

**ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY**

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, DIRECTOR

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

September 12, 1995
STID# 4266

Ms. Maryann Leshin
City of Emeryville Redevelopment Agency
2200 Powell Street, Suite 1200
Emeryville, California 94608

**RE: Proposed Groundwater Monitoring Program
4300 San Pablo Avenue, Emeryville, CA 94608**

Dear Ms. Leshin:

The Alameda County Department of Environmental Health, Environmental Protection Division has completed review of the proposed groundwater monitoring program incorporated in the May 18, 1995 Quarterly Groundwater Monitoring Report prepared by AGI Technologies for the referenced site.

Based on the review of all the historical data submitted for the subject site, this office recommends the following groundwater monitoring program:

- 1) Groundwater monitoring wells MW -1, MW-2, MW-4, and MW-5 shall be sampled every six (6) months, if possible starting this month of September. The next sampling events will be March, 1996 and September, 1996.
- 2) Groundwater level measurements shall be collected on every sampling event, starting with September, 1995. Groundwater flow direction must be established during each monitoring events.
- 3) Groundwater samples shall be analyzed for TPH gasoline, TPH diesel and BTEX.
- 4) Following the last scheduled sampling event (September, 1996), the data collected for the site will be evaluated and case closure will be recommended if appropriate (depending on the concentration of contaminants found at the subject site).

A report must be submitted to this agency within **45 days** after completion of any phase of this investigation. Until clean up is complete, you will need to submit reports to this office every three months or at a more frequent interval, if specified at any time. In addition, the following items must be incorporated in your future reports or work plans:

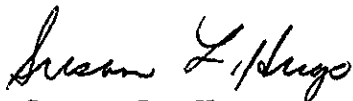
Ms. Maryann Leshin
RE: 4300 San Pablo Avenue, Emeryville, CA 94608
September 12, 1995
Page 2 of 2

- a cover letter from the responsible party or tank owner stating the accuracy of the report and whether he/she concurs with the conclusions and recommendations in the report or work plan
- site map delineating contamination contours for soil and groundwater based on recent data should be included and the status of the investigation and cleanup must be identified
- proposed continuing or next phase of investigation / cleanup activities must be included to inform this department of the responsible party or tank owner's intention
- any changes in the groundwater flow direction and gradient based on the measured data since the last sampling event must be explained
- historical records of groundwater level in each well must be tabulated to indicate the fluctuation in water levels
- tabulate analytical results from all previous sampling events; provide laboratory reports (including quality control/quality assurance) and chain of custody documentation

All reports and proposals must be submitted under seal of a California Registered Geologist or Registered Civil Engineer with a statement of qualifications for each lead professionals involved with the project.

If you have any questions concerning this letter, please call me at (510) 567-6780.

Sincerely,



Susan L. Hugo
Senior Hazardous Materials Specialist

cc: Jun Makishima, Interim Director, Environmental Health
George Young, Acting Chief, Environmental Protection / files
Kevin Graves, San Francisco Bay RWQCB
William Henry, AGI Technologies, 827 Broadway, Suite 210
Oakland, California 94607

CITY OF EMERYVILLE



MARYANN LESHIN
Projects Coordinator

8/10/95

To: Susan Hugo

Per our telephone conversation today, attached is AGI's Final Quarterly monitoring report on 4300 San Pablo Avenue.

Please let me know if their proposed modified monitoring plan for the next year is acceptable.

Thanks -

Maryann

ALCO
HAZMAT
94 JUN 23 PM 3:01

June 22, 1994

STD

15,681.004.04

Ms. Susan Hugo
Alameda County Health Care Services Agency
80 Swan Way, Room 200
Oakland, California 94621

Dear Ms. Hugo:

Well Monitoring
4300 San Pablo Avenue
Emeryville, California

This letter summarizes our telephone conversation on June 22, 1994 regarding which wells to sample during quarterly well monitoring at the subject site.

