R052

ALAMEDA COUNTY ENVIRONMENTAL HEALTH DEPARTMENT
Division of Environmental Protection

1131 HARBOR BAY PARKWAY, SUITE 250
ALAMEDA, CA 94502-6577
Telephone (510) 567-6700 FAX (510) 337-9335

FACSIMILE COVER SHEET

To: Matthew Hall

From: Steven Plunkett

Date: 1/23/07

Notes: Matt, here are the well survey forms.
Thanks

PO 52

STATE OF CALIFORNIA - THE RESOURCES AGENCY — ARNOLD SCHWARZENEGGER, Governor

DEPARTMENT OF WATER RESOURCES

CENTRAL DISTRICT	NORTHERN DISTRICT	SAN JOAQUIN DISTRICT	SOUTHERN DISTRICT
901 P Street	2440 Main Street	3374 E. Shields Ave Ste A7	770 Fairmont Avenue
Sacramento, CA 95814	Red Bluff, CA 96080	Fresno, CA 93726	Glendale, CA 91203
(916) 651-0753	(530) 529-7300	(559) 230-3300	(818) 500-1645 ext. 233
(916) 651-0726 (Fax)	(530) 529-7322 (Fax)	(559) 230-3301 (Fax)	(818) 543-4604 (Fax)

WELL COMPLETION REPORT RELEASE REQUEST AND CONFIDENTIALITY AGREEMENT REGULATORY-RELATED ENVIRONMENTAL CLEANUP STUDY

Well Completion Reports associated with wells located within two miles of an area affected or potentially affected by a known unauthorized release of a contaminant will be made available upon request to any person performing an environmental cleanup study associated with the unauthorized release, if the study is conducted pursuant to a regulatory agency order (Water Code Section 13752).

Requests must be made on the form below, signed and submitted to the appropriate DWR District Office. Please provide the township, range, and section of the property where the study is to be conducted. Attach a map or a sketch with a north arrow, and provide as much identifying information requested below as possible;-additional paper may be attached if necessary.

By signing below, the requester acknowledges and agrees that, in compliance with Section 13752, the information obtained from these reports will be kept confidential and will not be disseminated, published, or made available for inspection by the public. Copies obtained must be stamped **CONFIDENTIAL** and kept in a restricted file accessible only to authorized personnel. These reports must not be used for any purpose other than for the purpose of conducting the environmental cleanup study.

Project Name: 1600 63rd Street — County: Alameda

Street Address: 1600 63rd Street — City: Emeryville

Township, Range, and Section: — Radius: 1/2 mile

(Include entire study area and a map that shows the area of interest.) — (maximum 2 miles)

Requester	Regulatory Agency
Treadwell & Rollo, Inc.	ACHCSA
Requester's Company	Regulatory Agency Name
Matthew Hall	Steven Plunkett
Requester's Name (**please print**)	Agency Contact Name (**please print**)
501 14th Street, 3rd Floor	1131 Harbor Bay Parkway, Ste. 250
Address	Address
Oakland, CA 94612	Alameda CA 94502
City, State, and Zip Code	City, State, and Zip Code
Signature:	Signature:
Title: Project Scientist	Title: Hazardous Materials Specialist
Telephone: (510) 874-4500 x 556	Telephone: (510) 383-1767
FAX: (510) 874-4507	FAX: (510) 337-9335
Date: 1/22/07	Date: 1/23/07
E-mail: mbhall@treadwellrollo.com	E-mail: Steven.plunket@acgov.org

COUNTY OF ALAMEDA
PUBLIC WORKS AGENCY
WATER RESOURCES SECTION
399 Elmhurst Street, Hayward, CA 94544-1395
James Yoo PH: (510) 670-6633 FAX: (510) 782-1939
FOR GENERAL DRILLING PERMIT INFO:
www.acgov.org/pwa/wells

WELL COMPLETION REPORT RELEASE AGREEMENT—AGENCY

(Government and Regulatory Agencies and their Authorized Agents)

Project No/ Site Address. 3494.01 / 1600 63rd Street, Emeryville City Emeryville

Township, Range, and Section _____ Radius 1/2 mile
(Must include entire study area and a map that shows the area of interest.)

Under California Water Code Section 13752, the agency named below requests permission from Department of Water Resources to inspect or copy, or for our authorized agent named below to inspect or copy, Well Completion Reports filed pursuant to Section 13751 to (check one):

☒ Make a study, or,

☐ Perform an environmental cleanup study associated with an unauthorized release of a contaminant within a distance of 2 miles.

In accordance with Section 13752, information obtained from these reports shall be kept confidential and shall not be disseminated, published, or made available for inspection by the public without written authorization from the owner(s) of the well(s). The information shall be used only for the purpose of conducting the study. Copies obtained shall be stamped **CONFIDENTIAL** and shall be kept in a restricted file accessible only to agency staff or the authorized agent.

Matthew Hall, Treadwell & Rollo, Inc Authorized Agent	Alameda Co. Health Care Services / Steven Plunke Government or Regulatory Agency
501 14th Street, 3rd floor, Address	1131 Harbor Bay Pkwy, Suite 250 Address
Oakland CA 94612 City, State, and Zip Code	Alameda CA 94502 City, State, and Zip Code
Signature	Signature
Project Scientist Title	Hazardous Materials Specialist Title
Telephone (510) 289-9310	Telephone ( ) 510 / 383-1767
Fax (510) 874-4507	Fax ( ) 510 337 9335
1/22/07 Date	1/23/08 Date
mbhall@treadwellrollo.com E-mail	steven.plunkett@acgov.org E-mail

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

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

November 16, 2006

Mr. Richard Robbins
Wareham Property Group
11220 Nye Street, Suite 400
San Rafael, CA 94901

Subject: Fuel Leak Case No. RO0000052, Peterson Manufacturing Company, 1600 63rd Street, Emeryville, CA – Work Plan Approval

Dear Mr. Robbins:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site and the document entitled, "Work Plan: Supplemental Soil and Groundwater Investigation," dated October 30, 2006. The scope of work for the Soil and Groundwater Investigation (SWI) proposes the installation of three soil borings immediately downgradient of the site, installation of five onsite groundwater monitoring wells, rehabilitation and redevelopment of five existing onsite groundwater monitoring wells, a preferential pathway study and a limited free phase petroleum hydrocarbon recovery pilot test for. ACEH generally concurs with the proposed scope of work as stated in the Work Plan, provided the following technical comments are addressed prior to the implementation of the Work Plan.

We request that you perform the proposed work, and send us the reports described below. Please provide 72-hour advance written notification to this office (e-mail preferred to steven.plunkett@acgov.org) prior to the start of field activities.

TECHNICAL COMMENTS

1. **Soil Boring Locations and Soil Sampling.** At present, no off site investigation has been conducted to determine the lateral and vertical extent of petroleum hydrocarbon impacts to soil and groundwater downgradient of the site. Figure 1 from the Work Plan, which identifies the proposed soil boring locations, indicates that the linear distance between soil borings SB-1 and SB-2 is approximately 80 feet. This linear separation may not provide accurate characterization of the dissolved petroleum hydrocarbon contamination plume. ACEH recommends the installation of an additional soil boring midway between SB-1 and SB-2 on Overland Avenue. This soil boring location will provide additional data to better define the downgradient extent of dissolved petroleum hydrocarbon plume. ACEH agrees with the soil sampling analysis as proposed by Treadwell & Rollo. Results from the downgradient investigation are to be presented in the Soil and Groundwater Investigation report requested below.

2. **Monitoring Well Rehabilitation and Redevelopment.** ACEH requests that prior to monitoring well sampling, all onsite monitoring wells should be rehabilitated and/or

redeveloped; thus allowing the collection of a representative sample of formation groundwater. During well redevelopment, water quality parameter such as temperature, pH, conductivity and turbidity should be recorded after each well volume. Note that well redevelopment may require additional well volumes be removed to assure that water quality parameters are satisfied. Please present the results of the well redevelopment and rehabilitation activities in the SWI report requested below.

3. **Groundwater Sampling and Analysis.** The groundwater sampling and analysis suggested by Treadwell & Rollo in the Work Plan is acceptable. Please present the results from the well redevelopment, monitoring well installation and grab groundwater sampling in the SWI requested below.

4. **Monitoring Well Replacement.** Treadwell & Rollo has proposed the replacement of onsite monitoring wells MW-1, MW-3 and MW-4. Prior to the replacement of these monitoring wells, ACEH recommends a direct comparison between the geologic and hydrogeologic conditions in monitoring wells MW-1, MW-3 and MW-4 and the proposed soil borings TR-1, TR-3 and TR-4. The evaluation will then be used to determine if the installation of replacement monitoring wells is warranted. Should replacement monitoring wells be consider necessary, ACEH suggests the use of monitoring wells designed with screen intervals of between 2 to 5 feet, as these wells will likely be representative of depth discrete groundwater conditions. Prior to the installation of replacement monitoring wells, we request that Treadwell & Rollo provide ACEH with their rational for monitoring well replacement as well as their recommendations for monitoring well construction details.

5. **Pilot Test of Free Product Removal.** ACEH agrees with the proposal for free product removal by hand bailing for an initial period of approximately 3 months. However, we request that you recommend a more aggressive remedial strategy in order to mitigate free product contamination on site and dissolved phase petroleum hydrocarbon migration downgradient of the site. Please present your proposal for petroleum hydrocarbon remediation in the SWI requested below.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Steve Plunkett), according to the following schedule:

- **November 30, 2006** – Revised Work Plan for Soil and Groundwater Investigation
- **January 30, 2007** – Soil and Groundwater Investigation Report

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) now request submission of reports in electronic form. The electronic copy is intended to replace the need for a paper copy and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all reports is required in Geotracker (in PDF format). Please visit the State Water Resources Control Board for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code,

Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

If you have any questions, please call me at (510) 383-1767.

Sincerely,

Steven Plunkett
Hazardous Materials Specialist

cc: Mr. Glenn Leong
Treadwell & Rollo
501 14th Street, Third Floor
Oakland, CA94612

Donna Drogos, ACEH
Steven Plunkett, ACEH
File

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

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

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September 28, 2006

Mr. Richard Robbins
Wareham Property Group
11220 Nye Street, Suite 400
San Rafael, CA 94901

Subject: Fuel Leak Case No. RO0000052, Peterson Manufacturing Company, 1600 63rd Street, Emeryville, CA

Dear Mr. Robbins:

Alameda County Environmental Health Department (ACEH) staff have reviewed the case file and report entitled, "Groundwater Investigation Report and Work Plan for Additional Investigations", dated January 10, 2000 and prepared on your behalf by SOMA Corporation. Groundwater sampling conducted during May 1999 confirmed the presence of separate phase petroleum hydrocarbon in monitoring well MW-2 and downgradient in soil boring HP-5, at the property boundary. Dissolved phase total petroleum hydrocarbon as diesel (TPHd) was detected at concentrations up to 550,000 µg/L in the vicinity of the former UST and 5,800,000 µg/L at the western property boundary. In addition, total petroleum hydrocarbon as gasoline (TPHg) was tested at concentrations of 210,000 µg/L in the vicinity of MW-2 and 3,000 µg/L at the western perimeter.

Our review of the case file indicates that additional offsite characterization activities followed by onsite interim remediation are required. Off site characterization proposed in January 2000 by SOMA and subsequently approved by ACEH in October 2002 has not been implemented. Therefore, ACEH requests you provide a revised work plan that details your proposal to delineate soil and groundwater contamination downgradient of your site.

Based on the concentrations of TPHg and TPHd detected in the soil and water samples, an offsite investigation is required to assess the extent of soil and groundwater contamination downgradient of your site. We recommend that your investigation incorporate expedited site assessment techniques. Expedited site assessment tools and methods are a scientifically valid and cost-effective approach to fully define the three-dimensional extent of groundwater contamination. Technical protocol for expedited site assessments are provided in the U.S. Environmental Protection Agency's "Expedited Site Assessment tools for Underground Storage Tanks: A Guide for Regulators," (EPA 510-B-97-001), dated March 1997.

Based on ACEH staff review of the case file, we request that you address the following technical comments and prepare a work plan detailing work to be performed, and send us the reports described below. Please provide 72-hour advance written notification to this office (e-mail preferred to steven.plunkett@acgov.org) prior to the start of field activities.

TECHNICAL COMMENTS

1. **Site Characterization and Soil and Groundwater Investigation.** Results of previous investigative work performed at the site have been insufficient to adequately characterize the

extent of soil and groundwater contamination downgradient of your site. Based on the concentrations of TPH and TPH constituents detected in the soil and groundwater, additional investigation immediately downgradient of the site is required to assess the extent of soil and groundwater contamination.

ACEH recommend that your investigation incorporate expedited site assessment techniques to collect soil samples and depth-discrete groundwater samples prior to the installation of groundwater monitoring wells. Expedited site assessment tools and methods are a scientifically valid and cost-effective approach to fully define the three-dimensional extent of soil and groundwater contamination. Technical protocol for expedited site assessments are provided in the U.S. Environmental Protection Agency's "Expedited Site Assessment tools for Underground Storage Tanks: A Guide for Regulators," (EPA 510-B-97-001), dated March 1997. Therefore, we recommend that you utilize direct push technology to collect soil samples and depth-discrete groundwater samples. Sampling locations should be positioned to accurately assess the extent of soil and groundwater contamination. Other options for additional investigation may be appropriate to define contamination at your site. Please submit a detailed Work Plan presenting your proposal to fully characterize the lateral and vertical extent of soil and groundwater contamination. The Work Plan should be prepared by a qualified professional and must fully describe the proposed scope and methods for the soil and groundwater investigation.

2. **Contamination Plume Delineation.** The lateral extent of the dissolved petroleum hydrocarbon contamination has not been determined at the site. Results from the most recent groundwater monitoring conducted in May 1999 indicate that residual TPH and TPH constituents in groundwater beneath your site may be migrating off site. There has been no data collected downgradient of the site to determine the aerial extent of dissolved hydrocarbon contamination. ACEH believes the monitoring well network -in its current design- is insufficient to adequately define the extent of contamination downgradient of MW-2. To determine the extent of dissolved petroleum hydrocarbon contamination an additional soil and groundwater investigation is required downgradient of your site. Please discuss in detail your proposal to perform this work in the Work Plan requested below.

3. **Interim Remediation.** During May 1999, groundwater-sampling activities detected approximately 3 feet of floating free product in MW-2. SOMA suggests free product removal on a bi-weekly basis by hand bailing. ACEH concurs with the need for interim remedial measures in the vicinity of monitoring well MW-2 in order to mitigate free phase petroleum contamination. However, ACEH suggest a more aggressive approach to remediate free product contamination on site and mitigate offsite migration of dissolved phase petroleum hydrocarbons. Interim remediation will be required for this site due to the elevated concentrations of dissolved hydrocarbons migrating off site. Plans for interim remediation are to be proposed following site characterization as requested below.

4. **Soil Sampling.** All soils from the boreholes are to be examined for staining and odor and are to be screened using a photo-ionizing detector (PID). Soil samples are to be collected from any interval where staining, odor, changes in lithology or elevated PID readings are observed. If no staining, odor, or elevated PID readings are observed, soil sample are to be collected from each boring at the capillary fringe, immediately above the zone where groundwater is first encountered and at 5 ft interval to the total depth of the boring. Results

from the investigation are to be presented in the Soil and Groundwater Investigation Report requested below.

5. **Soil Sample Analysis.** All soil samples collected during the investigation are to be analyzed for TPHg and TPHd by EPA Method 8015M or 8260, BTEX, EDB, EDC, MtBE, TAME, ETBE, DIPE, TBA and EtOH by EPA Method 8260 and total lead. Please present the results from the soil and groundwater sampling in the Soil and Groundwater Investigation Report requested below.

6. **Monitoring Well Rehabilitation and Redevelopment.** Considering that there has been no program of groundwater monitoring at the site since 1999, ACEH requests that prior to groundwater sampling, all monitoring wells are to be rehabilitated and/or redeveloped; thus allowing the collection of a representative sample of formation groundwater. Note that well redevelopment may require additional well volumes to be removed to assure that water quality parameters are satisfied. Please describe and present the results of the well redevelopment and rehabilitation activities in Revised Work Plan for Soil and Groundwater Investigation requested below.

7. **Groundwater Monitoring.** Groundwater monitoring has not been performed since 1999. Please implement quarterly groundwater monitoring for the above referenced site according the schedule presented in the Technical Reports Requested below. ACEH requires that all on site monitoring wells be included in a groundwater-monitoring program. The groundwater samples are to be analyzed for TPHg and TPHd by EPA Method 8015M or 8260, BTEX, EDB, EDC, MtBE, TAME, ETBE, DIPE, TBA and EtOH by EPA Method 8260. Please present the results for sampling in the 4th Quarterly Monitoring Reports requested below.

8. **Preferential Pathway Study**

The purpose of the preferential pathway study is to locate potential migration pathways and conduits and determine the probability of the NAPL and/or plume encountering preferential pathways or conduits that could spread contamination. Of particular concern is the identification of abandoned wells and improperly destroyed wells that can act as vertical conduits to deeper water gearing zones, pumping wells in the vicinity of your site and manmade conduits for shallow migration.

We request that you perform a preferential pathway study that details the potential migration pathways and potential conduits (wells, utilities, pipelines, etc.) for horizontal and vertical migration that may be present in the vicinity of the site. Discuss your analysis and interpretation of the results of the preferential pathway study (including the detailed well survey and utility survey requested below) and report your results in the Well Installation Report requested below. Include an evaluation of the probability of the dissolved phase and NAPL plumes for all constituents of concern encountering preferential pathways and conduits that could spread the contamination, particularly in the vertical direction to deeper aquifers. The results of your study shall contain all information required by 23 CCR, Section 2654(b).

a) **Utility Survey**

An evaluation of all utility lines and trenches (including sewers, storm drains, pipelines, trench backfill, etc.) within and near the site and plume area(s) is required as part of

your study. Submittal of map(s) and cross-sections showing the location and depth of all utility lines and trenches within and near the site and plume area(s) is required as part of your study.

b) **Well Survey**

The preferential pathway study shall include a detailed well survey of all wells (monitoring and production wells: active, inactive, standby decommissioned (sealed with concrete), abandoned, (improperly decommissioned or lost); and dewatering and cathodic protection wells) within a ½ mile radius of the subject site. The well survey should include well data from California Department of Water Resource well database and Alameda County Department of Public Works. As part of your detailed well survey, please perform a background study of the historical land uses of the site and properties in the vicinity of the site. Use the results of your background study to determine the existence or unrecorded/unknown (abandoned) wells, which can act as pathways for migration of contamination at and/or from your site. Please review historical maps such as Sanborn maps, aerial photos, etc., when performing the background study. Submittal of map(s) showing the location of all wells identified in your study, and the use of tables to report the data collected as part of your survey are required. Include appropriate photographic prints, in stereo pairs, of historic aerial photos used as part of the study. We also request that you list by date all aerial photographs available for the site from the aerial survey company of library you use during your study. Please refer to the Regional Board's guidance for identification, location, and evaluation of potential deep well conduits when conducting your preferential pathway study. Present the result from the preferential pathway study in the report requested below.

9. **Geotracker EDF Submittals** - A review of the case file and the State Water Resources Control Board's (SWRCB) Geotracker website indicate that electronic copies of analytical data have not been submitted for your site. Pursuant to CCR Sections 2729 and 2729.1, beginning September 1, 2001, all analytical data, including monitoring well samples, submitted in a report to a regulatory agency as part of the LUFT program, must be transmitted electronically to the SWRCB Geotracker website via the internet. Additionally, beginning January 1, 2002, all permanent monitoring points utilized to collected groundwater samples (i.e. monitoring wells) and submitted in a report to a regulatory agency, must be surveyed (top of casing) to mean sea level and latitude and longitude accurate to within 1-meter accuracy, using NAD 83, and transmitted electronically to the SWRCB Geotracker website. Beginning July 1, 2005, electronic submittal of a complete copy of all reports is required in Geotracker (in PDF format). In order to remain in regulatory compliance, please upload all analytical data (collected on or after September 1, 2001), to the SWRCB's Geotracker database website in accordance with the above-cited regulation. Please perform the electronic submittals for applicable data and submit verification to this Agency by October 30, 2006.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Mr. Steven Plunkett), according to the following schedule:

- **October 30, 2006** – Revised Work Plan for Soil and Groundwater Investigation and Monitoring Well Rehabilitation Report.
- **November 30, 2006** – 4th Quarter 2006 Groundwater Monitoring Report
- **February 30, 2007** – 1st Quarter 2007 Groundwater Monitoring Report
- **May 30, 2007** – 2nd Quarter 2007 Groundwater Monitoring Report
- **August 30, 2007** – 3rd Quarter 2007 Groundwater Monitoring Report
- **November 30, 2007** – 4th Quarter 2006 Groundwater Monitoring Report
- **120 Days After Completion of Work Plan** – Soil and Groundwater Investigation, Preferential Pathway Study and Interim Remediation Work Plan

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program ftp site are provided on the attached "Electronic Report Upload (ftp) Instructions." Please do not submit reports as attachments to electronic mail.

Submission of reports to the Alameda County ftp site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. Submission of reports to the Geotracker website does not fulfill the requirement to submit documents to the Alameda County ftp site. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitor wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all necessary reports was required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

Should you have any questions, do not hesitate to call me at (510) 383-1767.

Sincerely,

Steven Plunkett
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Norman Ozaki
Soma Corporation
1412 62nd Street
Emeryville, CA 94608

Donna Drogos, ACEH
Steven Plunkett, ACEH
File

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

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

RO0000052

October 7, 2002

Mr. Dan Nourse
Wareham Property Group
1120 Nye Street, #400
San Rafael, CA 94901

Mr. Richard Robbins
1600 63rd St Assoc
1120 Nye Street, #400
San Rafael, CA 94901

RE: 1600 63rd Street, Emeryville, CA

Dear Messrs. Nourse and Robbins:

I have completed review of the case file for the above referenced site. Subsurface investigations conducted to date identified petroleum hydrocarbon contamination in groundwater in the vicinity of former Tank 1 and former Tank 2. Free product was noted in shallow groundwater in well MW-2 by Tank 1, and in the water supply well by Tank 2. The water supply well has been destroyed. The shallow groundwater monitoring wells are screened below groundwater elevation.

In Soma Corporation's report dated January 2000, titled *Groundwater Investigation Report and Workplan for Additional Investigations,* additional investigations were proposed to assess the extent of petroleum hydrocarbons at the downgradient (northwest) off-site area. Four grab groundwater sampling points were proposed downgradient of well MW-2. In addition, three new wells were proposed to replace existing wells that are screened below the groundwater table, and two new wells to confirm and monitor the extent of the plume downgradient of the site. This agency approves of the workplan. In addition, we are also requesting that the source of contamination in the deep aquifer be determined and the extent of the deep water plume be delineated. A deep aquifer investigation proposal can be submitted in a later workplan.

Field work for the shallow groundwater investigation should commence within 60 days of the date of this letter, or **by December 9, 2002.** Please provide at least 72 hours advance notice of field activities. If you have any questions, I can be reached at (510) 567-6762.

eva chu
Hazardous Materials Specialist

email: Glenn Leong, Treadwell & Rollo

peterson-1

20.052

Treadwell&Rollo
501 14th Street, 3rd Floor
Oakland, California 94612
Phone: 510/874-4500
Fax: 510/874-4507

AUG 29 2002

Date: 27 August 2002

Project No.: 3494.01

LETTER OF TRANSMITTAL

Attention: Eva Chu

Company: Alameda County Health Care Services Agency

Address: 1311 Harbor Way Parkway
Alameda, CA 94502

Subject: Additional 1600 63rd Street Documents

We are sending you ☒ **Attached** ☐ **Under separate cover**

Via ☒ **Mail** ☐ **Overnight Delivery** ☐ **Courier** ☐ _____

Submittal No.	Copies	No. of Pages	Description
1	1		SOMA. 1999. Shallow Ground-Water Investigation Results, 1600 63rd Street, Emeryville, California. July 20.
2	1		SOMA. 1998. Summary of Remedial Activities and Recommended Site Closure Measures, 1600 63rd Street, Emeryville, California. July 30.
3	1		Certified. 1994. Subsurface Investigation, 1600 63rd Street, Emeryville, California. November 22.
4	1		Harding Lawson Associates. 1989. Ground-Water Quality Investigations, 1600 63rd Street, Emeryville, California. October 2.

These are transmitted as checked below:

☐ **For approval** ☐ **For your use** ☒ **As requested**
☐ **For review and comment** ☐ _____

Remarks: Copies of requested documents.

Signed: _____ **Copy To:** _____
Glenn M. Leong Ext: 554

AZURE ENVIRONMENTAL

JEFF HENNIER, R.G.
PRINCIPAL HYDROGEOLOGIST

828 MISSION AVENUE
SAN RAFAEL, CA 94901

(415) 485-9740
FAX (415) 485-6062

SOMA CORPORATION

Glenn M. Leong
Vice President / Senior Scientist

1260B 45th Street • Emeryville, CA 94608
(510) 654-3900 • Fax (510) 654-1960

Chu, Eva, Env. Health

From: Chu, Eva, Env. Health
Sent: Wednesday, September 25, 2002 9:32 AM
To: Glenn Leong (E-mail)
Subject: 1600 63rd Street, Emeryville, CA

Hi Glenn,

I had a chance to review the case file for the above referenced site. Subsurface investigations conducted to date identified free product (TPH) in the former water supply well and in the vicinity of well MW-2. Groundwater generally flows to the west. Soma recommended that shallow wells with proper screen intervals be installed. In addition, grab groundwater samples are proposed to delineate the extent of the plume downgradient of well MW-2.

The proposed well replacement locations are acceptable. However, I feel that the extent of the deep water plume has not been adequately characterized with the one CPT advanced north, northwest of the former water well. Nor has the source of the contamination been determined. A proposal to better delineate the extent of the deep plume is required. A workplan for the installation of replacement wells and to characterize the deep water plume is required.

Before I send out a formal letter (if required), I wanted to see if you had any thoughts on the subject.

eva chu
Hazardous Materials Specialist
1131 Harbor Bay Parkway
(510) 567-6762
(510) 337-9335 (fax)

ALAMEDA COUNTY HAZARDOUS MATERIALS DIVISION

01/14/99

UNDERGROUND STORAGE TANK CLEANUP SITE

AGENCY#: 10000 SOURCE OF FUNDS: F-FEDERAL INSPECTOR: SH
StID: 147 SUBSTANCE: 8006619 -Gasoline
SITE NAME: Peterson Manufacturing Co.Inc. DATE REPORTED : 02/01/88
ADDRESS : 1600 63rd St DATE CONFIRMED: 02/01/88
CITY/ZIP : Emeryville, CA 94608 MULTIPLE RP's : Y

CASE TYPE: O CONTRACT STATUS: 4 PRIOR:2B4 EMERGENCY RESPONSE: -0-

RP SEARCH	: S		DATE END: 03/17/92
PRELIM ASSESSMENT	: U	DATE BEGIN: 12/01/88	DATE END: -0-
REMEDIAL INVESTIG	: -	DATE BEGIN: -0-	DATE END: -0-
REMEDIAL ACTION	: -	DATE BEGIN: -0-	DATE END: -0-
POST REMED MONITOR	: -	DATE BEGIN: -0-	DATE END: -0-

TYPE ENFORCEMENT ACTION TAKEN: 2 DATE OF ENFORC. ACTION: 06/21/95

UNDERGROUND STORAGE TANK CLEANUP SITE - SCREEN #2

LUFT FIELD MANUAL CONSIDERATION: 3H CASE CLOSED: - on: -0-

DT EXC START: -0- REMEDIAL ACTIONS TAKEN: IT

RP #1: CONTACT: Dan Nourse RP COST: -0-
RP COMPANY NAME: Wareham Property Group Ph: -0-
ADDRESS: 1120 Nye St. #400
CITY/STATE: San Rafael, C A 94901

⌂BaMENT:

SITE ID#: 147

ADDITIONAL RP'S

RP #2
CONTACT NAME: Richard Robbins
COMPANY NAME: 1600-63rd St. Assoc. RP Ph: -0-
ADDRESS: 1120 Nye St. #400
CITY/ST/ZIP: San Rafael, C A 94901

Hugo, Susan, Public Health, EH

From: soma [soma@slip.net]
Sent: Tuesday, January 12, 1999 10:00 AM
To: SHugo@co.alameda.ca.us
Cc: dnourse@warehamdevelopment.com
Subject: Status of 1600 63rd Street Project

Susan,

Due to financial issues surrounding the property, we need to get your input on the 1600 63rd Street project as soon as possible. As you will remember, we were planning on performing another round of shallow groundwater well sampling prior to proposed closure of the wells. Additionally, we are planning to collect a deeper aquifer groundwater sample. You were going to check with the Regional Water Quality Control Board regarding there stance on the collection of a deeper groundwater sample. Also, you were going to review your files for other Emeryville projects for comparable deep aqufer chemical data (we did not want our client to be liable for regional deep aquifer chemical issues).

Please let me know if we should proceed with our plan - we have been holding off on the shallow groundwater work so that we can initiate it all at once.

Thanks for your help.

