



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

**I. AGENCY INFORMATION**

Date: 7/18/96

Agency name: **Alameda County-HazMat**  
 City/State/Zip: **Alameda CA 94502**  
 Responsible staff person: **Jennifer Eberle**

Address: **1131 Harbor Bay Pky**  
 Phone: **(510) 567-6700**  
 Title: **Hazardous Materials Spec.**

**II. CASE INFORMATION**

Site facility name: **Schoonbrood, Barbagelata/Former Service Station**  
 Site facility address: **554-27th St., Oakland CA 94612**  
 RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **3923**  
 URF filing date: **11/6/95** SWEEPS No: **N/A**

**Responsible Parties:** **Addresses:** **Phone Numbers:**  
 Joan Schoonbrood, PO Box 7442, Menlo Park CA 94026 (415-329-8784)

Angela Barbagelata, 15 San Lorenzo Way, San Francisco CA 94127

<b><u>Tank No:</u></b>	<b><u>Size in gal.:</u></b>	<b><u>Contents:</u></b>	<b><u>Closed in-place or removed?:</u></b>	<b><u>Date:</u></b>
1	6,000	gasoline	removed	1/18/95
2	8,000	gasoline	removed	1/18/95
3	10,000	gasoline	removed	1/18/95
4	250	waste oil	removed	1/18/95

**III. RELEASE AND SITE CHARACTERIZATION INFORMATION**

Cause and type of release: from waste oil tank  
 Site characterization complete? **YES**  
 Monitoring Wells installed? **YES** Number: **3**  
 Proper screened interval? **YES**  
 Highest Groundwater Elevation (GWE): **18.75'msl** Lowest GWE: **14.37'msl**  
 Flow direction: generally South; four quarters indicated **S, W-SW, S-SE, and S-SE**  
 Most sensitive current use: former gas station; site is reportedly zoned commercial  
 Are drinking water wells affected? **NO** Aquifer name:  
 Is surface water affected? **NO** Nearest affected SW name:  
 Off-site beneficial use impacts (addresses/locations):  
 Report(s) on file? **YES** Where is report(s) filed?  
**Alameda County, 1131 Harbor Bay Pky, Alameda Ca 94502**

## Leaking Underground Fuel Storage Tank Program

### Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount</u> <u>(include units)</u>	<u>Action (Treatment</u> <u>or Disposal w/destination)</u>	<u>Date</u>
Tank	8K and 10K USTs	disposed to Erickson (#95206023)	1/18/95
	6K and 250 gal USTs	disposed to Erickson (#95206022)	1/18/95
Tank Contents	600 gal	disposed to Alviso Oil (#93730217)	1/18/95
Soil	250 cubic yards	disposed to Vasco Rd. Landfill	3/13/95

### III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued) Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppb)	
	Before*	After**	Before#	After##
TPH (Gas)	8.1	120	910	150
TPH (Diesel)	74	420	NA	58
Benzene	0.011	0.059	6.8	ND
Toluene	0.009	0.050	9.5	ND
Ethylbenzene	0.043	0.032	8.5	0.73
Xylenes	0.092	0.140	19	ND
Total Oil & Grease	2500	6800		ND
Cadmium	4.1	NA		ND
Chromium	34	NA		27
Lead	17^	NA	ND	ND
Nickel	21	NA		45
Zinc	12	NA		88
HVOCs by 8010	ND	NA		NA

#### Comments (Depth of Remediation, etc.): see Tables 1-5

\* samples are from waste oil excavation; the fuel tank excavation was ND for TPHg and BTEX;

^ the fuel tank excavation had a maximum lead concentration of 27 ppm

\*\* samples are from waste oil excavation, subsequent to overexcavation, from bottom sample; metals were not analyzed because previous samples were <10 X the STLCs

# grab water sampled from fuel tank pit during tank removal

## MW3 results for TPHg, TPHd and BTEX; MW1 results for metals and TOG

## Leaking Underground Fuel Storage Tank Program

### 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: NA

Should corrective action be reviewed if land use changes? YES

Monitoring wells Decommissioned: ~~Not yet, waiting for RWQCB signoff.~~

Number Decommissioned: 3 Number Retained: 0

List enforcement actions taken: none

List enforcement actions rescinded: none

AE1  
closed  
wells  
12-9-96

### V. ADDITIONAL COMMENTS, DATA, ETC.

On 1/18/95, four USTs were removed; three contained gasoline (6,000-gallon, 8,000-gallon, and 10,000-gallon), and one contained waste oil (250 gallon). The fuel USTs were reportedly last used in the late 1970s by Mobil Oil, as per Joan Schoonbrood. The 6,000-gal UST had sizable holes on the end, as well as pitting. The 8,000-gal UST had no holes, but some rust on the top portion. The 10,000-gal UST had no holes, but some rust on the top portion. The waste oil UST had a hole on the bottom, and was rusted. The fuel USTs were nestled in one excavation, while the waste oil UST was separate. **See Figures 1 and 2.**

There was a strong hydrocarbon odor from the fuel tank pit during sampling of sidewalls (groundwater was present). Six sidewall samples were collected from the fuel pit (SW-E, SW-S, SW-NW, WF1, WF2, and WF3). One soil sample (WOB) was collected from the waste oil pit at 7'bgs, after removing apparently contaminated soil. Three samples were collected from the pump island (P1, P2, and P3). **See Figure 3.** A water sample was collected from the fuel tank excavation (W-1).

Results from the fuel tank pit indicated ND TPHg and ND BTEX. Total lead was present in concentrations ranging from 6.3 mg/kg to 27 mg/kg. This is consistent with geogenic material. **See Table 1.** Results from the waste oil pit indicated 8.1 mg/kg TPHg, 74 mg/kg TPHd, 0.011 mg/kg benzene, some TEX, 2,500 mg/kg total Oil and Grease, 4.1 mg/kg Cd, 34 mg/kg Cr, 17

## Leaking Underground Fuel Storage Tank Program

mg/kg Pb, 21 mg/kg Ni, 12 mg/kg Zn, and ND HVOCs (by 8010). See Table 3. Results from the pump island indicated mostly ND concentrations of TPHg and BTEX; one sample had 1.2 mg/kg TPHg, 0.0094 mg/kg ethylbenzene, and 0.011 mg/kg xylenes; all three samples contained total lead ranging from 6.1 mg/kg to 20 mg/kg. Results from the water sample from the fuel tank pit indicated 910 ug/L TPHg, 6.8 ug/L benzene, some TEX, and ND lead. See Table 5.

The gasoline tank excavation was backfilled on 2/7/95 with approximately 100 yd<sup>3</sup> of soil that had been removed from that excavation and stockpiled onsite. Another 250 yd<sup>3</sup> of soil removed during the waste oil tank excavation and overexcavation were offhauled on 3/13/95 to Vasco Rd Landfill in Livermore.

The waste oil pit was overexcavated on 2/8/95. Four confirmatory soil samples were collected from the sidewalls, and one from the bottom of the pit. Results indicated ND TPHg, TPHd, BTEX, and TOG on the sidewalls. The bottom sample was collected at approximately 10'bgs from sandy silt right above the groundwater; it contained 120 mg/kg TPHg, 420 mg/kg TPHd, 0.059 mg/kg benzene, some TEX, and 6,800 mg/kg TOG. See Table 6.

Three groundwater monitoring wells were installed in June 1995. See Figure 5. Water was encountered at approximately 10'bgs, and the wells were screened from 8' to 20'bgs. Soil samples were collected and analyzed at 6' and 11'bgs in each borehole. Results indicated ND TPHg, ND TPHd, and ND BTEX. Soil from MW1 was analyzed for Cd, Cr, Pb, and TOG, since MW1 was located at the edge of the waste oil excavation. Cd and Pb were below 10 X the STLCs, while Cr concentrations were above 10 x the STLC (77 and 87 mg/kg); TOG was ND. See Table 7.

Groundwater has been sampled for four consecutive quarters. See Tables 8 and 9. MW1 and MW2 have been ND for TPHg, TPHd, and BTEX. In addition, MW1 was ND for TOG, Cd, and Pb for four quarters; Cr, Ni, and Zn were present in concentrations below the respective MCLs. MW3 was ND for these constituents for the first two quarters, when the groundwater flow direction was S and W-SW. Results from the last two quarters in MW3 indicated the presence of TPHg, TPHd, and BTEX. Benzene was only present once in MW3, at a concentration of 30 ppb in March 1996; the subsequent quarter was ND. MW3 has generally been the downgradient well, MW2 the upgradient well, and MW1 should detect contamination from the waste oil pit, due to its proximity.

The single hit of 30 ppb benzene in groundwater was compared to the Tier 1 look up table in the American Society of Testing and Materials' (ASTM) "Risk Based Corrective Action Applied at Petroleum Release Sites," document E1739-95. The 30 ppb is less than the Risk Based Screening Level (RBSL) for the a) "groundwater to outdoor air" pathway, commercial scenario, 10-6 target level (5,340 ppb), and the b) "groundwater to indoor air" pathway, commercial scenario, 10-5 target level (210 ppb). However, 30 ppb is greater than the RBSL for the "groundwater to indoor air" pathway, residential scenario, 10-6 target levels (7 ppb). That means that if a residential unit were proposed for this site, the threat to human health should be re-evaluated.

## Leaking Underground Fuel Storage Tank Program

To summarize, the reasons that this case should be closed are as follows:

- \* The sources have been removed (four USTs and 250 cubic yards of contaminated soil);
- \* The site has been adequately characterized;
- \* All three wells have been ND for BTEX, TPHg and TPHd, with the exception of MW3;
- \* Groundwater in MW1 has been ND for TOG, Cd, and Pb, while Cr, Ni, and Zn concentrations were below the respective MCLs;
- \* There are no sensitive environmental receptors in the site vicinity (ie surface waters);
- \* Based on ASTM's "Risk Based Corrective Action Applied at Petroleum Release Sites," document E1739-95, there is no significant risk to human health using a commercial receptor scenario; and
- \* The closure letter will require a) agency notification if there is a proposal for a change in land use, site activity, or structural configuration of the site (ie basements in new buildings where none were before).

### VII. LOCAL AGENCY REPRESENTATIVE DATA

Name: Jennifer Eberle Title: Hazardous Materials Specialist  
Signature: *J Eberle* Date: 7-24-96

**Reviewed by**  
Name: eva chu Title: Hazardous Materials Specialist  
Signature: *eva chu* Date: 7-24-96

Name: Tom Peacock Title: LOP Manager  
Signature: *Tom Peacock* Date: 7-30-96

### VII. RWQCB NOTIFICATION

Date Submitted to RWQCB: 7-30-96 RWQCB Response: *Approved*  
RWQCB Staff Name: Kevin Graves Title: Associate Water Resources Control Engineer  
Date: *[Signature]* 10-10-96

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



October 17, 1996  
STID 3923

Joan Schoonbrood  
PO Box 7442  
Menlo Park CA 94026

Angela Barbagelata  
15 San Lorenzo Way  
San Francisco CA 94127

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

RE: former service station/vacant lot, 554-27th St., Oakland CA 94612

Dear Ms. Schoonbrood and Ms. Barbagelata,

This office is in the process of closing this case. The RWQCB has already signed off on the Case Closure Summary. Although groundwater sampled in the most recent quarter revealed residual amounts of groundwater contamination in one well (MW3)(150 ppb TPHg, 0.73 ppb ethylbenzene, and 58 ppb TPHd), benzene, toluene, and xylenes were ND. In addition, there is no significant threat to human health or the environment, and the monitoring wells will be destroyed. This letter is being sent to inform Zone 7 of the status of this case.

**Please contact me by telephone at least 2 business days in advance of the well destruction so that I may be present onsite, if my schedule allows. If you have any questions, please contact me at 510-567-6761.**

Sincerely,

Jennifer Eberle  
Hazardous Materials Specialist

cc: Bryan Campbell, All Environmental Inc., 3364 Mt. Diablo Blvd., Lafayette CA 94549  
Attn: Wyman Hong, Alameda County Flood Control District, Zone 7, Water Agency  
5997 Parkside Dr., Pleasanton CA 94588  
Jennifer Eberle/file

je.4013.zone7





DEPOSIT/REFUND PROJECT LISTING

Date 09/21/95

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Zip	Site Address	City	Facility Name	// Site#	// PayorList	/ Rcpt # List	Type List	# TANKS	INSP	DATE REC'D	DATE SITE COMPLETE
621	6161 Coliseum Way	Oaklan	Echo Sales	// 960	// 166-a	568860	R,	1	CL	04/26/90	11/01/94
621	6345 Coliseum Way	Oaklan	Consolidated Freight Ways	// 566	// 10-a	542366 "transfer to lop"	T,M,		BJ	06/09/89	
621	7000 Coliseum Way	Oaklan	Oak Alameda County Coliseum	// 2212	// 203-a	704413, 704412	R,I,	1	BJ	05/17/93	
621	8000 S. Coliseum Way	Oaklan	Malibu Grand Prix	// 438	// 822-c, 309-b, 285-a, 174-a	725658, 592367, 528838, 552948, 565612	M,T,R,T,M,R,	1	LS	02/21/89	
621	8099 S Coliseum Way	Oaklan	G M C Truck Center	// 2278	// 64-a	704478	T,R,	4	BC	07/26/93	08/16/93
621	7683 Earhart Rd	Oaklan	Airport Facility Lf 19/20	// 1737	// 239-a	612137	T,R,	2	BC	10/28/91	07/06/92
621	8900 Earhart Rd	Oaklan	Airport Facility L-311	// 681	// 206-a	552881	MOD,	2	BC	09/12/89	01/25/94
621	8300 Earhart Rd, - I-6	Oaklan	Port Of Oakland, N. Field	// 494	// 70-a	528894	R,T,	1	BC	04/03/89	
621	7200 Edgewater Dr	Oaklan	Grand Auto	// 1806	// 595-a	604806	T,M,		BC	02/04/92	07/06/92
621	7303 Edgewater Dr 7305	Oaklan	Port Of Oakland	// 3151	// 149-a	753013, 752551	A,M		ML	04/03/95	
621	7307 Edgewater Dr, # F	Oaklan	California Modern Express	// 201	// 96-a	524501,	R,	1	CL	06/16/88	10/24/94
621	30 Hegenberger Loop	Oaklan	Resolution Trust Corp.	// 1207	// 576-a	668807	R,	1	BJ	09/28/92	
621	124 Hegenberger Loop	Oaklan	Dolsby Inc.	// 704	// 264-a	752140, 552904	A,M,	2	ML	09/28/89	
621	160 Hegenberger Loop	Oaklan	Valley Automated Fuels	// 705	// 275-a	552905	I,		LS	09/28/89	09/04/90
621	20 Hegenberger Rd	Oaklan	Paramount Pest Control	// 6033	// 286-a	612033	R,T,	1	BC	08/07/91	02/21/92
621	265 Hegenberger Rd	Oaklan	Marriott Corp.	// 775	// 75-a	552975, 565610	T,R,R,	1	BC	11/30/89	07/17/92
621	280 Hegenberger Rd	Oaklan	W Vernon Bernard	// 156	// 97-a	505656	R,	1	CL	04/21/88	01/25/94
621	285 Hegenberger Rd	Oaklan	Shell Station #1085	// 14	// 46-c, 569-b, 76-a	604820, 612124,505514,	R,T,M,I,	1	CL	12/04/87	04/23/92
621	295 Hegenberger Rd	Oaklan	Pacific Bell	// 393	// 141-a	528793	R,T,	1	LS	01/09/89	
621	295 Hegenberger Rd	Oaklan	Rollins Leasing	// 907	// 137-a	568807	I,	1	BC	03/19/90	07/20/90
621	449 Hegenberger Rd	Oaklan	Unocal Station #5043	// 88	// 520-b, 76-a	704504, 592471, 592318, 505588, 568938	I,T,R,R,R,MO D,		CL	02/25/88	
621	451 Hegenberger Rd	Oaklan	Chevron U S A	// 432	// 119-a	528832	I,	1	LS	02/10/89	
621	460 Hegenberger Rd	Oaklan	Union Bank	// 2074	// 422-a	592489, 592489, 577074	M,T,I,T,	2	CC	10/05/90	
621	555 Hegenberger Rd	Oaklan	Caltrans	// 1225	// 111-a	668825	T,R,	4	BJ	10/19/92	09/07/93

TYPES: R - Removal I - Installation M - Mitigation MOD - Modification P - Penalty BP - Bldg.Permit W - Well Point Survey  
A - Above Ground Tank C - Closure In Place

STIU 3423  
JE  
Oakland 94612

GLORIA JOAN SCHOONBROOD  
Page 2

JUN 25 1996

with your first Reimbursement Request.

**YOU MUST SUBMIT A REIMBURSEMENT REQUEST PACKAGE BY  
September 25, 1996, OR SEND A WRITTEN UPDATE EXPLAINING:**

1. Status of cleanup to date.
2. Reason(s) why a reimbursement request has not been submitted.
3. Costs incurred to date for corrective action.
4. Projected date for submitting a reimbursement request.

We continuously review the status of all active claims. If you do not submit a reimbursement request or a written update by the date above, or fail to proceed with due diligence with the cleanup, we will take steps to withdraw your LOC.

If you have any questions regarding the enclosed package, please contact Cheryl Gordon at (916) 227-4539.

Sincerely,



Dave Deane, Manager  
UST Cleanup Fund Program

Enclosures

cc: Mr. Steve Morse  
RWQCB, Region 2  
2101 Webster St., Ste. 500  
Oakland, CA 94612

Mr. Thomas Peacock  
Alameda County EHD  
1131 Harbor Bay Pkway, 2nd Fl.  
Alameda, CA 94502-6577



Recycled Paper

*Our mission is to preserve and enhance the quality of California's water resources, and ensure their proper allocation and efficient use for the benefit of present and future generations.*



Cal/EPA

State Water  
Resources  
Control Board

Division of  
Clean Water  
Programs

Mailing Address:  
P.O. Box 944212  
Sacramento, CA  
94244-2120

2014 T Street,  
Suite 130  
Sacramento, CA  
95814  
(916) 227-4307  
FAX (916) 227-4530

World Wide Web:  
<http://www.swrcb.ca.gov/~cwphome/fundhome.htm>



Pete Wilson  
Governor

JUN 25 1996

GLORIA JOAN SCHOONBROOD  
935 EVELYN ST  
MENLO PARK, CA 94025

UNDERGROUND STORAGE TANK CLEANUP FUND, CLAIM NO. 010355, FOR  
SITE ADDRESS: 554 27TH ST, OAKLAND 94612

The State Water Resources Control Board (State Board) takes pleasure in issuing the attached Letter of Commitment (LOC) in an amount not to exceed **\$35,000**. This LOC is based upon our review of the corrective action costs incurred to date and your application received on June 29, 1995 and may be modified by the State Board by an amended LOC.

**Read the terms and conditions listed in the LOC. The State Board will take steps to withdraw this LOC after 90 calendar days from the date of this transmittal letter unless you proceed with due diligence with your cleanup effort.** This means that you must take positive, concrete steps to ensure that corrective action is proceeding with all due speed. For example, if you have not started your cleanup effort, you must obtain three bids and sign a contract with one of these bidders within 90 calendar days. If your cleanup effort has already started and was delayed, you must resume the expenditure of funds to ensure that your cleanup is proceeding in an expeditious manner. You are reminded that you must comply with all regulatory agency time schedules and requirements.

This package includes the following:

- "Reimbursement Request Instructions" package. **Retain this package for future reimbursement requests.** These instructions must be followed when seeking reimbursement for corrective action costs incurred after January 1, 1988. Included in the instruction package are samples of completed Reimbursement Request forms and Spreadsheets.
- "Bid Summary-Sheet to list information on bids received which **must be completed and returned.**
- "Certification of Non-Recovery From Other Sources" which **must be returned before any reimbursements can be made.**
- "Reimbursement Request" forms which you **must use to request reimbursement of costs incurred.**
- "Spreadsheet" forms which you **must use in conjunction with your Reimbursement Request.**
- "Claimant Data Record" (Std. Form 204) which **must be completed and returned**



*Our mission is to preserve and enhance the quality of California's water resources, and ensure their proper allocation and efficient use for the benefit of present and future generations.*

# LETTER OF COMMITMENT FOR REIMBURSEMENT OF COSTS

CLAIM NO: 010355

AMENDMENT NO: 0

CLAIMANT: GLORIA JOAN SCHOONBROOD

BALANCE FORWARD: \$0

CO-PAYEE: NONE

THIS AMOUNT: \$35,000

JOINT CLAIMANT: a. ANGELA BARBAGELATA

NEW BALANCE: \$35,000

CLAIMANT ADDRESS: 935 EVELYN ST  
MENLO PARK, CA 94025

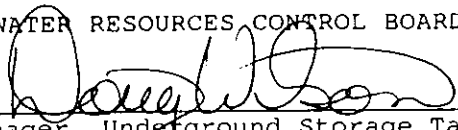
TAX ID/SSA NO: 536-28-0597 a. 573-26-7314

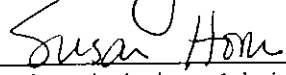
Subject to availability of funds, the State Water Resources Control Board (SWRCB) agrees to reimburse GLORIA JOAN SCHOONBROOD (Claimant) for eligible corrective action costs at 556 MERRIMAC-OAKLAND (LOT) 554 27TH ST, OAKLAND, CA (Site). The commitment reflected by this Letter is subject to all of the following terms and conditions:

1. Reimbursement shall not exceed \$35,000 unless this amount is subsequently modified in writing by an amended Letter of Commitment.
2. The obligation to pay any sum under this Letter of Commitment is contingent upon availability of funds. In the event that sufficient funds are not available for reasons beyond the reasonable control of the SWRCB, the SWRCB shall not be obligated to make any disbursements hereunder. If any disbursements otherwise due under this Letter of Commitment are deferred because of unavailability of funds, such disbursements will promptly be made when sufficient funds do become available. Nothing herein shall be construed to provide the Claimant with a right of priority for disbursement over any other claimant who has a similar Letter of Commitment.
3. All costs for which reimbursement is sought must be eligible for reimbursement and the Claimant must be the person entitled to reimbursement thereof.
4. Claimant must at all times be in compliance with all applicable state laws, rules and regulations and with all terms, conditions, and commitments contained in the Claimant's Application and any supporting documents or in any payment requests submitted by the Claimant.
5. No disbursement under this Letter of Commitment will be made except upon receipt of acceptable Standard Form Payment Requests duly executed by or on behalf of the Claimant. All Payment Requests must be executed by the Claimant or a duly authorized representative who has been approved by the Division of Clean Water Programs.
6. Any and all disbursements payable under this Letter of Commitment may be withheld if the Claimant is not in compliance with the provisions of Paragraph 5 above.
7. Neither this Letter of Commitment nor any right thereunder is assignable by the Claimant without the written consent of the SWRCB. In the event of any such assignment, the rights of the assignee shall be subject to all terms and conditions set forth in this Letter of Commitment and the SWRCB's consent.
8. This Letter of Commitment may be withdrawn at any time by the SWRCB if completion of corrective action is not performed with reasonable diligence.

IN WITNESS WHEREOF, this Letter of Commitment has been issued by the SWRCB this 6th day of June, 1996.

STATE WATER RESOURCES CONTROL BOARD

BY   
Manager, Underground Storage Tank Cleanup Fund Program

BY   
Chief, Division Administrative Services

STATE USE:  
CALSTARS CODING:  
0550 - 569.02 - 30530

\$ \_\_\_\_\_

McCAMPBELL ANALYTICAL INC.	110 2nd Avenue South, #D7, Pacheco, CA 94553 Tele: 510-798-1620 Fax 510-798-1622
----------------------------	-------------------------------------------------------------------------------------

Date: 7/16/96

ATTN: Terrijean Ebert, Alameda Co /  
Bryan Campbell, ALL Environ.

Message: Terrijean found a units  
mistake and was on our LUFT page  
of this report (mg/kg -> mg/l), and here  
is the corrected page. Thanks for catching  
it. Our new generation of forms has  
eliminated this mistake. Passed to Alameda Co.  
& ALL Environ.

FROM: \_\_\_\_\_

Number of pages faxed including this one: \_\_\_\_\_

# CHAIN OF CUSTODY RECORD

TURN AROUND TIME:  DAY  24 HOUR  48 HOUR  OTHER

REPORT TO: *Gregory Campbell Inc* BILL TO: *Gregory Campbell Inc*

COMPANY: *All Environmental Inc*

PROJECT NUMBER: *1243*

PROJECT LOCATION: *Dorland*

SAMPLER SIGNATURE: *[Signature]*

PROJECT NAME:

TEL: *510-283-6000* FAX: *[blank]*

REPORT TO: *Gregory Campbell Inc*

PROJECT LOCATION: *Dorland*

SAMPLER SIGNATURE: *[Signature]*

PROJECT NAME:

TEL: *510-283-6000* FAX: *[blank]*

REPORT TO: *Gregory Campbell Inc*

PROJECT LOCATION: *Dorland*

SAMPLER SIGNATURE: *[Signature]*

PROJECT NAME:

TEL: *510-283-6000* FAX: *[blank]*

REPORT TO: *Gregory Campbell Inc*

PROJECT LOCATION: *Dorland*

SAMPLER SIGNATURE: *[Signature]*

PROJECT NAME:

TEL: *510-283-6000* FAX: *[blank]*

REPORT TO: *Gregory Campbell Inc*

PROJECT LOCATION: *Dorland*

SAMPLER SIGNATURE: *[Signature]*

PROJECT NAME:

TEL: *510-283-6000* FAX: *[blank]*

REPORT TO: *Gregory Campbell Inc*

PROJECT LOCATION: *Dorland*

SAMPLER SIGNATURE: *[Signature]*

PROJECT NAME:

RECEIVED BY	DATE	TIME
<i>Gregory Campbell</i>	<i>6/5</i>	<i>6:32</i>
RECEIVED BY	DATE	TIME
RECEIVED BY	DATE	TIME
RECEIVED BY	DATE	TIME

SAMPLE ID	LOCATION	SAMPLING		DATE	TIME	# CONTAINERS	TYPE CONTAINERS	MATRIX		METHOD PRESERVED
		DATE	TIME					WATER	OTHER	
<i>MW-1</i>		<i>6/5</i>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<i>MW-2</i>								<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<i>MW-3</i>								<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

ANALYSIS REQUEST
BCI
ORGANIC LEAD
LEAD (7240/7421/2392/6010)
EPA - Priority Pollutant Metals
CAM - 17 Metals
EPA 625/8270
EPA 621/8240/8260
EPA 608/8080 - PCBs Dry
EPA 608/8080
EPA 602/8020
EPA 602/8020
Total Petroleum Hydrocarbons (4181)
Total Petroleum DI & Grease (5520 E/F/5530 B/M)
THP as Diesel (8015)
ATEX & TPH as Gasoline (602/8020 & 8015)

REMARKS: *GOOD CONDITION HEAD SPACE ABSENT*

REMARKS: *GOOD CONDITION HEAD SPACE ABSENT*

RECEIVED BY	DATE	TIME
<i>Gregory Campbell</i>	<i>6/5</i>	<i>6:32</i>
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<i>Gregory Campbell</i>	<i>6/5</i>	<i>6:32</i>
RECEIVED BY	DATE	TIME
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COMMENTS: *[Redacted]*

COMMENTS: *[Redacted]*



J. Eberle

Site Summary STID 3923  
Schoonbrood & Barbagelata/former service station  
554-27th St.  
Oak 612

- 1/18/95 Removal of 6K, 8K, and 10K gasoline USTs, and one 250-gallon waste oil UST. See field report.
- 1/19/95 Drafted the NOR.
- 1/24/95 Received lab report. 1) Let's see if lab can tell us the value for 5520 F only; just look at their calculations and see what the value for 5520 F is. After all, the sample below the waste oil UST did not look like it had 2500 ppm O&G.  
2) Can they do WET for benzene? Yes, and compare it to the value (0.5 mg/L) in Table 1, Sect. 66261.24 of 22CCR. If it's below 0.5 mg/L, then reuse the stockpile. OK Jose?  
3) Yes, we will need a gw invest. bec we got 910 ppb TPHg and 6.8 ppb benzene in water. We need valid, dependable data to compare to the risk-based screening values.
- 1/25/95 Spoke w/Dusty: lab results (benzene) ready Thur at 8 am. Wants to backfill same day. . . later tel con: we forgot to submit sample NW wall. Charly will go out today and take it. Won't be ready to backfill Thur. Spoke w/Charley re this.
- 1/26/95 REceived faxed lab report fm AEI: TCLP for benzene was ND and 1.4ppb (reg limit is 500 ppb or .5ppm). That NW wall sample, taken on 1/25, was ND for TPHg and BTEX. Told Dusty OK to backfill w/existing SP. But we'll overex the w.oil pit bec. the reanalysis for WO-B sample was surprisingly high: 2000 ppm O&G by 5520F; he'll fax that lab report. Got it, but it says 5520 D. So I called the lab; David Duong said it was a typo, and will have Victor retype and send a revised lab report to AEI. Fine. He'll send lead results next. Total lead in all fuel pit samples was <50ppm (highest hit 27ppm); ND in water, and hits in waste oil stockpile (up to 85 ppm), but only 17 ppm in w.oil bottom sample. Also hits over 10X the STLC in w.oil stockpile for Cd and Cr.
- 2/2/95 Phoned AEI: spoke w/Charlie Kissick. They did NOT backfill fuel pit. RP has held it off; it's another \$1,000 probably. What should we resample w.oil pit for? Just O&G, TPHg, TPHd, and BTEX. We got ND on 8010 for WO-B; please send results. This will be \$168 per sample. They MAY resample on 2/3. Told him I need to know today if this is the case.



- 2/14/95 Reviewed 2/14/95 fax fm AEI. Results from overex of waste oil UST: ND sidewalls, but some hits on bottom at approx 10'bgs: 120 ppm TPHg, 420 ppm TPHd, .059 ppm benzene, 6,800 ppm O&G (5520 D&F). Keep in mind that this bottom sample was taken AT the capillary fringe; we finally excavated TO gw. So, they may backfill with clean fill (and can use soil from TSTKP 2 and 3). Phoned AEI: spoke w/Charlie. Which is the TSTKP? from above the green zone. STKP 1-4 and 5-8 were from the other stockpile (perceived as dirty). He wants to backfill w/the TSTKP samples? Next step would be Mws. Where does CalTrans dewater (for 980)? Dusty is ready to backfill on 2/16. Discussed w/Susan. She's using different cleanup levels: 100 for TPHd, 10 for TPHg, 1,000 for O&G, 1 for BTEX (cumulative); keep in mind this is for Emeryville. So, it's ok to backfill w/the TSTKP stockpile. They'll monitor gw in the future. And these concs are way less than the concs left in place (bottom sample).
- 2/28/95 RP Joan Schoonbrood phoned: 415-233-0310 Both pits were backfilled. Still a SP onsite that needs to be disposed. She's getting bids for disposal, but needs to get the lab report to present to contractors. She got draft TR; I got it too. She's applying to the CleanUp Fund. Explained to her that AlCo oversight costs are reimbursable by the Fund.
- 3/3/95 Reviewed 2/22/95 UST Removal Report, by AEI. Error on p. 2: they said no holes in all 3 fuel USTs, but I found "sizable holes on end" of 6K UST. Fuel UST pit: all ND TPHg, ND BTEX, and lead was <10X the STLC. **AEI is preparing a separate report re the overex of the w.oil pit.**
- 5/25/95 Copied TR report and MW wp for Ken Floyd at Excel Transformer, 520-27th St., Oakland 94612 (444-8900), upon his request.
- 6/1/95 Reviewed 5/15/95 "GW Invest. WP" by AEI. Includes 3 Mws. Wp is basically good, but approval will be conditional. Left mess for M. Killoran at AEI.
- 6/5/95 spoke w/M. Killoran: discussed the corrections that need to be made to wp. Hell fax over a revised wp.
- 6/6/95 Reviewed 6/5 faxes and spoke w/MK. He still needs to revise wp. **Wrote ltr to RP**

- 6/22/95 Reviewed 5/3/95 "Overex of Contam Soil Report" by AEI. This report documents that 250 yd<sup>3</sup> soil was offhauled to Vasco Rd. Landfill in Livermore on 3/13/95. 100 yd<sup>3</sup> soil was reused as backfill. This soil was ND for TPHg and BTEX, but had 71 TPHd and 39 TOG. See pg 5.
- 8/25/95 Reviewed 8/15/95 "Subsurface Invest. And QR" by AEI. 3 Mws installed on 6/22/95. **GW sampled on 7/10/95 flowed South at 0.004 ft/ft; this makes MW3 DG of fuel tanks, MW1 CG of waste oil tank, and MW2 the UG well. But since the gradient is relatively flat, there would probably be dispersion of contaminants. We're missing the lab report for Hcs in the Mws.** The soil results were all ND except slightly elevated concs of Cr in MW1; however, the gw in MW1 was ND for Cr (and other metals). The gw was also all ND! Alright!

Phoned AEI: spoke w/Mike: OK to delete metals in gw. He'll fax lab report

- 9/20/95 Tom spoke w/Schoonbrood. New address; need UST leak report.

11/16/95 received QR.

- 1/29/96 Reviewed 11/10/95 QR by AEI. **GW sampled 10/28/95 flowed W-SW at 0.03 ft/ft, and was ND.** This is the 2nd Q event. Next QM in Jan 96.

- 3/19/96 spoke w/Jenefer: Got analytical for first QS back on 3/5. They (RP) want to do 2 more Qs. But they got 2300 ppb TPHg and 1100 ppb TPHd and 30 ppb benzene (MW3). Hits for the first time. MW3 is the UG well. She will fax the results. UG source? Don't know of any USTs. Hmmm. **GW sampled on 3/5/96 flowed SW at ? Gradient. Will we need a 4th well, DG of former USTs? Meaning, in the correct DG direction? But direction has changed all 3 events.**

Joe Neely of enviros wants to know the gradient and direction here for his site at 2703 MLK (corner of 27th), the Auto Tech West site (former Shell).

- 4/19/96 Reviewed 3/28/96 QR by AEI. **GW sampled on 3/5/96 flowed S-SE (change in flow direction). First time that MW3 has hits: 2300 ppb TPHg, 30 ppb benzene, 1100 ppb TPHd. This makes MW3 directly DG of the former USTs for the first time. Approx 40' DG. Metals present in MW1 for the first time: 14 ppb Cr, and 38 ppb Zn.**

7/16/96 Bryan Campbell of AEI phoned: RP wants closure.

Reviewed 6/26/96 QR by AEI. **GW sampled on 6/5/96 flowed S-SE at 0.004 ft/ft.** This makes MW3 DG of the former fuel USTs. GW was ND for all COCs in MW1 and MW2; (MW1 had some hits of metals). MW3 had ND BTX, and low hits of TPHg, E, and TPHd. Noted the lab report has an error in the units for water and soil samples. Looks like they just reversed them. Phoned lab and spoke w/Dave Keeler at McCampbell; he said they made a mistake, and will fax me the correct lab sheets, and will call the client (AEI) also (for this Q and last Q). **AEI reported the concs wrong in their tabulated data. They reported in the wrong units; see lab sheets.**

Compared 30 ppb benzene (gw hit last Q) to RBCA ASTM Tier 1: for outdoor air, no problem. For indoor air, it's ok w/commercial 10-5, but not ok for residential. **But we probably cannot use Tier 1 anyway bec the DTW is only 8' here. Wrong. Static DTW is 8', but first encountered gw is 10'. So it's ok.**

Must compare metals concs in gw to standards. Then do Closure Summary. Max Cr is 27 ppb; MCL is 50 ppb = ok. Max Ni is 45 ppb; MCL is proposed as 100 ppb = ok. Max Zn is 88 ppb; MCL is 5,000 ppb = ok.

**Began WROTE CLOSURE SUMMARY**

7/19/96 phoned Joan Schoonbrood: Has letter fm a property evaluator who spoke w/the City. The portion along 27th St. is zoned C45 commercial, while the back portion is R80 high density residential. Does she have a site map to scale, showing these portions? She is looking for one. She is currently disabled, but thinks she had a map at one time. But she can copy me the letter. Told her I'd wait for her submittal.

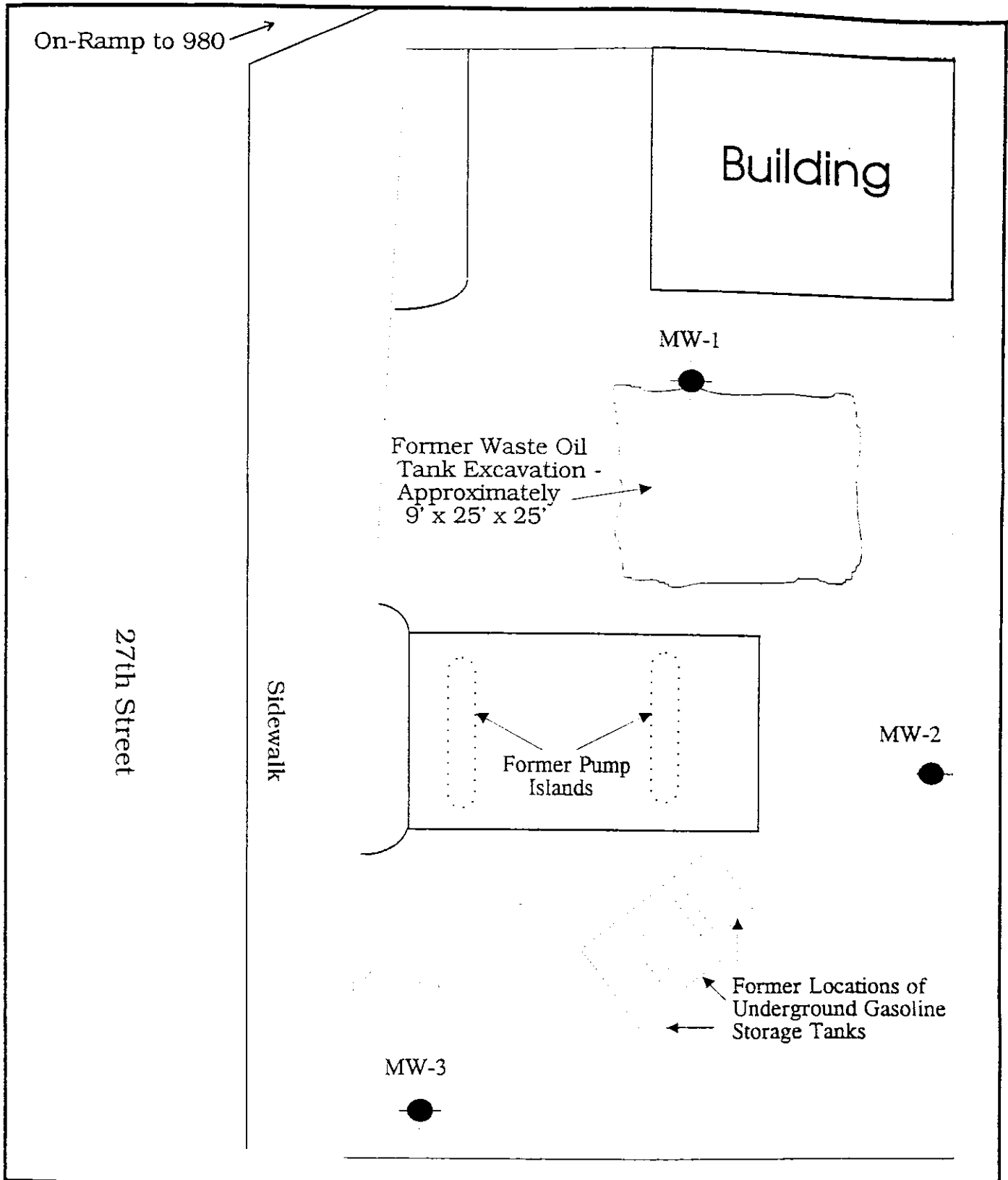
Finished closure summary.

10/16/96 Phoned RP and AEI: left messages, saying the Mws are ready to be closed. OK to pressure grout.

10/17/96 wrote ltr to RPs.

1/29/97 Reviewed 1/14/97 "GW MW Site Clos" rpt. Wrote case closure letter.





MW-1

● Monitoring Well Location

N

Scale: 1" = 20'

**ALL ENVIRONMENTAL, INC.**  
 3364 MT. DIABLO BOULEVARD, LAFAYETTE, CA

DRAWN BY:	REVISD BY:
DATE: JUNE, 1996	APPROVED BY:

**SITE PLAN**

554 27th Street, Oakland	FIGURE 2
--------------------------	----------

Member, American Institute  
of Real Estate Appraisers



Senior Real Property Appraiser  
Society of Real Estate Appraisers

July 18, 1989

*See  
PAGE 2+3*

Mr. John J. Barbagelata  
314 West Portal  
San Francisco, California 94127

Re: Property Valuation  
Northeast Corner 27th Street  
and Northgate Avenue  
Oakland, California

Dear Mr. Barbagelata:

In response to your request, we have made an investigation and analysis of the property captioned above to estimate its present market value. It is our conclusion that the present market value of the property is in the range of \$310,000 to \$325,000. This represents the value of 14,162 square feet of land area only. The existing improvements have no net value.

The property is identified in the records of the County Assessor as Parcel 9-689-40-1. The assessed valuation for 1988/89 tax year is \$100,589. The property tax amounts to \$1,306.60.

As used in this report, Market Value may be defined as:

The highest price on the date of valuation that would be agreed to by a seller, being willing to sell but under no particular or urgent necessity for so doing, nor obliged to sell, and a buyer, being ready, willing, and able to buy but under no particular necessity for so doing, each dealing with the other with full knowledge of all the uses and purposes for which the property is reasonably adaptable and available.

(Section 1263.320, Code of Civil Procedure)

Area and Neighborhood Description

The subject property is located in the area east of the Grove Shafter Freeway (I-980), just to the east of the area generally referred to as the West Oakland Development Area. Because of its location to the east of the freeway, this parcel

Mr. John J. Barbagelata  
July 18, 1989  
Page 2

is more affected by the commercial development of the Telegraph Avenue corridor which is experiencing a quickening of development at the present time. The auto row along Broadway is expanding laterally on major cross-streets such as 27th Street, and this will also have favorable impact. The subject property is just across 27th Street from the Sears Department Store and parking garage and benefits from the traffic and patronage at this major retail store. The City of Oakland is developing an ambitious plan for the revitalization of West Oakland west of the I-980 Freeway and the revitalization of this depressed area will, in the long run, favorably affect the value of the subject parcel.

#### Subject Property Description

The subject property is located on the northeast corner of 27th Street and Northgate Avenue, one block to the west of Telegraph Avenue. The property is bounded on the south by 27th Street and on the west by the on-ramp to Freeway I-980. The traffic at this intersection is controlled by a traffic signal. The subject site has 160 feet frontage on 27th Street and although the parcel does extend to Merrimac Street in the rear, access to this narrow residential street is currently prevented by a masonry wall along the entire Merrimac Street frontage. Access to the subject parcel is somewhat limited in that only traffic traveling west on 27th Street has direct access to the property. While access is limited, the visibility of the subject from this busy intersection is very good and is not obstructed by the landscaping in the median that divides 27th Street.

The subject parcel is paved and is improved with an office and service building, service islands, and water and air facilities remaining from the site's previous use as a Mobil gas station. The property still contains the underground tanks that were also a part of this service station operation. It should be noted that these tanks must be removed before any new use can be made of the site. Tank removal will also entail soils testing around the tanks to determine if any petroleum products have leaked into the soil. For purposes of this valuation, we assume that the tanks have been removed and no toxic conditions exist in the soil. Therefore, the cost of such work should be deducted from the value reported herein. The station building and other improvements have been vandalized and are in poor condition and are considered to have no present utility or value.

#### Zoning and Highest and Best Use

The subject property is zoned C-45, Community Shopping Commercial, on its 27th Street frontage to a depth of approximately 20 feet and R-80, High-Density Residential, for the

Mr. John J. Barbagelata  
July 18, 1989  
Page 3

balance. The C-45 District permits typical commercial sales and service uses, and, with a conditional use permit, automotive-related uses are allowed. The R-80 District allows multi-residential units as a primary use, but also permits limited commercial uses with a conditional use permit. The R-80 regulations also state that activities that are permitted or conditionally permitted in an adjacent zone will be considered under the conditional use process. In discussions with the Zoning Department of the City of Oakland regarding this location, the City personnel stated that given this parcel's previous commercial use, a well conceived, attractive plan for a variety of commercial uses would probably be looked on favorably by the Planning Commission. While a high-density residential building should not be ruled out as a possible use, the site would require special construction techniques to minimize the traffic noise from the nearby freeway. Because this property is located on a busy thoroughfare, we conclude that the highest and best use would be an automotive related specialty commercial operation such as a tire outlet, a car stereo service store, or a used car lot. These latter uses would, of course, be contingent upon obtaining a conditional use permit.

#### Property Valuation

The valuation of the subject property is based upon market data comparison with other lots in the general area which have sold in recent years. We have investigated a number of sales transactions and selected six land sales as the best indicators of the value of the subject property. The sales are set forth in tabular form at the end of this letter and a map is included showing the locations of the sale properties in relation to the subject property. The sales are described briefly in the following paragraphs.

Sale 1 is located on 23rd Street, one-half block west of Telegraph Avenue and is zoned C-45. Although the sales price did include two residential structures in fair to good condition, the stated use of the land, for construction of 61 low to moderate income apartments, indicates the price the buyer was willing to pay for this location. This sale should be adjusted upward for time and location.

Sale 2 is one block east of Sale 1, one-half block east of Telegraph Avenue. This level, paved all-day parking facility was purchased by a speculative investor for future appreciation. The property had previously sold in May 1987 for \$270,000 in an estate sale. Although zoned C-60 and located only one block from Broadway and from Grand Avenue, this property is not located on a busy thoroughfare and therefore should be adjusted upward for the subject's more valuable location.



THOMAS E. DUM REAL ESTATE APPRAISERS, INC.  
948 HILLDALE AVENUE, BERKELEY, CALIFORNIA 94708  
(415) 526-0356 FAX (415) 526-6561

FILE

February 5, 1991

Mr. Dene Ogden, MAI  
Dene Ogden Real Property Valuation  
3661 Grand Ave., Suite 102  
Oakland, CA 94610

SUBJECT: 554 27th Street  
Oakland, California

Enclosed are the land sales that I will review and consider for the above property. I have not yet field checked these sales as I am waiting for your sales as we are supposed to have an interchange of data before starting our valuation. Here are some facts I came up with on this property.

1. Land size:


Main Parcel	91.20 + 92.91 / 2 x 160	=	14,729sf
Long Slim Parcel	23.25 + 14.43 / 2 x 160	=	<u>3,014sf</u>
			17,743sf

2. Zoning: I checked with Jason Madani at City of Oakland. The narrow front strip of approximately 3,000sf is zoned C40 and the main parcel is zoned R80. He stated that in 1979 there was a minor use permit granted to use the property for car rentals. However, if the property was closed for more than one year they must obtain a use permit. He said that for commercial use they would need one of the following:

1. Rezone the R80 to change to C40.
2. Apply for a major variance to use for C40.

If you have questions on the above, give me a call. Please send me your comparables and after field checking all the area we can proceed on the valuation.

Respectfully,

  
Thomas E. Dum

cc: Neal McGettigan, Esq.

NOTICE OF FINDINGS OF APPRAISERS

FAIR MARKET VALUE  
554 - 27th Street  
NE Corner 27th St. & Northgate Ave.  
Oakland, California  
APN 9-689-40-1

Gloria Joan Schoonbrood  
Seller

---

John J. Barbagelata  
Angela Barbagelata  
Buyers

---

Thomas E. Dum MAI, appraiser for the seller, and Dene Ogden MAI, appraiser for the buyers, were requested to determine the present market value of the above-captioned property. The appraisers exchanged factual and market data and then met and conferred on March 1, 1991. After extensive review of pertinent data, the appraisers concurred in the following facts and conclusions:

- 1) The total site area is 14,162 square feet.
- 2) The front section of the site is zoned C-45 and the larger rear section is zoned R-80. It is probable that a Conditional Use Permit could be obtained to allow automotive-related commercial use of the site provided access is limited to 27th Street only.
- 3) The total site value, after removal of underground tanks and related soil or water contamination, if any, is \$25.00 per square foot or:  
$$14,162 \text{ sq. ft. @ } \$25.00 = \$354,050$$
- 4) The actual cost of tank removal and contamination clean-up, if any, should be deducted from the total value shown above.

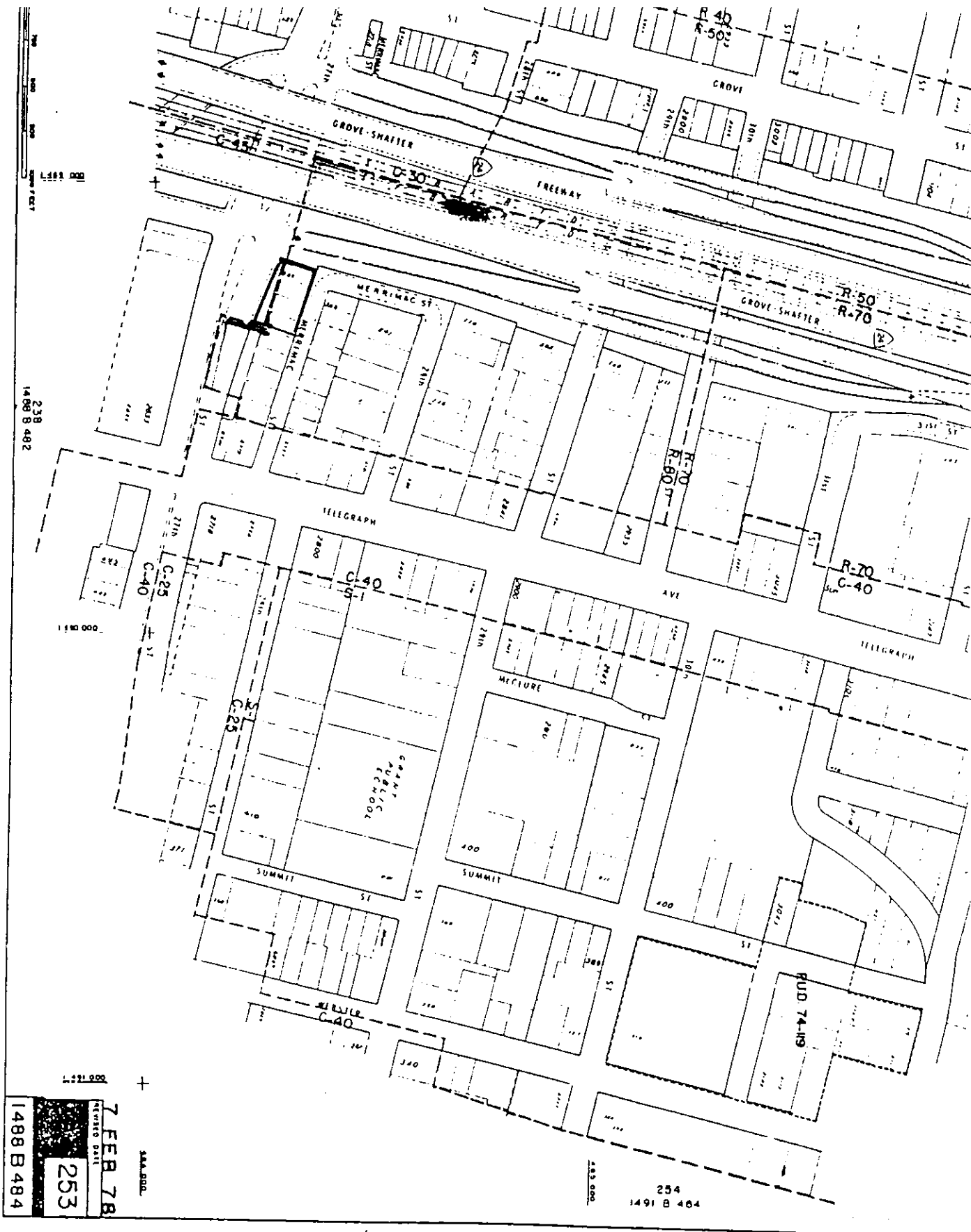
All executed copies of this Notice of Findings shall be considered counterpart originals.

3/15/91  
Date

Thomas E. Dum  
Thomas E. Dum, MAI

3/15/91  
Date

Dene Ogden  
Dene Ogden, MAI



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238  
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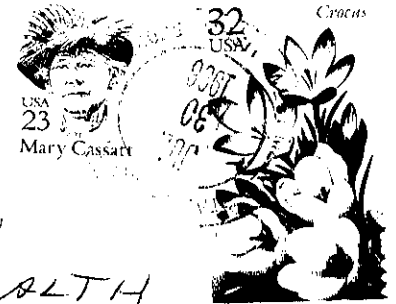
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SAA, BDD.

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 1491 B 464

EXHIBIT

Schoontjood  
935 Evelyn ST  
Menlo Park CA  
94025



ALAMEDA CITY ENVIRO. HEALTH  
1131 HARBOR BAY PARKWAY  
2ND FLOOR

ALAMEDA, CA 94502

ATTN  
JENNIFER FERLE

January 14, 1997

**GROUNDWATER MONITORING WELL  
SITE CLOSURE**

554 27th Street  
Oakland, California

1-14-97

Project No. 1243

Prepared For

Ms. Joan Schoonbrood  
935 Evelyn Street  
Menlo Park, CA 94025

and

Angela Barbagelata  
15 San Lorenzo Way  
San Francisco, CA 94127

Prepared By:

**All Environmental, Inc.**  
3364 Mt. Diablo Boulevard  
Lafayette, CA 94549  
(800) 801-3224

**AEI**

# ALL ENVIRONMENTAL, INC.

Environmental Engineering & Construction

ENVIRONMENTAL  
PROTECTION

97 JAN 28 AM 8:36

January 24, 1996  
Job No. 1243

Ms. Joan Schoonbrood  
935 Evelyn Street  
Menlo Park, CA 94025

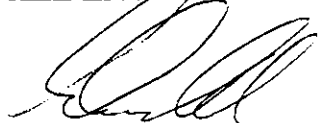
**Subject: Groundwater Monitoring Well Site Closure**  
554 27th Street, Oakland, California

Dear Ms. Schoonbrood:

Enclosed is one copy of the Groundwater Monitoring Well Site Closure report for the property referenced above. A copy of this report has also been sent to the persons listed below.

If you have any questions or comments regarding the findings presented in this report, please call me at (510) 283-6000.

Sincerely,  
**ALL ENVIRONMENTAL, INC.**



Bryan Campbell  
Project Geologist

cc: Angela Barbagelata, 15 San Lorenzo Way, San Francisco, CA 94127

Ms. Jennifer Eberle, Alameda County Health Care Services Agency,  
1131 Harbor Way Parkway, 2nd Floor, Alameda, CA 94502-6577

---

Corporate Headquarters:

3364 Mt. Diablo Blvd.  
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Fax: (916) 424-0182

Los Angeles Office:

111 N. Sepulveda Blvd., #250  
Manhattan Beach, CA 90266  
Phone: (310) 328-8878  
Fax: (310) 798-2841

**TABLE OF CONTENTS**

1.0 INTRODUCTION ..... 1

2.0 SITE DESCRIPTION AND BACKGROUND..... 1

3.0 PERMITS..... 2

4.0 WELL DESTRUCTION ..... 2

5.0 CONCLUSIONS ..... 2

6.0 REPORT LIMITATIONS AND SIGNATURES..... 3

**LIST OF FIGURES**

FIGURE 1	SITE LOCATION MAP
FIGURE 2:	SITE PLAN

**LIST OF APPENDICES**

APPENDIX A:	PERMITS
-------------	---------

## **1.0 INTRODUCTION**

All Environmental Inc. (AEI) has prepared this report on behalf of Ms. Joan Schoonbrood and Ms. Angela Barbagelata, in response to their request to destroy three groundwater monitoring wells located at 554 27th Street in Oakland, California. This report describes activities required by the Alameda County Health Care Services Agency (ACHCSA) and Zone 7 Water Agency in order to properly destroy three existing groundwater monitoring wells and thereby grant closure of groundwater monitoring activities at the site. On October 17, 1996, Ms. Jennifer Eberle, Hazardous Materials Specialist with the ACHCSA, suspended any further groundwater monitoring activities after four consecutive episodes of quarterly groundwater monitoring yielded only low levels of groundwater contamination. Prior to the issuance of final closure for the site, the ACHCSA requested that the three on-site monitoring wells be destroyed. This report outlines the well destruction activities performed on December 9, 1996, at the request of ACHCSA.

## **2.0 SITE DESCRIPTION AND BACKGROUND**

The site is located in a commercial zone at 554 27th Street in Oakland, California, and is presently vacant. Refer to Figure 1: Site Location Map. The topography of the site is relatively flat, and slopes gently toward San Francisco Bay, located approximately 1.7 miles to the west.

Four underground storage tanks were removed from the property by AEI on January 18, 1995. Refer to Figure 2: Site Plan. The underground storage tanks included: one 6000-gallon gasoline, one 8,000-gallon gasoline, one 10,000-gallon gasoline, and one 500-gallon waste oil.

In February, 1995 AEI excavated approximately 350 cubic yards of soil from the site. The levels of contamination in soil samples collected from below the gasoline tank excavation and dispenser islands were found to be low. However, levels of contamination in soil samples from the waste oil tank excavation and stockpile were found to be moderate to high, with as much as 36,000 ppm Total Oil & Grease (TOG), and 29 ppb of benzene.

AEI drilled three soil borings and converted each boring into a groundwater monitoring well on June 22, 1995. This subsurface investigation included logging borings under the supervision of a Registered Professional Engineer, soil sampling and analyses, well development, and groundwater sampling and analyses. Four episodes of groundwater were subsequently conducted by AEI between July, 1995 through June, 1996. The most recent groundwater sampling episode of June, 1996, indicated concentrations of 150 ppb TPH as gasoline, 58 ppb TPH as diesel, 0.73 ppb ethylbenzene, and concentrations of LUFT Metals below 0.1 ppb. Levels of benzene, toluene, and total xylenes were recorded below the detection limit.



### **3.0 PERMITS**

On October 10, 1996, Mr. Wyman Hong of the Zone 7 Water Agency issued Drilling Permit Number 96878 to destroy the three on-site groundwater monitoring well via pressure grouting. Refer to Figure 2: Site Plan. A copy of the permit is included in Appendix A: Permits. Ms. Jennifer Eberle of the ACHCSA, and the property owners were notified in advance of the time frame for the well destruction activities.

### **4.0 WELL DESTRUCTION**

On December 9, 1996, AEI mobilized on-site for the well destruction. The well box of each well was removed and the well was pressure grouted with neat cement slurry. The well was abandoned by filling it under pressure with neat cement slurry from the bottom of the boring to the ground surface. The grout material shrank as it cured, and concrete material was used later to "top off" the boring, bringing it up to surface grade.

### **5.0 CONCLUSIONS**

On December 9, 1996, AEI destroyed three groundwater monitoring wells located on the property at 554 27th Street, Oakland, California. The wells were destroyed by pressure grouting with neat cement slurry after permission was granted from the ACHCSA and the Zone 7 Water Agency. The wells were destroyed after four consecutive quarterly sampling episodes indicated groundwater was not significantly impacted with petroleum hydrocarbons. AEI requests that this site receive final closure from the ACHCSA and Zone 7 Water Agency.

## 6.0 REPORT LIMITATIONS AND SIGNATURES

This report presents a summary of work completed by All Environmental, Inc., including observations and descriptions of site conditions. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide required information, but it cannot be assumed that they are entirely representative of all areas not sampled. All conclusions and recommendations are based on these analyses, observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

These services were performed in accordance with generally accepted practices in the environmental engineering and construction field which existed at the time and location of the work.

**All Environmental, Inc.**

1-24  
Sign on cover letter

Bryan Campbell  
Project Geologist

## **FIGURES**



FROM:  
 US GEOLOGICAL SURVEY  
 OAKLAND WEST QUADRANGLE  
 7.5 MINUTE SERIES  
 PHOTOREVISED 1980

Scale: 1 : 24000

**ALL ENVIRONMENTAL, INC.**  
 3364 MT. DIABLO BOULEVARD, LAFAYETTE, CA

DRAWN BY:

DATE: JUNE, 1996

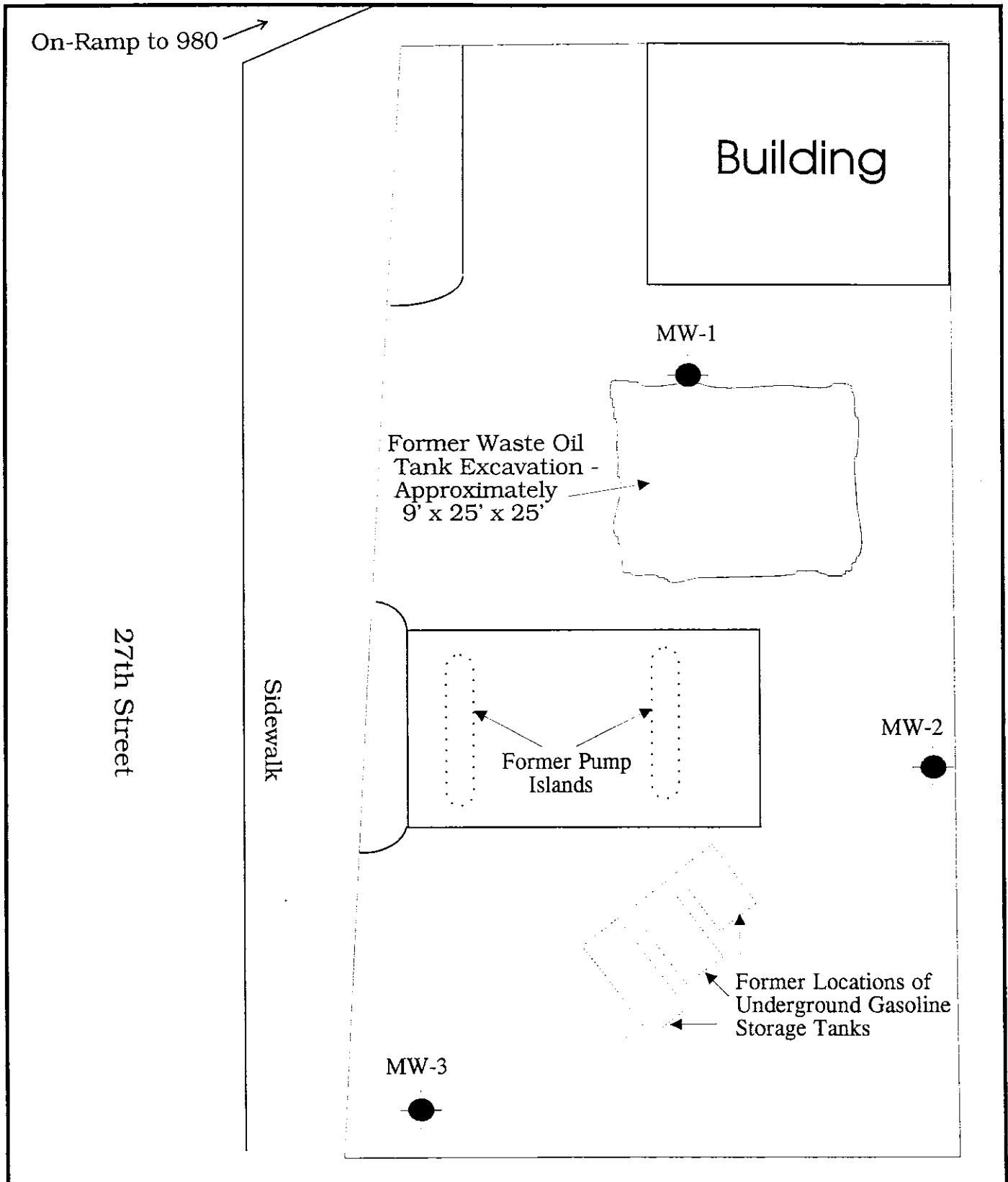
REVISED BY:

APPROVED BY:

## SITE LOCATION MAP

554 27th Street, Oakland

FIGURE 1

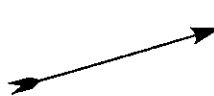


MW-1



Monitoring Well Location

N



Scale: 1" = 20'

**ALL ENVIRONMENTAL, INC.**  
 3364 MT. DIABLO BOULEVARD, LAFAYETTE, CA

DRAWN BY:

DATE: JUNE, 1996

REVISED BY:

APPROVED BY:

**SITE PLAN**

554 27th Street, Oakland

FIGURE 2

# **APPENDIX A**

## **PERMITS**



# ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600

FAX (510) 462-3914

## DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 554 27th Street  
Oakland, CA

PERMIT NUMBER 96878  
LOCATION NUMBER 1S/4W 26G8Q to 26G82

### CLIENT

Name Ms. Joan Schonbrood  
Address 935 Evelyn Street Voice 415-329-8754  
City Menlo Park Zip 94025

### PERMIT CONDITIONS

Circled Permit Requirements Apply

### APPLICANT

Name All Environmental, Inc.  
Bryan Campbell Fax 510-283-6121  
Address 3364 Mt. Diablo Blvd Voice 510-283-6000  
City Lafayette, CA Zip 94549

### A. GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

### TYPE OF PROJECT

Well Construction	_____	Geotechnical Investigation	_____
Cathodic Protection	_____	General	_____
Water Supply	_____	Contamination	_____
Monitoring	_____	Well Destruction	<u>X</u>

### B. WATER WELLS, INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

### PROPOSED WATER SUPPLY WELL USE

Domestic	_____	Industrial	_____	Other	_____
Municipal	_____	Irrigation	_____		

- C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.
- D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

### DRILLING METHOD:

Mud Rotary	_____	Air Rotary	_____	Auger	_____
Cable	_____	Other	<u>Pressure Grout</u>		

### E. WELL DESTRUCTION. See attached.

DRILLER'S LICENSE NO. 485165

### WELL PROJECTS

Drill Hole Diameter	_____ in.	Maximum	
Casing Diameter	_____ in.	Depth	_____ ft.
Surface Seal Depth	_____ ft.	Number	<u>3</u>

### GEOTECHNICAL PROJECTS

Number of Borings	_____	Maximum	
Hole Diameter	_____ in.	Depth	_____ ft.

ESTIMATED STARTING DATE 12/19/96  
ESTIMATED COMPLETION DATE 12/19/96

Approved Wyman Hong Date 10 Dec 96

Wyman Hong

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-88.