The site was formerly occupied by a service station and a car wash. Four former underground storage tank locations have been identified at the site. Subsurface conditions at the site have been explored by others with test borings and wells. Seven groundwater monitoring wells currently exist. Soil and groundwater contaminated with diesel, gasoline and benzene, ethylbenzene, toluene and xylenes (BETX) have been detected.

In the Work Plan dated May 9, 1994, AGI Technologies (AGI) proposed to sample 3 wells and measure groundwater levels in all 7 wells quarterly for one year at the site.

In the letter dated June 1, 1994, the Alameda County Health Care Services Agency (ACHCSA) requested that 5 monitoring wells (MW-1, MW-4, MW-5, MW-6 and MW-7) be sampled quarterly at the site.

During our conversation on June 22, 1994, Ms. Susan Hugo of the ACHCSA revised the well sampling requirement to 4 wells (MW-4, MW-5, MW-6 and MW-7). However, if contamination is encountered in the up-gradient well (MW-7), it will be necessary to also monitor MW-1.

If you have questions or comments regarding this letter, please call.

Sincerely,

AGI Technologies



William K. Wikander, P.E.
Associate

WKW/WPH/wkw

copy: Mr. Ignacio Dayrit; Emeryville Redevelopment Agency

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

June 1, 1994
STID# 4266

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

Mr. Ignacio Dayrit
City of Emeryville
Redevelopment Agency
2200 Powell Street, Suite 1200
Emeryville, California 94608

**RE: Soil and Groundwater Investigation / Remediation at
4300 San Pablo Avenue, Emeryville, California 94608**

Dear Mr. Dayrit:

The Alameda County Department of Environmental Health, Hazardous Materials Division has recently reviewed the work plan for the quarterly groundwater monitoring program prepared by AGI Technologies for the referenced site.

The proposed quarterly monitoring program is acceptable to this office with the provision that the following modifications will be addressed:

- 1) Monitoring wells MW-1 and MW-6 must be included in the sampling events in addition to MW-4, MW-5 and MW-7. Groundwater samples must be analyzed for the following target compounds: TPH gasoline, TPH diesel, benzene, toluene, ethyl benzene and xylene.
- 2) Groundwater elevation measurements must be conducted in all the seven monitoring wells (MW-1 to MW-7) to establish the direction and gradient of groundwater flow at the site.
- 3) The upcoming quarterly monitoring report for this site should include the results of the upgradient well (MW-7) installation such as the boring logs and monitoring well construction diagram.

Until cleanup is complete, you will need to submit reports to this office every three months (or at a more frequent interval, if specified at any time by this agency). In addition, the following items must be incorporated in your future reports or workplans:

- a cover letter from the responsible party or tank owner stating the accuracy of the report and whether he/she concurs with the conclusions and recommendations in the report or workplan

Mr. Ignacio Dayrit
RE: 4300 San Pablo Avenue, Emeryville, CA 94608
June 1 , 1994
Page 2 of 2

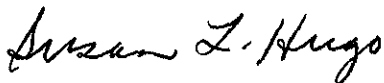
- site map delineating contamination contours for soil and groundwater based on recent data should be included and the status of the investigation and cleanup must be identified
- proposed continuing or next phase of investigation / cleanup activities must be included to inform this department of the responsible party or tank owner's intention
- any changes in the groundwater flow direction and gradient based on the measured data since the last sampling event must be explained
- historical records of groundwater level in each well must be tabulated to indicate the fluctuation in water levels
- tabulate analytical results from all previous sampling events; provide laboratory reports (including quality control/quality assurance) and chain of custody documentation

All reports and proposals must be submitted under seal of a California Registered Geologist or Registered Civil Engineer with a statement of qualifications for each lead professionals involved with the project.

Because we are overseeing this site under the designated authority of the Regional Water Quality Control Board, this letter constitutes a formal requests for technical reports pursuant to California Water Code Section 13267 (b). Any extensions of stated deadlines or changes in the workplan must be confirmed in writing and approved by this agency.