Glenn Leong
SOMA Corporation
1260B 45th Street
Emeryville, CA 94608
(510) 654-3900
(510) 654-1960 - Fax
soma@slip.net

SOMA CORPORATION

August 28, 2000

SOMA 96-3081

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Subject: Status of Review of Report for 1600 63rd Street/Fedex Site in Emeryville, California

Dear Susan,

SOMA Corporation's report entitled *"Groundwater Investigation Report and Workplan for Additional Investigations"* for the 1600 63rd Street Site in Emeryville was submitted to you for your review and comment on January 10, 2000. The report documented the investigation work completed to date for both the shallow and deeper groundwater investigations. The report also included proposed additional groundwater investigation activities.

We are still waiting for completion of your review so that we may initiate the next phase of work. Please let me know if there is any additional information I can provide to expedite your review of the report. If you have any questions, please call me at (510) 654-3900 or fax comments or suggestions to (510) 654-1960.

Sincerely,

Glenn M. Leong
Vice President and Senior Scientist

cc: Rich Robbins, 1600 63rd Street Associates, Inc.

1412 62nd Street• Emeryville, CA 94608
(510) 654-3900 • FAX (510) 654-1960

LOP - CHANGE RECORD REQUEST FORM

printed: 05/01/2000

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

Insp:

AGENCY # : 10000 SOURCE OF FUNDS: F SUBSTANCE: 8006619
StID : 147 LOC:
SITE NAME: Peterson Manufacturing Co.Inc. DATE REPORTED : 02/01/1988
ADDRESS : 1600 63rd St DATE CONFIRMED: 02/01/1988
CITY/ZIP : Emeryville 94608 MULTIPLE RPs : Y

SITE STATUS

CASE TYPE: O CONTRACT STATUS: 4 PRIOR CODE:2B4 EMERGENCY RESP:
RP SEARCH: S DATE COMPLETED: 03/17/1992
PRELIMINARY ASMNT: U DATE UNDERWAY: 12/01/1988 DATE COMPLETED:
REM INVESTIGATION: DATE UNDERWAY: DATE COMPLETED:
REMEDIAL ACTION: DATE UNDERWAY: DATE COMPLETED:
POST REMED ACT MON: DATE UNDERWAY: DATE COMPLETED:

ENFORCEMENT ACTION TYPE: 2 DATE ENFORCEMENT ACTION TAKEN: 06/21/1995
LUFT FIELD MANUAL CONSID: 3H
CASE CLOSED: DATE CASE CLOSED:
DATE EXCAVATION STARTED : REMEDIAL ACTIONS TAKEN: IT

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME: Dan Nourse
COMPANY NAME: Wareham Property Group
ADDRESS: 1120 Nye St. #400
CITY/STATE: San Rafael, C A 94901

RP#2-CONTACT NAME: Richard Robbins
COMPANY NAME: 1600-63rd St. Assoc.
ADDRESS: 1120 Nye St. #400
CITY/STATE: San Rafael, C A 94901

INSPECTOR VERIFICATION:

NAME _____ SIGNATURE _____ DATE _____

DATA ENTRY INPUT:

Name/Address Changes Only

ANNPGMS _____ LOP____ DATE _____

Case Progress Changes

LOP _____ DATE _____

ALAMEDA COUNTY ENVIRONMENTAL HEALTH / HAZARDOUS MATERIALS DIVISION
1131 HARBOR BAY PKWY., RM. 250, ALAMEDA, CA 94502-6577 (510)567-6700 FAX (510) 337-9355

HAZARDOUS WASTE GENERATOR INSPECTION REPORT

STID #: 147	FACILITY NAME: Federal Express - 1602 63rd St Emeryville	PG 1 OF 1

SUPPLEMENTAL FORM

On Site for the removal of 1-550 gal waste oil tank. Knoxes manufactured steel tank, appeared to be in good condition. no visible holes.
Fill line inside bldg was permanently capped w/ concrete. Two soil samples were collected, one from each end of UST. One sample collected from stockpiled soil. Stockpiled soil was allowed to be put back into excavation due to safety concerns.
Tank manifest # 99554354

George Ubarra - Emeryville Fire on Site.

PRINT NAME:	INSPECTED BY: Susan Hugo
SIGNATURE:	DATE: 1/14/2002

GEN/SUPP RPT(REV 7/94) JNS /BCO

TANK REMOVED 1/14/2000 SH

1/20/2000
Eveline:
This is the Form B for a tank removed last 1/14/2000 at Fed Express 1600 63rd Street in Emeryville
Susan

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

ID STORAGE TANK PERMIT APPLICATION - FORM B

MPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

3 RENEWAL PERMIT ☐ 5 CHANGE OF INFORMATION ☐ 7 PERMANENTLY CLOSED ON SITE
4 AMENDED PERMIT ☐ 6 TEMPORARY TANK CLOSURE ☒ 1 TANK REMOVED

FEDERAL EXPRESS

SPECIFY IF UNKNOWN

B. MANUFACTURED BY: KONKEA
D. TANK CAPACITY IN GALLONS: 550 GAL

ETE ITEM C.

IPTY / KNOWN
B. ☐ 1 PRODUCT ☒ 2 WASTE
C. ☐ 1a REGULAR UNLEADED ☐ 1b PREMIUM UNLEADED ☐ 1c MIDGRADE UNLEADED ☐ 2 LEADED ☐ 3 DIESEL ☐ 4 GASAHOL ☐ 5 JET FUEL ☐ 99 OTHER (DESCRIBE IN ITEM D. BELOW) ☐ 6 AVIATION GAS ☐ 7 METHANOL ☐ 8 M85

STORED 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	☒ 1 DOUBLE WALL	☐ 3 SINGLE WALL WITH EXTERIOR LINER	☐ 5 INTERNAL BLADDER SYSTEM	☐ 95 UNKNOWN	
	☐ 2 SINGLE WALL	☐ 4 SINGLE WALL IN A VAULT	☐ 99 OTHER		
B. TANK MATERIAL (Primary Tank)	☐ 1 BARE STEEL	☐ 2 STAINLESS STEEL	☒ 3 FIBERGLASS	☐ 4 STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC	
	☐ 5 CONCRETE	☐ 6 POLYVINYL CHLORIDE	☐ 7 ALUMINUM	☐ 8 100% METHANOL COMPATIBLE W/FRP	
	☐ 9 BRONZE	☐ 10 GALVANIZED STEEL	☐ 95 UNKNOWN	☐ 99 OTHER	
C. INTERIOR LINING OR COATING	☐ 1 RUBBER LINED	☐ 2 ALKYD LINING	☐ 3 EPOXY LINING	☐ 4 PHENOLIC LINING	
	☐ 5 GLASS LINING	☒ 6 UNLINED	☐ 95 UNKNOWN	☐ 99 OTHER	
	IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___				
D. EXTERIOR CORROSION PROTECTION	☐ 1 POLYETHYLENE WRAP	☐ 2 COATING	☐ 3 VINYL WRAP	☒ 4 FIBERGLASS REINFORCED PLASTIC	
	☐ 5 CATHODIC PROTECTION	☐ 91 NONE	☐ 95 UNKNOWN	☐ 99 OTHER	
E. SPILL AND OVERFILL, etc.	SPILL CONTAINMENT INSTALLED (YEAR) 1988 DROP TUBE YES N/A NO ___		OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) 1988 STRIKER PLATE YES ✓ NO ___	DISPENSER CONTAINMENT YES N/A NO ___	

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 4 FLEXIBLE PIPING	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 MECHANICAL LINE LEAK DETECTOR	☐ 2 LINE TIGHTNESS TESTING	☐ 3 CONTINUOUS INTERSTITIAL MONITORING	☐ 4 ELECTRONIC LINE LEAK DETECTOR	☐ 5 AUTOMATIC PUMP SHUTDOWN ☐ 99 OTHER KEEP UNDER ALARM

V. TANK LEAK DETECTION

☐ 1 VISUAL CHECK	☐ 2 MANUAL INVENTORY RECONCILIATION	☐ 3 VADOZE MONITORING	☐ 4 AUTOMATIC TANK GAUGING	☐ 5 GROUND WATER MONITORING	☐ 6 ANNUAL TANK TESTING
☒ 7 CONTINUOUS INTERSTITIAL MONITORING	☐ 8 SIR	☐ 9 WEEKLY MANUAL TANK GAUGING	☐ 10 MONTHLY TANK TESTING	☐ 95 UNKNOWN	☐ 99 OTHER

VI. TANK CLOSURE INFORMATION (PERMANENT CLOSURE IN-PLACE)

1. ESTIMATED DATE LAST USED (MO/DAY/YR)	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING ___ GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? YES ☐ NO ☐

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

TANK OWNER'S NAME (PRINTED & SIGNATORE)	DATE
JACK BAILEY Jack Bailey	1/20/00

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. FORM C MUST BE COMPLETED FOR INSTALLATIONS. THIS FORM SHOULD BE ACCOMPANIED BY A PLOT PLAN. FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

FORM B (6-95)

TANK REMOVED 1/14/2000

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B

COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONE ITEM							
	☐ 1 NEW PERMIT	☐ 3 RENEWAL PERMIT	☐ 5 CHANGE OF INFORMATION	☐ 7 PERMANENTLY CLOSED ON SITE
	☐ 2 INTERIM PERMIT	☐ 4 AMENDED PERMIT	☐ 6 TEMPORARY TANK CLOSURE	☒ 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: FEDERAL EXPRESS

I. TANK DESCRIPTION

COMPLETE ALL ITEMS -- SPECIFY IF UNKNOWN

A. OWNER'S TANK I. D. #	B. MANUFACTURED BY: XOMXES
C. DATE INSTALLED (MO/DAY/YEAR) 1988	D. TANK CAPACITY IN GALLONS: 550 GAL

II. TANK CONTENTS

IF A-1 IS MARKED, COMPLETE ITEM C.

A.			B.	C.		
☐ 1 MOTOR VEHICLE FUEL	☒ 4 OIL		☐ 1 PRODUCT	☐ 1a REGULAR UNLEADED	☐ 3 DIESEL	☐ 6 AVIATION GAS
☐ 2 PETROLEUM	☐ 80 EMPTY		☒ 2 WASTE	☐ 1b PREMIUM UNLEADED	☐ 4 GASAHOL	☐ 7 METHANOL
☐ 3 CHEMICAL PRODUCT	☐ 95 UNKNOWN			☐ 1c MIDGRADE UNLEADED	☐ 5 JET FUEL	☐ 8 M85
				☐ 2 LEADED	☐ 99 OTHER (DESCRIBE IN ITEM D. BELOW)	

D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED — 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	☒ 1 DOUBLE WALL	☐ 3 SINGLE WALL WITH EXTERIOR LINER	☐ 5 INTERNAL BLADDER SYSTEM	☐ 95 UNKNOWN
	☐ 2 SINGLE WALL	☐ 4 SINGLE WALL IN A VAULT	☐ 99 OTHER	
B. TANK MATERIAL (Primary Tank)	☐ 1 BARE STEEL	☐ 2 STAINLESS STEEL	☒ 3 FIBERGLASS	☐ 4 STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC
	☐ 5 CONCRETE	☐ 6 POLYVINYL CHLORIDE	☐ 7 ALUMINUM	☐ 8 100% METHANOL COMPATIBLE W/FRP
	☐ 9 BRONZE	☐ 10 GALVANIZED STEEL	☐ 95 UNKNOWN	☐ 99 OTHER
C. INTERIOR LINING OR COATING	☐ 1 RUBBER LINED	☐ 2 ALKYD LINING	☐ 3 EPOXY LINING	☐ 4 PHENOLIC LINING
	☐ 5 GLASS LINING	☒ 6 UNLINED	☐ 95 UNKNOWN	☐ 99 OTHER
	IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___			
D. EXTERIOR CORROSION PROTECTION	☐ 1 POLYETHYLENE WRAP	☐ 2 COATING	☐ 3 VINYL WRAP	☒ 4 FIBERGLASS REINFORCED PLASTIC
	☐ 5 CATHODIC PROTECTION	☐ 91 NONE	☐ 95 UNKNOWN	☐ 99 OTHER
E. SPILL AND OVERFILL, etc.	SPILL CONTAINMENT INSTALLED (YEAR) 1988		OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) 1988	
	DROP TUBE YES ☒ NO ___	STRIKER PLATE YES ☒ NO ___	DISPENSER CONTAINMENT YES N/A NO ___	

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 4 FLEXIBLE PIPING	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 MECHANICAL LINE LEAK DETECTOR	☐ 2 LINE TIGHTNESS TESTING	☐ 3 CONTINUOUS INTERSTITIAL MONITORING	☐ 4 ELECTRONIC LINE LEAK DETECTOR	☐ 5 AUTOMATIC PUMP SHUTDOWN ☐ 99 OTHER

V. TANK LEAK DETECTION

☐ 1 VISUAL CHECK	☐ 2 MANUAL INVENTORY RECONCILIATION	☐ 3 VADOZE MONITORING	☐ 4 AUTOMATIC TANK GAUGING	☐ 5 GROUND WATER MONITORING	☐ 6 ANNUAL TANK TESTING
☒ 7 CONTINUOUS INTERSTITIAL MONITORING	☐ 8 SIR	☐ 9 WEEKLY MANUAL TANK GAUGING	☐ 10 MONTHLY TANK TESTING	☐ 95 UNKNOWN	☐ 99 OTHER

VI. TANK CLOSURE INFORMATION (PERMANENT CLOSURE IN-PLACE)

1. ESTIMATED DATE LAST USED (MO/DAY/YR)	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING ___ GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? YES ☐ NO ☐

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

TANK OWNER'S NAME (PRINTED & SIGNATURE)	DATE
JACK BAILEY	12-6-99

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. FORM C MUST BE COMPLETED FOR INSTALLATIONS. THIS FORM SHOULD BE ACCOMPANIED BY A PLOT PLAN. FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

INSTRUCTIONS FOR COMPLETING FORM "B"

GENERAL INSTRUCTIONS

Section 2711 of Title 23, Division 3, Chapter 16, California Code of Regulations and sections 25286, 25287, and 25289 of Chapter 6.7, Division 20, Health and Safety Code require tank owners to apply for an UST operating permit.

1. One FORM "B" shall be completed for each tank for all NEW PERMITS, PERMIT CHANGES, REMOVALS and/or any other TANK INFORMATION CHANGE.
2. This form should be completed by either the PERMIT APPLICANT or the LOCAL AGENCY UNDERGROUND TANK INSPECTOR.
3. Please type or print clearly all requested information.
4. Use a hard point writing instrument, you are making 3 copies.
5. Tank owners must submit a plot plan to the local agency showing the location of the USTs with respect to buildings and landmarks [2711 (a)(8) CCR].
6. Tank owners must submit documentation showing compliance with state financial responsibility requirements to the local agency for petroleum USTs [2711 (a)(11) CCR].

TOP OF FORM: MARK ONLY ONE ITEM

1. Mark an (X) in the box next to the item that best describes the reason the form is being completed.
2. Indicate the DBA or Facility name where the tank is installed.

I. TANK DESCRIPTION - COMPLETE ALL ITEMS - IF UNKNOWN - SO SPECIFY

A. Indicate owners tank ID # - If there is a tank number that is used by the owner to identify the tank (ex. AB70789).
B. Indicate the name of the company that manufactured the tank (ex. ACME TANK MFG).
C. Indicate the year the tank was installed (ex. 1987).
D. Indicate the tank capacity in gallons (ex. 25,000 or 10,000 etc.).

II. TANK CONTENTS

A. 1. IF MOTOR VEHICLE FUEL, check box 1 and complete items B & C.
2. If not MOTOR VEHICLE FUEL, check the appropriate box in section A and complete items B & D.
B. Check the appropriate box.
C. Check the type of MOTOR VEHICLE FUEL (if box 1 is checked in A).
D. Print the chemical name of the hazardous substance stored in the tank and the C.A.S.#. (Chemical Abstract Service number), if box 1 is NOT checked in A.

III. TANK CONSTRUCTION - MARK ONE ITEM ONLY IN BOX A, B, C & D

1. Check only one item in TYPE OF SYSTEM, TANK MATERIAL, INTERIOR LINING and CORROSION PROTECTION.
2. If OTHER, print in the space provided.

IV. PIPING INFORMATION

1. Circle "A" if above ground circle "U" if underground, and circle both if applicable.
2. If UNKNOWN circle; or if OTHER, print in space provided.
3. Indicate the LEAK DETECTION system(s) used to comply with the monitoring requirement for the piping.

V. TANK LEAK DETECTION

1. Indicate the LEAK DETECTION system(s) used to comply with the monitoring requirements for the tank.

VI. INFORMATION ON TANK PERMANENTLY CLOSED IN PLACE

1. ESTIMATED DATE LAST USED - MONTH/YEAR (January, 1988 or 01/88)
2. ESTIMATED QUANTITY of HAZARDOUS SUBSTANCE remaining in the tank (in Gallons).
3. WAS TANK FILLED WITH INERT MATERIAL? Check "Yes" or "No".

TANK OWNER OR AUTHORIZED REPRESENTATIVE MUST SIGN AND DATE THE FORM AS INDICATED [see section 2711 (a)(13) CCR]

INSTRUCTION FOR THE LOCAL AGENCIES

The state underground storage tank identification number is composed of the two digit county number, the three digit jurisdiction number, the six digit facility number and the six digit tank number. The county and jurisdiction numbers are predetermined and can be obtained by calling the State Board (916) 227-4303. The facility number must be the same as shown in form "A". The tank number may be assigned by the local agency, however, this number must be numerical and cannot contain an alphabet. If the local agency prefers the State Board to assign the tank number, please leave it blank.

IT IS THE RESPONSIBILITY OF THE LOCAL AGENCY THAT INSPECTS THE FACILITY TO VERIFY THE ACCURACY OF THE INFORMATION. THE LOCAL AGENCY IS RESPONSIBLE FOR THE COMPLETION OF THE "LOCAL AGENCY USE ONLY" INFORMATION BOX. THE LOCAL AGENCY SHOULD RETAIN THE ORIGINAL AND YELLOW COPIES. THE PINK COPY SHOULD BE RETAINED BY THE TANK OWNER.

DEPARTMENT OF ENVIRONMENTAL HEALTH
ENVIRONMENTAL PROTECTION DIVISION
1131 HARBOR BAY PARKWAY, RM 250
ALAMEDA, CA 94502-6577
PHONE # 510/567-6700
FAX # 510/337-9335

Project Specialist

ACCEPTED
Underground Storage Tank Closure Permit Application
Alameda County Division of Hazardous Materials
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

These closure/removal plans have been received and found to be acceptable and essentially meet the requirements of State and Local Health Laws. Changes to your closure plans indicated by this Department are to assure compliance with State and local laws. The project proposed herein is now released for issuance of any required building permits for construction/destruction.
One copy of the accepted plans must be on the job and available to all contractors and craftsmen involved with the removal.
Any changes or alterations of these plans and specifications must be submitted to this this Department and to the Fire and Building Inspections Department to determine if such changes meet the requirements of State and local laws.
Notify this Department at least 72 hours prior to the following required inspections:

- Removal of Tank(s) and Piping
- Sampling
- Final Inspection

Issuance of a) permit to operate, b) permanent site closure, is dependent on compliance with accepted plans and all applicable laws and regulations.

THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS.

Contact Specialist: RW Eston

DEC 06 1999

LOP147

#9955435

UNDERGROUND TANK CLOSURE PLAN

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

1. Name of Business FEDERAL EXPRESS

   Business Owner or Contact Person **(PRINT)** JACK BAIL (510) 889-7888

2. Site Address 1600 63RD STREET

   City EMERYVILLE Zip 94608 Phone (510) 547-8503

3. Mailing Address SAME

   City _____ Zip _____ Phone _____

4. Property Owner RICHARD ROBBINS 1600 63RD ST. ASSOCIATES

   Business Name (if applicable) C/O WAREHAM DEVELOPMENT

   Address 1120 NYO ST. SUITE 400

   City, State SAN RAFAEL, CA. Zip 94901

5. Generator name under which tank will be manifested

   FEDERAL EXPRESS

   EPA ID# under which tank will be manifested CAD 982030173

rev 4/6/95

550 gal

6. Contractor PEARSON EQUIPMENT & MAINTENANCO Co.

Address 18305 LAKE CHABOT RD.

City CASTRO VALLEY, CA. 94546 Phone (510) 889-7888

License Type* A-Cal/D40 HAZ ID# 630936

***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.**

7. Consultant (if applicable) N/A

Address _____

City, State _____ Phone _____

8. Main Contact Person for Investigation (if applicable)

Name N/A Title _____

Company _____

Phone _____

9. Number of underground tanks being closed with this plan 1

Length of piping being removed under this plan 10'

Total number of underground tanks at this facility (**confirmed with owner or operator) 2

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

**** Underground storage tanks must be handled as hazardous waste ****

a) Product/Residual Sludge/Rinsate Transporter

Name CLEARWATER ENVIRONMENTAL EPA I.D. No. CAR000007013

Hauler License No. _____ License Exp. Date _____

Address P.O. BOX 7420

City FREMONT State CA. Zip 94537

b) Product/Residual Sludge/Rinsate Disposal Site

Name REFINERY SERVICE EPA ID# _____

Address _____

City PATTERSON State CA Zip _____

c) Tank and Piping Transporter

Name ECI EPA I.D. No. CAD009466392

Hauler License No. _____ License Exp. Date _____

Address 255 PARR BLVD.

City RICHMOND State CA. Zip 94801

d) Tank and Piping Disposal Site

Name ECI. EPA I.D. No. _____

Address SAME AS ABOVE

City _____ State _____ Zip _____

11. Sample Collector

Name BLAINE TECH SERVICES

Company S S S

Address 1680 ROGERS AVE

City SAN JOSE State CA. Zip 95112 Phone (408) 573-0555

12. Laboratory

Name SEQUOIA ANALYTICAL

Address 885 JARVIS AVE

City MORGAN HILL State CA Zip 95037

State Certification No. 1210

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

If yes, describe. _____

14. Describe methods to be used for rendering tank(s) inert:

DRY ICE

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 permanently plugged.

The Bay Area Air Quality Management District, 415/771-6000, along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of a combustible gas indicator to verify tank inertness. **It is the contractor's responsibility to bring a working combustible gas indicator on-site to verify that the tank is inert.**

15. Tank History and Sampling Information ***** (see instructions) *****

Tank		Material to be sampled (tank contents, soil, groundwater)	Location and Depth of Samples
Capacity	Use History include date last used (estimated)		
550 GAL	12/6/99	SOIL H2O if present	BENEATH TANK AT APPROX. 8-9'.

18. Submit Worker's Compensation Certificate copy

Name of Insurer ZENITH

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 written report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report (ULR) form.

22. **Submit a closure report to this office within 60 days of the tank removal. The report must contain all information listed in item 22 of the instructions.**

23. Submit State (Underground Storage Tank Permit Application) Forms A and B (one B form for each UST to be removed) (mark box 8 for "tank removed" in the upper right hand corner)

I declare that to the best of my knowledge and belief that 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 approval from the Environmental Protection Division

Excavated/Stockpiled Soil	
Stockpiled Soil Volume (estimated) 10 YDS	Sampling Plan 1 DISCRETE

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

Will the excavated soil be returned to the excavation immediately after tank removal? [X] yes [ ] no [ ] unknown

If yes, explain reasoning REMOVE SAFETY LIABILITY & TO FACILITATE ~~THROUGH~~ TRAFFIC EGRESS

If unknown at this point in time, please be aware that **excavated soil may not be returned to the excavation without prior approval from Alameda County. This means that the contractor, consultant, or responsible party must communicate with the Specialist IN ADVANCE of backfilling operations.**

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.

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

Contaminant Sought	EPA or Other Sample Preparation Method Number	EPA or Other Analysis Method Number	Method Detection Limit
WASTE OIL COMPOUNDS	TPH g TPH D	8015/8020	1.0
	BTEX	" "	0.005
	TOG	~~SM5520~~ 5520 D+F	50.0
	LUFT 5 - METALS	6010	
	MTBE	8260	
	CHLORINATED HYDROCARBONS	(8010)	
	~~EDB~~	"	
	~~EDC~~	"	

18. Submit Worker's Compensation Certificate copy

Name of Insurer ZENITH

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 written report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report (ULR) form.

22. **Submit a closure report to this office within 60 days of the tank removal. The report must contain all information listed in item 22 of the instructions.**

23. Submit State (Underground Storage Tank Permit Application) Forms A and B (one B form for each UST to be removed) (mark box 8 for "tank removed" in the upper right hand corner)

I declare that to the best of my knowledge and belief that 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 approval from the Environmental Protection Division 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.

CONTRACTOR INFORMATION

Name of Business PEARSON EQUIPMENT & MAINTENANCE CO.

Name of Individual JACK BAIL

Signature _____ Date 12-6-99

PROPERTY OWNER OR MOST RECENT TANK OPERATOR (Circle one)

Name of Business FEDERAL EXPRESS

Name of Individual JACK BAIL AGENT FOR OPERATOR

Signature _____ Date 12-6-99

General Instructions

* Three (3) copies of this plan plus attachments and a deposit must be submitted to this Department.
* Any cutting into tanks requires local fire department approval.
* One complete copy of your approved plan must be at the construction site at all times; a copy of your approved plan must also be sent to the landowner.
* State of California Permit Application Forms A and B are to be submitted to this office. One Form A per site, one Form B for each removed tank.

Line Item Specific Instructions

2. SITE ADDRESS
   Address at which closure is taking place.

5. EPA I.D. NO. under which the tanks will be manifested
   EPA I.D. numbers may be obtained from the State Department of Toxic Substances Control, 916/324-1781.

6. CONTRACTOR
   Prime contractor for the project.

10. STATE REGISTERED HAZARDOUS WASTE TRANSPORTERS/FACILITIES

    a) All residual liquids and sludges are to be removed from tanks before tanks are inerted.

    c) Tanks must be hauled as hazardous waste.

    d) This is the place where tanks will be taken for cleaning.

15. TANK HISTORY AND SAMPLING INFORMATION
    Use History - This information is essential and must be accurate. Include tank installation date, products stored in the tank, **and the date when the tank was last used.**

    Material to be sampled - e.g. water, oil, sludge, soil, etc.

    Location and depth of samples - e.g. beneath the tank a maximum of two feet below the native soil/backfill interface, side wall at the high water mark, etc.

NOTE: These requirements are excerpts from 29 CFR Part 1910.120(b)(4), Hazardous Waste Operations and Emergency Response; Final Rule, March 6, 1989. Safety plans of certain underground tank sites may need to meet the complete requirements of this Rule.

19. PLOT PLAN
The plan should consist of a scaled view of the facility at which the tank(s) are located and should include the following information:

a) Scale;

b) North Arrow;

c) Property Lines;

d) Location of all Structures;

e) Location of all relevant existing equipment including tanks and piping to be removed and dispensers;

f) Streets;

g) Underground conduits, sewers, water lines, utilities;

h) Existing wells (drinking, monitoring, etc.);

i) Depth to ground water; and

j) All existing tank(s) and piping in addition to the tank(s) being removed.

20. DEPOSIT
A deposit, payable to "County of Alameda" for the amount indicated on the Alameda County Underground Storage Tank Fee Schedule, must accompany the plans.

21. Blank Unauthorized Leak/Contamination Site Report forms may be obtained in limited quantities from this office or from the San Francisco Bay Regional Water Quality Control Board (510/286-1255). Larger quantities may be obtained directly from the State Water Resources Control Board at (916) 739-2421.

22. TANK CLOSURE REPORT
The tank closure report should contain the following information:

a) General description of the closure activities;

b) Description of tank, fittings and piping conditions. Indicate tank size and former contents; note any corrosion, pitting, holes, etc.;

TABLE #2
RECOMMENDED MINIMUM VERIFICATION ANALYSES FOR UNDERGROUND TANK LEAKS

HYDROCARBON LEAK	SOIL ANALYSIS	WATER ANALYSIS
Unknown Fuel	TPH G GCFID(5030) TPH D GCFID(3550) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH G GCFID(5030) TPH D GCFID(3510) BTX&E 602, 624 or 8260
Leaded Gas	TPH G GCFID(5030) BTX&E 8020 OR 8240 TPH AND BTX&E 8260 TOTAL LEAD AA ------Optional------- TEL DHS-LUFT EDB DHS-AB1803	TPH G GCFID(5030) BTX&E 602 or 624 TOTAL LEAD AA TEL DHS-LUFT EDB DHS-AB1803
Unleaded Gas	TPH G GCFID(5030) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH G GCFID(5030) BTX&E 602, 624 or 8260
Diesel, Jet Fuel and Kerosene	TPH D GCFID(3550) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH D GCFID(3510) BTX&E 602, 624 or 8260
Fuel/Heating Oil	TPH D GCFID(3550) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH D GCFID(3510) BTX&E 602, 624 or 8260
Chlorinated Solvents	CL HC 8010 or 8240 BTX&E 8020 or 8240 CL HC AND BTX&E 8260	CL HC 601 or 624 BTX&E 602 or 624 CL HC AND BTX&E 8260
Non-chlorinated Solvents	TPH D GCFID(3550) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH D GCFID(3510) BTX&E 602 or 624 TPH and BTX&E 8260
Waste and Used Oil or Unknown (All analyses must be completed and submitted)	TPH G GCFID(5030) TPH D GCFID(3550) TPH AND BTX&E 8260 O & G 5520 D & F BTX&E 8020 or 8240 CL HC 8010 or 8240 ICAP or AA TO DETECT METALS: Cd, Cr, Pb, Zn, Ni METHOD 8270 FOR SOIL OR WATER TO DETECT: PCB* PCP* PNA CREOSOTE	TPH G GCFID(5030) TPH D GCFID(3510 O & G 5520 B & F BTX&E 602, 624 or 8260 CL HC 601 or 624 PCB PCP PNA CREOSOTE

* If found, analyze for dibenzofurans (PCBs) or dioxins (PCP)

Reference: Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites, 10 August 1990

Based upon a Regional Board survey of Department of Health Services Certified Laboratories, the Practical Quantitation Reporting Limits are attainable by a majority of laboratories with the exception of diesel fuel in soils. The Diesel Practical Quantitation Reporting Limits, shown by the survey, are:

ROUTINE	MODIFIED PROTOCOL
≤ 10 ppm (42%)	≤ 10 ppm (10%)
≤ 5 ppm (19%)	≤ 5 ppm (21%)
≤ 1 ppm (35%)	≤ 1 ppm (60%)

When the Practical Quantitation Reporting Limits are not achievable, an explanation of the problem is to be submitted on the laboratory data sheets.