APPLICANT'S SIGNATURE

Date DEC 03 1996

**UNDERGROUND  
STORAGE TANK REMOVAL**

**FINAL REPORT**

554 27th Street  
Oakland, CA

*2-22-95*

*944612*

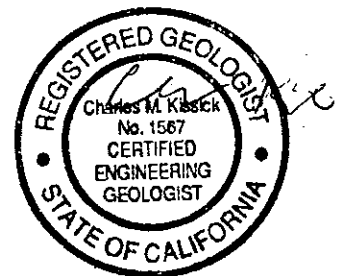
**Prepared for:**

Joan Schoonbrood  
PO Box 7442  
Menlo Park, CA 94025  
and  
Angela Barbagelata  
15 San Lorenzo Way  
San Francisco, CA 94127

**Prepared by:**

All Environmental, Inc.  
2641 Crow Canyon Road, Suite 5  
San Ramon, CA 94583

February 22, 1995



*RAP. 12/96*



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APPENDIX C:	SITE HEALTH AND SAFETY PLAN
APPENDIX D:	SAMPLE ANALYTICAL DOCUMENTATION

## **1.0 INTRODUCTION**

All Environmental Inc. (AEI) has prepared this final report to document the removal of four underground storage tanks at 554 27th Street, Oakland, California on January 18, 1995. For the location of the site, see Figure 1, Site Location Map. The four tanks consisted of a 500 gallon waste oil storage tank, and three gasoline storage tanks with capacities of 6000, 8000, and 10,000 gallons. The tank locations are shown on Figure 2, Site Plan.

AEI was contracted by the property owners, Joan Schoonbrood and Angela Barbagelata, to obtain all necessary permits, remove residual liquids and sludge from the tanks, remove and dispose of the tanks, perform soil sampling and analyses, dispose of contaminated soil, if any, and backfill the excavation.

## **2.0 PERMITS and NOTIFICATIONS**

AEI notified the California Occupational Safety and Health Administration (OSHA), and the Bay Area Air Quality Management District, and secured permits from the following agencies prior to initiating any field work:

1. Alameda County Health Care Services Agency (ACHCSA);
2. City of Oakland, Fire Department.

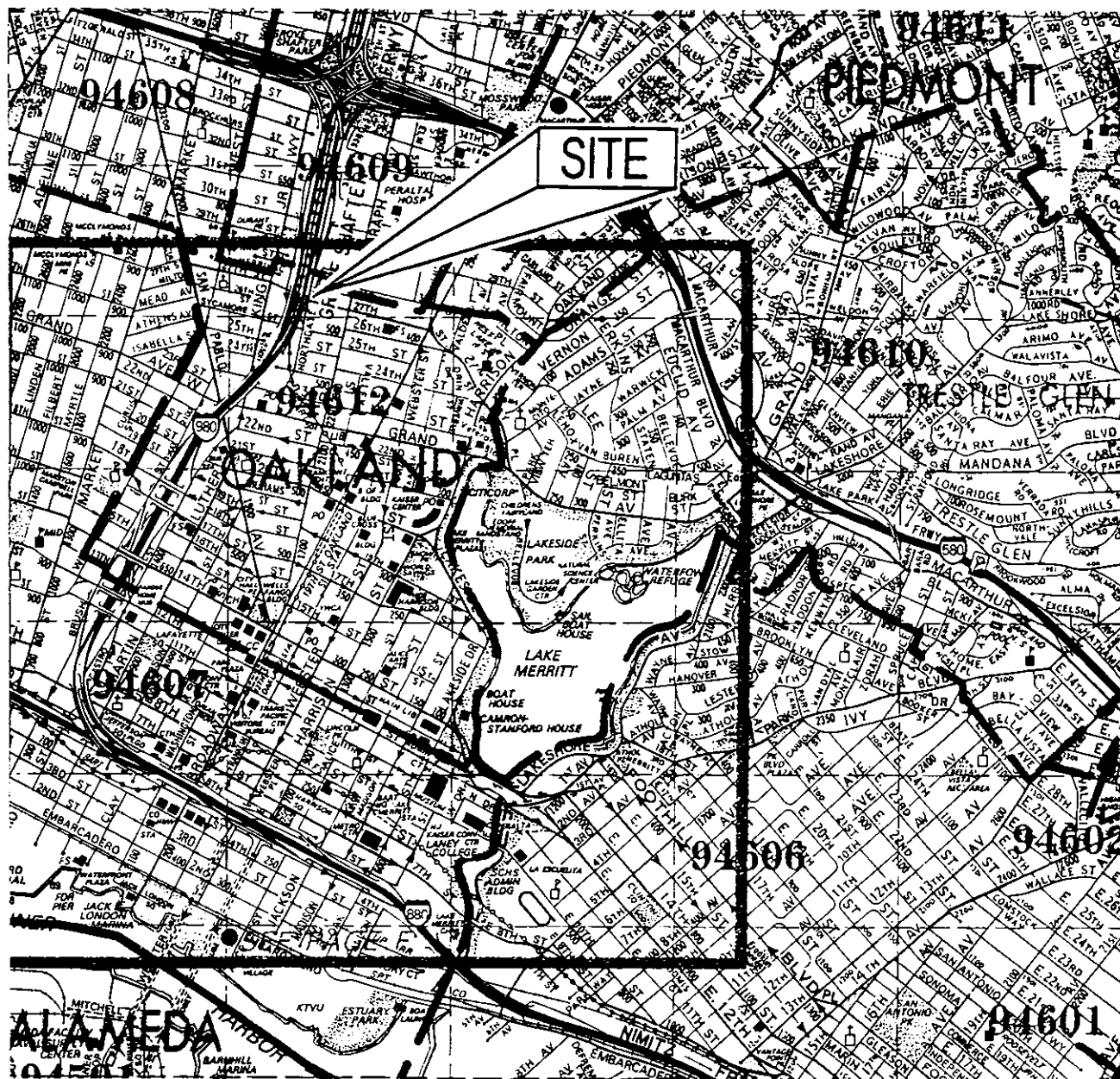
Copies of the permits and notifications are included in Appendix A, Permits and Notifications.

## **3.0 MOBILIZATION, EXCAVATION and REMOVAL**

On January 18, 1995, AEI arrived on the site. The property was fenced off on the property boundaries, and excavation began. The asphalt was removed using hand-operated equipment, and the soils were excavated by backhoe. The excavated soils were stored in stockpiles located near the excavation, as shown in Figure 3, Sampling Plan. Excavation and removal of the tanks were completed the same day, and all underground piping associated with the tanks was removed.

Residual liquids, totaling 600 gallons, (including 500 gallons from the waste oil tank) were removed from the tanks by Waste Oil Recovery, using a vacuum truck. The liquids were transported in one load under hazardous waste manifest number 93730217 for disposal at an approved disposal/recycle facility. ✓

Inspector Jennifer Eberle from ACHCSA witnessed and approved the removal of the tanks. The tanks were inerted with dry ice and hydrocarbon fumes were monitored with an LEL



0 2200  
Scale, feet

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

DRAWN BY:

REVISED BY:

DATE:

APPROVED BY:

**SITE LOCATION MAP**

From Thomas Bro's. - 1993

554 27th Street, Oakland

FIGURE 1

On-Ramp to 980

27th Street

Sidewalk

Vacant Building

500 gal. Waste Oil Tank

Existing Dispenser Island

Concrete Pad

Dispensers

Former Dispenser Island

Piping

Gasoline Tanks

6000 gal.

8000 gal.

10,000 gal.

Property Line

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

DRAWN BY:

REVISED BY:

DATE:

APPROVED BY:

SITE PLAN

554 27th Street, Oakland

FIGURE 2

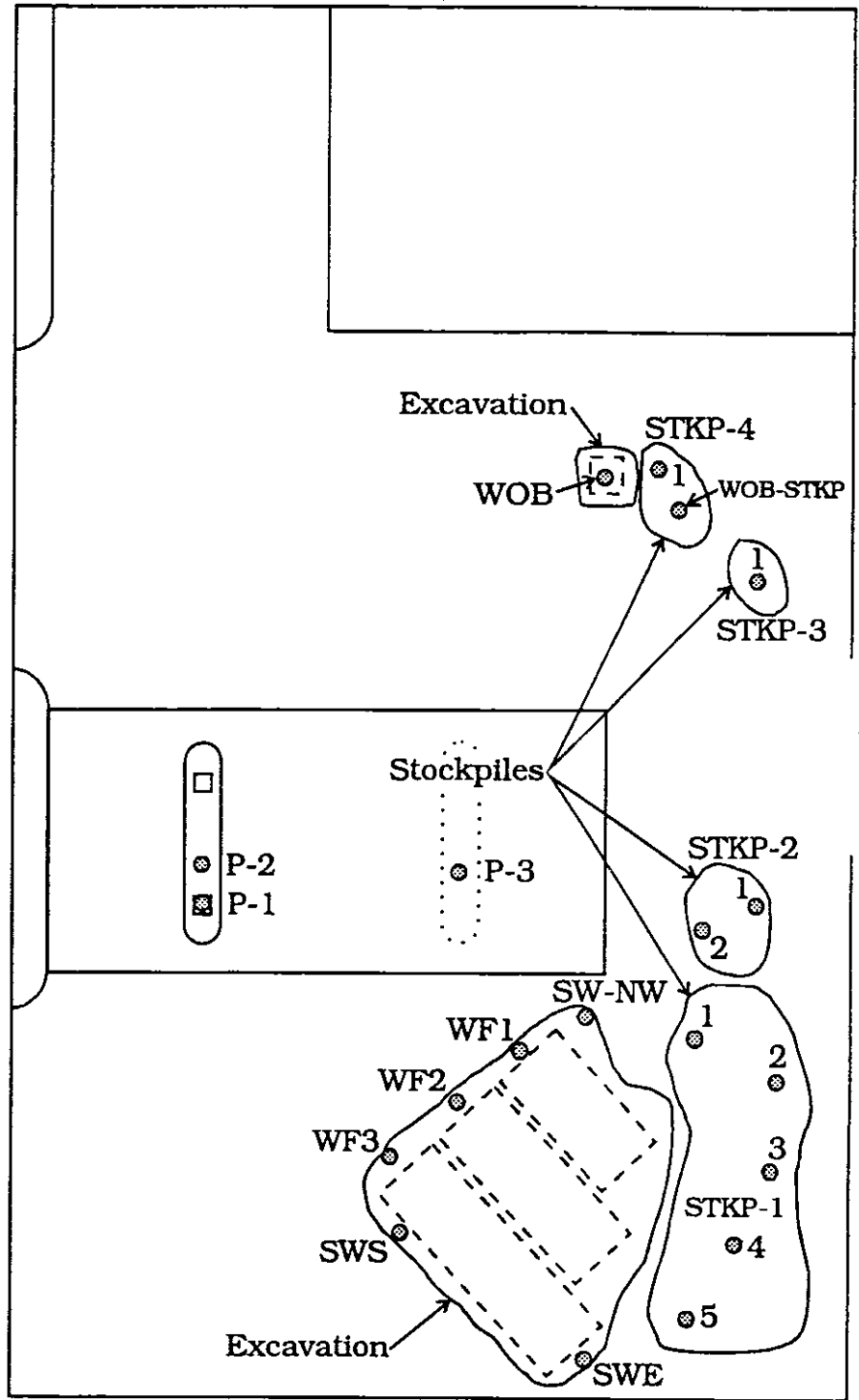
N

0 20  
Scale, feet  
(approximate)

On-Ramp to 980

27th Street

Sidewalk



NOTE: Stockpiles 2 and 3 contain soils from the same area. Samples STKP-2, 1 and 2, and STKP-3, 1 were combined to form one lab sample.

⊙ Soil Sample Location



0 20  
Scale, feet  
(approximate)

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

DRAWN BY:  
DATE:

REVISED BY:  
APPROVED BY:

**SAMPLE LOCATION PLAN**

554 27th Street, Oakland

FIGURE 3

meter before the tanks removed, loaded onto an approved transport vehicle, and transported along with the removed piping on two trucks, under hazardous waste manifest numbers 95206022 and 95206023 to Erickson, Inc. in Richmond for disposal. All hazardous waste manifests associated with the tank disposal are included in Appendix B. Prior to loading, the tanks were visually inspected by AEI and Jennifer Eberle. There were no holes found in the gasoline tanks, however the bottom of the waste oil tank had a hole, about 1-inch wide. A thick oily substance, which was too thick to be pumped out earlier, was observed dripping out of this hole when the tank was lifted out of the excavation.

✓  
wrong -  
"sizeable holes on  
end" of 6K UST.

#### 4.0 SAMPLING and ANALYSES

A total of 17 soil samples were retrieved from the excavations and the stockpiles. Three additional soil samples were retrieved from beneath the dispenser islands. At the request of the ACHCSA inspector, six samples were taken from the gasoline tank excavation, and eight samples were taken from the three gasoline tank stockpiles, numbered STKP-1, 2, and 3. Samples 1 through 5 in STKP-1 were tested separately in the laboratory, while the three samples in STKP-2 and 3 were combined to form one sample for laboratory testing. One sample was taken from the bottom of the waste oil tank excavation, and two samples were taken from the corresponding stockpile.

The samples from the excavations were taken from about 2 feet below the bottom of each tank. The bottom of each gasoline tank was about 12 feet below the top of the asphalt, and for the waste oil tank, about 5 feet below the top of the asphalt. All sample locations are shown on Figure 3.

Soil samples were taken from beneath the dispenser islands, using a hand auger. The samples were retrieved using a drive sampler, from depths of 3 feet.

One groundwater sample was taken from the gasoline tank excavation, as the tanks and therefore the excavation extended to about three feet below the top of the groundwater table.

All soil and groundwater samples associated with the tank excavation were collected under the direction of ACHCSA Inspector Jennifer Eberle. The soil samples were taken in stainless steel tubes which were driven into the soil until completely full, then sealed with aluminum foil, plastic end caps, and tape. The groundwater sample was taken with a plastic bailer which was lowered into the excavation. The water was placed into approved glass liter bottles and 40-ml glass vials. The secured soil and groundwater samples were placed into a cooler with ice. For all soil and groundwater samples taken from the excavation and the soil boring, Chain of Custody documentation was initiated. The samples were transferred to Priority Environmental Labs (State Certification #1708) for analysis.

Soil samples from the gasoline tank excavation and stockpiles and the dispenser islands, as well as the one groundwater sample, were analyzed for the following:

1. Total Petroleum Hydrocarbons as Gasoline (TPH-G) (EPA method 5030/8015);
2. BTEX - Benzene, Toluene, Ethylbenzene, Xylenes (EPA method 8020); and
3. Total Lead (AA).

Soil samples from the waste oil tank excavation and stockpile were analyzed for the following:

1. Total Petroleum Hydrocarbons as Gasoline (TPH-G) (EPA method 5030/8015);
2. BTEX - Benzene, Toluene, Ethylbenzene, Xylenes (EPA method 8020);
3. Total Petroleum Hydrocarbons as diesel (TPH-D) (EPA method 3550/8015);
4. Total Oil and Grease (EPA Method 5520);
5. LUFT Metals (Cadmium, Chromium, Lead, Nickel, Zinc) (EPA Methods 7130, 7190, 7420, 7520, 7950); and
6. Chlorinated Hydrocarbons (EPA Method 8010).

The levels of contamination of the soils from the gasoline tank excavation and from beneath the dispenser islands were found to be fairly low. However, levels of contamination from the waste oil tank excavation were found to be moderate to high, with as much as 36,000 ppm Oil & Grease.

A full list of analytical results are presented in the following tables and in Appendix D.

**TABLE 1 - Soil Samples from Within Gas Tank Excavation**

Sample ID	TPH-G mg/Kg	Benz. ug/Kg	Tol. ug/Kg	Ethyl Benz. ug/Kg	Xyl. ug/Kg	Lead mg/Kg
1-19-95 WF1	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	17 ✓
WF2	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	6.3 ✓
WF3	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	14 ✓
1-25-95 SWNW	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	6.2 ✓
SWS ✓	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	27 ✓
SWE	ND ✓	ND ✓	ND ✓	ND ✓	ND ✓	15 ✓

*Soil  
analysis  
done  
1/25/95*

**TABLE 2 - Soil Samples Gas Tank Excavation Stockpiles (Stockpile #1,2,3)**

Sample ID	TPH-G mg/Kg	Benz. ug/Kg	TCLP Benz. ug/L	Tol. ug/Kg	Ethyl Benz. ug/Kg	Xyl. ug/Kg	Lead mg/Kg
STKP-1,1	ND	ND		ND	ND	ND	11
STKP-1,2	ND	ND		ND	ND	ND	10
STKP-1,3	ND	ND		ND	ND	ND	8.6
STKP-1,4	2.6	20	ND	43	29	98	15
STKP-1,5	11	73	1.4	83	71	210	3.7
STKP-2, 1 and 2; STKP-3,1 (compos.)	ND	ND		ND	ND	ND	7.7

NOTE: In addition to the above tests, soil samples STKP-1,4 and 1,5 were tested for TCLP Benzene (EPA Method 1311/602), with the following results:

STKP-1,4: ND

STKP-1,5: 1.4 ug/L

*later*

**TABLE 3 - Soil Samples from ~~WOB~~ Oil Tank Excavation and Stockpile**

Sample ID	TPH-G mg/Kg	TPH-D mg/Kg	Benz. ug/Kg	Tol. ug/Kg	Ethyl Benz. ug/Kg	Xyl. ug/Kg	Oil & Grease mg/Kg
WOB	8.1	74	11	9.0	43	92	2500
STKP-4,1	ND	ND	ND	ND	ND	ND	1300
WOB- STKP	56	720	29	34	78	230	36,000

*5000  
E41*

*046  
3500  
F  
2000  
700  
2000*

*1-19-95*

**TABLE 3 (cont.) (LUFT Metals)**

Sample ID	Cad. mg/Kg	Chrom. mg/Kg	Lead mg/Kg	Nickel mg/Kg	Zinc mg/Kg	Chlor. Hydr.* ug/Kg
WOB	4.1	34	17	21	12	ND
STKP-4,1	11	160	77	59	30	ND
WOB- STKP	31	320	85	68	71	ND

*9010*

*900 10 5 5 50 250*



**TABLE 4 - Soil Samples from Dispenser Islands**

Sample ID	TPH-G mg/Kg	Benz. ug/Kg	Tol. ug/Kg	Ethyl Benz. ug/Kg	Xyl. ug/Kg	Lead mg/Kg
P-1	1.2	ND	ND	9.4	11	6.1
P-2	ND	ND	ND	ND	ND	20
P-3	ND	ND	ND	ND	ND	10

**TABLE 5 - Water Sample from Gas Tank Excavation**

Sample ID	TPH-G ug/L	Benz. ug/L	Tol. ug/L	Ethyl Benz. ug/L	Xyl. ug/L	Lead mg/L
W-1	910	6.8	9.5	8.5	19	ND

(mg/kg) = ppm or parts per million;

(ug/kg) = ppb or parts per billion;

(ug/L) = ppb;

ND = Not Detected;

\* Chlor. Hydr. = Chlorinated Hydrocarbons; all results were ND, and are listed in whole in Appendix D.

## 5.0 BACKFILLING

On February 7, 1995, backfilling of the gasoline tank excavation was started and completed using the overburden soils previously removed, as well as import material to make up for the volume of the tanks that were removed.

(Because the excavation extended about three feet below the water table) there was about three feet of standing water in the excavation prior to backfilling. Therefore, the bottom three feet of backfill was comprised of imported coarse base rock, which was brought up to the top of the water table. The main purpose of the coarse base rock was to provide a non-compressible backfill. Using the on-site stockpiled soil would have resulted in a very loosely compacted backfill which would have been subject to significant settlement over time, and would have resulted in poor foundation conditions for any future development on the site.

*actually, gw rises w/ the pressure differential*

The stockpile soil above the base rock was added in 1 ft. lifts and compacted to 90% compaction. An asphalt surface was not included as part of this project, and the excavation site remains unpaved, but with the backfill up to grade.

The waste oil tank excavation was not backfilled as part of this contract. Instead, it was over-excavated to remove additional contaminated soils. AEI is preparing a separate report to address the over-excavation.

## 6.0 DISCUSSION and CONCLUSIONS

All Environmental, Inc. removed four underground storage tanks from the property at 554 27th Street in Oakland on January 18, 1995. The tanks were transported as hazardous waste to the Erickson Disposal Facility in Richmond, California where they were rinsed, cut up, and disposed of as scrap.

There was no evidence of leakage from any of the gasoline tanks, however holes and leakage were observed for the waste oil tank. Soils associated with the gasoline tank excavation were found to have low levels of contamination, with no contamination found in the soils taken from within the excavation. Groundwater in the gasoline tank excavation had up to 910 ppb TPH-G. *+ 6.8 ppb benzene*

*holes in 6K UST!*

Test results of soils from the waste oil tank excavation indicate moderate to high levels on soil contamination, with up to 36,000 ppm Oil & Grease and 720 ppm TPH-D. The results suggest that the waste oil tank had released a fair amount of hydrocarbons into the soil. As a result, a second phase of excavation took place, the results of which are presented in an over-excavation report prepared by AEI, under a different contract.

It appears that the remaining site soils are generally clean in the area of the gasoline tanks, but moderately to highly contaminated in the area of the waste oil tank. The groundwater table appears to be moderately impacted.

Copies of relevant documents such as permits and notifications, disposal documents, Health and Safety Plan, a soil boring log, and analytical results are appended to this report.

## 7.0 REPORT LIMITATIONS

This report presents a summary of work completed by All Environmental, Inc., including observations and descriptions of site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide required information, but it cannot be assumed that they are representative of areas not sampled. All conclusions and/or recommendations are based on these analyses and observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

All Environmental, Inc. warrants that all services were performed in accordance with generally accepted practices, in the environmental engineering and construction field, which existed at the time and location of the work.

**APPENDIX A**

**PERMITS AND NOTIFICATIONS**

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY  
 DEPARTMENT OF ENVIRONMENTAL HEALTH  
 HAZARDOUS MATERIALS DIVISION  
 80 SWAN WAY, ROOM 200  
 OAKLAND, CA 94621  
 PHONE NO. 510/271-4320

*Jennifer Eberle*

DEPARTMENT OF ENVIRONMENTAL HEALTH  
 470 25th St. 4th Floor  
 Oakland, CA 94612  
 Telephone: (510) 874-7337

These plans have been reviewed and found to be acceptable and essentially meet the requirements of State and local health laws. Changes to your plans indicated by this Department are to insure compliance with State and local laws. The project prepared by you is now released for issuance of any required building permits for construction.

One copy of these accepted plans must be on the job and available to all contractors and craftsmen involved with the removal.

Any change or alterations of these plans and specifications must be submitted to this Department and to the Fire and Building Inspection Department to determine if such changes meet the requirements of State and local laws. Notify this Department at least 48 hours prior to the following required inspections:

- Removal of Tank and Piping
- Sampling
- Final Inspection

Issuance of a permit to operate is dependent on compliance with accepted plans and all applicable laws and regulations.

THIS IS A PERMIT TO OPERATE FOR NOT  
 COMPLETE THESE CONNECTIONS.

*J Eberle 12-15-94*

*See notes p. 5 +  
 H+S action level is 15 ppm (upgrade to C)*

**UNDERGROUND TANK CLOSURE PLAN**

\*\*\* Complete according to attached instructions \*\*\*

1. Business Name N/A (vacant building)  
 Business Owner N/A
  2. Site Address 554 27th St.  
 City Oakland, CA Zip 94612 Phone N/A
  3. Mailing Address Joan Schoonbrood  
 City PO Box 7442, Menlo Park Zip 94025 Phone (415) 233-0310
  4. Land Owner Joan Schoonbrood, Angela Barbagelata  
 Address PO Box 7442, Menlo Pk city, State CA Zip 94025
  5. Generator name under which tank will be manifested Joan Schoonbrood
- EPA I.D. No. under which tank will be manifested CAC000928896

6. Contractor All Environmental, Inc.

Address 2641 Crow Canyon Rd., Ste. 5

City San Ramon, CA 94583

Phone (510) 820-3224

License Type\* A-Haz.

ID# 654919

\*Effective January 1, 1992, Business and Professional Code Section 7058.7 requires prime contractors to also hold Hazardous Waste Certification issued by the State Contractors License Board. Indicate that the certificate has been received, in addition, to holding the appropriate contractors license type.

7. Consultant All Environmental, Inc.

Address 2641 Crow Canyon Rd., Ste. 5

City San Ramon, CA 94583

Phone (510) 820-3224

8. Contact Person for Investigation

Name Charles Kissick

Title Senior Geologist

Phone (510) 820-3224

9. Number of tanks being closed under this plan 4

Length of piping being removed under this plan approx. 40'

Total number of tanks at facility 4

10. State Registered Hazardous Waste Transporters/Facilities (see instructions).

\*\* Underground tanks are hazardous waste and must be handled \*\*  
as hazardous waste

a) Product/Residual Sludge/Rinsate Transporter

Name Waste Oil recovery EPA I.D. No. CAD000626515

Hauler License No. 0843 License Exp. Date 7/95

Address 6401 Leona Street

City Oakland State CA Zip 94605

b) Product/Residual Sludge/Rinsate Disposal Site

Name Demeeno Kerdoon EPA I.D. No. CAT 080013352

Address 2000 N. Alameda

City Compton State CA Zip \_\_\_\_\_

c) Tank and Piping Transporter

Name Erickson, Inc. EPA I.D. No. CAD0009466392  
Hauler License No. 019 License Exp. Date 7/95  
Address 255 Parr Blvd.  
City Richmond State CA Zip 94801

d) Tank and Piping Disposal Site

Name Erickson, Inc. EPA I.D. No. CAD0009466392  
Address 255 Parr Blvd.  
City Richmond State CA Zip 94801

11. Experienced Sample Collector

Name Charles Kissick  
Company All Environmental, Inc.  
Address 2641 Crow Canyon Rd., Ste. 5  
City San Ramon State CA Zip 94583 Phone (510) 820-3224

12. Laboratory

Name Priority Environmental Labs  
Address 1764 Houret Ct.  
City Milpitas State CA Zip 95035  
State Certification No. 1708

13. Have tanks or pipes leaked in the past? Yes [ ] No []

If yes, describe. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

14. Describe methods to be used for rendering tank inert

Place 1.5 pounds dry ice per 100 gallons tank capacity.

Before tanks are pumped out and inerted, all associated piping must be flushed out into the tanks. All accessible associated piping must then be removed. Inaccessible piping must be plugged.

The Bay Area Air Quality Management District (771-6000), along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of explosion proof combustible gas meters to verify tank inertness. It is the contractor's responsibility to bring a working combustible gas meter on site to verify tank inertness.

15. Tank History and Sampling Information

Tank		Material to be sampled (tank contents, soil, ground-water, etc.)	Location and Depth of Samples.
Capacity (gallons)	Use History (see instructions)		
500	Waste Oil: install. date unknown; last used in late '80's.	Soil and, if encountered, groundwater.	1 sample from beneath center, 2' <del>deep</del> below UST
6000	Gasoline: install. unknown; last time used unknown, but before 1977.	"	2 samples from each end, 2' <del>deep</del> below UST
8000	"	"	"
10,000	"	"	Same as above, with 3rd sample from center.

One soil sample must be collected for every 20 feet of piping that is removed. A ground water sample must be collected should any ground water be present in the excavation.

Soil samples will also be taken along piping, and at each dispenser island. ✓

Excavated/Stockpiled Soil	
Stockpiled Soil Volume (Estimated)	Sampling Plan <i>1 discrete per 20yd<sup>3</sup> if reused onsite</i>
200 yards	Gasoline - 16 composite samples
10 yards	Waste Oil - 1 sample

Stockpiled soil must be placed on bermed plastic and must be completely covered by plastic sheeting.

16. Chemical methods and associated detection limits to be used for analyzing samples

The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits should be followed. See attached Table 2.

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Method Number	Method Detection Limit
TPH-Gas	5030 /	8015 /	1 ppm
BTEX		8020 /	5 ppm
TPH-Dies.	3550 /	8015 /	1 ppm
Tot. Lead		AA /	0.5 ppm
Oil&Grease	5520 /	<del>ear</del> <i>E+F in soil</i>	0.5 ppm
Chl. Hydro.		8010 /	5 ppb
LUFT Metals			
Cadmium		7130	0.1 ppm
Chromium		7190	0.5 ppm
Lead		7420	0.5 ppm
Nickel		7520	0.5 ppm
Zinc		7950	0.5 ppm

17. Submit Site Health and Safety Plan (See Instructions)



Excavation Permit No. \_\_\_\_\_

# CITY OF OAKLAND

Tank Permit

## Permit to Excavate and Install, Repair, or Remove Inflammable Liquid Tanks. No. 9891

Oakland, California, January 4, 19 94

PERMISSION IS HEREBY GRANTED TO ~~install~~ remove ~~install~~ Gasoline tank and excavate commencing \_\_\_\_\_ feet inside property.

on the north side of 27th Street Street Avenue \_\_\_\_\_ feet CORNER of Hwy980 Street Avenue \_\_\_\_\_

House No. 554 - 27th Street Street Avenue \_\_\_\_\_ Present Storage \_\_\_\_\_

Owner Joan Schoonbroad Address P.O. Bx 7442 Menlo Park 94025 Phone 415-233-0310

Applicant Charles Kissick c/o All Environ., Inc. Address 2641 Crow Canyon Rd. Ste 5 San Ramon 94583 Phone 820-3224

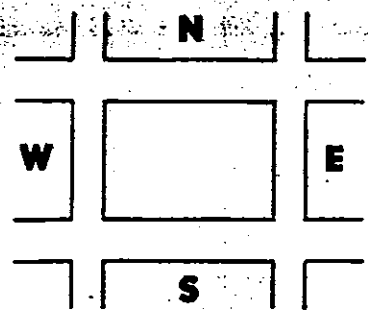
Dimensions of street (sidewalk) surface to be disturbed \_\_\_\_\_ X Number of Tanks 4 Capacity 1 - 500 Gallons, each.

Remarks: \_\_\_\_\_ 1 - 6000 \_\_\_\_\_ 1 - 8000 \_\_\_\_\_ 1 - 10,000

This Permit is granted in accordance with existing City Ordinances.  
Owner hereby agrees to remove tanks on discontinuance of use or when notified by the City Authorities.  
When installing, removing or repairing tanks, no open flame to be on or near premises.

Approved \_\_\_\_\_ Fire Marshal

Approved \_\_\_\_\_ Drainage Division Engineering Dept.



### EXCAVATING PERMIT

Issued in accordance with Ord. No. 278 CMS, Sec. 6-2.04

\_\_\_\_\_ square feet of digging or removal granted.

The receipt of \$ \_\_\_\_\_ special deposit is hereby acknowledged.

GENERAL DEPOSIT.

BUREAU OF PERMITS AND LICENSES.

### CERTIFICATE OF TANK AND EQUIPMENT INSPECTION

Inspected and passed on \_\_\_\_\_ 19 \_\_\_\_\_

By \_\_\_\_\_ Fire Marshal

Inspection Fee Paid \$ 300.00 ck#3605 rec#713618

Received by G. M. Johnson FIRE PREVENTION BUREAU

### NOTICE

Before Covering Tanks, Above Certificate Must Be Signed.  
When ready for inspection notify Fire Prevention Bureau, 273-3851

**THIS PERMIT MUST BE LEFT ON THE WORK AS AUTHORITY THEREFOR.**



## ACTIVITY NOTIFICATION FORM FOR HOLDERS OF ANNUAL PERMITS Scaffolding Falsework Trenches/Excavations

8 CCR 341.1(f) REQUIRES HOLDERS OF ANNUAL PERMITS TO PROVIDE NOTIFICATION TO THE DOSH OFFICE NEAREST THE PROJECT PRIOR TO COMMENCEMENT OF ANY WORK. THIS FORM IS PROVIDED FOR YOUR CONVENIENCE TO USE FOR SUCH NOTIFICATION.

THIS FORM MAY BE FAXED TO THE NEAREST DOSH OFFICE TO COMPLY WITH THE ABOVE. PLEASE DO NOT MAIL DUPLICATE NOTIFICATION TO FOLLOW-UP FAX NOTIFICATION.

FAX DATA: FAXED TO San Francisco Oakland DOSH DISTRICT OFFICE ON 1/11/95

DOSH FAX NO. (~~707~~ ~~537-3020~~) (510) 368-7092 BY Charles Kwick

Company Name: All Environmental, Inc. Field Phone: (510) 414-9763  
Annual Permit Number: 563766 Office Phone: (510) 820-3224  
Issuing Region: Sacramento Issuing District: Concord  
Specific Activity Location: 554 27th St. Number of Employees: 6  
Nearest Major Cross Street: Hwy 980 Starting Date: 1/18/95  
City: Oakland Anticipated Completion Date: 1/18/95  
County: Alameda High Voltage Lines in Proximity? No  Yes

**INSTRUCTIONS:** The appropriate item(s) must be completed and signed by a person knowledgeable about the project for each activity covered by a permit. Please fill in or check off the blanks where appropriate.

Scaffolding: Height \_\_\_\_\_ Metal \_\_\_\_\_ Wood \_\_\_\_\_ Wood over 60 Feet \_\_\_\_\_ Metal over 125 Feet \_\_\_\_\_

Metals over 125 Feet or Wood over 60 Feet requires design by California Registered Civil Engineer & Plans at Site. (See 8 CCR 1644(c)(7))

Description: \_\_\_\_\_

Falsework/Vertical Shoring: Maximum Height \_\_\_\_\_ Maximum Span \_\_\_\_\_ Material \_\_\_\_\_

Description: \_\_\_\_\_

(See 8 CCR 1717)

Trenches/Excavations: Depth Range(Min/Max) 10/12 Width Range(Min/Max) 20-25 Total Length 30

Ground Protection Method: Shoring \_\_\_\_\_ Sloping  Trench Shield \_\_\_\_\_ Professional Engineer \_\_\_\_\_

Underground Services Alert(USA) Number pending (NORTH 1-800-642-2444/SOUTH 1-800-422-4133)

Soil Analysis to be done? Yes  No \_\_\_\_\_ If No, You Must Slope 1.5 to 1.

Competent Person: The holder of an Annual Permit who is notifying the District of the commencement of a Trench and/or Excavation project shall designate a competent person in accordance with the requirements of 8 CCR Section 1504, 1541, and 1541.1.

Description: Removal of 4 underground tanks, 500-gal, 6000-gal, 8000-gal, and 10,000-gal

Ground protection methods for excavations deeper than 20 feet must be designed by a Registered Professional Engineer. See 8 CCR 1541.1, Appendix F.

I hereby certify that to the best of my knowledge the above information and assertions are true and correct and that I/the applicant have knowledge of and will comply with the foregoing.

Signature: Ch Kwick

Title: Senior Geologist

Date: 1/11/95

**APPENDIX B**

**TRANSPORT AND DISPOSAL DOCUMENTS**

DAY OR NIGHT  
TELEPHONE  
(510) 235-1393

# CERTIFICATE CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

## NO. 19581

CUSTOMER
ALL ENVIRONMEN
JOB NO.
964958

FOR: ERICKSON, INC. TANK NO. 15223

LOCATION: RICHMOND DATE: 95/01/23 TIME: 09:20

TEST METHOD VISUAL GASTECH/1314 SMPN LAST PRODUCT UO

This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE 250 GALLON TANK CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1%  
ERICKSON, INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN  
CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS  
WASTE FACILITY.  
ERICKSON, INC. HAS THE APPROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK  
SHIPPED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

### STANDARD SAFETY DESIGNATION

**SAFE FOR MEN:** Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissible concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate.

**SAFE FOR FIRE:** Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) in the judgment of the Inspector, the residues are not capable of producing a higher concentration than permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

*Francis Chapp*  
REPRESENTATIVE

TITLE

*Paul S. Sub*  
INSPECTOR

DAY OR NIGHT  
TELEPHONE  
(510) 235-1393

# CERTIFICATE CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

## NO. 19582

CUSTOMER ALL ENVIRONMEN
JOB NO. 964958

FOR: ERICKSON, INC. TANK NO. 15224

LOCATION: RICHMOND DATE: 95/01/23 TIME: 09:21

TEST METHOD VISUAL GASTECH/1314 SMPN LAST PRODUCT UG

This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE 6000 GALLON TANK CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1%  
ERICKSON, INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN  
CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS  
WASTE FACILITY.  
ERICKSON, INC. HAS THE APPROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK  
SHIPPED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

### STANDARD SAFETY DESIGNATION

**SAFE FOR MEN:** Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissible concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate.

**SAFE FOR FIRE:** Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

[Signature]  
REPRESENTATIVE

TITLE

[Signature]  
INSPECTOR

DAY OR NIGHT  
TELEPHONE  
(510) 235-1393

# CERTIFICATE CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

## NO. 19583

CUSTOMER  
ALL ENVIRONMEN  
JOB NO.  
964658

FOR: ERICKSON, INC. TANK NO. 15225

LOCATION: RICHMOND DATE: 95/01/23 TIME: 09:21

TEST METHOD VISUAL GASTECH/1314 SMPN LAST PRODUCT UG

This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE 8000 GALLON TANK CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1%  
ERICKSON, INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN  
CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS  
WASTE FACILITY.  
ERICKSON, INC. HAS THE APPROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK  
SHIPPED TO US FOR PROCESSING.

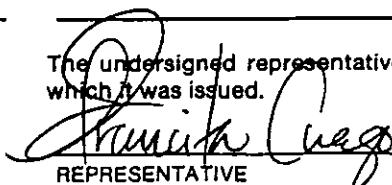
In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

### STANDARD SAFETY DESIGNATION

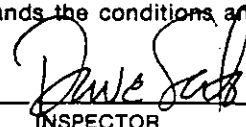
**SAFE FOR MEN:** Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissible concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate.

**SAFE FOR FIRE:** Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

  
REPRESENTATIVE

TITLE

  
INSPECTOR

DAY OR NIGHT  
TELEPHONE  
(510) 235-1393

# CERTIFICATE CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

## NO. 19568

CUSTOMER ALL ENVIRONMEN JOB NO. 964958
-------------------------------------------------

FOR: ERICKSON, INC. TANK NO. 15226

LOCATION: RICHMOND DATE: 95/01/20 TIME: 09:03

TEST METHOD VISUAL GASTECH/1314 SMPN LAST PRODUCT UG

This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE 10000 GALLON TANK CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1%  
ERICKSON, INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY.  
ERICKSON, INC. HAS THE APPROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK SHIPPED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

### STANDARD SAFETY DESIGNATION

**SAFE FOR MEN:** Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissible concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate.

**SAFE FOR FIRE:** Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

[Signature]  
REPRESENTATIVE

TITLE

[Signature]  
INSPECTOR



5200025  
 IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7777

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. CA000001-77151-101610213		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address 45 233 230 Mr. Bob Johnson 200 2nd St Richmond, CA 94801						A. State Manifest Document Number 95206023							
4. Generator's Phone ( )						B. State Generator's ID							
5. Transporter 1 Company Name Erickson Inc				6. US EPA ID Number K1111194461212		C. State Transporter's ID 428025							
7. Transporter 2 Company Name						D. Transporter's Phone 510-235-1399							
9. Designated Facility Name and Site Address Erickson, Inc. 255 Parr Blvd. Richmond, CA. 94801						8. US EPA ID Number 1949499366793		E. State Transporter's ID					
						F. Transporter's Phone							
						G. State Facility's ID							
						H. Facility's Phone (510)235-1399							
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		I. Waste Number	
						No. Type							
a. NON-ECRA Hazardous Waste Solid Waste Empty Storage Tank.						202 TP				P		State 512 EPA/Other NONE	
b. 8K + 10K USTs.												State EPA/Other	
c.												State EPA/Other	
d.												State EPA/Other	
J. Additional Descriptions for Materials Listed Above Qty. 2 Empty Storage Tank(s) # 1520... Tank(s) have been inerted with 15 lbs. Dry Ice Per 1000 Gallon Capacity.						K. Handling Codes for Wastes Listed Above a. b. c. d.							
15. Special Handling Instructions and Additional Information Keep away from sources of ignition. Always wear hardhats when working around U.G.S.T.'s 24 Hr. Contact Name: ... Phone: 920-2229													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name Schoonover				Signature <i>[Signature]</i>				Month Day Year 01 11 91					
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name Robert Abou				Signature <i>[Signature]</i>				Month Day Year 01 11 91					
18. Transporter 2 Acknowledgement of Receipt of Materials													
Printed/Typed Name				Signature				Month Day Year					
19. Discrepancy Indication Space													
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.													
Printed/Typed Name				Signature				Month Day Year					

DO NOT WRITE BELOW THIS LINE.

93730211  
 IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7575

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. <i>CIDCB00092881946310217</i>	Manifest Document No. <i>1 of 1</i>	2. Page 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <i>(415) ANGELO BARBAGELATA MS. JOAN SCHOON BROOD PO BOX 7447 MENLO PARK CAL 94025</i>			A. State Manifest Document Number <i>93730211</i>			
4. Generator's Phone ( ) <i>233 0310</i>			B. State Generator's ID			
5. Transporter 1 Company Name <i>WASTE OIL RECOVERY</i>			6. US EPA ID Number <i>CA10010048571</i>		C. State Transporter's ID <i>451165</i>	
7. Transporter 2 Company Name			8. US EPA ID Number		D. Transporter's Phone <i>510 330750</i>	
9. Designated Facility Name and Site Address <i>ALUSO OIL 5002 ARCHER ALUSO CAUC 95002</i>			10. US EPA ID Number <i>CA10010048571</i>		G. State Facility's ID	
					H. Facility's Phone <i>408 262 2715</i>	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) <i>a. USED OILS, NON HAZARDOUS WASTE; LIQUID</i>			12. Containers	13. Total Quantity	14. Unit	L. Waste Number <i>221</i>
			No.	Type	Wt/Vol	
				<i>001 T 00600</i>	<i>9</i>	
b.						State
c.						EPA/Other
d.						State
						EPA/Other
						State
						EPA/Other
			K. Handling Codes for Wastes Listed Above			
			<i>01</i>			
15. Special Handling Instructions and Additional Information <i>ER6 #27 PROTECTIVE GEAR 24 HOUR WORKS. 510 330750</i>			<i>SITE; 554 27th STREET OAKLAND CALIF</i>			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.						
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name <i>SCHUBERT</i>			Signature <i>[Signature]</i>		Month Day Year <i>01 18 95</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials			Signature <i>[Signature]</i>		Month Day Year <i>01 18 95</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials			Signature		Month Day Year	
19. Discrepancy Indication Space						
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name			Signature		Month Day Year	

DO NOT WRITE BELOW THIS LINE.

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7622.

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. CA499094889606022		Manifest Document No. 1 of 1		2. Page 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address <b>(415) 233-0310 ms Angela Barbagelata JOAN Schoonbrood PO Box 7442 Merito Park CA 94025</b>						A. State Manifest Document Number <b>95206022</b>							
4. Generator's Phone ( )						B. State Generator's ID							
5. Transporter 1 Company Name <b>ERICKSON INC</b>				6. US EPA ID Number CA49909466392		C. State Transporter's ID <b>420348</b>							
7. Transporter 2 Company Name						D. Transporter's Phone <b>510-235-1393</b>							
9. Designated Facility Name and Site Address <b>ERICKSON, Inc. 255 Parr Blvd. Richmond, CA. 94801</b>						8. US EPA ID Number CA49909466392							
						E. State Facility's ID							
						F. Facility's Phone <b>(510) 235-1393</b>							
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		1. Waste Number	
						No. Type		Quantity		Wt/Vol		State	
a. NON-RCRA Hazardous Waste Solid Waste Empty Storage Tank.						0102 TP		48250		P		State 512 EPA/Other	
b. 6K + 250gal USTs												State EPA/Other	
c.												State EPA/Other	
d.												State EPA/Other	
10. Additional Descriptions for Materials Listed Above Qty. <u>2</u> Empty Storage Tank(s) # <u>15223, 15224</u> Tank(s) have been inerted with 15 lbs. Dry Ice Per 1000 Gallon Capacity.						K. Handling Codes for Wastes Listed Above							
						a.		b.		c.		d.	
15. Special Handling Instructions and Additional Information Keep away from sources of ignition. Always wear hardhats when working around U.G.S.T.'s 24 Hr. Contact Name: <u>Charles Kissak</u> & Phone <u>820-3224</u>													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name <b>SCHOONBROOD</b>				Signature <i>[Signature]</i>		Month <b>11</b>		Day <b>18</b>		Year <b>1995</b>			
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name <b>CHRIS OWEN</b>				Signature <i>[Signature]</i>		Month <b>01</b>		Day <b>18</b>		Year <b>1995</b>			
19. Discrepancy Indication Space													
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name						Signature		Month		Day		Year	

DO NOT WRITE BELOW THIS LINE.

**APPENDIX C**

**SITE HEALTH AND SAFETY PLAN**

**HEALTH AND SAFETY PLAN**

for  
554 27th Street  
Oakland, CA

Prepared for:

Joan Schoonbrood  
PO Box 7442  
Menlo Park, CA 94025

## A. INTRODUCTION

This Site Specific Health and Safety Plan is written for the removal of four underground storage tanks located at 554 27th Street, Oakland. All job site personnel will follow CAL OSHA safe operating practices as outlined in 29 CFR 1910 and 1926, as well as established guidelines set forth by All Environmental, Inc. or their respective companies.

## B. WORK DESCRIPTION

Prepared by: Charles Kissick, Project Manager

Site Manager: Dustin Roy

Address: 554 27th Street  
Oakland, CA

Scope of Work: All Environmental, Inc. (AEI) will remove three underground gasoline storage tanks with capacities of 10,000, 8,000, and 6,000 gallons, and one 500 gallon waste oil tank. Excavated soil will be stockpiled on site, and soil samples will be retrieved from the stockpile for analytical testing. In addition, soil samples will be retrieved from the bottom of the tank excavation, beneath both ends of the tank, under the direct supervision of a health inspector from the County of Alameda, and an inspector from the City of Oakland Fire Department. Following removal of the tank, the stockpiled soil will be placed back into the excavation. Final disposal of the soil will be dependant on results of the analytical testing of the soil.

## C. SITE/WASTE CHARACTERISTICS

Hazard Level:      Serious:                      Low: XXX  
                                 Moderate: XXX                      Unknown:

Waste Type:      Solid:              Underground Storage Tanks  
                                 Sludge:            None  
                                 Liquid:            Gasoline and/or Waste Oil Remaining in Tanks  
                                 Gas:                None

Hazard Characteristics:      Flammable, Toxic

There will be a three foot boundary surrounding the excavation and the stored soil. The area within this boundary is considered an exclusion zone and only qualified personnel will be

allowed to enter. All personnel arriving or departing the site should log in before entering the exclusion zone. All activities on site must be cleared through the Site Manager.

#### D. HAZARD EVALUATION

Potential chemical hazards include skin and eye contact or inhalation exposure to potentially toxic concentrations of hydrocarbon vapors. The potential toxic compounds that may exist at the site are listed below with descriptions of specific health effects of each. The list includes the primary potential toxic constituents that may be found at sites which previously handled petroleum hydrocarbons, including home heating diesel fuel.

##### 1. Benzene

- a. Colorless to light yellow, flammable liquid with an aromatic odor.
- b. Toxic hazard by **inhalation, adsorption, ingestion and skin and/or eye contact.**
- c. Exposure may irritate eyes, nose and respiratory system and may cause acute restlessness, convulsions, nausea, or depression. Benzene is carcinogenic.\*
- d. Permissible exposure level (PEL) for a time weighted average (TWA) over an eight hour period is 1.0 ppm.

##### 2. Toluene

- a. Colorless liquid with a sweet, pungent, benzene like odor.
- b. Toxic hazard by **inhalation, adsorption, ingestion and skin and/or eye contact.**
- c. Exposure may cause fatigue, weakness, confusion, euphoria, dizziness, headaches, dilated pupils, lacrimation, nervousness, insomnia, paresthesia, and dermatitis.
- d. Permissible exposure level for a time weighted average over an eight hour period is 100 ppm.

##### 3. Xylene

- a. Colorless liquid with an aromatic odor.
- b. Toxic hazard by **inhalation, adsorption, ingestion and skin and/or eye contact.**
- c. Exposure may irritate eyes nose and throat and may cause dizziness, excitement, drowsiness, incoordination, corneal vacuolization, anorexia, nausea, vomiting, and dermatitis.
- d. Permissible exposure level for a time weighted average over an eight hour period is 100 ppm.

##### 4. Ethylbenzene

- a. Colorless liquid with an aromatic odor.
- b. Toxic hazard by **inhalation, ingestion, and skin and/or eye contact.** Ethylbenzene is carcinogenic.\*
- c. Exposure may irritate eyes and mucous membrane and may cause headaches, dermatitis, narcosis and loss of consciousness.
- d. Permissible exposure level for a time weighted average over an eight hour period is 100 ppm.

## 5. Lead

- a. A heavy ductile soft grey metal.
- b. Toxic hazard by **inhalation, ingestion, and skin and/or eye contact.**
- c. Exposure may cause weakness, nausea, lassitude, diarrhea, insomnia, anorexia, inflamed mucous membranes and abdominal pains. **Lead is carcinogenic.\***
- d. Permissible exposure level for a time weighted average over an eight hour period is .05 ppb (in vapor).

## 6. Diesel

- a. Colorless to dark brown, combustible liquid with an aromatic odor
- b. Toxic hazard by **inhalation, ingestion, skin and/or eye contact.**
- c. Inhalation of vapors may depress the central nervous system, increasing reaction times, and decreasing pulse rate and blood pressure. Skin irritant.
- d. Occupational exposure limit 5.0 ppm (in vapor).

## 7. Gasoline

- a. Colorless liquid with a strong aromatic odor. Highly volatile and extremely flammable.
- b. Toxic hazard by **inhalation, adsorption, ingestion, and skin and/or eye contact.**
- c. Inhalation of vapors can cause depression of the central nervous system with symptoms such as headache, dizziness, nausea, and loss of coordination. Skin contact can cause defatting of the skin, skin irritation, and dermatitis. Benzene is a major constituent of gasoline.
- d. Permissible exposure level for a time weighted average over an eight hour period is 300 ppm.

## 8. Waste Oil

- a. Toxic hazard by **ingestion** and possibly **inhalation.**
- b. Prolonged contact may cause skin irritation and dermatitis. Waste oil may be carcinogenic.\*
- c. Waste oil may contain metals or toxic organics from thermal breakdown of the oil. In some cases, chlorinated solvents may be present.
- d. Permissible exposure level for a time weighted average over an eight hour period is 5 ppm (in vapor).

\* Known to the State of California to cause cancer.



Dusty Roy has been designated to coordinate access control and security on site. All work will strictly follow OSHA guidelines. A safe perimeter has been established at a three foot radius surrounding the site. These boundaries are identified by yellow caution tape and orange safety cones. Personnel shall maintain the maximum distance from the excavation while performing their duties. Additional hazards on site include heavy equipment and overhead lifting equipment. Only 40-hour trained personnel will operate equipment or perform any duty associated with this project.

A FIRST AID KIT AND A 40 POUND BC FIRE EXTINGUISHER WILL BE AVAILABLE ON SITE.

EMERGENCY SERVICES ARE AVAILABLE BY DIALING 911 ON THE TELEPHONE LOCATED IN THE SITE MANAGER'S VEHICLE. THIS VEHICLE WILL BE ON SITE AT ALL TIMES.

#### E. PERSONAL PROTECTIVE CLOTHING

Based on evaluation of potential hazards, level "D" protective clothing has been designated as the appropriate protection for this project. The level of protective clothing will be upgraded if the organic vapor levels in the operator's breathing zone exceeds 5 ppm above background levels continuously for more than five minutes, or if any single reading exceeds ~~25~~ ppm. If this occurs then level C protection will be used. If the organic concentration in the operator's breathing zone exceed's 200 ppm for 5 minutes and/or the organic vapor concentration two feet above the excavation exceeds 1,000 ppm or 10% of the lower explosive limit, then the equipment will be shut down and the site evacuated. If organic vapor concentrations exceed 200 ppm and work continues then level B protection will be required.

"EPA Standard Operating Safety Guidelines" defines the levels of protective clothing as follows:

##### LEVEL A:

Fully encapsulating suit / SCBA / Hard hat / Steel toe boots / Safety gloves.

##### LEVEL B:

Splash resistant suit / SCBA / Hard Hat / Steel toe boots / Safety gloves.

##### LEVEL C:

Half face respirator / Hard hat / Safety glasses / Steel toe boots / Coveralls / Gloves.

##### LEVEL D:

Coveralls / Hard hat / Safety Glasses / Steel toe boots / Gloves.

If air purifying respirators are authorized, organic vapor w-filter is the appropriate canister for use with the involved substances and concentrations. A competent individual has determined that all criteria for using this type of respiratory protection have been met.

NO CHANGES TO THE SPECIFIED LEVELS OF PROTECTION SHALL BE MADE WITHOUT THE APPROVAL OF THE COMPANY SAFETY OFFICER, G. W. ROY.

F. MONITORING INSTRUMENTS

The following environmental monitoring instruments shall be used on site at specified intervals.

Lower Explosive Limit (LEL) Meter that will also check the tank for Oxygen levels will be used to check the tank for removal and transportation.

G. EMERGENCY HOSPITAL

The closest hospital with an emergency room is:

**PERALTA HOSPITAL**

**(510) 451-4900**

DIRECTIONS FROM THE JOB SITE:

EXIT JOBSITE AND GO:

Right on 27th, make U-turn;  
Left on Telegraph;  
Right on 30th Street;  
Hospital is located on the left.

**APPENDIX D**

**SAMPLE ANALYTICAL DOCUMENTATION AND  
SOIL BORING LOG**



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

January 24, 1995

PEL # 9501041

ALL ENVIRONMENTAL, INC.

Attn: Charles Kissick

Re: One water and seventeen soil samples for Gasoline/BTEX, Diesel, and Oil & Grease analyses.

Project name: Schoonbrood

Project number: 1174

Date sampled: Jan 18-19, 1995

Date submitted: Jan 20, 1995

Date extracted: Jan 20-24, 1995


Date analyzed: Jan 20-24, 1995

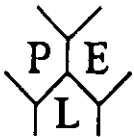
**RESULTS:**

SAMPLE I.D.	Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylene (ug/L)
W-1	910	6.8	9.5	8.5	19
Detection limit	50	0.5	0.5	0.5	0.5
Method of Analysis	5030 / 8015	602	602	602	602

SAMPLE I.D.	Gasoline (mg/Kg)	Diesel Benzene (mg/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Oil & Xylene Grease (ug/Kg)
P-1	1.2	---	N.D.	N.D.	11
P-2	N.D.	---	N.D.	N.D.	N.D.
P-3	N.D.	---	N.D.	N.D.	N.D.
STKP-1,1	N.D.	---	N.D.	N.D.	N.D.
STKP-1,2	N.D.	---	N.D.	N.D.	N.D.
STKP-1,3	N.D.	---	N.D.	N.D.	N.D.
STKP-1,4	2.6	---	20	43	98
STKP-1,5	11	---	73	83	210
STKP-2,1&2,-3,1*	N.D.	---	N.D.	N.D.	20
SWE	N.D.	---	N.D.	N.D.	N.D.
SWS	N.D.	---	N.D.	N.D.	N.D.
WF1	N.D.	---	N.D.	N.D.	N.D.
WF2	N.D.	---	N.D.	N.D.	N.D.
WF3	N.D.	---	N.D.	N.D.	N.D.
WOB	8.1	74	11	9.0	92 2500
WOB-STKP	56	720	29	34	78 230 36000
STKP-4,1	N.D.	N.D.	N.D.	N.D.	N.D. 1300
Blank	N.D.	N.D.	N.D.	N.D.	N.D. N.D.
Spiked recovery	80.9%	89.0%	90.4%	91.4%	91.9% 82.8% ---
Detection limit	1.0	1.0	5.0	5.0	5.0 5.0 10
Method of Analysis	5030 / 8015	3550 / 8015	8020	8020	8020 8020 5520 D & F

\*Composited soil sample.

  
 David Duong  
 Laboratory Director



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

January 25, 1995

PEL # 9501041

ALL ENVIRONMENTAL, INC.

Attn: Charles Kissick

Re: Three soil samples for Gasoline/BTEX and TCLP Benzene analyses.

Project name: Schoonbrood

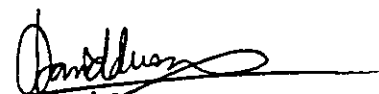
Project number: 1174

Date sampled: Jan 18-25, 1995  
Date extracted: Jan 24-25, 1995

Date submitted: Jan 20&25, 1995  
Date analyzed: Jan 24-25, 1995

## RESULTS:

SAMPLE I.D.	Gasoline (mg/Kg)	TCLP Benzene (ug/L)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylene (ug/Kg)
STKP-1,4	---	N.D.	---	---	---	---
STKP-1,5	---	1.4	---	---	---	---
SW-NW	N.D.	---	N.D.	N.D.	N.D.	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	80.9%	---	90.4%	91.4%	91.9%	82.8%
Detection Limit	1.0	0.5	5.0	5.0	5.0	5.0
Method of Analysis	5030 / 8015	1311 / 602	8020	8020	8020	8020

  
David Duong  
Laboratory Director



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

January 26, 1995

PEL # 9501041

ALL ENVIRONMENTAL, INC.

Attn: Charles Kissick

Re: One soil sample for total Lead analysis.


Project name: Schoonbrood  
Project number: 1174

Date sampled: Jan 25, 1995  
Date extracted: Jan 25-26, 1995

Date submitted: Jan 25, 1995  
Date analyzed: Jan 25-26, 1995

## RESULTS:

SAMPLE I.D.	Lead (mg/Kg)
SW-NW	6.2
Blank	N.D.
Detection limit	0.5
Method of Analysis	7420

  
David Duong  
Laboratory Director



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

January 26, 1995

PEL # 9501041

ALL ENVIRONMENTAL, INC.

Attn: Charles Kissick

Re: One water and fourteen soil samples for total Lead analysis.

Project name: Schoonbrood

Project number: 1174

Date sampled: Jan 18, 1995

Date extracted: Jan 20-26, 1995

Date submitted: Jan 20, 1995

Date analyzed: Jan 20-26, 1995

## RESULTS:

SAMPLE I.D.	Lead (mg/L)
-------------	-------------

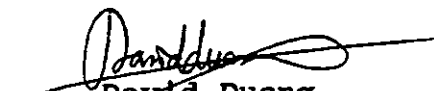
W-1	N.D.
Detection limit	0.1

SAMPLE I.D.	Lead (mg/Kg)
-------------	--------------

P-1	6.1
P-2	20
P-3	10
STKP-1,1	11
STKP-1,2	10
STKP-1,3	8.6
STKP-1,4	15
STKP-1,5	3.7
STKP-2,1&2,-3,1*	7.7
SWE	15
SWS	27
WF 1	17
WF 2	6.3
WF 3	14

Blank	N.D.
Detection limit	1.0
Method of Analysis	7420

\*Composited soil sample.

  
David Duong  
Laboratory Director



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

January 26, 1995

PEL # 9501041

ALL ENVIRONMENTAL, INC.

Attn: Charles Kissick

Re: Three soil samples for Cadmium, Chromium, Lead, Nickel, and Zinc analyses.

Project name: Schoonbrood

Project number: 1174

Date sampled: Jan 18-19, 1995

Date extracted: Jan 20-26, 1995

Date submitted: Jan 20, 1995

Date analyzed: Jan 20-26, 1995

## RESULTS:

SAMPLE I.D.	Cadmium (mg/Kg)	Chromium (mg/Kg)	Lead (mg/Kg)	Nikel (mg/Kg)	Zinc (mg/Kg)
STKP-4,1	11	160	77	59	30
WOB	4.1	34	17	21	12
WOB-STKP	31	320	85	68	71
Blank	N.D.	N.D.	N.D.	N.D.	N.D.
Detection limit	1.0	1.0	1.0	1.0	1.0
Method of Analysis	7130	7190	7420	7520	7950

David Duong  
Laboratory Director





# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

January 25, 1995

PEL # 9501041

ALL ENVIRONMENTAL, INC.

Attn: Charles Kissick

Re: Three soil samples for total Oil & Grease analysis.

Project name: Schoonbrood

Project number: 1174

Date sampled: Jan 18-19, 1995

Date submitted: Jan 20, 1995

Date extracted: Jan 24-25, 1995

Date analyzed: Jan 24-25, 1995

## RESULTS:

SAMPLE I.D.	Oil & Grease (mg/Kg)
<del>STKP-1,4</del> 4,1	720
WOB	2000
WOB-STKP	26000
Blank	N.D.
Detection Limit	100
Method of Analysis	5520 F

David Duong  
Laboratory Director



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

January 23, 1995

PEL # 9501041

ALL ENVIRONMENTAL, INC.

Attn: Charles Kissick

Project name: Schoonbrood

Project number: 1174

Sample I.D.: WOB


Date Sampled: Jan 18-19, 1995  
Date Analyzed: Jan 20-23, 1995

Date Submitted: Jan 20, 1995

Method of Analysis: EPA 8010

Detection limit: 5.0 ug/Kg

COMPOUND NAME	CONCENTRATION ( ug/Kg )	SPIKE RECOVERY ( % )
Chloromethane	N.D.	-----
Vinyl Chloride	N.D.	-----
Bromomethane	N.D.	-----
Chloroethane	N.D.	-----
Trichlorofluoromethane	N.D.	-----
1,1-Dichloroethene	N.D.	-----
Methylene Chloride	N.D.	-----
1,2-Dichloroethene (TOTAL)	N.D.	-----
1,1-Dichloroethane	N.D.	-----
Chloroform	N.D.	82.1
1,1,1-Trichloroethane	N.D.	-----
Carbon Tetrachloride	N.D.	-----
1,2-Dichloroethane	N.D.	-----
Trichloroethene	N.D.	80.9
1,2-Dichloropropane	N.D.	-----
Bromodichloromethane	N.D.	-----
2-Chloroethylvinylether	N.D.	-----
Trans-1,3-Dichloropropene	N.D.	-----
Cis-1,3-Dichloropropene	N.D.	-----
1,1,2-Trichloroethane	N.D.	-----
Tetrachloroethene	N.D.	81.7
Dibromochloromethane	N.D.	-----
Chlorobenzene	N.D.	-----
Bromoform	N.D.	-----
1,1,2,2-Tetrachloroethane	N.D.	-----
1,3-Dichlorobenzene	N.D.	-----
1,4-Dichlorobenzene	N.D.	-----
1,2-Dichlorobenzene	N.D.	-----

  
David Duong  
Laboratory Director



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

January 23, 1995

PEL # 9501041

ALL ENVIRONMENTAL, INC.

Attn: Charles Kissick

Project name: Schoonbrood

Project number: 1174

Sample I.D.: STKP-4,1

Date Sampled: Jan 18-19, 1995  
Date Analyzed: Jan 20-23, 1995


Date Submitted: Jan 20, 1995

Method of Analysis: EPA 8010

Detection limit: 5.0 ug/Kg

COMPOUND NAME	CONCENTRATION ( ug/Kg )	SPIKE RECOVERY ( % )
---------------	----------------------------	-------------------------

Chloromethane	N.D.	-----
Vinyl Chloride	N.D.	-----
Bromomethane	N.D.	-----
Chloroethane	N.D.	-----
Trichlorofluoromethane	N.D.	-----
1,1-Dichloroethene	N.D.	-----
Methylene Chloride	N.D.	-----
1,2-Dichloroethene (TOTAL)	N.D.	-----
1,1-Dichloroethane	N.D.	-----
Chloroform	N.D.	82.1
1,1,1-Trichloroethane	N.D.	-----
Carbon Tetrachloride	N.D.	-----
1,2-Dichloroethane	N.D.	-----
Trichloroethene	N.D.	80.9
1,2-Dichloropropane	N.D.	-----
Bromodichloromethane	N.D.	-----
2-Chloroethylvinylether	N.D.	-----
Trans-1,3-Dichloropropene	N.D.	-----
Cis-1,3-Dichloropropene	N.D.	-----
1,1,2-Trichloroethane	N.D.	-----
Tetrachloroethene	N.D.	81.7
Dibromochloromethane	N.D.	-----
Chlorobenzene	N.D.	-----
Bromoform	N.D.	-----
1,1,2,2-Tetrachloroethane	N.D.	-----
1,3-Dichlorobenzene	N.D.	-----
1,4-Dichlorobenzene	N.D.	-----
1,2-Dichlorobenzene	N.D.	-----

  
 David Duong  
 Laboratory Director



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

January 23, 1995

PEL # 9501041

ALL ENVIRONMENTAL, INC.

Attn: Charles Kissick

Project name: Schoonbrood

Project number: 1174

Sample I.D.: WOB-STKP

Date Sampled: Jan 18-19, 1995  
Date Analyzed: Jan 20-23, 1995

Date Submitted: Jan 20, 1995

Method of Analysis: EPA 8010

Detection limit: 5.0 ug/Kg

COMPOUND NAME	CONCENTRATION ( ug/Kg )	SPIKE RECOVERY ( % )
Chloromethane	N.D.	-----
Vinyl Chloride	N.D.	-----
Bromomethane	N.D.	-----
Chloroethane	N.D.	-----
Trichlorofluoromethane	N.D.	-----
1,1-Dichloroethene	N.D.	-----
Methylene Chloride	N.D.	-----
1,2-Dichloroethene (TOTAL)	N.D.	-----
1,1-Dichloroethane	N.D.	-----
Chloroform	N.D.	82.1
1,1,1-Trichloroethane	N.D.	-----
Carbon Tetrachloride	N.D.	-----
1,2-Dichloroethane	N.D.	-----
Trichloroethene	N.D.	80.9
1,2-Dichloropropane	N.D.	-----
Bromodichloromethane	N.D.	-----
2-Chloroethylvinylether	N.D.	-----
Trans-1,3-Dichloropropene	N.D.	-----
Cis-1,3-Dichloropropene	N.D.	-----
1,1,2-Trichloroethane	N.D.	-----
Tetrachloroethene	N.D.	81.7
Dibromochloromethane	N.D.	-----
Chlorobenzene	N.D.	-----
Bromoform	N.D.	-----
1,1,2,2-Tetrachloroethane	N.D.	-----
1,3-Dichlorobenzene	N.D.	-----
1,4-Dichlorobenzene	N.D.	-----
1,2-Dichlorobenzene	N.D.	-----

David Duong  
Laboratory Director





ENVIRONMENTAL  
PROTECTION

96 JUL -9 AM 9:37

June 26, 1996

**FOURTH QUARTERLY  
GROUNDWATER MONITORING  
AND SAMPLING REPORT**

554 27th Street  
Oakland, CA

6-26-96

Project No. 1243

Prepared For

Ms. Joan Schoonbrood  
935 Evelyn Street  
Menlo Park, CA 94025

and

Angela Barbagelata  
15 San Lorenzo Way  
San Francisco, CA 94127

Prepared By

All Environmental, Inc.  
3364 Mt. Diablo Boulevard  
Lafayette, CA 94549  
(800) 801-3224

**AEI**

# ALL ENVIRONMENTAL, INC.

Environmental Engineering & Construction

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ENVIRONMENTAL  
PROTECTION  
95 JUL -8 AM 8:07

June 28, 1996  
Job No. 1243

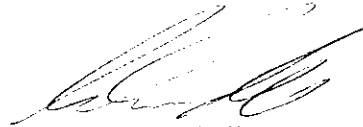
Ms. Jennifer Eberle  
Alameda County Health Care Services Agency  
1131 Harbor Way Parkway, 2nd Floor  
Alameda, CA 94502-6577

Subject: **Fourth Quarterly Groundwater Monitoring and Sampling**  
554 27th Street, Oakland, California

Dear Ms. Eberle:

We are enclosing one copy of the referenced report for your review, which presents results of the fourth episode of quarterly monitoring and sampling at 554 27th Street, Oakland. If you have any questions or comments regarding the findings presented in this report, please call me at (510) 283-6000.