Please contact me at (510) 271-4530 if you have any questions concerning this letter.

Sincerely,



Susan L. Hugo
Senior Hazardous Materials Specialist

cc: Rafat A. Shahid, Asst. Agency Director, Environmental Health
Kevin Graves, San Francisco Bay RWQCB
Edgar B. Howell, Chief, Hazardous Materials Division - files
John Adams, AGI Technologies, 827 Broadway, Suite 210
Oakland, California 94607

**Alameda County Department of Environmental Health
Hazardous Materials Division**

80 Swan Way, Rm. 200, Oakland, CA 94621
Ph: 510-271-4320

BILLING FOR SERVICES

STID#

A. Site Name See list below Phone

Site Address

(If no address, description of area) Number Street City Zip

Prior Business Name Prior Owner's Name

B. Service Requestor JOHN WOLF WEISS ASSOCIATES Phone

Contact Person Company Name

Billing Address 5500 SHELLMOUND ST. EMERYVILLE 94608

Number Street City Zip

<u>Category of Service</u>		#Hours	x \$	=	\$
<input checked="" type="checkbox"/> Site Search		1.00	x \$ 75.00/Hr	\$	75.00
<input type="checkbox"/> File Search					
<input type="checkbox"/> Other					
		#Copies	x \$	=	\$
		27	x \$ 1.00/Copy	\$	27.00
		Other	x \$	=	\$
				TOTAL CHARGE: \$ 102.00	

REMARKS: 1) 4300 San Pablo Ave, Emeryville STID 4266

2) 4550 San Pablo Ave, Emeryville

3) 1140 45th St. Emeryville

You will receive an invoice in accordance with Article 11 of Chapter 6, Title 3 of the Ordinance Code of Alameda County

Service Requestor JOHN WOLFE Date 4/6/94

printed name signature

HazMat Specialist SUSAN HUGO Date 4/6/94

printed name signature



STIP 4266

93 JUL 29 PM 2:07

CITY OF EMERYVILLE
REDEVELOPMENT AGENCY

2200 POWELL STREET, SUITE 1200
EMERYVILLE, CALIFORNIA 94608

(510) 596-4350

July 28, 1993

Ms. Susan Hugo
Alameda County Health Care Services Agency
80 Swan Way, Room 200
Oakland, CA 94621

Re: Groundwater Monitoring Program
4300 San Pablo Avenue, Emeryville

Dear Ms. Hugo:

This has reference to the letter sent to you on June 23, 1993 by Mr. R. William Rudolph of Subsurface Consultants, Inc. regarding the groundwater monitoring program for 4300 San Pablo Avenue.

Our office would like to retain the services of a firm that will conduct groundwater monitoring, as recommended by Mr. Rudolph. However, since the time the letter was sent, our staff have unsuccessfully attempted to contact you by phone in order to discuss this matter with you. In this regard, if our office does not hear from you by August 12, 1993, we will assume that you are in concurrence with the procees recommended by Mr. Rudolph.

Please contact me or Ignacio Dayrit, Projects Coordinator at (510)596-4350 regarding this matter.

Sincerely,

KOFI BONNER
Director, Economic Development and Housing

cc. Mr. R. William Rudolph
Subsurface Consultants, Inc.
171 12th Street, Suite 201
Oakland, CA 94607

IG10:SH-HUGO.LTR

? 33W Inc.
1200 Lakeshore Ave Oakland
City of Emeryville 94606
2200 Powell St. 12 Floor
Emeryville 94608
Attn: Ignacio Alayrit

DATE: 7/16/92
TO : Local Oversight Program
FROM: SUSAN
SUBJ: Transfer of Eligible Oversight Case

Site name: City of Emeryville Redevelopment Agency
Address: 4300 San Pablo Ave city Emeryville 94608