10. LABORATORY DATA SHEETS are to be signed and submitted and include the laboratory's assessment of the condition of the samples on receipt including temperature, suitable container type, air bubbles present/absent in VOA bottles, proper preservation, etc. The sheets are to include the dates sampled, submitted, prepared for analysis, and analyzed.

11. IF PEAKS ARE FOUND, when running samples, that do not conform to the standard, laboratories are to report the peaks, including any unknown complex mixtures that elute at times varying from the standards. Recognizing that these mixtures may be contrary to the standard, they may not be readily identified; however, they are to be reported. At the discretion of the LIA or Regional Board the following information is to be contained in the laboratory report:

    The relative retention time for the unknown peak(s) relative to the reference peak in the standard, copies of the chroma- togram(s), the type of column used, initial temperature, temperature program is C/minute, and the final temperature.

12. REPORTING LIMITS FOR TPH are: gasoline standard ≤ 20 carbon atoms, diesel and jet fuel (kerosene) standard ≤ 50 carbon atoms. It is not necessary to continue the chromatography beyond the limit, standard, or EPA/DHS method protocol (whichever time is greater).

EPILOGUE

ADDITIVES: Major oil companies are being encouraged or required by the federal government to reformulate gasoline as cleaner burning fuels to reduce air emissions. MTBE (Methyl-tertiary butyl ether), ETHANOL (ethyl alcohol), and other chemicals may be added to reformulate gasolines to increase the oxygen content in the fuel and thereby decrease undesirable emissions (about four percent with MTBE). MTBE and ethanol are, for practical purposes, soluble in water. The removal from the water column will be difficult. Other compounds are being added by the oil companies for various purposes. The refinements for detection and analysis for all of these additives are still being worked out. If you have any questions about the methodology, please call your Regional Board representative.

ALAMEDA COUNTY ENVIRONMENTAL PROTECTION DIVISION

DECLARATION OF SITE ACCOUNT REFUND RECIPIENT

There may be excess funds remaining in the Site Account at the completion of this project. The PAYOR (person or company that issues the check) will use this form to predesignate another party to receive any funds refunded at the completion of this project. In the absence of this form, the PAYOR will receive the refund.

SITE INFORMATION:

Site ID Number
(if known)

FEDERAL EXPRESS
Name of Site

1600 63RD STREET
Street Address

EMERYVILLE CA. 94608
City, State & Zip Code

I designate the following person or business to receive any refund due at the completion of all deposit/refund projects:

JACK BAIL - PEARSON EQUIPMENT & MAINTENANCE CO.
Name

18305 LAKE CHABOT RD.
Street Address

CASTRO VALLEY CA. 94546
City, State & Zip Code

Signature of Payor

12-6-99
Date

JACK BAIL
Name of Payor
(PLEASE PRINT CLEARLY)

PEARSON EQUIPMENT
Company Name of Payor

RETURN FORM TO:
County of Alameda, Environmental Protection
1131 Harbor Bay Parkway, Rm 250
Alameda CA 94502-6577
Phone#(510) 567-6700

PEARSON EQUIPMENT & MAINTENANCE COMPANY

Complete Fueling Systems Installation & Maintenance

Office:
18305 Lake Chabot Road
Castro Valley, CA 94546
Phone / Fax (510) 889-7888

California State Contractors License No. 630936
Classification: General Engineering A - C61/D40 HAZ

Shop:
614 West Julian St.
San Jose, CA 95126
(408) 293-4359

SCOPE OF WORK

Job Number: 9302

Date: December 6, 1999

Site Address: Federal Express - JEMA
1600 63rd Street
Emeryville, CA 94608

Furnish necessary labor, equipment and materials for the removal and disposal of 1 - 500 gallon underground double-wall fiberglass waste oil tank and related piping.

Submit closure plan and obtain permit from City of Emeryville Fire and Alameda County Evironmental Health Department.

Saw cut as needed, breakout and remove concrete slab over tank. Pump out of remaining product from tank by others. Degas tank with dry ice. Excavate backfill material from top and sides of tank and stockpile on site, expose and remove pipelines, risers, etc. At the time of the removal arrange for required inspection with Emeryville Fire, Alameda County and have Blaine Tech Services on site to collect soil samples as directed by the inspector. Prior to removing tank, measure oxygen and lel concentration limits using approved metering device. After inspection requirements have been satisfied, load tank and related piping on a transport for shipment to a certified disposal facility. Using the bucket of the backhoe, aid in the collection of soil samples. When the excavation and soil stockpile have been determined to be free of contamination, backfill (utilizing soil stockpile and cohesive imported material) and compact to subgrade. Re-pour a 6" deep, reinforced concrete slab (approx. 10' x 12') over excavation to match existing grade. Clean up and haul away all concrete rubble and debris.

Note: Bid includes the cost of soil collection, analysis*and reports for tank removal including; 1 pit sample and 1 composite stockpile sample analysis for: TPH as diesel, gasoline and BTEX (EPA Method 8015M/8020), MTBE and oxygenates (EPA Method 8260), Oil & Grease SM5520, chlorinated hydrocarbons, EDB, and EDC (EPA Method 8010), cadmium, chromium, lead, nickel, and zinc (EPA 6010 series). Any additional samples or any analysis required for the removal of any contaminated soil or the processing of contaminated soil, should contamination be found, all costs to be determined and added to the base bid.

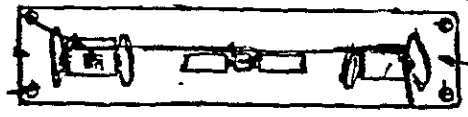
TO BE REMOVED

VEHICLE MAINTENANCE SHOP

SORTING & LOADING AREAS

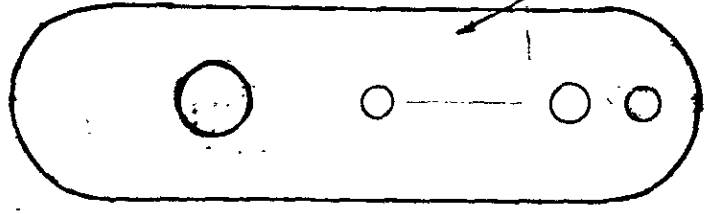
2" DOUBLE CONTAINED OIL DRAIN LINE

500 GALLON XERXES DOUBLE-WALL FIBERGLASS WASTE OIL TANK



TO REMAIN:
FUEL SERVICE ISLAND

10,000 GALLON XERXES DOUBLE-WALL FIBERGLASS UNLEADED GASOLINE TANK.



A/C

P.L.

LOCATION	1600 63RD STREET EMERYVILLE, CA. 94608	
DATE 11-19-99	PROJECT TITLE FEDEX - WASTE OIL TANK REMOVAL	PROJECT NUMBER 9302
DRAWN BY JB	SHEET TITLE SITE PLAN - TANK LOCATION	SCALE 1/8" = 1'-0"

PEARSON EQUIPMENT & MAINTENANCE COMPANY
18305 LAKE CHABOT ROAD CASTRO VALLEY, CALIFORNIA 94546
GENERAL ENGINEERING CONTRACTOR
STATE LICENSE NUMBER 630936 PHONE/FAX (510) 889-7888 CLASSIFICATION A C61/D40 HAZ

APPROVED BY	REVISION NO	REV DATE	BY	SHEET NO 1 OF 1
	REV DESCRIPTION			

Hugo, Susan, Public Health, EH
From: soma [soma@slip.net]
Sent: Monday, October 25, 1999 9:55 AM
To: Hugo, Susan, Public Health, EH
Subject: Sampling at 1600 63rd Street (FedEx)

Susan,

I heard you came by the Site on Thursday during the sampling of the first deep water zone. Sorry to hear that I missed you. Unlike the extremely slow recovering first zone, the second zone produced significant amounts of water for sampling. Due to time constraints, we were not able to collect soil samples. At this time, we would like to see how the results of the two sets of water samples turn out before we develop a plan about soil samples. I'll keep you posted on the water sample results.

Glenn

SOMA Corporation
1260B 45th Street
Emeryville, CA 94608
(510) 654-3900
(510) 654-1960 - Fax
soma@slip.net

ALAMEDA COUNTY ENVIRONMENTAL HEALTH / HAZARDOUS MATERIALS DIVISION
1131 HARBOR BAY PKWY., RM. 250, ALAMEDA, CA 94502-6577 (510)567-6700 FAX (510) 337-9355

HAZARDOUS WASTE GENERATOR INSPECTION REPORT

STID #: 147	FACILITY NAME: Federal Express 1600 63rd St	PG. 1 OF 1

SUPPLEMENTAL FORM

Emeryville

ON SITE - DEEP AQUIFER INVESTIGATION;
CPT - boring to be drilled to 150ft bgs.
Met w/ Ben Wells - Environmental Resource Group
- difficulty in getting water samples; Currently
down @ 113ft, no water samples yet.
WILL TRY to go deeper ~ 150 ft.

PRINT NAME:	INSPECTED BY: Shuyd
SIGNATURE:	DATE: 10/21/99

GEN/SUM RPT (REV. 7/94) JNS /ECO

Hugo, Susan, Public Health, EH

From: Azureenv@aol.com
Sent: Friday, October 15, 1999 9:44 AM
To: SHugo@co.alameda.ca.us
Cc: soma@slip.net
Subject: Re: 1600 63rd Street, Emeryville

Dear Susan:

This letter is to notify you of the schedule for deep ground-water sampling using CPT equipment at the FedEx facility, 1600 63rd Street in Emeryville.

The CPT work is scheduled to begin at approximately 8:00 AM on Thursday, October 21 and is expected to be completed on the same day.

Please feel free to call me (415/485-9740) or Glenn Leong (510/654-3900) if you have any questions.

Jeff Hennier

Federal Express Corporation
Environmental Engineering
8950 Cal Center Drive, Suite 370
Sacramento, CA 95826-3259
Telephone 916-361-5547

Federal Express

September 27, 1999

Ms. Susan L. Hugo – Environmental Health Services
Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
Phone (510) 567-6700 Fax (510) 337-9335

RE: JEMA – 1600 63rd Street, Emeryville, CA 94608
Underground Storage Tank (UST) Owner/Operator Agreement
STID #147

Dear Ms. Hugo,

Mr. Robbins – Wareham Properties, Glenn Leong – Soma Corporation and I met at the site on 9/24/99 and discussed the Owner/Operator Agreement.

Mr. Robbins and I agreed that the attached lease language excerpts meet the Owner/Operator Agreement requirements. [CCR title 23, Division 3, Chapter 16, Underground Storage Tank Regulations, Article 2. General Provisions, 2620. General Intent, Content, Applicability, and Implementation of Regulations, paragraph (b)]

Please accept and contact the undersigned if you have any questions.

Sincerely,

Alan O. Johnson

Alan O. Johnson
Project Manager
Environmental Engineering
916/361-5547

Attachment: 2-8-88 Lease Agreement Excerpts

cc: Mr. Richard Robbins, Wareham Property Group (fax – 415/459-4605)
Ms. Barbara Hodick, Federal Express Corp.
Mr. Glenn Leong, Soma Corp. (fax – 510/654-1960)
Ms. Donna Escobar – Federal Express Corp.

FEC CONTRACT NO. -88-1478

LEASE AGREEMENT

THIS LEASE AGREEMENT, made this 8th day of February, 1988, between 1600 63rd Street Associates, Inc. ("Landlord") and FEDERAL EXPRESS CORPORATION ("Tenant").

RECITALS

1. Landlord has the unqualified right to grant a leasehold interest in the premises described in this Lease.

2. Tenant desires to lease from Landlord and Landlord is willing to lease to Tenant the premises described in this Lease, in accordance with and subject to the conditions of this Lease.

37,500 - 1

FOR AND IN CONSIDERATION of the mutual covenants contained in this Lease, Landlord and Tenant (the "parties") agree as follows:

Section 1. Lease of Premises. Landlord leases to Tenant and Tenant hires from Landlord the premises described in Exhibit A (the "Premises") for the term described in Section 2.

Section 2. Initial Term. (a) The Initial Term of this Lease (the "Initial Term") shall commence on the later of (a) November 1, 1988 or (b) the date that Landlord's work to be performed under Section 7 is substantially completed (the "Commencement Date") and end on October 31, 1998 (the "Expiration Date"), unless earlier terminated pursuant to the terms of this Lease. If the Commencement Date is delayed as a result of (a) changes

INITIAL

Excerpts

Section 5. Use.

(c) Throughout the term of this Lease and at its sole cost and expense, Tenant shall comply with all laws, ordinances, notices, orders and requirements relating to the Premises, or to the use or manner of use of the Premises, or to the operation of Tenant's business, of all federal, state and municipal governments and all departments, commissions, boards and officers thereof, and of the National Board of Fire Underwriters or any other body now or hereafter constituted exercising similar functions.

Section 9. Maintenance of Premises.

(c) Tenant shall be responsible for maintaining in good condition at its expense the Premises, including but not limited to the exterior parking lot and landscaping but excluding the foundation, the loadbearing walls, and the roof, and shall perform any and all necessary repairs and maintenance. If following notice from Landlord, Tenant fails to make any necessary maintenance for which Tenant is responsible, Landlord may have such repairs or maintenance performed and Landlord's costs of doing so shall be payable as Additional Rent with the next due installment of Base Rent.

evidenced by the signature of Tenant's attorney in the space provided.

IN WITNESS WHEREOF, the parties have signed this Lease on the date first above written.

By: _____

Title: 2-10-88

("Landlord")

Federal Tax ID No. 58-0014718

Telephone No.

FEDERAL EXPRESS CORPORATION

By: _____

Title: Christine Gotsakas
Vice President

("Tenant")

Approved apl 2/5/88

SOMA CORPORATION

1260B 45th Street
Emeryville, CA 94608
(510) 654-3900
(510) 654-1960 Facsimile

Fax Cover Sheet

To:	Susan Hugo	From:	Glenn M. Leong
Company	Alameda County Health Care Services Agency, Department of Environmental Health	Pages:	1
Fax:	510-337-9335	Date:	September 8, 1999
Phone:	510-567-6780	SOMA Project #:	99-2081
		cc:	Rich Robbins Wareham Property Group. Fax - 415-459-4605 Alan Johnson Federal Express Corporation Fax - 916-361-2921
Re:	1600 63rd Street, Emeryville, California - STID#147 UST Owner/Operator Agreement		

☐ Urgent ☑ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

---

● Comments: Susan,

In accordance with your letter of August 26, 1999 to Rich Robbins of Wareham Property Group and Alan Johnson of Federal Express Corporation, the two parties are in the process of preparing appropriate documentation of an owner/operator agreement for the two underground storage tanks at 1600 63rd Street in Emeryville, California. Based upon the current discussions between the two parties, there is some disagreement/uncertainty associated with both parties' understanding of their portion of the responsibilities associated with the two tanks. A meeting on September 24, 1999 will be held that will include Mr. Robbins, Mr. Johnson, other associated parties, and myself. The meeting is intended to clarify all of the pertinent issues and reach resolution in terms of any delineated responsibilities for the two tanks.

Due to the magnitude of the issues at hand, it is vital that principals from both parties attend the meeting. Consequently, the date of the meeting (September 24, 1999) is the earliest possible time for both principals to meet. Although this date is after the owner/operator agreement submission deadline of September 10, 1999, I would like to request an extension to late September or early October. I expect that the meeting will be beneficial to meeting ACHCSA's goals for documentation of the tank responsibilities, as well as the long-term goals of other environmental activities to be conducted at the Site.

Please call me at (510) 654-3900 if you have any questions.

Glenn

Telephone 916-361-5547
Environmental Engineering
8950 Cal Center Drive, Suite 370
Sacramento, CA 95826 3259

FedEx
Federal Express

September 7, 1999

Ms. Susan L. Hugo
Alameda County Health Care Services
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
Phone (510) 567-6700
Fax (510) 337-9335

RE: JEMA - 1600 63rd Street, Emeryville, CA 94608
Underground Storage Tank (UST) Owner/Operator Agreement
STID #147

Dear Ms. Hugo,

Wareham Properties, Richard Robbins, has requested that I visit the site with him and their Environmental Consultant. The soonest available date for both parties is on Friday, September 24, 1999 at 12 pm. Mr. Robbins would like to meet before finalizing the Owner/Operator Agreement.

We are requesting an extension of time until October 1, 1999, to complete the site visit and prepare a response to your request.

Sincerely,

Alan O. Johnson

Alan O. Johnson
Project Manager
Environmental Engineering
916/361-5547

cc: Richard Robbins - Wareham Property Group FAX (415) 457-4605
Barbara Hodick - FedEx

SOMA CORPORATION

September 2, 1999 SOMA 99-2081

Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

LOP 147

Subject : Shallow Ground-Water Investigation Results
1600 63rd Street, Emeryville, California

Dear Ms. Hugo:

This letter provides the results of the shallow ground-water investigations conducted on August 5, 1999 at 1600 63rd Street in Emeryville ("the Site"). The ground-water investigations were conducted in accordance with the Addendum to Additional Ground-Water Investigation Workplan ("Workplan Addendum") dated July 7, 1999, as approved by the Alameda County Health Care Services Agency (ACHCSA) letter to Mr. Dan Nourse of 1600 63rd Street Associates, Inc. dated July 19, 1999. The shallow groundwater investigations are a portion of the work proposed in the Workplan Addendum.

Ground-Water Investigation Results

Ground-water grab samples were collected from five shallow borings (HP-1 through HP-5) that were drilled by Precision Sampling, Inc. using direct push drilling equipment. The ground-water grab samples were submitted to Chromalab, Inc. for total petroleum hydrocarbons (TPH) characterized as gasoline and diesel using EPA Method 8015/5030, and benzene, toluene, ethylbenzene, and xylenes (BTEX) compounds and methyl-tert-butyl ether (MTBE) using EPA Method 8020. Grab sample and Site monitoring well locations are shown in Figure 1; grab sampling results and most recent monitoring well sample results are summarized in Table 1.

With the exception of trace concentrations of toluene, ethylbenzene, and xylenes (up to 0.002 parts per million [ppm]) detected at boring HP-4, TPHg and TPHd were the only compounds detected in the ground-water grab samples (Table 1). No MTBE was detected. The TPH results were reported as gasoline and diesel in the samples; however, the laboratory indicated that the "hydrocarbon reported does not match the pattern of our gasoline or diesel standard." Floating product was observed and sampled from boring HP-5. The product sample from boring HP-5 was sent by Chromalab, Inc. to Friedman & Bruya, Inc. Laboratory for further hydrocarbon identification analysis. The laboratory results from Friedman & Bruya, Inc. will be reviewed to assess the nature and potential source of the petroleum hydrocarbons detected in ground-water samples from the borings.

99 SEP -3 PM 2:30
PROTECTION

1260B 45th Street • Emeryville, CA 94608
(510) 654-3900 • FAX (510) 654-1960

SOMA CORPORATION

Recommendations

Additional information regarding the Site underground storage tanks has been requested from FedEx (the current tenant) and from the property owner, and SOMA is proceeding with a UST file review at the ACHCSA. After additional information is obtained on the USTs, SOMA will contact the ACHCSA to discuss additional investigations in the vicinity of the USTs.

Based on ground-water investigation results indicating only trace concentrations of TPHd (0.087 ppm) were detected at boring HP-1, it is recommended that we proceed with the planned deep ground-water investigations consisting of collecting ground-water samples from one CPT boring at the Site (Figure 1). We plan to proceed with the deep ground-water investigations upon receipt of the ACHCSA's approval.

Please call us at (510) 654-3900 should you have any questions or comments regarding this document.

Sincerely,

Glenn Leong
Vice President and Senior Scientist

Jeff Hennier, R.G., C.HG.
Associate Hydrogeologist

Enclosure

cc: Rich Robbins, 1600 63rd Street Associates, Inc.

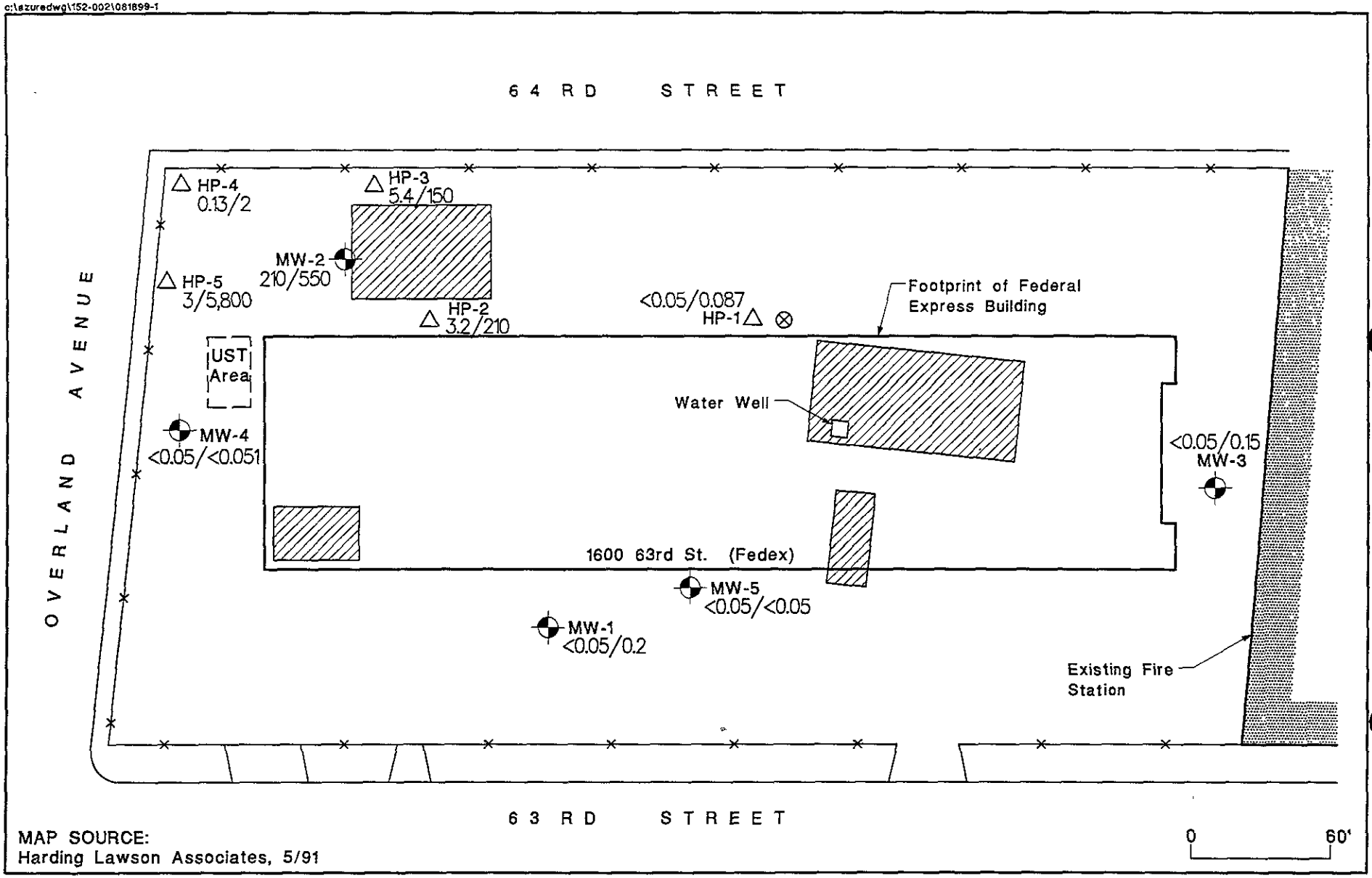
TABLE 1
GROUND WATER ANALYTICAL RESULTS (ppm)
1600 63rd Street, Emeryville, California

Sample No.	Date Sampled	Notes	Chemical Concentrations Detected (ppm)											
			TPHd	Motor Oil	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	PCB's	EPA 8010 Analytes	EPA 8080 Analytes	EPA 8270 Analytes	MTBE
Monitoring Wells														
MW-1	05/14/1999		**0.2**	<0.5	<0 05	<0 0005	<0.0005	<0 0005	<0 0005	<0.0005	ND	ND	ND	<0.005
MW-2	05/14/1999	(1)	**550**	<3,500	**210**	<2 5	<2 5	<2 5	**4.9**	<0.5	NA	NA	NA	NA
MW-3	05/14/1999		**0.15**	<0 5	<0.05	<0 0005	<0 0005	<0 0005	<0 0005	<0.00052	ND	ND	ND	<0 005
MW-4	05/14/1999		<0 051	<0.51	<0 05	<0.0005	<0.0005	<0 0005	<0 0005	<0.0005	ND	ND	ND	<0.005
MW-5	05/14/1999		<0.05	<0.5	<0 05	<0.0005	<0.0005	<0.0005	<0.0005	<0 00052	ND	ND	ND	<0 005
Ground-Water Grab Samples														
HP-1-W	08/05/1999		**0.087**	NA	<0.05	<0 0005	<0 0005	<0 0005	<0 0005	NA	NA	NA	NA	<0.005
HP-2-W	08/05/1999		**210**	NA	**3.2**	<0 001	<0 001	<0 001	<0.001	NA	NA	NA	NA	<0.01
HP-3-W	08/05/1999		**150**	NA	**5.4**	<0 005	<0 005	<0 005	<0.005	NA	NA	NA	NA	<0 05
HP-4-W	08/05/1999		**2**	NA	**0.13**	<0 0005	**0.001**	**0.00082**	**0.002**	NA	NA	NA	NA	<0.005
HP-5-W	08/05/1999		**5800**	NA	**3**	<0 005	<0 005	<0.005	<0.005	NA	NA	NA	NA	<0 05

NOTES:

MTBE = Methyl-tert-butyl ether
PCBs = Polychlorinated Biphenyls
ppm = parts per million (milligrams per liter)
TPHg = Total Petroleum Hydrocarbons as Gasoline
TPHd = Total Petroleum Hydrocarbons as Diesel.
< = Below Specified Reporting Limits.
NA = Not Analyzed
ND = Not Detected.
(1) Product sample collected from MW-2, Chromalab results indicate hydrocarbon reported does not match diesel standard Friedman & Bruya results indicate "patterns displayed by these peaks are indicative of degraded Bunker C or crude oil"

c:\azuredwg\152-002\081899-1



MAP SOURCE:
Harding Lawson Associates, 5/91

EXPLANATION:

- Monitoring Well
- Groundwater Grab Sample Location
- Proposed CPT Sampling Location
- Soil and Tank Excavation Areas
- 3.2/210 — TPHgas (ppm) / TPHdiesel (ppm)

Figure 1: Site Map Showing Ground-Water Sampling Locations

SOMA CORPORATION

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J KEARS, Agency Director

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

August 26, 1999

Mr. Richard Robbins
Wareham Property Group
1120 Nye Street, Suite 400
San Rafael, California 94901

Mr. Alan Johnson
Federal Express Corporation
8950 Cal Center Dr., Suite 370
Sacramento, California 95826

Subject: Request for an Extension Regarding Notice of Violation Issued for Federal Express Facility - 1600 63rd Street, Emeryville, CA 94608 (STID #147)

Dear Messrs. Robbins and Johnson:

This agency has received a letter dated August 25, 1999 from Federal Express Corporation requesting an extension to submit a copy of the **owner / operator agreement** for the two underground storage tanks (USTs) at the subject site.

A **Notice of Violation** was issued to Wareham Property Group (owner of the tanks) and Federal Express Corporation (operator of the tanks) by this office on August 11, 1999. Wareham Property Group and Federal Express Corporation failed to submit the owner / operator agreement in accordance with the California Code of Regulations, Title 23, Section 2620 (b).

It is our understanding that Mr. Richard Robbins of Wareham Property Group is not available until next week (August 30, 1999). Based on the information provided to our office, the deadline for **the submission of the owner / operator agreement has been extended to September 10, 1999**.

The owner / operator agreement must be submitted to this agency **no later than September 10, 1999.** Failure to comply with this requirement will result in our agency proceeding with revocation of the Certificate of Compliance and hence, no fuel can be delivered at the subject site.

If you have any questions regarding this letter or the subject site, please contact me at (510) 567-6780.