Sincerely,  
**ALL ENVIRONMENTAL, INC.**



Bryan Campbell  
Project Geologist



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## **1.0 INTRODUCTION**

All Environmental, Inc. (AEI) has prepared this report on behalf of Joan Schoonbrood and Angela Barbagelata, in response to their request for quarterly groundwater monitoring at 554 27th Street, Oakland, California (Figure 1: Site Location Map). This report summarizes the fourth episode of quarterly monitoring and sampling which occurred on June 5, 1996. The work was done in accordance with the requirements of the Alameda County Health Care Services Agency (ACHCSA), Department of Environmental Health and included measuring groundwater levels in order to establish groundwater flow direction and gradient at the site, sampling of three groundwater monitoring wells, and analysis of representative water samples in order to establish contaminant levels.

The investigation was conducted to assess contaminant levels in soil and groundwater following the removal of four underground fuel tanks in January, 1995. The scope of work of this investigation is outlined in an AEI report, "Groundwater Investigation Work Plan" dated May 15, 1995, and was approved by Jennifer Eberle, Hazardous Materials Specialist for ACHCSA in a letter dated June 6, 1995.

## **2.0 SITE DESCRIPTION AND BACKGROUND**

The site is located in a commercial zone at 554 27th Street, Oakland, California, and is presently vacant. Refer to Figure 1, Site Location Map. The topography of the site is relatively flat, and slopes gently toward San Francisco Bay, located approximately 1.7 miles to the west.

Four underground storage tanks were removed from the property by AEI in January, 1995. Refer to Figure 2, Site Plan. The underground storage tanks included types: one 6000-gallon gasoline, one 8,000-gallon gasoline, one 10,000-gallon gasoline, and one 500-gallon waste oil.



FROM:  
 US GEOLOGICAL SURVEY  
 OAKLAND WEST QUADRANGLE  
 7.5 MINUTE SERIES  
 PHOTOREVISED 1980

Scale: 1 : 24000

**ALL ENVIRONMENTAL, INC.**  
 3364 MT. DIABLO BOULEVARD, LAFAYETTE, CA

DRAWN BY:

REVISED BY:

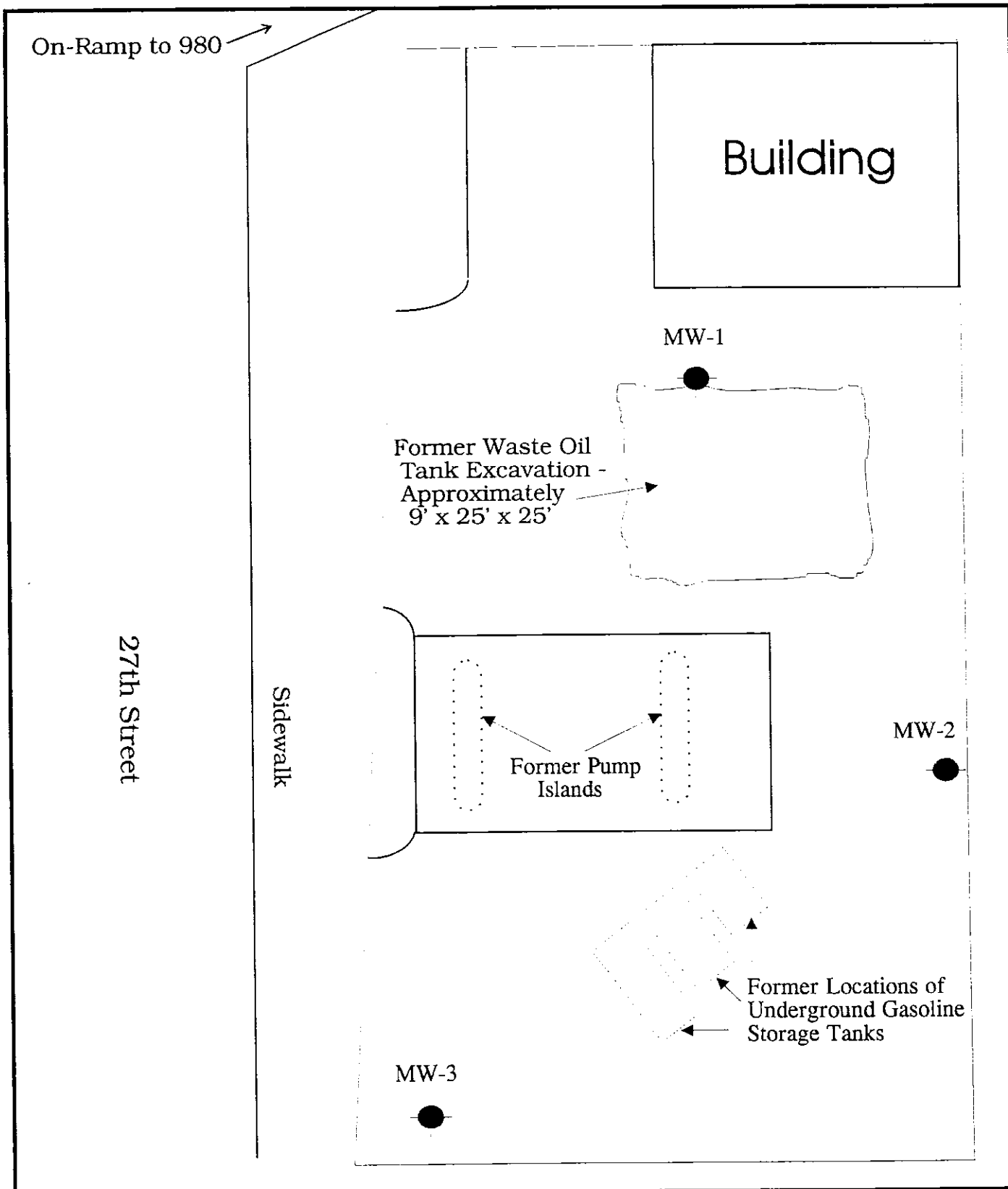
DATE: JUNE, 1996

APPROVED BY:

**SITE LOCATION MAP**

554 27th Street, Oakland

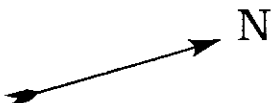
FIGURE 1



MW-1



Monitoring Well Location



Scale: 1" = 20'

**ALL ENVIRONMENTAL, INC.**  
 3364 MT. DIABLO BOULEVARD, LAFAYETTE, CA

DRAWN BY:

DATE: JUNE, 1996

REVISED BY:

APPROVED BY:

**SITE PLAN**

554 27th Street, Oakland

FIGURE 2

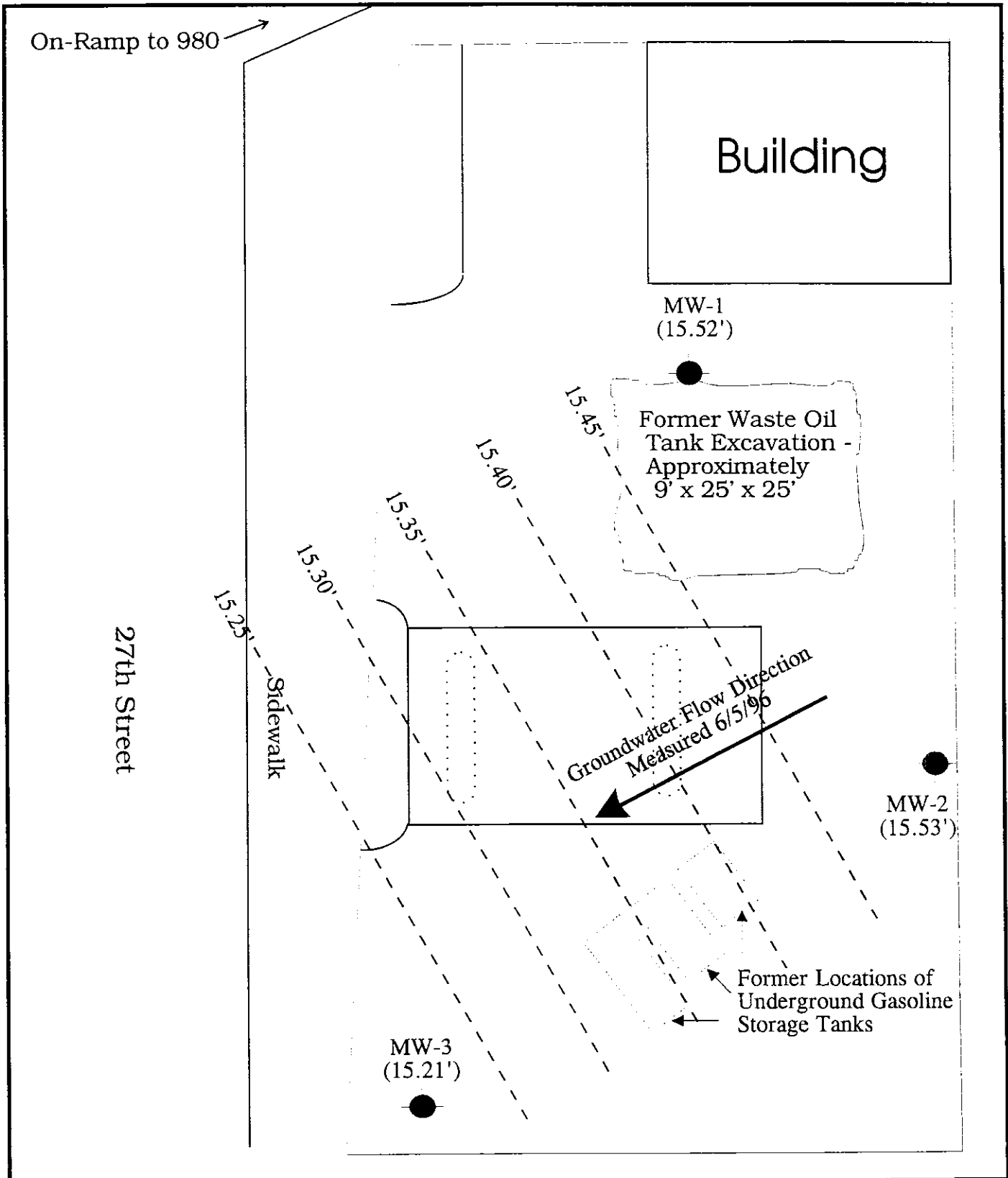
AEI drilled three soil borings and converted each boring into a groundwater monitoring well on June 22, 1995. This subsurface investigation included logging boreholes under the supervision of a Registered Professional Engineer, soil sampling and analyses, well development, and groundwater sampling and analyses.

The levels of contamination in soil samples collected from below the gasoline tank excavation and dispenser islands were found to be fairly low. However, levels of contamination in soil samples from the waste oil tank excavation and stockpile were found to be moderate to high, with as much as 36,000 ppm Total Petroleum Oil & Grease (TOG), and 29 ppb of Benzene.

### **3.0 GEOLOGY AND HYDROGEOLOGY**

According to the soil boring logs recorded on-site by one of AEI's geologists, the near-surface geology of the site consists of silty or sandy clay from the surface to about 10 feet below ground surface. From about 9 feet to 20 feet below ground surface, a gravel-sand-clay mixture was encountered.

Groundwater was first encountered in sand-bearing soil at a depth of about 10 feet below ground surface. Water level measurements made during this the fourth quarterly groundwater monitoring and sampling episode of June 5, 1996 indicated that the static water is at about 8 feet below ground surface. The groundwater flow based on these measurements is to the south-southeast, at a gradient of approximately 0.004 feet per foot. The groundwater gradient is shown in Figure 3: Groundwater Gradient Map. The groundwater flow direction in the previous monitoring event of March 5, 1996, was also towards the south-southeast. Water level elevations are summarized in Table 1 below.

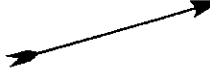


MW-1  
(15.52')

Monitoring Well Location  
and Groundwater Elevation



N



Scale: 1" = 20'

**ALL ENVIRONMENTAL, INC.**  
3364 MT. DIABLO BOULEVARD, LAFAYETTE, CA

DRAWN BY:

DATE: JUNE, 1996

REVISED BY:

APPROVED BY:

**GROUNDWATER GRADIENT**

554 27th Street, Oakland

FIGURE 3

**TABLE 1 - Groundwater Elevations**

DATE	MW - 1	MW - 2	MW - 3
July, 95	15.21	15.29	14.98
October, 95	14.37	14.59	14.55
March, 96	18.75	18.60	17.48
June, 96	15.52	15.53	15.21

All elevations are reported in feet above mean sea level.

#### **4.0 WELL SAMPLING**

On March 5, 1996, water was bailed from each of the three wells and stored in 55-gallon drums. Measurements of pH, temperature, and conductivity were made during bailing of wells. The water level was measured before and after bailing, and returned to a static level shortly after bailing was completed. The Groundwater Well Field Sampling Forms are included in Appendix A.

Groundwater was checked for sheen and free product prior to purging and sampling. No sheen or free product was observed. The samples were taken using a clean disposable bailer. Water was poured from the bailer into amber liter bottles and 40 ml VOA vials and capped so that no head space or visible air bubbles was within the sample containers. The samples were labeled and placed on ice in an ice chest for transportation to McCampbell Analytical Inc. under chain of custody protocol for analysis.



## 5.0 ANALYTICAL RESULTS OF SAMPLES

A total of three water samples were analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg) (EPA Method 8015), Total Petroleum Hydrocarbons as diesel (TPHd) (EPA Method 8015), and Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) (EPA Method 8020). Additionally, the water sample from MW-1 was analyzed for Total Petroleum Oil & Grease (TOG) (EPA Method 5520 B&F), and the LUFT Metals (Cadmium, Chromium, Lead Nickel, and Zinc) (EPA Method 7130, 7190, 7429, 7520, 7950). Laboratory results and chain of custody documents are included in Appendix B. Previous laboratory results and chain of custody documents are included in Appendix C. Groundwater samples taken during the current and previous monitoring episodes were analyzed by McCampbell Analytical, Inc. (State Certification # 1644) in Pacheco, California. Groundwater samples collected in July, 1995 and October, 1995 were analyzed by Priority Environmental Labs (State Certification #1708) in Milpitas, California. Analytical results are presented in Table 2 and Table 3 below:

**TABLE 2 - Groundwater Sample Analytical Data**

WELL	DATE	TPH-GASOLINE (ug/L)	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYL BENZENE (ug/L)	TOTAL XYLENES (ug/L)	TPH-DIESEL (ug/L)
MW - 1	July, 95	ND	ND	ND	ND	ND	ND
	October, 95	ND	ND	ND	ND	ND	ND
	March, 96	ND	ND	ND	ND	ND	ND
	June, 96	ND	ND	ND	ND	ND	ND
MW - 2	July, 95	ND	ND	ND	ND	ND	ND
	October, 95	ND	ND	ND	ND	ND	ND
	March, 96	ND	ND	ND	ND	ND	ND
	June, 96	ND	ND	ND	ND	ND	ND
MW - 3	July, 95	ND	ND	ND	ND	ND	ND
	October, 95	ND	ND	ND	ND	ND	ND
	March, 96	2,300	30	ND	140	22	1,100
	June, 96	150	ND	ND	0.73	ND	58

ug/L = Parts Per Billion (ppb)

ND = Non-Detect

**TABLE 3 - Additional Groundwater Sample Analytical Data**

WELL	DATE	CADMIUM (ug/L)	CHROMIUM (ug/L)	LEAD (ug/L)	NICKEL (ug/L)	ZINC (ug/L)	TOG (ug/L)
MW - 1	July, 95	ND	ND	ND	ND	ND	ND
	October, 95	ND	ND	ND	ND	ND	ND
	March, 96	ND	0.014	ND	ND	0.038	ND
	June, 96	ND	0.027	ND	0.045	0.088	ND

ug/L = Parts Per Billion (ppb)

ND = Non-Detect

## 6.0 CONCLUSIONS AND RECOMMENDATIONS

AEI conducted this the fourth quarterly groundwater monitoring and sampling for the property located at 554 27th Street, Oakland, California on June 5, 1996, in order to determine the presence of contamination in groundwater below the site.

TPHg , BTEX and TPHd concentrations have decreased in well MW-3 during this quarter, and LUFT metals have never been detected in significant concentrations. ACHCSA may require further monitoring of well MW-3. AEI recommends that groundwater samples be analyzed for TPHg, TPHd, and BTEX only.

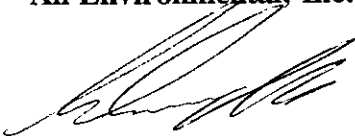
Groundwater analyses from wells MW-1 and MW-2 has not shown any detectable contamination for four quarters of sampling. Since further analysis and monitoring is not necessary in wells MW-1 and MW-2, AEI recommends that these wells be closed and abandoned.

## 7.0 REPORT LIMITATIONS AND SIGNATURES


This report presents a summary of work completed by All Environmental, Inc., including observations and descriptions of site conditions. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide required information, but it cannot be assumed that they are entirely representative of all areas not sampled. All conclusions and recommendations are based on these analyses, observations, and governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

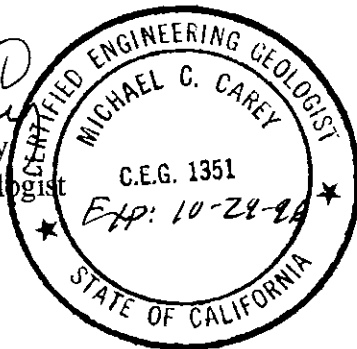
These services have been performed in accordance with the generally accepted practices in the environmental engineering and construction field which existed at the time and location of the work.

**All Environmental, Inc.**



Bryan Campbell  
Project Manager

  
Michael C. Carey  
Engineering Geologist  
CEG 1315



**APPENDIX A**

**GROUNDWATER MONITORING WELL FIELD  
SAMPLING FORMS**

ALL ENVIRONMENTAL INC. -- GROUNDWATER MONITORING WELL FIELD SAMPLING FORM	
<b>Monitoring Well Number: MW-1</b>	
Project Name	Schoonbrood
Job Number	1243
Project Address	554 27th Street
	Oakland, CA
Date of Sampling	6/5/96
Name of Sampler	Bryan Campbell
<b>MONITORING WELL DATA</b>	
Well Casing Diameter (2"/4"/6")	2"
Seal at Grade -- Type and Condition	Cement seal, good condition
Well Cap & Lock -- OK/Replace	Locking expanding, good condition
Elevation of Top of Casing	23.48
Depth of Well	20.00
Depth to Water	7.96
Water Elevation	15.52
Three Well Volumes (gallons)*	
2" casing: (TD - DTW)(0.16)(3)	
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	7
Appearance of Purge Water	Slightly Turbid
<b>GROUNDWATER SAMPLES</b>	
Number of Samples/Container Size	2 liter; 2 40-ml VOA's; 1 500-ml bottle
Groundwater Temp/pH/Conductivity #1:	71.7/6.94/408
Groundwater Temp/pH/Conductivity #2:	68.5/6.93/398
Groundwater Temp/pH/Conductivity #3:	68.3/6.96/398
Appearance of Groundwater Samples	Slightly Turbid
COMMENTS (i.e., sample odor, well recharge time & percent, etc.)	
No odor; fast recharge.	

TD - Total Depth of Well

DTW - Depth To Water

<b>ALL ENVIRONMENTAL INC. -- GROUNDWATER MONITORING WELL FIELD SAMPLING FORM</b>	
<b>Monitoring Well Number: MW-2</b>	
Project Name	Schoonbrood
Job Number	1243
Project Address	554 27th Street
	Oakland, CA
Date of Sampling	6/5/96
Name of Sampler	Bryan Campbell
<b>MONITORING WELL DATA</b>	
Well Casing Diameter (2"/4"/6")	2"
Seal at Grade -- Type and Condition	Cement seal, good condition
Well Cap & Lock -- OK/Replace	Locking expanding, good condition
Elevation of Top of Casing	23.91
Depth of Well	20.00
Depth to Water	8.38
Water Elevation	15.53
Three Well Volumes (gallons)*	
2" casing: (TD - DTW)(0.16)(3)	
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	7
Appearance of Purge Water	Clear to Slightly Turbid
<b>GROUNDWATER SAMPLES</b>	
Number of Samples/Container Size	1 liter; 2 40-ml VOA's
Groundwater Temp/pH/Conductivity #1:	72.8/6.98/329
Groundwater Temp/pH/Conductivity #2:	72.6/7.01/324
Groundwater Temp/pH/Conductivity #3:	72.8/7.02/309
Appearance of Groundwater Samples	Slightly Turbid
COMMENTS (i.e., sample odor, well recharge time & percent, etc.)	
No odor; fast recharge.	

TD - Total Depth of Well

DTW - Depth To Water

ALL ENVIRONMENTAL INC. -- GROUNDWATER MONITORING WELL FIELD SAMPLING FORM	
<b>Monitoring Well Number: MW-3</b>	
Project Name	Schoonbrood
Job Number	1243
Project Address	554 27th Street
	Oakland, CA
Date of Sampling	6/5/96
Name of Sampler	Bryan Campbell
MONITORING WELL DATA	
Well Casing Diameter (2"/4"/6")	2"
Seal at Grade -- Type and Condition	Cement seal, good condition
Well Cap & Lock -- OK/Replace	Locking expanding, good condition
Elevation of Top of Casing	23.33
Depth of Well	20.00
Depth to Water	8.12
Water Elevation	15.21
Three Well Volumes (gallons)*	
2" casing: (TD - DTW)(0.16)(3)	
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	7
Appearance of Purge Water	Clear to Slightly Turbid
GROUNDWATER SAMPLES	
Number of Samples/Container Size	1 liter; 2 40-ml VOA's
Groundwater Temp/pH/Conductivity #1:	74.4/7.04/578
Groundwater Temp/pH/Conductivity #2:	72.7/7.09/567
Groundwater Temp/pH/Conductivity #3:	71.7/7.12/566
Appearance of Groundwater Samples	Slightly Turbid
COMMENTS (i.e., sample odor, well recharge time & percent, etc.)	
No odor; fast recharge.	

TD - Total Depth of Well  
DTW - Depth To Water



**APPENDIX B**

**CURRENT LABORATORY ANALYSES WITH CHAIN OF  
CUSTODY DOCUMENTATION**

All Environmental, Inc. 3364 Mt. Diablo Blvd. Lafayette, CA 94549	Client Project ID: # 1243	Date Sampled: 06/05/96 ✓
		Date Received: 06/05/96
	Client Contact: Bryan Campbell ✓	Date Extracted: 06/05/96
	Client P.O:	Date Analyzed: 06/05/96

**Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\*, with BTEX\***

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) <sup>+</sup>	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
65684	MW-1	W	ND	ND	ND	ND	ND	101
65685	MW-2	W	ND	ND	ND	ND	ND	99
65686	MW-3	W	150,d ✓	ND ✓	ND ✓	0.73 ✓	ND ✓	100
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W		50 ug/L	0.5	0.5	0.5	0.5	
	S		1.0 mg/kg	0.005	0.005	0.005	0.005	

\* water and vapor samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

# cluttered chromatogram; sample peak coelutes with surrogate peak

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

All Environmental, Inc. 3364 Mt. Diablo Blvd. Lafayette, CA 94549	Client Project ID: # 1243	Date Sampled: 06/05/96
		Date Received: 06/05/96
	Client Contact: Bryan Campbell	Date Extracted: 06/05/96
	Client P.O.:	Date Analyzed: 06/05/96

**Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel \***

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d) <sup>+</sup>	% Recovery Surrogate
65684	MW-1	W	ND	92
65685	MW-2	W	ND	95
65686	MW-3	W	58,d/b	95
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W		50 ug/L	
	S		1.0 mg/kg	

\* water samples are reported in ug/L, soil samples in mg/kg, and all TCLP and STLC extracts in mg/L

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553  
 Tele: 510-798-1620 Fax: 510-798-1622

All Environmental, Inc. 3364 Mt. Diablo Blvd. Lafayette, CA 94549	Client Project ID: # 1243	Date Sampled: 06/05/96
		Date Received: 06/05/96
	Client Contact: Bryan Campbell	Date Extracted: 06/05/96
	Client P.O:	Date Analyzed: 06/05/96

**Petroleum Oil & Grease (with Silica Gel Clean-up) \***

EPA methods 413.1. 9070 or 9071; Standard Methods 5520 D/E&F or 503 D&E for solids and 5520 B&F or 503 A&E for liquids

Lab ID	Client ID	Matrix	Oil & Grease *
65684	MW-1	W	ND
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W		5 mg/L
	S		50 mg/kg

\* water samples are reported in mg/L and soils in mg/kg  
 h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5vol. % sediment.

All Environmental, Inc. 3364 Mt. Diablo Blvd. Lafayette, CA 94549	Client Project ID: # 1243	Date Sampled: 06/05/96
		Date Received: 06/05/96
	Client Contact: Bryan Campbell	Date Extracted: 06/07-06/14/96
	Client P.O:	Date Analyzed: 06/07-06/14/96

**Dissolved LUFT Metals\***

EPA analytical methods 6010/200.7, 239.2<sup>+</sup>

Lab ID	Client ID	Matrix	Extraction <sup>o</sup>	Cadmium	Chromium	Lead	Nickel	Zinc	% Rec. Surrogate
65684	MW-1	W	TTLIC	ND	0.027	ND	0.045	0.088	101
			mg/L						
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	S	TTLIC	0.5 mg/L	0.5	3.0	2.0	1.0		
	W	TTLIC	0.01 mg/kg	0.005	0.005	0.02	0.01		
	---	STLC,TCLP	0.01 mg/L	0.05	0.2	0.05	0.05		

\* soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L  
 + Lead is analysed using EPA method 6010 (ICP) for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples  
 o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLIC), 3040(organic matrices,TTLIC), 3050(solids,TTLIC); STLC from CA Title 22  
 # surrogate diluted out of range; N/A means surrogate not applicable to this analysis  
 i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

## QC REPORT FOR HYDROCARBON ANALYSES

Date: 06/05/96

Matrix: Water

Analyte	Concentration (ug/L) Sample (#65629)			Amount Spiked	% Recovery		RPD
	MS	MSD			MS	MSD	
TPH (gas)	0.0	101.5	104.8	100.0	101.5	104.8	3.2
Benzene	0.0	9.4	9.5	10.0	94.0	95.0	1.1
Toluene	0.0	9.4	9.6	10.0	94.0	96.0	2.1
Ethyl Benzene	0.0	9.3	9.4	10.0	93.0	94.0	1.1
Xylenes	0.0	27.6	28.1	30.0	92.0	93.7	1.8
TPH (diesel)	0	160	156	150	107	104	2.8
TRPH (oil & grease)	0	23800	24300	23700	100	103	2.1

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

## QC REPORT FOR METALS

Date: 06/14/96

Matrix: Water

Extraction: TTLC

Analyte	Concentration (mg/L)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
Arsenic	0.0	4.8	4.8	5.0	96	97	0.9
Selenium	0.0	5.0	5.0	5.0	100	100	0.4
Molybdenum	0.0	4.5	4.5	5.0	91	90	1.1
Silver	0.0	0.5	0.5	1.0	48	46	4.3
Thallium	0.0	5.7	5.5	5.0	114	110	3.3
Barium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nickel	0.0	5.0	4.9	5.0	100	98	2.0
Chromium	0.0	4.7	4.6	5.0	93	91	2.3
Vanadium	0.0	4.6	4.4	5.0	91	88	4.0
Beryllium	0.0	4.8	4.6	5.0	97	93	4.1
Zinc	0.0	4.7	4.6	5.0	94	91	2.9
Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Antimony	0.0	4.3	4.2	5.0	86	83	2.8
Lead	0.0	4.5	4.4	5.0	91	89	1.7
Cadmium	0.0	4.9	4.9	5.0	99	98	1.1
Cobalt	0.0	4.5	4.4	5.0	89	88	1.8
Mercury	N/A	N/A	N/A	N/A	N/A	N/A	N/A

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

6520AALEX49

**McCAMPBELL ANALYTICAL**

110 2nd AVENUE, # D7

(510) 798-1820

PACHECO, CA 94553

FAX (510) 798-1822

**CHAIN OF CUSTODY RECORD**

TURN AROUND TIME:  RUSH  24 HOUR  48 HOUR  5 DAY

REPORT TO: *Bryan Campbell* BILL TO:

COMPANY: *All Environmental Inc*

TELE: *510-283-6000*

FAX #:

PROJECT NUMBER: *1247*

PROJECT NAME:

PROJECT LOCATION: *Oakland*

SAMPLER SIGNATURE: *[Signature]*

**ANALYSIS REQUEST**

**OTHER**

COMMENTS

SAMPLE ID	LOCATION	SAMPLING		# CONTAINERS	TYPE CONTAINERS	MATRIX					METHOD PRESERVED			BTEX & TPH as Gasoline (602/8020 & 8015)	THP as Diesel (8015)	Total Petroleum Oil & Grease (5520 ENF/5520 BAF)	Total Petroleum Hydrocarbons (118.1)	EPA 601/8010	EPA 602/8020	EPA 608/8080	EPA 608/8080 - PCBs Only	EPA 624/8240/8260	EPA 625/8270	CAN - 17 Metals	EPA - Priority Pollutant Metals	LEAD (7240.7421/239.2/6010)	ORGANIC LEAD	PCB	5 LUGT Metals (10/15/02)	OTHER					
		DATE	TIME			WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	OTHER																						
MW-1		6/5				X							X	X	X																				
MW-2						X							X	X	X																				
MW-3						X							X	X	X																				

65684  
65685  
65686

RELINQUISHED BY: <i>Bryan Campbell</i>	DATE: <i>6/5</i>	TIME: <i>6:32</i>	RECEIVED BY: <i>[Signature]</i>
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY LABORATORY:

REMARKS: **ICE!** **GOOD CONDITION** **HEAD SPACE ABSENT** **PRESERVATIVE APPROPRIATE** **CONTAINERS**

*7/1/02 6:00 PM*  
*per analytical*  
*note*



**APPENDIX C**

**PREVIOUS LABORATORY ANALYSES WITH CHAIN OF  
CUSTODY DOCUMENTATION**

All Environmental, Inc. 2641 Crow Canyon Rd., # 5 San Ramon, CA94583	Client Project ID: # 1243; Schoonbrood	Date Sampled: 03/05/96
		Date Received: 03/05/96
	Client Contact: Jennifer Anderson	Date Extracted: 03/06-03/07/96
	Client P.O.:	Date Analyzed: 03/06-03/07/96

**Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\*, with BTEX\***

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) <sup>+</sup>	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
62134	MW-1	W	ND	ND	ND	ND	ND	99
62135	MW-2	W	ND	ND	ND	ND	ND	101
62136	MW-3	W	2300,a	30	ND	140	22	100
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W	50 ug/L	0.5	0.5	0.5	0.5	0.5	
	S	1.0 mg/kg	0.005	0.005	0.005	0.005	0.005	

\* water and vapor samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

# cluttered chromatogram; sample peak coelutes with surrogate peak

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

All Environmental, Inc. 2641 Crow Canyon Rd., # 5 San Ramon, CA94583	Client Project ID: # 1243; Schoonbrood	Date Sampled: 03/05/96
		Date Received: 03/05/96
	Client Contact: Jennifer Anderson	Date Extracted: 03/06/96
	Client P.O.:	Date Analyzed: 03/06-03/07/96

**Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel \***

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d) <sup>+</sup>	% Recovery Surrogate
62134	MW-1	W	ND	107
62135	MW-2	W	ND	106
62136	MW-3	W	1100,d	106
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W		50 ug/L	
	S		1.0 mg/kg	

\* water samples are reported in ug/L, soil samples in mg/kg, and all TCLP and STLC extracts in mg/L

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.



All Environmental, Inc. 2641 Crow Canyon Rd., # 5 San Ramon, CA 94583	Client Project ID: # 1243; Schoonbrood	Date Sampled: 03/05/96
		Date Received: 03/05/96
	Client Contact: Jennifer Anderson	Date Extracted: 03/06/96
	Client P.O:	Date Analyzed: 03/07-03/08/96

**LUFT Metals\***

EPA analytical methods 6010/200.7, 239.2\*

Lab ID	Client ID	Matrix	Extraction <sup>o</sup>	Cadmium	Chromium	Lead	Nickel	Zinc	% Rec. Surrogate
62134	MW-1	W	TTLC	ND	0.014	ND	ND	0.038	104
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	S	TTLC	0.5 mg/kg	0.5	3.0	2.0	1.0		
	W	TTLC	0.01 mg/L	0.005	0.005	0.02	0.01		
	---	STLC, TCLP	0.01 mg/L	0.05	0.2	0.05	0.05		

\* soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L  
 + Lead is analysed using EPA method 6010 (ICP) for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples  
 o EPA extraction methods 1311(TCLP), 3010/3020(water, TTLC), 3040(organic matrices, TTLC), 3050(solids, TTLC); STLC from CA Title 22  
 # surrogate diluted out of range; N/A means surrogate not applicable to this analysis  
 i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

## QC REPORT FOR HYDROCARBON ANALYSES

Date: 03/06/96-03/07/96

Matrix: Water

Analyte	Concentration (ug/L)			Amount Spiked	% Recovery		
	Sample (#62135)	MS	MSD		MS	MSD	RPD
TPH (gas)	0.0	100.1	99.3	100.0	100.1	99.3	0.8
Benzene	0.0	9.8	9.9	10.0	98.0	99.0	1.0
Toluene	0.0	10.2	10.3	10.0	102.0	103.0	1.0
Ethyl Benzene	0.0	10.4	10.5	10.0	104.0	105.0	1.0
Xylenes	0.0	32.0	32.0	30.0	106.7	106.7	0.0
TPH (diesel)	0	156	162	150	104	108	3.4
TRPH (oil & grease)	0	21900	22300	23700	92	94	1.8

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

## QC REPORT FOR AA METALS

Date: 03/08/96

Matrix: Water

Analyte	Concentration (mg/L)			Amount	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
Total Lead	0.00	5.44	5.53	5.00	109	111	1.5
Total Cadmium	0.00	5.54	5.60	5.00	111	112	1.0
Total Chromium	0.00	5.12	5.12	5.00	102	102	0.1
Total Nickel	0.00	5.10	5.07	5.00	102	101	0.7
Total Zinc	0.00	5.31	5.29	5.00	106	106	0.2
Total Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Organic Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$







# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

October 23, 1995

PEL # 9510058

ALL ENVIRONMENTAL, INC.

Attn: Mike Killoran

Re: Three water samples for Gasoline/BTEX, Diesel, and Oil & Grease analyses.

Project name: Schoon brood

Project number: 1293

Date sampled: Oct 18, 1995

Date submitted: Oct 19, 1995

Date extracted: Oct 19-23, 1995

Date analyzed: Oct 19-23, 1995

## RESULTS:

SAMPLE I.D.	Gasoline (ug/L)	Diesel (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylene (ug/L)	Oil & Grease (mg/L)
MW-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	---
MW-3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	---
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	85.6%	90.7%	99.8%	86.4%	109.7%	94.5%	---
Detection limit	50	50	0.5	0.5	0.5	0.5	0.5
Method of Analysis	5030 / 8015	3510 / 8015	602	602	602	602	5520 C & F

David Duong  
Laboratory Director

RECEIVED OCT 24 1995



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

October 23, 1995

PEL # 9510058

ALL ENVIRONMENTAL, INC.

Attn: Mike Killoran

Re: One water sample for Cadmium, Chromium, Lead, Nickel, and Zinc analyses.

Project name: Schoonbrood

Project number: 1293

Date sampled: Oct 18, 1995

Date submitted: Oct 19, 1995

Date extracted: Oct 19-23, 1995

Date analyzed: Oct 19-23, 1995

## RESULTS:

SAMPLE I.D.	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Nickel (mg/L)	Zinc (mg/L)
MW-1	N.D.	N.D.	N.D.	N.D.	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.
Detection limit	0.05	0.05	0.05	0.5	0.5
Method of Analysis	7130	7190	7420	7520	7950

David Duong  
Laboratory Director

RECEIVED OCT 24 1995

**ALL ENVIRONMENTAL, INC.**  
 2641 Crow Canyon Road, Ste. 5  
 San Ramon, CA 94583  
 (510) 820-3224 FAX: (510) 838-2687

PEL # 9510058  
 INV # 26443

**Chain of Custody**

DATE: 10/18/95 PAGE: 1 OF: 1

AEI PROJECT MANAGER: Mike Killoran  
 PROJECT NAME: Schoonbrood  
 PROJECT NUMBER: 1243  
 SIGNATURE: [Signature]  
 TOTAL # OF CONTAINERS: 11  
 RECD. GOOD COND./COLD: yes

**ANALYSIS REQUEST**

SAMPLE I.D.	DATE	TIME	MATRIX	ANALYSIS REQUEST										NUMBER OF CONTAINERS		
				TPH-Casoline (EPA 500.8015)	TPH-Casoline (EPA 500.8015) w/ STEK (EPA 602.8020)	TPH-Diesel (EPA 3510/3550.8015)	FURGEABLE AROMATICS BTX (EPA 602.8020)	TOTAL OIL & GREASE (EPA 5520 E&F)	TOTAL LEAD (AA) (EPA 7430)	VOLATILE ORGANIC COMPOUNDS (EPA 8240)	LUFT Metals (EPA 7130/7160, 7430, 7530, 7930)	STLC CAM 17 (EPA 1310/6010)	PCI REACTIVITY CORROSIIVITY (EPA 8240)			
MW-1	10/18/95		W		X	X		X				X				5
MW-2	"		W		X	X										3
MW-3	"		W		X	X										3

ANALYTICAL LAB: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 PHONE: ( ) \_\_\_\_\_ FAX: ( ) \_\_\_\_\_  
 INSTRUCTIONS/COMMENTS: \_\_\_\_\_

RELINQUISHED BY: 1  
Tina Kelly  
 Signature  
Tina Kelly  
 Printed Name  
 All Environmental  
 Company  
 Time 8:35 Date 10/19/95

RECEIVED BY: 1  
[Signature]  
 Signature  
TERRA LAM  
 Printed Name  
PEL  
 Company  
 Time 1:20 Date 10/19/95

RELINQUISHED BY: 2  
 Signature  
 Printed Name  
 Company  
 Date

RECEIVED BY: 2  
 Signature  
 Printed Name  
 Company  
 Date



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

July 13, 1995

PEL # 9507012

ALL ENVIRONMENTAL, INC.

Attn: Mike Killoran

Re: Three water samples for Gasoline/BTEX, Diesel, and Oil & Grease analyses.


Project name: Schoonbrood  
Project number: 1243

Date sampled: Jul 10, 1995  
Date extracted: Jul 11-12, 1995

Date submitted: Jul 11, 1995  
Date analyzed: Jul 11-12, 1995

## RESULTS:

SAMPLE I.D.	Gasoline (ug/L)	Diesel (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylene (ug/L)	Oil & Grease (mg/L)
MW-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	---
MW-3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	---
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	94.6%	87.8%	81.2%	85.8%	80.1%	98.3%	---
Detection limit	50	50	0.5	0.5	0.5	0.5	10
Method of Analysis	5030 / 8015	3510 / 8015	602	602	602	602	5520 C & F

  
David Duong  
Laboratory Director



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

July 13, 1995

PEL # 9507012

ALL ENVIRONMENTAL, INC.

Attn: Mike Killoran

Re: One water sample for Cadmium, Chromium, Lead, Nickel, and Zinc analyses.

Project name: Schoonbrood

Project number: 1243

Date sampled: Jul 10, 1995

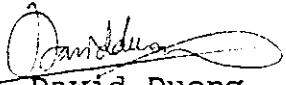
Date submitted: Jul 11, 1995

Date extracted: Jul 11-13, 1995

Date analyzed: Jul 11-13, 1995

## RESULTS:

SAMPLE I.D.	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Nickel (mg/L)	Zinc (mg/L)
MW-1	N.D.	N.D.	N.D.	N.D.	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.
Detection limit	0.10	0.10	0.05	0.10	0.10
Method of Analysis	7130	7190	7420	7520	7950

  
David Duong  
Laboratory Director



**THIRD QUARTERLY  
GROUNDWATER MONITORING  
AND SAMPLING REPORT**

3-28-96

554 27th Street  
Oakland, CA

Prepared For

Ms. Joan Schoonbrood  
PO Box 7442  
Menlo Park, CA 94025

Prepared By

All Environmental, Inc.  
2641 Crow Canyon Road, Suite 5  
San Ramon, CA 94583

March 28, 1996

# ALL ENVIRONMENTAL, INC.

*Environmental Engineering & Construction*

---

March 28, 1996  
Job No. 1243

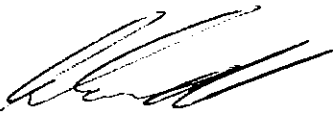
Ms. Jennifer Eberle  
Alameda County Health Care Services Agency  
1131 Harbor Way Parkway, 2nd Floor  
Alameda, CA 94502-6577

Subject: **Third Quarterly Groundwater Monitoring and Sampling**  
554 27th Street, Oakland, California

Dear Ms. Eberle:

We are enclosing one copy of the referenced report for your review, which presents results of the third episode of quarterly monitoring and sampling at 554 27th Street, Oakland. If you have any questions or comments regarding the findings presented in this report, please call me at (510) 820-3224.

Sincerely,  
**ALL ENVIRONMENTAL, INC.**



Bryan Campbell  
Project Geologist



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- APPENDIX B      CURRENT LABORATORY ANALYSES WITH CHAIN  
                         OF CUSTODY DOCUMENTATION
- APPENDIX C      PREVIOUS LABORATORY ANALYSES WITH CHAIN  
                         OF CUSTODY DOCUMENTATION

## **1.0 INTRODUCTION**

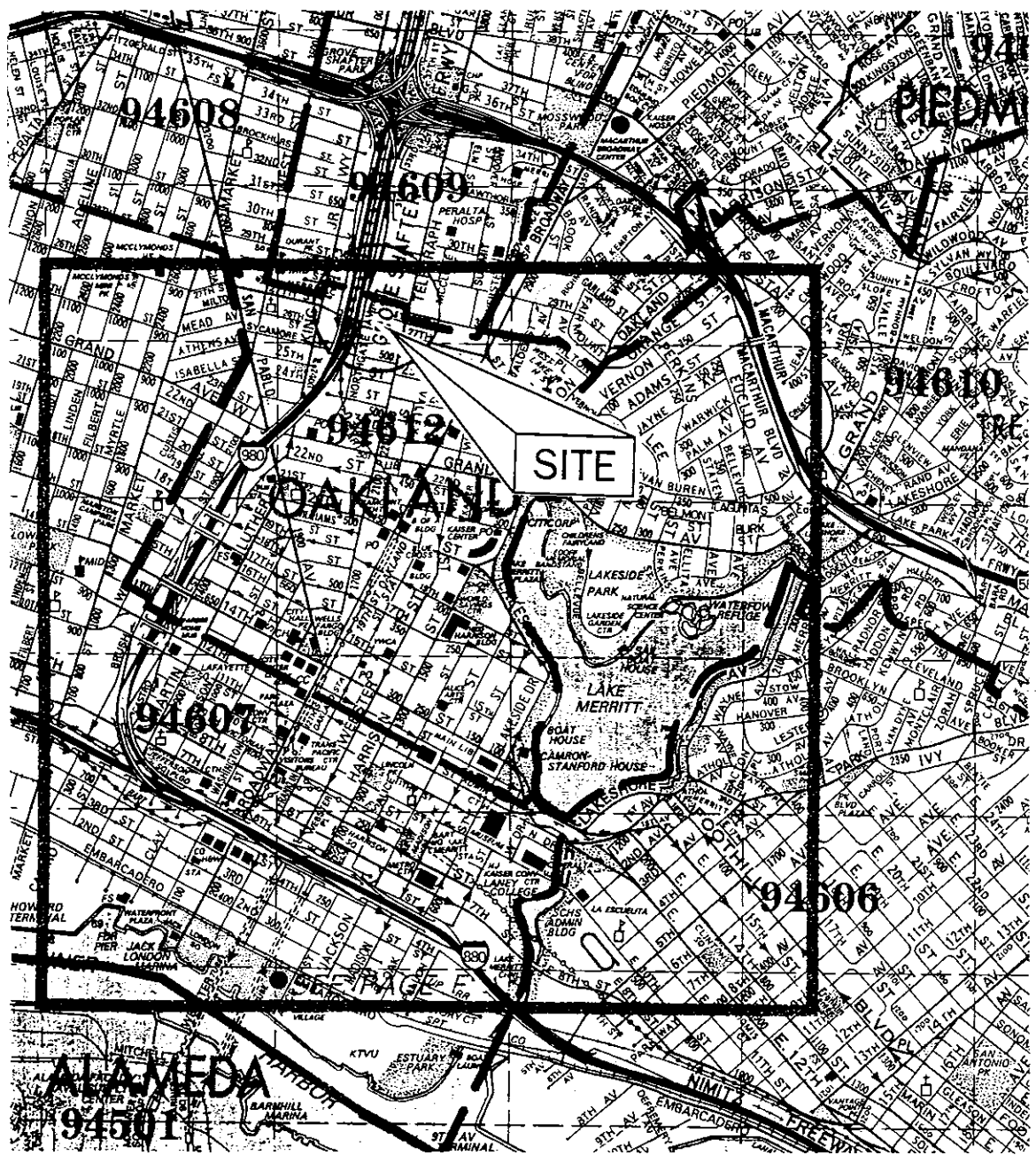
All Environmental, Inc. (AEI) has prepared this report on behalf of Joan Schoonbrood, in response to her request for quarterly groundwater monitoring at 554 27th Street, Oakland, California (Figure 1: Site Location Map). This report summarizes the third episode of quarterly monitoring and sampling which occurred on March 5, 1996. The work involved measuring groundwater levels in order to establish groundwater flow direction and gradient at the site, the sampling of three groundwater monitoring wells and obtaining representative water samples in order to establish contaminant levels.

The investigation included the sampling of three groundwater monitoring wells and obtaining representative water samples for analyses and was authorized by the property owner in accordance with the requirements of the Alameda County Health Care Services Agency (ACHCSA), Department of Environmental Health. The investigation was conducted to assess contaminant levels in soil and groundwater following the removal of four underground fuel tanks in January, 1995. The scope of work of this investigation is outlined in an AEI report, "Groundwater Investigation Work Plan" dated May 15, 1995, and was approved by Jennifer Eberle, Hazardous Materials Specialist for ACHCSA in a letter dated June 6, 1995.

## **2.0 SITE DESCRIPTION AND BACKGROUND**

The site is located in a commercial zone at 554 27th Street, Oakland, California, and is presently vacant. Refer to Figure 1, Site Location Map. The topography of the site is relatively flat, and slopes gently toward San Francisco Bay, located approximately 1.7 miles to the west.

Four underground storage tanks were removed from the property by AEI in January, 1995. Refer to Figure 2, Site Plan. The underground storage tanks were of the following types: one



© Thomas Bros. 1993

Scale: 1" = 2200'

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

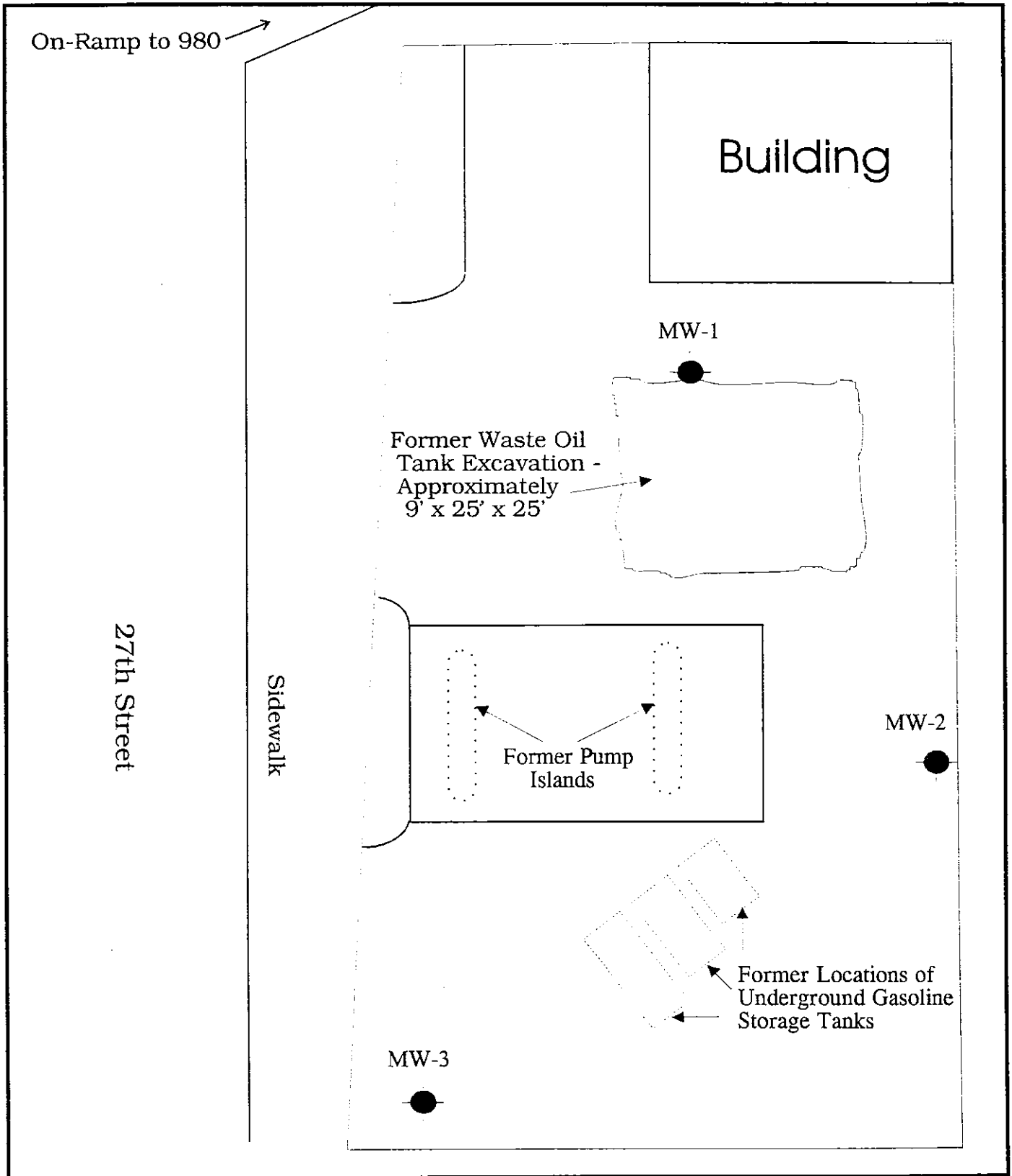
DRAWN BY: MK  
 DATE: May, 1995

REVISED BY:  
 APPROVED BY:

**SITE LOCATION MAP**

554 27th Street, Oakland

FIGURE 1



MW-1



Monitoring Well Location

N



Scale: 1" = 20'

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

DRAWN BY:

DATE: MAR. 1996

REVISED BY:

APPROVED BY:

**SITE PLAN**

554 27th Street, Oakland

FIGURE 2

6000-gallon gasoline, one 8,000-gallon gasoline, one 10,000-gallon gasoline, and one 500-gallon waste oil.

AEI drilled three soil borings and converted each boring into a groundwater monitoring well on June 22, 1995. This subsurface investigation included logging boreholes under the supervision of a Registered Professional Engineer, soil sampling and analyses, well development, and groundwater sampling and analyses.

The levels of contamination in soil samples collected from below the gasoline tank excavation and from beneath the dispenser islands were found to be fairly low. However, levels of contamination in soil samples from the waste oil tank excavation and stockpile were found to be moderate to high, with as much as 36,000 ppm Total Petroleum Oil & Grease (TOG), and 29 ppb of Benzene.

### **3.0 GEOLOGY AND HYDROGEOLOGY**

According to the soil boring logs recorded on-site by one of AEI's geologists, the near-surface geology of the site consists of silty or sandy clay from the surface to about 10 feet below ground surface. From about 9 feet to 20 feet below ground surface, a gravel-sand-clay mixture was encountered.

Groundwater was first encountered in sand-bearing soil during drilling at a depth of about 10 feet below ground surface. Water level measurements made during this third quarterly groundwater monitoring and sampling episode of March 5, 1996 indicated that the static water was at about 5 feet below ground surface. The groundwater flow based on these measurements is to the south-southeast, and the gradient is approximately 0.012 feet per foot. The groundwater flow direction in the previous monitoring event of October, 1995, was towards the southwest. The current

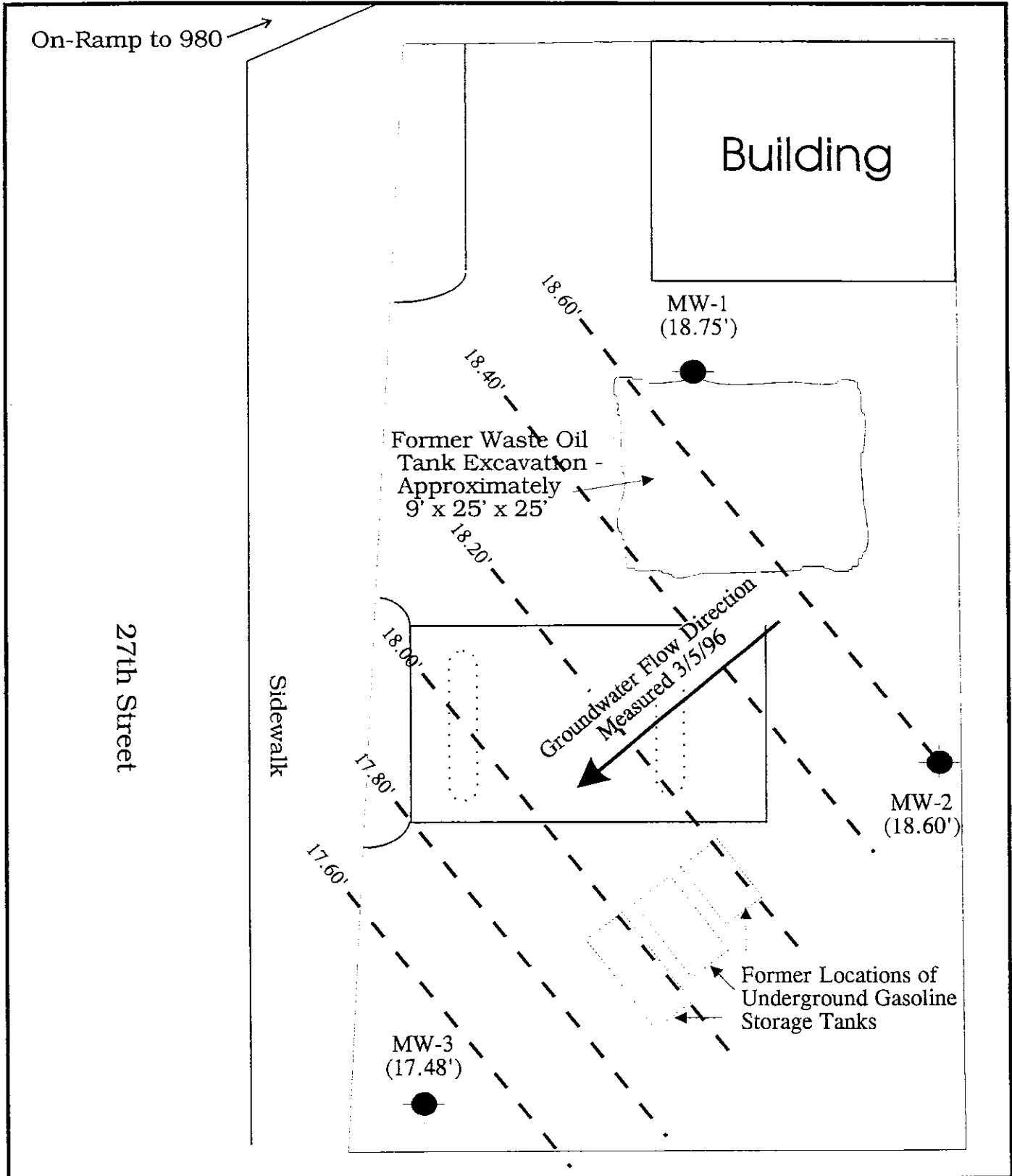
groundwater flow represents a shift in the direction of groundwater flow beneath the subject property. The water level elevations to date used in arriving at the groundwater gradient and flow direction are shown in Figure 3, Groundwater Gradient, and are summarized in the table below:

**Table 1 - Water Level Measurements - July 10, 1995**

<b>Well</b>	<b>Depth to Water (feet)</b>	<b>Top of Casing Elevation (feet)</b>	<b>Groundwater Elevation (feet)</b>
MW-1	8.27	23.48	15.21
MW-2	8.62	23.91	15.29
MW-3	8.35	23.33	14.98

**Table 2 - Water Level Measurements - October 18, 1995**

<b>Well</b>	<b>Depth to Water (feet)</b>	<b>Top of Casing Elevation (feet)</b>	<b>Groundwater Elevation (feet)</b>
MW-1	9.11	23.48	14.37
MW-2	9.32	23.91	14.59
MW-3	8.78	23.33	14.55



MW-1 (18.75')

Monitoring Well Location and Groundwater Elevation

N

Scale: 1" = 20'

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

DRAWN BY:	REVISED BY:
DATE: MAR. 1995	APPROVED BY:

**GROUNDWATER GRADIENT**

554 27th Street, Oakland	FIGURE 3
--------------------------	----------



**Table 3 - Water Level Measurements - March 5, 1996**

<b>Well</b>	<b>Depth to Water (feet)</b>	<b>Top of Casing Elevation (feet)</b>	<b>Groundwater Elevation (feet)</b>
MW-1	4.73	23.48	18.75
MW-2	5.31	23.91	18.60
MW-3	5.85	23.33	17.48

#### **4.0 WELL SAMPLING**

On March 5, 1996, water was bailed from each of the three wells and stored in 55-gallon drums. Measurements of pH, temperature, and conductivity were made during bailing of wells. The water level was measured before and after bailing, and returned to a static level shortly after bailing was completed. The Groundwater Well Field Sampling Forms are included in Appendix A.

Groundwater was checked for sheen and free product prior to purging and sampling. No sheen or free product was observed. The samples were taken using a clean disposable bailer. Water was poured from the bailer into amber liter bottles and 40 ml VOA vials and capped so that no head space or visible air bubbles was within the sample containers. The samples were labeled and placed on ice in an ice chest for transportation to McCampbell Analytical Inc. under chain of custody protocol for analysis.

#### **5.0 ANALYTICAL RESULTS OF SAMPLES**

A total of three water samples were analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg) (EPA Method 8015), Total Petroleum Hydrocarbons as diesel (TPHd) (EPA Method

8015), and Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) (EPA Method 8020). Additionally, the water sample from MW-1 was analyzed for Total Petroleum Oil & Grease (TOG) (EPA Method 5520 B&F), and the LUFT Metals (Cadmium, Chromium, Lead Nickel, and Zinc) (EPA Method 7130, 7190, 7429, 7520, 7950). Laboratory results and chain of custody documents are included in Appendix B. Previous laboratory results and chain of custody documents are included in Appendix C. Groundwater samples taken during the current monitoring episode were analyzed by McCampbell Analytical, Inc. (State Certification # 1644) in Pacheco, California. Groundwater samples collected between July, 1995 through October, 1995 were analyzed by Priority Environmental Labs (State Certification #1708) in Milpitas, California.

Analytical results of water sample analyses are presented in the tables below:

**Table 4 - Water Sample Analysis Results - Well MW-1**

Compound	July 1995	October 1995	March 1996
TPHg (ug/L)	ND	ND	ND
Benzene (ug/L)	ND	ND	ND
Toluene (ug/L)	ND	ND	ND
Et. Benz. (ug/L)	ND	ND	ND
Xylene (ug/L)	ND	ND	ND
TPHd (ug/L)	ND	ND	ND
TOG (mg/L)	ND	ND	ND
Cadmium (mg/L)	ND	ND	ND
Chromium (mg/L)	ND	ND	0.014
Lead (mg/L)	ND	ND	ND
Nickel (mg/L)	ND	ND	ND
Zinc (mg/L)	ND	ND	0.038

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

**Table 5 - Water Sample Analysis Results - Well MW-2**

Compound	July 1995	October 1995	March 1996
TPHg (ug/L)	ND	ND	ND
Benzene (ug/L)	ND	ND	ND
Toluene (ug/L)	ND	ND	ND
Et. Benz. (ug/L)	ND	ND	ND
Xylene (ug/L)	ND	ND	ND
TPHd (ug/L)	ND	ND	ND

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

W-SW at 0.03

↑

Table 6 - Water Sample Analysis Results - Well MW-3

S at 0.0047/A

S-SE at 0.012

Compound	July 1995	October 1995	March 1996
TPHg (ug/L)	ND	ND	2,300
Benzene (ug/L)	ND	ND	30
Toluene (ug/L)	ND	ND	ND
Et. Benz. (ug/L)	ND	ND	140
Xylene (ug/L)	ND	ND	22
TPHd (ug/L)	ND	ND	1,100

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

## 6.0 CONCLUSIONS AND RECOMMENDATIONS

AEI conducted this the third quarterly groundwater monitoring and sampling for the property located at 554 27th Street, Oakland, California on March 5, 1996, in order to determine the presence of contamination in groundwater below the site. The groundwater flow beneath the subject property shifted from southwest in the previous monitoring episode, to south-southeast in the current monitoring episode. Well MW-3 is now directly downgradient from the location of the three former underground gasoline storage tanks at the subject property.

Due to this shift, higher levels of contamination would be expected in groundwater samples from well MW-3. In fact, water samples obtained for this quarterly groundwater monitoring event indicated that concentrations of 2,300 ppb TPHg, 1,100 ppb TPHd, and 30 ppb Benzene were detected in samples from well MW-3 for the first time. According to Title 22, Article 5.5, the Maximum Contaminant Level (MCL) for Benzene in drinking water is 1 ppb. However, the water below the site is non-potable. Minor concentrations of Ethylbenzene and Xylene were also

found in samples taken from well MW-3. With the exception of the metals Chromium and Zinc, which were found in minimal amounts in well MW-1, all other contaminant concentrations continued to be found in non-detect levels.

It is recommended that the quarterly sampling be continued for at least one year, in order to monitor the contaminant plume. If contaminant levels abate in a timely manner, remedial measures may not be warranted. The next quarterly sampling will be conducted in August, 1996.

## **7.0 REPORT LIMITATIONS AND SIGNATURES**


This report presents a summary of work completed by All Environmental, Inc., including observations and descriptions of site conditions. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide required information, but it cannot be assumed that they are entirely representative of all areas not sampled. All conclusions and recommendations are based on these analyses, observations, and governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

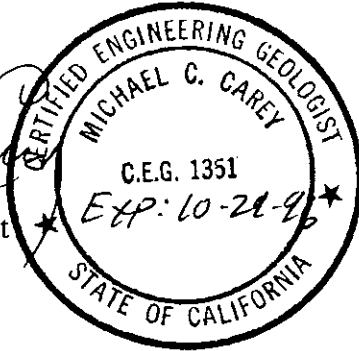
These services have been performed in accordance with the generally accepted practices in the environmental engineering and construction field which existed at the time and location of the work.

All Environmental, Inc.



Bryan Campbell  
Project Manager

  
Michael C. Carey  
Engineering Geologist  
CEG 1315



**APPENDIX A**

**GROUNDWATER MONITORING WELL FIELD  
SAMPLING FORMS**

ALL ENVIRONMENTAL INC. -- GROUNDWATER MONITORING WELL FIELD SAMPLING FORM	
<b>Monitoring Well Number: MW-1</b>	
Project Name	Schoonbrood
Job Number	1243
Project Address	554 27th Street
	Oakland, CA
Date of Sampling	3/5/96
Name of Sampler	Dusty Roy
<b>MONITORING WELL DATA</b>	
Well Casing Diameter (2"/4"/6")	2"
Seal at Grade -- Type and Condition	Cement seal, good condition
Well Cap & Lock -- OK/Replace	Locking expanding, good condition
Elevation of Top of Casing	23.48
Depth of Well	20.00
Depth to Water	4.73
Water Elevation	18.75
Three Well Volumes (gallons)*	
2" casing: (TD - DTW)(0.16)(3)	
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	10
Appearance of Purge Water	Slightly Turbid
<b>GROUNDWATER SAMPLES</b>	
Number of Samples/Container Size	3 liter; 2 40-ml VOA's
Groundwater Temp/pH/Conductivity #1:	62.0/7.21/439
Groundwater Temp/pH/Conductivity #2:	62.4/7.22/453
Groundwater Temp/pH/Conductivity #3:	62.7/7.21/455
Appearance of Groundwater Samples	Slightly Turbid
COMMENTS (i.e., sample odor, well recharge time & percent, etc.)	
No odor; fast recharge.	