Closure plan attached? Y N DepRef remaining \$ _____

DepRef Project # _____ STID #(if any) 2264

Number of Tanks: _____ removed? Y N Date of removal _____

Leak Report filed? Y N Date of Discovery 8/2/90 reported

Samples received? Y N Contamination: _____

Petroleum Y N Types: Avgas Jet leaded unleaded Diesel
fuel oil waste oil kerosene solvents

Monitoring wells on site _____ Monitoring schedule? Y N

LUFT category 1 2 3 * H S C A R W G O

Briefly describe the following:
Preliminary Assessment _____
Remedial Action _____
Post Remedial Action Monitoring _____
Enforcement Action _____

1:30 - 2:00

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

II, III

Site ID # _____ Site Name City of Emeryville Today's Date 8/7/91

Site Address 4300 San Pablo Ave.
City Emeryville Zip 94608 Phone _____

MAX AMT stored > 500 lbs, 55 gal., 200 cff.?

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:

Sampling of aerated stockpiled soil collected (approx) 45-50 cu yds.

2 sample collected as verification sample before re-dispersing the stockpile in the ground.

II.A BUSINESS PLANS (Title 19)

- 1. Immediate Reporting 2703
- 2. Bus. Plan Stds. 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(f)
- 18. Exemption Request? (Y/N) 25536(b)
- 19. Trade Secret Requested? 25538

III. UNDERGROUND TANKS (Title 23)

- | | |
|---|---|
| General | <input type="checkbox"/> 1. Permit Application 25284 (H&S) |
| | <input type="checkbox"/> 2. Pipeline Leak Detection 25292 (H&S) |
| | <input type="checkbox"/> 3. Records Maintenance 2712 |
| | <input type="checkbox"/> 4. Release Report 2651 |
| | <input type="checkbox"/> 5. Closure Plans 2670 |
| Monitoring for Existing Tanks | <input type="checkbox"/> 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 | <input type="checkbox"/> 7. Precs Tank Test 2643
Date: _____ |
| | <input type="checkbox"/> 8. Inventory Rec. 2644 |
| | <input type="checkbox"/> 9. Soil Testing . 2646 |
| | <input type="checkbox"/> 10. Ground Water. 2647 |
| <input type="checkbox"/> 11. Monitor Plan 2632 | |
| <input type="checkbox"/> 12. Access. Secure 2634 | |
| <input type="checkbox"/> 13. Plans Submit 2711
Date: _____ | |
| <input type="checkbox"/> 14. As Built 2635
Date: _____ | |

Rev 6/88

II, III

Contact: _____

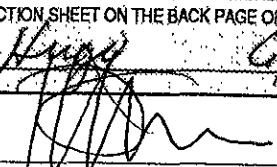
Title: _____

Signature: _____

Inspector: _____

Signature: Susan L. Hugel

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 06/07/91		CASE # 91 JUN 17 11:32		SIGNED Susan J. Hugo	
NAME OF INDIVIDUAL FILING REPORT IGNACIO DAYRIT		PHONE (415) 5964356		SIGNATURE 	
REPORTED BY	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 CITY OF EMERYVILLE REDEVELOPMENT AGENCY		
	ADDRESS 2200 POWELL ST. 12TH FLOOR EMERYVILLE CA 94608				
RESPONSIBLE PARTY	NAME CITY OF EMERYVILLE REDEVELOPMENT AGENCY		CONTACT PERSON IGNACIO DAYRIT		PHONE (415) 5964356
	ADDRESS 2200 POWELL ST. 12TH FLOOR EMERYVILLE CA 94608				
SITE LOCATION	FACILITY NAME (IF APPLICABLE) - NA -		OPERATOR CITY OF EMERYVILLE		PHONE (415) 5964350
	ADDRESS 4300 SAN PABLO AVE. EMERYVILLE CA 94608				
	CROSS STREET 43RD STREET				
IMPLEMENTING AGENCIES	LOCAL AGENCY ALAMEDA CO. HEALTH CARE SERVICES		CONTACT PERSON SUSAN HUGO		PHONE (415) 2714320
	REGIONAL BOARD LESTER FELDMAN				
SUBSTANCES INVOLVED	(1) GASOLINE				QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN
	(2)				
DISCOVERY/ABATEMENT	DATE DISCOVERED 06/09/91		HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input checked="" type="checkbox"/> OTHER SUBSURFACE INVESTIGATION		
	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				
SOURCE/CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input checked="" 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 type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER		
	CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input checked="" 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 type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input checked="" type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY				
	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <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)				
COMMENTS	THE SITE WAS A FORMER LOCATION GASOLINE STATION. THE UNDERGROUND STORAGE TANKS WERE REMOVED PRIOR TO 1969.				