Sincerely,

Susan L. Hugo
Hazardous Materials Specialist

c: Chuck Headlee, San Francisco Bay RWQCB
George Warren, City of Emeryville Fire Department, 2333 Powell St., Emeryville, CA 94608
Ariu Levi, Chief, Hazardous Materials Program
Tom Peacock, Manager, Hazardous Materials Program
Barbara Hodick, Federal Express Corporation, 3975 Airways Blvd. Memphis, TN 38116
Glenn Leong, Soma Corp., 1260 B 45th Street, Emeryville, CA 94608
Robert Weston / SH/ file

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

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

August 11, 1999

Mr. Richard Robbins
Wareham Property Group
1120 Nye Street, Suite 400
San Rafael, California 94901

Ms. Donna Escobar
Federal Express Corporation
1600 63rd Street
Emeryville, California 94608

NOTICE OF VIOLATION

Subject: Federal Express - 1600 63rd Street, Emeryville, CA 94608 (STID #147)

Dear Mr. Robbins and Ms. Escobar:

This letter is to notify you that our office **has not received the owner/ operator agreement** for the two underground storage tanks (USTs), a 10,000 -gallon gasoline and a 550-gallon waste oil at the above subject site. Federal Express is listed as the operator of the USTs and Wareham Property Group is the owner of the USTs. In accordance with the California Code of Regulations, Title 23, Section 2620 (b), if the operator is not the owner, then the owner shall enter into a written contract with the operator requiring the operator to monitor the underground storage tanks, maintain appropriate records, and implement reporting procedures as required by any applicable permit.

The owner / operator agreement must be submitted to this agency **no later than August 25, 1999.** Failure to comply with this requirement will result in our agency proceeding with revoking the permit to operate the tanks and hence, no fuel can be delivered or dispense at the subject site.

If you have any questions regarding this letter or the subject site, please contact me at (510) 567-6780.

Sincerely,

Susan L. Hugo
Hazardous Materials Specialist

c: Chuck Headlee, San Francisco Bay RWQCB
George Warren, City of Emeryville Fire Department, 2333 Powell St., Emeryville, CA 94608
Tom Peacock, Manager, Hazardous Materials Program
Barbara Hodick, Federal Express Corp., Environmental Management, 3975 Airways Blvd. Memphis, TN 38116
Glenn Leong, Soma Corp., 1260 B 45th Street, Emeryville, CA 94608
Robert Weston / SH/ file

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

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

August 11, 1999

Mr. Richard Robbins
Wareham Property Group
1120 Nye Street, Suite 400
San Rafael, California 94901

Ms. Donna Escobar
Federal Express Corporation
1600 63rd Street
Emeryville, California 94608

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If you have any questions regarding this letter or the subject site, please contact me at (510) 567-6780.

Sincerely,

Susan L. Hugo
Hazardous Materials Specialist

c: Chuck Headlee, San Francisco Bay RWQCB
George Warren, City of Emeryville Fire Department, 2333 Powell St., Emeryville, CA 94608
Tom Peacock, Manager, Hazardous Materials Program
Barbara Hodick, Federal Express Corp., Environmental Management, 3975 Airways Blvd. Memphis, TN 38116
Glenn Leong, Soma Corp., 1260 B 45th Street, Emeryville, CA 94608
Robert Weston / SH/ file

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To DEBBIE BARRALL	From SUSAN HUGO
Co. WAREHAM	Co. ACDEH
Dept.	Phone #
Fax # (415) 459-4605	Fax # 510-337-9335

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

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

August 11, 1999

Mr. Richard Robbins
Wareham Property Group
1120 Nye Street, Suite 400
San Rafael, California 94901

Ms. Donna Escobar
Federal Express Corporation
1600 63rd Street
Emeryville, California 94608

NOTICE OF VIOLATION

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Dear Mr. Robbins and Ms. Escobar:

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The owner / operator agreement must be submitted to this agency **no later than August 25, 1999.** Failure to comply with this requirement will result in our agency proceeding with revoking the permit to operate the tanks and hence, no fuel can be delivered or dispense at the subject site.

If you have any questions regarding this letter or the subject site, please contact me at (510) 567-6780.

Sincerely,

Hugo, Susan, Public Health, EH
From: Weston, Robert, Public Health, EH
Sent: Thursday, August 05, 1999 4:20 PM
To: Hugo, Susan, Public Health, EH
Subject: RE: Federal Express (Formerly Peterson Manufacturing Co.)-1600 63rd St. Emeryville

Susan,

Please see my answers to the questions posed in your email.

I will do some investigation and get back to you

Robert Weston
Hazardous Materials Program

From: Hugo, Susan, Public Health, EH
Sent: Thursday, August 05, 1999 2:36 PM
To: Weston, Robert, Public Health, EH
Cc: Peacock, Tom, Public Health, EH
Subject: Federal Express (Formerly Peterson Manufacturing Co.)-1600 63rd St. Emeryville

Rob,

I visited this site today primarily to observe drilling work related to releases associated with historical use of the property. This is an active LOP site -STID # 147. The LOP case is related to previous tank removals conducted by Peterson Manufacturing Co. in 1988 and releases from historical usage of the property.

I was not aware that active tank(s) exist at the site. I noticed two dispensers and was told that at least one 10,000 gallon gasoline tank is currently used to fuel fleet trucks. I was also told that the tank is permitted and is in compliance. I also heard that a waste oil tank was removed at least 8 months ago at this facility.

One of the borings drilled which appeared to be close to the tank area found free product. We are collecting additional data to evaluate the site for closure.

Questions:

1) How many active tanks are at the site? 2
2) Are the tanks currently permitted ? 2
3) Were the tanks upgraded to meet compliance ? yes
4) Was there a waste oil tank (550 gallon) remove at the site? no
5) Was the removal approved by our office? no
6) Any samples collected ? see above
7) Were the tanks (currently at the site) installed under our supervision? yes
8) Who is the owner of the tank (s). Warham Group

My understanding is that Federal Express is a tenant. I'm dealing with Wareham Development who is the current owner of the property.

The former Peterson Manufacturing Co. removed all the tanks at this site in 1988 prior to development of the property.

I was trying to get some of the information in our hazmat data base but was not successful. Any information you can give me is greatly appreciated.

Susan L. Hugo
Environmental Health Services

Hugo, Susan, Public Health, EH

From: Hugo, Susan, Public Health, EH
Sent: Thursday, August 05, 1999 2:37 PM
To: Weston, Robert, Public Health, EH
Cc: Peacock, Tom, Public Health, EH
Subject: Federal Express (Formerly Peterson Manufacturing Co.)-1600 63rd St. Emeryville

Rob,

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Questions:

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2) Are the tanks currently permitted ?
3) Were the tanks upgraded to meet compliance ?
4) Was there a waste oil tank (550 gallon) remove at the site?
5) Was the removal approved by our office?
6) Any samples collected ?
7) Were the tanks (currently at the site) installed under our supervision?
8) Who is the owner of the tank (s).

My understanding is that Federal Express is a tenant. I'm dealing with Wareham Development who is the current owner of the property.

The former Peterson Manufacturing Co. removed all the tanks at this site in 1988 prior to development of the property.

I was trying to get some of the information in our hazmat data base but was not successful. Any information you can give me is greatly appreciated.

Susan L. Hugo
Environmental Health Services

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

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

July 19, 1999

Mr. Dan Nourse
Wareham Property Group
1120 Nye Street, Suite 400
San Rafael, California 94901

Subject: **Addendum to Additional Ground-Water Investigation Work Plan**
Former Peterson Manufacturing Company (STID#147)
1600 63rd Street, Emeryville, California 94608

Dear Mr. Nourse:

This agency has reviewed the letter report dated July 7, 1999, submitted by Soma Corporation for the subject site. The letter provided the initial results of the shallow ground-water sampling conducted at the site on May 14, 1999. Floating product was detected in monitoring well MW-2. As a result, further evaluation of the shallow groundwater condition beneath the site, particularly in the vicinity of monitoring well MW-2 is necessary prior to conducting the deep aquifer investigation using the cone penetrometer test (CPT).

The addendum, which includes the collection of ground-water samples from five temporary borings, is acceptable. Please notify our office of the schedule of field acitivities at the site.

A report documenting the results of this investigation must be submitted to this office no later than 60 days after completion of the work plan implementation. Your report should include at a minimum the following items: copies of boring logs, detailed description of workplan implementation, analytical results from certified laboratory including quality control/quality assurance, tabulated results, site map and professional findings /recommendations.

If you have any questions concerning this letter or the subject site, please contact me at (510) 567-6780.

Sincerely,

Susan L. Hugo
Hazardous Materials Specialist

cc: Chuck Headlee, San Francisco Bay RWQCB
Glenn Leong, Soma Corp., 1260B 45th Street, Emeryville, CA 94608
SH/ files

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

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

July 19, 1999

RO#52

Mr. Dan Nourse
Wareham Property Group
1120 Nye Street, Suite 400
San Rafael, California 94901

Subject: **Addendum to Additional Ground-Water Investigation Work Plan**
Former Peterson Manufacturing Company (STID#147)
1600 63rd Street, Emeryville, California 94608

Dear Mr. Nourse:

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If you have any questions concerning this letter or the subject site, please contact me at (510) 567-6780.

Sincerely,

Susan L. Hugo
Hazardous Materials Specialist

cc: Chuck Headlee, San Francisco Bay RWQCB
Glenn Leong, Soma Corp., 1260B 45th Street, Emeryville, CA 94608
SH/ files

LOP 147

SOMA CORPORATION

1260B 45th Street
Emeryville, CA 94608
(510) 654-3900
(510) 654-1960 Facsimile

Fax Cover Sheet

To:	Ms.. Susan Hugo	From:	Glenn M. Leong
Company	Alameda County Health Care Services Agency	Pages:	5
Fax:	510-337-9335	Date:	7/8/99
Phone:	513-567-6780	CC:	Dan Nourse Worsa Development
Re:	1600 63rd Street, Emeryville		

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

● Comments:

Susan,

Enclosed is a letter outlining the results of shallow well sampling at the 1600 63rd Street Site in Emeryville. As you will notice, we observed product in one of the wells on the northern portion of the Site (MW-2). Because we moved the proposed deep temporary well location to the northern portion of the Site pursuant to your recommendations, we are proposing to perform additional shallow groundwater investigation activities prior to the installation of the proposed deep temporary well. The additional information is intended to reduce the potential for cross contamination from the shallow groundwater zone to the deeper groundwater zone.

I will call you to confirm your receipt of this facsimile (the original will be sent via U.S. Mail). If you have any questions, please call me at (510) 654-3900.

Glenn

SOMA CORPORATION

July 7, 1999

Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Re: Shallow Ground-Water Sampling Results and Addendum to Additional Ground-Water Investigation Workplan, 1600 63rd Street, Emeryville, California

Dear Ms. Hugo:

This letter provides the results of shallow ground-water sampling conducted on May 14, 1999 at the five Site monitoring wells located at 1600 63rd Street in Emeryville ("the Site"). The ground-water sampling was conducted in accordance with the Additional Ground-Water Investigation Workplan ("the Workplan") dated February 23, 1999, as approved with modifications in the Alameda County Health Care Services Agency (ACHCSA) letter to Mr. Dan Nourse of 1600 63rd Street Associates, Inc. dated April 29, 1999. Based on the ground-water sampling results, additional ground-water investigations are proposed and are presented in this letter as an Addendum to the Workplan.

Ground-Water Sampling Results

Ground-water samples were collected from shallow monitoring wells MW-1 through MW-5 to confirm previous monitoring results. The ground-water samples were submitted to Chromalab, Inc. for the following analyses: TPH characterized as gasoline, diesel and motor oil using EPA Method 8015/5030; BTEX compounds using EPA Method 8020; volatile organic compounds (VOCs) using EPA Method 8010; semi-volatile organic compounds (SVOCs) using EPA Method 8270; polychlorinated biphenols (PCBs) and pesticides using EPA Method 8080; and MTBE using EPA Method 8260. Monitoring well locations are shown in Figure 1; sampling results are summarized in Table 1.

TPH and xylenes were the only compounds detected in the ground-water samples (Table 1). The TPH results were reported as diesel in the samples from wells MW-1 through MW-3; however, the laboratory indicated that the "hydrocarbon reported does not match the pattern of our Diesel standard." Floating product was observed and sampled from well MW-2. The product sample from well MW-2 was sent by Chromalab, Inc. to Friedman & Bruya, Inc. laboratory for further hydrocarbon identification analysis. The laboratory results from Friedman & Bruya, Inc. indicate "The patterns displayed by these peaks are indicative of degraded Bunker C or crude oil."

Proposed Addendum Ground-Water Investigations

Based on the results of recent ground-water sampling indicating floating product in well MW-2, additional shallow ground-water investigations are recommended to assess the extent of petroleum hydrocarbons and floating product in the vicinity of well MW-2. Additional investigations are proposed to collect ground-water grab samples from 5 locations adjacent to well MW-2 (Figure 1). The sampling locations shown in Figure 1 are contingent upon access limitations (i.e., site features, utilities) and final locations may be moved to the closest accessible location. The ground-water samples will be submitted

1260B 45th Street • Emeryville, CA 94608
(510) 654-3900 • FAX (510) 654-1960

SOMA CORPORATION

to a California state-certified laboratory for analysis TPH as diesel and gasoline using EPA Method 8015/5030 and BTEX compounds using EPA Method 8020.

The ground-water samples are proposed to be collected from temporary borings drilled using portable direct push or Geoprobe™ drilling equipment. Based on previous data collected in the Site vicinity, we anticipate that the depth to ground water at the Site is approximately 5-feet below grade. Ground-water grab samples will be collected from borings drilled to approximately 5- to 10-feet below the ground-water surface (i.e., 10- to 15-feet below grade). Ground-water grab samples will be collected from the borings using a Teflon or stainless steel bailer lowered into temporary PVC well casing installed in the borehole. The temporary PVC well casing will be screened across the ground-water surface and will stand overnight prior to sampling to allow product to enter the casing, if present. The ground-water samples will be placed in a chilled cooler immediately after collection for transport to the laboratory. In the event that a ground-water grab sample cannot be collected from the boring due to the presence of low permeability sediments, a soil sample will be collected during drilling from slightly below the soil/ground-water interface and sent to the laboratory for petroleum hydrocarbon analysis. After collecting the sample, the borehole will be sealed with a bentonite-grout mix and the ground surface restored using replacement materials (i.e., asphalt patch, concrete).

The additional investigations are recommended to be conducted prior to conducting the CPT deep ground-water investigation described in the Workplan. Conducting the recommended additional investigations will provide data on the shallow ground-water quality in the area of the proposed CPT sampling location (Figure 1).

Schedule

Shallow ground-water investigations are expected to be conducted within two weeks of the ACHCSA's acceptance of this Addendum. Results of these investigations will be reviewed and any recommended modifications to the planned deep ground-water investigations will be discussed with the ACHCSA prior to conducting the CPT investigations. This estimated schedule is contingent upon subcontractor driller availability.

Please call us at (510) 654-3900 should you have any questions or comments regarding this document.

Sincerely,

Glenn Leong
Vice President and Senior Scientist

Jeff Hennier, R.G., C.HG.
Associate Hydrogeologist

Enclosure

cc: Dan Nourse, 1600 63rd Street Associates, Inc.

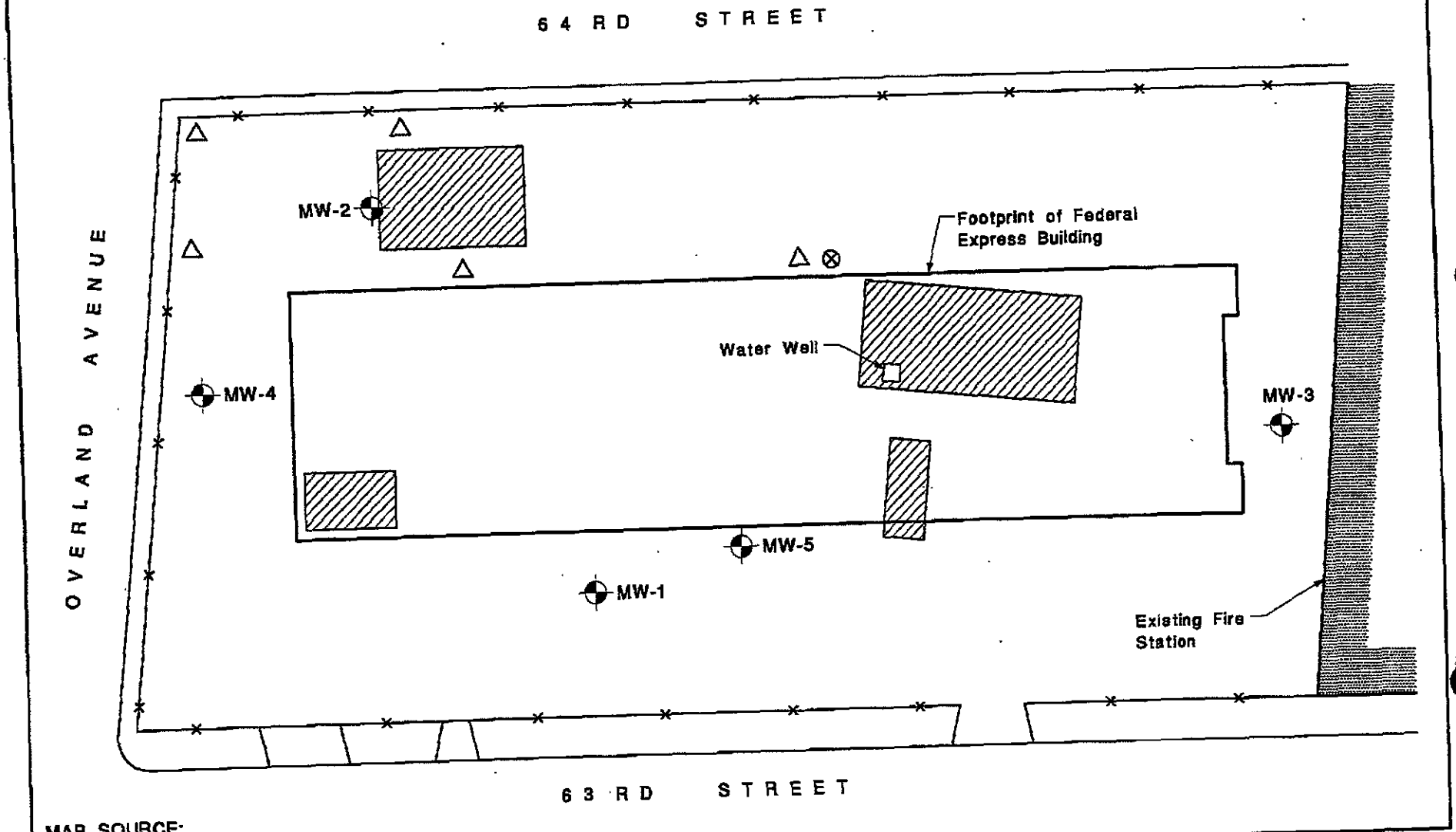
TABLE 1
GROUND WATER ANALYTICAL RESULTS (ppm)
1600 63rd Street, Emeryville, California

Sample No.	Date Sampled	Notes	Chemical Concentrations Detected (ppm)											
			TPHd	Motor Oil	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	PCB's	EPA 8010 Analytes	EPA 8080 Analytes	EPA 8270 Analytes	MTBE
SOMA Corporation														
MW-1	5/14/99		0.2	<0.5	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND	ND	ND	<0.005
MW-2	5/14/99	(1)	550	<3,500	210	<2.5	<2.5	<2.5	4.9	<0.5	NA	NA	NA	NA
MW-3	5/14/99		0.15	<0.5	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.00052	ND	ND	ND	<0.005
MW-4	5/14/99		<0.051	<0.51	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND	ND	ND	<0.005
MW-5	5/14/99		<0.05	<0.5	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	<0.00052	ND	ND	ND	<0.005

NOTES:

TPHg = Total Petroleum Hydrocarbons as Gasoline.
TPHd = Total Petroleum Hydrocarbons as Diesel.
< = Below Specified Reporting Limits.
NA = Not Analyzed.
ND = Not Detected.
MTBE analyzed using EPA Method 8260.
(1) Product sample collected from MW-2; Chromalab results indicate hydrocarbon reported does not match diesel standard. Friedman & Bruya results indicate "patterns displayed by these peaks are indicative of degraded Bunker C or crude oil"

c:\ezu\redwg\t52-002\082299-1



MAP SOURCE:
Harding Lawson Associates, 5/91

EXPLANATION:

- Monitoring Well
- Proposed Groundwater Grab Sample Location
- Proposed CPT Sampling Location
- Soil and Tank Excavation Areas

Figure 1: Site Map Showing Proposed Sampling Locations

SOMA CORPORATION

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

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

June 9, 1999

STID 147

Mr. Dan Nourse
Wareham Property Group
1120 Nye Street, Suite 400
San Rafael, California 94901

RE: Former Peterson Manufacturing Company (STID # 147)
1600 63rd Street, Emeryville, CA 94608

LANDOWNER NOTIFICATION AND PARTICIPATION REQUIREMENTS

Dear Mr. Nourse:

This letter is to inform you of new legislative requirements pertaining to cleanup and closure of sites where an unauthorized release of hazardous substance, including petroleum, has occurred from an underground storage tank (UST). Section 25297.15(a) of Ch. 6.7 of the Health & Safety Code requires the primary or active responsible party to notify all current record owners of fee title to the site of: 1) a site cleanup proposal, 2) a site closure proposal, 3) a local agency intention to make a determination that no further action is required, and 4) a local agency intention to issue a closure letter. Section 25297.15(b) requires the local agency to take all reasonable steps to accommodate responsible landowners' participation in the cleanup or site closure process and to consider their input and recommendations.

For purposes of implementing these sections, you have been identified as the primary or active responsible party. Please provide to this agency, within twenty (20) calendar days of receipt of this notice, a complete mailing list of all current record owners of fee title to the site. You may use the enclosed "list of landowners" form (sample letter 2) as a template to comply with this requirement. If the list of current record owners of fee title to the site changes, you must notify the local agency of the change within 20 calendar days from when you are notified of the change.

If you are the sole landowner, please indicate that on the landowner list form. The following notice requirements do not apply to responsible parties who are the sole landowner for the site.

In accordance with Section 25297.15(a) of Ch. 6.7 of the Health & Safety Code, you must certify to the local agency that all current record owners of fee title to the site have been informed of the proposed action before the local agency may do any of the following:

1) consider a cleanup proposal (corrective action plan)

2) consider a site closure proposal

3) make a determination that no further action is required

4) issue a closure letter

You may use the enclosed "notice of proposed action" form (sample letter 3) as a template to comply with this requirement. Before approving a cleanup proposal or site closure proposal, determining that no further action is required, or issuing a closure letter, the local agency will take all reasonable steps necessary to accommodate responsible landowner participation in the cleanup and site closure process and will consider all input and recommendations from any responsible landowner.

Please call me at (510) 567-6780 should you have any questions about the content of this letter.

Sincerely,

Susan L. Hugo
Hazardous Materials Specialist

Attachments

cc: Chuck Headlee, RWQCB
SH / files

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

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

June 9, 1999

STID 147

Mr. Dan Nourse
Warcham Property Group
1120 Nye Street, Suite 400
San Rafael, California 94901

RE: Former Peterson Manufacturing Company (STID # 147)
1600 63rd Street, Emeryville, CA 94608

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1) consider a cleanup proposal (corrective action plan)

2) consider a site closure proposal

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4) issue a closure letter

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Please call me at (510) 567-6780 should you have any questions about the content of this letter.

Sincerely,

Susan L. Hugo
Hazardous Materials Specialist

Attachments

cc: Chuck Headlee, RWQCB
SH / files

SAMPLE LETTER (2): LIST OF LANDOWNERS FORM

Name of local agency
Street address
City

SUBJECT: CERTIFIED LIST OF RECORD FEE TITLE OWNERS FOR (*Site Name and Address*)

(Note: Fill out item 1 if there are multiple site landowners. If you are the sole site landowner, skip item 1 and fill out item 2.)

1. In accordance with section 25297.15(a) of Chapter 6.7 of the Health & Safety Code, I, *(name of primary responsible party)*, certify that the following is a complete list of current record fee title owners and their mailing addresses for the above site:

2. In accordance with section 25297.15(a) of Chapter 6.7 of the Health & Safety Code, I, *(name of primary responsible party)*, certify that I am the sole landowner for the above site.

Sincerely,

Signature of primary responsible party

Name of primary responsible party

SAMPLE LETTER 3: NOTICE OF PROPOSED ACTION SUBMITTED TO LOCAL AGENCY

Name of local agency
Street address
City

SUBJECT: NOTICE OF PROPOSED ACTION SUBMITTED TO LOCAL AGENCY FOR *(Site Name and Address)*

In accordance with section 25297,15(a) of Chapter 6.7 of the Health & Safety Code, I, (*name of primary responsible party)*, certify that I have notified all responsible landowners of the enclosed proposed action. Check space for applicable proposed action(s):

___ cleanup proposal (corrective action plan)

___ site closure proposal

___ local agency intention to make a determination that no further action is required

___ local agency intention to issue a closure letter

Sincerely,

Signature of primary responsible party

Name of primary responsible party

cc: Names and addresses of all record fee title owners

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

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

April 29, 1999

Mr. Dan Nourse
Wareham Property Group
1120 Nye Street, Suite 400
San Rafael, California 94901

Subject: **Former Peterson Manufacturing Co. (STID # 147)**
1600 63rd Street, Emeryville, California 94608

Dear Mr. Nourse:

This agency has reviewed the Additional Ground Water Investigation Work Plan (February 23, 1999) prepared and submitted by Soma Corporation for the above subject site.

As you know, I met with Mr. Glenn Leong of Soma and Mr. Jeff Hennier of Azure Environmental on April 7, 1999 to discuss the elements of the work plan and issues related to the investigation of potential presence of contaminants in the deep ground water at the site.

The work plan is acceptable provided the following items are addressed:

1. No vertical conduits and/or cross contamination should be created between shallow and deeper aquifer.
2. The cone penetrometer test is proposed to collect geologic data to a depth of approximately 150 feet. However, the well decommissioned at the site was 322 feet deep with perforated intervals from 72 to 113 feet, 134 to 166 feet and 195 to 227 feet below ground surface (bgs). The need to assess the presence of contaminants deeper than 150 feet bgs will be evaluated depending on the results of this investigation.
3. The extent of contamination in the shallow groundwater must be determined. The five monitoring wells at the site must be sampled prior to implementing the proposed deep ground water investigation.
4. The CPT boring will be relocated (as discussed in the meeting) downgradient of the deep well depending on site conditions.
5. In addition to ground water samples, soil samples (approximately two to three samples) must also be collected preferably at depths where contamination may be present due to vertical migration.
6. Soil and groundwater samples must be analyzed for all contaminants found in the deep well prior to its abandonment in addition to Total Petroleum Hydrocarbon (TPH) as gasoline, TPH as diesel, TPH as motor oil, benzene, toluene, ethyl benzene, xylene, methyl tertiary butyl ether (MTBE), polychlorinated biphenyl's (PCBs), semi-volatiles, pesticide and chlorinated hydrocarbons. Volatile organic compounds (VOCs) should be analyzed using EPA Method 8010.
7. The presence of the abandoned creek at the site acting as a preferential pathway for migration of contaminants must be evaluated.
8. Prior to evaluating the case for closure, additional soil and groundwater samples downgradient of monitoring well MW-2 should be collected to show that the plume has not migrated off the site.
9. Please notify our office at least 72 hours in advance of any field activity at the site.

A report documenting the results of this investigation must be submitted to this office no later than 60 days after completion of the work plan implementation.

If you have any questions concerning this letter or the subject site, please contact me at (510) 567-6780.

Sincerely,

Susan L. Hugo

Susan L. Hugo
Hazardous Materials Specialist

cc: Chuck Headlee, San Francisco Bay RWQCB
Glenn Leong, Soma Corp., 1260B 45th Street, Emeryville, CA 94608
SH/ files

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

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

August 26, 1999

Mr. Richard Robbins
Wareham Property Group
1120 Nye Street, Suite 400
San Rafael, California 94901

Mr. Alan Johnson
Federal Express Corporation
8950 Cal Center Dr., Suite 370
Sacramento, California 95826

Subject: Request for an Extension Regarding Notice of Violation Issued for Federal Express Facility - 1600 63rd Street, Emeryville, CA 94608 (STID #147)

Dear Messrs. Robbins and Johnson:

This agency has received a letter dated August 25, 1999 from Federal Express Corporation requesting an extension to submit a copy of the **owner / operator agreement** for the two underground storage tanks (USTs) at the subject site.

A **Notice of Violation** was issued to Wareham Property Group (owner of the tanks) and Federal Express Corporation (operator of the tanks) by this office on August 11, 1999. Wareham Property Group and Federal Express Corporation failed to submit the owner / operator agreement in accordance with the California Code of Regulations, Title 23, Section 2620 (b).

It is our understanding that Mr. Richard Robbins of Wareham Property Group is not available until next week (August 30, 1999). Based on the information provided to our office, the deadline for **the submission of the owner / operator agreement has been extended to September 10, 1999.**

The owner / operator agreement must be submitted to this agency **no later than September 10, 1999.** Failure to comply with this requirement will result in our agency proceeding with revocation of the Certificate of Compliance and hence, no fuel can be delivered at the subject site.

If you have any questions regarding this letter or the subject site, please contact me at (510) 567-6780.