TD - Total Depth of Well  
DTW - Depth To Water



ALL ENVIRONMENTAL INC. -- GROUNDWATER MONITORING WELL FIELD SAMPLING FORM	
<b>Monitoring Well Number: MW-2</b>	
Project Name	Schoonbrood
Job Number	1243
Project Address	554 27th Street
	Oakland, CA
Date of Sampling	3/5/96
Name of Sampler	Dusty Roy
<b>MONITORING WELL DATA</b>	
Well Casing Diameter (2"/4"/6")	2"
Seal at Grade -- Type and Condition	Cement seal, good condition
Well Cap & Lock -- OK/Replace	Locking expanding, good condition
Elevation of Top of Casing	23.91
Depth of Well	20.00
Depth to Water	5.31
Water Elevation	18.60
Three Well Volumes (gallons)*	
2" casing: (TD - DTW)(0.16)(3)	
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	10
Appearance of Purge Water	Slightly Turbid
<b>GROUNDWATER SAMPLES</b>	
Number of Samples/Container Size	1 liter; 2 40-ml VOA's
Groundwater Temp/pH/Conductivity #1:	67.0/7.41/250
Groundwater Temp/pH/Conductivity #2:	64.7/7.21/244
Groundwater Temp/pH/Conductivity #3:	63.6/7.12/243
Appearance of Groundwater Samples	Slightly Turbid
COMMENTS (i.e., sample odor, well recharge time & percent, etc.)	
No odor; fast recharge.	

TD - Total Depth of Well  
DTW - Depth To Water

ALL ENVIRONMENTAL INC. -- GROUNDWATER MONITORING WELL FIELD SAMPLING FORM	
<b>Monitoring Well Number: MW-3</b>	
Project Name	Schoonbrood
Job Number	1243
Project Address	554 27th Street
	Oakland, CA
Date of Sampling	3/5/96
Name of Sampler	Dusty Roy
<b>MONITORING WELL DATA</b>	
Well Casing Diameter (2"/4"/6")	2"
Seal at Grade -- Type and Condition	Cement seal, good condition
Well Cap & Lock -- OK/Replace	Locking expanding, good condition
Elevation of Top of Casing	23.33
Depth of Well	20.00
Depth to Water	5.85
Water Elevation	17.48
Three Well Volumes (gallons)*	
2" casing: (TD - DTW)(0.16)(3)	
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	10
Appearance of Purge Water	Slightly Turbid
<b>GROUNDWATER SAMPLES</b>	
Number of Samples/Container Size	1 liter; 2 40-ml VOA's
Groundwater Temp/pH/Conductivity #1:	61.6/6.52/383
Groundwater Temp/pH/Conductivity #2:	62.1/6.63/346
Groundwater Temp/pH/Conductivity #3:	62.3/6.69/342
Appearance of Groundwater Samples	Slightly Turbid
COMMENTS (i.e., sample odor, well recharge time & percent, etc.)	
No odor; fast recharge.	

TD - Total Depth of Well  
DTW - Depth To Water

**APPENDIX B**

**CURRENT LABORATORY ANALYSES WITH CHAIN OF  
CUSTODY DOCUMENTATION**

All Environmental, Inc. 2641 Crow Canyon Rd., # 5 San Ramon, CA94583	Client Project ID: # 1243; Schoonbrood	Date Sampled: 03/05/96
		Date Received: 03/05/96
	Client Contact: Jennifer Anderson	Date Extracted: 03/06-03/07/96
	Client P.O:	Date Analyzed: 03/06-03/07/96

**Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\*, with BTEX\***

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) <sup>+</sup>	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
62134	MW-1	W	ND	ND	ND	ND	ND	99
62135	MW-2	W	ND	ND	ND	ND	ND	101
62136	MW-3	W	2300,a	30	ND	140	22	100
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W	50 ug/L	0.5	0.5	0.5	0.5	0.5	
	S	1.0 mg/kg	0.005	0.005	0.005	0.005	0.005	

\* water and vapor samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

# cluttered chromatogram; sample peak coelutes with surrogate peak

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553  
 Tele: 510-798-1620 Fax: 510-798-1622

All Environmental, Inc. 2641 Crow Canyon Rd., # 5 San Ramon, CA 94583	Client Project ID: # 1243; Schoonbrood	Date Sampled: 03/05/96
		Date Received: 03/05/96
	Client Contact: Jennifer Anderson	Date Extracted: 03/06/96
	Client P.O:	Date Analyzed: 03/06-03/07/96

**Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel \***

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d) <sup>+</sup>	% Recovery Surrogate
62134	MW-1	W	ND	107
62135	MW-2	W	ND	106
62136	MW-3	W	1100,d	106
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W	50 ug/L		
	S	1.0 mg/kg		

\* water samples are reported in ug/L, soil samples in mg/kg, and all TCLP and STLC extracts in mg/L

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.



All Environmental, Inc. 2641 Crow Canyon Rd., # 5 San Ramon, CA 94583	Client Project ID: # 1243; Schoonbrood	Date Sampled: 03/05/96
		Date Received: 03/05/96
	Client Contact: Jennifer Anderson	Date Extracted: 03/06/96
	Client P.O:	Date Analyzed: 03/07-03/08/96

**LUFT Metals\***

EPA analytical methods 6010/200.7, 239.2†

Lab ID	Client ID	Matrix	Extraction <sup>o</sup>	Cadmium	Chromium	Lead	Nickel	Zinc	% Rec. Surrogate
62134	MW-1	W	TTLC	ND	0.014	ND	ND	0.038	104
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	S	TTLC	0.5 mg/kg	0.5	3.0	2.0	1.0		
	W	TTLC	0.01 mg/L	0.005	0.005	0.02	0.01		
	---	STLC,TCLP	0.01 mg/L	0.05	0.2	0.05	0.05		

\* soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L  
 † Lead is analysed using EPA method 6010 (ICP) for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples  
<sup>o</sup> EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22  
 # surrogate diluted out of range; N/A means surrogate not applicable to this analysis  
 i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

## QC REPORT FOR HYDROCARBON ANALYSES

Date: 03/06/96-03/07/96

Matrix: Water

Analyte	Concentration (ug/L) Sample			Amount Spiked	% Recovery		RPD
	(#62135)	MS	MSD		MS	MSD	
TPH (gas)	0.0	100.1	99.3	100.0	100.1	99.3	0.8
Benzene	0.0	9.8	9.9	10.0	98.0	99.0	1.0
Toluene	0.0	10.2	10.3	10.0	102.0	103.0	1.0
Ethyl Benzene	0.0	10.4	10.5	10.0	104.0	105.0	1.0
Xylenes	0.0	32.0	32.0	30.0	106.7	106.7	0.0
TPH (diesel)	0	156	162	150	104	108	3.4
TRPH (oil & grease)	0	21900	22300	23700	92	94	1.8

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$



## QC REPORT FOR AA METALS

Date: 03/08/96

Matrix: Water

Analyte	Concentration (mg/L)			Amount	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
Total Lead	0.00	5.44	5.53	5.00	109	111	1.5
Total Cadmium	0.00	5.54	5.60	5.00	111	112	1.0
Total Chromium	0.00	5.12	5.12	5.00	102	102	0.1
Total Nickel	0.00	5.10	5.07	5.00	102	101	0.7
Total Zinc	0.00	5.31	5.29	5.00	106	106	0.2
Total Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Organic Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$



**APPENDIX C**

**PREVIOUS LABORATORY ANALYSES WITH CHAIN OF  
CUSTODY DOCUMENTATION**



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

October 23, 1995

PEL # 9510058

ALL ENVIRONMENTAL, INC.

Attn: Mike Killoran

Re: Three water samples for Gasoline/BTEX, Diesel, and Oil & Grease analyses.

Project name: Schoon brood

Project number: 1293

Date sampled: Oct 18, 1995


Date submitted: Oct 19, 1995

Date extracted: Oct 19-23, 1995

Date analyzed: Oct 19-23, 1995

## RESULTS:

SAMPLE I.D.	Gasoline (ug/L)	Diesel (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylene (ug/L)	Oil & Grease (mg/L)
MW-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	---
MW-3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	---
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	85.6%	90.7%	99.8%	86.4%	109.7%	94.5%	---
Detection limit	50	50	0.5	0.5	0.5	0.5	0.5
Method of Analysis	5030 / 8015	3510 / 8015	602	602	602	602	5520 C & F

  
 David Duong  
 Laboratory Director

RECEIVED OCT 24 1995



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

October 23, 1995

PEL # 9510058

ALL ENVIRONMENTAL, INC.

Attn: Mike Killoran

Re: One water sample for Cadmium, Chromium, Lead, Nickel, and Zinc analyses.

Project name: Schoonbrood

Project number: 1293

Date sampled: Oct 18, 1995

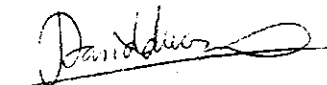
Date submitted: Oct 19, 1995

Date extracted: Oct 19-23, 1995

Date analyzed: Oct 19-23, 1995

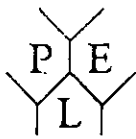
## RESULTS:

SAMPLE I.D.	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Nickel (mg/L)	Zinc (mg/L)
MW-1	N.D.	N.D.	N.D.	N.D.	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.
Detection limit	0.05	0.05	0.05	0.5	0.5
Method of Analysis	7130	7190	7420	7520	7950

  
David Duong  
Laboratory Director

RECEIVED OCT 24 1995





# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

July 13, 1995

PEL # 9507012

ALL ENVIRONMENTAL, INC.

Attn: Mike Killoran

Re: Three water samples for Gasoline/BTEX, Diesel, and Oil & Grease analyses.

Project name: Schoonbrood

Project number: 1243

Date sampled: Jul 10, 1995


Date submitted: Jul 11, 1995

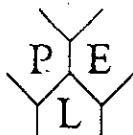
Date extracted: Jul 11-12, 1995

Date analyzed: Jul 11-12, 1995

## RESULTS:

SAMPLE I.D.	Gasoline (ug/L)	Diesel (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylene (ug/L)	Oil & Grease (mg/L)
MW-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	---
MW-3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	---
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	94.6%	87.8%	81.2%	85.8%	80.1%	98.3%	---
Detection limit	50	50	0.5	0.5	0.5	0.5	10
Method of Analysis	5030 / 8015	3510 / 8015	602	602	602	602	5520 C & F

  
David Duong  
Laboratory Director



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

July 13, 1995

PEL # 9507012

ALL ENVIRONMENTAL, INC.

Attn: Mike Killoran

Re: One water sample for Cadmium, Chromium, Lead, Nickel, and Zinc analyses.

Project name: Schoonbrood

Project number: 1243

Date sampled: Jul 10, 1995

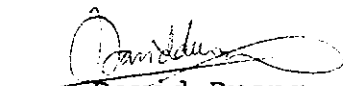
Date submitted: Jul 11, 1995

Date extracted: Jul 11-13, 1995

Date analyzed: Jul 11-13, 1995

## RESULTS:

SAMPLE I.D.	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Nickel (mg/L)	Zinc (mg/L)
MW-1	N.D.	N.D.	N.D.	N.D.	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.
Detection limit	0.10	0.10	0.05	0.10	0.10
Method of Analysis	7130	7190	7420	7520	7950

  
David Duong  
Laboratory Director





**ALL ENVIRONMENTAL, INC.**

2641 Crow Canyon Road, Suite 5

San Ramon, CA 94583

(510) 820-3224

FAX: (510) 838-2687

**FAX TRANSMITTAL SHEET**

TO: Jennifer Eberly

FAX NUMBER: 337-9335

FROM: Jennifer Anderson

MESSAGE: \_\_\_\_\_

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DATE: \_\_\_\_\_ No. of Pages (Including cover page): \_\_\_\_\_





<b>McCAMPBELL ANALYTICAL INC.</b>	110 2nd Avenue South, #D7, Pacheco, CA 94553 Tel: 510-798-1620 Fax: 510-798-1622
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All Environmental, Inc. 2641 Crow Canyon Rd., # 5 San Ramon, CA 94583	Client Project ID: # 1243; Schoonbrood	Date Sampled: 03/05/96
		Date Received: 03/05/96
	Client Contact: Jennifer Anderson	Date Extracted: 03/06/96
	Client P.O.:	Date Analyzed: 03/06-03/07/96

**Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel \***  
EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d) <sup>+</sup>	% Recovery Surrogate
62134	MW-1	W	ND	107
62135	MW-2	W	ND	106
62136	MW-3	W	1100,d	106
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	
		S	1.0 mg/kg	

\* water samples are reported in ng/L, soil samples in mg/kg, and all TCLP and STLC extracts in mg/L

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.





<b>McCAMPBELL ANALYTICAL INC.</b>	110 2nd Avenue South, #D7, Pacheco, CA 94553 Tel: 510-798-1620 Fax: 510-798-1622
-----------------------------------	-------------------------------------------------------------------------------------

### INVOICE FOR ANALYTICAL SERVICES

**Attention: Accounts Payable**

All Environmental, Inc. 2641 Crow Canyon Rd., # 5 San Ramon, CA 94583	Client Project ID: # 1243; Schoonbrood	Date Sampled: 03/05/96
		Date Received: 03/05/96
	Client Contact: Jennifer Anderson	Date Extracted: 03/05/96
	Client P.O.:	Date Analyzed: 03/05/96

Billing Date: 03/15/96

INVOICE # 5961

Number of Samples	Analysis	TAT	Unit Price	Sub-Totals
3	TPH(g)-BTEX	5d	\$50	\$150
3	TPH (d)	5d	\$50	\$150
1	Oil & Grease (418.1 or 5520)	5d	\$45	\$45
0	EPA 601/8010/EDB	5d	\$70	\$0
0	RCI	5d	\$70	\$0
0	CAM 17 Metals	5d	\$150	\$0
0	13 Priority Pollutant Metals	5d	\$120	\$0
0	10 Forward Metals	5d	\$100	\$0
1	5 LUFT Metals	5d	\$60	\$60
0	Individual Metal (AA Flame, Furnace, ICP)	5d	\$25	\$0
0	Organic Lead	5d	\$60	\$0
0	SILC Extraction	5d	\$50	\$0
0	ZHE TCLP Extraction	5d	\$100	\$0
0	Semi-Volatile TCLP Extraction	5d	\$50	\$0
0		subbed	\$0	\$0
<b>INVOICE TOTAL: \$405</b>				

Please include the invoice number(s) with your check and remit to:

McC Campbell Analytical Inc.  
110 2nd Avenue South, # D7  
Pacheco, CA 94553

Terms are net 30 days from the billing date. After this period 1.5% interest per month will be charged. Overdue accounts are responsible for all legal and collection fees. If you have any questions about billing please contact Ed Hamilton at McC Campbell Analytical.

5961 ALEX 21

**MCCAMPBELL ANALYTICAL**  
 110 2nd AVENUE, # D7  
 PACIFIC, CA 94553 FAX (510) 708-1622  
 (510) 708-1620

**CHAIN OF CUSTODY RECORD**  
 TURN AROUND TIME:  RUSH  24 HOUR  48 HOUR  5 DAY

REPORT TO: JENNIFER BILL TO:  
 COMPANY: ALL ENVIRONMENTAL INC  
 SAN RAMON CA 94583  
 Crow Canyon Rd Ste 5  
 TELE: 820-3224 FAX: 510-838-2697  
 PROJECT NUMBER: 1243 PROJECT NAME: Schoonbrood  
 PROJECT LOCATION: OAKLAND SAMPLER SIGNATURE: *Deaty Roy*

ANALYSIS REQUEST		OTHER
STX & THH as Gasoline (662/662 & 9025)		
THH as Diesel (9025)		
Total Petroleum Oil & Grease (659/659) (4182)		
Total Petroleum Hydrocarbons (4182)		
EPA 641/8010		
EPA 642/8020		
EPA 643/8030		
EPA 608/8080 - PCBs Only		
EPA 621/8210/8250		
EPA 625/8270		
CAN - 17 Metals		
EPA - Priority Pollutant Metals		
LSAB (7240/7241/2292/6000)		
ORGANIC LEAD		
REI		

COMMENTS

SAMPLE ID	LOCATION	SAMPLING		# CONTAINERS	TYPE CONTAINERS	MATRIX					METHOD PRESERVED			
		DATE	TIME			WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	OTHER	
MW-1		3/5/96		5		X						X	X	X
MW-2				3		X						X	X	
MW-3				3		X						X	X	

62134  
 62135  
 62136

✓  
 GOOD CONDITION  
 HEAD SPACE ABSENT  
 PRESERVATIVE  
 APPROPRIATE  
 CONTAINERS

RELINQUISHED BY: *Deaty Roy* DATE: 3/5/96 TIME: 6:52 PM RECEIVED BY: *Anayela Rodriguez*  
 RELINQUISHED BY: DATE: TIME: RECEIVED BY:  
 RELINQUISHED BY: DATE: TIME: RECEIVED BY LABORATORY:

REMARKS:

TOTAL P.07

MAR-19-1996 12:15

2

1.01



3923

**SECOND QUARTERLY  
GROUNDWATER MONITORING  
AND SAMPLING REPORT**

11-10-95

**554 27th Street  
Oakland, CA**

**Prepared For**

**Ms. Joan Schoonbrood  
PO Box 7442  
Menlo Park, CA 94025**

**Prepared By**

**All Environmental, Inc.  
2641 Crow Canyon Road, Suite 5  
San Ramon, CA 94583**



**November 10, 1995**

# ALL ENVIRONMENTAL, INC.

Environmental Engineering & Construction

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RECEIVED  
NOV 16 11:50

November 10, 1995  
Job No. 1243

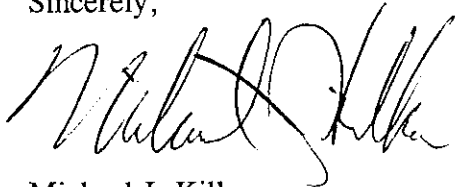
Ms. Jennifer Eberle  
Alameda County Health Care Services Agency  
1131 Harbor Way Parkway, 2nd Floor  
Alameda, CA 94502-6577

**Subject: Second Quarterly Groundwater Monitoring and Sampling at 554 27th Street, Oakland, California**

Dear Ms. Eberle:

We are enclosing one copy of the referenced report for your review, which presents results of the second episode of quarterly monitoring and sampling at 554 27th Street, Oakland. If you have any questions or comments regarding the findings presented in this report, please call me at (510) 820-3224.

Sincerely,



Michael J. Killoran  
Geologist

cc: Joan Schoonbrood  
Angela Barbagelata

---

Corporate Headquarters:

2641 Crow Canyon Rd., #5  
San Ramon, CA 94583  
(510) 820-3224

Los Angeles Office:

5031 Pacific Coast Hwy., #178  
Torrance, CA 90505  
(310) 328-8878

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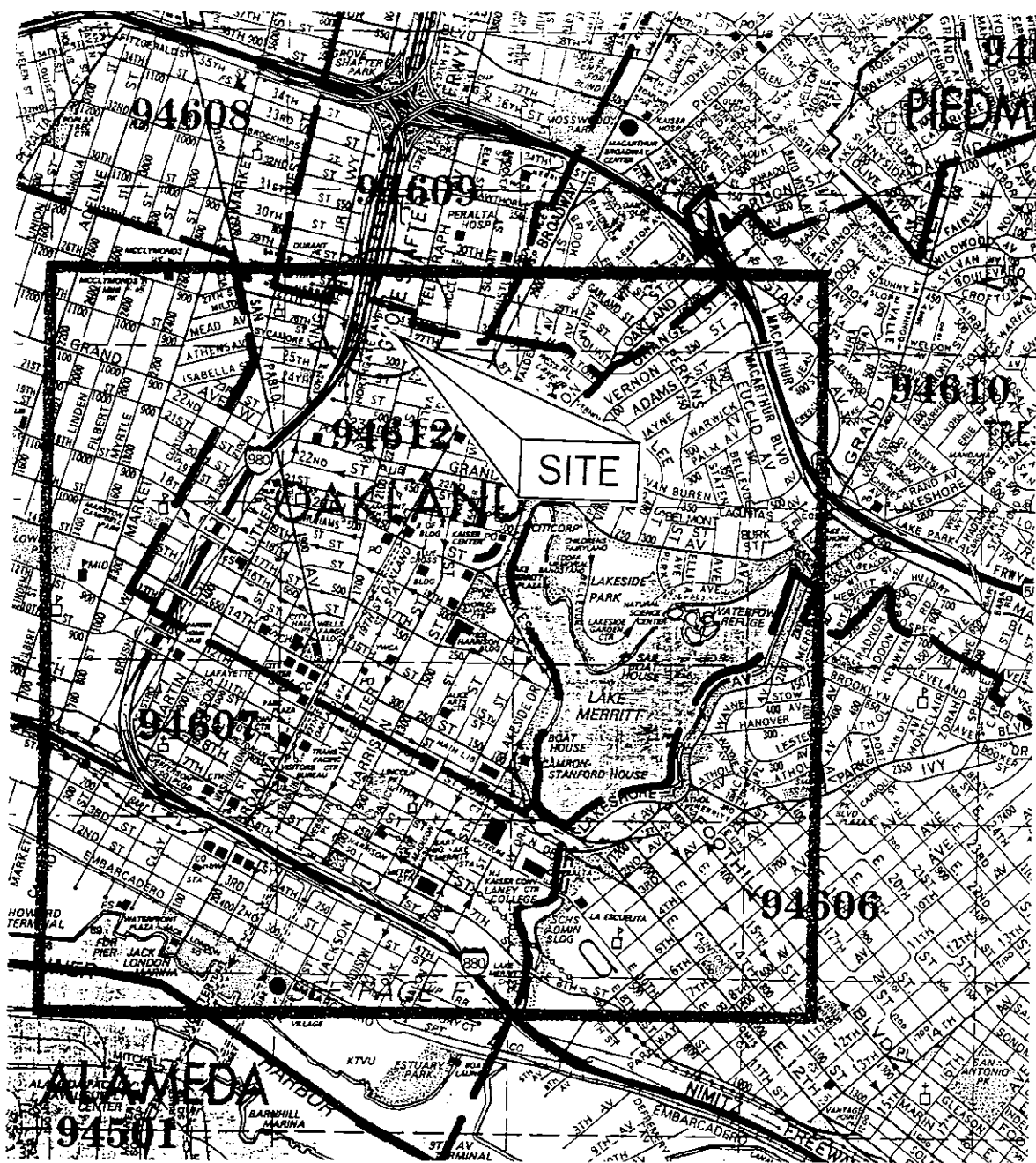
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## 1.0 INTRODUCTION

All Environmental, Inc. (AEI) has prepared this report on behalf of Joan Schoonbrood, in response to her request for quarterly groundwater monitoring at 554 27th Street, Oakland, California (Figure 1: Site Location Map). The investigation, involving the installation of three groundwater monitoring wells and obtaining representative water samples for analyses, was initiated by the property owner in accordance with the requirements of the Alameda County Health Care Services Agency (ACHCSA), Department of Environmental Health. The investigation was conducted to assess contaminant levels in soil and groundwater following the removal of four underground fuel tanks in January, 1995.

AEI drilled three soil borings and converted each boring into a groundwater monitoring well on June 22, 1995. This subsurface investigation included logging boreholes under the supervision of a Registered Professional Engineer, soil sampling and analyses, well development, and groundwater sampling and analyses. Prior to drilling, a work plan compiled by AEI was approved by Jennifer Eberle, Hazardous Materials Specialist for ACHCSA. A Drilling Permit was obtained from Zone 7 Water Agency, and the property owners were notified verbally.

AEI performed the first quarterly groundwater monitoring and sampling on July 10, 1995. This report summarizes the second episode of quarterly monitoring and sampling. The work involved measuring groundwater levels in order to establish groundwater flow direction and gradient at the site, and obtaining and analyzing well water samples in order to establish contaminant levels.



© Thomas Bros. 1993

Scale: 1" = 2200'

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

DRAWN BY: MK

DATE: May, 1995

REVISED BY:

APPROVED BY:

### SITE LOCATION MAP

554 27th Street, Oakland

FIGURE 1

## **2.0 SITE DESCRIPTION AND BACKGROUND**

The site is located in a commercial zone at 554 27th Street, Oakland, California, and presently has no tenant. Refer to Figure 1, Site Location Map. The topography of the site is relatively flat, and slopes gently toward San Francisco Bay, located approximately 1.7 miles to the west.

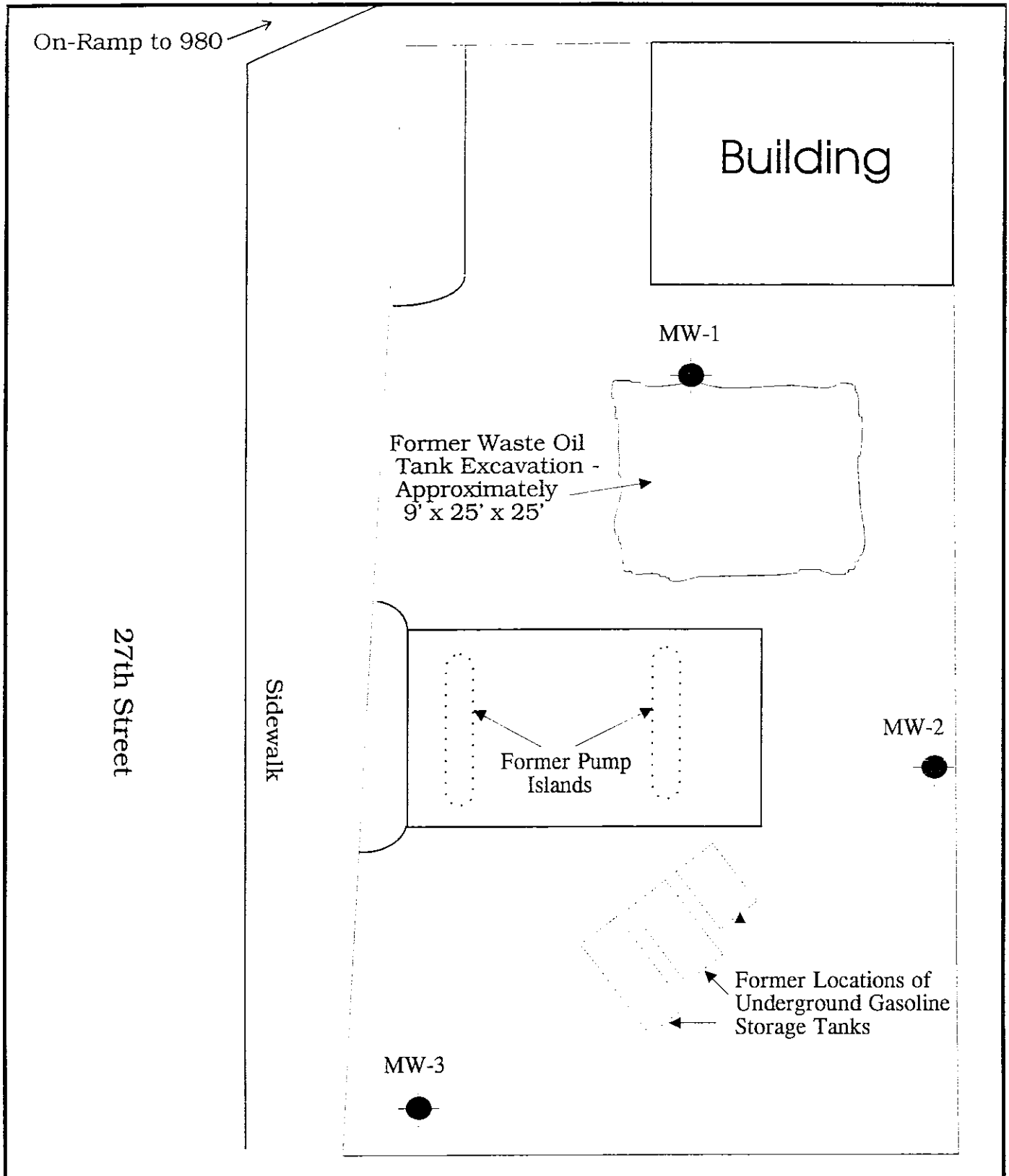
Four underground storage tanks were removed from the property by AEI in January, 1995. The underground storage tanks were of the following types: one 6000-gallon gasoline, one 8,000-gallon gasoline, one 10,000-gallon gasoline, and one 500-gallon waste oil.

The levels of contamination in soil samples collected from below the gasoline tank excavation and from beneath the dispenser islands were found to be fairly low. However, levels of contamination in soil samples from the waste oil tank excavation and stockpile were found to be moderate to high, with as much as 36,000 ppm Oil & Grease, and 29 ppb of benzene.

## **3.0 GEOLOGY AND HYDROGEOLOGY**

According to the soil boring logs recorded on-site by one of AEI's geologists, the near-surface geology of the site consists of silty or sandy clay from the surface to about 10 feet below ground surface. From about 9 feet to 20 feet below ground surface, a gravel-sand-clay mixture was encountered.

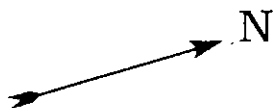
Groundwater was first encountered in sand-bearing soil during drilling at a depth of about 10 feet below ground surface. Water level measurements made during this second quarterly groundwater monitoring and sampling episode of October 18, 1995 indicated that the static water was at about 9 feet below ground surface. The groundwater flow based on these



MW-1



Monitoring Well Location



Scale: 1" = 20'

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

DRAWN BY: MK

DATE: May, 1995

REVISED BY:

APPROVED BY:

**SITE PLAN**

554 27th Street, Oakland

FIGURE 2



measurements is to the southwest, and the gradient is approximately 0.03 feet per foot. The water level elevations to date used in arriving at the groundwater gradient and flow direction are shown in Figure 3, Groundwater Gradient, and are summarized in the table below:

**Table 1 - Water Level Measurements - July 10, 1995**

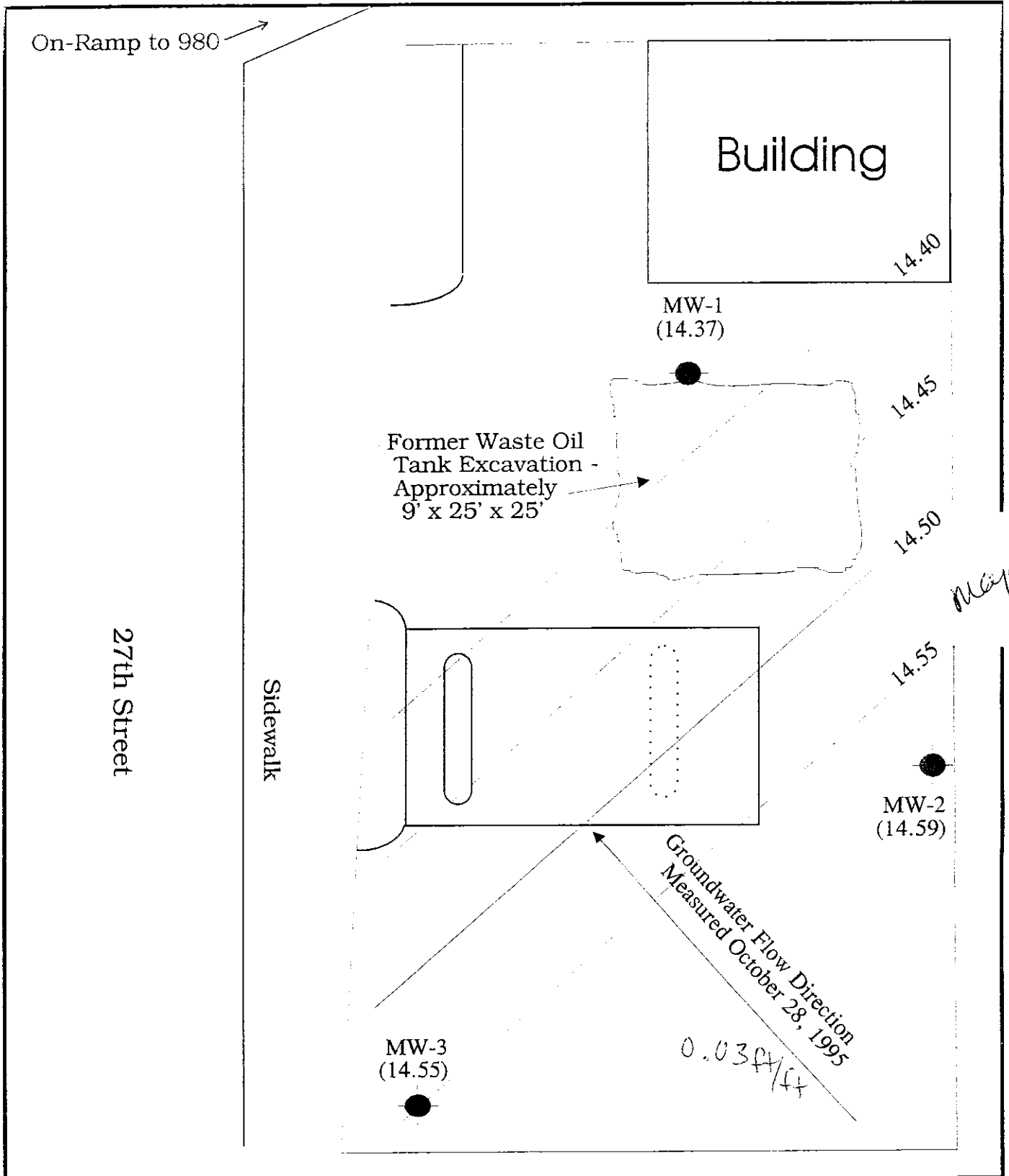
<b>Well</b>	<b>Depth to Water (feet)</b>	<b>Top of Casing Elevation (feet)</b>	<b>Groundwater Elevation (feet)</b>
MW-1	8.27	23.48	15.21
MW-2	8.62	23.91	15.29
MW-3	8.35	23.33	14.98

**Table 2 - Water Level Measurements - October 18, 1995**

<b>Well</b>	<b>Depth to Water (feet)</b>	<b>Top of Casing Elevation (feet)</b>	<b>Groundwater Elevation (feet)</b>
MW-1	9.11	23.48	14.37
MW-2	9.32	23.91	14.59
MW-3	8.78	23.33	14.55

#### **4.0 WELL SAMPLING**

On October 18, water was bailed from each of the three wells and stored in 55-gallon drums. Measurements of pH, temperature, and conductivity were made during bailing of wells. The water level was measured before and after bailing, and returned to a static level shortly after bailing was completed. The Groundwater Well Field Sampling Forms are included in Appendix C.



MW-1 (14.37)



Monitoring Well Location and Casing Top Elevation



Scale: 1" = 20'

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

DRAWN BY: MK

REVISED BY:

DATE: May, 1995

APPROVED BY:

**GROUNDWATER GRADIENT**

554 27th Street, Oakland

FIGURE 3

Groundwater was checked for sheen and free product prior to purging and sampling. No sheen or free product was observed. The samples were taken using a clean disposable bailer. Water was poured from the bailer into amber liter bottles and 40 ml VOA vials and capped so that no head space or visible air bubbles was within the sample containers. The samples were labeled and placed on ice in an ice chest for transportation to Priority Environmental Labs under chain of custody protocol for analysis.

## **5.0 ANALYTICAL RESULTS OF SAMPLES**

A total of three water samples were analyzed for TPHg, TPHd, and BTEX. Additionally, the water sample from MW-1 was analyzed for TOG and the metals cadmium, chromium, lead nickel, and zinc. Laboratory results and chain of custody documents are included in Appendix B. Previous laboratory results and chain of custody documents are included in Appendix C. All water analyses indicated only nondetectable concentrations of TPHg, TPHd, BTEX, TOG, cadmium, chromium, lead, nickel, and zinc.

Analytical results of water sample analyses are presented in the tables below:

**Table 3 - Water Analyses, July 10, 1995**

Sample Number	TPHg mg/Kg	TPHd mg/Kg	Ben- zene ug/Kg	Toluene ug/Kg	Ethyl- benzene ug/Kg	Xylenes ug/Kg	TOG mg/Kg
MW-1	ND	ND	ND	ND	ND	ND	ND
MW-2	ND	ND	ND	ND	ND	ND	---
MW-3	ND	ND	ND	ND	ND	ND	---

**Table 4 - Water Analyses, July 10, 1995**

Sample Number	Cad- mium mg/Kg	Chro- mium mg/Kg	Lead mg/Kg	Nickel mg/Kg	Zinc mg/Kg
MW-1	ND	ND	ND	ND	ND
MW-2	---	---	---	---	---
MW-3	---	---	---	---	---

*data*

mg/Kg = ppm

ug/Kg = ppb

ND = Not Detected

--- = Not analyzed

**Table 5 - Water Analyses, October 18, 1995**

<b>Sample Number</b>	<b>TPHg mg/Kg</b>	<b>TPHd mg/Kg</b>	<b>Ben- zene ug/Kg</b>	<b>Toluene ug/Kg</b>	<b>Ethyl- benzene ug/Kg</b>	<b>Xylenes ug/Kg</b>	<b>TOG mg/Kg</b>
MW-1	ND	ND	ND	ND	ND	ND	ND
MW-2	ND	ND	ND	ND	ND	ND	---
MW-3	ND	ND	ND	ND	ND	ND	---

**Table 6 - Water Analyses, October 18, 1995**

<b>Sample Number</b>	<b>Cad- mium mg/Kg</b>	<b>Chro- mium mg/Kg</b>	<b>Lead mg/Kg</b>	<b>Nickel mg/Kg</b>	<b>Zinc mg/Kg</b>
MW-1	ND	ND	ND	ND	ND
MW-2	---	---	---	---	---
MW-3	---	---	---	---	---

mg/Kg = ppm

ND = Not Detected

--- = Not analyzed

## **6.0 CONCLUSIONS AND RECOMMENDATIONS**

AEI conducted a soil and groundwater investigation on June 22, 1995, beginning with the advancement of three soil borings in order to determine the presence of contamination in soil and groundwater below the site. All three borings were converted to groundwater monitoring wells. Water samples obtained for this second quarterly groundwater monitoring event indicated that concentrations of TPHg, TPHd, BTEX, TOG, cadmium, chromium, and lead were below detectable levels, as was the case in the previous monitoring event. Quarterly well monitoring should be continued for a period of at least one year. The next quarterly sampling will be conducted in January, 1996.

## **7.0 REPORT LIMITATIONS**

This report presents a summary of work completed by All Environmental, Inc., including observations and descriptions of site conditions. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide required information, but it cannot be assumed that they are entirely representative of all areas not sampled. All conclusions and recommendations are based on these analyses, observations, and governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

AEI warrants that all services were performed in accordance with the generally accepted practices in the environmental engineering and construction field which existed at the time and location of the work.

# **APPENDIX A**

## **GROUNDWATER MONITORING WELL FIELD SAMPLING FORMS**

<b>ALL ENVIRONMENTAL INC. -- GROUNDWATER MONITORING WELL FIELD SAMPLING FORM</b>	
<b>Monitoring Well Number: MW-1</b>	
Project Name	Schoonbrood
Job Number	1243
Project Address	554 27th Street
	Oakland, CA
Date of Sampling	10/18/95
Name of Sampler	Dusty Roy
<b>MONITORING WELL DATA</b>	
Well Casing Diameter (2"/4"/6")	2"
Seal at Grade -- Type and Condition	Cement seal, good condition
Well Cap & Lock -- OK/Replace	Locking expanding, good condition
Elevation of Top of Casing	23.48
Depth of Well	20.00
Depth to Water	9.11
Water Elevation	14.37
Three Well Volumes (gallons)*	
2" casing: (TD - DTW)(0.16)(3)	5.2
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	10
Appearance of Purge Water	Clear
<b>GROUNDWATER SAMPLES</b>	
Number of Samples/Container Size	3 liter; 2 40-ml VOA's
Groundwater Temp/pH/Conductivity #1:	86.8/6.03/3800
Groundwater Temp/pH/Conductivity #2:	
Groundwater Temp/pH/Conductivity #3:	
Appearance of Groundwater Samples	Clear
COMMENTS (i.e., sample odor, well recharge time & percent, etc.)	
No odor; fast recharge.	

TD - Total Depth of Well  
DTW - Depth To Water



<b>ALL ENVIRONMENTAL INC. -- GROUNDWATER MONITORING WELL FIELD SAMPLING FORM</b>	
<b>Monitoring Well Number: MW-2</b>	
Project Name	Schoonbrood
Job Number	1243
Project Address	554 27th Street
	Oakland, CA
Date of Sampling	10/18/95
Name of Sampler	Dusty Roy
<b>MONITORING WELL DATA</b>	
Well Casing Diameter (2"/4"/6")	2"
Seal at Grade -- Type and Condition	Cement seal, good condition
Well Cap & Lock -- OK/Replace	Locking expanding, good condition
Elevation of Top of Casing	23.91
Depth of Well	20.00
Depth to Water	9.32
Water Elevation	14.59
Three Well Volumes (gallons)*	
2" casing: (TD - DTW)(0.16)(3)	5.1
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	10
Appearance of Purge Water	Clear
<b>GROUNDWATER SAMPLES</b>	
Number of Samples/Container Size	1 liter; 2 40-ml VOA's
Groundwater Temp/pH/Conductivity #1:	83.4/6.11/2300
Groundwater Temp/pH/Conductivity #2:	
Groundwater Temp/pH/Conductivity #3:	
Appearance of Groundwater Samples	Clear
COMMENTS (i.e., sample odor, well recharge time & percent, etc.)	
No odor; fast recharge.	

TD - Total Depth of Well

DTW - Depth To Water

ALL ENVIRONMENTAL INC. -- GROUNDWATER MONITORING WELL FIELD SAMPLING FORM	
<b>Monitoring Well Number: MW-3</b>	
Project Name	Schoonbrood
Job Number	1243
Project Address	554 27th Street
	Oakland, CA
Date of Sampling	10/18/95
Name of Sampler	Dusty Roy
<b>MONITORING WELL DATA</b>	
Well Casing Diameter (2"/4"/6")	2"
Seal at Grade -- Type and Condition	Cement seal, good condition
Well Cap & Lock -- OK/Replace	Locking expanding, good condition
Elevation of Top of Casing	23.33
Depth of Well	20.00
Depth to Water	8.78
Water Elevation	14.55
Three Well Volumes (gallons)*	
2" casing: (TD - DTW)(0.16)(3)	5.4
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	10
Appearance of Purge Water	Clear
<b>GROUNDWATER SAMPLES</b>	
Number of Samples/Container Size	1 liter; 2 40-ml VOA's
Groundwater Temp/pH/Conductivity #1:	85.8/6.02/3900
Groundwater Temp/pH/Conductivity #2:	
Groundwater Temp/pH/Conductivity #3:	
Appearance of Groundwater Samples	Clear
COMMENTS (i.e., sample odor, well recharge time & percent, etc.)	
No odor; fast recharge.	

TD - Total Depth of Well  
DTW - Depth To Water

## **APPENDIX B**

### **CURRENT LABORATORY ANALYSES WITH CHAIN OF CUSTODY DOCUMENTATION**



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

October 23, 1995

PEL # 9510058

ALL ENVIRONMENTAL, INC.

Attn: Mike Killoran

Re: Three water samples for Gasoline/BTEX, Diesel, and Oil & Grease analyses.

Project name: Schoon brood

Project number: 1293

Date sampled: Oct 18, 1995


Date submitted: Oct 19, 1995

Date extracted: Oct 19-23, 1995

Date analyzed: Oct 19-23, 1995

## RESULTS:

SAMPLE I.D.	Gasoline (ug/L)	Diesel (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylene (ug/L)	Oil & Grease (mg/L)
MW-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	---
MW-3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	---
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	85.6%	90.7%	99.8%	86.4%	109.7%	94.5%	---
Detection limit	50	50	0.5	0.5	0.5	0.5	0.5
Method of Analysis	5030 / 8015	3510 / 8015	602	602	602	602	5520 C & F

  
David Duong  
Laboratory Director



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

October 23, 1995

PEL # 9510058

ALL ENVIRONMENTAL, INC.

Attn: Mike Killoran

Re: One water sample for Cadmium, Chromium, Lead, Nickel, and Zinc analyses.

Project name: Schoonbrood

Project number: 1293

Date sampled: Oct 18, 1995

Date submitted: Oct 19, 1995

Date extracted: Oct 19-23, 1995

Date analyzed: Oct 19-23, 1995

## RESULTS:

SAMPLE I.D.	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Nickel (mg/L)	Zinc (mg/L)
MW-1	N.D.	N.D.	N.D.	N.D.	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.
Detection limit	0.05	0.05	0.05	0.5	0.5
Method of Analysis	7130	7190	7420	7520	7950

David Duong  
Laboratory Director



## **APPENDIX C**

### **PREVIOUS LABORATORY ANALYSES WITH CHAIN OF CUSTODY DOCUMENTATION**

# PRECISION ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

July 13, 1995

PEL # 9507012

ALL ENVIRONMENTAL, INC.

Attn: Mike Killoran

Re: Three water samples for Gasoline/BTEX, Diesel, and Oil & Grease analyses.

Project name: Schoonbrood

Project number: 1243

Date sampled: Jul 10, 1995

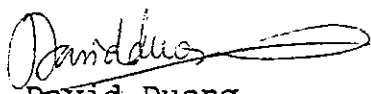
Date submitted: Jul 11, 1995

Date extracted: Jul 11-12, 1995

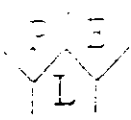
Date analyzed: Jul 11-12, 1995

## RESULTS:

SAMPLE I.D.	Gasoline (ug/L)	Diesel (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylene (ug/L)	Oil & Grease (mg/L)
MW-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	---
MW-3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	---
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	94.6%	87.8%	81.2%	85.8%	80.1%	98.3%	---
Detection limit	50	50	0.5	0.5	0.5	0.5	10
Method of Analysis	5030 / 8015	3510 / 8015	602	602	602	602	5520 C & F

  
David Duong  
Laboratory Director





# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

July 13, 1995

PEL # 9507012

ALL ENVIRONMENTAL, INC.

Attn: Mike Killoran

Re: One water sample for Cadmium, Chromium, Lead, Nickel, and Zinc analyses.

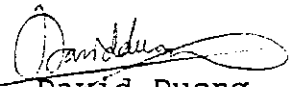
Project name: Schoonbrood  
Project number: 1243

Date sampled: Jul 10, 1995  
Date extracted: Jul 11-13, 1995

Date submitted: Jul 11, 1995  
Date analyzed: Jul 11-13, 1995

RESULTS:

SAMPLE I.D.	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Nickel (mg/L)	Zinc (mg/L)
MW-1	N.D.	N.D.	N.D.	N.D.	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.
Detection limit	0.10	0.10	0.05	0.10	0.10
Method of Analysis	7130	7190	7420	7520	7950

  
David Duong  
Laboratory Director

**AEI ENVIRONMENTAL, INC.**  
 641 Crow Canyon Road, Ste. 5  
 San Ramon, CA 94583  
 (510) 820-3224 FAX: (510) 838-2687

**PEL #** 9507012  
**INV #** 26130

**Chain of Custody**


DATE: 7/10/95 PAGE: 1 OF: 1

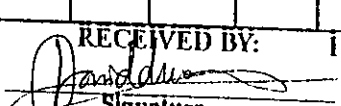
PROJECT MANAGER: Mike Killoran  
 OFFICE NAME: Schoonbrood  
 PROJECT NUMBER: 1243  
 SIGNATURE: \_\_\_\_\_  
 TOTAL # OF CONTAINERS: 11  
 GOOD COND./GOLD: Yes

**ANALYSIS REQUEST**

SAMPLE I.D.	DATE	TIME	MATRIX	TPH-Casoline (EPA 5030-8015)	TPH-Casoline (EPA 5030-8015) w/ STEK (EPA 802-8020)	TPH-Diesel (EPA 5510/5550-8015)	PURGEABLE AROMATICS STEK (EPA 802-8020)	TOTAL OIL & GREASE (EPA 5520-5-66)	TOTAL LEAD (AA) (EPA 7450)	VOLATILE ORGANIC COMPOUNDS (EPA 8240)	LUFT Metals (EPA 7150/7160/7450/7350/7920)	STEEL CARBON (EPA 1310/8010)	REACTIVITY CORROSION IGNITABILITY (Title 22, CCR 88001.21-9)	NUMBER OF CONTAINERS
				1	7/10/95		W	X	X		X			
2	7/10/95		W	X	X									3
3	7/10/95		W	X	X									3

LABORATORY: PRIORITY  
 PHONE: (925) 946-9636 FAX: \_\_\_\_\_  
 INSTRUCTIONS/COMMENTS: \_\_\_\_\_

RELINQUISHED BY:  
  
 Signature  
**Michael J. Killoran**  
 Printed Name  
**AEI**  
 Company  
 Time: 9:40am Date: 7/10/95

RECEIVED BY:  
  
 Signature  
**DAVID DUVO**  
 Printed Name  
**PEL**  
 Company  
 Time: \_\_\_\_\_ Date: 7/11/95

RELINQUISHED BY: 2  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Company \_\_\_\_\_  
 Time \_\_\_\_\_ Date \_\_\_\_\_

RECEIVED BY: 2  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Company \_\_\_\_\_  
 Time \_\_\_\_\_ Date \_\_\_\_\_

**ALL ENVIRONMENTAL, INC.**  
2641 CROW CANYON BLVD., SUITE 5  
SAN RAMON, CA 94583  
(510) 820-3224  
FAX: 838-2687

FAX TRANSMITTAL SHEET

TO: Jennifer Eberle  
FAX NUMBER: 337-9335  
FROM: Mike Killoran

MESSAGE: Here's the analytical  
for Schoonbrood

DATE: 8/25/95 NO. OF PAGES (including cover page): 4



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

July 13, 1995

PEL # 9507012

ALL ENVIRONMENTAL, INC.

Attn: Mike Killoran

Re: Three water samples for Gasoline/BTEX, Diesel, and Oil & Grease analyses.


Project name: Schoonbrood  
Project number: 1243

Date sampled: Jul 10, 1995  
Date extracted: Jul 11-12, 1995

Date submitted: Jul 11, 1995  
Date analyzed: Jul 11-12, 1995

## RESULTS:

SAMPLE I.D.	Gasoline (ug/L)	Diesel (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylene (ug/L)	Oil & Grease (mg/L)
MW-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	---
MW-3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	---
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	94.6%	87.8%	81.2%	85.8%	80.1%	98.3%	---
Detection limit	50	50	0.5	0.5	0.5	0.5	10
Method of Analysis	5030 / 8015	3510 / 8015	602	602	602	602	5520 C & F

  
 David Duong  
 Laboratory Director



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

July 13, 1995

PEL # 9507012

ALL ENVIRONMENTAL, INC.

Attn: Mike Killoran

Re: One water sample for Cadmium, Chromium, Lead, Nickel, and Zinc analyses.

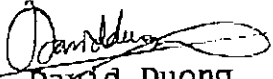
Project name: Schoonbrood  
Project number: 1243

Date sampled: Jul 10, 1995  
Date extracted: Jul 11-13, 1995

Date submitted: Jul 11, 1995  
Date analyzed: Jul 11-13, 1995

## RESULTS:

SAMPLE I.D.	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Nickel (mg/L)	Zinc (mg/L)
MW-1	N.D.	N.D.	N.D.	N.D.	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.
Detection limit	0.10	0.10	0.05	0.10	0.10
Method of Analysis	7130	7190	7420	7520	7950

  
 David Duong  
 Laboratory Director



Hazardous Material's Deposit Refund System

Edit Save Add new Delete Reset Previous Next Quit

Site #: 2729      StID#: 3923      LookUp-PAYOR #:681      Sitelst: 3805, 3602,  
 Site Name: N Schoonbrood, I Barbage      All Environmental, Inc. 3549, 3273,  
 Address: 554 - 27th St      Address: 2641 Crow Canyon Rd. #5  
 City: Oakland      Zip: 94612      City: San Ramon      CA Zip: 94526  
 Contact:      Contact: Greg Gouvea  
 Phone #:      Phone #: 820-3224  
 Code:

Unauthorized Release? (y/n)      Receipt #'s: 747029  
 Date Site Complete:      Type List:  
 Payor Links: 681-a      T,R

PROJ#	DATE:	RCPT#:	CHECK #:	\$AMOUNT	Type: R,I,M	#TANKS	DATE DEP COMPLETE	INSP
2729A	12/01/94	747029	3479	1494.00	R	4	01/18/95	CL
2729A					T		01/18/95	CL

[ESC] Done      [F2] Clear field      [Shift-F2] Clear to end      [Shift-F10] More  
 Form: dep      Table: SITES      Field: Site#      Page: 1

*Note site # = project #*

*Joan Schoonbrood*

*415-329-8284*

Printed: 11/06/95

\*\*\*\*\* Alameda County Department of Environmental Health \*\*\*\*\*  
Deposit/Refund Account History

\*\* PROJECT INFORMATION \*\*

Project#: --2729A    Date Open: 12/01/94    Date Closed: 06/09/95

Payor Information:

Site Information:

-----  
ALL ENVIRONMENTAL, INC.  
2641 CROW CANYON RD #5  
SAN RAMON CA 94526

-----  
SAN RAMON RESIDENT  
2641 CROW CANYON ROAD  
SAN RAMON CA 94583

\*\* DEPOSIT HISTORY \*\*

Deposit Date	Receipt#	Amount Received
-----	-----	-----
12/01/94	747029	1,494.00
		-----
		1,494.00

\*\* WORKLOG HISTORY \*\*

Work Date	Activity Description / Time Spent (hrs)	Amount Charged
-----	-----	-----
12/14/94	review removal plan	1.2      108.00
12/14/94	administrative cost	1.      90.00
12/14/94	consult w/AEI	0.2      18.00
12/15/94	consult re:plans	0.6      54.00
12/22/94	call w/AEI/fax	0.2      18.00
01/18/95	transfer to LOP	0.00
01/25/95	Project Ended/Refund request	0.00
		-----
		288.00
	Balance:	0.00
	Amount Refunded:	1,206.00



# UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.		
REPORT DATE M M D D Y Y		CASE #		SIGNED _____ DATE _____		
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT SCHOONBROOD G J		PHONE (415) 329 8781		SIGNATURE [Signature]	
	REPRESENTING <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER		COMPANY OR AGENCY NAME N/A			
ADDRESS 935 EVELYN ST STREET MENLO PARK CITY CA STATE 94025 ZIP						
RESPONSIBLE PARTY	NAME SCHOONBROOD & BARBACCLATA		CONTACT PERSON SCHOONBROOD		PHONE (415) 329 8781	
	ADDRESS 935 EVELYN STREET MENLO PARK CITY CA STATE 94025 ZIP					
SITE LOCATION	FACILITY NAME (IF APPLICABLE) N/A (VACANT LOT)		OPERATOR N/A		PHONE (N/A)	
	ADDRESS 554-27 ST STREET BAYLAND CITY CA COUNTY 94611 ZIP CROSS STREET HWY 880					
IMPLEMENTING AGENCIES	LOCAL AGENCY ALAMEDA COUNTY HEALTH		AGENCY NAME HEALTH		CONTACT PERSON T PEACOCK	
	REGIONAL BOARD PHONE ( )					
SUBSTANCES INVOLVED	(1) NAME WASTE OIL				QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN	
	(2) <input type="checkbox"/> UNKNOWN					
DISCOVERY/ABATEMENT	DATE DISCOVERED 11/19/95		HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input checked="" type="checkbox"/> TANK REMOVAL <input type="checkbox"/> OTHER			
	DATE DISCHARGE BEGAN UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input checked="" type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> OTHER			
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 11/19/95					
SOURCE/ CAUSE	SOURCE OF DISCHARGE <input checked="" type="checkbox"/> TANK LEAK <input type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input checked="" type="checkbox"/> CORROSION <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER			
	CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input checked="" type="checkbox"/> SOIL ONLY <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)					
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input checked="" type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY					
	CHECK APPROPRIATE ACTION(S) <input checked="" type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> OTHER (OT) SPREAD WATER MULTIPLE 1995					
COMMENTS						

COMMUNICATIONS  
95 AUG 24 PM 1:39

**SUBSURFACE INVESTIGATION  
AND  
QUARTERLY GROUNDWATER MONITORING  
AND SAMPLING REPORT**

8-15-95

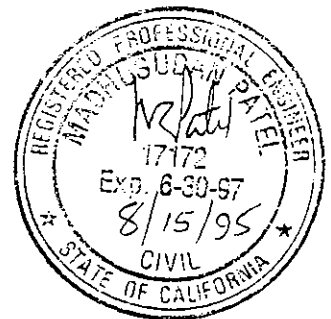
**554 27th Street  
Oakland, CA**

**Prepared For**

**Ms. Joan Schoonbrood  
PO Box 7442  
Menlo Park, CA 94025**

**Prepared By**

**All Environmental, Inc.  
2641 Crow Canyon Road, Suite 5  
San Ramon, CA 94583**



**August 15, 1995**

# ALL ENVIRONMENTAL, INC.

Environmental Engineering & Construction

5/10/95 8:41 PM

August 15, 1995  
Job No. 1243

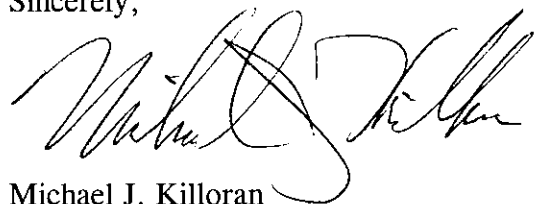
Ms. Jennifer Eberle  
Alameda County Health Care Services Agency  
1131 Harbour Way Parkway, 2nd Floor  
Alameda, CA 94502-6577

**Subject: Monitoring Well Installation and First Quarterly Groundwater Sampling at 554 27th Street, Oakland, CA.**

Dear Ms. Eberle:

We are enclosing one copy of the referenced report for your review, which presents results of the subsurface investigation and quarterly monitoring at 554 27th Street, Okaland. If you have any questions or comments regarding the findings presented in this report, please call me at (510) 820-3224.

Sincerely,



Michael J. Killoran  
Geologist

cc: Joan Schoonbrood  
Angela Barbagelata

## **LIST OF APPENDICES**

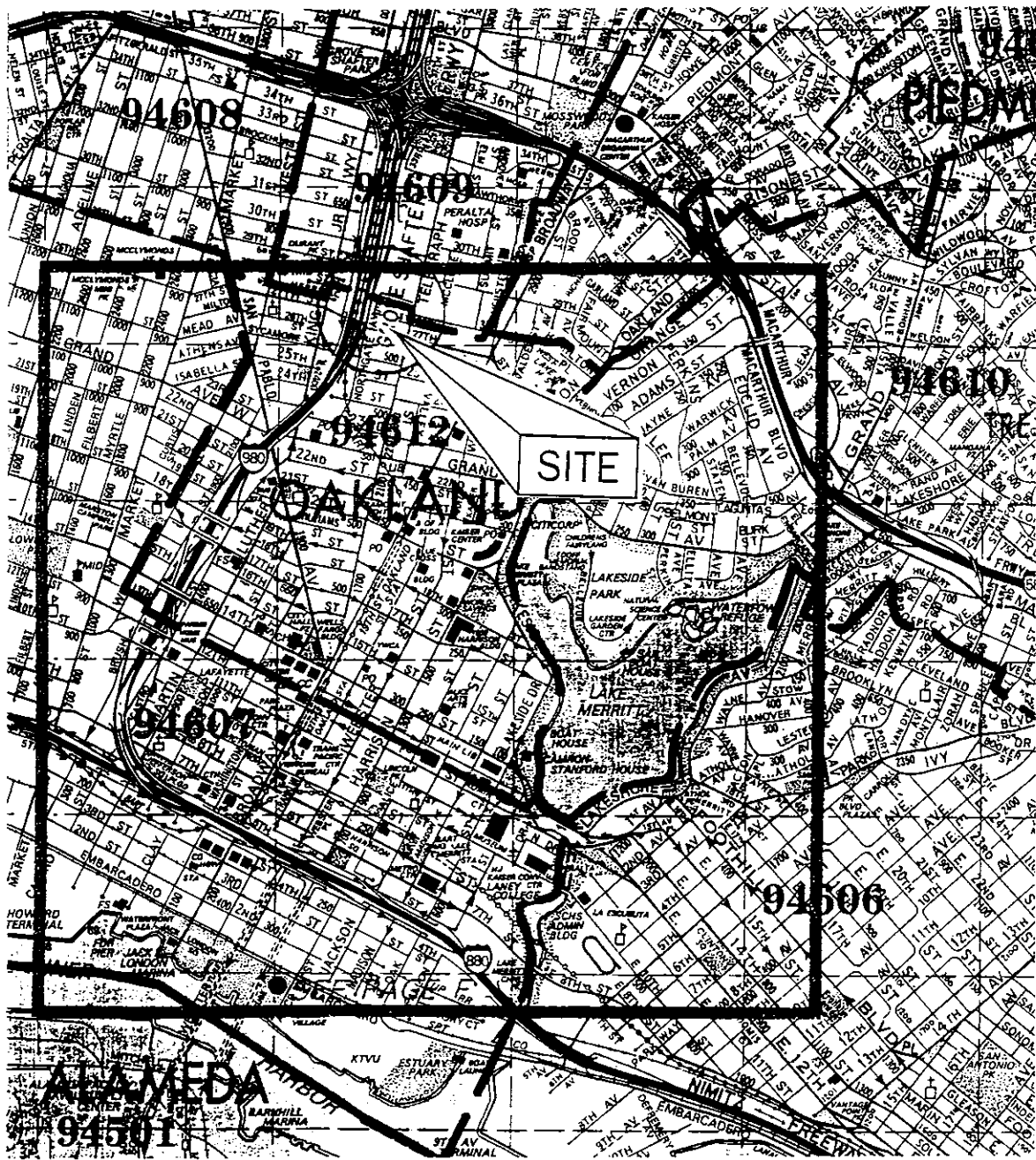
- APPENDIX A PERMITS AND NOTIFICATION DOCUMENTS  
HEALTH & SAFETY PLAN
- APPENDIX B ANALYTICAL RESULTS
- APPENDIX C BORING LOGS, WELL CONSTRUCTION DIAGRAM,  
WELL FIELD SAMPLING FORM

## 1.0 INTRODUCTION

All Environmental, Inc. (AEI) has prepared this report on behalf of Joan Schoonbrood, in response to her request for a soil and groundwater investigation at 554 27th Street, Oakland, California (Figure 1: Site Location Map). The investigation was initiated by the property owner in accordance with the requirements of the Alameda County Health Care Services Agency (ACHCSA), Department of Environmental Health. The investigation was conducted to assess contaminant levels in soil and groundwater following the removal of four underground fuel tanks in January, 1995.

AEI drilled three soil borings and converted each boring into a groundwater monitoring well on June 22, 1995. This subsurface investigation included logging boreholes under the supervision of a Registered Professional Engineer, soil sampling and analyses, well development, and groundwater sampling and analyses. Prior to drilling, a work plan compiled by AEI was approved by Jennifer Eberle, Hazardous Materials Specialist for ACHCSA. A Drilling Permit was obtained from Zone 7 Water Agency, and the property owners were notified verbally.

AEI performed quarterly groundwater monitoring and sampling on July 10, 1995. This phase of work included taking groundwater level measurements in order to establish groundwater flow and gradient at the site, and obtaining and analyzing well water samples in order to establish contaminant levels.



© Thomas Bros. 1993

Scale: 1" = 2200'

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

DRAWN BY: MK  
DATE: May, 1995

REVISED BY:  
APPROVED BY:

SITE LOCATION MAP

554 27th Street, Oakland

FIGURE 1

## **2.0 SITE DESCRIPTION AND BACKGROUND**

The site is located in a commercial zone at 554 27th Street, Oakland, California, and presently has no tenant. Refer to Figure 1, Site Location Map. The topography of the site is relatively flat, and slopes gently toward San Francisco Bay, located approximately 1.7 miles to the west.

Four underground storage tanks were removed from the property by AEI in January, 1995. The underground storage tanks were of the following types: one 6000-gallon gasoline, one 8,000-gallon gasoline, one 10,000-gallon gasoline, and one 500-gallon waste oil. The previous tank locations are shown in Figure 2.

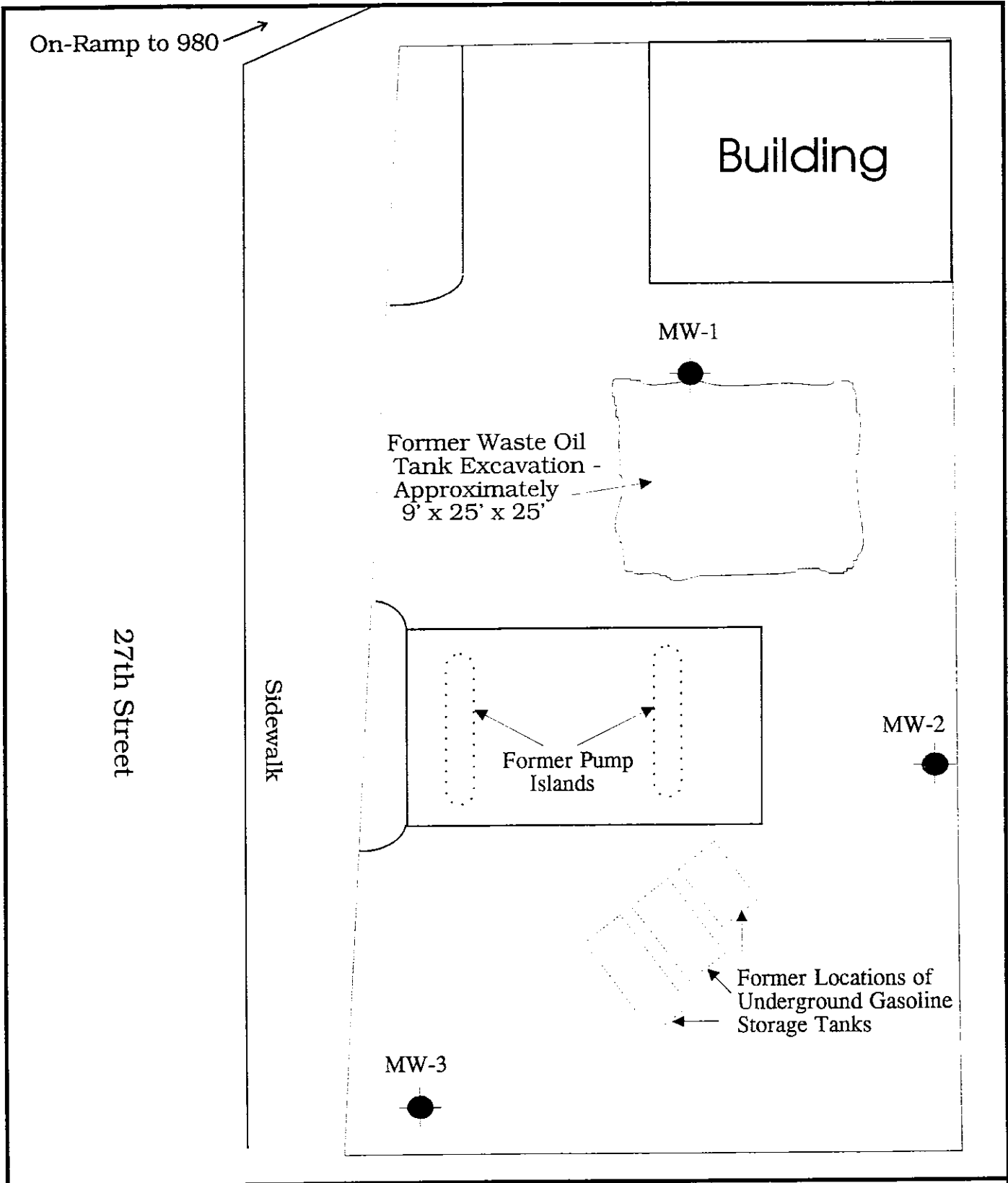
The levels of contamination in soil samples collected from below the gasoline tank excavation and from beneath the dispenser islands were found to be fairly low. However, levels of contamination in soil samples from the waste oil tank excavation and stockpile were found to be moderate to high, with as much as 36,000 ppm Oil & Grease, and 29 ppb of benzene.