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



June 4, 1991

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

Mr. Ignacio Dayrit
City of Emeryville
Redevelopment Agency
2200 Powell Street, Suite 1200
Emeryville, CA 94608

**RE: Preliminary Environmental Assessment - Phase 3
4300 - 4310 San Pablo Avenue, Emeryville 94608**

Dear Mr. Dayrit:

The Alameda County Department of Environmental Health, Hazardous Materials Division has reviewed the Phase 3 Preliminary Environmental Assessment prepared by Subsurface Consultants, Inc. for the above referenced site. Soil contamination (490 ppm Total Volatile Hydrocarbon) and groundwater contamination (2,800 ppb Total Extractable Hydrocarbon) were found at the site. Based on this review, additional soil and groundwater investigations-remediation is required and the following areas of concern to this department must be addressed:

- ✓ 1. **Unauthorized Release Report -**
Because of the amount of contamination found at the site, the facility is considered to have a confirmed release. Title 23 of the California Code of Regulations requires all such unauthorized releases from underground tanks to be reported. Enclosed is an "Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report" form which must be completed and returned within five working days. Please submit the entire completed form to our office.
2. **Removal of underground tanks -**
Any underground tanks and/or associated piping which may still exist at the site must be properly removed and an Underground Tank Closure Plan should be submitted to our department. The old service station (in operation until 1966) site plans indicate that two tanks had been relocated to an unknown on-site location.
3. **Determination of the extent and magnitude of soil contamination -**
The extent of soil contamination has not been fully characterized. Additional work is required for soil contamination to be defined to "non-detect levels."

4. Definition of the horizontal and vertical extent of the groundwater pollution plume -

The horizontal and vertical extent of the groundwater contamination has not been determined. The groundwater contamination plumes must be defined to "non-detect" levels. Verified downgradient flow of groundwater must be established at the site. Monitoring wells must be installed according to RWQCB guidelines. The monitoring wells must be screened to intercept any floating product and any heavier-than-water contaminants. All monitoring wells must be sampled monthly for free product and dissolved constituents for the first three months following well installation. After three months of consecutive sampling, sampling maybe conducted as needed for remediation purposes but must occur at least quarterly. Before each sampling event is begun, free product thickness and water level must be performed using an optical probe or other device of equal accuracy.

5. Interpretation of hydrogeologic data -

Water level contour maps, groundwater gradient determinations, and free and dissolved product definition maps must be routinely prepared and submitted with analytical data from each sampling event. Fluctuations in groundwater levels due to tidal action should also be documented. Geologic cross-sections must be prepared using appropriate boring logs. The geologic characteristics of the aquifer must be described. The cross-sections, groundwater gradient (horizontal and vertical) and tidal effects must be interpreted to explain pollution migration pattern.

6. Determination of the potential short- and long-term impacts of the pollution plume on the beneficial uses of ground and surface water in the area -

Beneficial uses include municipal water supply, groundwater recharge, fresh water habitat, wildlife habitat, contact and non-contact recreation, and fish migration.

7. Development of a remediation plan -

The overall effectiveness of the remediation plan system should be verified by an appropriate monitoring program. The plan is to include a time schedule for plan implementation and at a minimum address the following:

- a) Expedient removal of all free product by an appropriate remediation system. Specific information on the system must be submitted. Actual amount of free product must be monitored and tabulated.