Sincerely,

Susan L. Hugo
Hazardous Materials Specialist

c: Chuck Headlee, San Francisco Bay RWQCB
George Warren, City of Emeryville Fire Department, 2333 Powell St., Emeryville, CA 94608
Ariu Levi, Chief, Hazardous Materials Program
Tom Peacock, Manager, Hazardous Materials Program
Barbara Hodick, Federal Express Corporation, 3975 Airways Blvd. Memphis, TN 38116
Glenn Leong, Soma Corp., 1260 B 45th Street, Emeryville, CA 94608
Robert Weston / SH/ file

Federal [illegible] Corporation
Environ[illegible] Engineering
8950 Cal Center Drive, Suite 370
Sacramento, CA 95826-3259
Telephone 916-361-5547

FedEx
Federal Express

August 25, 1999

Ms. Susan L. Hugo
Alameda County Health Care Services
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
Phone (510) 567-6700
Fax (510) 337-9335

RE: JEMA – 1600 63rd Street, Emeryville, CA 94608
Underground Storage Tank (UST) Owner/Operator Agreement
STID #147

Dear Ms. Hugo,

We attempted to contact Mr. Robbins, Wareham Properties, to request permission to release the "excerpts" in our lease that pertains to the "Owner/Operator" responsibilities regarding the UST(s). Mr. Robbins is not available until next week. We are requesting an extension of time to 9-10-99 to finalize your request.

Please sign the bottom of this letter granting the extension and fax it to me.

Sincerely,

Alan O. Johnson

Alan O. Johnson
Project Manager
Environmental Engineering
916/361-5547
fax - 916/361-5921

Susan L. Hugo _____ Date

cc: Mr. Richard Robbins, Wareham Property Group
Mr. Chuck Headlee, San Francisco Bay RWQCB
Mr. George Warren, City of Emeryville Fire Department
Ms. Barbara Hodick, Federal Express Corp.
Mr. Glenn Leong, Soma Corp. (fax -- 510/654-1960)

Talked to 2 people @ Wareham

8950 Cal Center Dr. Suite 370
Sacramento CA 958 26

NSMIT REPORT

1999,04-29 19:22
510 337 9335
ALAMEDA CO EHS HAZ-OPS

COM No.	REMOTE STATION	START TIME	DURATION	PAGES	RESULT	USER ID	REMARKS
440	510 654 1960	04-29 19:21	00'47	02/02	OK		

7499402046

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

Post-It™ brand fax transmittal memo 7671 | # of pages ▸ 2

To GLENN LEONG	From SUSAN HUGO
Co. SOMA CORP.	Co. ACDEH
Dept.	Phone #
Fax # 654-1960	Fax # 337-9335

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

April 29, 1999

Mr. Dan Nourse
Wareham Property Group
1120 Nye Street, Suite 400
San Rafael, California 94901

Subject: **Former Peterson Manufacturing Co. (STID # 147)**
1600 63rd Street, Emeryville, California 94608

Dear Mr. Nourse:

This agency has reviewed the Additional Ground Water Investigation Work Plan (February 23, 1999) prepared and submitted by Soma Corporation for the above subject site.

As you know, I met with Mr. Glenn Leong of Soma and Mr. Jeff Hennier of Azure Environmental on April 7, 1999 to discuss the elements of the work plan and issues related to the investigation of potential presence of contaminants in the deep ground water at the site.

The work plan is acceptable provided the following items are addressed:

1. No vertical conduits and/or cross contamination should be created between shallow and deeper aquifer.
2. The cone penetrometer test is proposed to collect geologic data to a depth of approximately 150 feet. However, the well decommissioned at the site was 322 feet deep with perforated intervals from 72 to 113 feet, 134 to 166 feet and 195 to 227 feet below ground surface (bgs). The need to assess the presence of contaminants deeper than 150 feet bgs will be evaluated depending on the results of this investigation.
3. The extent of contamination in the shallow groundwater must be determined. The five monitoring wells at the site must be sampled prior to implementing the proposed deep ground water investigation.
4. The CPT boring will be relocated (as discussed in the meeting) downgradient of the deep well depending on site conditions.
5. In addition to ground water samples, soil samples (approximately two to three samples) must also be

HOP 147

Hugo, Susan, Public Health, EH
From: soma [soma@slip.net]
Sent: Friday, April 02, 1999 8:23 AM
To: SHugo@co.alameda.ca.us
Cc: dnourse@warehamdevelopment.com; Azureenv@aol.com
Subject: Confirmation of Meeting for former Petersen Site

Susan,

This e-mail is to confirm a meeting for SOMA's proposed groundwater work at the 1600 63rd Street/former Petersen Site in Emeryville. The meeting will be held at SOMA's office in Emeryville (1260B 45th Street) on April 7th, Wednesday, at 10 AM. We will discuss your comments on our work plan. Our goal is to reach resolution on the comments and proceed with the field work as soon as possible.

See you then.

Glenn Ieong

SOMA Corporation
1260B 45th Street
Emeryville, CA 94608
(510) 654-3900
(510) 654-1960 - Fax
soma@slip.net

4/7/99 Meeting w/ Jeff & Glenn

1) U.I.C up 150 ft → evaluate need to go 300 ft.
2) location of CPT -
3) sample 5 wells
4) 2-3 soils → to collect
5) MTBE ✓ Shallow to be done
6) MTBE - deep aquifer ?
7) trench - abandoned creek

Alameda County Environmental Health Services

STID # 147
Page 1 of 1

Underground Storage Tank Operating Permit

Issue Date- December 22, 1998
Expiration Date- **May 19, 2003**

This permit is issued to the underground storage tank owner. It must be kept at the UST location at all times.
An application for the renewal of this permit must be filed with this office prior to the expiration date.
The permit holder must notify Alameda County Environmental Health Services within 30 days of any changes to the permit or UST systems, unless required to obtain approval before making the change.

UST Facility Name- Federal Express Corp. Address- 1600 - 63rd St, Emeryville, CA 94608 (Tank Location) Phone- 510-547-8503
Tank Operator- Federal Express Corp.
Tank Owner- Warham Group Address- 1120 Nye St. Ste. 400, San Rafael, CA 94901 Phone- 415-457-4964

Total Number of USTs- **2**
Emergency/Spill Response Plan- **Yes**
Certification of Financial Responsibility- **Yes**
Emergency Contact Person (day)- Donna Escobar Phone- 510-547-8503
Emergency Contact Person (night)- Donna Escobar Phone- 510-547-8503
BOE # TY(TK)HQ-44-035579 Current Plot Plan- Yes

Owner's Tank ID # --------	#1	#2
1- State UST I.D. from Form B (01-000-)	1- 300147-000001	300147-000002
2- Capacity (gallons)	2- 10,000	550
3- Hazardous Substance Stored	3- Gasoline	Waste Oil
4- Monitoring Method for Tank	4- Interstitial	Interstitial
5- Tank Monitoring Frequency	5- Continuous	Continuous
6- Tank Monitoring Alarm?	6- Visible/Audible	Visible/Audible
7- Tank Integrity Test (frequency)	7- None	None
8- Monitoring Method for Piping	8- Suction	None
9- Piping Monitoring Frequency	9- Daily	None
10- Piping Monitoring Alarm?	10- Audible/Visible	None
11- Pump Shutdown?	11- No	N/A
12- Piping Precision Test (frequency)	12- None	Biennial
13- Overfill (device)	13- Auto Shutoff	Visible/Audible
14- Spill Container/Size (gallons)	14- 15	5
15- Corrosion Protection (method)	15- Fiberglass	Fiberglass

This operating permit is granted subject to the following conditions:

A. All applicable state UST requirements contained in the California Code of Regulations, Title 23, Division 3, Chapters 16 and 18, the California Health & Safety Code, Division 20, Chapters 6.7 and 6.75, and all applicable local requirements.

B. The owner or operator must report any unauthorized releases to the environment to Alameda County Environmental Health Services within 24 hours after the release has been detected or should have been detected. **[Call (510)567-6700 M-F from 8:30 to 5, and (510)667-7721 after hours]**

C. The owner or operator must comply with the approved routine monitoring procedures and response plan which are attached to this permit.

D. Monitoring and maintenance records must be maintained on-site for 3 years.

Issued by_____ Date_____

SOMA
ENVIRONMENTAL
PROTECTION CORPORATION

November 18, 1998

98 NOV 19 PM 4:39 SOMA 96-2081

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Subject: Confirmation of Status of 1600 63rd Street, Emeryville, California

Dear Ms. Hugo:

I am writing to inquire about the status of your inquiries with the Regional Water Quality Control Board (RWQCB) regarding the subject site. As you will recall from our meeting on, September 29, 1998, we are planning to initiate the last round of shallow groundwater sampling and the completion of a deeper temporary well, pending your inquiry with the RWQCB. There was some question about their deeper aquifer concerns. Additionally, you were going to check on data available from the Shellmound Site and the Pepsi Site regarding deeper well data.

Our client, Mr. Dan Nourse representing 1600 63rd Street Associates (the current owner of the property) has asked about the status of the project. Please let me know the status of your RWQCB communications and when we should plan to initiate the field work.

Thank you very much for your assistance in this matter. If you have any questions, please call me at (510) 654-3900.

Sincerely,

Glenn M. Leong
Vice President and Senior Scientist

1260B 45th Street • Emeryville, CA 94608
(510) 654-3900 • FAX (510) 654-1960

SOMA
CORPORATION

September 18, 1998 SOMA 96-2081

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Subject: Confirmation of Meeting on September 29, 1998 for 1600 63rd Street, Emeryville, California

Dear Ms. Hugo:

This letter confirms our meeting scheduled at your office at 11:00 AM on Tuesday, September 29, 1998. The meeting is being held to discuss SOMA Corporation's "Summary of Remedial Activities and Recommended Site Closure Measures Report, 1600 63rd Street, Emeryville, California" dated July 30, 1998 that was submitted to you for review. Attending the meeting will be myself and Mr. Jeff Hennier, R.G. representing SOMA Corporation, and Mr. Dan Nourse representing 1600 63rd Street Associates (the current owner of the property).

Thank you very much for fitting this meeting into your busy schedule. If you have any questions, please call me at (510) 654-3900. Otherwise, I'll see you on September 29, 1998.

Sincerely,

Glenn M. Leong
Vice President and Senior Scientist

cc: Dan Nourse, 1600 63rd Street Associates, Inc.

1260B 45th Street • Emeryville, CA 94608
(510) 654-3900 • FAX (510) 654-1960

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B

COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONE ITEM: ☐ 1 NEW PERMIT ☐ 2 INTERIM PERMIT ☐ 3 RENEWAL PERMIT ☐ 4 AMENDED PERMIT ☒ 5 CHANGE OF INFORMATION ☐ 6 TEMPORARY TANK CLOSURE ☐ 7 PERMANENTLY CLOSED ON SITE ☐ 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: FEDERAL EXPRESS

I. TANK DESCRIPTION

COMPLETE ALL ITEMS -- SPECIFY IF UNKNOWN

A. OWNER'S TANK I. D. #

B. MANUFACTURED BY: OWENS CORNING TANKS

C. DATE INSTALLED (MO/DAY/YEAR) 9/88

D. TANK CAPACITY IN GALLONS: 10,000

II. TANK CONTENTS

IF A-1 IS MARKED, COMPLETE ITEM C.

A. ☒ 1 MOTOR VEHICLE FUEL ☐ 2 PETROLEUM ☐ 3 CHEMICAL PRODUCT ☐ 4 OIL ☐ 80 EMPTY ☐ 95 UNKNOWN

B. ☒ 1 PRODUCT ☐ 2 WASTE

C. ☒ 1a REGULAR UNLEADED ☐ 1b PREMIUM UNLEADED ☐ 1c MIDGRADE UNLEADED ☐ 2 LEADED ☐ 3 DIESEL ☐ 4 GASAHOL ☐ 5 JET FUEL ☐ 6 AVIATION GAS ☐ 7 METHANOL ☐ 8 M85 ☐ 99 OTHER (DESCRIBE IN ITEM D. BELOW)

D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED 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: ☒ 1 DOUBLE WALL ☐ 2 SINGLE WALL ☐ 3 SINGLE WALL WITH EXTERIOR LINER ☐ 4 SINGLE WALL IN A VAULT ☐ 5 INTERNAL BLADDER SYSTEM ☐ 95 UNKNOWN ☐ 99 OTHER

B. TANK MATERIAL (Primary Tank): ☐ 1 BARE STEEL ☐ 2 STAINLESS STEEL ☒ 3 FIBERGLASS ☐ 4 STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC ☐ 5 CONCRETE ☐ 6 POLYVINYL CHLORIDE ☐ 7 ALUMINUM ☐ 8 100% METHANOL COMPATIBLE W/FRP ☐ 9 BRONZE ☐ 10 GALVANIZED STEEL ☐ 95 UNKNOWN ☐ 99 OTHER

C. INTERIOR LINING OR COATING: ☐ 1 RUBBER LINED ☐ 2 ALKYD LINING ☐ 3 EPOXY LINING ☐ 4 PHENOLIC LINING ☐ 5 GLASS LINING ☒ 6 UNLINED ☐ 95 UNKNOWN ☐ 99 OTHER

IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___

D. EXTERIOR CORROSION PROTECTION: ☐ 1 POLYETHYLENE WRAP ☐ 2 COATING ☐ 3 VINYL WRAP ☒ 4 FIBERGLASS REINFORCED PLASTIC ☐ 5 CATHODIC PROTECTION ☐ 91 NONE ☐ 95 UNKNOWN ☐ 99 OTHER

E. SPILL AND OVERFILL, etc. SPILL CONTAINMENT INSTALLED (YEAR) REQUIRED '98 DROP TUBE YES ✓ NO ___ STRIKER PLATE YES ✓ NO ___ OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) 98 ✓ DISPENSER CONTAINMENT YES ✓ NO ___

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 4 FLEXIBLE PIPING 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 MECHANICAL LINE LEAK DETECTOR ☐ 2 LINE TIGHTNESS TESTING ☑ 3 CONTINUOUS INTERSTITIAL MONITORING ☐ 4 ELECTRONIC LINE LEAK DETECTOR ☑ 5 AUTOMATIC PUMP SHUTDOWN ☐ 99 OTHER

V. TANK LEAK DETECTION

☐ 1 VISUAL CHECK ☐ 2 MANUAL INVENTORY RECONCILIATION ☐ 3 VADOZE MONITORING ☑ 4 AUTOMATIC TANK GAUGING ☐ 5 GROUND WATER MONITORING ☐ 6 ANNUAL TANK TESTING ☑ 7 CONTINUOUS INTERSTITIAL MONITORING ☐ 8 SIR ☐ 9 WEEKLY MANUAL TANK GAUGING ☐ 10 MONTHLY TANK TESTING ☐ 95 UNKNOWN ☐ 99 OTHER

VI. TANK CLOSURE INFORMATION (PERMANENT CLOSURE IN-PLACE)

1. ESTIMATED DATE LAST USED (MO/DAY/YR) N/A

2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING ___ GALLONS

3. WAS TANK FILLED WITH INERT MATERIAL? YES ☐ NO ☐

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

TANK OWNER'S NAME (PRINTED & SIGNATURE) JACK BAILEY DATE 9-1-98

LOCAL AGENCY USE ONLY

THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATE I.D.#	COUNTY #	JURISDICTION #	FACILITY #	TANK #
	01	000	30617	00001

PERMIT NUMBER | PERMIT APPROVED BY/DATE | PERMIT EXPIRATION DATE

12/98

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED. FORM C MUST BE COMPLETED FOR INSTALLATIONS. THIS FORM SHOULD BE ACCOMPANIED BY A PLOT PLAN. FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

INSTRUCTIONS FOR COMPLETING FORM "B"

GENERAL INSTRUCTIONS

Section 2711 of Title 23, Division 3, Chapter 16, California Code of Regulations and sections 25286, 25287, and 25289 of Chapter 6.7, Division 20, Health and Safety Code require tank owners to apply for an UST operating permit.

1. One FORM "B" shall be completed for each tank for all NEW PERMITS, PERMIT CHANGES, REMOVALS and/or any other TANK INFORMATION CHANGE.
2. This form should be completed by either the PERMIT APPLICANT or the LOCAL AGENCY UNDERGROUND TANK INSPECTOR.
3. Please type or print clearly all requested information.
4. Use a hard point writing instrument, you are making 3 copies.
5. Tank owners must submit a plot plan to the local agency showing the location of the USTs with respect to buildings and landmarks [2711 (a)(8) CCR].
6. Tank owners must submit documentation showing compliance with state financial responsibility requirements to the local agency for petroleum USTs [2711 (a)(11) CCR].

TOP OF FORM: MARK ONLY ONE ITEM

1. Mark an (X) in the box next to the item that best describes the reason the form is being completed.
2. Indicate the DBA or Facility name where the tank is installed.

I. TANK DESCRIPTION - COMPLETE ALL ITEMS - IF UNKNOWN - SO SPECIFY

A. Indicate owners tank ID # - If there is a tank number that is used by the owner to identify the tank (ex. AB70789).
B. Indicate the name of the company that manufactured the tank (ex. ACME TANK MFG).
C. Indicate the year the tank was installed (ex. 1987).
D. Indicate the tank capacity in gallons (ex. 25,000 or 10,000 etc.).

II. TANK CONTENTS

A. 1. IF MOTOR VEHICLE FUEL, check box 1 and complete items B & C.
2. If not MOTOR VEHICLE FUEL, check the appropriate box in section A and complete items B & D.
B. Check the appropriate box.
C. Check the type of MOTOR VEHICLE FUEL (if box 1 is checked in A).
D. Print the chemical name of the hazardous substance stored in the tank and the C.A.S.#. (Chemical Abstract Service number), if box 1 is NOT checked in A.

III. TANK CONSTRUCTION - MARK ONE ITEM ONLY IN BOX A, B, C & D

1. Check only one item in TYPE OF SYSTEM, TANK MATERIAL, INTERIOR LINING and CORROSION PROTECTION.
2. If OTHER, print in the space provided.

IV. PIPING INFORMATION

1. Circle "A" if above ground circle "U" if underground, and circle both if applicable.
2. If UNKNOWN circle; or if OTHER, print in space provided.
3. Indicate the LEAK DETECTION system(s) used to comply with the monitoring requirement for the piping.

V. TANK LEAK DETECTION

1. Indicate the LEAK DETECTION system(s) used to comply with the monitoring requirements for the tank.

VI. INFORMATION ON TANK PERMANENTLY CLOSED IN PLACE

1. ESTIMATED DATE LAST USED - MONTH/YEAR (January, 1988 or 01/88)
2. ESTIMATED QUANTITY of HAZARDOUS SUBSTANCE remaining in the tank (in Gallons).
3. WAS TANK FILLED WITH INERT MATERIAL? Check "Yes" or "No".

TANK OWNER OR AUTHORIZED REPRESENTATIVE MUST SIGN AND DATE THE FORM AS INDICATED [see section 2711 (a)(13) CCR]

INSTRUCTION FOR THE LOCAL AGENCIES

The state underground storage tank identification number is composed of the two digit county number, the three digit jurisdiction number, the six digit facility number and the six digit tank number. The county and jurisdiction numbers are predetermined and can be obtained by calling the State Board (916) 227-4303. The facility number must be the same as shown in form "A". The tank number may be assigned by the local agency, however, this number must be numerical and cannot contain an alphabet. If the local agency prefers the State Board to assign the tank number, please leave it blank.

IT IS THE RESPONSIBILITY OF THE LOCAL AGENCY THAT INSPECTS THE FACILITY TO VERIFY THE ACCURACY OF THE INFORMATION. THE LOCAL AGENCY IS RESPONSIBLE FOR THE COMPLETION OF THE "LOCAL AGENCY USE ONLY" INFORMATION BOX. THE LOCAL AGENCY SHOULD RETAIN THE ORIGINAL AND YELLOW COPIES. THE PINK COPY SHOULD BE RETAINED BY THE TANK OWNER.

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD

UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM A

#147

COMPLETE THIS FORM FOR EACH FACILITY/SITE

MARK ONLY ONE ITEM: ☐ 1 NEW PERMIT ☐ 2 INTERIM PERMIT ☐ 3 RENEWAL PERMIT ☐ 4 AMENDED PERMIT ☒ 5 CHANGE OF INFORMATION ☐ 6 TEMPORARY SITE CLOSURE ☐ 7 PERMANENTLY CLOSED SITE

I. FACILITY/SITE INFORMATION & ADDRESS - (MUST BE COMPLETED)

DBA OR FACILITY NAME: Federal Express Corp.		NAME OF OPERATOR: Federal Express Corp.	
ADDRESS: 1600 63rd St.		NEAREST CROSS STREET	PARCEL # (OPTIONAL)
CITY NAME: Emeryville	STATE: CA / ZIP CODE: 94608		SITE PHONE # WITH AREA CODE: (510) 547-8503

✓ BOX TO INDICATE: ☒ CORPORATION ☐ INDIVIDUAL ☐ PARTNERSHIP ☐ LOCAL-AGENCY DISTRICTS ☐ COUNTY-AGENCY * ☐ STATE-AGENCY * ☐ FEDERAL-AGENCY *

* 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: ☐ 1 GAS STATION ☐ 2 DISTRIBUTOR ☐ 3 FARM ☐ 4 PROCESSOR ☒ 5 OTHER	☐ ✓ IF INDIAN RESERVATION OR TRUST LANDS	# OF TANKS AT SITE: 2	E. P. A. I. D. # (optional): CAL000035562

EMERGENCY CONTACT PERSON (PRIMARY)		EMERGENCY CONTACT PERSON (SECONDARY) - optional	
DAYS: NAME (LAST, FIRST): Danielson, James	PHONE # WITH AREA CODE: (510) 547-8503	DAYS: NAME (LAST, FIRST): Chris Akers	PHONE # WITH AREA CODE: (510) 547-8503
NIGHTS: NAME (LAST, FIRST): Same	PHONE # WITH AREA CODE: (510) 655-9459	NIGHTS: NAME (LAST, FIRST): Same	PHONE # WITH AREA CODE: (510) 516-5980

II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)

NAME: Warham Group		CARE OF ADDRESS INFORMATION: Mark Scher	
MAILING OR STREET ADDRESS: 1120 NYE St., Suite 400		✓ box to indicate: ☐ INDIVIDUAL ☐ LOCAL-AGENCY ☐ STATE-AGENCY ☐ CORPORATION ☐ PARTNERSHIP ☐ COUNTY-AGENCY ☐ FEDERAL-AGENCY	
CITY NAME: San Rafael	STATE: CA / ZIP CODE: 94901		PHONE # WITH AREA CODE: (415) 457-4964

III. TANK OWNER INFORMATION - (MUST BE COMPLETED)

NAME OF OWNER: Same As Above		CARE OF ADDRESS INFORMATION	
MAILING OR STREET ADDRESS		✓ box to indicate: ☐ INDIVIDUAL ☐ LOCAL-AGENCY ☐ STATE-AGENCY ☐ CORPORATION ☐ PARTNERSHIP ☐ COUNTY-AGENCY ☐ FEDERAL-AGENCY	
CITY NAME	STATE / ZIP CODE		PHONE # WITH AREA CODE

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER - Call (916) 322-9669 if questions arise.

TY (TK) HQ 44-035579

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 ☐ 7 STATE FUND ☐ 8 STATE FUND & CHIEF FINANCIAL OFFICER LETTER ☐ 9 STATE FUND & CERTIFICATE OF DEPOSIT ☐ 10 LOCAL GOVT. MECHANISM ☐ 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

TANK OWNER'S NAME (PRINTED & SIGNATURE)	TANK OWNER'S TITLE	DATE MONTH/DAY/YEAR
FYI FX James Danielson for Dan	Sr Manager	3/19/98

LOCAL AGENCY USE ONLY

COUNTY #	JURISDICTION #	FACILITY #	
02	000	30 01 47	5/14/98

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

#147

COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM

MARK ONLY ONE ITEM: ☐ 1 NEW PERMIT ☒ 3 RENEWAL PERMIT ☐ 5 CHANGE IN INFORMATION ☐ PERMANENT CLOSURE
☐ 2 INTERIM PERMIT ☐ 4 AMENDED PERMIT ☐ 6 TEMPORARY TANK CLOSURE ☐ TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: Federal Express Corp.

I. TANK DESCRIPTION
COMPLETE ALL ITEMS – SPECIFY IF UNKNOWN

A. OWNER'S TANK I. D. # 67626 (#2)	B. MANUFACTURED BY: Xerxes
C. DATE INSTALLED (MO/DAY/YEAR) 6/88	D. TANK CAPACITY IN GALLONS: 550

II. TANK CONTENTS
IF A-1 IS MARKED, COMPLETE ITEM C.

A. ☐ 1 MOTOR VEHICLE FUEL ☐ 2 PETROLEUM ☐ 3 CHEMICAL PRODUCT ☒ 4 OIL ☐ 80 EMPTY ☐ 95 UNKNOWN

B. ☐ 1 PRODUCT ☒ 2 WASTE

C. ☐ 1a REGULAR UNLEADED ☐ 1b PREMIUM UNLEADED ☐ 1c MIDGRADE UNLEADED ☐ 2 LEADED ☐ 3 DIESEL ☐ 4 GASAHOL ☐ 5 JET FUEL ☐ 99 OTHER (DESCRIBE IN ITEM D. BELOW) ☐ 6 AVIATION GAS ☐ 7 METHANOL ☐ 8 M85

D. IF (A-1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED: Used oil 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: ☒ 1 DOUBLE WALL ☐ 2 SINGLE WALL ☐ 3 SINGLE WALL WITH EXTERIOR LINER ☐ 4 SINGLE WALL IN A VAULT ☐ 5 INTERNAL BLADDER SYSTEM ☐ 95 UNKNOWN ☐ 99 OTHER

B. TANK MATERIAL (Primary Tank): ☐ 1 BARE STEEL ☐ 2 STAINLESS STEEL ☒ 3 FIBERGLASS ☐ 4 STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC ☐ 5 CONCRETE ☐ 6 POLYVINYL CHLORIDE ☐ 7 ALUMINUM ☐ 8 100% METHANOL COMPATIBLE W/FRP ☐ 9 BRONZE ☐ 10 GALVANIZED STEEL ☐ 95 UNKNOWN ☐ 99 OTHER

C. INTERIOR LINING OR COATING: ☐ 1 RUBBER LINED ☐ 2 ALKYD LINING ☐ 3 EPOXY LINING ☐ 4 PHENOLIC LINING ☐ 5 GLASS LINING ☒ 6 UNLINED ☐ 95 UNKNOWN ☐ 99 OTHER
IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___

D. EXTERIOR CORROSION PROTECTION: ☐ 1 POLYETHYLENE WRAP ☐ 2 COATING ☐ 3 VINYL WRAP ☒ 4 FIBERGLASS REINFORCED PLASTIC ☐ 5 CATHODIC PROTECTION ☐ 91 NONE ☐ 95 UNKNOWN ☐ 99 OTHER

E. SPILL AND OVERFILL, etc. SPILL CONTAINMENT INSTALLED (YEAR) ___ DROP TUBE YES ___ NO X STRIKER PLATE YES ___ NO ___ OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) 88 DISPENSER CONTAINMENT YES ___ NO NA

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 4 FLEXIBLE PIPING	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 MECHANICAL LINE LEAK DETECTOR	☒ 2 LINE TIGHTNESS TESTING	☐ 3 CONTINUOUS INTERSTITIAL MONITORING	☐ 4 ELECTRONIC LINE LEAK DETECTOR	☐ 5 AUTOMATIC PUMP SHUTDOWN	☐ 99 OTHER	

V. TANK LEAK DETECTION

☐ 1 VISUAL CHECK ☒ 7 CONTINUOUS INTERSTITIAL MONITORING ☐ 2 MANUAL INVENTORY RECONCILIATION ☐ 8 SIR ☐ 3 VADOZE MONITORING ☐ 9 WEEKLY MANUAL TANK GAUGING ☐ 4 AUTOMATIC TANK GAUGING ☐ 10 MONTHLY TANK TESTING ☐ 5 GROUND WATER MONITORING ☒ ~~6 ANNUAL TANK TESTING~~ ☐ 95 UNKNOWN ☐ 99 OTHER

VI. TANK CLOSURE INFORMATION (PERMANENT CLOSURE IN-PLACE)

1. ESTIMATED DATE LAST USED (MO/DAY/YR)	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING ___ GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? YES ☐ NO ☐

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

TANK OWNER'S NAME (PRINTED & SIGNATURE): Fed Ex James Davidson [signature] DATE: 3/19/98

LOCAL AGENCY USE ONLY
THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATE I.D.#	COUNTY #	JURISDICTION #	FACILITY #	TANK #
	01	000	301047	000002

5/14/98

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. FORM C MUST BE COMPLETED FOR INSTALLATIONS. THIS FORM SHOULD BE ACCOMPANIED BY A PLOT PLAN. 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

#147

COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM

MARK ONE ITEM: ☐ 1 NEW PERMIT ☐ 2 INTERIM PERMIT ☐ 3 RENEWAL PERMIT ☐ 4 AMENDED PERMIT ☒ 5 CHANGE OF INFORMATION ☐ 6 TEMPORARY TANK CLOSURE ☐ TANK REMOVED OFF-SITE ☐ TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: Federal Express Corp.

I. TANK DESCRIPTION

COMPLETE ALL ITEMS – SPECIFY IF UNKNOWN

A. OWNER'S TANK I. D # G 7626 (#1)	B. MANUFACTURED BY: Xerxes
C. DATE INSTALLED (MO/DAY/YEAR) 6/88	D. TANK CAPACITY IN GALLONS: 10,000

II. TANK CONTENTS

IF A-1 IS MARKED, COMPLETE ITEM C.