## **3.0 PERMITS**

The Zone 7 Drilling Permit Application, approved by Mr. Wyman Hong, Hazardous Materials Specialist with the Zone 7 Water Agency, is included in Appendix A.

## **4.0 GEOLOGY AND HYDROGEOLOGY**

Soil boring logs recorded on-site by one of AEI's geologists are included in Appendix C. According to the logs, the near-surface geology of the site consisted of silty or sandy clay from the surface to about 10 feet below ground surface. From about 9 feet to 20 feet below ground surface, a gravel-sand-clay mixture was encountered.



MW-1

Monitoring Well Location

N

Scale: 1" = 20'

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

DRAWN BY: MK	REVISED BY:
DATE: May, 1995	APPROVED BY:

**SITE PLAN**

554 27th Street, Oakland	FIGURE 2
--------------------------	----------



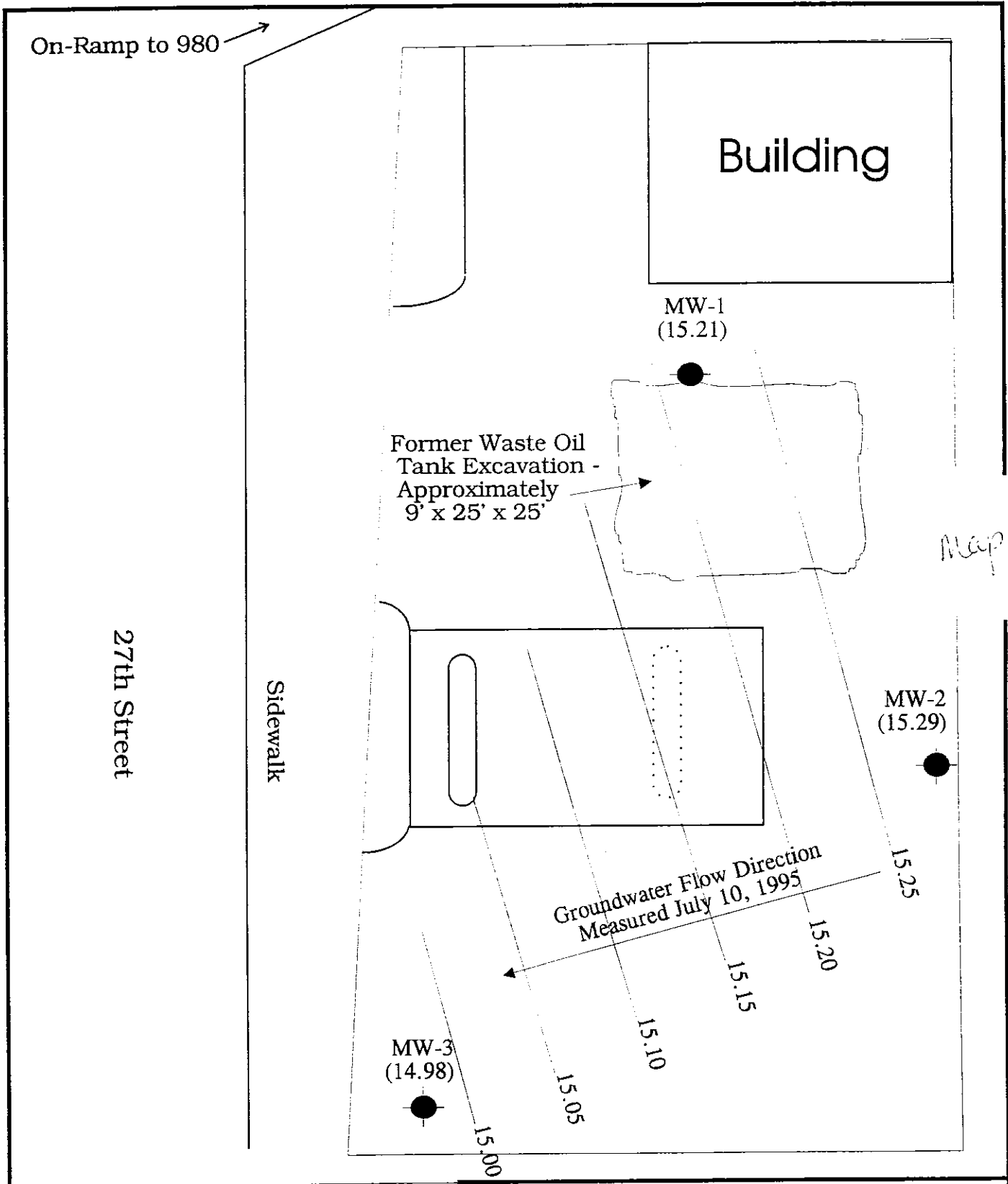
Groundwater was first encountered in sand-bearing soil during drilling at a depth of about 10 feet below ground surface. Refer to Appendix C for the Groundwater Monitoring Well Field Sampling Forms. Water level measurements made during the first quarterly groundwater monitoring and sampling episode of July 10, 1995 indicated that the static water was at about 8.5 feet below ground surface. The groundwater flow based on these measurements is nearly due south, and the gradient is slight at approximately 0.004 feet per foot. The water level elevations used in arriving at the groundwater gradient and flow direction are shown in Figure 3, Groundwater Gradient, and are summarized in the table below:

**Table 1 - Water Level Measurements - July, 1995**

Well	Depth to Water (feet)	Top of Casing Elevation (feet)	Groundwater Elevation (feet)
MW-1	8.27	23.48	15.21
MW-2	8.62	23.91	15.29
MW-3	8.35	23.33	14.98

## 5.0 SOIL BORINGS

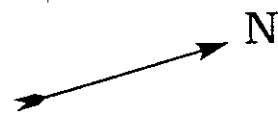
On June 22, 1995, three soil borings were advanced and converted into monitoring wells MW-1, MW-2, and MW-3 at the locations shown on Figure 2. A Mobile B-53 hydraulic stem rotary drill with 6.25" I.D./10.5" O.D. hollow stem augers was used to drill the borings. All borings were drilled to a depth of about 20 feet below ground surface. Boring logs were maintained during drilling by one of AEI's geologists using the Unified Soil Classification System. Boring logs are presented in Appendix C.



MW-1  
(15.21)



Monitoring Well Location  
and Casing Top Elevation



Scale: 1" = 20'

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

DRAWN BY: MK  
DATE: May, 1995

REVISED BY:  
APPROVED BY:

**GROUNDWATER GRADIENT**

554 27th Street, Oakland

FIGURE 3

Undisturbed soil samples were obtained with a hammer-driven California Modified split spoon sampler. The sampler, containing two-inch diameter brass sample tubes, was advanced ahead of the auger tip by successive hammer blows. Soil samples were taken at depths of 6 and 11 feet below ground surface in each of the three borings.

Cuttings generated during drilling were stored on-site in 55 gallon drums. On-site treatment or off-site disposal of contaminated drill cuttings is not a part of this work scope. It is likely that a licensed hauler will be contracted to transport the soils as non-hazardous waste, under appropriate manifests, to a local landfill facility. The costs associated with disposal of the soils will depend on the nature and degree of contamination of the soil.

## **6.0 WELL CONSTRUCTION**

The three soil borings were drilled and converted into monitoring wells at the locations shown in Figure 2. Wells were constructed with 7.5 feet of 2" flush threaded blank Schedule 40 PVC blank casing, and 12 feet of .020" factory-slotted well screen that was installed through the hollow auger. The blank casing extends from about 0.5 feet to 8.0 feet below ground surface. The slotted casing extends from 8.0 feet to near the total depth of the boring, 20.0 feet. The well screen was fitted with a flush-threaded bottom cap. No. 3 Monterey sand was poured through the auger to form a sand pack from the total depth of 6.0 feet to 20.0 feet below ground surface (2 feet above the slotted well screen). Approximately 1 foot of bentonite pellets were placed above the sand and hydrated with tap water. The remainder of the boring was filled to about 0.5 feet below grade with neat cement grout. A flush mounted traffic rated well box was installed over the casing, and an expanding, locking water tight inner cap was placed on the casing top. Refer to the Well Construction Diagram in Appendix C.

## **7.0 SOIL SAMPLING**

Soil samples were collected for chemical analyses to assess the extent of any contamination in soil resulting from unauthorized releases of petroleum hydrocarbons. All six soil samples were submitted for chemical analyses for TPHg, TPHd, and the volatile compounds benzene, toluene, ethylbenzene, and xylenes (BTEX) to a California State Certified Laboratory, Priority Environmental Labs of Milpitas, California. The two samples from boring MW-1 were also submitted for Total Oil & Grease (TOG) and the metals cadmium, chromium, and lead analysis.

Soil sampling equipment was decontaminated prior to each use with a TSP solution and rinsed with tap water in plastic buckets. The drill rig and augers were steam-cleaned prior to drilling and on-site before departure. Decontamination water was placed into labeled drums for proper disposal.

Soil samples were sealed using aluminum foil, Teflon caps and duct tape. The samples were put in an ice chest containing ice and transported under chain of custody procedures for submittal to Priority Environmental Labs, Inc., of Milpitas, California, a California State Certified Laboratory.

## **8.0 WELL DEVELOPMENT AND SAMPLING**

The wells were developed by surging each well twice and bailing well water into a DOT 17H drum until the water appeared to be reasonably clear with a minimum of 5 well volumes removed. The bailed water was turbid at first, but became nearly clear by the end of the well

development. The water level returned to a static level in a few minutes. The Groundwater Well Sampling Field Log is included in Appendix C.

Sampling was performed on July 10, about 72 hours following well development, to allow the wells to recharge at or near one-hundred percent. Groundwater was checked for sheen and free product prior to purging and sampling. No sheen or free product was observed. The samples were taken using a clean disposable bailer. Water was poured from the bailer into amber liter bottles and 40 ml VOA vials and capped so that no head space or visible air bubbles within the sample containers. The samples were labeled and placed on ice in an ice chest for transportation to Priority Environmental Labs under chain of custody protocol for analysis.

## **9.0 ANALYTICAL RESULTS OF SAMPLES**

All environmental soil and water samples were analyzed at a California State Certified Laboratory, Priority Environmental Labs of Milpitas, California. A total of six soil samples were submitted for chemical analyses. All six soil samples were analyzed for TPHg, TPHd, and BTEX. The two soil samples obtained from MW-1 were also analyzed for TOG and the metals cadmium, chromium, and lead. Laboratory results and chain of custody documents are included in Appendix B. All soil analyses indicated only nondetectable concentrations of TPHg, TPHd, and BTEX. Cadmium, chromium, and lead were found at detectable levels, but the concentrations were well below the Total Threshold Limit Concentration (TTLC), the threshold at which a waste is considered to be “hazardous,” according to Title 22 of the California Code of Regulations. Analytical results of soil sample analyses are presented in the table below:

20  
data

**Table 2 - Soil Analyses**

Sample Number	TPHg mg/Kg	TPHd mg/Kg	Benzene ug/Kg	Toluene ug/Kg	Ethylbenzene ug/Kg	Xylenes ug/Kg	Cadmium mg/Kg	Chromium mg/Kg	Lead mg/Kg	TOG mg/Kg
MW-1-6'	ND	ND	ND	ND	ND	ND	1.4	77	3.8	ND
MW-1-11'	ND	ND	ND	ND	ND	ND	1.9	87	4.6	ND
MW-2-6'	ND	ND	ND	ND	ND	ND	---	---	---	---
MW-2-11'	ND	ND	ND	ND	ND	ND	---	---	---	---
MW-3-6'	ND	ND	ND	ND	ND	ND	---	---	---	---
MW-3-11'	ND	ND	ND	ND	ND	ND	---	---	---	---

mg/Kg = ppm

ug/Kg = ppb

ND = Not Detected

--- = Not analyzed

A total of three water samples were analyzed for TPHg, TPHd, and BTEX. Additionally, the water sample from MW-1 was analyzed for TOG and the metals cadmium, chromium, lead nickel, and zinc. Laboratory results and chain of custody documents are included in Appendix B. All water analyses indicated only nondetectable concentrations of TPHg, TPHd, BTEX, TOG, cadmium, chromium, lead, nickel, and zinc. Analytical results of water sample analyses are presented in the tables below:

**Table 3 - Water Analyses, July, 1995**

Sample Number	TPHg mg/Kg	TPHd mg/Kg	Ben- zene ug/Kg	Toluene ug/Kg	Ethyl- benzene ug/Kg	Xylenes ug/Kg	TOG mg/Kg
MW-1	ND	ND	ND	ND	ND	ND	ND
MW-2	ND	ND	ND	ND	ND	ND	---
MW-3	ND	ND	ND	ND	ND	ND	---

mg/Kg = ppm

ug/Kg = ppb

ND = Not Detected

--- = Not analyzed

*Handwritten mark*

**Table 4 - Water Analyses, July, 1995**

Sample Number	Cad- mium mg/Kg	Chro- mium mg/Kg	Lead mg/Kg	Nickel mg/Kg	Zinc mg/Kg
MW-1	ND	ND	ND	ND	ND
MW-2	---	---	---	---	---
MW-3	---	---	---	---	---

mg/Kg = ppm

ND = Not Detected

--- = Not analyzed

## **10.0 CONCLUSIONS AND RECOMMENDATIONS**

AEI conducted a soil and groundwater investigation on June 22, 1995, beginning with the advancement of three soil borings in order to determine the presence of contamination in soil and groundwater below the site. All three borings were converted to groundwater monitoring wells. Analyses of soil samples obtained from the borings by AEI indicated that concentrations of TPHg, TPHd, BTEX, and TOG were below detectable levels. The metals cadmium, chromium, and lead were found at detectable levels in the soil samples, but were present well below the Total Threshold Limit Concentration (TTLC), a the threshold at which a waste is considered to be "hazardous," according to Title 22, the California Code of Regulations.

Water samples obtained for the first quarterly groundwater monitoring event indicated that concentrations of TPHg, TPHd, BTEX, TOG, cadmium, chromium, and lead were below detectable levels. Quarterly well monitoring should be continued for a period of at least one year. The next quarterly sampling will be conducted in October, 1995.

## **11.0 REPORT LIMITATIONS**

This report presents a summary of work completed by All Environmental, Inc., including observations and descriptions of site conditions. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide required information, but it cannot be assumed that they are entirely representative of all areas not sampled. All conclusions and recommendations are based on these analyses, observations, and governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.



AEI warrants that all services were performed in accordance with the generally accepted practices in the environmental engineering and construction field which existed at the time and location of the work.

# **APPENDIX A**

## **PERMITS AND NOTIFICATION DOCUMENTS HEALTH & SAFETY PLAN**

JUN-16-1995 14:51

2

P.02



# ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2800  
FAX (510) 482-3914

## DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

### LOCATION OF PROJECT

554 27th St.  
Oakland, CA 94612

PERMIT NUMBER 95379

LOCATION NUMBER

### CLIENT

Name Ms. Jean Schoonbrood  
Address PO Box 7442  
City Menlo Park, CA Zip 94025

### PERMIT CONDITIONS

Circled Permit Requirements Apply

### APPLICANT

Name Jean Schoonbrood / All Environmental  
Address 2641 Crown Canyon Rd  
City San Ramon Zip 94583  
In care of  
Fax 510-838-2687  
Voice 510-820-3224

### A. GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

### TYPE OF PROJECT

Well Construction	Geotechnical Investigation
Cathodic Protection	General
Water Supply	Contamination
Monitoring	Well Destruction

### PROPOSED WATER SUPPLY WELL USE

Domestic	Industrial	Other
Municipal	Irrigation	

### DRILLING METHOD:

Mud Rotary	Air Rotary	Auger
Cable	Other	

### DRILLER'S LICENSE NO.

### WELL PROJECTS

Drill Hole Diameter	8.25 in.	Maximum	
Casing Diameter	7 in.	Depth	40 ft.
Surface Seal Depth	2.5 ft.	Number	3

### GEOTECHNICAL PROJECTS

Number of Borings		Maximum	
Hole Diameter		Depth	

### ESTIMATED STARTING DATE

### ESTIMATED COMPLETION DATE

6/22/95  
6/22/95

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-88.

APPLICANT'S SIGNATURE

*[Signature]*  
All Environmental, Inc.  
Date 6/16/95

Approved

*[Signature]*  
Wyman Hong

Date 22 Jun 95

91992

## HEALTH AND SAFETY PLAN

Prepared for:

554 27th Street  
Oakland, CA



allowed to enter. All personnel arriving or departing the site should log in before entering the exclusion zone. All activities on site must be cleared through the Site Manager.

#### D. HAZARD EVALUATION

Potential chemical hazards include skin and eye contact or inhalation exposure to potentially toxic concentrations of hydrocarbon vapors. The potential toxic compounds that may exist at the site are listed below with descriptions of specific health effects of each. The list includes the primary potential toxic constituents that may be found at sites which previously handled petroleum hydrocarbons, including home heating diesel fuel.

##### 1. Benzene

- a. Colorless to light yellow, flammable liquid with an aromatic odor.
- b. Toxic hazard by **inhalation, adsorption, ingestion and skin and/or eye contact.**
- c. Exposure may irritate eyes, nose and respiratory system and may cause acute restlessness, convulsions, nausea, or depression. Benzene is carcinogenic.\*
- d. Permissible exposure level (PEL) for a time weighted average (TWA) over an eight hour period is 1.0 ppm.

##### 2. Toluene

- a. Colorless liquid with a sweet, pungent, benzene like odor.
- b. Toxic hazard by **inhalation, adsorption, ingestion and skin and/or eye contact.**
- c. Exposure may cause fatigue, weakness, confusion, euphoria, dizziness, headaches, dilated pupils, lacrimation, nervousness, insomnia, paresthesia, and dermatitis.
- d. Permissible exposure level for a time weighted average over an eight hour period is 100 ppm.

##### 3. Xylene

- a. Colorless liquid with an aromatic odor.
- b. Toxic hazard by **inhalation, adsorption, ingestion and skin and/or eye contact.**
- c. Exposure may irritate eyes nose and throat and may cause dizziness, excitement, drowsiness, incoordination, corneal vacuolization, anorexia, nausea, vomiting, and dermatitis.
- d. Permissible exposure level for a time weighted average over an eight hour period is 100 ppm.

##### 4. Ethylbenzene

- a. Colorless liquid with an aromatic odor.
- b. Toxic hazard by **inhalation, ingestion, and skin and/or eye contact.** Ethylbenzene is carcinogenic.\*
- c. Exposure may irritate eyes and mucous membrane and may cause headaches, dermatitis, narcosis and loss of consciousness.
- d. Permissible exposure level for a time weighted average over an eight hour period is 100 ppm.

5. Lead

- a. A heavy ductile soft grey metal.
- b. Toxic hazard by **inhalation, ingestion, and skin and/or eye contact.**
- c. Exposure may cause weakness, nausea, lassitude, diarrhea, insomnia, anorexia, inflamed mucous membranes and abdominal pains. Lead is carcinogenic.\*
- d. Permissible exposure level for a time weighted average over an eight hour period is .05 ppb (in vapor).

6. Diesel

- a. Colorless to dark brown, combustible liquid with an aromatic odor
- b. Toxic hazard by **inhalation, ingestion, skin and/or eye contact.**
- c. Inhalation of vapors may depress the central nervous system, increasing reaction times, and decreasing pulse rate and blood pressure. Skin irritant.
- d. Occupational exposure limit 5.0 ppm (in vapor).

7. Gasoline

- a. Colorless liquid with a strong aromatic odor. Highly volatile and extremely flammable.
- b. Toxic hazard by **inhalation, adsorption, ingestion, and skin and/or eye contact.**
- c. Inhalation of vapors can cause depression of the central nervous system with symptoms such as headache, dizziness, nausea, and loss of coordination. Skin contact can cause defatting of the skin, skin irritation, and dermatitis. Benzene is a major constituent of gasoline.
- d. Permissible exposure level for a time weighted average over an eight hour period is 300 ppm.

8. Waste Oil

- a. Toxic hazard by **ingestion** and possibly **inhalation.**
- b. Prolonged contact may cause skin irritation and dermatitis. Waste oil may be carcinogenic.\*
- c. Waste oil may contain metals or toxic organics from thermal breakdown of the oil. In some cases, chlorinated solvents may be present.
- d. Permissible exposure level for a time weighted average over an eight hour period is 5 ppm (in vapor).

\* Known to the State of California to cause cancer.

Dusty Roy has been designated to coordinate access control and security on site. All work will strictly follow OSHA guidelines. A safe perimeter has been established at a three foot radius surrounding the site. These boundaries are identified by yellow caution tape and orange safety cones. Personnel shall maintain the maximum distance from the pit while performing their duties. No one shall enter an excavation pit that is greater than five feet in depth unless the excavation is shored or sloped and no one shall climb on the stockpiled material except to cover it with plastic. Additional hazards on site include heavy equipment and overhead lifting equipment. Heavy equipment used for performing the tank removal project may include a backhoe, an excavator, or a crane for lifting the tank out of the excavation. Only 40 hour trained personnel will operate equipment or perform any duty associated with this project. A hard hat and steel toed boots are mandatory for all personnel associated with the tank removal.

A FIRST AID KIT AND A 40 POUND BC FIRE EXTINGUISHER WILL BE AVAILABLE ON SITE.

EMERGENCY SERVICES ARE AVAILABLE BY DIALING 911 ON THE TELEPHONE LOCATED IN THE SITE MANAGER'S VEHICLE. THIS VEHICLE WILL BE ON SITE AT ALL TIMES.

#### E. PERSONAL PROTECTIVE CLOTHING

Based on evaluation of potential hazards, level "D" protective clothing has been designated as the appropriate protection for this project. The level of protective clothing will be upgraded if the organic vapor levels in the operator's breathing zone exceeds 5 ppm above background levels continuously for more than five minutes, or if any single reading exceeds 15 ppm. If this occurs then level C protection will be used. If the organic concentration in the operator's breathing zone exceed's 200 ppm for 5 minutes and/or the organic vapor concentration two feet above the excavation exceeds 1,000 ppm or 10% of the lower explosive limit, then the equipment will be shut down and the site evacuated. If organic vapor concentrations exceed 200 ppm and work continues then level B protection will be required.

"EPA Standard Operating Safety Guidelines" defines the levels of protective clothing as follows:

##### LEVEL A:

Fully encapsulating suit / SCBA / Hard hat / Steel toe boots / Safety gloves.

##### LEVEL B:

Splash resistant suit / SCBA / Hard Hat / Steel toe boots / Safety gloves.

##### LEVEL C:

Half face respirator / Hard hat / Safety glasses / Steel toe boots / Coveralls / Gloves.

##### LEVEL D:

Coveralls / Hard hat / Safety Glasses / Steel toe boots / Gloves.



NO CHANGES TO THE SPECIFIED LEVELS OF PROTECTION SHALL BE MADE WITHOUT THE APPROVAL OF THE COMPANY SAFETY OFFICER, G. W. ROY.

F. MONITORING INSTRUMENTS

The following environmental monitoring instruments shall be used on site at specified intervals.

Lower Explosive Limit (LEL) Meter that will also check the tank for Oxygen levels will be used to check the tank for removal and transportation.

G. EMERGENCY HOSPITAL

The closest hospital with an emergency room is:

**PERALTA HOSPITAL**

**(510) 451-4900**

DIRECTIONS FROM THE JOB SITE:

EXIT JOBSITE AND GO:

Right on 27th, make U-turn;  
Left on Telegraph;  
Right on 30th Street;  
Hospital is located on the left.

# QUALITY ASSURANCE/QUALITY CONTROL PROCEDURE

## I. QA OBJECTIVES:

We at Priority Environmental Labs (PEL), commit to a quality assurance program designed to guarantee our analytical results are valid and properly documented.

## II. SAMPLING PROCEDURES:

Sampling should be done according to EPA guidelines. Precautions are taken to avoid sample contamination and to maintain sample integrity. Proper containers and preservation techniques are used if necessary. For example, with water samples requiring volatile organic analysis, 40 ml vials with teflon-lined septa are used. For water samples requiring semi-volatile organic analysis, 1-liter glass bottles with teflon-lined septa are used.

In case we provide these containers for our clients, we buy only EPA-approved containers. Once they arrive, they are washed in detergent and rinsed first with tap water then with deionized water.

## III. SAMPLE CUSTODY:

The sampler is required to secure his samples upon arrival at the laboratory. Next, samples are inspected by our receiver to assure that proper containers, their conditions, and needed preservatives are used. Our receiver also inspects all necessary information such as sample identification, time of collection, sampling techniques, analysis required, etc. If needed, we can provide clients with our chain of custody. A PEL file number is assigned to each batch of samples to identify it.

Finally, samples are ready to be stored in refrigerators which are daily monitored to make sure their temperatures are less than 4 degrees centigrade.

## IV. CALIBRATION PROCEDURES AND FREQUENCY

For routine analyses, a five-point calibration curve is used. Then, a mid-point standard is run every day. If the response factor of this mid-point standard is less than 20% of the calibration curve, the average response factor from the calibration will be used for

calculation. Otherwise, a new calibration curve will be established after needed correction measures are performed.

For non-routine analyses, a three-point calibration curve will be established and its average response factor is used for calculation.

#### V. ANALYTICAL PROCEDURES:

Analyses are performed according to methods in Test Methods for Evaluating Solid Waste, SW-846, Third Edition, LUFT, Methods for Organic Chemical Analysis of Municipal and Industrial Waste Water, EPA - 600/4-82-057, and other methods approved by either EPA or DHS.

In general, before analyzing samples, we run a reagent water blank to make sure that our instrument, glassware and reagents are free of contamination.

For each batch of samples, we analyze a sample blank by running a reagent water blank or a clean sample of similar matrix to that of real sample through all steps of preparation and measurement.

Next, a mid-point standard is run to check the validity of our existing calibration curve. Now, we are ready to analyze samples. A duplicate sample and a spiked sample are to be run for any batch of samples or for every ten samples to check the precision of the result and the percentage of recover of compounds spiked.

#### VI. DATA REDUCTION, VALIDATION AND REPORTING:

The analyst responsible for the analysis will perform data reduction and validation by strictly following guidelines set by appropriate approved methods.

Later, his data interpretation and calculation will be checked by a supervisor for validity before a typed report is issued. Both the analyst and his supervisor will proofread the report for any error before sending it to the client.

A copy of the report along with a copy of the chain of custody, chromatogram if any, calculation sheets and other information related to the analysis will be kept on file.

#### VII. INTERNAL QUALITY CONTROL CHECKS:

For every batch of sample, a quality control check sample will be run. This check sample will have all analyses needed to be determined in real samples. If any problem occurs, the corresponding supervisor will determine the appropriate corrective action.

VIII. PERFORMANCE AND SYSTEM AUDITS:

Several times a month, the supervisor will test the measurement systems with samples of known compositions or behavior to evaluate precision and accuracy without the knowledge of the analyst to determine whether the measurement systems are being used appropriately.

IX. PREVENTIVE MAINTENANCE:

All instruments in the laboratory are regularly checked and maintained following manufacturer's suggestions. Any replacement, modification is timely recorded in an instrument record logbook.

X. PROCEDURES FOR DATA PRECISION AND ACCURACY:

We follow the quality assurance criteria set by the California Department of Health Services.

XI. CORRECTIVE ACTION:

Whenever a problem occurs, we will apply the following procedures:

- Identifying and defining the problem.
- Assigning responsibility for investigation the problem.
- Investigating the cause of the problem.
- Determine corrective action to eliminate the problem which may be a combination of:
  - \*A thorough check of instruments.
  - \*A thorough check of standards, reagents, deionized water.
- Accepting responsibility for the corrective action.
- Evaluating its effectiveness.
- Verifying that the corrective action has eliminated the problem.

XII. QUALITY ASSURANCE REPORT:

Our quality assurance program is maintained periodically. QA/AC data are recorded in different logbooks for different methods of analyses. These logbooks are weekly reviewed by our laboratory director.

The final report sent to our clients also includes all quality control data obtained while running samples.



**APPENDIX B**  
**ANALYTICAL RESULTS**



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

June 26, 1995

PEL # 9506083

ALL ENVIRONMENTAL, INC.

Attn: Mike Killoran

Re: Six soil samples for Gasoline/BTEX, Diesel, and Oil & Grease analyses.

Project name: Schoonbrood  
Project number: 1234

Date sampled: June 22, 1995  
Date extracted: June 23-26, 1995

Date submitted: June 23, 1995  
Date analyzed: June 23-26, 1995

### RESULTS:

SAMPLE I.D.	Gasoline (mg/Kg)	Diesel (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Oil & Xylene (ug/Kg)	Grease (mg/Kg)
MW1-6'	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW1-11'	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW2-6'	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	---
MW2-11'	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	---
MW3-6'	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	---
MW3-11'	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	---
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	84.4%	90.2%	84.0%	85.1%	90.5%	84.1%	---
Detection limit	1.0	1.0	5.0	5.0	5.0	5.0	10
Method of Analysis	5030 / 8015	3550 / 8015	8020	8020	8020	8020	5520 D & F

David Duong  
Laboratory Director





# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

June 26, 1995

PEL # 9506083

ALL ENVIRONMENTAL, INC.

Attn: Mike Killoran

Re: Two soil samples for Cadmium, Chromium, and Lead analyses.

Project name: Schoonbrood

Project number: 1234

Date sampled: June 22, 1995

Date submitted: June 23, 1995

Date extracted: June 23-26, 1995

Date analyzed: June 23-26, 1995

## RESULTS:

SAMPLE I.D.	Cadmium (mg/Kg)	Chromium (mg/Kg)	Lead (mg/Kg)
MW1-6'	1.4	77	3.8
MW1-11'	1.9	87	4.6
Blank	N.D.	N.D.	N.D.
Detection limit	1.0	1.0	1.0
Method of Analysis	7130	7190	7420

David Duong  
Laboratory Director





# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

July 13, 1995

PEL # 9507012

ALL ENVIRONMENTAL, INC.

Attn: Mike Killoran

Re: One water sample for Cadmium, Chromium, Lead, Nickel, and Zinc analyses.


Project name: Schoonbrood  
Project number: 1243

Date sampled: Jul 10, 1995  
Date extracted: Jul 11-13, 1995

Date submitted: Jul 11, 1995  
Date analyzed: Jul 11-13, 1995

**RESULTS:**

SAMPLE I.D.	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Nickel (mg/L)	Zinc (mg/L)
MW-1	N.D.	N.D.	N.D.	N.D.	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.
Detection limit	0.10	0.10	0.05	0.10	0.10
Method of Analysis	7130	7190	7420	7520	7950

  
 David Duong  
 Laboratory Director



# **APPENDIX C**

## **BORING LOGS**

### **WELL CONSTRUCTION DIAGRAMS**

### **GROUNDWATER MONITORING WELL FIELD SAMPLING FORMS**

<b>PROJECT:</b> SCHOONBROOD #1243	<b>LOG OF BOREHOLE:</b> MW-1	
<b>BORING LOC.:</b> 554 27th Street, Oakland, California	<b>ELEVATION, TOC:</b> N/A	
<b>DRILLING CONTRACTOR:</b> GREGG DRILLING	<b>START DATE:</b> 6/22/95	<b>END DATE:</b> 6/22/95
<b>DRILLING METHOD:</b> HOLLOW STEM AUGER	<b>TOTAL DEPTH:</b> 20.0'	
<b>DRILLING EQUIPMENT:</b> MOBILE B-61	<b>DEPTH TO WATER:</b> ~ 10.0'	
<b>SAMPLING METHOD:</b> 2" Cal. Mod. Split Spoon Sampler	<b>LOGGED BY:</b> M. Killoran	
<b>HAMMER WEIGHT and FALL:</b> 140 lb, 30"	<b>RESPONSIBLE PROFESSIONAL:</b> MCP	

DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION	SAMPLES	
			SAMPLE INTERVAL	BLOW COUNTS
1		(No asphalt).		
1-2	CL	Dark brown silty clay, moist, medium dense, no odor.		
2-3				
3-4		Brown very silty clay, moist, medium dense, no odor.		
4-5				
5-6	CL	Brown very silty clay, moist, very stiff, no odor.		7
6-7				8
7-8				14
8-9				
9-10				
10-11	GC	Brown gravel-sand-clay mixture, very moist to wet, very dense, no odor.		17
11-12				21
12-13				32
13-14				

MW-1-6'

MW-1-11'



<b>PROJECT:</b> SCHOONBROOD #1243	<b>LOG OF BOREHOLE:</b> MW-1	
<b>BORING LOC.:</b> 554 27th Street, Oakland, California	ELEVATION, TOC: N/A	
<b>DRILLING CONTRACTOR:</b> GREGG DRILLING	START DATE: 6/22/95	END DATE: 6/22/95
<b>DRILLING METHOD:</b> HOLLOW STEM AUGER	TOTAL DEPTH: 20.0'	
<b>DRILLING EQUIPMENT:</b> MOBILE B-61	DEPTH TO WATER: ~ 10.0'	
<b>SAMPLING METHOD:</b> 2" Cal. Mod. Split Spoon Sampler	LOGGED BY: M. Killoran	
<b>HAMMER WEIGHT and FALL:</b> 140 lb, 30"	RESPONSIBLE PROFESSIONAL: MCP	

DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION	SAMPLES	
			SAMPLE INTERVAL	SAMPLE NUMBER
14	GC	Brown gravel-sand-clay mixture, wet, very dense, no odor.	58 for 5".	(No sample).
15				
16		Same.		
17				
18				
19				
20		Boring terminated at 20.'		

<b>PROJECT:</b> SCHOONBROOD #1243	<b>LOG OF BOREHOLE:</b> MW-2	
<b>BORING LOC.:</b> 554 27th Street, Oakland, California	ELEVATION, TOC: N/A	
<b>DRILLING CONTRACTOR:</b> GREGG DRILLING	START DATE: 6/22/95	END DATE: 6/22/95
<b>DRILLING METHOD:</b> HOLLOW STEM AUGER	TOTAL DEPTH: 20.0'	
<b>DRILLING EQUIPMENT:</b> MOBILE B-61	DEPTH TO WATER: ~ 10.0'	
<b>SAMPLING METHOD:</b> 2" Cal. Mod. Split Spoon Sampler	LOGGED BY: M. Killoran	
<b>HAMMER WEIGHT and FALL:</b> 140 lb, 30"	RESPONSIBLE PROFESSIONAL: MCP	

DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION	SAMPLES	
			SAMPLE INTERVAL	BLOW COUNTS
0	GP (fill)	3" asphalt.		
0-1	GP (fill)	Light brown gravel (fill), moist, very dense, no odor.		
1-2	CL	Dark brown sandy and silty clay, moist, stiff, no odor.		
2-3	CL	Brown very silty clay, moist, stiff, no odor.		
3-4	CL			
4-5	CL			
5-6	CL	Brown and gray mottled very silty and sandy clay, moist, very stiff, no odor.		8
6-7	CL			10
7-8	CL			16
8-9	CL			
9-10	CL			
10-11	GC	Brown gravel-sand-clay mixture, very moist to wet, very dense, no odor. Some lenses of fine-grained sand, ~1/8" - 1/4" thick.		18
11-12	GC			25
12-13	GC			33
13-14	GC			


MW-2-6'

MW-2-11'






<b>PROJECT:</b> SCHOONBROOD #1243	<b>LOG OF BOREHOLE:</b> MW-2	
<b>BORING LOC.:</b> 554 27th Street, Oakland, California	ELEVATION, TOC: N/A	
<b>DRILLING CONTRACTOR:</b> GREGG DRILLING	START DATE: 6/22/95	END DATE: 6/22/95
<b>DRILLING METHOD:</b> HOLLOW STEM AUGER	TOTAL DEPTH: 20.0'	
<b>DRILLING EQUIPMENT:</b> MOBILE B-61	DEPTH TO WATER: ~ 10.0'	
<b>SAMPLING METHOD:</b> 2" Cal. Mod. Split Spoon Sampler	LOGGED BY: M. Killoran	
<b>HAMMER WEIGHT and FALL:</b> 140 lb, 30"	RESPONSIBLE PROFESSIONAL: MCP	

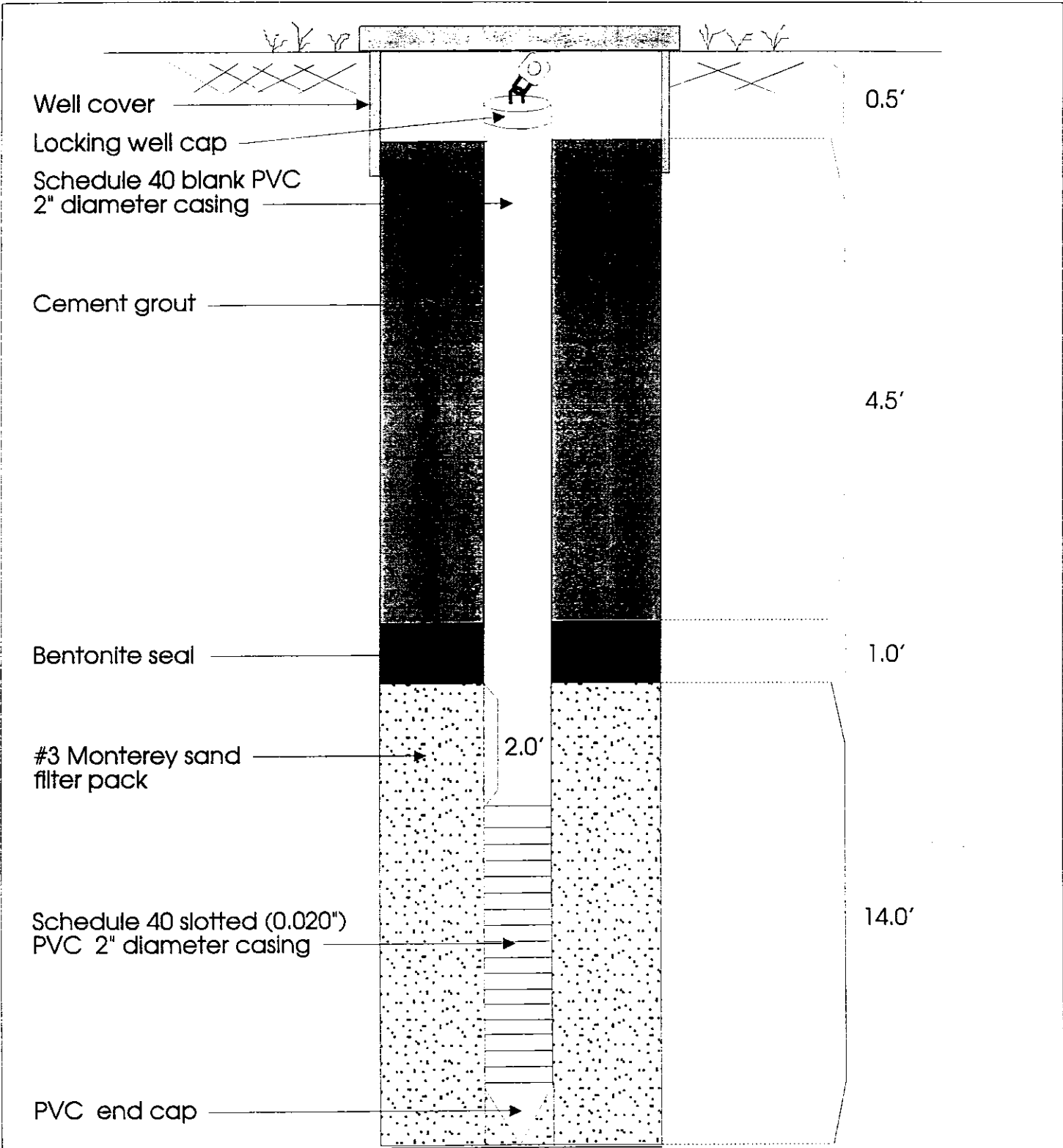
DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION	SAMPLES	
			SAMPLE INTERVAL	BLOW COUNTS
14	GC 	Same, with increase in gravel fraction at ~ 16.'		
15				
16				
17				
18	Same.			(No sample or blow counts taken).
19				
20				
		Boring terminated at 20.'		

<b>PROJECT:</b> SCHOONBROOD #1243	<b>LOG OF BOREHOLE:</b> MW-3	
<b>BORING LOC.:</b> 554 27th Street, Oakland, California	ELEVATION, TOC: N/A	
<b>DRILLING CONTRACTOR:</b> GREGG DRILLING	START DATE: 6/22/95	END DATE: 6/22/95
<b>DRILLING METHOD:</b> HOLLOW STEM AUGER	TOTAL DEPTH: 20.0'	
<b>DRILLING EQUIPMENT:</b> MOBILE B-61	DEPTH TO WATER: ~ 10.0'	
<b>SAMPLING METHOD:</b> 2" Cal. Mod. Split Spoon Sampler	LOGGED BY: M. Killoran	
<b>HAMMER WEIGHT and FALL:</b> 140 lb, 30"	RESPONSIBLE PROFESSIONAL: MCP	

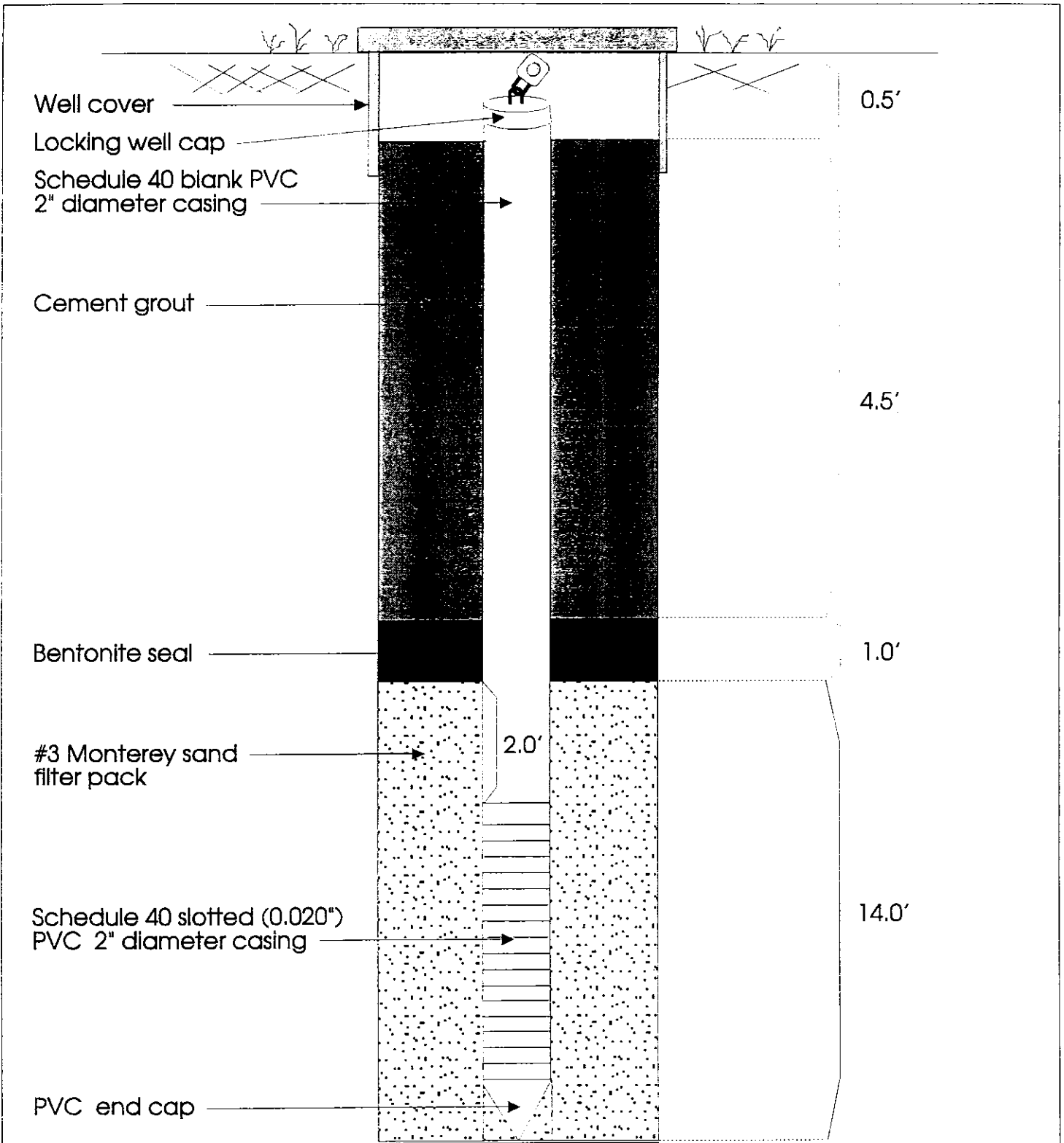
DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION	SAMPLES		
			SAMPLE INTERVAL	BLOW COUNTS	
		3" asphalt.			
1	CL	Dark brown silty clay, moist, stiff, no odor.			
2					
3					
4					
5					
6	CL/ML	Brown very silty and sandy clay and silt, moist, very stiff, no odor.		8	
				9	
				12	MW-3-6'
7					
8	SC	Gray clayey sand with gravel, moist, medium dense, possible slight gasoline odor.			
9					
10					
11	SW	Gray gravelly sand, wet, medium dense, no odor.		8	
				12	
				14	MW-3-11'
12	GC	Brown gravel-sand-clay mixture, wet, medium dense, no odor.			
13					
14					

<b>PROJECT:</b> SCHOONBROOD #1243	<b>LOG OF BOREHOLE:</b> MW-3	
<b>BORING LOC.:</b> 554 27th Street, Oakland, California	<b>ELEVATION, TOC:</b> N/A	
<b>DRILLING CONTRACTOR:</b> GREGG DRILLING	<b>START DATE:</b> 6/22/95	<b>END DATE:</b> 6/22/95
<b>DRILLING METHOD:</b> HOLLOW STEM AUGER	<b>TOTAL DEPTH:</b> 20.0'	
<b>DRILLING EQUIPMENT:</b> MOBILE B-61	<b>DEPTH TO WATER:</b> ~ 10.0'	
<b>SAMPLING METHOD:</b> 2" Cal. Mod. Split Spoon Sampler	<b>LOGGED BY:</b> M. Killoran	
<b>HAMMER WEIGHT and FALL:</b> 140 lb, 30"	<b>RESPONSIBLE PROFESSIONAL:</b> MCP	

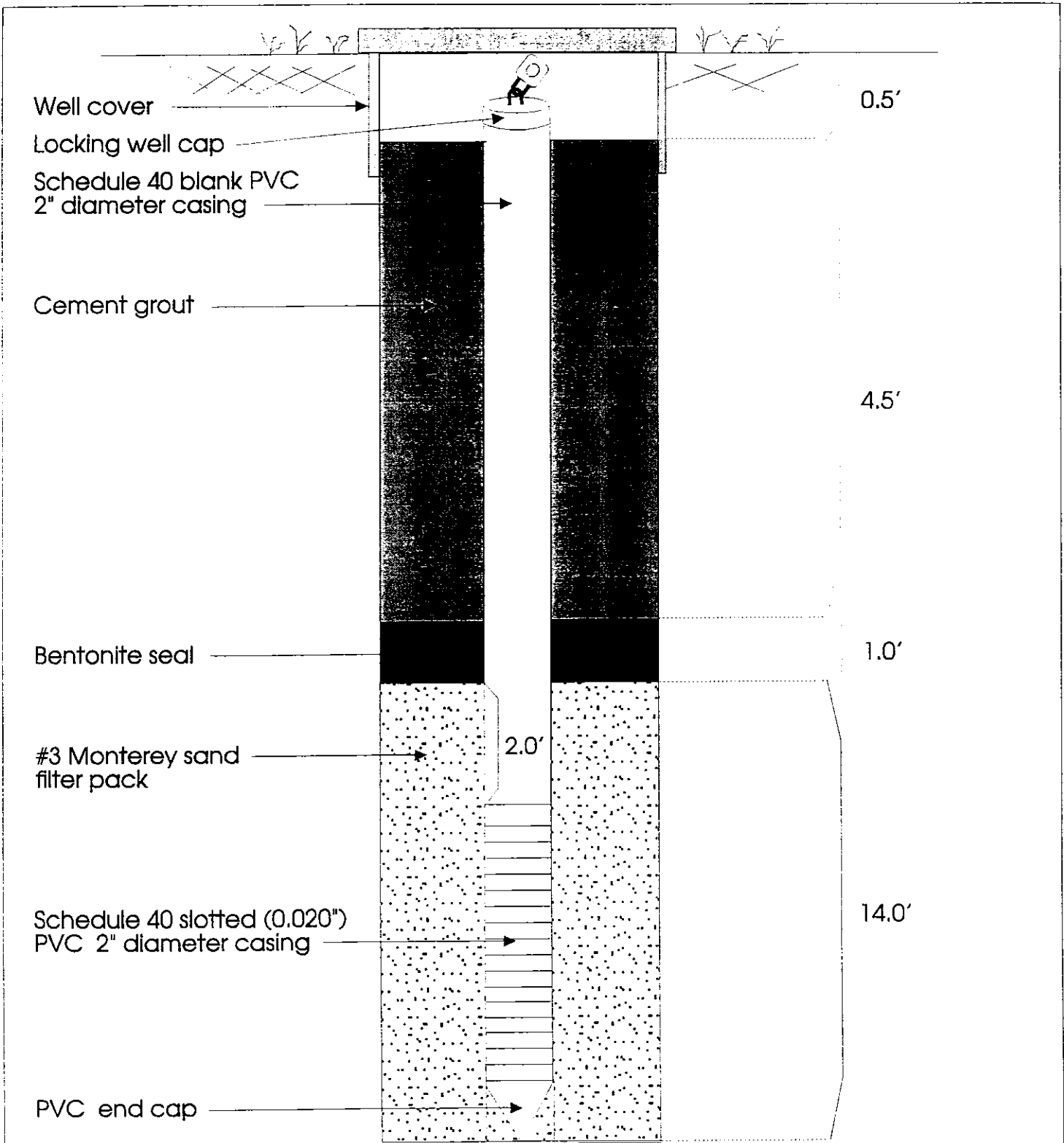
DEPTH (feet)	SOIL SYMBOLS	DESCRIPTION	SAMPLES	
			SAMPLE INTERVAL	BLOW COUNTS
14	GC 	Same, but very loose.		
15				
16				
17				
18				
19				
20				
		Boring terminated at 20.'		
				(No sample or blow counts taken).



<b>ALL ENVIRONMENTAL, INC.</b> 2641 CROW CANYON ROAD, SAN RAMON		
SCALE: 1" = 1/4 MILE	APPROVED BY:	DRAWN BY: Mike Killoran
DATE: July, 1995		REVISED:
<b>WELL CONSTRUCTION DIAGRAM</b>		
554 27th Street Oakland, CALIFORNIA		WELL NUMBER: <b>MW-1</b>



<b>ALL ENVIRONMENTAL, INC.</b> 2641 CROW CANYON ROAD, SAN RAMON		
SCALE: 1" = 1/4 MILE	APPROVED BY:	DRAWN BY: Mike Killoran
DATE: July, 1995		REVISED:
<b>WELL CONSTRUCTION DIAGRAM</b>		
554 27th Street Oakland, CALIFORNIA		WELL NUMBER: <b>MW-2</b>



<b>ALL ENVIRONMENTAL, INC.</b>		
2641 CROW CANYON ROAD, SAN RAMON		
SCALE: 1" = 1/4 MILE	APPROVED BY:	DRAWN BY: Mike Killoran
DATE: July, 1995		REVISED:
<b>WELL CONSTRUCTION DIAGRAM</b>		
554 27th Street Oakland, CALIFORNIA		WELL NUMBER: <b>MW-3</b>

<b>ALL ENVIRONMENTAL INC. -- GROUNDWATER MONITORING WELL FIELD SAMPLING FORM</b>	
<b>Monitoring Well Number: MW-1</b>	
Project Name	Schoonbrood
Job Number	1243
Project Address	554 27th Street
	Oakland, CA
Date of Sampling	07/10/95
Name of Sampler	Dusty Roy
<b>MONITORING WELL DATA</b>	
Well Casing Diameter (2"/4"/6")	2"
Seal at Grade -- Type and Condition	Cement seal, good condition
Well Cap & Lock -- OK/Replace	Locking expanding, good condition
Elevation of Top of Casing	23.48
Depth of Well	20.00
Depth to Water	8.27
Water Elevation	15.21
Three Well Volumes (gallons)*	
2" casing: (TD - DTW)(0.16)(3)	5.6
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	25
Appearance of Purge Water	Turbid to clear
<b>GROUNDWATER SAMPLES</b>	
Number of Samples/Container Size	3 liter; 2 40-ml VOA's
Groundwater Temp/pH/Conductivity #1:	83.8/5.92/3300
Groundwater Temp/pH/Conductivity #2:	
Groundwater Temp/pH/Conductivity #3:	
Appearance of Groundwater Samples	Clear
COMMENTS (i.e., sample odor, well recharge time & percent, etc.)	
No odor; very good recharge.	

TD - Total Depth of Well  
DTW - Depth To Water

<b>ALL ENVIRONMENTAL INC. -- GROUNDWATER MONITORING WELL FIELD SAMPLING FORM</b>	
<b>Monitoring Well Number: MW-2</b>	
Project Name	Schoonbrood
Job Number	1243
Project Address	554 27th Street Oakland, CA
Date of Sampling	07/10/95
Name of Sampler	Dusty Roy
<b>MONITORING WELL DATA</b>	
Well Casing Diameter (2"/4"/6")	2"
Seal at Grade -- Type and Condition	Cement seal, good condition
Well Cap & Lock -- OK/Replace	Locking expanding, good condition
Elevation of Top of Casing	23.91
Depth of Well	20.00
Depth to Water	8.62
Water Elevation	15.29
Three Well Volumes (gallons)*	
2" casing: (TD - DTW)(0.16)(3)	2.3
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	25
Appearance of Purge Water	Turbid to clear
<b>GROUNDWATER SAMPLES</b>	
Number of Samples/Container Size	1 liter; 2 40-ml VOA's
Groundwater Temp/pH/Conductivity #1:	82.4/6.29/2700
Groundwater Temp/pH/Conductivity #2:	
Groundwater Temp/pH/Conductivity #3:	
Appearance of Groundwater Samples	Clear
COMMENTS (i.e., sample odor, well recharge time & percent, etc.)	
No odor; very good recharge.	

TD - Total Depth of Well  
DTW - Depth To Water



ALL ENVIRONMENTAL INC. -- GROUNDWATER MONITORING WELL FIELD SAMPLING FORM	
<b>Monitoring Well Number: MW-3</b>	
Project Name	Schoonbrood
Job Number	1243
Project Address	554 27th Street
	Oakland, CA
Date of Sampling	07/10/95
Name of Sampler	Dusty Roy
<b>MONITORING WELL DATA</b>	
Well Casing Diameter (2"/4"/6")	2"
Seal at Grade -- Type and Condition	Cement seal, good condition
Well Cap & Lock -- OK/Replace	Locking expanding, good condition
Elevation of Top of Casing	23.33
Depth of Well	20.00
Depth to Water	8.35
Water Elevation	14.98
Three Well Volumes (gallons)*	
2" casing: (TD - DTW)(0.16)(3)	2.4
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	17
Appearance of Purge Water	Turbid to clear
<b>GROUNDWATER SAMPLES</b>	
Number of Samples/Container Size	1 liter; 2 40-ml VOA's
Groundwater Temp/pH/Conductivity #1:	78.2/6.35/4900
Groundwater Temp/pH/Conductivity #2:	
Groundwater Temp/pH/Conductivity #3:	
Appearance of Groundwater Samples	Clear
COMMENTS (i.e., sample odor, well recharge time & percent, etc.)	
No odor; very good recharge.	

TD - Total Depth of Well  
DTW - Depth To Water

ENVIRONMENTAL  
SCIENCE CONSULTANTS

## OVEREXCAVATION OF CONTAMINATED SOIL REPORT

554 27th Street  
Oakland, CA 94612

S. 3-95

Prepared for:

Joan Schoonbrood  
PO Box 7442  
Menlo Park, CA 94025

and

Angela Barbagelata  
15 San Lorenzo Way  
San Francisco, CA 94127

Prepared by:

All Environmental, Inc.  
2641 Crow Canyon Road, Suite 5  
San Ramon, CA 94583

May 3, 1995



# ALL ENVIRONMENTAL, INC.

Environmental Engineering & Construction

ENVIRONMENTAL

50 JUN 15 PM 1:11

May 3, 1995  
Job No. 1200

Ms. Joan Schoonbrood  
PO Box 7442  
Menlo Park, CA 94025

**Subject: Overexcavation of contaminated soil at 554 27th Street, Oakland, CA 94612**

Dear Ms. Schoonbrood:

Enclosed are two copies of the Overexcavation of Contaminated Soil Report for the property located at 554 27th Street, Oakland, California. A proposal for the installation of three groundwater monitoring wells to determine possible impact on groundwater is forthcoming, in accordance with the requirements of the Alameda County Department of Environmental Health, Hazardous Materials Division.

If you have any questions or comments regarding the findings presented in this report, please call me at (510) 820-3224.

Sincerely,



Michael J. Killoran  
Geologist

Corporate Headquarters:

2641 Crow Canyon Rd., #5  
San Ramon, CA 94583  
(510) 820-3224

Los Angeles Office:

5031 Pacific Coast Hwy., #178  
Torrance, CA 90505  
(310) 328-8878

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APPENDIX B:	LABORATORY ANALYSES AND CHAIN OF CUSTODY DOCUMENTS
APPENDIX C:	NON-HAZARDOUS SPECIAL WASTE MANIFESTS

## **1.0 INTRODUCTION**

All Environmental Inc. (AEI) has prepared this final report to document the contaminated soil overexcavation performed at 554 27th street in Oakland, California (Figure 1: Site Location Map and Figure 2: Site Map). On January 18, 1995, AEI removed three gasoline tanks and one waste oil tank from the property.

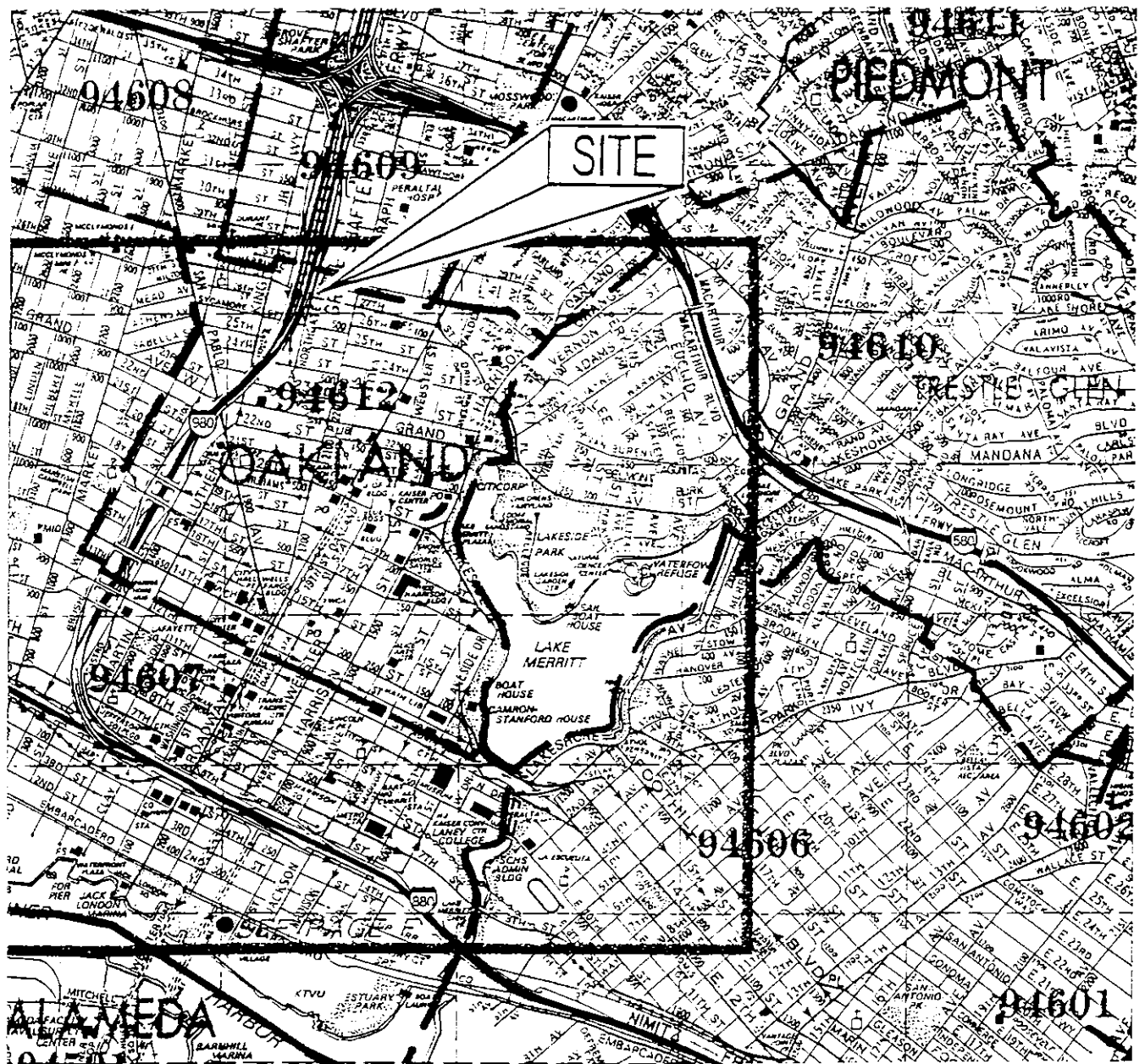
The excavation for the gasoline tanks was not contaminated with TPHg or BTEX based on analytical results of representative soil samples. The gasoline tank excavation was backfilled on February 7, 1995, with approximately 100 cubic yards of soil that had been removed from the gasoline tanks excavation and stockpiled on the site. . Soil sampling and other criteria indicated that the soil was suitable fill material. Clean, imported fill material was also used to backfill the gasoline tank excavation (Reference 1). A total of approximately 250 cubic yards was removed during the removal of the waste oil tank and waste oil tank overexcavation. This soil was deemed to be unsuitable as fill material based on analytical laboratory results, and was hauled on March 13, 1995 to Vasco Road Landfill, in Livermore, California.

## **2.0 EXCAVATION OF CONTAMINATED SOIL**

AEI personnel met at the site for overexcavation activities on February 8, 1995, under the supervision of Jennifer Eberle of ACHCSA. The original tank excavation was approximately 7 feet by 7 feet wide, and 9 feet deep. Following overexcavation on February 8, 1995, the final dimensions of the excavation were approximately 25 feet by 25 feet wide, by 9 feet deep. Approximately 250 cubic yards of soil were generated by the overexcavation activities, and stockpiled on site.

## **3.0 SAMPLING AND ANALYSES**

On February 8, 1995, AEI took four samples from the excavation sidewalls (OESWE, OESWN, OESWS, and OESWW), and the excavation floor (OEWO). Soil samples were collected by driving a 6-inch by 2-inch brass tube into the soil. The filled tube was then sealed with aluminum foil, plastic caps, and adhesive tape. Stockpiles were sampled by taking a set of four different soil samples at different depths and locations within each of the two stockpiles and compositing each set into one discrete sample at the laboratory (STKP 1-4 and STKP 5-8). Soil samples were collected under the guidance of Alameda County Health Care Services Agency Inspector Jennifer Eberle.