Mr. Ignacio Dayrit
City of Emeryville
June 4, 1991
Page 3 of 4

- b) Remediation of dissolved constituents and contaminated soil. Contaminated groundwater must be remediated such that beneficial uses of the ground and surface water are restored and/or protected as required by RWQCB's "Policy with Respect to Maintaining High Quality of Waters in California".
- c) Design of remedial action system. Remedial action systems must be designed base on appropriate review of hydro-geologic and water quality data. Aquifer test data (pump and/or slug testing) must be used to determine aquifer characteristics and the capture zone of the extraction system.

8. Prepare a site safety plan -

Reports documenting implementation of the above workplan must contain:

- 1. Actions that have occurred since the last report
- 2. Water levels records
- 3. Clear records of field observations
- 4. Chain of custody forms
- 5. Laboratory-originated analytical results
- 6. Water level contour maps
- 7. Gradient determinations
- 8. Status of free product remediation
- 9. Status of soil remediation
- 10. Status of soil contamination definition
- 11. Status of dissolved constituents remediation
- 12. Status of dissolved constituents plume definition
- 13. Copies of TSDF to Generator manifests for any hazardous wastes hauled off site
- 14. Soil boring/well logs of existing/new wells/ borings signed by appropriate **registered or certified professional**

The need for additional investigation or remedial actions at this site will be based upon the data derived from this investigation. You may implement remedial actions before approval of the workplan to act diligently in protecting the waters of the State. However, final concurrence by this office will depend on the extent to which the work done meets the requirements, of this letter.

This department will oversee the assessment and remediation for this site. However, RWQCB may choose to take over as lead agency if it is determined that there has been substantial impact to groundwater.

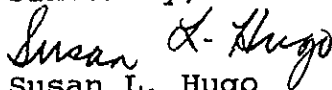
Mr. Ignacio Dayrit
City of Emeryville
June 4, 1991
Page 4 of 4

A report must be submitted within 30 days after completion of this investigation. Subsequent reports must be submitted **quarterly** until the site can be recommended for RWQCB "**sign off**". All reports and proposals must be submitted under seal of a California Registered Geologist or Registered Civil Engineer with a statement of qualifications for each lead professional involved with the project. Copies of reports and proposals must also be submitted to RWQCB (attention: Lester Feldman).

Please be aware that this is a formal request for technical reports pursuant to California Water Code Section 13267 (b). Any extensions of stated deadlines or changes in the workplan must be confirmed in writing and approved by this agency or RWQCB.

Should you have any questions about this letter, please contact me at (415) 271-4320.

Sincerely,



Susan L. Hugo
Hazardous Materials Specialist

cc: Rafat A. Shahid, Assistant Agency Director, Environmental
Health
Lester Feldman, San Francisco Bay RWQCB
Howard Hatayama, State Department of Health Services
William Wikander, Subsurface Consultants, Inc.
files

L.S.



**CITY OF EMERYVILLE
REDEVELOPMENT AGENCY**

2200 POWELL STREET, SUITE 1200

EMERYVILLE, CALIFORNIA 94608

(415) 596-4350

April 2, 1991


Ms. Susan Hugo
Alameda County
Health Care Services Agency
80 Swan Way, Room 200
Oakland, CA 94621

Dear Ms. Hugo:

Pursuant to your letter of March 14, 1991, please find enclosed a deposit of \$536.00 for the review of the report prepared by Subsurface Consultants, Inc. on the property on 4300 San Pablo Avenue, Emeryville. This report was transmitted to your office for comment on January 10, 1991.

We appreciate your expedient attention to this matter. Thank you.