A. ☒ 1 MOTOR VEHICLE FUEL ☐ 2 PETROLEUM ☐ 3 CHEMICAL PRODUCT ☐ 4 OIL ☐ 80 EMPTY ☐ 95 UNKNOWN

B. ☒ 1 PRODUCT ☐ 2 WASTE

C. ☒ 1a REGULAR UNLEADED ☐ 1b PREMIUM UNLEADED ☐ 1c MIDGRADE UNLEADED ☐ 2 LEADED ☐ 3 DIESEL ☐ 4 GASAHOL ☐ 5 JET FUEL ☐ 6 AVIATION GAS ☐ 7 METHANOL ☐ 8 M85 ☐ 99 OTHER (DESCRIBE IN ITEM D. BELOW)

D. IF (A-1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED: Unleaded Fuel 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: ☒ 1 DOUBLE WALL ☐ 2 SINGLE WALL ☐ 3 SINGLE WALL WITH EXTERIOR LINER ☐ 4 SINGLE WALL IN A VAULT ☐ 5 INTERNAL BLADDER SYSTEM ☐ 95 UNKNOWN ☐ 99 OTHER

B. TANK MATERIAL (Primary Tank): ☐ 1 BARE STEEL ☐ 2 STAINLESS STEEL ☒ 3 FIBERGLASS ☐ 4 STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC ☐ 5 CONCRETE ☐ 6 POLYVINYL CHLORIDE ☐ 7 ALUMINUM ☐ 8 100% METHANOL COMPATIBLE W/FRP ☐ 9 BRONZE ☐ 10 GALVANIZED STEEL ☐ 95 UNKNOWN ☐ 99 OTHER

C. INTERIOR LINING OR COATING: ☐ 1 RUBBER LINED ☐ 2 ALKYD LINING ☐ 3 EPOXY LINING ☐ 4 PHENOLIC LINING ☐ 5 GLASS LINING ☒ 6 UNLINED ☐ 95 UNKNOWN ☐ 99 OTHER
IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___

D. EXTERIOR CORROSION PROTECTION: ☐ 1 POLYETHYLENE WRAP ☐ 2 COATING ☐ 3 VINYL WRAP ☒ 4 FIBERGLASS REINFORCED PLASTIC ☐ 5 CATHODIC PROTECTION ☐ 91 NONE ☐ 95 UNKNOWN ☐ 99 OTHER

E. SPILL AND OVERFILL, etc. SPILL CONTAINMENT INSTALLED (YEAR) 98 DROP TUBE YES ✓ NO ___ STRIKER PLATE YES ___ NO ___ OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) 98 DISPENSER CONTAINMENT YES ___ NO ✓

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 4 FLEXIBLE PIPING; 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 MECHANICAL LINE LEAK DETECTOR ☒ 2 LINE TIGHTNESS TESTING ☐ 3 CONTINUOUS INTERSTITIAL MONITORING ☐ 4 ELECTRONIC LINE LEAK DETECTOR ☐ 5 AUTOMATIC PUMP SHUTDOWN ☒ 99 OTHER DAILY MONITORING

V. TANK LEAK DETECTION

☐ 1 VISUAL CHECK ☐ 2 MANUAL INVENTORY RECONCILIATION ☐ 3 VADOZE MONITORING ☐ 4 AUTOMATIC TANK GAUGING ☐ 5 GROUND WATER MONITORING ☒ 6 ANNUAL TANK TESTING ☒ 7 CONTINUOUS INTERSTITIAL MONITORING ☐ 8 SIR ☐ 9 WEEKLY MANUAL TANK GAUGING ☐ 10 MONTHLY TANK TESTING ☐ 95 UNKNOWN ☐ 99 OTHER

VI. TANK CLOSURE INFORMATION (PERMANENT CLOSURE IN-PLACE)

1. ESTIMATED DATE LAST USED (MO/DAY/YR)	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING _____ GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? ☐ YES ☐ NO

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

TANK OWNER'S NAME (PRINTED & SIGNATURE)	DATE
FedEx James Davidson	3/19/98

LOCAL AGENCY USE ONLY

THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATE I.D.#	COUNTY #	JURISDICTION #	FACILITY #	TANK #
	01	000	300147	00001

5/14/98

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. FORM C MUST BE COMPLETED FOR INSTALLATIONS. THIS FORM SHOULD BE ACCOMPANIED BY A PLOT PLAN. FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

I. ELECTRONIC MONITORING FOR DOUBLE-WALL TANKS

(CONTINUOUS MONITORING SYSTEM)

1. List the make and model of your electronic alarm control panel. Petrometer - Model TYPE 20T

2. Name the person responsible for checking the alarm control panel for an alarm condition.

NOTE: The monitor is located in the vehicle maintenance shop.

Name Vehicle Mechanic Title _____

Name _____ Title _____

3. How often is the alarm control panel checked? Daily

4. How many sensors are monitoring your tank and pipe system?

One (1) sensor - each tank.

PLEASE CHECK YES IF ANY OF THE METHODS OR EQUIPMENTS ARE USED IN YOUR LEAK DETECTION SYSTEM.
WRITE IN THE SCHEDULE OR FREQUENCY IN WHICH EQUIPMENT IS EXAMINED FOR PROPER OPERATION AND DATE OF LAST SERVICE.

IDENTIFY BY TANK, LEAK MONITORING METHODS AND EQUIPMENT USED

APPLICABLE TANK ID# SEE TABLE 1	YES	NO	MONITORING ALTERNATIVES AND EQUIPMENT	MAINTENANCE SCHEDULE FREQUENCY	MAINTENANCE SERVICE DATE
		X	DOUBLE-WALL TANK(S), ELECTRONIC INTERSTITIAL SPACE MONITORS		
1 & 2	X		DOUBLE-WALL PIPING, ELECTRONIC CONTINUOUS MONITORING OF TURBINE/PIPING SUMP		
			MECHANICAL PIPING FLOW RESTRICTOR WITH ANNUAL PIPING PRESSURE TEST		
	X		A. ANNUAL PIPING TEST AT 150% OF OPERATING PRESSURE		
		X	B. AUTOMATIC LINE LEAK DETECTOR EQUAL TO 3GPH AT 10PSI		
		X	C. AUTOMATIC PUMP SHUTDOWN WITH MONITORING SYSTEM FAILSAFE CONFIGURATION		
		X	ELECTRONIC LINE LEAK DETECTORS WITH POSITIVE SHUT DOWN OF TURBINE		
		X	PIPING TRENCH (ELECTRONIC MONITORING SYSTEM REQUIRED)		
1 & 2	X		TRIENNIAL PIPE TESTING FOR SUCTION PIPING (EVERY THREE YEARS), MAINTAIN DAILY RECORDS		
		N/A	CATHODIC PROTECTION OF PIPING & TANK		
			SINGLE WALL TANKS		
		N/A	MANUAL INVENTORY RECONCILIATION WITH ANNUAL TANK INTEGRITY TEST		
& 2	X		FILL TUBE POSITIVE SHUTOFF VALVE OR BALL FLOAT VENT VALVE		
1 & 2	X		OVERFILL CONTAINMENT BASINS ON FILL TUBES		
		N/A	STATISTICAL INVENTORY RECONCILIATION WITH BIENNIAL TANK INTEGRITY TEST		
		N/A	TANK VAULT BELOW GRADE (VISUAL MONITORING)		
1	X		DISPENSER CONTAINMENT continuous containment sloped to piping sump. no dispenser on w/o tank		
		X	MONTHLY AUTOMATIC TANK GAUGING (TEST WHEN TANK IS FILLED TO 90% CAPACITY ONCE A MONTH AND ACCURATE TO 0.2 GPH LEAK RATE) TEST RESULTS PRINTED OUT		

UNDERGROUND STORAGE TANK MONITORING PLAN

Facility Name Dba Federal Express Corp. Address 1600 63rd Street Phone 510/547-8503

Facility Owner/Operator James Danielson, Senior Manager Phone 510/547-8503

Address 1600 63rd Street City Emeryville

Tank Owner or Corporation Federal Express Corp. Phone 510/547-8503

Corporation Representative Barbara Hodick Phone 901/397-4485

Corporation Address 3975 Airways Blvd., Module E - 1st Floor City Memphis

Land Owner Warham Group

Address 1120 Nye Street, Suite 400 City San Rafael Phone 415/457-4964

Description of Underground Tanks

***D.W.=Double Wall *S.W.=Single Wall *L=Liner**

S = Steel FG = Fiberglass O = Other

	I.D.#	Tank Capacity	Contents	Construction & Material Indicate SW or DW or L & S or FG			
				Tank		Piping	
***EXAMPLE**	**1**	**10,000**	**Unleaded Gasoline**	**DW**	**FG**	**DW**	**FG**
	1	10,000	Unleaded Gasoline	DW	FG	DW	Interior-S Out. - FG
	2	550	Used Oil	DW	FG	DW	Int. - S Out. - FG

rev.lp;980113,consolid.ugt

PART III

LEAK RESPONSE PLAN
EMERGENCY NOTIFICATIONS

Station Dealer/Owner James Danielson Home Phone 510/655-9459

Office Phone 510/547-8503

Name of person(s) who may authorize cleanup work under response plan.

On Site Managers James Danielson Phone 510/547-8503

Manager, Operations - Chris Akers Phone 510/547-8503

Maintenance Manager N/A Phone

Shift lead N/A Phone

24hr Emergency Contact James Danielson Phone 510/547-8503

Fire Department Address 2333 Powell

Phone 510/596-3750

Emergency phone 911

Ambulance Phone 911

Police Department Address 2449 Powell

Phone 510/596-3700

Emergency phone 911

Equipment Maintenance Contractor

Company Pearson Equipment Co.

Address 18305 Lake Chabot Road City Castro Valley, CA 94546

Phone 510/889-7888 Contact Person Jack Bail

Local Hospital/Clinic Health Sough Clinic

Address 1350 Ocean Ave.

Phone 510/652-5800

If you suspect your tank system is leaking due to:

a) Failed tank / piping integrity test results
b) Electronic alarm signals or sounds

*** NOTIFY ALAMEDA COUNTY ENVIRONMENTAL HEALTH SERVICES.**

Federal Express Corporation
Environmental Management
3975 Airways Boulevard
Module E/First Floor
Memphis, TN 38116

U S Mail PO Box 727
Memphis, TN 38194-8415

Federal Express

VIA FEDEX

April 1, 1998

Mr. Robert Weston
Senior Hazardous Materials Specialist
Alameda County Heal th Agency
Division of Environmental Protection
Department of Environmental Health
1131 Harbor Bay Parkway
2nd Floor
Alameda, CA 94502

RE: Federal Express Corp. – JEM
1600 63rd Street
Emeryville, CA

Dear Mr. Weston:

Per your request for information, I am submitting the following documents for the above noted FedEx facility:

(1) Updated Form A and two updated Form B's for the underground storage tanks.

(2) Underground Storage Tank Monitoring Plan

Thank you for your assistance with this matter. If you have any questions or require additional information, please do not hesitate to contact me at 901/397-4485.

Sincerely,

FEDERAL EXPRESS CORPORATION

Barbara Hodick
Senior Environmental Specialist
Western Region

Bh
Enclosures
Cc: James Danielson, JEM
Karen Blanks
File

ALAMEDA COUNTY HAZARDOUS MATERIALS DIVISION

06/29/95

UNDERGROUND STORAGE TANK CLEANUP SITE

AGENCY#: 10000 SOURCE OF FUNDS: F-FEDERAL INSPECTOR: SH
StID: 147 SUBSTANCE: 8006619 -Gasoline
SITE NAME: Peterson Manufacturing Co.Inc. DATE REPORTED : 02/01/88
ADDRESS : 1600 63rd St DATE CONFIRMED: 02/01/88
CITY/ZIP : Emeryville, CA 94608 MULTIPLE RP's : Y

CASE TYPE: G CONTRACT STATUS: 4 PRIOR:2B4 EMERGENCY RESPONSE:

RP SEARCH	: S		DATE END: 03/17/92
PRELIM ASSESSMENT	: U	DATE BEGIN: 12/01/88	DATE END:
REMEDIAL INVESTIG	:	DATE BEGIN:	DATE END:
REMEDIAL ACTION	:	DATE BEGIN:	DATE END:
POST REMED MONITOR	:	DATE BEGIN:	DATE END:

TYPE ENFORCEMENT ACTION TAKEN: 2 DATE OF ENFORC. ACTION: 06/21/95

UNDERGROUND STORAGE TANK CLEANUP SITE - SCREEN #2

LUFT FIELD MANUAL CONSIDERATION: 3H CASE CLOSED: on:

DT EXC START: REMEDIAL ACTIONS TAKEN: IT

RP #1: CONTACT: Dan Nourse RP COST:
RP COMPANY NAME: Wareham Property Group Ph:
ADDRESS: 1120 Nye St. #400
CITY/STATE: San Rafael, C A 94901

ΔBaMENT:

SITE ID#: 147

ADDITIONAL RP'S

RP #2
CONTACT NAME: Richard Robbins
COMPANY NAME: 1600-63rd St. Assoc. RP Ph:
ADDRESS: 1120 Nye St. #400
CITY/ST/ZIP: San Rafael, C A 94901

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, Assistant Agency Director

ALAMEDA COUNTY-ENV. HEALTH DEPT.
ENVIRONMENTAL PROTECTION DIV.
1131 HARBOR BAY PKWY., #250
ALAMEDA CA 94502-6577
(510)567-6700

June 21, 1995
STID# 147

Dan Nourse
Wareham Property Group
1120 Nye St., #400
San Rafael, CA 94901

Re: 1600 - 63rd St., Emeryville, CA 94608

Dear Dan Nourse:

Notice of Violation

On March 8, 1993 you were sent a letter from this office which contained comments concerning a Quarterly Groundwater Monitoring Report dated February 16, 1993 by Harding Lawson Associates. Within this report in #5 was a reminder of your responsibility to perform quarterly groundwater monitoring and to submit a quarterly report to this office. Since that letter you have submitted no reports to this office.

You are hereby directed to conduct groundwater monitoring of the wells on your site and to submit a report thereof to this office within 30 days.

Further investigation needs to be done to delineate the verticle and lateral extent of contamination. **Please submit a workplan as attached within 60 days.**

This case will be refered to Susan Hugo of this office. If you have any questions concerning this matter please contact this office at (510) 567-6780.

Sincerely,

Thomas F. Peacock, Supervising HMS
Division of Environmental Protection

c: Richard Robbins, 1600-63rd St. Assoc., 1120 Nye St.#400, San Rafael, CA 94901
Jun Makishima, Acting Chief - Files
Gil Jensen, Alameda County District Attorney's Office

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, ASST AGENCY DIRECTOR

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

March 8, 1993
STID# 147

Dan Nourse
Wareham Property Group
1120 Nye St., #400
San Rafael, CA 94901

Re: 1600 - 63rd St., Emeryville, CA 94608

Dear Dan Nourse:

This office has received and reviewed the Quarterly Groundwater Monitoring Report (QGM) for November 1992 dated February 16, 1993 by Harding Lawson Associates. The following are comments concerning this site:

1. The QGM had a site map that showed location of monitoring wells but did **not** show where the underground tanks had been. There apparently used to be 6 underground tanks on the site. UST2 and UST3 are more than 200 feet upgradient from MW2. This was noted in the letter from this office dated August 28, 1992 but there has been no correction to the site drawing.

2. MW4 is more than 200 feet downgradient from the nearest tank site. Although continued analysis of this well may not be warranted it would be unwise to close the well.

3. An Engineering Science Plot Map showed the existence of a "MW1" adjacent to and downgradient from UST's 2 and 3. What has happened to this well. This question was asked in the Aug. 28, 1992 letter but has not been answered.

4. MW5 is cross gradient and in between Tanks 5 and 6. It, too should not be closed at this time. MW3 had 120 ppb TPHd only 2 quarters before the last sample. It is unacceptable to discontinue sampling of this well. The proposal to conduct sampling only semi-annually on only wells MW1 and MW2 is unacceptable.

5. There is no MW downgradient of UST1, the location of the highest contamination. **Further investigation needs to be done** to delineate the verticle and lateral extent of contamination. **Please submit a workplan as attached within 30 days.**

6. There are no recommendations or conclusions in this report. These should be added to give a plan of what is going to be happening on the site and why. The next quarterly report, for the 1st quarter, 1993, should be accomplished now.

If you have any questions concerning this matter please contact this office.

Sincerely,

Thomas F. Peacock, Supervising HMS
Hazardous Material Division

cc:Lester Feldman,RWQCB
Richard Robbins, 1600-63rd St. Assoc., 1120 Nye St.#400, San Rafael, CA 94901
Edgar B. Howell, Chief - Files
Gil Jensen, Alameda County District Attorney's Office

UGT Look Form: Facility and Tank Information

Next Previous

Facility Name / Owner	Facility Address / Mail Address	State# Stat
Federal Express	1600 63rd St	300147 C
Federal Express	Emeryville , CA 94608	#Tanks:2
Cont: Jim Danielson	1600 - 63rd St.	BILLING:
Phone: Fac: 547-8503	Emeryville , CA 94608	DateSent-
StID: Day: Emerg.#	State Surch.Date: 05/25/93	05/20/93
147 Nite: 655-9459 Emerg.#	FPerm 12/02/93 Old	Acct#T61100

PermHist: 2 UST Permitted. 2 new installed UST's. Removed 4 UST 03/88 under D:03/05/96 Peterson Mfrg. Co. state #10751 (# not in SWEEPS chng per CM 9/17)

TANK INFORMATION: type Last Test Freq (#Mos)

State## 300147001	Material		TANKS
TankID	CorrProt		PIPES
Location	SpilProt	Year Pump Interlock Installed:	
TStatus A	OverProt		
YrInstal 01/01/88	PIPE:Constr	Date St.Surcharge Received:	05/25/93
Capacity 10000	Material	Date Permit Issued:	12/02/93
Contents RegUnld	PLeakDet	Next State Surcharge Due:	
TLeakDet 1267		Bill Y/N	Y

STATUS: C=Current F=awaiting appl. B=ready to Bill R=tanks Removed E=Exempt
[ESC] Done [F2] Clear field [Shift-F2] Clear to end [Shift-F10] More
Form: UGTLook Table: UGTlist Field: BusName Page: 1

UGT Look Form: Facility and Tank Information

Next Previous

Facility Name / Owner	Facility Address / Mail Address	State# Stat
Federal Express	1600 63rd St	300147 C
Federal Express	Emeryville , CA 94608	#Tanks:2
Cont: Jim Danielson	1600 - 63rd St.	BILLING:
Phone: Fac: 547-8503	Emeryville , CA 94608	DateSent-
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TLeakDet 1267		Bill Y/N	Y

STATUS: C=Current F=awaiting appl. B=ready to Bill R=tanks Removed E=Exempt
[ESC] Done [F2] Clear field [Shift-F2] Clear to end [Shift-F10] More
Form: UGTLook Table: TInfo Field: TStatus Page: 1

Harding Lawson Associates

93 FEB [illegible] PM 2:13

STID 147

February 16, 1993

20968 001

Mr. Dan Nourse
1600 63rd Street Associates, Inc.
c/o Wareham Property Group
1120 Nye Street, Suite 400
San Rafael, California 94901

November 1992 Groundwater Monitoring Report
1600 63rd Street
Emeryville, California 94608

Dear Mr. Nourse:

This letter presents the results of the groundwater monitoring performed in November 1992 by Harding Lawson Associates (HLA) at 1600 63rd Street, Emeryville, California. HLA installed five groundwater monitoring wells at this site (Plate 1) in May and June 1989. The results of the initial groundwater sampling and analysis and an evaluation of water-level measurements along with a summary of investigations and remediation performed at the site by HLA and others were presented in HLA's October 2, 1989, report, *Groundwater Quality Investigation, 1600 63rd Street, Emeryville, California.* Details of the investigations and remedial activities conducted prior to HLA's involvement were presented in a December 1988 report prepared by Engineering Science (ES) of Berkeley, California.

In the 1989 report, HLA recommended that groundwater monitoring be continued at the site for 1 year to document the distribution of chemicals in the groundwater. The initial year of quarterly sampling was completed, and the data were presented in HLA's letter, *Fourth Quarter Groundwater Monitoring, 1600 63rd Street, Emeryville, California,* dated August 8, 1990. Because detected concentrations of total petroleum hydrocarbons increased during the fourth-quarter sampling round (March 1990) and gamma-BHC was detected, HLA recommended that groundwater monitoring and a modified analytical program be continued for another year. Four additional quarters of groundwater monitoring were performed, and the results of the fourth quarterly sampling were presented in HLA's letter, *Quarterly Groundwater Monitoring, May 1991, 1600 63rd Street, Emeryville, California,* dated November 21, 1991. This report presents the results of an additional groundwater monitoring round that was performed in November 1992.

FIELD INVESTIGATION

All water-level measurement and sampling equipment was decontaminated prior to use in each well. The sampling equipment had been washed with hot pressurized water at HLA's Novato office and wrapped in clean plastic before being transported to the site. The water-level measurement equipment was decontaminated at the site by washing with a low-phosphate soap solution and rinsing three times with deionized water. The rinsate was contained in a 55-gallon steel drum that is stored in a secured steel containment structure onsite.

On November 19, 1992, an electronic oil-water interface probe was used to measure the depth to water and the thickness of any floating product in each of the five monitoring wells. The groundwater in each well was also visually inspected for the presence of floating petroleum hydrocarbons by carefully lowering a clear Lucite bailer into the well, removing it, and observing the water/product interface, if present.

After measuring the depth to water in all five wells, the wells were purged using a PVC bailer. Conductivity, pH, turbidity, and temperature were measured during well purging. The wells were purged of approximately three well casing volumes prior to sampling. All purged water was stored in labeled 55-gallon steel drums in a secured steel containment structure onsite.

Immediately following the purging of each well, one groundwater sample was collected using a clean stainless steel bailer and decanted into laboratory-prepared sample bottles. A duplicate was collected from Well MW-2. The samples were labeled, placed in a refrigerated environment, and transported under chain of custody to the analytical laboratory.

GROUNDWATER FLOW DIRECTION

The groundwater elevations and product thicknesses measured from August 1989 to November 1992 are presented in Table 1. Compared to the previous sampling round conducted in May 1991, water-level elevation changes ranged from a 0.43-foot decrease in Well MW-1 to a 0.32-foot increase in Well MW-2. The water-level elevations measured in November are shown on Plate 1. The general groundwater flow direction is toward the west.

In Well MW-2, a product thickness of 0.03 foot was measured with the oil-interface probe. Black floating product was observed in the Lucite bailer at a similar thickness. No product was observed in the other four wells.

LABORATORY ANALYSIS AND RESULTS

The groundwater samples and duplicate were analyzed by Superior Precision Analytical, Inc., of San Francisco, California, for petroleum hydrocarbons and purgeable aromatic compounds and by Clayton Environmental of Pleasanton, California for organochlorine pesticides and polycyclic aromatic hydrocarbons (PAHs). Both are state-certified laboratories for the analyses performed. The samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline, diesel, kerosene, and motor oil using modified EPA Test Method 8015, for organochlorine pesticides using EPA Test Method 8080, and for purgeable aromatics using EPA Test Method 8020. The groundwater sample and duplicate from Well MW-2 were also analyzed for PAHs using EPA Test Method 8310. Copies of the laboratory report and chain of custody form for this sampling round are attached.

The results for compounds detected during this and previous quarterly sampling rounds are summarized in Table 2. The analyzed compounds were detected only in the samples from Wells MW-2 and MW-3. The groundwater sample and duplicate from Well MW-2 contained TPH as diesel at 11 and 22 parts per million (ppm), TPH as gasoline at 0.72 and 0.59 ppm, TPH as motor oil at 0.29 and 0.56 ppm, and TPH as kerosene at 14 and 27 ppm, respectively. Toluene, total xylenes, fluorene, and phenanthrene were detected at concentrations of 0.0019, 0.0037, 0.030, and 0.040 ppm in the groundwater sample from Well MW-2 and 0.0014, 0.0015, 0.030, and 0.050 ppm in the duplicate, respectively. Organochlorine pesticides were only detected in the groundwater sample from Well MW-3; 4,4'-DDD was detected at a concentration of 0.00003 ppm. TPH, purgeable aromatics, and organochlorine pesticides were not detected in the other groundwater samples from the November 1992 sampling round.

DISCUSSION

TPH as gasoline and diesel has been detected on a consistent basis in groundwater samples from Well MW-2 since late 1989. Other hydrocarbon-related constituents (e.g., toluene, total xylenes, fluorene, and phenanthrene) have also been detected in groundwater samples from Well MW-2. Low concentrations of TPH as gasoline and diesel have previously been detected in groundwater samples from Wells MW-1, MW-3 and MW-4, but they were not detected during this sampling round. TPH has never been detected in groundwater samples from Well MW-5. Organochloride pesticides (including endrin aldehyde, heptachlor, and 4,4'-DDD) and PCB-1260 have been sporadically detected in groundwater samples at low concentrations from Wells MW-1, MW-2, and MW-3; however, none of these constituents have been detected consistently, nor have they been detected for more than 2 years except for a low concentration of 0.00003 ppm 4,4'-DDD in the sample from Well MW-3.

If you have any questions, please call.

Very truly yours,

HARDING LAWSON ASSOCIATES

Richard F. McCartney, R.G. 5140
Project Geologist

Lisa S. Teague
Principal Geologist

Attachments: Table 1 - Groundwater Elevations
Table 2 - Chemical Concentrations in Groundwater
Plate 1 - Site Map
Laboratory Report and Chain of Custody Form

cc: Dennis Byrne, Alameda County Department of Environmental Health
Steven Ritchie, California Regional Water Quality Control Board,
San Francisco Bay Region

RFM/LST/kke/K27184-H

Table 1. Groundwater Elevations
November 1992 Groundwater Monitoring Report
1600 63rd Street, Emeryville

Well Number	Top of Casing Elevation (Feet Above MSL)	Date Measured	Depth To Product From Top of Casing (Feet)	Depth To Water From Top of Casing (Feet)	Product Thickness (Feet)	Product Level Elevation (Feet)	Water-Level Elevation, Corrected for Product (Feet)	Change In Water-Level Elevation (Feet)
MW-1	15.12	03-Aug-90	No Product	5.99	0.00	No Product	9.13	--
		21-Sep-89	No Product	5.81	0.00	No Product	9.31	0.18
		20-Oct-89	No Product	6.24	0.00	No Product	8.88	-0.43
		20-Dec-89	No Product	6.09	0.00	No Product	9.03	0.15
		20-Mar-90	No Product	5.87	0.00	No Product	9.25	0.22
		20-Jul-90	No Product	5.75	0.00	No Product	9.37	0.12
		12-Nov-90	No Product	6.04	0.00	No Product	9.08	-0.29
		07-Feb-91	No Product	6.65	0.00	No Product	8.47	-0.61
		08-May-91	No Product	6.17	0.00	No Product	8.95	0.48
		19-Nov-92	No Product	6.60	0.00	No Product	8.52	-0.43
MW-2	14.43	03-Aug-89	No Product	6.66	0.00	No Product	7.77	--
		21-Sep-89	No Product	6.32	0.00	No Product	8.11	0.34
		20-Oct-89	No Product	6.78	0.00	No Product	7.65	-0.46
		20-Dec-89	No Product	7.32	0.00	No Product	7.11	-0.54
		20-Mar-90	No Product	6.76	0.00	No Product	7.67	0.56
		11-May-90	6.65	6.66	0.01	7.78	7.78	0.11
		20-Jul-90	6.72	6.74	0.02	7.69	7.70	-0.07
		12-Nov-90	Not Measured	6.75	--	Product	7.70	0.00
		21-Nov-90	6.97	7.00	0.03	7.46	7.45	-0.25
		07-Feb-91	6.86	6.88	0.02	7.57	7.56	0.11
		08-May-91	Not Measurable	6.92	*	Product	7.51	-0.05
		19-Nov-92	7.23	7.26	0.03	Product	7.19	0.32
MW-3	15.90	03-Aug-89	No Product	4.06	0.00	No Product	11.84	--
		21-Sep-89	No Product	3.77	0.00	No Product	12.13	0.29
		20-Oct-89	No Product	4.49	0.00	No Product	11.41	-0.72
		20-Dec-89	No Product	4.32	0.00	No Product	11.58	0.17
		20-Mar-90	No Product	3.78	0.00	No Product	12.12	0.54
		20-Jul-90	No Product	3.73	0.00	No Product	12.17	0.05
		12-Nov-90	No Product	3.89	0.00	No Product	12.01	-0.16
		07-Feb-91	No Product	3.92	0.00	No Product	11.98	-0.03
		08-May-91	No Product	3.96	0.00	No Product	11.94	-0.04
		19-Nov-92	No Product	4.15	0.00	No Product	11.75	-0.19
MW-4	14.04	03-Aug-89	No Product	7.10	0.00	No Product	6.94	--
		21-Sep-89	No Product	6.90	0.00	No Product	7.14	0.20
		20-Oct-89	No Product	6.95	0.00	No Product	7.09	-0.05
		20-Dec-89	No Product	7.24	0.00	No Product	6.80	-0.29
		20-Mar-90	No Product	6.94	0.00	No Product	7.10	0.30
		20-Jul-90	No Product	6.94	0.00	No Product	7.10	0.00
		12-Nov-90	No Product	7.13	0.00	No Product	6.91	-0.19
		07-Feb-91	No Product	6.94	0.00	No Product	7.10	0.19
		08-May-91	No Product	7.15	0.00	No Product	6.89	-0.21
		19-Nov-92	No Product	7.45	0.00	No Product	6.59	-0.30
MW-5	15.21	03-Aug-89	No Product	4.35	0.00	No Product	10.86	--
		21-Sep-89	No Product	4.38	0.00	No Product	10.83	-0.03
		20-Oct-89	No Product	4.37	0.00	No Product	10.84	0.01
		20-Dec-89	No Product	4.48	0.00	No Product	10.73	-0.11
		20-Mar-90	No Product	4.07	0.00	No Product	11.14	0.41
		20-Jul-90	No Product	4.12	0.00	No Product	11.09	-0.05
		12-Nov-90	No Product	4.36	0.00	No Product	10.85	-0.24
		07-Feb-91	No Product	4.44	0.00	No Product	10.77	-0.08
		08-May-91	No Product	3.90	0.00	No Product	11.31	0.54
		19-Nov-92	No Product	4.31	0.00	No Product	10.90	-0.41

MSL = Mean Sea Level.
~ = Because product thickness was not measured, an estimate was made to account for the effect of product on the water level.
* Product not measured using oil-interface probe; however, globules of product (0.01 to 0.02 foot in diameter) were observed using a clear Lucite bailer.