0 2200  
Scale, feet

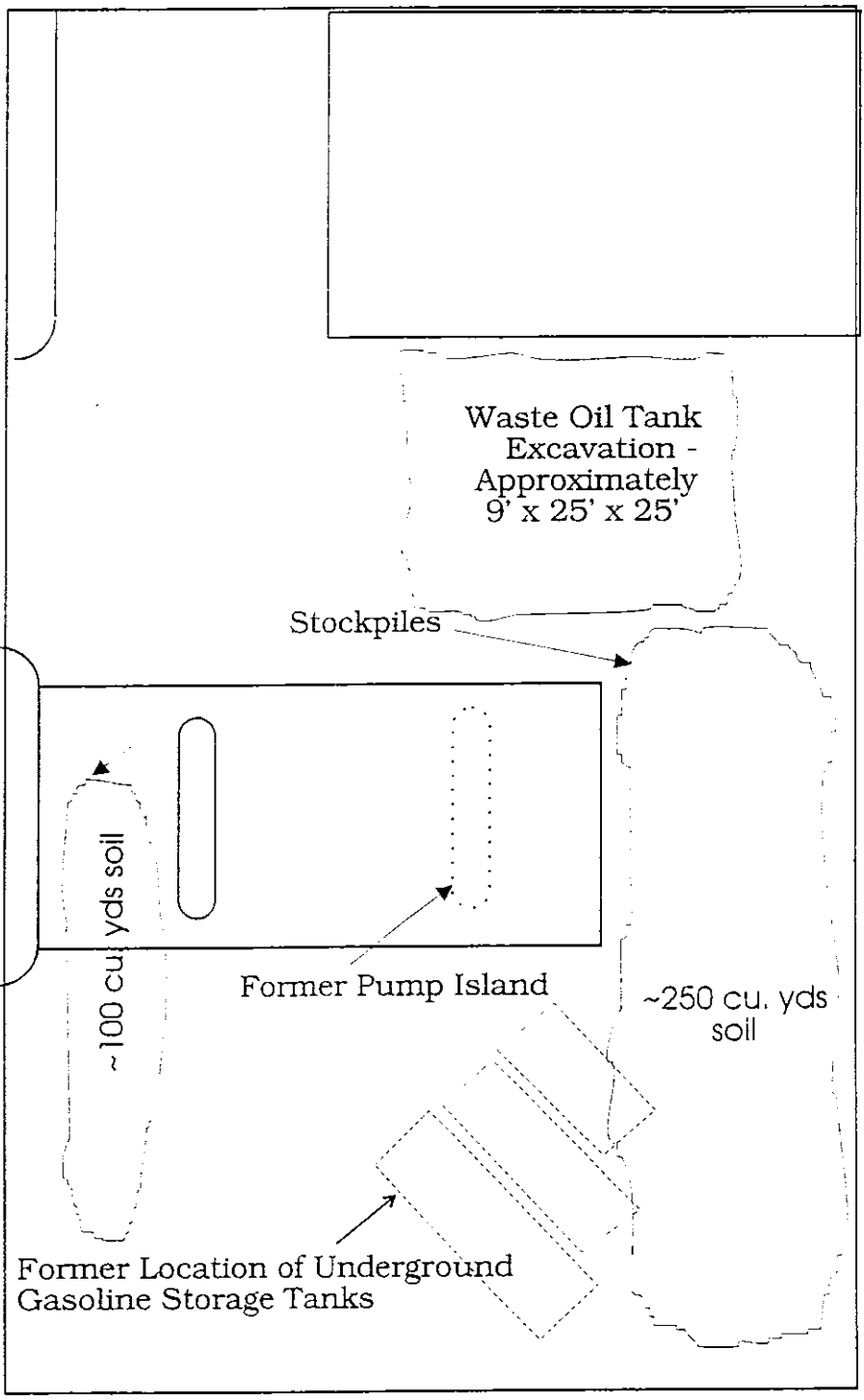
ALL ENVIRONMENTAL, INC. 2641 CROW CANYON ROAD, SAN RAMON, CA	
DRAWN BY:	REVISED BY:
DATE:	APPROVED BY:
SITE LOCATION MAP	
554 27th Street, Oakland	FIGURE 1

From Thomas Bro's. - 1993

On-Ramp to 980

27th Street

Sidewalk



Not To Scale

<b>ALL ENVIRONMENTAL, INC.</b>	
2641 CROW CANYON ROAD, SAN RAMON, CA	
DRAWN BY: MK	REVISED BY:
DATE: May, 1995	APPROVED BY:
<b>SITE PLAN</b>	
554 27th Street, Oakland	FIGURE 2

All samples were transported under chain of custody protocol to a California State Certified Laboratory, Priority Environmental Labs in Milpitas, California. Copies of the analytical laboratory results are enclosed in Appendix B. Figure 3 shows the sample locations. Analytical results are tabulated in the following tables (Tables 1 and 2: Soil Sample Results).

**TABLE 1: Soil Sample Results**

SAMPLE ID	TPHg (mg/Kg)	TPHd (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl-benzene (ug/Kg)	Xylenes (ug/Kg)	Total Oil & Grease (mg/Kg)
OESWE	ND	ND	ND	ND	ND	ND	ND
OESWN	ND	ND	ND	ND	ND	ND	ND
OESWS	ND	ND	ND	ND	ND	ND	ND
OESWW	ND	ND	ND	ND	ND	ND	ND
OEWO	120	420	59	50	32	140	6800
STKP 1-4	64	110	20	25	44	81	1300
STKP 5-8	23	220	11	6.2	17	53	1800
TSTKP 1	ND	71	ND	ND	ND	ND	23
TSTKP 2	ND	ND	ND	ND	ND	ND	ND
TSTKP 3	ND	ND	ND	ND	ND	ND	ND
TSTKP 4	ND	23	ND	ND	ND	ND	39

*data*

*Stock-piles*

*For gas tests*

ND Not detected at or above the Method Detection Limit  
 mg/Kg Milligrams per kilogram; parts per million.  
 ug/Kg Micrograms per kilogram; parts per billion.



**TABLE 2: Soil Sample Results**

SAMPLE ID	STLC CAM 17 Metals (mg/L)	Total Recoverable Hydrocarbons (mg/Kg)	VOC's Organic (ug/Kg)	SVOC's (ug/Kg)	Reactivity/ Corrosibility/ Reactivity
OESWE	----	----	----	----	----
OESWN	----	----	----	----	----
OESWS	----	----	----	----	----
OESWW	----	----	----	----	----
OEWO	----	----	----	----	----
STKP 1-4	----	2200	----	----	----
STKP 5-8	*	4200	**	***	No/pH 7.3/No
TSTKP 1	----	----	----	----	----
TSTKP 2	----	----	----	----	----
TSTKP 3	----	----	----	----	----
TSTKP 4	----	----	----	----	----

ND Not detected at or above the Method Detection Limit  
 mg/Kg Milligrams per kilogram; parts per million  
 ug/Kg Micrograms per kilogram; parts per billion  
 VOC's Volatile Organic Compounds using EPA Method 8240  
 SVOC's Semi-Volatile Organic Compounds using EPA Method 8270

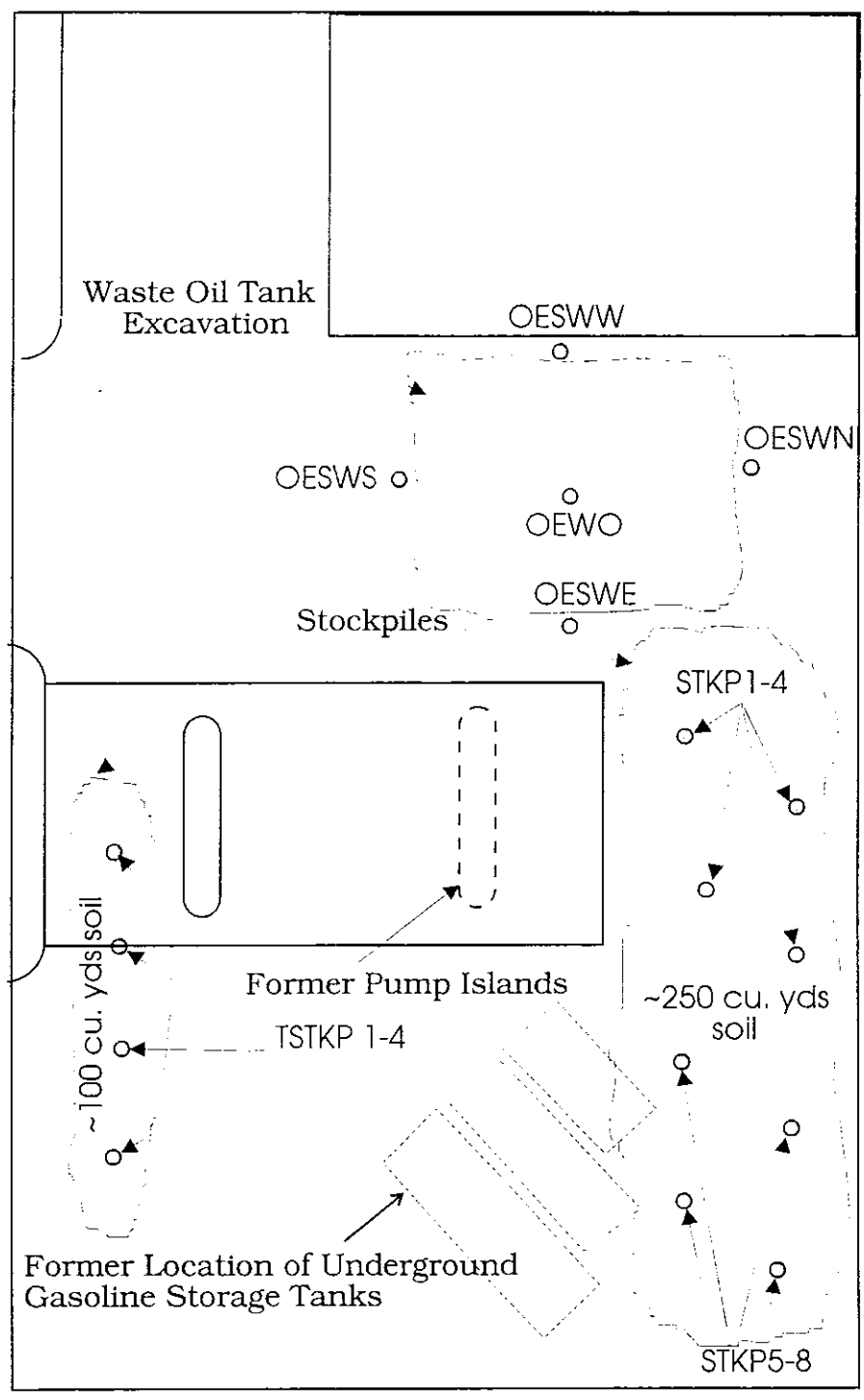
Reactivity/Corrosibility/Reactivity  
 Determined by Analyses Methods Title 22, CCR 66261.23, 66261.22,  
 and 66261.21

\* All analyses using EPA Method 6010 were ND, except for barium (1.0), cobalt (0.09), nickel (0.35), and zinc (0.10)  
 \*\* All analyses were ND, except 1,1,1-Trichloroethane (7.9)  
 \*\*\* All analyses were ND, except Naphthalene (4100)  
 ---- Not analyzed

On-Ramp to 980 →

27th Street

Sidewalk



○ Soil Sample Location



Not To Scale

<b>ALL ENVIRONMENTAL, INC.</b> 2641 CROW CANYON ROAD, SAN RAMON, CA	
DRAWN BY: MK	REVISED BY:
DATE: May, 1995	APPROVED BY:
<b>SAMPLE LOCATION PLAN</b>	
554 27th Street, Oakland	FIGURE 3

#### 4.0 CONTAMINATED SOIL DISPOSAL

Two stockpiles of soil were generated by the tank excavations, and overexcavation activities. Soil sample locations are shown in Figure 3, Sample Location Plan. Soil samples from the waste oil tank excavation and stockpile were analyzed for the following prior to disposal:

1. Total Petroleum Hydrocarbons as Gasoline (TPHg) (EPA method 5030/8015);
2. Total Petroleum Hydrocarbons as Diesel (TPHd) (EPA method 3550/8015);
3. BTEX - Benzene, Toluene, Ethylbenzene, Xylenes (EPA method 8020)
4. Total Oil and Grease (EPA Method 5520);

Stockpile soil samples STKP 5-8 were also analyzed for:

1. STLC CAM 17 Metals (EPA Method 1310/6010)
2. Total Recoverable Hydrocarbons (EPA Method 418.1)
3. Volatile Organics (EPA Method 8240); and
4. Semi-volatile Organics (EPA Method 8270);

Stockpile samples STKP 1-4 were also analyzed for:

1. Reactivity, Corrosivity, and Ignitability (Title 22, CCR 66261.21, 66261.22, and 66261.23; and
2. Total Recoverable Hydrocarbons (EPA Method 418.1)

Laboratory analyses of diesel overexcavation stockpile soil samples STKP 1-4 and STKP 5-8 indicated significant levels of TPHg, TPHd, TOG, and BTEX. On March 13, 1995, the 250 cubic yard soil stockpile generated from overexcavation activities was transported to the Vasco Road Landfill in Livermore, California for disposal. The landfill required an STLC CAM 17 metals, reactivity, EPA 8010 and 8270 analyses of the stockpiled soil prior to acceptance for disposal. Results of these analyses yielded acceptable levels for disposal. Laboratory analyses are found in Appendix B. Copies of all Non-Hazardous Waste Manifests are located in Appendix C. *etc*

#### 5.0 BACKFILLING

Analyses of representative soil samples of the 100 cubic yard stockpile (TSTKP 1, TSTKP 2, TSTKP 3, and TSTKP 4) did not indicate the presence of TPHg or BTEX contamination. This stockpile was generated from the excavation of the gasoline tanks, and was also used with clean imported fill to backfill the gasoline tank excavation on February 7, 1995.

*but had  
71 TPHd  
39 TOG*

The waste oil tank excavation was backfilled on February 16, 1995 with clean imported fill. The stockpiled soil above the base rock was added in 1 ft. lifts and compacted to 90% compaction. The site was resurfaced to match the existing surroundings.

## **6.0 DISCUSSION AND CONCLUSIONS**

All Environmental, Inc. excavated contaminated soil from the waste oil tank pit in order to reduce contamination to acceptable levels as verified by confirmation samples and analyses.

Contaminated soils were removed from all four walls of the excavation. Concentrations of TPHg, TPHd, BTEX, and TOG in samples obtained from the sidewalls of the excavation were all ND, in spite of some slight green soil discoloration that remained in the south wall. The soil sample obtained from the floor of the excavation, just above the groundwater table, indicated that significant amounts of TPHg, TPHd, TOG, and BTEX were present. This sample contained more than 100 ppm of TPHd, but the contaminated soil above the groundwater table was removed. All contaminated soil above the groundwater table is believed to contain concentrations of less than 100 ppm TPHg and TPHd.

Due to the level of contamination encountered in soil and the relatively shallow groundwater table, the Alameda County Department of Environmental Health (Hazardous Materials Division) requires additional investigation to determine possible impact on groundwater. Three wells are required to establish groundwater flow direction. One well must be placed downgradient from the contamination source and laterally within 10 feet of the excavation.

## **7.0 REPORT LIMITATIONS**

This report presents a summary of work completed by All Environmental, Inc., including observations and descriptions of site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide required information, but it cannot be assumed that they are representative of areas not sampled. All conclusions and/or recommendations are based on these analyses and observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

All Environmental, Inc. warrants that all services were performed in accordance with generally accepted practices, in the environmental engineering and construction field, which existed at the time and location of the work.

## **8.0 REFERENCES**

1. Underground Storage Tank Removal Final Report, February 22, 1995

## **APPENDIX A**

### **HEALTH & SAFETY PLAN**

HEALTH AND SAFETY PLAN

for  
554 27th Street  
Oakland, CA

Prepared for:

Joan Schoonbrood  
PO Box 7442  
Menlo Park, CA 94025





allowed to enter. All personnel arriving or departing the site should log in before entering the exclusion zone. All activities on site must be cleared through the Site Manager.

#### D. HAZARD EVALUATION

Potential chemical hazards include skin and eye contact or inhalation exposure to potentially toxic concentrations of hydrocarbon vapors. The potential toxic compounds that may exist at the site are listed below with descriptions of specific health effects of each. The list includes the primary potential toxic constituents that may be found at sites which previously handled petroleum hydrocarbons, including home heating diesel fuel.

##### 1. Benzene

- a. Colorless to light yellow, flammable liquid with an aromatic odor.
- b. Toxic hazard by **inhalation, adsorption, ingestion and skin and/or eye contact.**
- c. Exposure may irritate eyes, nose and respiratory system and may cause acute restlessness, convulsions, nausea, or depression. Benzene is carcinogenic.\*
- d. Permissible exposure level (PEL) for a time weighted average (TWA) over an eight hour period is 1.0 ppm.

##### 2. Toluene

- a. Colorless liquid with a sweet, pungent, benzene like odor.
- b. Toxic hazard by **inhalation, adsorption, ingestion and skin and/or eye contact.**
- c. Exposure may cause fatigue, weakness, confusion, euphoria, dizziness, headaches, dilated pupils, lacrimation, nervousness, insomnia, paresthesia, and dermatitis.
- d. Permissible exposure level for a time weighted average over an eight hour period is 100 ppm.

##### 3. Xylene

- a. Colorless liquid with an aromatic odor.
- b. Toxic hazard by **inhalation, adsorption, ingestion and skin and/or eye contact.**
- c. Exposure may irritate eyes nose and throat and may cause dizziness, excitement, drowsiness, incoordination, corneal vacuolization, anorexia, nausea, vomiting, and dermatitis.
- d. Permissible exposure level for a time weighted average over an eight hour period is 100 ppm.

##### 4. Ethylbenzene

- a. Colorless liquid with an aromatic odor.
- b. Toxic hazard by **inhalation, ingestion, and skin and/or eye contact.** Ethylbenzene is carcinogenic.\*
- c. Exposure may irritate eyes and mucous membrane and may cause headaches, dermatitis, narcosis and loss of consciousness.
- d. Permissible exposure level for a time weighted average over an eight hour period is 100 ppm.

5. Lead

- a. A heavy ductile soft grey metal.
- b. Toxic hazard by **inhalation, ingestion, and skin and/or eye contact.**
- c. Exposure may cause weakness, nausea, lassitude, diarrhea, insomnia, anorexia, inflamed mucous membranes and abdominal pains. Lead is carcinogenic.\*
- d. Permissible exposure level for a time weighted average over an eight hour period is .05 ppb (in vapor).

6. Diesel

- a. Colorless to dark brown, combustible liquid with an aromatic odor
- b. Toxic hazard by **inhalation, ingestion, skin and/or eye contact.**
- c. Inhalation of vapors may depress the central nervous system, increasing reaction times, and decreasing pulse rate and blood pressure. Skin irritant.
- d. Occupational exposure limit 5.0 ppm (in vapor).

7. Gasoline

- a. Colorless liquid with a strong aromatic odor. Highly volatile and extremely flammable.
- b. Toxic hazard by **inhalation, adsorption, ingestion, and skin and/or eye contact.**
- c. Inhalation of vapors can cause depression of the central nervous system with symptoms such as headache, dizziness, nausea, and loss of coordination. Skin contact can cause defatting of the skin, skin irritation, and dermatitis. Benzene is a major constituent of gasoline.
- d. Permissible exposure level for a time weighted average over an eight hour period is 300 ppm.

8. Waste Oil

- a. Toxic hazard by **ingestion** and possibly **inhalation.**
- b. Prolonged contact may cause skin irritation and dermatitis. Waste oil may be carcinogenic.\*
- c. Waste oil may contain metals or toxic organics from thermal breakdown of the oil. In some cases, chlorinated solvents may be present.
- d. Permissible exposure level for a time weighted average over an eight hour period is 5 ppm (in vapor).

\* Known to the State of California to cause cancer.

Dusty Roy has been designated to coordinate access control and security on site. All work will strictly follow OSHA guidelines. A safe perimeter has been established at a three foot radius surrounding the site. These boundaries are identified by yellow caution tape and orange safety cones. Personnel shall maintain the maximum distance from the excavation while performing their duties. Additional hazards on site include heavy equipment and overhead lifting equipment. Only 40-hour trained personnel will operate equipment or perform any duty associated with this project.

A FIRST AID KIT AND A 40 POUND BC FIRE EXTINGUISHER WILL BE AVAILABLE ON SITE.

EMERGENCY SERVICES ARE AVAILABLE BY DIALING 911 ON THE TELEPHONE LOCATED IN THE SITE MANAGER'S VEHICLE. THIS VEHICLE WILL BE ON SITE AT ALL TIMES.

#### E. PERSONAL PROTECTIVE CLOTHING

Based on evaluation of potential hazards, level "D" protective clothing has been designated as the appropriate protection for this project. The level of protective clothing will be upgraded if the organic vapor levels in the operator's breathing zone exceeds 5 ppm above background levels continuously for more than five minutes, or if any single reading exceeds 25 ppm. If this occurs then level C protection will be used. If the organic concentration in the operator's breathing zone exceed's 200 ppm for 5 minutes and/or the organic vapor concentration two feet above the excavation exceeds 1,000 ppm or 10% of the lower explosive limit, then the equipment will be shut down and the site evacuated. If organic vapor concentrations exceed 200 ppm and work continues then level B protection will be required.

"EPA Standard Operating Safety Guidelines" defines the levels of protective clothing as follows:

##### LEVEL A:

Fully encapsulating suit / SCBA / Hard hat / Steel toe boots / Safety gloves.

##### LEVEL B:

Splash resistant suit / SCBA / Hard Hat / Steel toe boots / Safety gloves.

##### LEVEL C:

Half face respirator / Hard hat / Safety glasses / Steel toe boots / Coveralls / Gloves.

##### LEVEL D:

Coveralls / Hard hat / Safety Glasses / Steel toe boots / Gloves.

If air purifying respirators are authorized, organic vapor w-filter is the appropriate canister for use with the involved substances and concentrations. A competent individual has determined that all criteria for using this type of respiratory protection have been met.

15 ppm

NO CHANGES TO THE SPECIFIED LEVELS OF PROTECTION SHALL BE MADE WITHOUT THE APPROVAL OF THE COMPANY SAFETY OFFICER, G. W. ROY.

F. MONITORING INSTRUMENTS

The following environmental monitoring instruments shall be used on site at specified intervals.

Lower Explosive Limit (LEL) Meter that will also check the tank for Oxygen levels will be used to check the tank for removal and transportation.

G. EMERGENCY HOSPITAL

The closest hospital with an emergency room is:

**PERALTA HOSPITAL**

**(510) 451-4900**

DIRECTIONS FROM THE JOB SITE:

EXIT JOBSITE AND GO:

Right on 27th, make U-turn;  
Left on Telegraph;  
Right on 30th Street;  
Hospital is located on the left.

## **APPENDIX B**

# **LABORATORY ANALYSES AND CHAIN OF CUSTODY DOCUMENTS**



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

February 11, 1995

PEL # 9502027

ALL ENVIRONMENTAL, INC.

Attn: Charles Kissick

Re: Eleven soil samples for Gasoline/BTEX, Diesel, and Oil & Grease analyses.

Project name: Schoonbrood

Project number: ~~1174~~  
1200

Date sampled: Feb 08, 1995

Date submitted: Feb 09, 1995

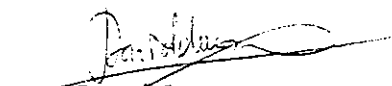
Date extracted: Feb 09-11, 1995

Date analyzed: Feb 09-11, 1995

## RESULTS:

SAMPLE I.D.	Gasoline (mg/Kg)	Diesel (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylene (ug/Kg)	Oil & Grease (mg/Kg)
OESWE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
OESWN	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
OESWS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
OESWW	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
OEWO	120	420	59	50	32	140	6800
STKP 1-4*	64	110	20	25	44	81	1300
STKP 5-8*	23	220	11	6.2	17	53	1800
TSTKP 1	N.D.	71	N.D.	N.D.	N.D.	N.D.	23
TSTKP 2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
TSTKP 3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
TSTKP 4	N.D.	23	N.D.	N.D.	N.D.	N.D.	39
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked							
Recovery	99.8%	101.2%	100.4%	80.3%	99.2%	100.4%	---
Detection							
limit	1.0	1.0	5.0	5.0	5.0	5.0	10
Method of	5030 /	3550 /					5520
Analysis	8015	8015	8020	8020	8020	8020	D & F

\*Composited soil samples.

  
David Duong

Laboratory Director



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

February 28, 1995

PEL # 9502027

ALL ENVIRONMENTAL, INC.

Attn: Charles Kissick

Project name: Schoolbrood

Project number: ~~1174~~ \ L00

Analysis : STLC Cam 17 Metals

Sample I.D.: STKP 5-8

Date Sampled: Feb 08, 1995

Date Submitted: Feb 09, 1995

Date Analyzed: Feb 15-27, 1995

Method of Analysis: EPA 1310 / 6010

CODE	METAL	CONCENTRATION (mg/L)	DETECTION LIMIT (mg/L)
Ag	Silver	N.D.	0.05
As	Arsenic	N.D.	0.01
Ba	Barium	1.0	0.05
Be	Beryllium	N.D.	0.01
Cd	Cadmium	N.D.	0.01
Co	Cobalt	0.09	0.05
Cr	Chromium	N.D.	0.05
Cu	Copper	N.D.	0.05
Hg	Mercury	N.D.	0.002
Mo	Molybdenum	N.D.	0.05
Ni	Nickel	0.35	0.05
Pb	Lead	N.D.	0.10
Sb	Antimony	N.D.	0.10
Se	Selenium	N.D.	0.01
Tl	Thallium	N.D.	0.20
V	Vanadium	N.D.	0.05
Zn	Zinc	0.10	0.05

David Duong  
Laboratory Director



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

February 16, 1995

PEL # 9502027

ALL ENVIRONMENTAL, INC.

Attn: Charles Kissick  
Re: One composited soil sample for RCI analysis.


Project name: Schoonbrood  
Project number: 1174

Date sampled: Feb 08, 1995  
Date extracted: Feb 15-16, 1995

Date submitted: Feb 09, 1995  
Date analyzed: Feb 15-16, 1995

## RESULTS:

SAMPLE I.D.	REACTIVITY	CORROSIVITY	IGNITABILITY
STKP (5-8)	NO	pH 7.3	NO
Blank	NO	pH 7.0	NO
Method of Analysis	Title 22, CCR 66261.23	Title 22, CCR 66261.22	Title 22, CCR 66261.21

  
David Duong  
Laboratory Director





# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

February 16, 1995

PEL # 9502027

ALL ENVIRONMENTAL, INC.  
Project name: Schoonbrood  
Sample I.D.: STKP (5-8)

Attn: Charles Kissick  
Project number: 1174

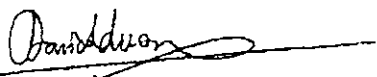
Date Sampled: Feb 08, 1995  
Date Analyzed: Feb 15-16, 1995

Date Submitted: Feb 09, 1995

Method of Analysis: EPA 8240

Detection limit: 5.0 ug/Kg

COMPOUND NAME	CONCENTRATION ( ug/Kg )	SPIKE RECOVERY ( % )
Chloromethane	N.D.	-----
Vinyl Chloride	N.D.	-----
Bromomethane	N.D.	-----
Chloroethane	N.D.	85.5
Trichlorofluoromethane	N.D.	-----
1,1-Dichloroethene	N.D.	-----
Methylene Chloride	N.D.	-----
Trans-1,2-Dichloroethene	N.D.	-----
1,1-Dichloroethane	N.D.	-----
Chloroform	N.D.	88.1
1,1,1-Trichloroethane	7.9	-----
Carbon Tetrachloride	N.D.	-----
1,2-Dichloroethane	N.D.	-----
Trichloroethene	N.D.	86.6
1,2-Dichloropropane	N.D.	-----
Bromodichloromethane	N.D.	-----
2-Chloroethylvinylether	N.D.	-----
Trans-1,3-Dichloropropene	N.D.	-----
Cis-1,3-Dichloropropene	N.D.	-----
1,1,2-Trichloroethane	N.D.	-----
Tetrachloroethene	N.D.	89.5
Benzene	N.D.	-----
Dibromochloromethane	N.D.	-----
Toluene	N.D.	-----
Chlorobenzene	N.D.	90.8
Ethylbenzene	N.D.	-----
Bromoform	N.D.	-----
1,1,2,2-Tetrachloroethane	N.D.	-----
Dichlorodifluoromethane	N.D.	-----
Freon 113	N.D.	-----
M & P-Xylenes	N.D.	-----
O-Xylene	N.D.	-----
1,3-Dichlorobenzene	N.D.	-----
1,4-Dichlorobenzene	N.D.	-----
1,2-Dichlorobenzene	N.D.	-----

  
David Duong  
Laboratory Director



PRIORITY ENVIRONMENTAL LABS  
Attn: DAVID DUONG

Project 9502027  
Reported on February 28, 1995

EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
B0654-01	STKP 5-8	Soil	10.0	-

R E S U L T S O F A N A L Y S I S

Compound	80654-01 Conc. RL ug/Kg
bis(2-chloroethyl) ether	ND 3000
aniline	ND 3000
phenol	ND 3000
2-chlorophenol	ND 3000
1,3-dichlorobenzene	ND 3000
1,4-dichlorobenzene	ND 3000
1,2-dichlorobenzene	ND 3000
benzyl alcohol	ND 3000
bis-(2-chloroisopropyl) ether	ND 3000
2-methylphenol	ND 3000
hexachloroethane	ND 3000
N-nitroso-di-n-propylamine	ND 3000
4-methylphenol	ND 3000
nitrobenzene	ND 3000
isophorone	ND 3000
2-nitrophenol	ND 3000
2,4-dimethylphenol	ND 3000
bis(2-chloroethoxy)methane	ND 3000
2,4-dichlorophenol	ND 3000
1,2,4-trichlorobenzene	ND 3000
naphthalene	4100 3000
benzoic acid	ND 3000
4-chloroaniline	ND 3000
hexachlorobutadiene	ND 3000
2-chloro-3-methylphenol	ND 3000
2-methyl-naphthalene	ND 3000
hexachlorocyclopentadiene	ND 3000
2,4,6-trichlorophenol	ND 3000
2,4,5-trichlorophenol	ND 3000
2-chloronaphthalene	ND 3000
4-nitroaniline	ND 3000
benzophenone	ND 3000
dimethylphthalate	ND 3000



# Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

PRIORITY ENVIRONMENTAL LABS

Attn: DAVID DUONG

Project 9502027

Reported on February 28, 1995

EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

LAB ID	Sample ID	Matrix	Dil. Factor	Moisture
80654-01	STKP 5-8	Soil	10.0	-

## RESULTS OF ANALYSIS

Compound  
 80654-01  
 Conc. RL  
 ug/Kg

2,6-dinitrotoluene	ND	3000
Acenaphthene	ND	3000
3-nitroaniline	ND	3000
2,4-dinitrophenol	ND	3000
dibenzofuran	ND	3000
2,4-dinitrotoluene	ND	3000
4-nitrophenol	ND	3000
fluorene	ND	3000
4-chlorophenyl-phenylether	ND	3000
diethylphthlate	ND	3000
nitroaniline	ND	3000
4,6-dinitro-2-methylphenol	ND	3000
n-nitrosodiphenylamine	ND	3000
4-bromo-phenyl-phenylether	ND	3000
hexachlorobenzene	ND	3000
pentachlorophenol	ND	3000
phenanthrene	ND	3000
anthracene	ND	3000
di-n-butylphthlate	ND	3000
fluoranthene	ND	3000
benzidine	ND	3000
pyrene	ND	3000
butylbenzylphthlate	ND	3000
1,3'-dichlorobenzidine	ND	3000
benzo(a)Anthracene	ND	3000
chrysene	ND	3000
bis(2-ethylhexyl)phthalate	ND	3000
1-n-octylphthalate	ND	3000
benzo(b,k)fluoranthene	ND	3000
Benzo(a)Pyrene	ND	3000
indeno(1,2,3)Pyrene	ND	3000
benzo[a,h]anthracene	ND	3000
Benzo[g,h,i]anthracene	ND	3000

Page 3 of 8

Certified Laboratories

825 Arnold Dr., Suite 114  
 Martinez, California 94553  
 (510) 229-1517 / fax (510) 229 1526

1555 Burke St., Unit 1  
 San Francisco, California 94124  
 (415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24  
 Seattle, Washington 98108  
 (206) 763-2992 / fax (206) 763-8429





# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

February 17, 1995

PEL # 9502027

ALL ENVIRONMENTAL, INC.

Attn: Charles Kissick

Re: Two composited soil samples for total Recoverable Hydrocarbons analysis.

Project name: Schoonbrood

Project number: ~~1174~~ 1260

Date sampled: Feb 08, 1995

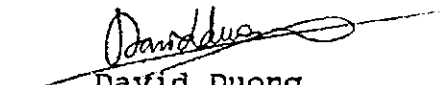
Date submitted: Feb 09, 1995

Date extracted: Feb 15-16, 1995

Date analyzed: Feb 15-16, 1995

## RESULTS:

SAMPLE I.D.	Total Recoverable Hydrocarbons (mg/Kg)
STKP 1-4	2200
STKP 5-8	4200
Blank	N.D.
Detection limit	100
Method of Analysis	418.1

  
David Duong  
Laboratory Director

P. 08  
408+946+9663  
MAR-01-95 WED 02:35 PM PRIORITY LABS

**PRIORITY ENVIRONMENTAL, INC.**  
2641 Crow Canyon Road, Ste. 5  
San Ramon, CA 94583  
(510) 820-3224 FAX: (510) 838-2687

PEL # 9502027

INV # 25654X

# Chain of Custody

DATE: 2/9/95 PAGE: 1 OF: 1

AEI PROJECT MANAGER: Charlie Kissick  
PROJECT NAME: Shounbrook  
PROJECT NUMBER: 1174  
SIGNATURE: Dusty Roy  
TOTAL # OF CONTAINERS: 17  
RECD. GOOD COND./COLD: Yes

## ANALYSIS REQUEST

SAMPLE I.D.	DATE	TIME	MATRIX	ANALYSIS REQUEST											NUMBER OF CONTAINERS											
				TPH-Castrolite (EPA 900.0015)	TPH-Castrolite (EPA 900.0015) w/ BTX (EPA 802.8020)	TPH-Diesel (EPA 3510.1550.0015)	PURGEABLE AROMATICS BTX (EPA 802.8020)	TOTAL OIL & GREASE (EPA 5520.2007)	TOTAL LEAD (AA) (EPA 7430)	VOLATILE ORGANIC COMPOUNDS (EPA 8260)	LOTT Metals (EPA 726.7100, 7430, 7603, 7607)	STEC CUM 17 (EPA 1310/8010)	PCB ACTIVITY CORRELIVITY (EPA 1310/8010)	8240		8270	418.1									
STKP 1-4	2/8/95		S		X	X		X																		
STKP 5-8	"		S		X	X		X																		
TSTKP 1	"		S		X	X		X					X													
TSTKP 2	"		S		X	X		X																		
TSTKP 3	"		S		X	X		X																		
TSTKP 4	"		S		X	X		X																		
OEW0	"		S		X	X		X																		
OESWS	"		S		X	X		X																		
OESWN	"		S		X	X		X																		
OESWV	"		S		X	X		X																		
OESWE	"		S		X	X		X																		

Per. Mr. Kissick 2/15/95  
15:15 PM

ANALYTICAL LAB: PRIORITY ENVIRONMENTAL INC.  
ADDRESS: 1764 HOWLET COURT  
MILLICAS CA 95035  
PHONE: (415) 946-9663 FAX: (415) 946-9663

INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: 1  
Signature: Dusty Roy  
Printed Name: DUSTY ROY  
Company: AEI  
Time: 8:30 Date: 2/9/95

RECEIVED BY: 1  
Signature: David Ducng  
Printed Name: DAVID DUCNG  
Company: PEL  
Time: 8:10 AM Date: 02/09/95

RELINQUISHED BY: 2  
Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Company: \_\_\_\_\_  
Time: \_\_\_\_\_ Date: \_\_\_\_\_

RECEIVED BY: 2  
Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Company: \_\_\_\_\_  
Time: \_\_\_\_\_ Date: \_\_\_\_\_

**APPENDIX C**

**NON-HAZARDOUS SPECIAL WASTE MANIFESTS**

**NON-HAZARDOUS SPECIAL WASTE MANIFEST**

**GENERATOR**

Generator Name John S. ... Generating Location \_\_\_\_\_  
 Address PO Box 7442 Address 554 27 ...  
MENLO PARK CA 94025 DANFORD CA 94012

Phone No. 415-253-0300 Phone No. \_\_\_\_\_

BFI Waste Code	<u>CA</u>	<u>405</u>	<u>031075</u>	<u>039715</u>	Containers	Type
	Description of Waste			Quantity	Units	No. Type
	<u>CONTAMINATED SOIL</u>			<u>15</u>	<u>1</u>	<u>017</u>

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name Dusty Roy Signature Dusty Roy Shipment Date 0312-5

**TRANSPORTER**

Truck No. \_\_\_\_\_ Phone No. 510-487-3347  
 Transporter Name DELLAFOSSE TRUCKING Driver Name (Print) \_\_\_\_\_  
 Address PO Box 1622 Vehicle License No./State \_\_\_\_\_  
UNION CITY CA 94587 Vehicle Certification \_\_\_\_\_

*234 yd<sup>3</sup> disposed doc.*

I hereby certify that the above named material was picked up at the generator site listed above. I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature \_\_\_\_\_ Shipment Date \_\_\_\_\_ Driver Signature \_\_\_\_\_ Delivery Date \_\_\_\_\_

**DESTINATION**

Site Name VASCO ROAD LANDFILL Phone No. 510-447-0491  
 Address 4001 N VASCO RD LIVERMORE CA 94550

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent \_\_\_\_\_ Signature [Signature] Receipt Date 0312-5

PASS CODE \_\_\_\_\_



**NON-HAZARDOUS SPECIAL WASTE MANIFEST**

**GENERATOR**

Generator Name John Moonbird / Angela Parkhouse Generating Location \_\_\_\_\_

Address P.O. Box 7442 Address 554 27th St  
MENLO PARK Ca. 94025 Oakland Ca 94612

Phone No. 415-2330310 Phone No. \_\_\_\_\_

BFI Waste Code Ca 403031095 229715 Containers \_\_\_\_\_  
Description of Waste \_\_\_\_\_ Type \_\_\_\_\_

Description of Waste	Quantity		Units	Containers	
	No.	Type	No.	Type	
<u>CONTAMINATED SOIL</u>	<u>18</u>	<u>Y</u>	<u>01</u>	<u>T</u>	

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name Dustin R... Signature [Signature] Shipment Date 031395

**TRANSPORTER**

Truck No. \_\_\_\_\_ Phone No. (510) 487-3397

Transporter Name DELLAFOSSE Trucking Driver Name (Print) \_\_\_\_\_

Address P.O. Box 1622 Vehicle License No./State \_\_\_\_\_  
UNION CITY Ca 94587

Vehicle Certification \_\_\_\_\_

I hereby certify that the above named material was picked up at the generator site listed above. I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature \_\_\_\_\_ Shipment Date \_\_\_\_\_ Driver Signature [Signature] Delivery Date \_\_\_\_\_

**DESTINATION**

Site Name VASCO Road LAND FILL Phone No. 510-4470491

Address 4001 N. VASCO RD. LIVERMORE Ca 94550

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent \_\_\_\_\_ Signature [Signature] Receipt Date 031395

PASS CODE \_\_\_\_\_

**NON-HAZARDOUS SPECIAL WASTE MANIFEST**

**GENERATOR**

Generator Name Jocyn Schenbrood / Angela BARBUSELATA Generating Location \_\_\_\_\_  
 Address P.O. BOX 7442 Address 554 27th ST.  
MENLO PARK Ca 94025 OAKLAND Ca 94612  
 Phone No. 415-2330310 Phone No. \_\_\_\_\_  
 BFI Waste Code CA 405 031095 229715 Containers \_\_\_\_\_

Description of Waste	Quantity	Units	Containers		Type
			No.	Type	
<u>CONTAMINATED SOIL</u>	<u>18</u>	<u>Y</u>	<u>01</u>	<u>T</u>	

- Type
- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name DUSTY ROY Signature Dusty Roy Shipment Date 031395

**TRANSPORTER**

Truck No. 5316 Phone No. (510) 487-3397  
 Transporter Name DELLA FOSSE TRUCKING Driver Name (Print) \_\_\_\_\_  
 Address P.O. BOX 1622 Vehicle License No./State 9002  
UNION CITY Ca 94507 Vehicle Certification \_\_\_\_\_

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature [Signature] Shipment Date 031395 Driver Signature [Signature] Delivery Date 031395

**DESTINATION**

Site Name VASCO ROAD LANDFILL Phone No. 510-4470491  
 Address 4001 N. VASCO RD. LIVERMORE CA 94550

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent \_\_\_\_\_ Signature [Signature] Receipt Date 031395

PASS CODE \_\_\_\_\_

**NON-HAZARDOUS SPECIAL WASTE MANIFEST**

**GENERATOR**

Generator Name JOHN SCHROEDER / ANGELA ARBASOLA Generating Location \_\_\_\_\_  
 Address P.O. BOX 7442 Address 554 27th ST.  
MENLO PARK CA 94035 OAKLAND CA 94612  
 Phone No. 415-233-0310 Phone No. \_\_\_\_\_  
 BFI Waste Code Ca 405 031095 229715 Containers \_\_\_\_\_

Description of Waste	Quantity	Units	No.	Type
<u>CONTAMINATED SOIL</u>	<u>18</u>	<u>Y</u>	<u>01</u>	<u>T</u>

- Type  
 D - Drum  
 C - Carton  
 B - Bag  
 T - Truck  
 P - Pounds  
 Y - Yards  
 O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name DUSTY ROY Signature Dusty Roy Shipment Date 031395

**TRANSPORTER**

Truck No. 0547 Phone No. (510) 487-3397  
 Transporter Name DELLA FOSSE TRUCKING Driver Name (Print) STEVE COFFIN  
 Address P.O. BOX 1022 Vehicle License No./State 7C32060  
UNION CITY CA 94587 Vehicle Certification \_\_\_\_\_

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature [Signature] Shipment Date 031395 Driver Signature [Signature] Delivery Date 031395

**DESTINATION**

Site Name VASCO ROAD LAND FILL Phone No. 510-447-0491  
 Address 4701 N. VASCO RD. L. VALMORE CA 94550

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent \_\_\_\_\_ Signature [Signature] Receipt Date 031395

PASS CODE \_\_\_\_\_



**NON-HAZARDOUS SPECIAL WASTE MANIFEST**

**GENERATOR**

Generator Name Joan ~~At~~ Schoenbroed / Angela Barhage <sup>CAIA</sup> Generating Location \_\_\_\_\_

Address P.O. Box 7442 Address 554 27th St.  
MENLO PARK Ca 94025 OAKLAND Ca 94612

Phone No. 415-2330310 Phone No. \_\_\_\_\_

BFI Waste Code Ca 405 031095 229715 Containers \_\_\_\_\_  
Description of Waste \_\_\_\_\_ Quantity \_\_\_\_\_ Units \_\_\_\_\_ No. \_\_\_\_\_ Type \_\_\_\_\_

Description of Waste	Quantity	Units	No.	Type
<u>CONTAMINATED SOIL</u>	<u>18</u>	<u>Y</u>	<u>01</u>	<u>T</u>

- Type  
D - Drum  
C - Carton  
B - Bag  
T - Truck  
P - Pounds  
Y - Yards  
O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Dustin Roy Generator Authorized Agent Name Signature Dustin Roy Shipment Date 031395

**TRANSPORTER**

Truck No. 586 Phone No. (510) 427-3397  
Transporter Name DELLAFOSSE TRUCKING Driver Name (Print) Jim Gendille  
Address P.O. Box 1622 Vehicle License No./State 4413045 Calif.  
UNION CITY Ca 94587 Vehicle Certification H13621

I hereby certify that the above named material was picked up at the generator site listed above. I hereby certify that the above named material was delivered without incident to the destination listed below.

[Signature] Driver Signature Shipment Date 031395 [Signature] Driver Signature Delivery Date 031395

**DESTINATION**

Site Name VASCO Road LANDFILL Phone No. 510-4470491  
Address 4001 N. VASCO Rd. LIVERMORE Ca 94550

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent \_\_\_\_\_ Signature [Signature] Receipt Date 031395

PASS CODE \_\_\_\_\_

**NON-HAZARDOUS SPECIAL WASTE MANIFEST**

**GENERATOR**

Generator Name Jean Schoonbrund / Angela Barbagelata Generating Location \_\_\_\_\_

Address P.O. Box 7442 Address 554 27th St.  
MENLO PARK CA 94025 Oakland CA 94612

Phone No. 415-233-310 Phone No. \_\_\_\_\_

BFI Waste Code C4 405 031095 279715 Containers \_\_\_\_\_  
Description of Waste \_\_\_\_\_ Quantity \_\_\_\_\_ Units \_\_\_\_\_ No. \_\_\_\_\_ Type \_\_\_\_\_

Description of Waste	Quantity	Units	No.	Type
<u>PONTIAC WATER SOIL</u>	<u>18</u>	<u>Y</u>	<u>51</u>	<u>T</u>

- Type
- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name D. STY ROY Signature [Signature] Shipment Date 031395

**TRANSPORTER**

Truck No. 15 Phone No. (510) 427-3397

Transporter Name DELLA FOSSE Trucking Driver Name (Print) [Name]

Address P.O. Box 1622 Vehicle License No./State 741111

UNION CITY CA 94587 Vehicle Certification \_\_\_\_\_

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature [Signature] Shipment Date 031395 Driver Signature [Signature] Delivery Date 031395

**DESTINATION**

Site Name VASCO ROAD LANDFILL Phone No. 510-447-0491

Address 4001 N VASCO RD Livermore CA 94550

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent \_\_\_\_\_ Signature [Signature] Receipt Date 031395

PASS CODE \_\_\_\_\_

**NON-HAZARDOUS SPECIAL WASTE MANIFEST**

**GENERATOR**

Generator Name JOAN SCHROEDER/ANGELA BARBOUR-1024 Generating Location \_\_\_\_\_

Address 11509 7442 Address 554 22 ST

Merida Park N. 9410 ST Summit, WA 98148

Phone No. 415-2330310 Phone No. \_\_\_\_\_

JFI Waste Code 405 C31095 229715 Containers 01 Type T

Description of Waste	Quantity	Units	No.	Type
<u>TERMINATED SOIL</u>	<u>13</u>	<u>Y</u>	<u>01</u>	<u>T</u>

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name DUSTY ROY Signature \_\_\_\_\_ Shipment Date \_\_\_\_\_

**TRANSPORTER**

Truck No. 7A Phone No. (510) 487-3377

Transporter Name DELLAFOSSE TRUCKING Driver Name (Print) \_\_\_\_\_

Address P.O. BOX 1677 Vehicle License No./State \_\_\_\_\_

UNION CITY CA 94507 Vehicle Certification \_\_\_\_\_

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature \_\_\_\_\_ Shipment Date \_\_\_\_\_ Driver Signature \_\_\_\_\_ Delivery Date \_\_\_\_\_

**DESTINATION**

Site Name VASCO ROAD LANDFILL Phone No. 510-4470491

Address 4001 N. VASCO RD. LIVERMORE CA 94550

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent \_\_\_\_\_ Signature \_\_\_\_\_ Receipt Date 3/3/91

PASS CODE \_\_\_\_\_

**NON-HAZARDOUS SPECIAL WASTE MANIFEST**

**GENERATOR**

Generator Name Jean Schoenbroed/Angele Barbagelata Generating Location \_\_\_\_\_

Address P.O. Box 7442 Address 554 27th St.

Menlo Park Ca 94025 Oakland Ca 94612

Phone No. 415-333-0310 Phone No. \_\_\_\_\_

BFI Waste Code Ca 405 031095 229715 Containers \_\_\_\_\_

Description of Waste	Quantity	Units	Containers		Type
			No.	Type	
Contaminated soil	13	Y	01	T	

- Type
- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state-law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name Rosie Doy Signature \_\_\_\_\_ Shipment Date \_\_\_\_\_

**TRANSPORTER**

Truck No. \_\_\_\_\_ Phone No. (510) 467-3392

Transporter Name DELLAFOSSE Trucking Driver Name (Print) David P...

Address P.O. Box 1672 Vehicle License No./State 94587

Union City Ca 94587 Vehicle Certification ...

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature \_\_\_\_\_ Shipment Date \_\_\_\_\_ Driver Signature \_\_\_\_\_ Delivery Date \_\_\_\_\_

**DESTINATION**

Site Name Vasco Road Landfill Phone No. 510-447-0491

Address 4001 N. Vasco Rd. Livermore Ca 94550

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent \_\_\_\_\_ Signature \_\_\_\_\_ Receipt Date \_\_\_\_\_

PASS CODE \_\_\_\_\_



**NON-HAZARDOUS SPECIAL WASTE MANIFEST**

**GENERATOR**

Generator Name Jean Schoenbrod / Angela Barbus Generating Location \_\_\_\_\_  
 Address PO BOX 7442 Address 554 37th St  
Menlo Park 94025 Oakland CA 94612  
 Phone No. 415-2330310 Phone No. \_\_\_\_\_  
 BFI Waste Code Ca 405 031095 229715 Containers \_\_\_\_\_  
 Description of Waste \_\_\_\_\_ Quantity Units No. Type

PONTIAC MIXED SOIL

Quantity	Units	No.	Type
<u>18</u>	<u>V</u>	<u>01</u>	<u>T</u>

- Type  
 D - Drum  
 C - Carton  
 B - Bag  
 T - Truck  
 P - Pounds  
 Y - Yards  
 O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

DUSTY ROY \_\_\_\_\_  
 Generator Authorized Agent Name Signature Shipment Date \_\_\_\_\_

**TRANSPORTER**

Truck No. \_\_\_\_\_ Phone No. (510) 477-3397  
 Transporter Name DELLAFOSSE TRUCKING Driver Name (Print) \_\_\_\_\_  
 Address PO BOX 6072 Vehicle License No./State 52000  
UNION CITY CA 94587 Vehicle Certification \_\_\_\_\_

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

[Signature] \_\_\_\_\_ [Signature] \_\_\_\_\_  
 Driver Signature Shipment Date Driver Signature Delivery Date

**DESTINATION**

Site Name VASCO ROAD LAND FILL Phone No. 510-4470491  
 Address 4101 N. VASCO RD. LINDSEY CA 94557

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

\_\_\_\_\_  
 Name of Authorized Agent Signature Receipt Date

PASS CODE \_\_\_\_\_

**NON-HAZARDOUS SPECIAL WASTE MANIFEST**

**GENERATOR**

Generator Name Joan Schonbrood / Angela Barbato Generating Location \_\_\_\_\_

Address PO BOX 74412 Address 554 2<sup>nd</sup> ST.  
MENLO PARK 94025 OAKLAND CA 94612

Phone No. 415-2330310 Phone No. \_\_\_\_\_

BFI Waste Code CA 405 C31095 229715 Containers \_\_\_\_\_  
Description of Waste \_\_\_\_\_

Quantity	Units	Containers	
		No.	Type
<u>18</u>	<u>V</u>	<u>01</u>	<u>T</u>

CONTAMINATED SOIL

- Type
- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name Misty D... Signature \_\_\_\_\_ Shipment Date 031395

**TRANSPORTER**

Truck No. \_\_\_\_\_ Phone No. (510) 487-3397

Transporter Name DellaFosse Driver Name (Print) \_\_\_\_\_

Address PO BOX 1272 Vehicle License No./State 421

CA CA 94612 Vehicle Certification \_\_\_\_\_

I hereby certify that the above named material was picked up at the generator site listed above. I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature \_\_\_\_\_ Shipment Date \_\_\_\_\_ Driver Signature \_\_\_\_\_ Delivery Date \_\_\_\_\_

**DESTINATION**

Site Name VASCO LANDFILL Phone No. 510-4470491

Address 4001 VASCO RD. L. VASCO CA 94550

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent \_\_\_\_\_ Signature \_\_\_\_\_ Receipt Date 031395

PASS CODE \_\_\_\_\_

**NON-HAZARDOUS SPECIAL WASTE MANIFEST**

**GENERATOR**

Generator Name Jean Schoonwood / Angela Barngrove Generating Location \_\_\_\_\_

Address 20 HOY 7442 Address 554 27th St  
Menlo Park 94025 San Bruno, CA 94062

Phone No. 415-333-3100 Phone No. \_\_\_\_\_

BFI Waste Code 62 455 031095 329715 Containers \_\_\_\_\_ Type \_\_\_\_\_  
 Description of Waste \_\_\_\_\_

Description of Waste	Quantity	Units	No.	Type
<u>WATER WASH SOL</u>	<u>18</u>	<u>7</u>	<u>51</u>	<u>T</u>

- Type
- D - Drum
- C - Carton
- B - Bag
- T - Truck
- P - Pounds
- Y - Yards
- O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name Dusty Lee Signature [Signature] Shipment Date 03/13/95

**TRANSPORTER**

Truck No. 580 Phone No. 415-333-3317

Transporter Name DellaFosse Driver Name (Print) [Signature]

Address 20 HOY 7442 Vehicle License No./State 744-45

CA ON 94025 Vehicle Certification 413601

I hereby certify that the above named material was picked up at the generator site listed above.

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature [Signature] Shipment Date 03/13/95 Driver Signature [Signature] Delivery Date 03/13/95

**DESTINATION**

Site Name VASIC LANDFILL Phone No. 510-447-2111

Address 1101 VASIC 21 20000 CA 94550

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent \_\_\_\_\_ Signature [Signature] Receipt Date 03/13/95

PASS CODE \_\_\_\_\_

**NON-HAZARDOUS SPECIAL WASTE MANIFEST**

**GENERATOR**

Generator Name John S. Woodhead/Asset Management Generating Location \_\_\_\_\_  
 Address 21107 2442 Address 554 1st St  
MENLO PARK 94025 Oakland, CA 94612  
 Phone No. 415-733-0310 Phone No. 510-437-115  
 BFI Waste Code CA 405 031095 224715 Containers

Description of Waste	Quantity	Units	No.	Type
PENTAMETAL SOL	18	Y	01	T

- Type  
 D - Drum  
 C - Carton  
 B - Bag  
 T - Truck  
 P - Pounds  
 Y - Yards  
 O - Other

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name DUSTY ROY Signature \_\_\_\_\_ Shipment Date \_\_\_\_\_

**TRANSPORTER**

Truck No. 71 Phone No. 510-748-2397  
 Transporter Name DELTA E-SSB TRUCKING Driver Name (Print) \_\_\_\_\_  
 Address P.O. BOX 1672 Vehicle License No./State 11P52  
UNION CITY, CA 94587 Vehicle Certification \_\_\_\_\_

I hereby certify that the above named material was picked up at the generator site listed above. I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature \_\_\_\_\_ Shipment Date \_\_\_\_\_ Driver Signature \_\_\_\_\_ Delivery Date \_\_\_\_\_

**DESTINATION**

Site Name VASCO LANDFILL Phone No. 510-447-0191  
 Address 4001 VASCO RD LIVERMORE, CA 94550

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent \_\_\_\_\_ Signature \_\_\_\_\_ Receipt Date \_\_\_\_\_

PASS CODE \_\_\_\_\_

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, DIRECTOR

June 6, 1995  
STID 3923

Joan Schoonbrood  
PO Box 7442  
Menlo Park CA 94026

Angela Barbagelata  
15 San Lorenzo Way  
San Francisco CA 94127

DEPARTMENT OF ENVIRONMENTAL HEALTH  
State Water Resources Control Board  
Division of Clean Water Programs  
UST Local Oversight Program  
1131 Harbor Bay Parkway  
Alameda, CA 94502-6577  
(510) 567-6700

RE: former service station/vacant lot, 554-27th St., Oakland CA 94612

Dear Ms. Schoonbrood and Ms. Barbagelata,

I am in receipt of the "Underground Storage Tank Removal, Final Report," prepared by All Environmental Inc. (AEI), dated 2/22/95. This report was received in this office on 2/23/95. I am also in receipt of the "Groundwater Investigation Work Plan," also prepared by AEI, dated 5/15/95. The workplan was received in this office on 5/18/95.

The workplan involves the installation of three groundwater monitoring wells. I telephoned Mike Killoran of AEI on 6/5/95 to clarify some issues which arose upon review of the workplan. Certain pages of the workplan were revised and faxed to this office on 6/5/95 and 6/6/95. **With these changes, the workplan is acceptable for implementation.**

**Please notify me at least 2 business days prior to field work.** Please contact me at 510-567-6761 if you have any questions. **Please submit the report of activities under your own cover letter.**

Sincerely,

A handwritten signature in cursive script, appearing to read "Jennifer Eberle".

Jennifer Eberle  
Hazardous Materials Specialist

cc: Mike Killoran, All Environmental Inc., 2641 Crow Canyon Rd., #5, San Ramon CA  
94583  
Mee Ling Tung, Acting Chief/file

je.3923

*\* good one*

**ALL ENVIRONMENTAL, INC.**  
2641 CROW CANYON BLVD., SUITE 5  
SAN RAMON, CA 94583  
(510) 820-3224  
FAX: 838-2687

FAX TRANSMITTAL SHEET

TO: Jennifer Eberle  
FAX NUMBER: 337-9335  
FROM: Mike Killoran

MESSAGE: \_\_\_\_\_

Here's the changes  
to Schoonbrood.

Thanks,  
Michael

DATE: \_\_\_\_\_ NO. OF PAGES (including cover page): \_\_\_\_\_

grade due to the shallow groundwater encountered during the tank excavations. The proposed locations are shown in Figure 2, Site Plan.

The borings will be advanced with a CME 45 or CME 75 hydraulic rotary drill rig with hollow stem augers to approximately ten feet below the top of the groundwater table.

Undisturbed soil samples will be taken at 5 foot intervals, starting at approximately five feet below the ground surface, with a hammer-driven California Modified split spoon sampler. A minimum of one soil sample from each of the borings will be selected for analyses on the basis of Photoionization Detector (PID) readings as well as visual observations. The sampler will be advanced ahead of the auger tip by successive hammer blows. The samples will be collected for classification according to the Unified Soil Classification System (USCS) and chemical analysis.

The soil samples will be collected in two-inch diameter brass tubes, and sealed with plastic end caps and duct tape. All samples will be stored in an ice chest, and transported under chain of custody to a California State Certified analytical laboratory, Priority Labs in Milpitas, California.

Soil samples taken from the three borings will be tested for:

- 1) Total Petroleum Hydrocarbons as Gasoline (TPHg) (EPA 5030/8015);
- 2) Total Petroleum Hydrocarbons as Deisel (TPHd) (EPA 3550/8015);
- 3) BTEX (EPA 5030/8020)

Additionally, the soil samples from boring MW-1 will be tested for:

- 1) Oil & Grease (5520 E & F).
- 2) LUFT Metals: Cadmium, Chromium, and Lead (EPA Methods 7130, 7190, 7420)

A detailed description of sample collection and handling procedures by Priority Labs is appended to this work plan (Appendix B: Sampling Quality Assurance and Quality Control Procedure).

All sampling equipment will be cleaned in buckets with brushes and a TSP or Alconox solution, then rinsed twice with tap water. The drill rig and augers will be steam cleaned prior to drilling and on-site before departure. Rinsate water will be contained on-site in sealed, labeled drums.

Soil cuttings generated during drilling will be stored on-site in 55 gallon drums. Treatment or off-site disposal of drill cuttings is not a part of this work scope. It is possible that a licensed hauler will be contracted to transport the soils as non-hazardous waste to a local landfill facility.

## **6.0 GROUNDWATER INVESTIGATION**

Soil borings will be converted to groundwater monitoring wells. The well will be constructed of 2-inch flush-threaded Schedule 40 PVC blank casing, and 0.020" factory-slotted well screen. The completed well will be about 20 feet deep with five feet of blank and fifteen feet of screened casing. The actual specifications of the wells will be modified in accordance with the actual subsurface conditions encountered.

The top of the well screen will extend about five feet above the groundwater level to account for maximum seasonal fluctuations (Figure 4: Well Construction Diagram). The well casing will be inserted through the augers to a point a few inches above the borehole terminus where it will be suspended until the casing is secured within a sand pack. Sand (#3) will be poured through the augers in one- to two-foot lifts up to about two feet above the top of the perforated



casing. One to two feet of bentonite pellets will be placed above the sand, and activated with tap water. The seal will be finished up to the surface with cement/bentonite grout. A locking top cap and a flush-mounted watertight well cover will be installed at surface grade.

The well will be developed at least 72 hours after installation by surging the well with a surge block and pumping water into a DOT 17H drum until the water appears to be reasonably clear.

Groundwater will be checked for sheen and free product prior to purging and sampling. Free product and sheen will be measured with a disposable bailer which will be lowered slowly to the groundwater surface and filled about half full for direct observation.

The well will be allowed to recharge and groundwater samples will be obtained at least 24 hours after development in a clean disposable bailer, secured in 1 liter and 40 ml volatile organic analysis (VOA) vials, placed in a cooler with ice and delivered to a California State Certified Laboratory with chain of custody documents. All water samples will be analyzed for:

- 1) Total Petroleum Hydrocarbons as Gasoline (TPHg) (EPA 5030/8015);
- 2) Total Petroleum Hydrocarbons as Diesel (TPHd) (EPA 5030/8510);
- 3) BTEX (EPA 5030/8020)

Additionally, water samples from MW-1 will be analyzed for:

- 1) Oil & Grease (5520 C & F)
- 2) LUFT Metals: Cadmium, Chromium, Lead (EPA Methods 7130, 7190, 7420).

Well development and sampling equipment will be decontaminated as described in Section 5.

**ALL ENVIRONMENTAL, INC.**  
 2641 CROW CANYON BLVD., SUITE 5  
 SAN RAMON, CA 94583  
 (510) 820-3224  
 FAX: 838-2687

FAX TRANSMITTAL SHEET

TO: Jennifer Eberle  
 FAX NUMBER: 337-9335  
 FROM: Mike Killoran

MESSAGE:

Here are the corrected  
pages for Schoonbrood's work-  
plan for installing monitoring  
wells (554 27th St, Oakland)  
Please let me know if you  
need anything else.

Thanks  
Mike Killoran

DATE: 6/5/95 NO. OF PAGES (including cover page): 4

May 15, 1995  
Job No. 1243

Ms. Jennifer Eberle  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, 2nd Floor  
Alameda, CA 94502-6577

Subject: **554 27th Street, Oakland, California**  
**Work Plan - Installation of Groundwater Monitoring Wells and**  
**Implementation of Quarterly Groundwater Monitoring**

Dear Ms. Eberle:

All Environmental Inc. (AEI) is submitting this work plan to install groundwater monitoring wells and implement a quarterly groundwater monitoring program at 554 27th Street, Oakland, California. The site location is shown in Figure 1, Site Location Map.

Four underground storage tanks - three gasoline and one waste oil - were removed from the site in January, 1995. Soil samples obtained from the gasoline tank excavation were analyzed and found to contain concentrations of up to 17 parts per million (ppm) lead, but tests for Total Petroleum Hydrocarbons as gasoline (TPHg) and the volatile compounds Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) indicated nondetectable concentrations of these constituents. Analytical testing of soils excavated from the waste oil tank excavation during the tank removal showed up to 36,000 ppm Total Oil & Grease (TOG) and 720 ppm Total Petroleum Hydrocarbons as diesel (TPHd). TPHg, TPHd, BTEX, and the metals cadmium, chromium, lead, nickel, and zinc were also above detectable levels in soil samples from the waste oil tank excavation. Soil samples retrieved from the waste oil tank excavation were also analyzed for chlorinated hydrocarbons, but were below detectable concentrations.

Because the base of the tanks and initial excavation floor was located about three feet below the groundwater table, a water sample was retrieved and analyzed for TPHg, BTEX, and lead. Lead was not detected, but TPHg was detected at concentrations of 910 ppb, Benzene at 0.0068 ppm, Toluene at 0.0095 ppm, Ethylbenzene at 0.0085 ppm, and Xylenes at 0.019 ppm. *good*

Three borings are proposed for the site. One will be downgradient relative to the waste oil tank excavation, within 10 feet of the excavation. A second boring will be located downgradient relative to the gasoline tank excavation. The third boring will be situated between the other two wells in a triangular configuration so that a reliable groundwater

grade due to the shallow groundwater encountered during the tank excavations. The proposed locations are shown in Figure 2, Site Plan.

The borings will be advanced with a CME 45 or CME 75 hydraulic rotary drill rig with hollow stem augers to approximately ten feet below the top of the groundwater table.

Undisturbed soil samples will be taken at 5 foot intervals, starting at approximately five feet below the ground surface, with a hammer-driven California Modified split spoon sampler. A minimum of one soil sample will be obtained from each of the borings. The sampler will be advanced ahead of the auger tip by successive hammer blows. The samples will be collected for classification according to the Unified Soil Classification System (USCS) and chemical analysis.

*based on PID readings as well as visual obs*

The soil samples will be collected in two-inch diameter brass tubes, and sealed with plastic end caps and duct tape. All samples will be stored in an ice chest, and transported under chain of custody to a California State Certified analytical laboratory, Priority Labs in Milpitas, California.

Soil samples taken from the three borings will be tested for:

- 1) Total Petroleum Hydrocarbons as Gasoline (TPHg) (EPA 5030/8015);
- 2) BTEX (EPA 5030/8020)
- 3) Oil & Grease (5520 E & F) *- just MW 1*
- 4) LUFT Metals: Cadmium, Chromium, Lead, Nickel, and Zinc (EPA Methods 7130, 7190, 7420, 7520, and 7950) *just MW 1*
- 5) ~~Purgeable Halocarbons (EPA 601/8010)~~

*TPH d*

casing. One to two feet of bentonite pellets will be placed above the sand, and activated with tap water. The seal will be finished up to the surface with cement/bentonite grout. A locking top cap and a flush-mounted watertight well cover will be installed at surface grade.

*after inst . w/ surge block*

The well will be developed at least 72 hours ~~prior to purging and sampling~~ by pumping water into a DOT 17H drum until the water appears to be reasonably clear.

Groundwater will be checked for sheen and free product prior to purging and sampling. Free product and sheen will be measured with a disposable bailer which will be lowered slowly to the groundwater surface and filled about half full for direct observation.

The well will be allowed to recharge and groundwater samples will be obtained at least 24 hours after ~~purging~~ <sup>development</sup> in a clean disposable bailer, secured in 1 liter and 40 ml volatile organic analysis (VOA) vials, placed in a cooler with ice and delivered to a California State Certified Laboratory with chain of custody documents. All water samples will be analyzed for:

- 1) Total Petroleum Hydrocarbons as Gasoline (TPHg) (EPA 5030/8015); ✓
- 2) BTEX (EPA 5030/8020) ✓
- 3) LUFT Metals: Cadmium, Chromium, Lead (EPA Methods 7130, 7190, 7420). ✓ *→ just MW/*  
*TPH d*

Additionally, water samples from MW-1 will be analyzed for:

- 1) Oil & Grease (5520 E & F) ✓

Well development and sampling equipment will be decontaminated as described in Section 5.

**ALL ENVIRONMENTAL, INC.**  
2641 CROW CANYON BLVD., SUITE 5  
SAN RAMON, CA 94583  
(510) 820-3224  
FAX: 838-2687

FAX TRANSMITTAL SHEET

TO: Jennifer Eberle  
FAX NUMBER: 337-9335  
FROM: Mike Killoran

MESSAGE: \_\_\_\_\_  
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DATE: \_\_\_\_\_ NO. OF PAGES (including cover page): \_\_\_\_\_

casing. One to two feet of bentonite pellets will be placed above the sand, and activated with tap water. The seal will be finished up to the surface with cement/bentonite grout. A locking top cap and a flush-mounted watertight well cover will be installed at surface grade.