Sincerely,


IGNACIO DAYRIT
Projects Coordinator

HO 22
SH-SLH.LTR

CITY OF EMERYVILLE

ORGANIZATION	ACCOUNT	PURCHASE ORDER	INVOICE NUMBER	AMOUNT	DESCRIPTION
290	9275			536.00	SSW EIR REVIEW FEE DEP

A011

ALAMEDA COUNTY

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



March 14, 1991

Mr. Ignacio Dayrit
Projects Coordinator
City of Emeryville
Redevelopment Agency
2200 Powell Street, Suite 1200
Emeryville, CA 94608

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

**RE: Preliminary Environmental Assessment
4300 - 4310 San Pablo Avenue, Emeryville 94608**

Dear Mr. Dayrit:

The Alameda County Department of Environmental Health, Hazardous Materials Division has received the January 8, 1991 preliminary environmental assessment report prepared by Subsurface Consultant, Inc. for the referenced site, as submitted under your cover letter dated January 10, 1991. Before this report can be reviewed and approved for implementation, it is necessary that you submit to this office a deposit of \$536.00 made payable to the County of Alameda.

This deposit is authorized under **Section 3-141.6 of the Ordinance Code of the County of Alameda** and is used to cover the expenses incurred by the County personnel in the execution of their oversight responsibilities associated with the project. Records of the time County employees commit to the project are maintained and the deposit is charged an hourly rate of \$67.00. Upon completion of the project, the balance of the deposit will be refunded to you.

Once this deposit issue is addressed, our office will review the submitted report and issue a written response in a timely manner. If you have any question concerning this letter, please contact me at (415) 271-4320.

Sincerely,

A handwritten signature in cursive script that reads "Susan L. Hugo".

Susan L. Hugo
Hazardous Materials Specialist

cc: Rafat A. Shahid, Assistant Agency Director, Environmental Health

Edgar B. Howell, Chief, Hazardous Materials Division
William Wikander, Subsurface Consultants, Inc.

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LOP - RECORD CHANGE REQUEST FORM

printed:
05/28/96

Mark Out What Needs Changing and Hand to LOP Data Entry
(Name/Address changes go to Annual Programs Data Entry)

Insp: SH

AGENCY # : 10000 SOURCE OF FUNDS: F SUBSTANCE: 8006619
 StID : 4266 LOC:
 SITE NAME: Emeryville Redevelopmnt Agency DATE REPORTED : 08/02/90
 ADDRESS : 4300 San Pablo Ave DATE CONFIRMED: 08/02/90
 CITY/ZIP : Emeryville 94608 MULTIPLE RPs : N

SITE STATUS

CASE TYPE: S CONTRACT STATUS: 4 PRIOR CODE:2B4 EMERGENCY RESP:
 RP SEARCH: S DATE COMPLETED: 10/13/92
 PRELIMINARY ASMNT: C DATE UNDERWAY: 06/06/90 DATE COMPLETED: 12/26/90
 REM INVESTIGATION: C DATE UNDERWAY: 12/26/90 DATE COMPLETED: 03/25/95
 REMEDIAL ACTION: C DATE UNDERWAY: 07/01/90 DATE COMPLETED: 07/30/90
 POST REMED ACT MON: DATE UNDERWAY: DATE COMPLETED:

ENFORCEMENT ACTION TYPE: 1 DATE ENFORCEMENT ACTION TAKEN: 10/13/92
 LUFT FIELD MANUAL CONSID: 3HSCAWG
 CASE CLOSED: Y DATE CASE CLOSED: 05/31/96
 DATE EXCAVATION STARTED : 07/01/90 REMEDIAL ACTIONS TAKEN: ED

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME: Ms. Maryann Leshin
 COMPANY NAME: City of Emeryville
 ADDRESS: 2200 Powell St. 12th Fl.
 CITY/STATE: Emeryville, Ca 94608

INSPECTOR VERIFICATION:

NAME _____

SIGNATURE *Susan G. Hugo*

DATE *5/29/96*

DATA ENTRY INPUT:

Name/Address Changes Only

Case Progress Changes

ANPPGMS _____ LOP _____ DATE _____

LOP _____ DATE _____