Table 2. Chemical Concentrations in Groundwater
November 1992 Groundwater Monitoring Report
1600 63rd Street, Emeryville

Well Number	Date Sampled	Benzene EPA 8240 or 602	Toluene EPA 8240 or 602	Ethyl-benzene EPA 8240 or 602	Xylenes EPA 8240 or 602/8020	TPH as gasoline EPA 8015/ 3510-5030	TPH as diesel EPA 8015/ 3510	TPH as motor oil EPA 8015/ 3510	TPH as kerosene EPA 8015/ 3510	Endrin Aldehyde EPA 8080/ 608
MW-1	18-Jun-89	<0.001	<0.001	<0.001	<0.001	<0.5	<0.5	NT	<0.5	NT
	21-Sep-89	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	NT	<0.5	0.0001
	20-Dec-89	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	NT	<0.5	<0.00005
	20-Mar-90	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	NT	<0.5	<0.00005
	20-Jul-90	<0.005	<0.0005	<0.0005	<0.005	<0.05	0.17	<0.5	<0.05	<0.00025
	12-Nov-90	<0.005	<0.0005	<0.0005	<0.005	<0.05	0.16	<0.5	NT	<0.00005
	07-Feb-91	<0.005	<0.0005	<0.0005	<0.005	<0.05	0.20	<0.5	NT	<0.00005
	08-May-91	<0.005	<0.0005	<0.0005	<0.005	<0.05	0.7	<0.5	<0.005	<0.00005
	19-Nov-92	<0.0003	<0.0003	<0.0003	<0.0003	<0.05	<0.05	<1.0	<0.05	<0.00001
MW-2	25-Jun-89	<0.005	<0.005	<0.005	<0.005	0.3	<0.5	NT	<0.5	NT
	21-Sep-89	<0.005	<0.005	<0.005	<0.005	<0.5	1.0	NT	<0.5	<0.00005
	20-Dec-89	<0.005	<0.005	<0.005	<0.005	0.53	<0.5	NT	2.2	<0.00005
	20-Mar-90	<0.005	<0.005	<0.005	<0.005	0.42	49	NT	<1.0	<0.00005
	11-May-90	<0.005	<0.005	<0.005	<0.005	1.2	8.4	NT	<0.5	NT
	11-May-90 D*	<0.01	<0.01	<0.01	<0.01	<0.05	<2.5	NT	<2.5	NT
	20-Jul-90	<0.005	<0.005	<0.005	0.011	3.9	27	<0.5	<1.0	<0.0001
	20-Jul-90 D	<0.005	<0.0025	<0.0025	0.0033	2.3	30	<0.5	<1.0	<0.0001
	12-Nov-90	<0.005	<0.0005	<0.0005	<0.0005	380	61	<0.5	NT	<0.00005
	12-Nov-90 D	<0.005	0.0009	0.001	0.0079	7	35	21	NT	<0.00005
	07-Feb-91	<0.005	<0.0005	<0.0005	<0.0005	11	41	31	NT	<0.00005
	07-Feb-91 D	<0.005	<0.0005	<0.0005	0.043	13	27	21	NT	<0.00005
	08-May-91	<0.005	<0.0005	<0.0005	<0.005	88	43	30	<0.05	<0.00005
	08-May-91 D	<0.005	<0.0005	<0.0005	<0.005	150	26	18	<0.05	<0.00005
	19-Nov-92	<0.0003	0.0019	<0.0003	0.0037	0.72	11	29	14	<0.0001
	19-Nov-92 D	<0.0003	0.0014	<0.0003	0.0015	0.59	22	56	27	<0.0001
MW-3	18-Jun-89	<0.001	<0.001	<0.001	<0.001	<0.5	<0.5	NT	<0.5	NT
	21-Sep-89	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	NT	<0.5	<0.00005
	20-Dec-89	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	NT	<0.5	<0.00005
	20-Mar-90	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	NT	<0.5	<0.00005
	20-Jul-90	<0.005	<0.0005	<0.0005	<0.005	0.11	<0.05	<0.5	<0.05	<0.00005
	12-Nov-90	<0.005	<0.0005	<0.0005	<0.005	<0.05	<0.05	<0.5	NT	<0.00005
	07-Feb-91	<0.005	<0.0005	<0.0005	<0.005	<0.05	0.12	<0.5	NT	<0.00005
	08-May-91	<0.005	<0.0005	<0.0005	<0.005	<0.05	<0.05	<0.5	<0.05	<0.00005
	19-Nov-92	<0.0003	<0.0003	<0.0003	<0.0003	<0.05	<0.05	<1.0	<0.05	<0.00001
MW-4	25-Jun-89	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	NT	<0.5	NT
	21-Sep-89	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	NT	<0.5	<0.00005
	20-Dec-89	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	NT	<0.5	<0.00005
	20-Dec-89 D	<0.005	<0.005	<0.005	<0.005	NT	NT	NT	NT	NT
	20-Mar-90	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	NT	<0.5	<0.00005
	20-Jul-90	<0.005	<0.0005	<0.0005	<0.005	0.12	<0.05	<0.5	<0.05	<0.00005
	12-Nov-90	<0.005	<0.0005	<0.0005	<0.005	<0.05	<0.05	<0.5	NT	<0.00005
	07-Feb-91	<0.005	<0.0005	<0.0005	<0.005	<0.05	<0.05	<0.5	NT	<0.00005
	08-May-91	<0.005	<0.0005	<0.0005	<0.005	<0.05	<0.05	<0.5	<0.05	<0.00005
	19-Nov-92	<0.0003	<0.0003	<0.0003	<0.0003	<0.05	<0.05	<1.0	<0.05	<0.00001
MW-5	30-Jun-89	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	NT	<0.5	NT
	21-Sep-89	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	NT	<0.5	<0.00015
	20-Dec-89	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	NT	<0.5	<0.00005
	20-Mar-90	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	NT	<0.5	<0.00005
	20-Jul-90	<0.005	<0.0005	<0.0005	<0.005	<0.05	<0.05	<0.5	<0.05	<0.00005
	12-Nov-90	<0.005	<0.0005	<0.0005	<0.005	<0.05	<0.05	<0.5	NT	<0.00005
	07-Feb-91	<0.005	<0.0005	<0.0005	<0.005	<0.05	<0.05	<0.5	NT	<0.00005
	08-May-91	<0.005	<0.0005	<0.0005	<0.005	<0.05	<0.05	<0.5	<0.05	<0.00005
	19-Nov-92	<0.0003	<0.0003	<0.0003	<0.0003	<0.05	<0.05	<1.0	<0.05	<0.00001
Blank Samples										
FB	30-Jun-89	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	NT	<0.5	NT
FB	21-Sep-89	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	NT	<0.5	<0.00005
TB	20-Mar-90	<0.005	<0.005	<0.005	<0.005	NT	NT	NT	NT	NT
TB	20-Jul-90	<0.005	<0.0006	<0.0005	<0.005	<0.05	NT	NT	NT	NT
TB	12-Nov-90	<0.005	<0.0005	<0.0005	<0.005	<0.05	<0.05	<0.5	NT	<0.00005
TB	07-Feb-91	<0.005	<0.0005	<0.0005	<0.005	<0.05	<0.05	<0.5	NT	<0.00005
TB	08-May-91	<0.005	<0.0005	<0.0005	<0.005	<0.05	<0.05	<0.5	<0.05	<0.00005

Table 2. Chemical Concentrations in Groundwater
November 1992 Groundwater Monitoring Report
1600 63rd Street, Emeryville

Well Number	Date Sampled	Heptachlor EPA 8080 or 608	4,4'-DDD EPA 8080 or 608	Gamma-BHC EPA 8080 or 608	Fluorene EPA 8270 /8310	Bis (2-ethylhexyl) phthalate EPA 8270	2-Methyl naphthalene EPA 8270	Phen-anthrene EPA 8270/ 8310	Acetone EPA 8240	PCB Aroclor 1260 EPA 8080/ 608
MW-1	18-Jun-89	NT	NT	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	NT
	21-Sep-89	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.0005
	20-Dec-89	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.0005
	20-Mar-90	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.0005
	20-Jul-90	<0.00025	<0.00025	<0.00010	NT	NT	NT	NT	NT	NT
	12-Nov-90	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.00005
	07-Feb-91	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.00005
	08-May-91	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	19-Nov-92	<0.00001	<0.00001	<0.00001	NT	NT	NT	NT	NT	<0.0005
MW-2	25-Jun-89	<0.00005	NT	<0.00005	trace	<0.005	<0.005	<0.005	<0.01	<0.0005
	21-Sep-89	<0.00016	0.00015	<0.00005	0.006	0.005	0.0061	<0.005	<0.01	<0.0005
	20-Dec-89	<0.00005	<0.00005	<0.00005	<0.005	<0.005	0.012	<0.005	<0.01	<0.0005
	20-Mar-90	<0.00005	<0.00005	0.00035	0.0061	<0.005	0.018	0.0055	0.044	<0.0005
	11-May-90	NT	NT	NT	NT	NT	NT	NT	<0.01	NT
	11-May-90 D	NT	NT	NT	NT	NT	NT	NT	<0.02	NT
	20-Jul-90	<0.00010	<0.00010	<0.00004	NT	NT	NT	NT	NT	NT
	20-Jul-90 D	<0.00010	<0.00010	<0.00004	NT	NT	NT	NT	NT	<0.0005
	12-Nov-90	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	12-Nov-90 D	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	07-Feb-91	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	07-Feb-91 D	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	08-May-91	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	08-May-91 D	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	19-Nov-92	<0.0001	<0.0001	<0.0001	0.030	NT	NT	0.040	--	<0.005
	19-Nov-92 D	<0.0001	<0.0001	<0.0001	0.030	NT	NT	0.050	--	<0.005
MW-3	18-Jun-89	NT	NT	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	NT
	21-Sep-89	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.0005
	20-Dec-89	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.0005
	20-Mar-90	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.0005
	20-Jul-90	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	NT
	12-Nov-90	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	07-Feb-91	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	08-May-91	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	19-Nov-92	<0.00001	0.00003	<0.00001	NT	NT	NT	NT	NT	<0.0005
MW-4	25-Jun-89	<0.00005	NT	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.0005
	21-Sep-89	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.0005
	20-Dec-89	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.0005
	20-Dec-89 D	NT	NT	NT	NT	NT	NT	NT	<0.01	NT
	20-Mar-90	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.0005
	20-Jul-90	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	NT
	12-Nov-90	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	07-Feb-91	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	08-May-91	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	19-Nov-92	<0.00001	<0.00001	<0.00001	NT	NT	NT	NT	NT	<0.0005
MW-5	30-Jun-89	NT	NT	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	NT
	21-Sep-89	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	0.00090
	20-Dec-89	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.0005
	20-Mar-90	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.0005
	20-Jul-90	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	NT
	12-Nov-90	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	07-Feb-91	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	08-May-91	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	19-Nov-92	<0.00001	<0.00001	<0.00001	NT	NT	NT	NT	NT	<0.0005
Blank Samples										
FB	30-Jun-89	NT	NT	NT	<0.005	<0.005	<0.005	<0.005	<0.01	NT
FB	21-Sep-89	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.00050
TB	20-Mar-90	NT	NT	NT	NT	NT	NT	NT	<0.01	NT
TB	20-Jul-90	NT	NT	NT	NT	NT	NT	NT	NT	NT
TB	12-Nov-90	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
TB	07-Feb-91	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
TB	08-May-91	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005

Concentrations expressed as milligrams per liter (mg/l), which is essentially equivalent to parts per million (ppm). The less than symbol indicates a result below the reporting limit.
Where they are analyzed, unlisted EPA Test Method 602, 8015, 8080, 8240, 8270, and 8310 parameters were not detected.

* Sample contained 15 ppm of unknown hydrocarbons in about the C-7 to C-23 range and eight tentatively identified organic compounds.
NT = Not tested.
FB = Field blank.
D = Duplicate samples.
TB = Trip blank.

64TH STREET

OVERLAND AVENUE

MW-2
7.19

MW-4
6.59

FOOTPRINT OF
FEDERAL EXPRESS BUILDING

MW-3
11.75

MW-1
8.52

MW-5
10.90

EXISTING
FIRE STATION

APPROXIMATE
GROUNDWATER
FLOW DIRECTION

63RD STREET

EXPLANATION

MW-1 HLA Monitoring Well

8.52 Groundwater elevation measured on November 19, 1992, in feet above mean sea level

0 50 100

APPROXIMATE SCALE
IN FEET

N

Harding Lawson Associates
Engineering and
Environmental Services

DRAWN CVDc

JOB NUMBER 20960

APPROVED

DATE 1/93

REVISED DATE

Site Map
1600 63rd Street
Emeryville, California

PLATE 1

0107bm

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

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

August 28, 1992

STID# 147

Dan Nourse
Wareham Property Group
1120 Nye St., #400
San Rafael, CA 94901

Re: 1600 - 63rd St., Emeryville, CA 94608

Dear Dan Nourse:

This office has received and reviewed the November 21, 1991 Harding Lawson Associates (HLA) quarterly monitoring report documenting the results of activities occurring at the site during May 1991. Several other reports dating back to April 1988 were also reviewed. The following are comments concerning this site:

1. The cited HLA report provides a site map showing the locations of monitoring wells, but did **not** show where the underground storage tanks (UST) were located. Apparently, six (6) USTs were, or **are**, located at the site.

2. Free and high concentrations of dissolved fuel product was discovered in well MW-2 during the May 1991 sampling event. This is not the first time since the site investigation began that free and dissolved phase product was discovered in this well. Well MW-1 also exhibited elevated concentrations (700 ppb TPH-D) of dissolved product. To our knowledge, May 1991 was the last time these and other wells were sampled.

3. It appears that more than a year has passed since the wells were last sampled, even though the consultant proposed monitoring semi-annually, a proposal that, incidently, **was never approved.**

4. Well MW-4 is more than 200 feet downgradient from the nearest tank site. However, as both well MW-2 and MW-4 are the most downgradient wells, they must both be sampled to continually verify the boundaries of the product plume and confirm site gradient.

5. An Engineering Science Plot Map showed the existence of a "MW-1" adjacent to and downgradient from UST-2 and -3. What has happened to this well?

7. Well MW-3 exhibited 120 ppb TPH-D during the February 1991 sampling event. **Several** quarters of nondetectable or low concentrations of target compounds are required before sampling frequencies will be considered for reduction.

8. **Any** proposal to conduct sampling of only MW-1 and -2 is unacceptable, particularly on a semiannual basis. Well MW-2 still exhibits free product. The extent of the plume downgradient of MW-2 has not been defined.

   Quarterly monitoring **must** be reinstated **immediately** in all wells, with the exception of MW-3, which is the only well to be sampled on a semiannual basis. Target compounds are TPH-D/-G, BTEX, TOG (5520 series), and semivolatile hydrocarbons (method 8270). Well MW-3 may be tested for TPH-D/-G, BTEX, and TOG.

9. Currently, no monitoring well is located downgradient of UST-1, the location of the highest documented soil contamination. Further investigation needs to be done to delineate the vertical and lateral extent of soil and water contamination in the area of this tank.

At this time, you are directed to submit a work plan which addresses the requirement to assess the extent of soil and ground water contamination in the area of UST-1. The scope of this work plan should include the installation of an adequate number of wells to fully assess the limits of the free and dissolved product plume in this quadrant (NW) of the site. The need for off-site wells to accomplish this task is to be explored. This work plan is due within 45 days of the date of this letter, **or by the close of business on October 13, 1992.**

Further, sampling schedules shall follow those outlined in item 8, above. Reports are to be submitted **quarterly** until notified otherwise. Be advised that you presently in violation of Section 2652(d) of Title 23, California Code of Regulations (CCR), for failure to submit such reports since November 1991.

Please be further advised that this letter constitutes a formal request for technical reports pursuant to California Water Code Section 13267(b). Failure to respond or a late response will result in this case be referred to the RWQCB for possible enforcement action.

Attached please find a summary listing the information required by the RWQCB in order to consider a case for closure. The investigation needs to closely adhere to this format so that once your case is eligible for closure consideration, the need for additional work may not present itself.

If you have any questions concerning this matter please contact this office.

Sincerely,

Thomas F. Peacock, Supervising HMS
Hazardous Material Division

enclosure

cc: Rich Hiett, RWQCB
Mark Thomson, Alameda County District Attorney's Office
Richard Robbins, 1600-63rd St. Assoc., 1120 Nye St.#400, San Rafael, CA 94901

Files

DATE: 2/25/92

TO : **Local Oversight Program**

FROM: Jerr

SUBJ: **Transfer of Elligible Oversight Case**

Site name: PATTERSON MFG.

Address: 1600 63rd St. City Emeryville Zip 94608

Closure plan attached? Y N DepRef remaining $ ~~[illegible]~~ 417.40

DepRef Project # 116 STID #(if any) ~~#6~~ 147

Number of Tanks: 4 USTs removed? (Y) N Date of removal _____

Leak Report filed? Y N Date of Discovery 2/1/88

Samples received? Y N Contamination: Yes

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

Monitoring wells on site 5 Monitoring schedule? (Y) N

Briefly describe the following:

Preliminary Assessment _____

Remedial Action Contaminated Soil excavated, Aeration, disposal of H2O from pump.

Post Remedial Action Monitoring _____

Enforcement Action _____

Comments: Seven ASTs were on the property. FIVE OUTSIDE Sumps were located on the Site. Initially High levels of TPH - 43,000 PPM was found at 440 PPM was found in Sump B. The ASTs DID NOT Contain the waste. This Site has Heavy metals (Cd, Be, Zn, Ni,) PESTICIDE Contamination. AND PCBs. (ORGANOCHLORINES)

The [illegible] Report Received was DATE 4/23/91. They need to be Contacted AND A current Qtly Report Should be Submitted.

Table 1. Groundwater Elevations
1600 63rd Street, Emeryville

WELL NUMBER	TOP OF CASING ELEVATION (FEET) Above MSL)	DATE MEASURED	DEPTH TO PRODUCT FROM TOP OF CASING (FEET)	DEPTH TO WATER FROM TOP OF CASING (FEET)	PRODUCT THICKNESS (FEET)	PRODUCT LEVEL ELEVATION (FEET)	WATER-LEVEL ELEVATION, CORR. FOR PRODUCT (FEET)	CHANGE IN WATER-LEVEL ELEVATION * (FEET)
MW-1	15.12	03-Aug-89	NO PRODUCT	5.99	0.00	NO PRODUCT	9.13	
		21-Sep-89	NO PRODUCT	5.81	0.00	NO PRODUCT	9.31	0.18
		20-Oct-89	NO PRODUCT	6.24	0.00	NO PRODUCT	8.88	-0.43
		20-Dec-89	NO PRODUCT	6.09	0.00	NO PRODUCT	9.03	0.15
		20-Mar-90	NO PRODUCT	5.87	0.00	NO PRODUCT	9.25	0.22
		20-Jul-90	NO PRODUCT	5.75	0.00	NO PRODUCT	9.37	0.12
		12-Nov-90	NO PRODUCT	6.04	0.00	NO PRODUCT	9.08	-0.29
		07-Feb-91	NO PRODUCT	6.65	0.00	NO PRODUCT	8.47	-0.61
		08-May-91	NO PRODUCT	6.17	0.00	NO PRODUCT	8.95	0.48
MW-2	14.43	03-Aug-89	NO PRODUCT	6.66	0.00	NO PRODUCT	7.77	
		21-Sep-89	NO PRODUCT	6.32	0.00	NO PRODUCT	8.11	0.34
		20-Oct-89	NO PRODUCT	6.78	0.00	NO PRODUCT	7.65	-0.46
		20-Dec-89	NO PRODUCT	7.32	0.00	NO PRODUCT	7.11	-0.54
		20-Mar-90	NO PRODUCT	6.76	0.00	NO PRODUCT	7.67	0.56
		11-May-90	6.65	6.66	0.01	7.78	7.78	0.11
		20-Jul-90	6.72	6.74	0.02	7.69	7.70	-0.07
		12-Nov-90	NOT MEASURED	6.75	--	PRODUCT	~7.70	~0.00
		21-Nov-90	6.97	7.00	0.03	7.46	7.45	-0.25
		07-Feb-91	6.86	6.88	0.02	7.57	7.56	-0.25
		08-May-91	NOT MEASURABLE	6.92	**	PRODUCT	7.51	-0.05
MW-3	15.90	03-Aug-89	NO PRODUCT	4.06	0.00	NO PRODUCT	11.84	
		21-Sep-89	NO PRODUCT	3.77	0.00	NO PRODUCT	12.13	0.29
		20-Oct-89	NO PRODUCT	4.49	0.00	NO PRODUCT	11.41	-0.72
		20-Dec-89	NO PRODUCT	4.32	0.00	NO PRODUCT	11.58	0.17
		20-Mar-90	NO PRODUCT	3.78	0.00	NO PRODUCT	12.12	0.54
		20-Jul-90	NO PRODUCT	3.73	0.00	NO PRODUCT	12.17	0.05
		12-Nov-90	NO PRODUCT	3.89	0.00	NO PRODUCT	12.01	-0.16
		07-Feb-91	NO PRODUCT	3.92	0.00	NO PRODUCT	11.98	-0.03
		08-May-91	NO PRODUCT	3.96	0.00	NO PRODUCT	11.94	-0.04
MW-4	14.04	03-Aug-89	NO PRODUCT	7.10	0.00	NO PRODUCT	6.94	
		21-Sep-89	NO PRODUCT	6.90	0.00	NO PRODUCT	7.14	0.20
		20-Oct-89	NO PRODUCT	6.95	0.00	NO PRODUCT	7.09	-0.05
		20-Dec-89	NO PRODUCT	7.24	0.00	NO PRODUCT	6.80	-0.29
		20-Mar-90	NO PRODUCT	6.94	0.00	NO PRODUCT	7.10	0.30
		20-Jul-90	NO PRODUCT	6.94	0.00	NO PRODUCT	7.10	0.00
		12-Nov-90	NO PRODUCT	7.13	0.00	NO PRODUCT	6.91	-0.19
		07-Feb-91	NO PRODUCT	6.94	0.00	NO PRODUCT	7.10	0.19
		08-May-91	NO PRODUCT	7.15	0.00	NO PRODUCT	6.89	-0.21
MW-5	15.21	03-Aug-89	NO PRODUCT	4.35	0.00	NO PRODUCT	10.86	
		21-Sep-89	NO PRODUCT	4.38	0.00	NO PRODUCT	10.83	-0.03
		20-Oct-89	NO PRODUCT	4.37	0.00	NO PRODUCT	10.84	0.01
		20-Dec-89	NO PRODUCT	4.48	0.00	NO PRODUCT	10.73	-0.11
		20-Mar-90	NO PRODUCT	4.07	0.00	NO PRODUCT	11.14	0.41
		20-Jul-90	NO PRODUCT	4.12	0.00	NO PRODUCT	11.09	-0.05
		12-Nov-90	NO PRODUCT	4.36	0.00	NO PRODUCT	10.85	-0.24
		07-Feb-91	NO PRODUCT	4.44	0.00	NO PRODUCT	10.77	-0.08
		08-May-91	NO PRODUCT	3.90	0.00	NO PRODUCT	11.31	0.54

MSL - Mean Sea Level
* Change from previous measurement. Negative sign denotes decrease in water level.
~ Because product thickness was not measured, an estimate was made to account for the effect of product on the water level.
** Product not measured using oil-interface probe; however, globules of product (0.01- to 0.02-foot diameter) were observed using clear Lucite bailer.

Table 2. Selected Results of Organic Analyses of Groundwater Samples
1600 63rd Street, Emeryville