The well will be developed at least 72 hours prior to purging and sampling by pumping water into a DOT 17H drum until the water appears to be reasonably clear.

Groundwater will be checked for sheen and free product prior to purging and sampling. Free product and sheen will be measured with a disposable bailer which will be lowered slowly to the groundwater surface and filled about half full for direct observation.

The well will be allowed to recharge and groundwater samples will be obtained at least 24 hours after purging in a clean disposable bailer, secured in 1 liter and 40 ml volatile organic analysis (VOA) vials, placed in a cooler with ice and delivered to a California State Certified Laboratory with chain of custody documents. All water samples will be analyzed for:

- 1) Total Petroleum Hydrocarbons as Gasoline (TPHg) (EPA 5030/8015);
- 1) Total Petroleum Hydrocarbons as Diesel (TPHd) (EPA 5030/8510);
- 2) BTEX (EPA 5030/8020)
- 3) LUFT Metals: Cadmium, Chromium, Lead (EPA Methods 7130, 7190, 7420).

Additionally, water samples from MW-1 will be analyzed for:

- 1) Oil & Grease (5520 C & F)

Well development and sampling equipment will be decontaminated as described in Section 5.

95 MAY 10 PM 12:20

May 15, 1995  
Job No. 1243

Ms. Jennifer Eberle  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, 2nd Floor  
Alameda, CA 94502-6577

Subject: **554 27th Street, Oakland, California**  
**Work Plan - Installation of Groundwater Monitoring Wells and**  
**Implementation of Quarterly Groundwater Monitoring**

Dear Ms. Eberle:

All Environmental Inc. (AEI) is submitting this work plan to install groundwater monitoring wells and implement a quarterly groundwater monitoring program at 554 27th Street, Oakland, California. The site location is shown in Figure 1, Site Location Map.

Four underground storage tanks - three gasoline and one waste oil - were removed from the site in January, 1995. Soil samples obtained from the gasoline tank excavation were analyzed and found to contain concentrations of up to 17 parts per million (ppm) lead, but tests for Total Petroleum Hydrocarbons as gasoline (TPHg) and the volatile compounds Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) indicated nondetectable concentrations of these constituents. Analytical testing of soils excavated from the waste oil tank excavation during the tank removal showed up to 36,000 ppm Total Oil & Grease (TOG) and 720 ppm Total Petroleum Hydrocarbons as diesel (TPHd). TPHg, TPHd, BTEX, and the metals cadmium, chromium, lead, nickel, and zinc were also above detectable levels in soil samples from the waste oil tank excavation. Soil samples retrieved from the waste oil tank excavation were also analyzed for chlorinated hydrocarbons, but were below detectable concentrations.

Because the base of the <sup>fuel</sup> tanks and initial excavation floor was located about three feet below the groundwater table, a water sample was retrieved and analyzed for TPHg, BTEX, and lead. Lead was not detected, but TPHg was detected at concentrations of 910 ppm, Benzene at 0.0068 ppm, Toluene at 0.0095 ppm, Ethylbenzene at 0.0085 ppm, and Xylenes at 0.019 ppm.

Three borings are proposed for the site. One will be downgradient relative to the waste oil tank excavation, within 10 feet of the excavation. A second boring will be located downgradient relative to the gasoline tank excavation. The third boring will be situated between the other two wells in a triangular configuration so that a reliable groundwater



gradient map may be produced. The presumed downgradient direction is towards San Francisco Bay, to the west. The depth to groundwater is probably on the order of five to ten feet below ground surface due to the shallow groundwater encountered during the tank excavations.

The borings will be advanced with a CME 45 or CME 75 hydraulic rotary drill rig and samples will be collected using a hollow stem auger. Soil samples will be taken and logged under the supervision of a geologist or engineer registered with the State of California, approximately at five foot intervals above the groundwater table. Ideally, the wells will be drilled at least ten feet below the groundwater table.

Soil and groundwater samples will be tested for TPH gasoline, BTEX, Oil & Grease, the metals cadmium, chromium, lead nickel, and zinc, and purgeable halocarbons. The soil samples will be collected using brass liners, and sealed with plastic end caps and tape. Liter bottles and 40-ml vials (VOA's) will be used for collecting groundwater samples. All samples will be stored in an ice chest, and transported under chain of custody to a California State Certified analytical laboratory, Priority Labs in Milpitas, California.

If you have any questions or comments regarding this work plan, please call at (510) 820-3224.

Sincerely,



Michael J. Killoran  
Project Geologist

**GROUNDWATER INVESTIGATION  
WORK PLAN**

**554 27th Street  
Oakland, CA**

5-15-95

**Prepared For**

**Ms. Joan Schoonbrood  
PO Box 7442  
Menlo Park, CA 94025**

**and**

**Angela Barbagelata  
15 San Lorenzo way  
San Francisco, CA 94127**

**Prepared By**

**All Environmental, Inc.  
2641 Crow Canyon Road, Suite 5  
San Ramon, CA 94583**

**May 15, 1995**

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- FIGURE 1: SITE LOCATION MAP
- FIGURE 2: SITE MAP
- FIGURE 3: BORING AND WELL LOCATION MAP
- FIGURE 4: TYPICAL WELL CONSTRUCTION DIAGRAM

## **LIST OF APPENDICES**

- APPENDIX A: HEALTH & SAFETY PLAN
- APPENDIX B: SAMPLING QA/QC PROCEDURE

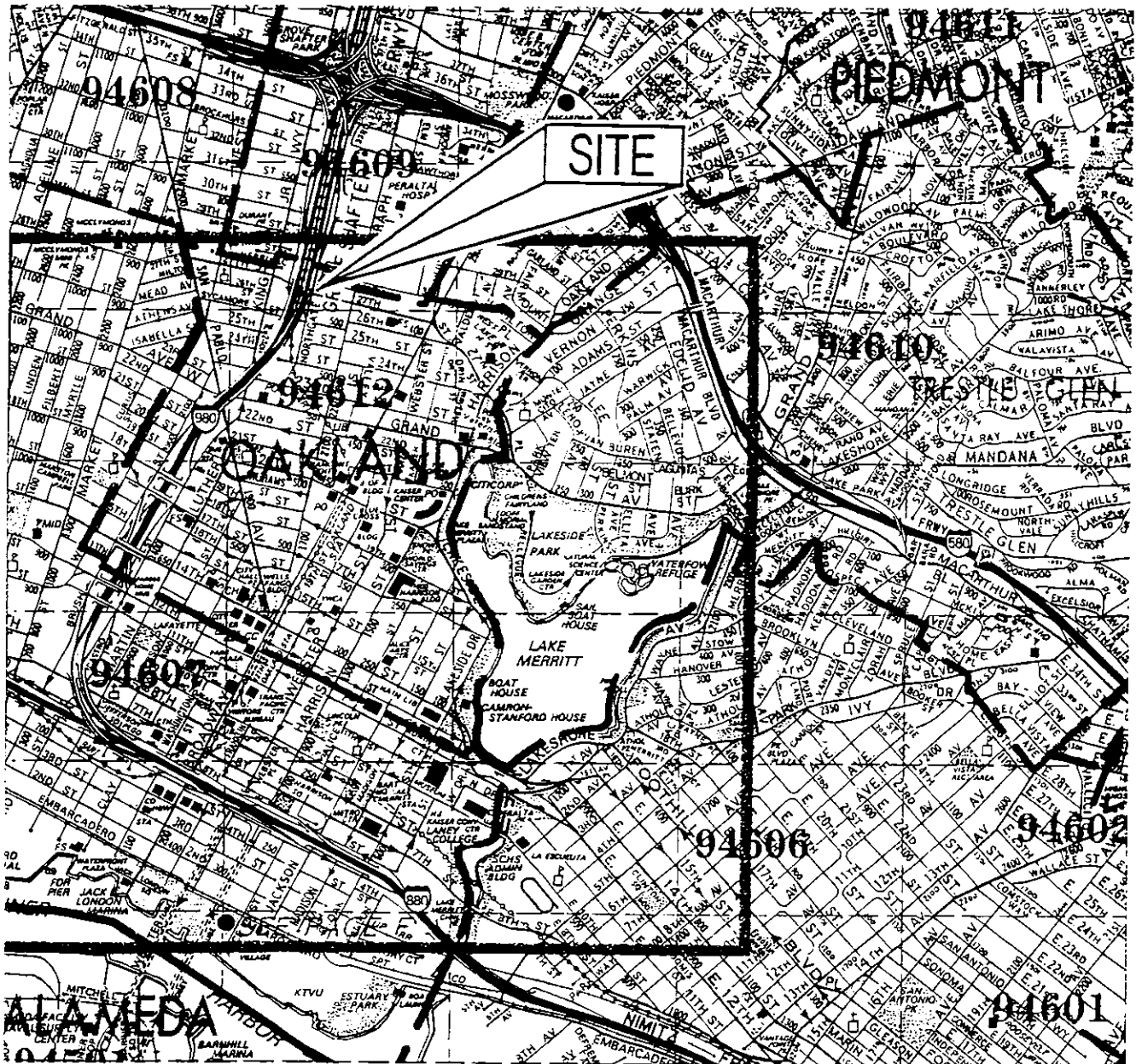
## **1.0 INTRODUCTION**

All Environmental, Inc. (AEI) has prepared this workplan on behalf of Ms. Joan Schoonbrood, in response to her request for a groundwater remediation program at 554 27th Street in Oakland, California. The purpose of this investigation is to characterize the soil, groundwater gradient, and detect the presence or absence of contamination in soil and/or groundwater. AEI proposes advancing three soil borings and constructing a monitoring well in each boring. All borings will be logged and soil samples will be obtained for laboratory analyses for fuel-related constituents. After the wells have been constructed, each will be developed, purged, and samples of well water will be collected for laboratory analyses. Prior to the commencement of field activities, this work plan will be approved by the Alameda County Health Care Services Agency. Monitoring wells will be sampled for a period of at least one year. AEI will apply for closure for the site at that time if contamination is not encountered in the quarterly monitoring program.

## **2.0 SITE DESCRIPTION**

The site is located at the north side of 27th Street, just east of the 980 Freeway in Oakland, California. (Figure 1: Site Location Map). The topography of the site slopes westerly, toward San Francisco Bay, with an elevation of about 18 feet above Mean Sea Level. The nearest significant surface water is Lake Merritt, located approximately 3100 feet to the southeast. The narrow waterway connecting Lake Merritt with the Inner Harbor lies approximately 8800 feet to the south.

Two backfilled excavations are located at the site. A concrete pad which formerly housed two pump islands is located in the center of the site. A sidewalk is located along the adjoining



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

DRAWN BY:  
 DATE:

REVISED BY:  
 APPROVED BY:

SITE LOCATION MAP

From Thomas Bro's. - 1993

554 27th Street, Oakland

FIGURE 1

west side of the site. One building is located on the property. Site features are shown on Figure 2, Site Map.

### 3.0 SITE BACKGROUND

A brief summary of site activities performed by AEI is listed below:

- January 18, 1995: Four underground storage tanks removed. The tanks consisted of three gasoline tanks - 6000-gallon, 8000-gallon, and 10,000 gallon - and one 500-gallon waste oil tank. Soil from the excavations was stockpiled at the site pending laboratory analyses of representative soil samples.
- February 7, 1995: Gasoline tank excavation was backfilled with stockpiled soil and clean imported fill.
- February 8, 1995: Waste oil tank excavation overexcavated, primarily to remove high levels of Total Oil and Grease.
- February 16, 1995: Waste oil tank excavation backfilled with clean imported soil. Further details of the overexcavation are contained in the Overexcavation of Contaminated Soil Report by AEI, dated March 3, 1995. *don't have this - MK will*
- March 13, 1995: Stockpiled soil that was found to be unsuitable fill material due to contaminant levels was hauled to Vasco Road Landfill.

Because groundwater was encountered in the excavation, a water sample was retrieved and analyzed for TPHg, BTEX, and lead. Lead was not detected, but TPHg was detected at concentrations of 910 ppb, Benzene at 0.0068 ppm, Toluene at 0.0095 ppm, Ethylbenzene at 0.0085 ppm, and Xylenes at 0.019 ppm.

On-Ramp to 980

27th Street

Sidewalk

MW-1

Waste Oil Tank  
Excavation -  
Approximately  
9' x 25' x 25'

Stockpiles

~100 cu. yds soil

Former Pump Island

MW-2  
~250 cu. yds  
soil

Former Location of Underground  
Gasoline Storage Tanks

MW-3

Monitoring Well Location

N

Not To Scale

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

DRAWN BY: MK

REVISED BY:

DATE: May, 1995

APPROVED BY:

### SITE PLAN

554 27th Street, Oakland

FIGURE 2



## 4.0 GEOLOGY AND HYDROGEOLOGY

According to the Quaternary Geologic Map of the San Francisco Bay 4° x 6° Quadrangle, United States (US Geological Survey, 1993), the near surface geology of the site consists of alluvial fan gravely sand of Quaternary age. This soil is gray or pale yellow to yellowish or reddish brown to red, weakly to moderately consolidated, slightly to deeply weathered gravely sand with interbedded silt and clay. Fans represent multiple depositional episodes.

During the tank removals, groundwater was encountered in the excavations at approximately nine feet below the ground surface<sup>to 11'</sup>. Local groundwater flow is believed to be generally to the west, toward San Francisco Bay.

## 5.0 SOIL BORING INVESTIGATION

The workplan for this soil and groundwater investigation includes drilling three borings; soil logging, sampling, and laboratory analysis; monitoring well construction; well development; and groundwater sampling and laboratory analysis.

One boring will be located within 10 feet and downgradient relative to the waste oil tank excavation. The second boring will be located near the gasoline tank excavation, in a downgradient position relative to it. The third boring will be situated between the first two wells in a triangular configuration so that a reliable groundwater gradient map may be produced. The presumed downgradient direction is towards San Francisco Bay, to the west. The depth to groundwater is suspected to be on the order of five to ten feet below surface

grade due to the shallow groundwater encountered during the tank excavations. The proposed locations are shown in Figure 2, Site Plan.

The borings will be advanced with a CME 45 or CME 75 hydraulic rotary drill rig with hollow stem augers to approximately ten feet below the top of the groundwater table.

Undisturbed soil samples will be taken at 5 foot intervals, starting at approximately five feet below the ground surface, with a hammer-driven California Modified split spoon sampler. The sampler will be advanced ahead of the auger tip by successive hammer blows. The samples will be collected for classification according to the Unified Soil Classification System (USCS) and chemical analysis. *how many analyzed? - to be determined*

The soil samples will be collected in two-inch diameter brass tubes, and sealed with plastic end caps and duct tape. All samples will be stored in an ice chest, and transported under chain of custody to a California State Certified analytical laboratory, Priority Labs in Milpitas, California.

Soil samples taken from the three borings will be tested for:

- 1) Total Petroleum Hydrocarbons as Gasoline (TPHg) (EPA 5030/8015); ✓ *TPH d*
- 2) BTEX (EPA 5030/8020) ✓
- 3) Oil & Grease (5520 E & F) - *just MWI*
- 4) LUFT Metals: Cadmium, Chromium, Lead, Nickel, and ~~Zinc~~ (EPA Methods 7130, 7190, 7420, 7520, and 7950) *only MWI*
- 5) ~~Purgeable Halocarbons~~ (EPA 601/8010) *no need*

A detailed description of sample collection and handling procedures by Priority Labs is appended to this work plan (Appendix B: Sampling Quality Assurance and Quality Control Procedure).

All sampling equipment will be cleaned in buckets with brushes and a TSP or Alconox solution, then rinsed twice with tap water. The drill rig and augers will be steam cleaned prior to drilling and on-site before departure. Rinsate water will be contained on-site in sealed, labeled drums.

Soil cuttings generated during drilling will be stored on-site in 55 gallon drums. Treatment or off-site disposal of drill cuttings is not a part of this work scope. It is possible that a licensed hauler will be contracted to transport the soils as non-hazardous waste to a local landfill facility.

## 6.0 GROUNDWATER INVESTIGATION

Soil borings will be converted to groundwater monitoring wells. The well will be constructed of 2-inch flush-threaded Schedule 40 PVC blank casing, and 0.020" factory-slotted well screen. The completed well will be about 20 feet deep with five feet of blank and ~~five~~ <sup>15'</sup> feet of screened casing. The actual specifications of the wells will be modified in accordance with the actual subsurface conditions encountered.

← he means

→ that's 10' (not 20')

The top of the well screen will extend about five feet above the groundwater level to account for maximum seasonal fluctuations (Figure 4: Well Construction Diagram). The well casing will be inserted through the augers to a point a few inches above the borehole terminus where it will be suspended until the casing is secured within a sand pack. Sand (#3) will be poured through the augers in one- to two-foot lifts up to about two feet above the top of the perforated casing. One to two feet of bentonite pellets will be placed above the sand, and activated with tap water. The seal will be finished up to the surface with cement/bentonite grout. A locking top cap and a flush-mounted watertight well cover will be installed at surface grade.

72 hrs after inst.

The well will be developed by pumping water into a DOT 17H drum until the water appears to be reasonably clear.

Groundwater will be checked for sheen and free product prior to purging and sampling. Free product and sheen will be measured with a disposable bailer which will be lowered slowly to the groundwater surface and filled about half full for direct observation.

724 hrs after devel.

The well will be allowed to recharge and groundwater samples will be obtained in a clean disposable bailer, secured in 1 liter and 40 ml volatile organic analysis (VOA) vials, placed in a cooler with ice and delivered to a California State Certified Laboratory with chain of custody documents. All water samples will be analyzed for:

- 1) Total Petroleum Hydrocarbons as Gasoline (TPHg) (EPA 5030/8015); ✓ TPH d
- 2) BTEX (EPA 5030/8020) ✓
- 3) Oil & Grease (5520 E & F) only MW (
- 4) LUFT Metals: Cadmium, Chromium, Lead, Nickel, and Zinc (EPA Methods 7130, 7190, 7420, 7520, and 7950). only MW (
- 5) ~~Purgeable Halocarbons (EPA 601/8010)~~ -- no

Well development and sampling equipment will be decontaminated as described in Section 5.

## 7.0 SITE SAFETY

Prior to commencement of field activities, a site safety meeting will be held at a designated location near the working area. Emergency procedures will be outlined at this meeting. Also, the hazards of the known or suspected chemicals of interest will be explained. Level D personal protection equipment is the anticipated maximum amount of protection needed. A site Health & Safety Plan which conforms to Part 1910.120 (i) (2) of 29 CFR will be on site at all times during the performance of this project. (Appendix A: Health & Safety Plan)

A working area will be established with barricades and warning tape to delineate the zone where hard hats and steel-toe shoes must be worn, and where unauthorized personnel will not be allowed. If fuel product odors are deemed to be substantial during drilling, half-face respirators with organic vapor cartridges will be worn.

A nearby hospital will be designated in the site safety plan as the emergency medical facility of first choice. A map with a course plotted to the hospital will be on-site.

## 8.0 ESTIMATED SCHEDULE

Upon acceptance of this workplan by the Alameda County Health Services Agency, work will commence within a two week period, weather permitting. The Alameda County Health Care Services Agency will be given adequate notification of the scheduled day of drilling. Soil and groundwater laboratory results will be obtained within two weeks of collection. The final report will be prepared and copies will be delivered to the Alameda County Health Care Services Agency and the Regional Water Quality Control Board (CRWQCB).

no need

The proposed project schedule is as follows:

Week 1-2:	Drilling and Well Sampling
Week 3:	Laboratory Analysis
Week 4-5:	Preparation of Final Report

## **9.0 FINAL REPORT**

A complete and final report of methods, findings, and conclusions from work proposed herein will be submitted to the client for forwarding to the appropriate agencies. The report will include alternative recommendations on groundwater remediation. The report will be submitted under the seal of a Registered Civil Engineer, Mr. Michael Battel.

**APPENDIX A**  
**HEALTH & SAFETY PLAN**

HEALTH AND SAFETY PLAN

for  
554 27th Street  
Oakland, CA

Prepared for:

Joan Schoonbrood  
PO Box 7442  
Menlo Park, CA 94025



A. INTRODUCTION

This Site Specific Health and Safety Plan is written for the removal of four underground storage tanks located at 554 27th Street, Oakland. All job site personnel will follow CAL OSHA safe operating practices as outlined in 29 CFR 1910 and 1926, as well as established guidelines set forth by All Environmental, Inc. or their respective companies.

B. WORK DESCRIPTION

Prepared by: Charles Kissick, Project Manager

Site Manager: Dustin Roy

Address: 554 27th Street  
Oakland, CA

*done already*

Scope of Work: All Environmental, Inc. (AEI) will remove three underground gasoline storage tanks with capacities of 10,000, 8,000, and 6,000 gallons, and one 500 gallon waste oil tank. Excavated soil will be stockpiled on site, and soil samples will be retrieved from the stockpile for analytical testing. In addition, soil samples will be retrieved from the bottom of the tank excavation, beneath both ends of the tank, under the direct supervision of a health inspector from the County of Alameda, and an inspector from the City of Oakland Fire Department. Following removal of the tank, the stockpiled soil will be placed back into the excavation. Final disposal of the soil will be dependant on results of the analytical testing of the soil.

C. SITE/WASTE CHARACTERISTICS

Hazard Level:      Serious:                      Low: XXX  
                         Moderate: XXX                      Unknown:

Waste Type:      Solid:              Underground Storage Tanks  
                         Sludge:            None  
                         Liquid:            Gasoline and/or Waste Oil Remaining in Tanks  
                         Gas:                None

Hazard Characteristics:      Flammable, Toxic

There will be a three foot boundary surrounding the excavation and the stored soil. The area within this boundary is considered an exclusion zone and only qualified personnel will be

allowed to enter. All personnel arriving or departing the site should log in before entering the exclusion zone. All activities on site must be cleared through the Site Manager.

#### D. HAZARD EVALUATION

Potential chemical hazards include skin and eye contact or inhalation exposure to potentially toxic concentrations of hydrocarbon vapors. The potential toxic compounds that may exist at the site are listed below with descriptions of specific health effects of each. The list includes the primary potential toxic constituents that may be found at sites which previously handled petroleum hydrocarbons, including home heating diesel fuel.

##### 1. Benzene

- a. Colorless to light yellow, flammable liquid with an aromatic odor.
- b. Toxic hazard by **inhalation, adsorption, ingestion and skin and/or eye contact.**
- c. Exposure may irritate eyes, nose and respiratory system and may cause acute restlessness, convulsions, nausea, or depression. Benzene is carcinogenic.\*
- d. Permissible exposure level (PEL) for a time weighted average (TWA) over an eight hour period is 1.0 ppm.

##### 2. Toluene

- a. Colorless liquid with a sweet, pungent, benzene like odor.
- b. Toxic hazard by **inhalation, adsorption, ingestion and skin and/or eye contact.**
- c. Exposure may cause fatigue, weakness, confusion, euphoria, dizziness, headaches, dilated pupils, lacrimation, nervousness, insomnia, paresthesia, and dermatitis.
- d. Permissible exposure level for a time weighted average over an eight hour period is 100 ppm.

##### 3. Xylene

- a. Colorless liquid with an aromatic odor.
- b. Toxic hazard by **inhalation, adsorption, ingestion and skin and/or eye contact.**
- c. Exposure may irritate eyes nose and throat and may cause dizziness, excitement, drowsiness, incoordination, corneal vacuolization, anorexia, nausea, vomiting, and dermatitis.
- d. Permissible exposure level for a time weighted average over an eight hour period is 100 ppm.

##### 4. Ethylbenzene

- a. Colorless liquid with an aromatic odor.
- b. Toxic hazard by **inhalation, ingestion, and skin and/or eye contact.** Ethylbenzene is carcinogenic.\*
- c. Exposure may irritate eyes and mucous membrane and may cause headaches, dermatitis, narcosis and loss of consciousness.
- d. Permissible exposure level for a time weighted average over an eight hour period is 100 ppm.

5. Lead

- a. A heavy ductile soft grey metal.
- b. Toxic hazard by **inhalation, ingestion, and skin and/or eye contact.**
- c. Exposure may cause weakness, nausea, lassitude, diarrhea, insomnia, anorexia, inflamed mucous membranes and abdominal pains. Lead is carcinogenic.\*
- d. Permissible exposure level for a time weighted average over an eight hour period is .05 ppb (in vapor).

6. Diesel

- a. Colorless to dark brown, combustible liquid with an aromatic odor
- b. Toxic hazard by **inhalation, ingestion, skin and/or eye contact.**
- c. Inhalation of vapors may depress the central nervous system, increasing reaction times, and decreasing pulse rate and blood pressure. Skin irritant.
- d. Occupational exposure limit 5.0 ppm (in vapor).

7. Gasoline

- a. Colorless liquid with a strong aromatic odor. Highly volatile and extremely flammable.
- b. Toxic hazard by **inhalation, adsorption, ingestion, and skin and/or eye contact.**
- c. Inhalation of vapors can cause depression of the central nervous system with symptoms such as headache, dizziness, nausea, and loss of coordination. Skin contact can cause defatting of the skin, skin irritation, and dermatitis. Benzene is a major constituent of gasoline.
- d. Permissible exposure level for a time weighted average over an eight hour period is 300 ppm.

8. Waste Oil

- a. Toxic hazard by **ingestion** and possibly **inhalation.**
- b. Prolonged contact may cause skin irritation and dermatitis. Waste oil may be carcinogenic.\*
- c. Waste oil may contain metals or toxic organics from thermal breakdown of the oil. In some cases, chlorinated solvents may be present.
- d. Permissible exposure level for a time weighted average over an eight hour period is 5 ppm (in vapor).

\* Known to the State of California to cause cancer.

Dusty Roy has been designated to coordinate access control and security on site. All work will strictly follow OSHA guidelines. A safe perimeter has been established at a three foot radius surrounding the site. These boundaries are identified by yellow caution tape and orange safety cones. Personnel shall maintain the maximum distance from the excavation while performing their duties. Additional hazards on site include heavy equipment and overhead lifting equipment. Only 40-hour trained personnel will operate equipment or perform any duty associated with this project.

A FIRST AID KIT AND A 40 POUND BC FIRE EXTINGUISHER WILL BE AVAILABLE ON SITE.

EMERGENCY SERVICES ARE AVAILABLE BY DIALING 911 ON THE TELEPHONE LOCATED IN THE SITE MANAGER'S VEHICLE. THIS VEHICLE WILL BE ON SITE AT ALL TIMES.

#### E. PERSONAL PROTECTIVE CLOTHING

Based on evaluation of potential hazards, level "D" protective clothing has been designated as the appropriate protection for this project. The level of protective clothing will be upgraded if the organic vapor levels in the operator's breathing zone exceeds 5 ppm above background levels continuously for more than five minutes, or if any single reading exceeds 25 ppm. If this occurs then level C protection will be used. If the organic concentration in the operator's breathing zone exceed's 200 ppm for 5 minutes and/or the organic vapor concentration two feet above the excavation exceeds 1,000 ppm or 10% of the lower explosive limit, then the equipment will be shut down and the site evacuated. If organic vapor concentrations exceed 200 ppm and work continues then level B protection will be required.

"EPA Standard Operating Safety Guidelines" defines the levels of protective clothing as follows:

##### LEVEL A:

Fully encapsulating suit / SCBA / Hard hat / Steel toe boots / Safety gloves.

##### LEVEL B:

Splash resistant suit / SCBA / Hard Hat / Steel toe boots / Safety gloves.

##### LEVEL C:

Half face respirator / Hard hat / Safety glasses / Steel toe boots / Coveralls / Gloves.

##### LEVEL D:

Coveralls / Hard hat / Safety Glasses / Steel toe boots / Gloves.

If air purifying respirators are authorized, organic vapor w-filter is the appropriate canister for use with the involved substances and concentrations. A competent individual has determined that all criteria for using this type of respiratory protection have been met.

15 ppm

NO CHANGES TO THE SPECIFIED LEVELS OF PROTECTION SHALL BE MADE WITHOUT THE APPROVAL OF THE COMPANY SAFETY OFFICER, G. W. ROY.

F. MONITORING INSTRUMENTS

The following environmental monitoring instruments shall be used on site at specified intervals.

Lower Explosive Limit (LEL) Meter that will also check the tank for Oxygen levels will be used to check the tank for removal and transportation.

G. EMERGENCY HOSPITAL

The closest hospital with an emergency room is:

**PERALTA HOSPITAL**

**(510) 451-4900**

DIRECTIONS FROM THE JOB SITE:

EXIT JOBSITE AND GO:

Right on 27th, make U-turn;  
Left on Telegraph;  
Right on 30th Street;  
Hospital is located on the left.

**APPENDIX B**  
**SAMPLING QA/QC PROCEDURE**

## **QUALITY ASSURANCE/QUALITY CONTROL PROCEDURE**

### **I. QA OBJECTIVES:**

We at Priority Environmental Labs (PEL), commit to a quality assurance program designed to guarantee our analytical results are valid and properly documented.

### **II. SAMPLING PROCEDURES:**

Sampling should be done according to EPA guidelines. Precautions are taken to avoid sample contamination and to maintain sample integrity. Proper containers and preservation techniques are used if necessary. For example, with water samples requiring volatile organic analysis, 40 ml vials with teflon-lined septa are used. For water samples requiring semi-volatile organic analysis, 1-liter glass bottles with teflon-lined septa are used.

In case we provide these containers for our clients, we buy only EPA-approved containers. Once they arrive, they are washed in detergent and rinsed first with tap water then with deionized water.

### **III. SAMPLE CUSTODY:**

The sampler is required to secure his samples upon arrival at the laboratory. Next, samples are inspected by our receiver to assure that proper containers, their conditions, and needed preservatives are used. Our receiver also inspects all necessary information such as sample identification, time of collection, sampling techniques, analysis required, etc. If needed, we can provide clients with our chain of custody. A PEL file number is assigned to each batch of samples to identify it.

Finally, samples are ready to be stored in refrigerators which are daily monitored to make sure their temperatures are less than 4 degrees centigrade.

### **IV. CALIBRATION PROCEDURES AND FREQUENCY**

For routine analyses, a five-point calibration curve is used. Then, a mid-point standard is run every day. If the response factor of this mid-point standard is less than 20% of the calibration curve, the average response factor from the calibration will be used for

calculation. Otherwise, a new calibration curve will be established after needed correction measures are performed.

For non-routine analyses, a three-point calibration curve will be established and its average response factor is used for calculation.

#### V. ANALYTICAL PROCEDURES:

Analyses are performed according to methods in Test Methods for Evaluating Solid Waste, SW-846, Third Edition, LUFT, Methods for Organic Chemical Analysis of Municipal and Industrial Waste Water, EPA - 600/4-82-057, and other methods approved by either EPA or DHS.

In general, before analyzing samples, we run a reagent water blank to make sure that our instrument, glassware and reagents are free of contamination.

For each batch of samples, we analyze a sample blank by running a reagent water blank or a clean sample of similar matrix to that of real sample through all steps of preparation and measurement.

Next, a mid-point standard is run to check the validity of our existing calibration curve. Now, we are ready to analyze samples. A duplicate sample and a spiked sample are to be run for any batch of samples or for every ten samples to check the precision of the result and the percentage of recover of compounds spiked.

#### VI. DATA REDUCTION, VALIDATION AND REPORTING:

The analyst responsible for the analysis will perform data reduction and validation by strictly following guidelines set by appropriate approved methods.

Later, his data interpretation and calculation will be checked by a supervisor for validity before a typed report is issued. Both the analyst and his supervisor will proofread the report for any error before sending it to the client.

A copy of the report along with a copy of the chain of custody, chromatogram if any, calculation sheets and other information related to the analysis will be kept on file.

#### VII. INTERNAL QUALITY CONTROL CHECKS:

For every batch of sample, a quality control check sample will be run. This check sample will have all analyses needed to be determined in real samples. If any problem occurs, the corresponding supervisor will determine the appropriate corrective action.



VIII. PERFORMANCE AND SYSTEM AUDITS:

Several times a month, the supervisor will test the measurement systems with samples of known compositions or behavior to evaluate precision and accuracy without the knowledge of the analyst to determine whether the measurement systems are being used appropriately.

IX. PREVENTIVE MAINTENANCE:

All instruments in the laboratory are regularly checked and maintained following manufacturer's suggestions. Any replacement, modification is timely recorded in an instrument record logbook.

X. PROCEDURES FOR DATA PRECISION AND ACCURACY:

We follow the quality assurance criteria set by the California Department of Health Services.

XI. CORRECTIVE ACTION:

Whenever a problem occurs, we will apply the following procedures:

- Identifying and defining the problem.
- Assigning responsibility for investigation the problem.
- Investigating the cause of the problem.
- Determine corrective action to eliminate the problem which may be a combination of:
  - \*A thorough check of instruments.
  - \*A thorough check of standards, reagents, deionized water.
- Accepting responsibility for the corrective action.
- Evaluating its effectiveness.
- Verifying that the corrective action has eliminated the problem.

XII. QUALITY ASSURANCE REPORT:

Our quality assurance program is maintained periodically. QA/AC data are recorded in different logbooks for different methods of analyses. These logbooks are weekly reviewed by our laboratory director.

The final report sent to our clients also includes all quality control data obtained while running samples.

# ALL ENVIRONMENTAL, INC.

*Environmental Engineering & Construction*

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February 22, 1995  
Job No. 1174

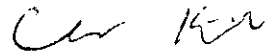
Ms. Jennifer Eberle  
Alameda County Health Care Services Agency  
1131 Harbour Bay Parkway, 2nd Floor  
Alameda, CA 94502-6577

Subject: **554 27th Street, Oakland, California  
Tank Removal Report**

Dear Ms. Eberle:

We are enclosing one copy of the referenced report for your review, which describes the work performed for the tank removal at 554 27th Street in Oakland. If you have any questions or comments regarding the findings presented in this report, please call at (510) 820-3224.

Sincerely,



Charles Kissick, CEG  
Senior Geologist

cc: Joan Schoonbrood  
Angela Barbagelata

**ALL ENVIRONMENTAL, INC.**  
**2641 CROW CANYON BLVD., SUITE 5**  
**SAN RAMON, CA 94583**  
**(510) 820-3224**  
**FAX: 838-2687**

**FAX TRANSMITTAL SHEET**

TO: Jennifer Ebeole

FAX NUMBER: 357-9333

FROM: C. Marie Kissick

MESSAGE: Lab data from over-excavation.

Please call so we can discuss the next step.

DATE: 2/14/95

NO. OF PAGES (including cover page): 2



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

PEL # 9502027

February 11, 1995

ALL ENVIRONMENTAL, INC.

Attn: Charles Kissick

Re: Eleven soil samples for Gasoline/BTEX, Diesel, and Oil & Grease analyses.

Project name: Schoonbrood

Project number: 1174

Date sampled: Feb 08, 1995  
 Date extracted: Feb 09-11, 1995

Date submitted: Feb 09, 1995  
 Date analyzed: Feb 09-11, 1995

**RESULTS:**

SAMPLE I.D.	Gasoline (mg/Kg)	Diesel (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylene (ug/Kg)	Oil & Grease (mg/Kg)
OESWE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
OESWN	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
OESWS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
OESWW	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
OEWO	120	420	59	50	32	140	6800
STKP 1-4*	64	110	20	25	44	81	1300
STKP 5-8*	23	220	11	6.2	17	53	1800
TSTKP 1	N.D.	71	N.D.	N.D.	N.D.	N.D.	23
TSTKP 2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
TSTKP 3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
TSTKP 4	N.D.	23	N.D.	N.D.	N.D.	N.D.	39
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	99.8%	101.2%	100.4%	80.3%	99.2%	100.4%	---
Detection limit	1.0	1.0	5.0	5.0	5.0	5.0	10
Method of Analysis	5030 / 8015	3550 / 8015	8020	8020	8020	8020	5520 D & F

walls }  
 bottom }

\*Composited soil samples.

*David Duong*  
 David Duong  
 Laboratory Director

white -env.health  
yellow -facility  
pink -files

# ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

1131 Harbor Bay Pkwy  
Alameda CA 94502  
510/567-6700

## Hazardous Materials Inspection Form

### II, III

Site ID # \_\_\_\_\_ Site Name Schonbrood Today's Date 2, 8, 95  
Site Address 354 - 27th St.  
City Oakland Zip 94 612 Phone \_\_\_\_\_

\_\_\_\_\_ MAX AMT stored > 500 lbs, 55 gal., 200 cft.?  
**Inspection Categories:**  
\_\_\_\_\_ I. Haz. Mat/Waste GENERATOR/TRANSPORTER  
\_\_\_\_\_ II. Hazardous Materials Business Plan, Acutely Hazardous Materials  
\_\_\_\_\_ III. Under ground Storage Tanks

overexcavation  
+  
resample.

\* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

**Comments:** 4:10 arrived.  
We'll discard the 4 wall samples for earlier today (+ keep the bottom sample) bec. RP instructed HEI to continue excavating. There are now 2 stockpiles: one probably clean (~100 yd<sup>3</sup>) + one probably dirty (~250 yd<sup>3</sup>). The silica SP is under visqueen.  
4:15 Took wall samples at ~ 8' bgs. Soils sampled appeared clean, although the S wall was slightly green in color (no HC color). Dusty has already sampled the new stockpiles; they're being covered w/visqueen now. See attached map for sample locations. Pit is now ~25' x ~25' x ~9' deep.  
4:35  
left site

~~Remember Cooler w/Ice~~

Contact Dusty Roy  
Title Const. Sup.  
Signature Dusty Roy

Inspector J. Eberle  
Signature J. Eberle

### II, III

On-Ramp to 980

27th Street

Sidewalk

Vacant Building

2-8-95  
Samples

500 gal. Waste Oil Tank

Dispenser Islands

Dispensers

Concrete Pad

Piping  
(assumed routes)

Gasoline Tanks

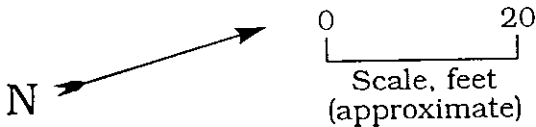
6000 gal.

8000 gal.

10,000 gal.

Property  
Line

Note: Depth to groundwater may  
be 10 to 15 feet.  
No utilities or wells on site.



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

DRAWN BY:

REVISED BY:

DATE:

APPROVED BY:

SITE PLAN

554 27th Street, Oakland

FIGURE 1

white -env.health  
yellow -facility  
pink -files

# ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

1131 Harbor Bay Pkwy  
Alameda CA 94502  
510/567-6700

## Hazardous Materials Inspection Form

II, III

Site ID # \_\_\_\_\_ Site Name Schoonbrood Today's Date 2/8/95  
Site Address 554-27th St.  
City Oakland Zip 94612 Phone \_\_\_\_\_

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

### Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Hazardous Materials Business Plan, Acutely Hazardous Materials
- III. Under ground Storage Tanks

\* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

### Comments:

9:00 arrived onsite.  
The big fuel tank pit has been backfilled; the stockpile is gone, presumably <sup>used</sup> backfilled. Our objective is to overexcavate the waste oil pit. The existing ~ 5 yd<sup>3</sup> of soil stockpiled from previous waste oil excavation was moved next to the back wall. There is water (probably rain) in the pit at ~4' bgs. It appears clean, but we removed it + placed in the 55-gal drum anyway. 9:27 Overexcavated waste oil pit to gw (~10' bgs) \* Sampled right above gw in the sandy silt. This sample (bottom) ~10' is called OEWO; soil is greenish w/ slight HC odor, from ~7' to the bottom of pit (~10'). 10:20 N wall at ~9' bgs (OE-SW-N). 10:23 E wall at ~9' (OE-SW-E). 10:25 W wall at ~9' (OE-SW-W). 10:33 S wall at ~9' (OE-SW-S). All these samples were greenish w/moderate HC odor, sandy silt. There's ~25 to 30 yd<sup>3</sup> stockpile from 4 days work. It's being sampled as per landfill guidelines. The excavation is now 14' x 14' x ~10' deep.  
10:42 left site.

Contact Dusty Roy  
Title Cons. Sup  
Signature Dusty Roy

Inspector Jennifer Eberle  
Signature J Eberle

II, III



**ALL ENVIRONMENTAL, INC.**  
**2641 CROW CANYON BLVD., SUITE 5**  
**SAN RAMON, CA 94583**  
**(510) 820-3224**  
**FAX: 838-2687**

**FAX TRANSMITTAL SHEET**

TO: Jennifee Eberle

FAX NUMBER: 337-9535

FROM: Charlie Kissick

MESSAGE: for your files

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DATE: 2/2/95

NO. OF PAGES (including cover page): 3



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

January 25, 1995

PEL # 9501041

ALL ENVIRONMENTAL, INC.

Attn: Charles Kissick

Re: Three soil samples for total Oil & Grease analysis.

Project name: Schoonbrood

Project number: 1174

Date sampled: Jan 18-19, 1995


Date submitted: Jan 20, 1995

Date extracted: Jan 24-25, 1995

Date analyzed: Jan 24-25, 1995

## RESULTS:

SAMPLE I.D.	Oil & Grease (mg/Kg)
4,1	
STKP-1,4	720
WOB	2000
WOB-STKP	26000
Blank	N.D.
Detection Limit	100
Method of Analysis	5520 F

  
 David Duong  
 Laboratory Director



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

January 23, 1995

PEL # 9501041

ALL ENVIRONMENTAL, INC.

Attn: Charles Kissick

Project name: Schoonbrood

Project number: 1174

Sample I.D.: WOB

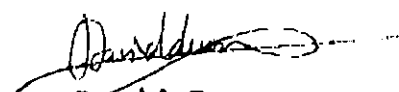
Date Sampled: Jan 18-19, 1995  
Date Analyzed: Jan 20-23, 1995

Date Submitted: Jan 20, 1995

Method of Analysis: EPA 8010

Detection limit: 5.0 ug/Kg

COMPOUND NAME	CONCENTRATION ( ug/Kg )	SPIKE RECOVERY ( % )
Chloromethane	N.D.	-----
Vinyl Chloride	N.D.	-----
Bromomethane	N.D.	-----
Chloroethane	N.D.	-----
Trichlorofluoromethane	N.D.	-----
1,1-Dichloroethene	N.D.	-----
Methylene Chloride	N.D.	-----
1,2-Dichloroethene (TOTAL)	N.D.	-----
1,1-Dichloroethane	N.D.	-----
Chloroform	N.D.	82.1
1,1,1-Trichloroethane	N.D.	-----
Carbon Tetrachloride	N.D.	-----
1,2-Dichloroethane	N.D.	-----
Trichloroethene	N.D.	80.9
1,2-Dichloropropane	N.D.	-----
Bromodichloromethane	N.D.	-----
2-Chloroethylvinylether	N.D.	-----
Trans-1,3-Dichloropropene	N.D.	-----
Cis-1,3-Dichloropropene	N.D.	-----
1,1,2-Trichloroethane	N.D.	-----
Tetrachloroethene	N.D.	81.7
Dibromochloromethane	N.D.	-----
Chlorobenzene	N.D.	-----
Bromoform	N.D.	-----
1,1,2,2-Tetrachloroethane	N.D.	-----
1,3-Dichlorobenzene	N.D.	-----
1,4-Dichlorobenzene	N.D.	-----
1,2-Dichlorobenzene	N.D.	-----

  
David Duong

Laboratory Director

**ALL ENVIRONMENTAL, INC.**  
**2641 CROW CANYON BLVD., SUITE 5**  
**SAN RAMON, CA 94583**  
**(510) 820-3224**  
**FAX: 838-2687**

**FAX TRANSMITTAL SHEET**

TO: JENNIFER Clarke

FAX NUMBER: 337-9335

FROM: DUSTY

MESSAGE: \_\_\_\_\_

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DATE: 1/26/95 NO. OF PAGES (including cover page): 2



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

January 25, 1995

PEL # 9501041

ALL ENVIRONMENTAL, INC.

Attn: Charles Kissick

Re: Three soil samples for total Oil & Grease analysis.

Project name: Schoonbrood  
Project number: 1174

Date sampled: Jan 18-19, 1995  
Date extracted: Jan 24-25, 1995

Date submitted: Jan 20, 1995  
Date analyzed: Jan 24-25, 1995

**RESULTS:**

SAMPLE I.D.	Oil & Grease (mg/Kg)
STKP-1,4	720
WOB	2000
WOB-STKP	26000
Blank	N.D.
Detection Limit	100
Method of Analysis	5520 D = just polars (# HC) F = HC O+E

*D = just polars (# HC)  
F = HC O+E*

*chemist  
408-888-4359  
mobile phone*

*David Duong*  
David Duong  
Laboratory Director

**ALL ENVIRONMENTAL, INC.**  
**2641 CROW CANYON BLVD., SUITE 5**  
**SAN RAMON, CA 94583**  
**(510) 820-3224**  
**FAX: 838-2687**

**FAX TRANSMITTAL SHEET**

**TO:** Jennifer Ebeole

**FAX NUMBER:** 337-4335

**FROM:** Charlie Kissik

**MESSAGE:** \_\_\_\_\_

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**DATE:** 1/26

**NO. OF PAGES (including cover page):** 2



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

January 25, 1995

PEL # 9501041

ALL ENVIRONMENTAL, INC.

Attn: Charles Kissick

Re: Three soil samples for Gasoline/BTEX and TCLP Benzene analyses.

Project name: Schoonbrood

Project number: 1174

Date sampled: Jan 18-25, 1995  
Date extracted: Jan 24-25, 1995

Date submitted: Jan 20&25, 1995  
Date analyzed: Jan 24-25, 1995

### RESULTS:

*neg. limit = .5 ppm = 500 ppb*

SAMPLE I.D.	Gasoline (mg/Kg)	TCLP Benzene (ug/L)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylene (ug/Kg)
STKP-1,4	---	N.D.	---	---	---	---
STKP-1,5	---	1.4 <i>ok</i>	---	---	---	---
SW-NW	N.D.	---	N.D.	N.D.	N.D.	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	80.9%	---	90.4%	91.4%	91.9%	82.8%
Detection Limit	1.0	0.5	5.0	5.0	5.0	5.0
Method of Analysis	5030 / 8015	1311 / 602	8020	8020	8020	8020

*David Duong*  
David Duong  
Laboratory Director

**ALL ENVIRONMENTAL, INC.**  
 2641 CROW CANYON BLVD., SUITE 5  
 SAN RAMON, CA 94583  
 (510) 820-3224  
 FAX: 838-2687

**FAX TRANSMITTAL SHEET**

TO: JENNIFER

FAX NUMBER: \_\_\_\_\_

FROM: Charlie

MESSAGE: \_\_\_\_\_

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DATE: \_\_\_\_\_ NO. OF PAGES (including cover page): 4





# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

PEL # 9501041

January 26, 1995

ALL ENVIRONMENTAL, INC.

Attn: Charles Kissick

Re: One soil sample for total Lead analysis.

Project name: Schoonbrood

Project number: 1174

Date sampled: Jan 25, 1995

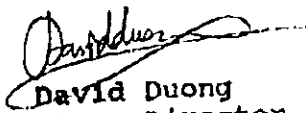
Date extracted: Jan 25-26, 1995

Date submitted: Jan 25, 1995

Date analyzed: Jan 25-26, 1995

### RESULTS:

SAMPLE I.D.	Lead (mg/Kg)
SW-NW	6.2
Blank	N.D.
Detection limit	0.5
Method of Analysis	7420

  
 David Duong  
 Laboratory Director



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

PEL # 9501041

January 26, 1995

ALL ENVIRONMENTAL, INC.

Attn: Charles Kissick

Re: One water and fourteen soil samples for total Lead analysis.

Project name: Schoonbrood  
Project number: 1174

Date sampled: Jan 18, 1995  
Date extracted: Jan 20-26, 1995

Date submitted: Jan 20, 1995  
Date analyzed: Jan 20-26, 1995

### RESULTS:

SAMPLE I.D.	Lead (mg/L)
W-1	N.D.
Detection limit	0.1

*water*

SAMPLE I.D.	Lead (mg/Kg)
P-1	6.1
P-2	20
P-3	10
STKP-1,1	11
STKP-1,2	10
STKP-1,3	8.6
STKP-1,4	15
STKP-1,5	3.7
STKP-2,1&2,-3,1*	7.7
SWE	15
SWS	27
WF 1	17
WF 2	6.3
WF 3	14
Blank	N.D.
Detection limit	1.0
Method of Analysis	7420

\*Composited soil sample.

*David Duong*  
David Duong  
Laboratory Director



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

PEL # 9501041

January 26, 1995

ALL ENVIRONMENTAL, INC.

Attn: Charles Kissick

Re: Three soil samples for Cadmium, Chromium, Lead, Nickel, and Zinc analyses.


Project name: Schoonbrood  
Project number: 1174

Date sampled: Jan 18-19, 1995  
Date extracted: Jan 20-26, 1995

Date submitted: Jan 20, 1995  
Date analyzed: Jan 20-26, 1995

## RESULTS

SAMPLE I.D.	Cadmium (mg/Kg)	Chromium (mg/Kg)	Lead (mg/Kg)	Nikel (mg/Kg)	Zinc (mg/Kg)
STKP- <del>411</del> <sup>411</sup>	11	160	77	59	30
WOB	4.1	34	17	21	12
WOB-STKP	31	320	85	68	71
Blank	N.D.	N.D.	N.D.	N.D.	N.D.
Detection limit	1.0	1.0	1.0	1.0	1.0
Method of Analysis	7130	7190	7420	7520	7950

  
David Duong  
Laboratory Director

**ALL ENVIRONMENTAL, INC.**  
**2641 CROW CANYON BLVD., SUITE 5**  
**SAN RAMON, CA 94583**  
**(510) 820-3224**  
**FAX: 838-2687**

**FAX TRANSMITTAL SHEET**

TO: JENNIFER Ebeck

FAX NUMBER: 357-9355

FROM: DUSTY ROY

MESSAGE: Total Lead + Luft Metals

results will be available

tomorrow.

also need \$210 for W0-B.

DATE: 1/24/95 NO. OF PAGES (including cover page): 6

**ALL ENVIRONMENTAL, INC.**  
 2641 Crow Canyon Road, Ste. 5  
 San Ramon, CA 94583  
 (510) 820-3224 FAX: (510) 838-2687

PEL # 9501041 (2 of 2)  
 INV # 25607

# Chain of Custody

DATE: 1/20/95 PAGE: 2 OF: 2

ENVIRONMENTAL ENGINEERING P.02

R 415 838 2687

01/24/95 14:06

JAN-24-95 TUE 12:37 PM PRIORITY 1BBS

408+946+9663

P.03

AEI PROJECT MANAGER: Charles Kissick  
 PROJECT NAME: Schamberoad  
 PROJECT NUMBER: 1174  
 SIGNATURE: Ch Kiss  
 TOTAL # OF CONTAINERS: 22  
 RECD. GOOD COND./COLD: yes

## ANALYSIS REQUEST

SAMPLE I.D.	DATE	TIME	MATRIX	ANALYSIS REQUEST										NUMBER OF CONTAINERS			
				TPH-Capoline (EPA 5030-5015)	TPH-Cresoline (EPA 5030-5015) w/ BTEX (EPA 802-8020)	TPH-Diesel (EPA 5010/5550-6015)	PURGEABLE AROMATICS BTX (EPA 802-8020)	TOTAL OIL & GREASE (EPA 802-8020)	TOTAL LEAD (AA) (EPA 7480)	VOLATILE ORGANIC COMPOUNDS (EPA 82-60)	SOFT Metals (EPA 7471/7472/7487/7488/7489/7490)	STLC CUM 17 (EPA 1310/6010)	ACT ACTIVITY COEFFICIENTS CONTAMINANTS (EPA 8160-8161/8162)				
WF1	1/19/95		Soil		X					X							1
WF2	↓		↓		X					X							1
SWS					X					X							1
SWE					X					X							1
WF3	↓		↓		X					X							1
W-1	1/19/95		Water		X					X							3

ANALYTICAL LAB: Priority Env. Labs  
 ADDRESS: 1764 Rowet Ct  
Milpitas CA 95035  
 PHONE: (408) 946-9636 ext. 9663  
 INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: 1  
Ch Kiss  
 Signature  
Charles Kissick  
 Printed Name  
 AEI  
 Company  
 Time: 8:57 Date: 1/19/95

RECEIVED BY: 1  
David Duanez  
 Signature  
DAVID DUANEZ  
 Printed Name  
 PEL  
 Company  
 Time: 8:57 am Date: 1/20/95

RELINQUISHED BY: 2  
 Signature  
 Printed Name  
 Company  
 Time Date

RECEIVED BY: 2  
 Signature  
 Printed Name  
 Company  
 Time Date

**ALL ENVIRONMENTAL, INC.**  
 2641 Crow Canyon Road, Ste. 5  
 San Ramon, CA 94583  
 (510) 820-3224 FAX: (510) 838-2687

PEL # 9501041 (1 of 2)

Chain of Custody

INV # 25607

DATE: 1/20/95 PAGE: 1 OF: 1

AEI PROJECT MANAGER: Charles Kissick  
 PROJECT NAME: Schoonbrood  
 PROJECT NUMBER: #1174  
 SIGNATURE: Charles Kissick  
 TOTAL # OF CONTAINERS: 22  
 RECD. GOOD COND./COLD: yes

**ANALYSIS REQUEST**

SAMPLE I.D.	DATE	TIME	MATRIX	TPH-Casoline (EPA 503/8015)	TPH-Casoline (EPA 503/8015) w/ BTX (EPA 602/8020)	TPH-Diesel (EPA 8510/3550,8015)	FURAZOLE AROMATICS BTX (EPA 602/8020)	TOTAL OIL & GREASE (EPA 553/2047)	TOTAL LZAD (AA) (EPA 7450)	VOLATILE ORGANIC COMPOUNDS (EPA 8160)	LUFT Meas. (EPA 7461/607/607/607/607)	STLC CAM 17 (EPA 1310/8010)	SGT ACTIVITY COEFFICIENCY MIL. 2. CCR 888/11.0	8010
STKP-1, 1	1/18/95		Soil	X					X					
STKP-1, 2				X					X					
STKP-1, 3				X					X					
STKP-1, 4				X					X					
STKP-1, 5				X					X					
STKP-2, 1				X					X					
STKP-2, 2 } Composite				X					X					
STKP-3, 1				X					X					
STKP-4, 1				X	X			X			X		X	
P-1	1/19/95			X					X					
P-2				X					X					
P-3				X					X					
WDB				X	X			X			X		X	
WDB-STKP				X	X			X			X		X	

ANALYTICAL LAB: Priority Env. Labs  
 ADDRESS: 1764 Forest Ct.  
Milpitas CA 95035  
 PHONE: (408) 546-9636 fax: 546-9663  
 INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: 1  
 Signature: Charles Kissick  
 Printed Name: Charles Kissick  
 Company: AEI  
 Time: 8:57 Date: 1/20/95

RECEIVED BY: 1  
 Signature: David Duong  
 Printed Name: DAVID DUONG  
 Company: pel  
 Time: 8:47 AM Date: 1/20/95

RELINQUISHED BY: 2  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Time: \_\_\_\_\_ Date: \_\_\_\_\_

RECEIVED BY: 2  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Time: \_\_\_\_\_ Date: \_\_\_\_\_

ENVIRONMENTAL ENGINEERING P.00 81/24/95 14:07 415 838 2687

JAN-24-95 TUE 01:00 PM PRIORITY LABS

408+946+9663

P.01



# PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

January 24, 1995

PEL # 9501041

ALL ENVIRONMENTAL, INC.

Attn: Charles Kissick

Re: One water and seventeen soil samples for Gasoline/BTEX, Diesel, and Oil & Grease analyses.

Project name: Schoonbrood

Project number: 1174

Date sampled: Jan 18-19, 1995

Date submitted: Jan 20, 1995

Date extracted: Jan 20-24, 1995

Date analyzed: Jan 20-24, 1995

## RESULTS:

SAMPLE I.D.	Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylene (ug/L)
W-1	910	6.8	9.5	8.5	19
Detection limit	50	0.5	0.5	0.5	0.5
Method of Analysis	5030 / 8015	602	602	602	602

SAMPLE I.D.	Gasoline (mg/Kg)	Diesel (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Oil & Xylene (ug/Kg)	Grease (mg/Kg)
P-1	1.2	---	N.D.	N.D.	9.4	11	---
P-2	N.D.	---	N.D.	N.D.	N.D.	N.D.	---
P-3	N.D.	---	N.D.	N.D.	N.D.	N.D.	---
STKP-1,1	N.D.	---	N.D.	N.D.	N.D.	N.D.	---
STKP-1,2	N.D.	---	N.D.	N.D.	N.D.	N.D.	---
STKP-1,3	N.D.	---	N.D.	N.D.	N.D.	N.D.	---
STKP-1,4	2.6	---	20	43	29	98	---
STKP-1,5	11	---	73	83	71	210	---
STKP-2,1&2,-3,1*	N.D.	---	N.D.	N.D.	N.D.	20	---
SWE	N.D.	---	N.D.	N.D.	N.D.	N.D.	---
SWS	N.D.	---	N.D.	N.D.	N.D.	N.D.	---
WF1	N.D.	---	N.D.	N.D.	N.D.	N.D.	---
WF2	N.D.	---	N.D.	N.D.	N.D.	N.D.	---
WF3	N.D.	---	N.D.	N.D.	N.D.	N.D.	---
WOB	8.1	74	11	9.0	43	92	2500
WOB-STKP	56	720	29	34	78	230	36000
STKP-4,1 above waste at UST	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1300
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked recovery	80.9%	89.0%	90.4%	91.4%	91.9%	82.8%	---
Detection limit	1.0	1.0	5.0	5.0	5.0	5.0	10
Method of Analysis	5030 / 8015	3550 / 8015	8020	8020	8020	8020	5520 D & F

\*Composited soil sample.

*David Duong*  
David Duong  
Laboratory Director

1764 Houret Court Milpitas, CA. 95035

Tel: 408-948-9636

Fax: 408-946-9663

JAN-24-95 TUE 01:01 PM PRIORITY LABS

408+946+9663

P.02



# PRIORITY ENVIRONMENTAL LABS

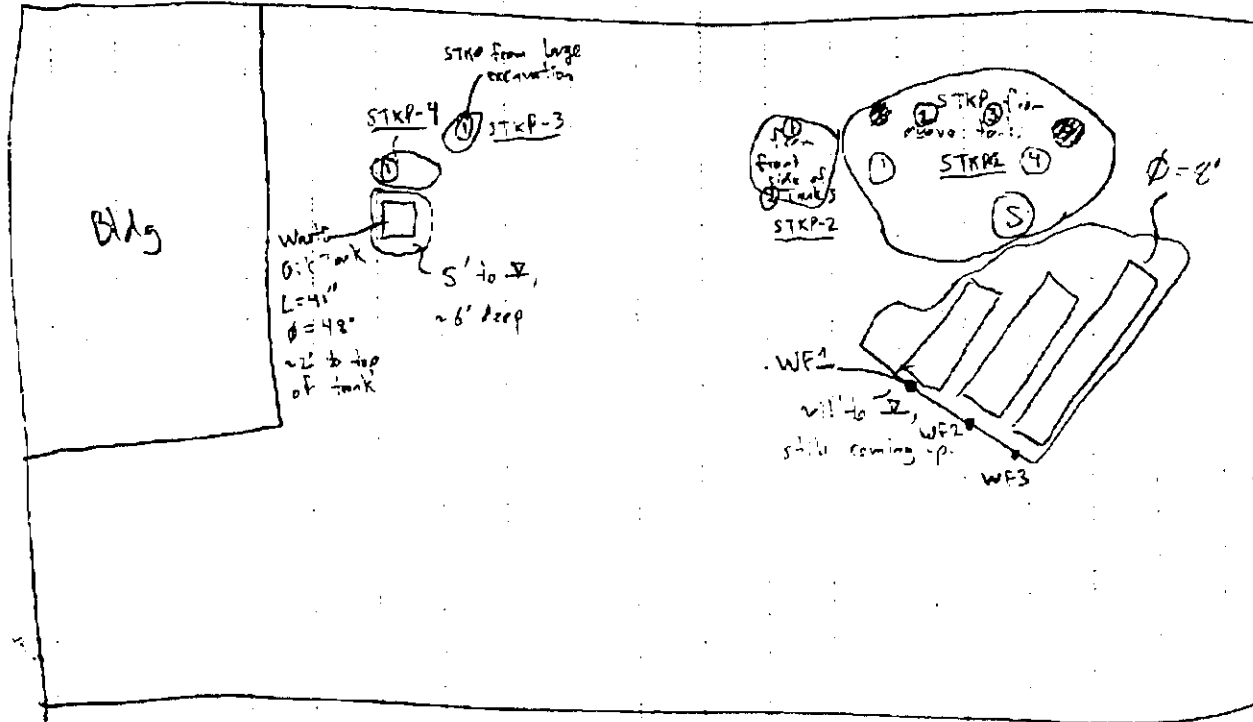
Precision Environmental Analytical Laboratory

January 23, 1995

PEL # 9501041

ALL ENVIRONMENTAL, INC.

Attn: Charles Kissick



1/18/95

Bldg

Well  
 0:1" mark  
 L=41"  
 $\phi=48"$   
 ~2' to top  
 of tank

STKP from large  
 excavation

STKP-4 STKP-3

S' to  $\nabla$ ,  
 ~6' deep

STKP-2  
 STKP-2  
 $\phi=48"$

WF1  
 will to  $\nabla$   
 still coming up  
 WF2  
 WF3

WF1 - 9'  
 WF2 - 8'  
 WF3 - 8'

Sidewall material: dense clayey sand

4' to top of tanks  
 12' to bottom of pit.  
 ~ 9' to  $\nabla$  on 1/19, 8:30 A.M.  
 (11' to  $\nabla$  on 11/18)



#3923  
JE

Z 196 176 752



**Receipt for  
Certified Mail**

No Insurance Coverage Provided  
Do not use for International Mail  
(See Reverse)

PS Form 3800, March 1993

Sent to	
ANGELA BARBAGELATA	
Street and No.	
15 SAN LORENZO WAY	
P.O., State and Z.P. Code	
SAN FRANCISCO CA 94127	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

Certified Mail # Z 196 176 752

01/19/95  
STID# 3923

DEPARTMENT OF ENVIRONMENTAL HEALTH  
State Water Resources Control Board  
ALAMEDA COUNTY-ENV. HEALTH DEPT.  
ENVIRONMENTAL PROTECTION DIV.  
1131 HARBOR BAY PKWY., #250  
ALAMEDA CA 94502-6577  
(510)567-6700

**Notice of Requirement to Reimburse**

Joan Schoonbrood  
N/a  
Po Box 7442  
Menlo Park C A 94026

Responsible Party #1  
Property Owner

Angela Barbagelata  
N/a  
15 San Lorenzo Way  
San Francisco C A 94127

Responsible Party #2  
Contact Person  
Contact Company

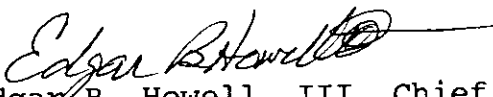
N. Schoonbrood, I. Barbage  
554 27th St  
Oakland, CA 94612

SITE

Date First Reported 01/18/95  
Substance: Gasoline  
Petroleum: (X)Yes

The federal Petroleum Leaking Underground Storage Tank Trust Fund (Federal Trust Fund) provides funding to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks. The legislature has authorized funds to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks. The direct and indirect costs of site investigation or remedial action at the above site are funded, in whole or in part, from the Federal Trust Fund. The above individual(s) or entity(ies) have been identified as the party or parties responsible for investigation and cleanup of the above site. YOU ARE HEREBY NOTIFIED that pursuant to Title 42 of the United States Code, Section 6991b(h)(6) and Sections 25297.1 and 25360 of the California Health and Safety Code, the above Responsible Party or Parties must reimburse the State Water Resources Control Board not more than 150 percent of the total amount of site specific oversight costs actually incurred while overseeing the cleanup of the above underground storage tank site, and the above Responsible Party or Parties must make full payment of such costs within 30 days of receipt of a detailed invoice from the State Water Resources Control Board.

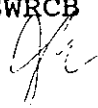
Please contact Jennifer EBERLE, Hazardous Materials Specialist at this office if you have any questions concerning this matter.

  
Edgar B. Howell, III, Chief  
Contract Project Director

cc: Mike Harper, SWRCB

SWRCB Use:

add : X Reason: new



Is your RETURN ADDRESS completed on the reverse side?

**SENDER:**

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- 1.  Addressee's Address
- 2.  Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to **J. EBERLE #3923**

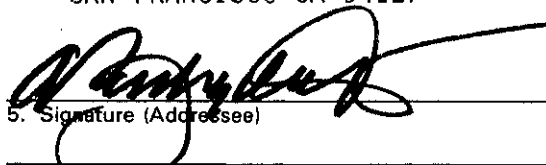
**ANGELA BARBAGELATA  
15 SAN LORENZO WAY  
SAN FRANCISCO CA 94127**

4a. Article Number

**Z 196 176 752**

4b. Service Type

- Registered  Insured
- Certified  COD
- Express Mail  Return Receipt for Merchandise

5. Signature (Addressee)  


6. Signature (Agent)

7. Date of Delivery

8. Addressee's Address (Only if requested and fee is paid)

UNITED STATES POSTAL SERVICE

Official Business



PENALTY FOR PRIVATE  
USE TO AVOID PAYMENT  
OF POSTAGE, \$300



ENVIRONMENTAL  
PROTECTION

95 MAR 35 AM 7:06

Print your name, address and ZIP Code here

• ALAMEDA COUNTY CC4580 •  
DEPT. OF ENVIRONMENTAL HEALTH  
ENVIRONMENTAL PROTECTION DIVISION  
1131 HABRO BAY PKWY., #250  
ALAMEDA CA 94502-6577

#3923  
JE

Z 196 176 753



**Receipt for  
Certified Mail**

No Insurance Coverage Provided  
Do not use for International Mail  
(See Reverse)

PS Form 3800, March 1993

Sent to		JOAN SCHOONBROOD
Street and No.		P.O. BOX 7442
P.O., State and ZIP Code		MENLO PARK CA 94026
Postage		\$
Certified Fee		
Special Delivery Fee		
Restricted Delivery Fee		
Return Receipt Showing to Whom & Date Delivered		
Return Receipt Showing to Whom, Date, and Addressee's Address		
TOTAL Postage & Fees		\$
Postmark or Date		

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

Certified Mail # Z 196 176 753

01/19/95  
STID# 3923

DEPARTMENT OF ENVIRONMENTAL HEALTH  
State Water Resources Control Board  
ALAMEDA COUNTY-ENV. HEALTH DEPT.  
ENVIRONMENTAL PROTECTION DIV.  
1131 HARBOR BAY PKWY., #250  
ALAMEDA CA 94502-6577  
(510)567-6700

Notice of Requirement to Reimburse

Joan Schoonbrood  
N/a  
Po Box 7442  
Menlo Park C A 94026

Responsible Party #1  
Property Owner

Angela Barbagelata  
N/a  
15 San Lorenzo Way  
San Francisco C A 94127

Responsible Party #2  
Contact Person  
Contact Company

N. Schoonbrood, I. Barbage  
554 27th St  
Oakland, CA 94612

SITE Date First Reported 01/18/95  
Substance: Gasoline  
Petroleum: (X)Yes

The federal Petroleum Leaking Underground Storage Tank Trust Fund (Federal Trust Fund) provides funding to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks. The legislature has authorized funds to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks. The direct and indirect costs of site investigation or remedial action at the above site are funded, in whole or in part, from the Federal Trust Fund. The above individual(s) or entity(ies) have been identified as the party or parties responsible for investigation and cleanup of the above site. YOU ARE HEREBY NOTIFIED that pursuant to Title 42 of the United States Code, Section 6991b(h)(6) and Sections 25297.1 and 25360 of the California Health and Safety Code, the above Responsible Party or Parties must reimburse the State Water Resources Control Board not more than 150 percent of the total amount of site specific oversight costs actually incurred while overseeing the cleanup of the above underground storage tank site, and the above Responsible Party or Parties must make full payment of such costs within 30 days of receipt of a detailed invoice from the State Water Resources Control Board.

Please contact Jennifer EBERLE, Hazardous Materials Specialist at this office if you have any questions concerning this matter.

Edgar B. Howell, III, Chief  
Contract Project Director

cc: Mike Harper, SWRCB

SWRCB Use:  add : X Reason: New

Is your RETURN ADDRESS completed on the reverse side?

**SENDER:**

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- 1.  Addressee's Address
- 2.  Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to: #3923 J. EBERLE

JOAN SCHOONBROOD  
P.O. BOX 7442  
MENLO PARK CA 94026

4a. Article Number

Z 196 176 753

4b. Service Type

- Registered  Insured
- Certified  COD
- Express Mail  Return Receipt for Merchandise

7. Date of Delivery

1/31/95

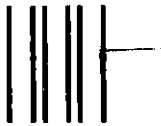
8. Addressee's Address (Only if requested and fee is paid)

5. Signature (Addressee)

6. Signature (Agent)

UNITED STATES POSTAL SERVICE

Official Business



PENALTY FOR PRIVATE  
USE TO AVOID PAYMENT  
OF POSTAGE, \$300



ALBU  
HAZMAT

95 FEB -1 PM 3:36

Print your name, address and ZIP Code here

• ALAMEDA COUNTY CC4580 •  
DEPT. OF ENVIRONMENTAL HEALTH  
ENVIRONMENTAL PROTECTION DIVISION  
1131 HARBOR BAY PKWY., #250  
ALAMEDA CA 94502-6577





white -env.health  
 yellow -facility  
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH  
 Hazardous Materials Inspection Form

80 Swan Way, #200  
 Oakland, CA 94621  
 (415) 271-4320

II, III

Site ID # \_\_\_\_\_ Site Name Schoonbrood Today's Date 1/19/95

II.A BUSINESS PLANS (Title 19)

- \_\_\_ 1. Immediate Reporting 2703
- \_\_\_ 2. Bus. Plan Stas. 25503(b)
- \_\_\_ 3. RR Cars > 30 days 25503.7
- \_\_\_ 4. Inventory Information 25504(a)
- \_\_\_ 5. Inventory Complete 2730
- \_\_\_ 6. Emergency Response 25504(b)
- \_\_\_ 7. Training 25504(c)
- \_\_\_ 8. Deficiency 25505(a)
- \_\_\_ 9. Modification 25505(b)

Site Address 534-27th St.  
 City Oakland Zip 94612 Phone \_\_\_\_\_

\_\_\_ MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- \_\_\_ I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- \_\_\_ II. Business Plans, Acute Hazardous Materials
- \_\_\_ III. Underground Tanks

II.B ACUTELY HAZ. MATLS

- \_\_\_ 10. Registration Form Filed 25533(a)
- \_\_\_ 11. Form Complete 25533(b)
- \_\_\_ 12. RMPP Contents 25534(c)
- \_\_\_ 13. Implement Sch. Req'd? (Y/N)
- \_\_\_ 14. OffSite Conseq. Assess. 25524(c)
- \_\_\_ 15. Probable Risk Assessment 25534(d)
- \_\_\_ 16. Persons Responsible 25534(g)
- \_\_\_ 17. Certification 25534(f)
- \_\_\_ 18. Exemption Request? (Y/N) 25536(b)
- \_\_\_ 19. Trade Secret Requested? 25538

\* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

III. UNDERGROUND TANKS (Title 23)

- |                               |                                                                                |
|-------------------------------|--------------------------------------------------------------------------------|
| General                       | ___ 1. Permit Application 25284 (H&S)                                          |
|                               | ___ 2. Pipeline Leak Detection 25292 (H&S)                                     |
|                               | ___ 3. Records Maintenance 2712                                                |
|                               | ___ 4. Release Report 2651                                                     |
|                               | ___ 5. Closure Plans 2670                                                      |
| Monitoring for Existing Tanks | ___ 6. Method                                                                  |
|                               | 1) Monthly Test                                                                |
|                               | 2) Daily Vadose Semi-annual groundwater One time soils                         |
|                               | 3) Daily Vadose One time soils Annual tank test                                |
|                               | 4) Monthly Gndwater One time soils                                             |
|                               | 5) Daily Inventory Annual tank testing Cont pipe leak det Vadose/gndwater mon. |
|                               | 6) Daily Inventory Annual tank testing Cont pipe leak det                      |
|                               | 7) Weekly Tank Gauge Annual tank testing                                       |
|                               | 8) Annual Tank Testing Daily Inventory                                         |
|                               | 9) Other _____                                                                 |
| New Tanks                     | ___ 7. Precs Tank Test Date: 2643                                              |
|                               | ___ 8. Inventory Rec. 2644                                                     |
|                               | ___ 9. Soil Testing 2646                                                       |
|                               | ___ 10. Ground Water. 2647                                                     |
|                               | ___ 11. Monitor Plan 2632                                                      |
|                               | ___ 12. Access. Secure 2634                                                    |
|                               | ___ 13. Plans Submit Date: 2711                                                |
|                               | ___ 14. As Built Date: 2635                                                    |

7:00 arrived onsite  
 Comments:  
 Gw rose in fuel pit to ~9.5' bgs.  
 9:15 began sample walls of fuel pit - w/drive sampler. Sample depths were 8-9' bgs. Dusty noted that bottom of USTs was ~12' bgs. Attempted deeper sample w/backhoe. Dark sheen on gw in NW corner of pit. Got strong HC odor w/backhoe. Rainbow sheen on gw after using backhoe below gw surface. Soil below gw is saturated, so we took the samples. 10:15 purged oily water in waste oil pit. Removed obviously contaminated soil (in below UST black, oily, odor) + took bottom sample at 7' bgs. Also sampled this new (dirty?) stockpile (WOB-SF) East wall of fuel pit is largely inaccessible to backhoe & drive sampler due to sloughing of soil, so the only place we could sample was S end of E wall (SW-E). 11:00 began sample pump islands. Rusty will rtn to sample gw (w/sheen) later today & to drum oily water.  
 11:43 left site

Rev 6/88

Contact: \_\_\_\_\_  
 Title: AEI  
 Signature: Dusty Roy

Inspector: Jennifer Eberle  
 Signature: J Eberle

411  
 1-16-95

II, III

On-Ramp to 980 →

Vacant Building

1-19-95:

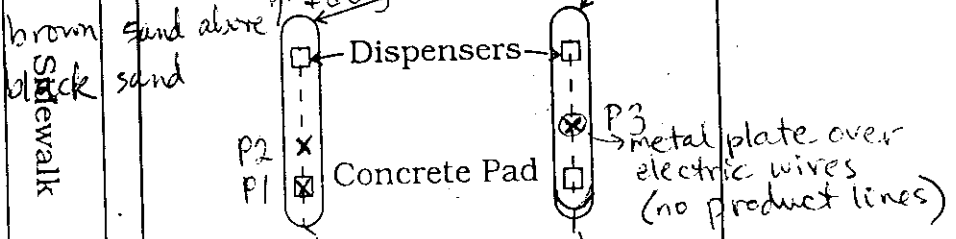
		depth	odor?	color	soil
DS	SW-NW	9'	slight	green	gravelly sand
backhoe	WFill-1	10'	no	brown	clayey sand w/gravel
"	WF2	10'	no	"	"
backhoe	WF3	7.5'	"	"	<del>gravel</del> " " w/gravel + stone
DS	SW-E	8.5'	"	"	" " " "
DS	SW-S	9'	"	"	" " " "

500 gal. Waste Oil Tank

WOB

Dispenser Islands

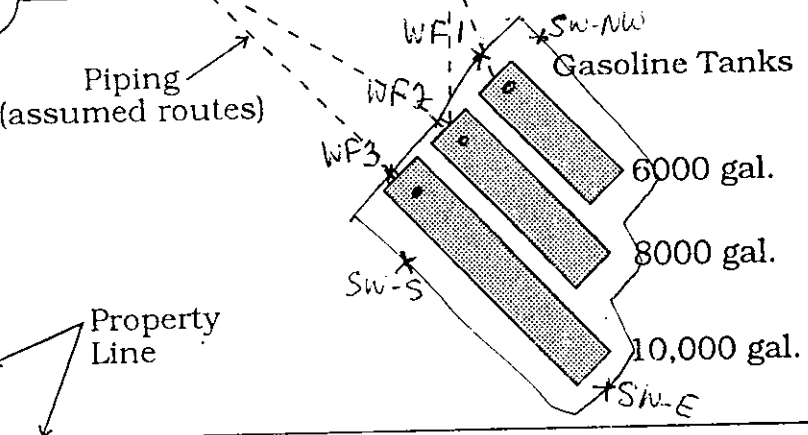
backhoe	WOB bottom	27th Street	7'	no	brown	sand above 7' + clay below 7'
	WOB-S			yes	black	sand



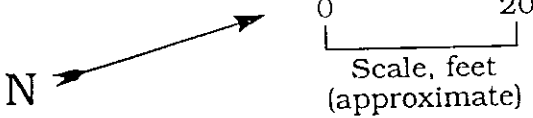
DS = drive sampler

Piping:

	depth	soil	odor	color
P1	~3'	clay	no	dk brn
P2	~3'	"	"	"
P3	~2.5'	"	"	"



Note: Depth to groundwater may be 10 to 15 feet.  
No utilities or wells on site.



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

DRAWN BY:	REVISED BY:
DATE:	APPROVED BY:

**SITE PLAN**

554 27th Street, Oakland

FIGURE 1

4 vent lines

Merrimack St.

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200  
Oakland, CA 94621  
(415) 271-4320

Hazardous Materials Inspection Form

p. 1 of 2

II, III

II.A B

II.B A1

Post-It™ brand fax transmittal memo 7671

1-17-95

# of pages 4

From J. Eberle

To Dusty/Charly

Co.

Phone #

Fax #

Site ID # \_\_\_\_\_ Site Name Schoonbrood former service station Date today's, 1/18, 95

Site Address 554-27th St.

City Oakland Zip 94612 Phone \_\_\_\_\_

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

Removal of 6K, 8K, 10K gasoline + 250-gal waste oil UST.

Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

III. UNDERGROUND TANKS (Title 23)

- |           |                            |             |
|-----------|----------------------------|-------------|
| General   | 1. Permit Application      | 25284 (H&S) |
|           | 2. Pipeline Leak Detection | 25292 (H&S) |
|           | 3. Records Maintenance     | 2712        |
|           | 4. Release Report          | 2651        |
|           | 5. Closure Plans           | 2670        |
|           | 6. Method                  |             |
|           | 1) Monthly Test            |             |
|           | 2) Daily Vadose            |             |
|           | Semi-annual groundwater    |             |
|           | One time soils             |             |
|           | 3) Daily Vadose            |             |
|           | One time soils             |             |
|           | Annual tank test           |             |
|           | 4) Monthly Groundwater     |             |
|           | One time soils             |             |
|           | 5) Daily Inventory         |             |
|           | Annual tank testing        |             |
|           | Cont pipe leak det         |             |
|           | Vadose/gndwater mon.       |             |
|           | 6) Daily Inventory         |             |
|           | Annual tank testing        |             |
|           | Cont pipe leak det         |             |
|           | 7) Weekly Tank Gauge       |             |
|           | Annual tank testing        |             |
|           | 8) Annual Tank Testing     |             |
|           | Daily Inventory            |             |
|           | 9) Other _____             |             |
|           | 7. Precip Tank Test        | 2643        |
|           | Date: _____                |             |
|           | 8. Inventory Rec.          | 2644        |
|           | 9. Soil Testing            | 2646        |
|           | 10. Ground Water           | 2647        |
| New Tanks | 11. Monitor Plan           | 2632        |
|           | 12. Access, Secure         | 2634        |
|           | 13. Plans Submit           | 2711        |
|           | Date: _____                |             |
|           | 14. As Built               | 2635        |
|           | Date: _____                |             |

2:00 arrived onsite

Comments:

Joan Schoonbrood onsite: said fuel USTs were probably last used in late 70's, by Mobil.

2:25 OPD not here, so we phoned them + left mess.

6K: O<sub>2</sub> 11%, LEL 0% Removed 6K UST: steel, rust on top half, sizable holes on end, also pitting.

8K: O<sub>2</sub> 20%, LEL 0%. Has 1000 lb dry ice

2:55 waste oil: O<sub>2</sub> 11%, LEL 4% Removal of w.oil UST: steel, rusted, hole on bottom leaking oily water; remote feed fill pipe heads toward bldg.

Dusty said they removed a few inches fuel fm USTs, + ~250 gal fm waste oil UST, which kept continued to refill. ~~Gas in~~ Water in w.o. pit at ~4' bgs. C. Kissick sampled the SP.

3:10 8K: 18% O<sub>2</sub> + 12% LEL. Removal of 8K UST - Manifest # 95206027 (6K + 250-gal waste oil) + # 95206023 (8K + 10K). steel, opening on seam (maybe made today), rust on top 1/2, no holes.

I advised Ms. Schoonbrood of safety factor w/ leaving open pits; homeless people are living onsite.

Contact: SCHOONBROOD

Title: \_\_\_\_\_

Signature: \_\_\_\_\_

Inspector: Jennifer Eberle

Signature: \_\_\_\_\_

II, III

15/1000

941-1914

white -env.health  
 yellow -facility  
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200  
 Oakland, CA 94621  
 (415) 271-4320

Hazardous Materials Inspection Form

p. 2 of 2

II, III

Site ID # \_\_\_\_\_ Site Name Schoonbrood home station Today's Date 1/18/95

Site Address 554-27th St  
 City Oakland Zip 94612 Phone \_\_\_\_\_

II.A BUSINESS PLANS (Title 19)

- \_\_\_ 1. Immediate Reporting 2703
- \_\_\_ 2. Bus. Plan Stas. 25503(b)
- \_\_\_ 3. RR Cars > 30 days 25503.7
- \_\_\_ 4. Inventory Information 25504(a)
- \_\_\_ 5. Inventory Complete 2730
- \_\_\_ 6. Emergency Response 25504(b)
- \_\_\_ 7. Training 25504(c)
- \_\_\_ 8. Deficiency 25505(a)
- \_\_\_ 9. Modification 25505(b)

II.B ACUTELY HAZ. MATLS

- \_\_\_ 10. Registration Form Filed 25533(a)
- \_\_\_ 11. Form Complete 25533(b)
- \_\_\_ 12. RMPP Contents 25534(c)
- \_\_\_ 13. Implement Sch. Req'd? (Y/N) \_\_\_\_\_
- \_\_\_ 14. OffSite Conseq. Assess. 25524(c)
- \_\_\_ 15. Probable Risk Assessment 25534(d)
- \_\_\_ 16. Persons Responsible 25534(g)
- \_\_\_ 17. Certification 25534(i)
- \_\_\_ 18. Exemption Request? (Y/N) \_\_\_\_\_
- \_\_\_ 19. Trade Secret Requested? 25538

\_\_\_ MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- \_\_\_ I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- \_\_\_ II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

\* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

Comments:

4:00 Vent lines are being left in place (see N side of bldg): Waiting for O<sub>2</sub> + LEL to go down in 10K UST. 4:25 Took water sample fm fuel pit. Water in w.oil pit has oil floating on it; we'll hand purge it tomorrow.

4:37 10K: 15%LEL + 9%O<sub>2</sub> 4:50 Removal of 10K UST steel, rust on top half, no obvious holes. gw mark ~1/3 way up fm the bottom of fuel USTs. Depth to gw in pit w/out USTs is ~11' bgs. Will sample soil tomorrow.

5:20 Finished loading UST, hauler is Erickson.

5:25 left site

III. UNDERGROUND TANKS (Title 23)

- |                               |                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------|
| General                       | ___ 1. Permit Application 25284 (H&S)                                             |
|                               | ___ 2. Pipeline Leak Detection 25292 (H&S)                                        |
|                               | ___ 3. Records Maintenance 2712                                                   |
|                               | ___ 4. Release Report 2651                                                        |
|                               | ___ 5. Closure Plans 2670                                                         |
| Monitoring for Existing Tanks | ___ 6. Method                                                                     |
|                               | 1) Monthly Test                                                                   |
|                               | 2) Daily Vadose Semi-annual groundwater One time soils                            |
|                               | 3) Daily Vadose One time soils Annual tank test                                   |
|                               | 4) Monthly Groundwater One time soils                                             |
|                               | 5) Daily Inventory Annual tank testing Cont pipe leak det Vadose/groundwater mon. |
|                               | 6) Daily Inventory Annual tank testing Cont pipe leak det                         |
|                               | 7) Weekly Tank Gauge Annual tank testing                                          |
|                               | 8) Annual Tank Testing Daily Inventory                                            |
|                               | 9) Other _____                                                                    |
| New Tanks                     | ___ 7. Precs Tank Test Date: _____ 2643                                           |
|                               | ___ 8. Inventory Rec. 2644                                                        |
|                               | ___ 9. Soil Testing 2646                                                          |
|                               | ___ 10. Ground Water. 2647                                                        |
|                               | ___ 11. Monitor Plan 2632                                                         |
|                               | ___ 12. Access, Secure 2634                                                       |
|                               | ___ 13. Plans Submit 2711                                                         |
|                               | Date: _____                                                                       |
|                               | ___ 14. As Built 2635                                                             |
|                               | Date: _____                                                                       |

Rev 6/88

Contact: SCHOONBROOD  
 Title: \_\_\_\_\_  
 Signature: [Signature]

Inspector: Jennifer Elberk  
 Signature: [Signature]

II, III

941  
 6-1-95

12-22-94  
 Post-It™ brand fax transmittal memo 7671 # of pages ▶ 4

To	C. Kissick	From	J. Eberle
Co.	We need the	Co.	Carbonless forms!
Dept.	(check #8 tank removed	Phone #	
Fax #	on B forms	Fax #	

OF CALIFORNIA  
 SOURCES CONTROL BOARD  
**UIC PERMIT APPLICATION - FORM A**  
 ONE SET FOR EACH FACILITY/SITE



5 CHANGE OF INFORMATION     7 PERMANENTLY CLOSED SITE  
 6 TEMPORARY SITE CLOSURE     8 tank removed

**I. FACILITY/SITE INFORMATION & ADDRESS - (MUST BE COMPLETED)**

DBA OR FACILITY NAME N/A (vacant lot)		NAME OF OPERATOR N/A	
ADDRESS 554 27th St.		NEAREST CROSS STREET Hwy 980	PARCEL # (OPTIONAL)
CITY NAME Oakland		STATE CA	ZIP CODE 94612
<input checked="" type="checkbox"/> BOX TO INDICATE <input type="checkbox"/> CORPORATION <input type="checkbox"/> INDIVIDUAL <input checked="" type="checkbox"/> PARTNERSHIP <input type="checkbox"/> LOCAL AGENCY DISTRICTS* <input type="checkbox"/> COUNTY AGENCY* <input type="checkbox"/> STATE AGENCY* <input type="checkbox"/> FEDERAL AGENCY*		SITE PHONE # WITH AREA CODE N/A	
* If owner of UST is a public agency, complete the following: name of Supervisor of division, section, or office which operates the UST			
TYPE OF BUSINESS <input checked="" type="checkbox"/> 1 GAS STATION <input type="checkbox"/> 2 DISTRIBUTOR <input type="checkbox"/> 3 FARM <input type="checkbox"/> 4 PROCESSOR <input type="checkbox"/> 5 OTHER		<input type="checkbox"/> IF INDIAN RESERVATION OR TRUST LANDS	# OF TANKS AT SITE 4 E. P. A. I. D. # (optional) CAL000928896

**EMERGENCY CONTACT PERSON (PRIMARY)**

**EMERGENCY CONTACT PERSON (SECONDARY) - optional**

DAYS: NAME (LAST, FIRST) Kissick, Charles	PHONE # WITH AREA CODE (510) 820-3224	DAYS: NAME (LAST, FIRST)	PHONE # WITH AREA CODE
NIGHTS: NAME (LAST, FIRST) Kissick, Charles	PHONE # WITH AREA CODE (415) 285-8756	NIGHTS: NAME (LAST, FIRST)	PHONE # WITH AREA CODE

**II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)**

NAME Gloria Joan Schoonbrood	CARE OF ADDRESS INFORMATION		
MAILING OR STREET ADDRESS PO Box 7442	<input checked="" type="checkbox"/> box to indicate <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> STATE AGENCY <input type="checkbox"/> CORPORATION <input checked="" type="checkbox"/> PARTNERSHIP <input type="checkbox"/> COUNTY AGENCY <input type="checkbox"/> FEDERAL AGENCY		
CITY NAME Menlo Park	STATE CA	ZIP CODE 94025	PHONE # WITH AREA CODE (415) 233-0310

**III. TANK OWNER INFORMATION - (MUST BE COMPLETED)**

NAME OF OWNER Gloria Joan Schoonbrood	CARE OF ADDRESS INFORMATION		
MAILING OR STREET ADDRESS PO Box 7442	<input checked="" type="checkbox"/> box to indicate <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> STATE AGENCY <input type="checkbox"/> CORPORATION <input checked="" type="checkbox"/> PARTNERSHIP <input type="checkbox"/> COUNTY AGENCY <input type="checkbox"/> FEDERAL AGENCY		
CITY NAME Menlo Park	STATE CA	ZIP CODE 94025	PHONE # WITH AREA CODE (415) 233-0310

**IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER - Call (916) 322-9669 if questions arise.**

TY(TK) HQ 44-036539

**V. PETROLEUM UST FINANCIAL RESPONSIBILITY - (MUST BE COMPLETED) - IDENTIFY THE METHOD(S) USED**

box to indicate     1 SELF-INSURED     2 GUARANTEE     3 INSURANCE     4 SURETY BOND  
 5 LETTER OF CREDIT     6 EXEMPTION     99 OTHER

**VI. LEGAL NOTIFICATION AND BILLING ADDRESS** Legal notification and billing will be sent to the tank owner unless box I or II is checked.

CHECK ONE BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR LEGAL NOTIFICATIONS AND BILLING: I.  II.  III.

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

OWNER'S NAME (PRINTED & SIGNED) Charles Kissick, for J. Schoonbrood <i>Ch Kiss</i>	OWNER'S TITLE Senior Geologist	DATE MONTH/DAY/YEAR 12/14/94
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**LOCAL AGENCY USE ONLY**

COUNTY # 	JURISDICTION # 	FACILITY # 
LOCATION CODE - OPTIONAL	CENSUS TRACT # - OPTIONAL	SUPVISOR - DISTRICT CODE - OPTIONAL

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE PERMIT APPLICATION - FORM B, UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY.  
 OWNER MUST FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

STATE OF CALIFORNIA  
STATE WATER RESOURCES CONTROL BOARD  
**UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B**



COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM

MARK ONLY - ONE ITEM	<input checked="" type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input type="checkbox"/> 7 PERMANENTLY CLOSED ON SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY TANK CLOSURE	<input checked="" type="checkbox"/> 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: N/A (vacant lot) at 554 27th St., Oakland

**I. TANK DESCRIPTION** COMPLETE ALL ITEMS - SPECIFY IF UNKNOWN

A. OWNER'S TANK I.D. # <u>N/A</u>	B. MANUFACTURED BY: <u>unknown</u>
C. DATE INSTALLED (MO/DAY/YEAR) <u>unknown</u>	D. TANK CAPACITY IN GALLONS: <u>250</u>

**II. TANK CONTENTS** IF A-1 IS MARKED, COMPLETE ITEM C.

A. <input type="checkbox"/> 1 MOTOR VEHICLE FUEL	<input checked="" type="checkbox"/> 4 OIL	B. <input type="checkbox"/> 1 PRODUCT	C. <input type="checkbox"/> 1a REGULAR UNLEADED	<input type="checkbox"/> 3 DIESEL	<input type="checkbox"/> 6 AVIATION GAS
<input type="checkbox"/> 2 PETROLEUM	<input type="checkbox"/> 80 EMPTY	<input checked="" type="checkbox"/> 2 WASTE	<input type="checkbox"/> 1b PREMIUM UNLEADED	<input type="checkbox"/> 4 GASAHOL	<input type="checkbox"/> 7 METHANOL
<input type="checkbox"/> 3 CHEMICAL PRODUCT	<input type="checkbox"/> 95 UNKNOWN		<input type="checkbox"/> 2 LEADED	<input checked="" type="checkbox"/> 5 JET FUEL	
D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED <u>waste oil</u>				C. A. S. #:	

**III. TANK CONSTRUCTION** MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D AND E

A. TYPE OF SYSTEM	<input type="checkbox"/> 1 DOUBLE WALL	<input type="checkbox"/> 3 SINGLE WALL WITH EXTERIOR LINER	<input type="checkbox"/> 95 UNKNOWN
	<input checked="" type="checkbox"/> 2 SINGLE WALL	<input type="checkbox"/> 4 SECONDARY CONTAINMENT (VAULTED TANK)	<input type="checkbox"/> 99 OTHER
B. TANK MATERIAL (Primary Tank)	<input checked="" type="checkbox"/> 1 BARE STEEL	<input type="checkbox"/> 2 STAINLESS STEEL	<input type="checkbox"/> 3 FIBERGLASS
	<input type="checkbox"/> 5 CONCRETE	<input type="checkbox"/> 6 POLYVINYL CHLORIDE	<input type="checkbox"/> 7 ALUMINUM
	<input type="checkbox"/> 9 BRONZE	<input type="checkbox"/> 10 GALVANIZED STEEL	<input type="checkbox"/> 95 UNKNOWN
C. INTERIOR LINING	<input type="checkbox"/> 1 RUBBER LINED	<input type="checkbox"/> 2 ALKYD LINING	<input type="checkbox"/> 3 EPOXY LINING
	<input type="checkbox"/> 5 GLASS LINING	<input checked="" type="checkbox"/> 6 UNLINED	<input type="checkbox"/> 4 PHENOLIC LINING
	IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___		
D. CORROSION PROTECTION	<input type="checkbox"/> 1 POLYETHYLENE WRAP	<input type="checkbox"/> 2 COATING	<input type="checkbox"/> 3 VINYL WRAP
	<input type="checkbox"/> 5 CATHODIC PROTECTION	<input checked="" type="checkbox"/> 91 NONE	<input type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC
		<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER
E. SPILL AND OVERFILL	SPILL CONTAINMENT INSTALLED (YEAR) <u>unknown</u>		OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) <u>unknown</u>

**IV. PIPING INFORMATION** CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE	A U 1 SUCTION	A U 2 PRESSURE	A <u>U</u> 3 GRAVITY	A U 99 OTHER
B. CONSTRUCTION	A <u>U</u> 1 SINGLE WALL	A U 2 DOUBLE WALL	A U 3 LINED TRENCH	A U 95 UNKNOWN
				A U 99 OTHER
C. MATERIAL AND CORROSION PROTECTION	A <u>U</u> 1 BARE STEEL	A U 2 STAINLESS STEEL	A U 3 POLYVINYL CHLORIDE (PVC)	A U 4 FIBERGLASS PIPE
	A U 5 ALUMINUM	A U 6 CONCRETE	A U 7 STEEL W/ COATING	A U 8 100% METHANOL COMPATIBLE W/FRP
	A U 9 GALVANIZED STEEL	A U 10 CATHODIC PROTECTION	A U 95 UNKNOWN	A U 99 OTHER
D. LEAK DETECTION	<input type="checkbox"/> 1 AUTOMATIC LINE LEAK DETECTOR	<input type="checkbox"/> 2 LINE TIGHTNESS TESTING	<input type="checkbox"/> 3 INTERSTITIAL MONITORING	<input type="checkbox"/> 99 OTHER <u>none</u>

**V. TANK LEAK DETECTION**

<input type="checkbox"/> 1 VISUAL CHECK	<input type="checkbox"/> 2 INVENTORY RECONCILIATION	<input type="checkbox"/> 3 VADOZE MONITORING	<input type="checkbox"/> 4 AUTOMATIC TANK GAUGING	<input type="checkbox"/> 5 GROUND WATER MONITORING
<input type="checkbox"/> 6 TANK TESTING	<input type="checkbox"/> 7 INTERSTITIAL MONITORING	<input checked="" type="checkbox"/> 91 NONE	<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER

**VI. TANK CLOSURE INFORMATION**

1. ESTIMATED DATE LAST USED (MO/DAY/YR) <u>late 1980's</u>	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING <u>unknown</u> GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
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THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME (PRINTED & SIGNATURE) <u>Charles Kissick</u>	DATE <u>12/14/94</u>
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**LOCAL AGENCY USE ONLY** THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATE I.D.#	COUNTY #	JURISDICTION #	FACILITY #	TANK #
PERMIT NUMBER	PERMIT APPROVED BY/DATE	PERMIT EXPIRATION DATE		

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED.  
FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS



UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B

COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM	<input checked="" type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input type="checkbox"/> 7 PERMANENTLY CLOSED ON SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY TANK CLOSURE	<input type="checkbox"/> 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: vacant lot at 534 27th St, Oakland

I. TANK DESCRIPTION COMPLETE ALL ITEMS - SPECIFY IF UNKNOWN

A. OWNER'S TANK I.D.# <u>N/A</u>	B. MANUFACTURED BY: <u>unknown</u>
C. DATE INSTALLED (MO/DAY/YEAR) <u>unknown</u>	D. TANK CAPACITY IN GALLONS: <u>6000</u>

II. TANK CONTENTS IFA-1 IS MARKED, COMPLETE ITEM C.

A. <input checked="" type="checkbox"/> 1 MOTOR VEHICLE FUEL	<input type="checkbox"/> 4 OIL	B. <input checked="" type="checkbox"/> 1 PRODUCT	C. <input type="checkbox"/> 1a REGULAR UNLEADED	<input type="checkbox"/> 3 DIESEL	<input type="checkbox"/> 6 AVIATION GAS
<input type="checkbox"/> 2 PETROLEUM	<input type="checkbox"/> 80 EMPTY	<input type="checkbox"/> 2 WASTE	<input type="checkbox"/> 1b PREMIUM UNLEADED	<input type="checkbox"/> 4 GASAHOL	<input type="checkbox"/> 7 METHANOL
<input type="checkbox"/> 3 CHEMICAL PRODUCT	<input type="checkbox"/> 95 UNKNOWN		<input type="checkbox"/> 2 LEADED	<input checked="" type="checkbox"/> 99 OTHER (DESCRIBE IN ITEM D. BELOW)	

D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED Gasoline, type unknown C. A. S. #:

III. TANK CONSTRUCTION MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D AND E

A. TYPE OF SYSTEM	<input type="checkbox"/> 1 DOUBLE WALL	<input type="checkbox"/> 3 SINGLE WALL WITH EXTERIOR LINER	<input type="checkbox"/> 95 UNKNOWN
	<input checked="" type="checkbox"/> 2 SINGLE WALL	<input type="checkbox"/> 4 SECONDARY CONTAINMENT (VAULTED TANK)	<input type="checkbox"/> 99 OTHER
B. TANK MATERIAL (Primary Tank)	<input checked="" type="checkbox"/> 1 BARE STEEL	<input type="checkbox"/> 2 STAINLESS STEEL	<input type="checkbox"/> 3 FIBERGLASS
	<input type="checkbox"/> 5 CONCRETE	<input type="checkbox"/> 6 POLYVINYL CHLORIDE	<input type="checkbox"/> 7 ALUMINUM
	<input type="checkbox"/> 9 BRONZE	<input type="checkbox"/> 10 GALVANIZED STEEL	<input type="checkbox"/> 95 UNKNOWN
	<input type="checkbox"/> 4 STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC	<input type="checkbox"/> 8 100% METHANOL COMPATIBLE W/FRP	<input type="checkbox"/> 99 OTHER
C. INTERIOR LINING	<input type="checkbox"/> 1 RUBBER LINED	<input type="checkbox"/> 2 ALKYD LINING	<input type="checkbox"/> 3 EPOXY LINING
	<input type="checkbox"/> 5 GLASS LINING	<input checked="" type="checkbox"/> 6 UNLINED	<input type="checkbox"/> 95 UNKNOWN
	<input type="checkbox"/> 4 PHENOLIC LINING	<input type="checkbox"/> 99 OTHER	
	IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___		
D. CORROSION PROTECTION	<input type="checkbox"/> 1 POLYETHYLENE WRAP	<input type="checkbox"/> 2 COATING	<input type="checkbox"/> 3 VINYL WRAP
	<input type="checkbox"/> 5 CATHODIC PROTECTION	<input checked="" type="checkbox"/> 91 NONE	<input type="checkbox"/> 95 UNKNOWN
	<input type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC	<input type="checkbox"/> 99 OTHER	
E. SPILL AND OVERFILL	SPILL CONTAINMENT INSTALLED (YEAR) <u>unknown</u>		OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) <u>unknown</u>

IV. PIPING INFORMATION CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE	A U 1 SUCTION	A U 2 PRESSURE	A (U) 3 GRAVITY	A U 99 OTHER
B. CONSTRUCTION	A (U) 1 SINGLE WALL	A U 2 DOUBLE WALL	A U 3 LINED TRENCH	A U 95 UNKNOWN
	A U 99 OTHER			
C. MATERIAL AND CORROSION PROTECTION	A (U) 1 BARE STEEL	A U 2 STAINLESS STEEL	A U 3 POLYVINYL CHLORIDE (PVC)	A U 4 FIBERGLASS PIPE
	A U 5 ALUMINUM	A U 6 CONCRETE	A U 7 STEEL W/ COATING	A U 8 100% METHANOL COMPATIBLE W/FRP
	A U 9 GALVANIZED STEEL	A U 10 CATHODIC PROTECTION	A U 95 UNKNOWN	A U 99 OTHER
D. LEAK DETECTION	<input type="checkbox"/> 1 AUTOMATIC LINE LEAK DETECTOR	<input type="checkbox"/> 2 LINE TIGHTNESS TESTING	<input type="checkbox"/> 3 INTERSTITIAL MONITORING	<input type="checkbox"/> 99 OTHER <u>none</u>

V. TANK LEAK DETECTION

<input type="checkbox"/> 1 VISUAL CHECK	<input type="checkbox"/> 2 INVENTORY RECONCILIATION	<input type="checkbox"/> 3 VADOZE MONITORING	<input type="checkbox"/> 4 AUTOMATIC TANK GAUGING	<input type="checkbox"/> 5 GROUND WATER MONITORING
<input type="checkbox"/> 6 TANK TESTING	<input type="checkbox"/> 7 INTERSTITIAL MONITORING	<input checked="" type="checkbox"/> 91 NONE	<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER

VI. TANK CLOSURE INFORMATION

1. ESTIMATED DATE LAST USED (MO/DAY/YR) <u>unknown (pre-1970's)</u>	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING <u>unknown</u> GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
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THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME (PRINTED & SIGNATURE) <u>Charles Kissick</u>	DATE <u>12/14/94</u>
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LOCAL AGENCY USE ONLY THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATE I.D.#	COUNTY #	JURISDICTION #	FACILITY #	TANK #
PERMIT NUMBER	PERMIT APPROVED BY/DATE	PERMIT EXPIRATION DATE		

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED.  
FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

STATE OF CALIFORNIA  
STATE WATER RESOURCES CONTROL BOARD  
**UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B**



PENALTY  
\$1000

COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM <input checked="" type="checkbox"/> 1 NEW PERMIT <input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT <input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION <input type="checkbox"/> 6 TEMPORARY TANK CLOSURE	<input type="checkbox"/> 7 PERMANENTLY CLOSED ON SITE <input type="checkbox"/> 8 TANK REMOVED
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DBA OR FACILITY NAME WHERE TANK IS INSTALLED: vacant lot at 554 27th St, Oakland

**I. TANK DESCRIPTION** COMPLETE ALL ITEMS - SPECIFY IF UNKNOWN

A. OWNER'S TANK I.D.# <u>N/A</u>	B. MANUFACTURED BY: <u>unknown</u>
C. DATE INSTALLED (MO/DAY/YEAR) <u>unknown</u>	D. TANK CAPACITY IN GALLONS: <u>8000</u>

**II. TANK CONTENTS** IF A-1 IS MARKED, COMPLETE ITEM C.

A. <input checked="" type="checkbox"/> 1 MOTOR VEHICLE FUEL <input type="checkbox"/> 2 PETROLEUM <input type="checkbox"/> 3 CHEMICAL PRODUCT	<input type="checkbox"/> 4 OIL <input type="checkbox"/> 80 EMPTY <input type="checkbox"/> 95 UNKNOWN	B. <input checked="" type="checkbox"/> 1 PRODUCT <input type="checkbox"/> 2 WASTE
C. <input type="checkbox"/> 1a REGULAR UNLEADED <input type="checkbox"/> 1b PREMIUM UNLEADED <input type="checkbox"/> 2 LEADED		
<input type="checkbox"/> 3 DIESEL <input type="checkbox"/> 4 GASAHOL <input type="checkbox"/> 5 JET FUEL <input checked="" type="checkbox"/> 99 OTHER (DESCRIBE IN ITEM D. BELOW)		
D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED <u>Gasoline, type unknown</u>		C. A. S. #:

**III. TANK CONSTRUCTION** MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D AND E

A. TYPE OF SYSTEM <input type="checkbox"/> 1 DOUBLE WALL <input checked="" type="checkbox"/> 2 SINGLE WALL	<input type="checkbox"/> 3 SINGLE WALL WITH EXTERIOR LINER <input type="checkbox"/> 4 SECONDARY CONTAINMENT (VAULTED TANK)	<input type="checkbox"/> 95 UNKNOWN <input type="checkbox"/> 99 OTHER
B. TANK MATERIAL (Primary Tank) <input checked="" type="checkbox"/> 1 BARE STEEL <input type="checkbox"/> 5 CONCRETE <input type="checkbox"/> 9 BRONZE	<input type="checkbox"/> 2 STAINLESS STEEL <input type="checkbox"/> 6 POLYVINYL CHLORIDE <input type="checkbox"/> 10 GALVANIZED STEEL	<input type="checkbox"/> 3 FIBERGLASS <input type="checkbox"/> 7 ALUMINUM <input type="checkbox"/> 95 UNKNOWN <input type="checkbox"/> 99 OTHER
C. INTERIOR LINING <input type="checkbox"/> 1 RUBBER LINED <input type="checkbox"/> 5 GLASS LINING	<input type="checkbox"/> 2 ALKYD LINING <input checked="" type="checkbox"/> 6 UNLINED	<input type="checkbox"/> 3 EPOXY LINING <input type="checkbox"/> 95 UNKNOWN <input type="checkbox"/> 4 PHENOLIC LINING <input type="checkbox"/> 99 OTHER
IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___		
D. CORROSION PROTECTION <input type="checkbox"/> 1 POLYETHYLENE WRAP <input type="checkbox"/> 5 CATHODIC PROTECTION	<input type="checkbox"/> 2 COATING <input checked="" type="checkbox"/> 91 NONE	<input type="checkbox"/> 3 VINYL WRAP <input type="checkbox"/> 95 UNKNOWN <input type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC <input type="checkbox"/> 99 OTHER
E. SPILL AND OVERFILL SPILL CONTAINMENT INSTALLED (YEAR) <u>unknown</u> OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) <u>unknown</u>		

**IV. PIPING INFORMATION** CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE	A U 1 SUCTION	A U 2 PRESSURE	A <u>U</u> 3 GRAVITY	A U 99 OTHER
B. CONSTRUCTION	A <u>U</u> 1 SINGLE WALL	A U 2 DOUBLE WALL	A U 3 LINED TRENCH	A U 95 UNKNOWN A U 99 OTHER
C. MATERIAL AND CORROSION PROTECTION	A <u>U</u> 1 BARE STEEL	A U 2 STAINLESS STEEL	A U 3 POLYVINYL CHLORIDE (PVC)	A U 4 FIBERGLASS PIPE
	A U 5 ALUMINUM	A U 6 CONCRETE	A U 7 STEEL W/ COATING	A U 8 100% METHANOL COMPATIBLE W/FRP
	A U 9 GALVANIZED STEEL	A U 10 CATHODIC PROTECTION	A U 95 UNKNOWN	A U 99 OTHER
D. LEAK DETECTION	<input type="checkbox"/> 1 AUTOMATIC LINE LEAK DETECTOR	<input type="checkbox"/> 2 LINE TIGHTNESS TESTING	<input type="checkbox"/> 3 INTERSTITIAL MONITORING	<input type="checkbox"/> 99 OTHER <u>NONE</u>

**V. TANK LEAK DETECTION**

<input type="checkbox"/> 1 VISUAL CHECK	<input type="checkbox"/> 2 INVENTORY RECONCILIATION	<input type="checkbox"/> 3 VADOZE MONITORING	<input type="checkbox"/> 4 AUTOMATIC TANK GAUGING	<input type="checkbox"/> 5 GROUND WATER MONITORING
<input type="checkbox"/> 6 TANK TESTING	<input type="checkbox"/> 7 INTERSTITIAL MONITORING	<input checked="" type="checkbox"/> 91 NONE	<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER

**VI. TANK CLOSURE INFORMATION**

1. ESTIMATED DATE LAST USED (MO/DAY/YR) <u>unknown (pre-1970's)</u>	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING <u>unknown</u> GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
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THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME (PRINTED & SIGNATURE) <u>Charles Kissick</u> <u>Clu Kiel</u>	DATE <u>12/14/94</u>
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**LOCAL AGENCY USE ONLY** THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATE I.D.#	COUNTY #	JURISDICTION #	FACILITY #	TANK #
PERMIT NUMBER	PERMIT APPROVED BY/DATE		PERMIT EXPIRATION DATE	

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED.  
FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS



STATE OF CALIFORNIA  
STATE WATER RESOURCES CONTROL BOARD  
**UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B**



COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM

MARK ONLY ONE ITEM	<input checked="" type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input type="checkbox"/> 6 TEMPORARY TANK CLOSURE	<input type="checkbox"/> 7 PERMANENTLY CLOSED ON SITE	<input type="checkbox"/> 8 TANK REMOVED
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DBA OR FACILITY NAME WHERE TANK IS INSTALLED: vacant lot, 557 27th St, Oakland

**I. TANK DESCRIPTION** COMPLETE ALL ITEMS - SPECIFY IF UNKNOWN

A. OWNER'S TANK I.D.# <u>N/A</u>	B. MANUFACTURED BY: <u>unknown</u>
C. DATE INSTALLED (MO/DAY/YEAR) <u>unknown</u>	D. TANK CAPACITY IN GALLONS: <u>10,000</u>

**II. TANK CONTENTS** IF A-1 IS MARKED, COMPLETE ITEM C.

A. <input checked="" type="checkbox"/> 1 MOTOR VEHICLE FUEL	<input type="checkbox"/> 4 OIL	B. <input checked="" type="checkbox"/> 1 PRODUCT	C. <input type="checkbox"/> 1a REGULAR UNLEADED	<input type="checkbox"/> 3 DIESEL	<input type="checkbox"/> 6 AVIATION GAS
<input type="checkbox"/> 2 PETROLEUM	<input type="checkbox"/> 80 EMPTY	<input type="checkbox"/> 2 WASTE	<input type="checkbox"/> 1b PREMIUM UNLEADED	<input type="checkbox"/> 4 GASAHOL	<input type="checkbox"/> 7 METHANOL
<input type="checkbox"/> 3 CHEMICAL PRODUCT	<input type="checkbox"/> 95 UNKNOWN		<input type="checkbox"/> 2 LEADED	<input checked="" type="checkbox"/> 99 OTHER (DESCRIBE IN ITEM D. BELOW)	

D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED Gasoline, type unknown C. A. S. #:

**III. TANK CONSTRUCTION** MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D AND E

A. TYPE OF SYSTEM	<input type="checkbox"/> 1 DOUBLE WALL	<input type="checkbox"/> 3 SINGLE WALL WITH EXTERIOR LINER	<input type="checkbox"/> 95 UNKNOWN
	<input checked="" type="checkbox"/> 2 SINGLE WALL	<input type="checkbox"/> 4 SECONDARY CONTAINMENT (VAULTED TANK)	<input type="checkbox"/> 99 OTHER

B. TANK MATERIAL (Primary Tank)	<input checked="" type="checkbox"/> 1 BARE STEEL	<input type="checkbox"/> 2 STAINLESS STEEL	<input type="checkbox"/> 3 FIBERGLASS	<input type="checkbox"/> 4 STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC
	<input type="checkbox"/> 5 CONCRETE	<input type="checkbox"/> 6 POLYVINYL CHLORIDE	<input type="checkbox"/> 7 ALUMINUM	<input type="checkbox"/> 8 100% METHANOL COMPATIBLE W/FRP
	<input type="checkbox"/> 9 BRONZE	<input type="checkbox"/> 10 GALVANIZED STEEL	<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER

C. INTERIOR LINING	<input type="checkbox"/> 1 RUBBER LINED	<input type="checkbox"/> 2 ALKYD LINING	<input type="checkbox"/> 3 EPOXY LINING	<input type="checkbox"/> 4 PHENOLIC LINING
	<input type="checkbox"/> 5 GLASS LINING	<input checked="" type="checkbox"/> 6 UNLINED	<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER

IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES \_\_\_ NO \_\_\_

D. CORROSION PROTECTION	<input type="checkbox"/> 1 POLYETHYLENE WRAP	<input type="checkbox"/> 2 COATING	<input type="checkbox"/> 3 VINYL WRAP	<input type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC
	<input type="checkbox"/> 5 CATHODIC PROTECTION	<input checked="" type="checkbox"/> 91 NONE	<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER

E. SPILL AND OVERFILL SPILL CONTAINMENT INSTALLED (YEAR) unknown OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) unknown

**IV. PIPING INFORMATION** CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE	A U 1 SUCTION	A U 2 PRESSURE	A (U) 3 GRAVITY	A U 99 OTHER
B. CONSTRUCTION	A (U) 1 SINGLE WALL	A U 2 DOUBLE WALL	A U 3 LINED TRENCH	A U 95 UNKNOWN A U 99 OTHER
C. MATERIAL AND CORROSION PROTECTION	A (U) 1 BARE STEEL	A U 2 STAINLESS STEEL	A U 3 POLYVINYL CHLORIDE (PVC)	A U 4 FIBERGLASS PIPE
	A U 5 ALUMINUM	A U 6 CONCRETE	A U 7 STEEL W/ COATING	A U 8 100% METHANOL COMPATIBLE W/FRP
	A U 9 GALVANIZED STEEL	A U 10 CATHODIC PROTECTION	A U 95 UNKNOWN	A U 99 OTHER

D. LEAK DETECTION  1 AUTOMATIC LINE LEAK DETECTOR  2 LINE TIGHTNESS TESTING  3 INTERSTITIAL MONITORING  99 OTHER none

**V. TANK LEAK DETECTION**

<input type="checkbox"/> 1 VISUAL CHECK	<input type="checkbox"/> 2 INVENTORY RECONCILIATION	<input type="checkbox"/> 3 VADOZE MONITORING	<input type="checkbox"/> 4 AUTOMATIC TANK GAUGING	<input type="checkbox"/> 5 GROUND WATER MONITORING
<input type="checkbox"/> 6 TANK TESTING	<input type="checkbox"/> 7 INTERSTITIAL MONITORING	<input checked="" type="checkbox"/> 91 NONE	<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER

**VI. TANK CLOSURE INFORMATION**

1. ESTIMATED DATE LAST USED (MO/DAY/YR) <u>unknown (pre-1970's)</u>	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING <u>unknown</u> GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
------------------------------------------------------------------------	---------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME (PRINTED & SIGNATURE) <u>Charles Kissick</u> <u>Chv Kiss</u>	DATE <u>12/14/94</u>
-------------------------------------------------------------------------------	----------------------

**LOCAL AGENCY USE ONLY** THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATE I.D.#	COUNTY #	JURISDICTION #	FACILITY #	TANK #
PERMIT NUMBER	PERMIT APPROVED BY/DATE		PERMIT EXPIRATION DATE	

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED.  
FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

**ALL ENVIRONMENTAL, INC.**  
 2641 CROW CANYON BLVD., SUITE 5  
 SAN RAMON, CA 94583  
 (510) 820-3224  
 FAX: 838-2687

FAX TRANSMITTAL SHEET

TO: Jennifer Eberle

FAX NUMBER: ~~415 838 2687~~ 337 9335

FROM: Jennifer Anderson

MESSAGE: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

DATE: 12/15

NO. OF PAGES (including cover page): 2

# ALL ENVIRONMENTAL, INC.

*Environmental Engineering & Construction*

---

December 15, 1994

*M -  
is this ok?*

Jennifer Iberle  
Alameda County Health  
Services Department  
1131 Harbor Bay Parkway  
Suite 250  
Alameda, CA 94502

*Jen.*

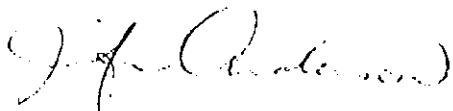
*15 ppm alk level*

Dear Jennifer:

We currently use a GasTech Tank-Techtor portable tank tester to monitor the lower explosion limit (LEL), oxygen concentration and PPM range. The serial number of the monitor is 9250414.

If you have any questions regarding the monitor or if you require further information, please do not hesitate to call me at (510) 820-3224.

Sincerely,  
All Environmental, Inc.



Jennifer Anderson  
Project Geologist

---

Corporate Headquarters:

2641 Crow Canyon Rd., #5  
San Ramon, CA 94583  
(510) 820-3224

Los Angeles Office:

6031 Pacific Coast Hwy., #178  
Torrance, CA 90505  
(310) 328-8878

ALAMEDA COUNTY HEALTH CARE SERVICES  
DEPARTMENT OF ENVIRONMENTAL HEALTH  
HAZARDOUS MATERIALS DIVISION  
80 SWAN WAY, ROOM 200  
OAKLAND, CA 94621  
PHONE NO. 510/271-4320

ya

J. Eberle

1/10/92

Eberle 12-15-94

see notes on p 5

H+S action level is 15ppm (upgrade to C)

UNDERGROUND TANK CLOSURE PLAN

\* \* \* Complete according to attached instructions \* \* \*

1. Business Name N/A (vacant building)  
Business Owner N/A
  2. Site Address 554 27th St.  
City Oakland, CA Zip 94612 ✓ Phone N/A
  3. Mailing Address Joan Schoonbrood  
City PO Box 7442, Menlo Park Zip 94025 <sup>6</sup> Phone (415) 233-0310
  4. Land Owner Joan Schoonbrood, Angela Barbagelata 15 San Lorenzo Way  
SF 94127  
Address PO Box 7442, Menlo Pk city, State CA Zip 94025 <sup>6</sup>
  5. Generator name under which tank will be manifested \_\_\_\_\_  
Joan Schoonbrood
- EPA I.D. No. under which tank will be manifested CAC000928896

unknown last tank operator

A+B forms  
PID or OVM?

6. Contractor All Environmental, Inc. *checked 12-14-94*  
*current + active*  
Address 2641 Crow Canyon Rd., Ste. 5 *corp. exp. 9-30-96*  
City San Ramon, CA 94583 *Contra Costa Co.* Phone (510) 820-3224  
License Type A-Haz., Asbestos ID# 654919

\*Effective January 1, 1992, Business and Professional Code Section 7058.7 requires prime contractors to also hold Hazardous Waste Certification issued by the State Contractors License Board. Indicate that the certificate has been received, in addition, to holding the appropriate contractors license type.

7. Consultant All Environmental, Inc.  
Address 2641 Crow Canyon Rd., Ste. 5  
City San Ramon, CA 94583 Phone (510) 820-3224

8. Contact Person for Investigation  
Name Charles Kissick Title Senior Geologist  
Phone (510) 820-3224

9. Number of tanks being closed under this plan 4  
Length of piping being removed under this plan approx. 40'  
Total number of tanks at facility 4

10. State Registered Hazardous Waste Transporters/Facilities (see instructions).

\*\* Underground tanks are hazardous waste and must be handled \*\*  
as hazardous waste

a) Product/Residual Sludge/Rinsate Transporter

Name Waste Oil recovery EPA I.D. No. CAD000626515  
Hauler License No. 0843 License Exp. Date 7/95  
Address 6401 Leona Street  
City Oakland State CA Zip 94605

b) Product/Residual Sludge/Rinsate Disposal Site

Name Demeeno Kerdoon EPA I.D. No. CAT 080013352  
Address 2000 N. Alameda  
City Compton State CA Zip \_\_\_\_\_

c) Tank and Piping Transporter

Name Erickson, Inc. EPA I.D. No. CAD0009466392  
Hauler License No. 019 License Exp. Date 7/95  
Address 255 Parr Blvd.  
City Richmond State CA Zip 94801

d) Tank and Piping Disposal Site

Name Erickson, Inc. EPA I.D. No. CAD0009466392  
Address 255 Parr-Blvd.  
City Richmond State CA Zip 94801

11. Experienced Sample Collector

Name Charles Kissick  
Company All Environmental, Inc.  
Address 2641 Crow Canyon Rd., Ste. 5  
City San Ramon State CA Zip 94583 Phone (510) 820-3224

12. Laboratory

Name Priority Environmental Labs  
Address 1764 Houret Ct.  
City Milpitas State CA Zip 95035  
State Certification No. 1708

13. Have tanks or pipes leaked in the past? Yes [ ] No []

If yes, describe. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

14. Describe methods to be used for rendering tank inert

Place 1.5 pounds dry ice per 100 gallons tank capacity.

Before tanks are pumped out and inerted, all associated piping must be flushed out into the tanks. All accessible associated piping must then be removed. Inaccessible piping must be plugged.

The Bay Area Air Quality Management District (771-6000), along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of explosion proof combustible gas meters to verify tank inertness. It is the contractor's responsibility to bring a working combustible gas meter on site to verify tank inertness.

15. Tank History and Sampling Information

Tank		Material to be sampled (tank contents, soil, ground-water, etc.)	Location and Depth of Samples.
Capacity (gallons)	Use History (see instructions)		
500	Waste Oil: install. date unknown; last used in late '80's.	Soil and, if encountered, groundwater.	1 sample from beneath center, 2' deep. <i>below UST</i>
6000	Gasoline: install. unknown; last time used unknown, but before 1977.	"	2 samples from each end, 2' deep. <i>below UST</i>
8000	"	"	"
10,000	"	"	Same as above, with 3rd sample from center. ✓

One soil sample must be collected for every 20 feet of piping that is removed. A ground water sample must be collected should any ground water be present in the excavation.

Soil samples will also be taken along piping, and at each dispenser island. ✓

Excavated/Stockpiled Soil	
Stockpiled Soil Volume (Estimated)	<i>discrete Sampling Plan</i> <i>1 per 20 yd<sup>3</sup> for reuse onsite</i>
200 yards	Gasoline - 16 composite samples <i>100 yd<sup>3</sup></i>
10 yards	Waste Oil - 1 sample <i>150 yd<sup>3</sup></i> <i>4-4 pt. comp.</i>

Stockpiled soil must be placed on bermed plastic and must be completely covered by plastic sheeting.

16. Chemical methods and associated detection limits to be used for analyzing samples

The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits should be followed. See attached Table 2.

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Method Number	Method Detection Limit
TPH-Gas	5030	8015	1 ppm
BTEX		8020	5 ppm
TPH-Dies.	3550	8015	1 ppm
Tot. Lead		AA	0.5 ppm
Oil & Grease	5520	<del>E&amp;F</del> <i>E+F in soil</i> <i>B+F in water</i>	0.5 ppm
Chl. Hydro.		8010	5 ppb
LUFT Metals			
Cadmium		7130	0.1 ppm
Chromium		7190	0.5 ppm
Lead		7420	0.5 ppm
Nickel		7520	0.5 ppm
Zinc		7950	0.5 ppm

17. Submit Site Health and Safety Plan (See Instructions)



18. Submit Worker's Compensation Certificate copy

Name of Insurer State Fund

19. Submit Plot Plan (See Instructions)

20. Enclose Deposit (See Instructions)

21. Report any leaks or contamination to this office within 5 days of discovery. The report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report form. (see Instructions)

22. Submit a closure report to this office within 60 days of the tank removal. This report must contain all the information listed in item 22 of the instructions.

I declare that to the best of my knowledge and belief the statements and information provided above are correct and true.

I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections.

Signature of Contractor

Name (please type) Charles Kissick, All Environmental, Inc

Signature Ch Kiss

Date 12/1/94

Signature of Site Owner or Operator

Name (please type) Angela Barbagelata - Joan Schoonbrood

Signature Angela Barbagelata 15 San Leronzo Way  
San Francisco CA 94127

Date 12/1/94  
Joan Schoonbrood - P.O. Box 7442  
MENLO PARK CA 94026

Joan

On-Ramp to 980 →

27th Street

Sidewalk

Vacant Building

500 gal. Waste Oil Tank

Dispenser Islands

Dispensers

Concrete Pad

Piping  
(assumed routes)

Gasoline Tanks

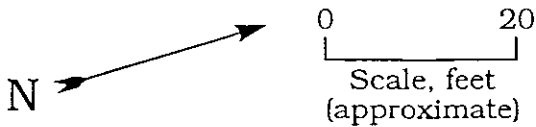
6000 gal.

8000 gal.

10,000 gal.

Property  
Line

Note: Depth to groundwater may  
be 10 to 15 feet.  
No utilities or wells on site.



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

DRAWN BY:

REVISED BY:

DATE:

APPROVED BY:

### SITE PLAN

554 27th Street, Oakland

FIGURE 1

HEALTH AND SAFETY PLAN

for  
554 27th Street  
Oakland, CA

Prepared for:

Joan Schoonbrood  
PO Box 7442  
Menlo Park, CA 94025



allowed to enter. All personnel arriving or departing the site should log in before entering the exclusion zone. All activities on site must be cleared through the Site Manager.

#### D. HAZARD EVALUATION

Potential chemical hazards include skin and eye contact or inhalation exposure to potentially toxic concentrations of hydrocarbon vapors. The potential toxic compounds that may exist at the site are listed below with descriptions of specific health effects of each. The list includes the primary potential toxic constituents that may be found at sites which previously handled petroleum hydrocarbons, including home heating diesel fuel.

##### 1. Benzene

- a. Colorless to light yellow, flammable liquid with an aromatic odor.
- b. Toxic hazard by **inhalation, adsorption, ingestion and skin and/or eye contact.**
- c. Exposure may irritate eyes, nose and respiratory system and may cause acute restlessness, convulsions, nausea, or depression. Benzene is carcinogenic.\*
- d. Permissible exposure level (PEL) for a time weighted average (TWA) over an eight hour period is 1.0 ppm.

##### 2. Toluene

- a. Colorless liquid with a sweet, pungent, benzene like odor.
- b. Toxic hazard by **inhalation, adsorption, ingestion and skin and/or eye contact.**
- c. Exposure may cause fatigue, weakness, confusion, euphoria, dizziness, headaches, dilated pupils, lacrimation, nervousness, insomnia, paresthesia, and dermatitis.
- d. Permissible exposure level for a time weighted average over an eight hour period is 100 ppm.

##### 3. Xylene

- a. Colorless liquid with an aromatic odor.
- b. Toxic hazard by **inhalation, adsorption, ingestion and skin and/or eye contact.**
- c. Exposure may irritate eyes nose and throat and may cause dizziness, excitement, drowsiness, incoordination, corneal vacuolization, anorexia, nausea, vomiting, and dermatitis.
- d. Permissible exposure level for a time weighted average over an eight hour period is 100 ppm.

##### 4. Ethylbenzene

- a. Colorless liquid with an aromatic odor.
- b. Toxic hazard by **inhalation, ingestion, and skin and/or eye contact.** Ethylbenzene is carcinogenic.\*
- c. Exposure may irritate eyes and mucous membrane and may cause headaches, dermatitis, narcosis and loss of consciousness.
- d. Permissible exposure level for a time weighted average over an eight hour period is 100 ppm.

5. Lead

- a. A heavy ductile soft grey metal.
- b. Toxic hazard by **inhalation, ingestion, and skin and/or eye contact.**
- c. Exposure may cause weakness, nausea, lassitude, diarrhea, insomnia, anorexia, inflamed mucous membranes and abdominal pains. Lead is carcinogenic.\*
- d. Permissible exposure level for a time weighted average over an eight hour period is .05 ppb (in vapor).

6. Diesel

- a. Colorless to dark brown, combustible liquid with an aromatic odor
- b. Toxic hazard by **inhalation, ingestion, skin and/or eye contact.**
- c. Inhalation of vapors may depress the central nervous system, increasing reaction times, and decreasing pulse rate and blood pressure. Skin irritant.
- d. Occupational exposure limit 5.0 ppm (in vapor).

7. Gasoline

- a. Colorless liquid with a strong aromatic odor. Highly volatile and extremely flammable.
- b. Toxic hazard by **inhalation, adsorption, ingestion, and skin and/or eye contact.**
- c. Inhalation of vapors can cause depression of the central nervous system with symptoms such as headache, dizziness, nausea, and loss of coordination. Skin contact can cause defatting of the skin, skin irritation, and dermatitis. Benzene is a major constituent of gasoline.
- d. Permissible exposure level for a time weighted average over an eight hour period is 300 ppm.

8. Waste Oil

- a. Toxic hazard by **ingestion** and possibly **inhalation.**
- b. Prolonged contact may cause skin irritation and dermatitis. Waste oil may be carcinogenic.\*
- c. Waste oil may contain metals or toxic organics from thermal breakdown of the oil. In some cases, chlorinated solvents may be present.
- d. Permissible exposure level for a time weighted average over an eight hour period is 5 ppm (in vapor).

\* Known to the State of California to cause cancer.

Dusty Roy has been designated to coordinate access control and security on site. All work will strictly follow OSHA guidelines. A safe perimeter has been established at a three foot radius surrounding the site. These boundaries are identified by yellow caution tape and orange safety cones. Personnel shall maintain the maximum distance from the excavation while performing their duties. Additional hazards on site include heavy equipment and overhead lifting equipment. Only 40-hour trained personnel will operate equipment or perform any duty associated with this project.

A FIRST AID KIT AND A 40 POUND BC FIRE EXTINGUISHER WILL BE AVAILABLE ON SITE.

EMERGENCY SERVICES ARE AVAILABLE BY DIALING 911 ON THE TELEPHONE LOCATED IN THE SITE MANAGER'S VEHICLE. THIS VEHICLE WILL BE ON SITE AT ALL TIMES.

#### E. PERSONAL PROTECTIVE CLOTHING

Based on evaluation of potential hazards, level "D" protective clothing has been designated as the appropriate protection for this project. The level of protective clothing will be upgraded if the organic vapor levels in the operator's breathing zone exceeds 5 ppm above background levels continuously for more than five minutes, or if any single reading exceeds 25 ppm. If this occurs then level C protection will be used. If the organic concentration in the operator's breathing zone exceed's 200 ppm for 5 minutes and/or the organic vapor concentration two feet above the excavation exceeds 1,000 ppm or 10% of the lower explosive limit, then the equipment will be shut down and the site evacuated. If organic vapor concentrations exceed 200 ppm and work continues then level B protection will be required.

"EPA Standard Operating Safety Guidelines" defines the levels of protective clothing as follows:

##### LEVEL A:

Fully encapsulating suit / SCBA / Hard hat / Steel toe boots / Safety gloves.

##### LEVEL B:

Splash resistant suit / SCBA / Hard Hat / Steel toe boots / Safety gloves.

##### LEVEL C:

✓ Half face respirator / Hard hat / Safety glasses / Steel toe boots / Coveralls / Gloves.

##### LEVEL D:

Coveralls / Hard hat / Safety Glasses / Steel toe boots / Gloves.

If air purifying respirators are authorized, organic vapor w-filter is the appropriate canister for use with the involved substances and concentrations. A competent individual has determined that all criteria for using this type of respiratory protection have been met.

NO CHANGES TO THE SPECIFIED LEVELS OF PROTECTION SHALL BE MADE WITHOUT THE APPROVAL OF THE COMPANY SAFETY OFFICER, G. W. ROY.

F. MONITORING INSTRUMENTS — *air monitoring? ppmv?*

The following environmental monitoring instruments shall be used on site at specified intervals.

Lower Explosive Limit (LEL) Meter that will also check the tank for Oxygen levels will be used to check the tank for removal and transportation.

G. EMERGENCY HOSPITAL

The closest hospital with an emergency room is:

**PERALTA HOSPITAL**

**(510) 451-4900**

DIRECTIONS FROM THE JOB SITE:

EXIT JOBSITE AND GO:

Right on 27th, make U-turn;  
Left on Telegraph;  
Right on 30th Street;  
Hospital is located on the left.



H. READ AND SIGN

The work party was briefed on the contents of this plan on \_\_\_\_\_ 1994 at 8:00 am. All site personnel have read the above plan and are familiar with its provisions.

NAME:

SIGNATURE:

COMPANY NAME:

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