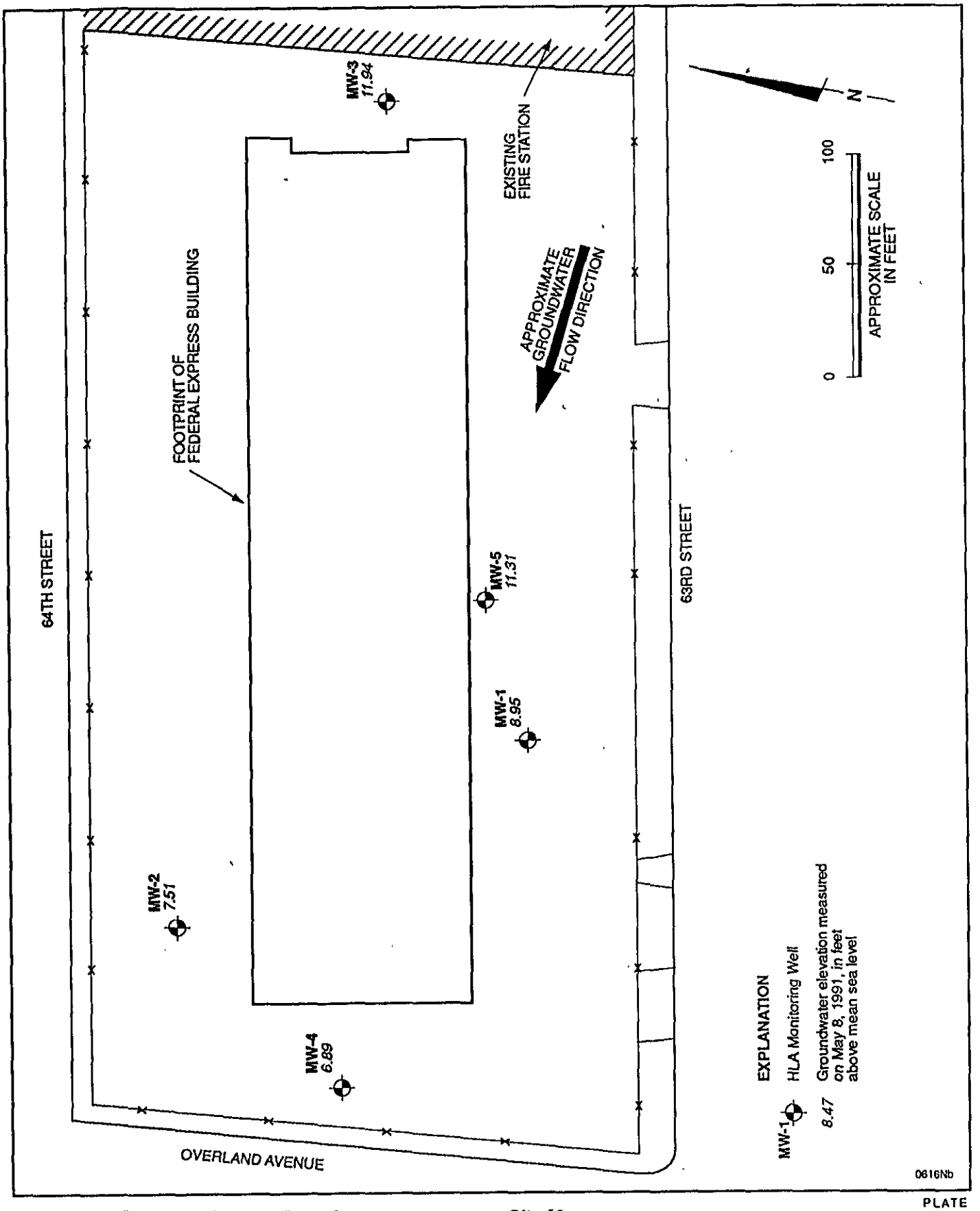
Well Number	Date Sampled	Benzene EPA 8240 or 602	Toluene EPA 8240 or 602	Ethyl-benzene EPA 8240 or 602	Xylenes EPA 8240 or 602	TPH as gasoline EPA 8015/ 3510-5030	TPH as diesel EPA 8015/ 3510	TPH as motor oil EPA 8015/ 3510	TPH as kerosene EPA 8015/ 3510	Endrin Aldehyde EPA 8080/ 608
MW-1	18-Jun-89	<0.001	<0.001	<0.001	<0.001	<0.5	<0.5	NT	<0.5	NT
	21-Sep-89	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	NT	<0.5	0.0001
	20-Dec-89	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	NT	<0.5	<0.00005
	20-Mar-90	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	NT	<0.5	<0.00005
	20-Jul-90	<0.005	<0.0005	<0.0005	<0.005	<0.05	0.17	<0.5	<0.05	<0.00025
	12-Nov-90	<0.005	<0.0005	<0.0005	<0.005	<0.05	0.16	<0.5	NT	<0.00005
	07-Feb-91	<0.005	<0.0005	<0.0005	<0.005	<0.05	0.20	<0.5	NT	<0.00005
	08-May-91	<0.005	<0.0005	<0.0005	<0.005	<0.05	0.7	<0.5	<0.05	<0.00005
MW-2	25-Jun-89	<0.005	<0.005	<0.005	<0.005	0.3	<0.5	NT	<0.5	NT
	21-Sep-89	<0.005	<0.005	<0.005	<0.005	<0.5	1.0	NT	<0.5	<0.00005
	20-Dec-89	<0.005	<0.005	<0.005	<0.005	0.53	<0.5	NT	2.2	<0.00005
	20-Mar-90	<0.005	<0.005	<0.005	<0.005	0.42	49	NT	<1.0	<0.00005
	11-May-90	<0.005	<0.005	<0.005	<0.005	1.2	8.4	NT	<0.5	NT
	11-May-90 D*	<0.01	<0.01	<0.01	<0.01	<0.05	<2.5	NT	<2.5	NT
	20-Jul-90	<0.005	<0.005	<0.005	0.011	3.9	27	<0.5	<1.0	<0.0001
	20-Jul-90 D	<0.005	<0.0025	<0.0025	0.0033	2.3	30	<0.5	<1.0	<0.0001
	12-Nov-90	<0.005	<0.0005	<0.0005	0.0005	380	61	<0.5	NT	<0.00005
	12-Nov-90 D	<0.005	0.0009	0.001	0.0079	7	35	21	NT	<0.00005
	07-Feb-91	<0.005	<0.0005	<0.0005	<0.0005	11	41	31	NT	<0.00005
	07-Feb-91 D	<0.005	<0.0005	<0.0005	0.043	13	27	21	NT	<0.00005
	08-May-91	<0.005	<0.0005	<0.0005	<0.005	88	43	30	<0.05	<0.00005
	08-May-91 D	<0.005	<0.0005	<0.0005	<0.005	150	26	18	<0.05	<0.00005
MW-3	18-Jun-89	<0.001	<0.001	<0.001	<0.001	<0.5	<0.5	NT	<0.5	NT
	21-Sep-89	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	NT	<0.5	<0.00005
	20-Dec-89	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	NT	<0.5	<0.00005
	20-Mar-90	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	NT	<0.5	<0.00005
	20-Jul-90	<0.005	<0.0005	<0.0005	<0.005	0.11	<0.05	<0.5	<0.05	<0.00005
	12-Nov-90	<0.005	<0.0005	<0.0005	<0.005	<0.05	<0.05	<0.5	NT	<0.00005
	07-Feb-91	<0.005	<0.0005	<0.0005	<0.005	<0.05	0.12	<0.5	NT	<0.00005
	08-May-91	<0.005	<0.0005	<0.0005	<0.005	<0.05	<0.05	<0.5	<0.05	<0.00005
MW-4	25-Jun-89	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	NT	<0.5	NT
	21-Sep-89	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	NT	<0.5	<0.00005
	20-Dec-89	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	NT	<0.5	<0.00005
	20-Dec-89 D	<0.005	<0.005	<0.005	<0.005	NT	NT	NT	NT	NT
	20-Mar-90	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	NT	<0.5	<0.00005
	20-Jul-90	<0.005	<0.0005	<0.0005	<0.005	0.12	<0.05	<0.5	<0.05	<0.00005
	12-Nov-90	<0.005	<0.0005	<0.0005	<0.005	<0.05	<0.05	<0.5	NT	<0.00005
	07-Feb-91	<0.005	<0.0005	<0.0005	<0.005	<0.05	<0.05	<0.5	NT	<0.00005
	08-May-91	<0.005	<0.0005	<0.0005	<0.005	<0.05	<0.05	<0.5	<0.05	<0.00005
MW-5	30-Jun-89	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	NT	<0.5	NT
	21-Sep-89	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	NT	<0.5	0.00015
	20-Dec-89	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	NT	<0.5	<0.00005
	20-Mar-90	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	NT	<0.5	<0.00005
	20-Jul-90	<0.005	<0.0005	<0.0005	<0.005	<0.05	<0.05	<0.5	<0.05	<0.00005
	12-Nov-90	<0.005	<0.0005	<0.0005	<0.005	<0.05	<0.05	<0.5	NT	<0.00005
	07-Feb-91	<0.005	<0.0005	<0.0005	<0.005	<0.05	<0.05	<0.5	NT	<0.00005
	08-May-91	<0.005	<0.0005	<0.0005	<0.005	<0.05	<0.05	<0.5	<0.05	<0.00005
Blank Samples										
FB	30-Jun-89	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	NT	<0.5	NT
FB	21-Sep-89	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	NT	<0.5	<0.00005
TB	20-Mar-90	<0.005	<0.005	<0.005	<0.005	NT	NT	NT	NT	NT
TB	20-Jul-90	<0.005	0.0006	<0.0005	<0.005	<0.05	NT	NT	NT	NT
TB	12-Nov-90	<0.005	<0.0005	<0.0005	<0.005	<0.05	<0.05	<0.5	NT	<0.00005
TB	07-Feb-91	<0.005	<0.0005	<0.0005	<0.005	<0.05	<0.05	<0.5	NT	<0.00005
TB	08-May-91	<0.005	<0.0005	<0.0005	<0.005	<0.05	<0.05	<0.5	<0.05	<0.00005

Concentrations expressed as milligrams of chemcial per liter of water (mg/l), which is essentially equivalent to parts per million (ppm). Less than symbol indicates results below listed reporting limit.
Where they were analyzed, unlisted EPA Test Method 602, 8015, 8080, 8240 and 8270 parameters were not detected.

NT = Not tested
FB = Field Blank
D = Duplicate Samples
TB = Trip Blank
* Sample contained 15 ppm of unknown hydrocarbons in about the C-7 to C-23 carbon range and 8 tentatively identified organic compounds.

Table 2. Selected Results of Organic Analyses of Groundwater Samples (Continued)
1600 63rd Street, Emeryville

Well Number	Date Sampled	Heptachlor EPA 8080/ 608	4,4'-DDD EPA 8080/ 608	Gamma-BHC EPA 8080/ 608	Fluorene EPA 8270	Bis (2-ethyl-hexyl) phthalate EPA 8270	2-Methyl-naphthalene EPA 8270	Phen-anthrene EPA 8270	Acetone EPA 8240	PCB 1260 EPA 8080/ 608
MW-1	18-Jun-89	NT	NT	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	NT
	21-Sep-89	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	0.0005
	20-Dec-89	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.0005
	20-Mar-90	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.0005
	20-Jul-90	<0.00025	<0.00025	<0.00010	NT	NT	NT	NT	NT	NT
	12-Nov-90	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	07-Feb-91	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	08-May-91	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
MW-2	25-Jun-89	<0.00005	NT	<0.00005	trace	<0.005	<0.005	<0.005	<0.01	<0.0005
	21-Sep-89	0.00016	0.00015	<0.00005	0.006	0.005	0.0061	<0.005	<0.01	<0.0005
	20-Dec-89	<0.00005	<0.00005	<0.00005	<0.005	<0.005	0.012	<0.005	<0.01	<0.0005
	20-Mar-90	<0.00005	<0.00005	0.00035	0.0061	<0.005	0.018	0.0055	0.044	<0.0005
	11-May-90	NT	NT	NT	NT	NT	NT	NT	<0.01	NT
	11-May-90 D*	NT	NT	NT	NT	NT	NT	NT	<0.02	NT
	20-Jul-90	<0.00010	<0.00010	<0.00004	NT	NT	NT	NT	NT	NT
	20-Jul-90 D	<0.00010	<0.00010	<0.00004	NT	NT	NT	NT	NT	NT
	12-Nov-90	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	12-Nov-90 D	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	07-Feb-91	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	07-Feb-91 D	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	08-May-91	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	08-May-91 D	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
MW-3	18-Jun-89	NT	NT	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	NT
	21-Sep-89	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.0005
	20-Dec-89	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.0005
	20-Mar-90	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.0005
	20-Jul-90	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	NT
	12-Nov-90	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	07-Feb-91	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	08-May-91	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
MW-4	25-Jun-89	<0.00005	NT	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.0005
	21-Sep-89	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.0005
	20-Dec-89	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.0005
	20-Dec-89 D	NT	NT	NT	NT	NT	NT	NT	<0.01	NT
	20-Mar-90	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.0005
	20-Jul-90	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	NT
	12-Nov-90	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	07-Feb-91	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	08-May-91	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
MW-5	30-Jun-89	NT	NT	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	NT
	21-Sep-89	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	0.00090
	20-Dec-89	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.0005
	20-Mar-90	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.0005
	20-Jul-90	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	NT
	12-Nov-90	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	07-Feb-91	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
	08-May-91	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
Blank Samples										
FB	30-Jun-89	NT	NT	NT	<0.005	<0.005	<0.005	<0.005	<0.01	NT
FB	21-Sep-89	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.00050
TB	20-Mar-90	NT	NT	NT	NT	NT	NT	NT	<0.01	NT
TB	20-Jul-90	NT	NT	NT	NT	NT	NT	NT	NT	NT
TB	12-Nov-90	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
TB	07-Feb-91	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005
TB	08-May-91	<0.00005	<0.00005	<0.00002	NT	NT	NT	NT	NT	<0.0005



PLATE

1

Harding Lawson Associates
Engineering and
Environmental Services

Site Map
1600 63rd Street
Emeryville, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CVDc	18[illegible]2,039.02		12/90	5/91

Harding Lawson Associates

90 AUG -9 PM 11: 34

August 8, 1990

18452,016.02

1600 63rd Street Associates, Inc.
c/o Wareham Property Group
1120 Nye Street, Suite 400
San Rafael, California 94901

Attention: Mr. Dan Nourse

Gentlemen:

Fourth Quarter Groundwater Monitoring
1600 63rd Street
Emeryville, California

This report presents the results of the fourth quarter groundwater monitoring conducted by Harding Lawson Associates (HLA) at 1600 63rd Street, Emeryville, California. HLA installed five groundwater monitoring wells at this site (Plate 1) in May and June 1989. The results of initial groundwater sampling and analyses, evaluation of water-level measurements, and a summary of investigations and remediation performed at the site by HLA and others are presented in HLA's October 2, 1989, report, *Groundwater Quality Investigation, 1600 63rd Street, Emeryville, California.* Details of the investigations and remediations conducted prior to HLA's involvement were presented in a report prepared by Engineering Science (ES), Berkeley, California, dated December 1988.

In the October 2, 1989, report, HLA recommended that groundwater monitoring continue at the site for one year to document the distribution of chemicals in the groundwater. The monitoring program comprises quarterly water-level and product thickness (if present) measurements, groundwater sampling, and chemical analyses for a suite of analytes. This report presents the results of the fourth and last sampling conducted during the first year of quarterly sampling at the site.

FIELD INVESTIGATION

Fourth quarter monitoring was conducted on March 20, 1990. Additionally, because concentrations of some of the chemicals in the groundwater sample collected from Well MW-2 on that date had increased from those detected previously, Well MW-2 was sampled on May 11, 1990. Split groundwater samples were collected from Well MW-2 to evaluate the results found during the March 1990 sampling round. The

field investigation was performed in accordance with the procedures and recommendations outlined in HLA's October 1989 report.

On March 20, 1990, an electronic oil-water interface probe was used to measure groundwater levels and product thickness, if encountered, in the monitoring wells. The groundwater surface in each well was also visually inspected for the presence of floating product by carefully lowering a clear Lucite bailer into the well, removing it, and observing the water/product in the bailer. On May 11, 1990, the presence of floating product in Well MW-2 was again evaluated by lowering a Lucite bailer into the well as previously described.

After water levels were measured, the wells were purged using a PVC bailer. Measurements of pH, conductivity, turbidity, and temperature were collected during well purging. Wells MW-1 and MW-2 were purged of approximately three well casing volumes. Well MW-1 was purged of approximately 25 gallons; Well MW-2 was purged of approximately 27 gallons on March 20, 1990, and of approximately 30 gallons on May 11, 1990. Wells MW-3, MW-4 and MW-5 were purged of approximately 19, 25 and 33 gallons of water, respectively (approximately 1.4 to 1.8 well casing volumes), at which time the wells were evacuated. Wells MW-3, MW-4, and MW-5 were allowed to recover approximately 3, 1.75 and 0.5 hours, respectively, until the water levels had risen to within 97 percent, 92 percent and 89 percent, respectively, of the initial water level. All purged water was placed in 55-gallon steel drums and stored onsite in a secured steel containment structure.

Immediately following purging, groundwater samples were collected from the wells using a clean stainless steel bailer and decanted into laboratory-prepared bottles. The sample bottles were labeled, placed in a refrigerated environment, and transported under chain of custody to the analytical laboratories.

All water-level measurement and sampling equipment was decontaminated prior to use. The water-level measurement equipment was decontaminated by washing with a low-phosphorous soap and water mixture then double rinsing with tap water. The sampling equipment had been steam cleaned at HLA and wrapped in clean plastic before being transported to the site. Sufficient equipment was provided so that decontaminating the sampling equipment at the site was not required.

GROUNDWATER GRADIENT AND FLOW DIRECTION

Groundwater elevations and product thicknesses measured throughout this investigation are presented in Table 1. The water-level elevations in the wells have risen between 0.22 and 0.56 foot since the previous monitoring on December 20, 1989. The change in water-level elevations may represent a typical seasonal fluctuation of the water table.

Review of water-level elevations measured during the March 1990 sampling round indicates that groundwater flows onto the site from the east. Groundwater flow diverges in the central area of the site and discharges from the site toward the west, northwest, and southwest. The groundwater gradient throughout the site on March 20, 1990 was 0.013. The groundwater flow direction and gradient are generally consistent with those calculated throughout this investigation.

No product was measured in the wells during sampling on March 20, 1990; however, a sheen was observed on the water surface in Well MW-2. During resampling of Well MW-2, a product thickness of about 0.01 foot was measured inside the bailer.

LABORATORY ANALYSIS AND RESULTS

The groundwater samples collected on March 20, 1990, were analyzed by Curtis & Tompkins, Ltd. (C&T), Berkeley, California, a California-certified laboratory. The samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline, kerosene, and diesel using the analytical methods described in the Regional Water Quality Control Board's *Leaking Underground Fuel Tank* (LUFT) *Field Manual*, dated October 1989; for volatile organics using Environmental Protection Agency (EPA) Test Method 8240; for organochlorine pesticides and polychlorinated biphenyls (PCBs) using EPA Test Method 8080; for base/neutral and acid extractable organics using EPA Test Method 8270; and for the priority pollutant metals using EPA Test Methods 6010, 7470, and 7841. The split groundwater samples collected from Well MW-2 on May 11, 1990, were submitted to both C&T and Enseco, Inc., of Sacramento, California. Both laboratories are California-certified for the analyses performed. The samples were analyzed for TPH as gasoline, kerosene, and diesel using the LUFT methodology and for volatile organics using EPA Test Method 8240. In addition, Enseco analyzed the samples for TPH as Stoddard solvent, aviation fuel, and unknown hydrocarbons.

Analytical results for selected analyses performed during this sampling round and the previous quarterly sampling events are summarized in Table 2; data for those analytes which have been detected are included. Copies of the laboratory reports and chain of custody forms for this sampling round are included in the attachment.

Results of Analyses for Organic Compounds

No detectable concentrations of volatile organics, TPH as gasoline, diesel, or kerosene, organochlorine pesticides or PCBs, or base/neutral and acid extractable organics were reported in the samples collected from all wells, except Well MW-2 during this sampling round. The sample collected from Well MW-2 on March 20, 1990, contained acetone at 0.044 parts per million (ppm); TPH as gasoline and diesel at 0.42 and 49 ppm, respectively; gamma-BHC (Lindane) at 0.00035 ppm; fluorene at 0.0061 ppm;

2-methylnaphthalene at 0.018 ppm; and phenanthrene at 0.0055 ppm. No other organic constituents were detected in the sample from Well MW-2.

A trip blank sample was collected and analyzed for volatile organics (EPA Test Method 8240), as a quality control check. No volatile organics were detected in this sample.

As previously mentioned, split groundwater samples were collected from Well MW-2 on May 11, 1990, to evaluate the acetone and TPH concentrations found during the fourth quarter sampling round. Acetone was not detected by either laboratory; however, several tentatively identified compounds were observed using EPA Test Method 8240. Enseco identified 8 organic compounds with estimated concentrations ranging from 0.140 to 0.270 ppm (Attachment). According to John Goyette of C&T, 12 tentatively identified compounds were observed by C & T; however, the compounds were not included in the laboratory report because the certainty of their identification was less than 80 percent.

TPH was detected by both laboratories. TPH as gasoline, kerosene, Stoddard solvent, aviation fuel, and diesel were not detected by Enseco. However, Enseco did report 15 ppm of an unknown hydrocarbon in about the C-7 to C-23 carbon range. C&T reported the petroleum hydrocarbons detected as 1.2 ppm of TPH as gasoline and 8.4 ppm of TPH in the diesel range. According to Mr. Goyette and the "case narrative" included in C&T's laboratory report, the gas chromatograph patterns for these petroleum hydrocarbons did not match the gasoline or diesel standards; the TPH reported as gasoline was in the C-5 to C-10 carbon range and the TPH reported as diesel was in the C-12 to C-26 carbon range. The TPH results reported by both laboratories are similar and may represent a mixture of petroleum hydrocarbons or weathered petroleum hydrocarbons.

Results of Analyses for Metals

Four priority pollutant metals were detected in the groundwater samples collected during the fourth quarter sampling round. Barium and zinc were detected in the samples collected from all the wells at concentrations ranging from 0.038 to 0.21 ppm. Nickel was detected in the sample collected from Well MW-1 at a concentration of 0.082 ppm and arsenic was detected in the sample from Well MW-2 at the detection limit (0.05 ppm). No other metals were detected during the fourth quarter sampling round.

DISCUSSION AND CONCLUSION

This section summarizes and discusses the results of the four quarters of groundwater monitoring conducted to date.

Organic Compounds

No organic compounds have been detected in Wells MW-3 and MW-4. Only two organic compounds have been detected in Wells MW-1 and MW-5. Endrin aldehyde and PCB 1260 were found in the groundwater samples collected from Wells MW-1 and MW-5 during the second quarter sampling round. However, these chemicals have not been detected during subsequent sampling rounds. Several organic compounds have been found in the groundwater samples from Well MW-2. TPH concentrations have increased since the third quarter sampling round. The TPH concentrations detected prior to the fourth quarter sampling round ranged from 0.3 to 2.2 ppm. Up to 49 ppm of TPH was reported during the fourth quarter. The concentration of 2-methylnaphthalene in Well MW-2 has increased slightly from not detected during the initial sampling round to 0.018 ppm in the fourth sampling round.

A concentration of 0.044 ppm of acetone was detected in the groundwater sample collected from Well MW-2 on March 20, 1990. As indicated in the 1988 ES report, acetone had been detected in groundwater samples collected from the onsite water well which is now abandoned. However, because acetone is a common laboratory contaminant and was detected only once previously, it is likely that the sample collected from Well MW-2 on March 20, 1990, was contaminated in the laboratory.

Gamma-BHC, which is an organochlorine pesticide, was found in Well MW-2 at a concentration of 0.00035 ppm during the fourth quarter sampling round. This concentration is below California Department of Health Services (DHS) drinking water action level of 0.004 ppm. Prior to the fourth quarter, gamma-BHC was not detected at a detection limit of 0.00005 ppm. The 1988 ES report indicates that gamma-BHC was not detected during the investigations performed prior to HLA's involvement.

Concentrations of fluorene, bis(2-ethylhexyl)phthalate, and phenanthrene in Well MW-2 have ranged from not detected to slightly above the laboratory's detection limits. Heptachlor and 4,4'-DDD were detected in Well MW-2 during the second quarterly sampling round; however, they were not detected during the subsequent or previous sampling rounds.

HLA's October 2, 1989 report identified several industries or facilities upgradient that have the potential to impact the groundwater at the site. According to Mr. Dennis Byrne of the Alameda County Department of Health, an underground fuel tank at the Liquid Sugar Company recently failed a precision test; however, no subsurface investigation has been performed.

Metals

In general, only barium and zinc have been consistently found in the groundwater samples from all wells. Barium concentrations have been similar throughout the sampling period and zinc concentrations have increased slightly or have generally been consistent. Nickel concentrations in the samples from Well MW-1 have decreased slightly; arsenic concentrations in the samples from Well MW-2 have been relatively consistent. Molybdenum, copper, cadmium, and thallium concentrations have ranged from not detected to slightly above the laboratory's detection limits.

Except for arsenic and cadmium, all of the metals concentrations detected are below the drinking water action levels established by the DHS or EPA. The EPA maximum contaminant levels for arsenic and cadmium are 0.050 and 0.010 ppm, respectively. Arsenic was detected once above its action level in Well MW-5 and cadmium was detected above its action level once each in Wells MW-1 and MW-3. Well MW-3 appears to be the most upgradient well; therefore, concentrations found in this well may represent background concentrations.

ADDITIONAL MONITORING

Because the TPH concentrations increased significantly in Well MW-2 during the fourth quarter sampling round and gamma-BHC was detected, groundwater monitoring will be performed quarterly for an additional year. The purpose of the additional sampling will be to monitor the chemicals found in the groundwater to evaluate whether the chemicals are migrating from the offsite area and to evaluate whether remediation of the groundwater is necessary. The groundwater samples will be analyzed for TPH as gasoline, kerosene, and diesel (using LUFT methodology); for benzene, toluene, ethylbenzene, and xylenes using EPA Test Method 602; and for organochlorine pesticides using EPA Test Method 8080. Because the priority pollutant metals and the other EPA Test Methods 8240 and 8270 compounds were either not detected, detected below established drinking water action levels, or inconsistently detected, analyses for these compounds are not believed to be necessary at this time.

Prior to sampling each well, the presence of product layer will be evaluated and, if present, measured. For quality control purposes, a field or travel blank sample and/or a duplicate sample will be collected and analyzed during each sampling round. After each sampling round, a written report presenting the results will be prepared and submitted to the regulatory agencies.

The next quarterly water-quality monitoring round was performed on July 20, 1990. A report will be prepared after the chemical data are available. If you have any questions, please call.

Yours very truly,

HARDING LAWSON ASSOCIATES

Diana M. Dickerson
Senior Geologist

Lisa S. Teague
Geologist - 3839

DMD/LST/rmc/E12405-H

cc: Dennis Byrne, Alameda County, Department of Health
Steven Ritchie, California Regional Water Quality Control Board, San Francisco Bay Region

Attachments:
Table 1 - Groundwater Elevations
Table 2 - Results of Groundwater Analyses
Plate 1 - Site Map
Laboratory Reports and Chain of Custody Form

TABLE 1. Groundwater Elevations
1600 63rd Street, Emeryville

WELL	TOP OF CASING ELEVATION (FT Above MSL)	DATE MEASURED	DEPTH TO PRODUCT FROM TOP OF CASING (FT)	DEPTH TO WATER FROM TOP OF CASING (FT)	PRODUCT THICKNESS (FT)	PRODUCT LEVEL ELEVATION (FT)	WATER LEVEL-ELEVATION, CORR. FOR PRODUCT (FT)	CHANGE IN WATER-LEVEL ELEVATION * (FT)	NOTES
MW-1	15.12	03-Aug-89	NO PRODUCT	5.99	0.00	NO PRODUCT	9.13		
	15.12	21-Sep-89	NO PRODUCT	5.81	0.00	NO PRODUCT	9.31	9.31	
	15.12	20-Oct-89	NO PRODUCT	6.24	0.00	NO PRODUCT	8.88	8.88	
	15.12	20-Dec-89	NO PRODUCT	6.09	0.00	NO PRODUCT	9.03	9.03	
	15.12	20-Mar-90	NO PRODUCT	5.87	0.00	NO PRODUCT	9.25	9.25	
MW-2	14.43	03-Aug-89	NO PRODUCT	6.66	0.00	NO PRODUCT	7.77		
	14.43	21-Sep-89	NO PRODUCT	6.32	0.00	NO PRODUCT	8.11	-1.20	
	14.43	20-Oct-89	NO PRODUCT	6.78	0.00	NO PRODUCT	7.65	-1.23	
	14.43	20-Dec-89	NO PRODUCT	7.32	0.00	NO PRODUCT	7.11	-1.92	
	14.43	20-Mar-90	NO PRODUCT	6.76	0.00	NO PRODUCT	7.67	-1.58	
	14.43	11-May-90	6.66	6.65	0.01	7.77	7.78	0.11	
MW-3	15.90	03-Aug-89	NO PRODUCT	4.06	0.00	NO PRODUCT	11.84		
	15.90	21-Sep-89	NO PRODUCT	3.77	0.00	NO PRODUCT	12.13	4.48	
	15.90	20-Oct-89	NO PRODUCT	4.49	0.00	NO PRODUCT	11.41	4.30	
	15.90	20-Dec-89	NO PRODUCT	4.32	0.00	NO PRODUCT	11.58	3.91	
	15.90	20-Mar-90	NO PRODUCT	3.78	0.00	NO PRODUCT	12.12	4.34	
MW-4	14.04	03-Aug-89	NO PRODUCT	7.10	0.00	NO PRODUCT	6.94		
	14.04	21-Sep-89	NO PRODUCT	6.90	0.00	NO PRODUCT	7.14	-4.99	
	14.04	20-Oct-89	NO PRODUCT	6.95	0.00	NO PRODUCT	7.09	-4.32	
	14.04	20-Dec-89	NO PRODUCT	7.24	0.00	NO PRODUCT	6.80	-4.78	
	14.04	20-Mar-90	NO PRODUCT	6.94	0.00	NO PRODUCT	7.10	-5.02	
MW-5	15.21	03-Aug-89	NO PRODUCT	4.35	0.00	NO PRODUCT	10.86		
	15.21	21-Sep-89	NO PRODUCT	4.38	0.00	NO PRODUCT	10.83	3.69	
	15.21	20-Oct-89	NO PRODUCT	4.37	0.00	NO PRODUCT	10.84	3.75	
	15.21	20-Dec-89	NO PRODUCT	4.48	0.00	NO PRODUCT	10.73	3.93	
	15.21	20-Mar-90	NO PRODUCT	4.07	0.00	NO PRODUCT	11.14	4.04	

* Change from previous measurement. Negative sign denotes decrease in water level.

Revision 08-Aug-90

WHWATLEV.wk1

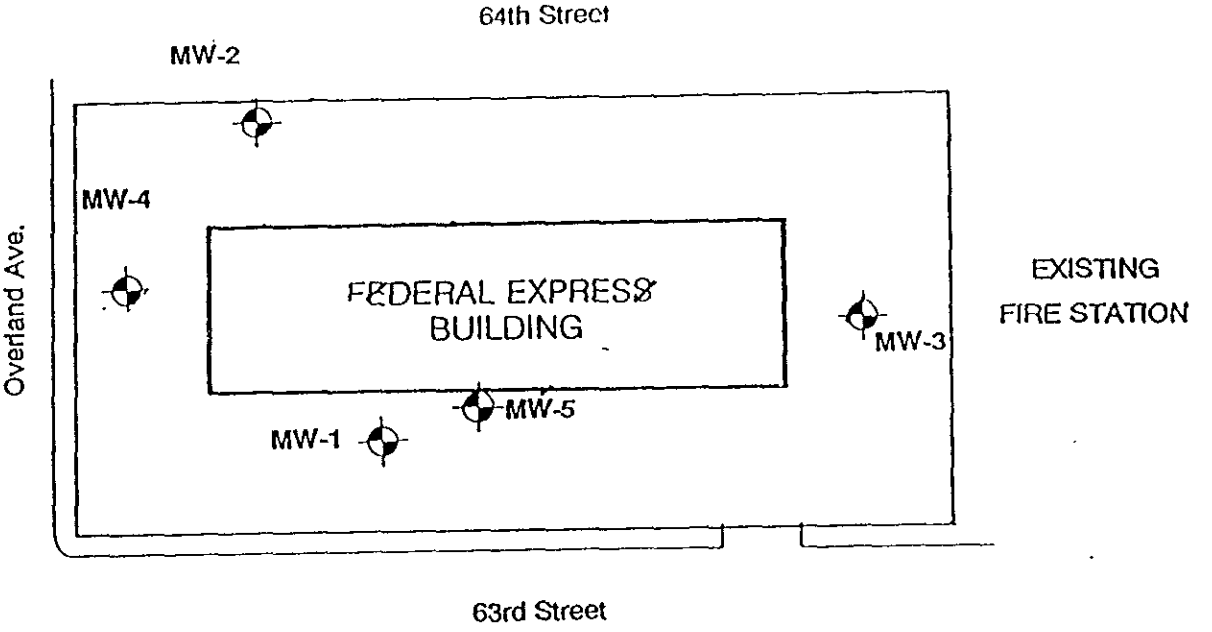
Table 2. Results of Groundwater Analyses
1600 63rd Street, Emeryville
Concentrations in mg/l (ppm)

Well	Sampling Date	Sampling Event	Acetone EPA 8240	Benzene EPA 8240	Toluene EPA 8240	Ethyl-benzene EPA 8240	Xylenes EPA 8240	TPH (gasoline) EPA 8015/ 3510-5030	TPH (diesel) EPA 8015/ 3510	TPH (kerosene) EPA 8015/ 3510	Barium EPA 6010	Copper EPA 6010	Nickel EPA 6010	Zinc EPA 6010	Molybdenum EPA 6010
MW-1	18-Jun-89	INITIAL SAMPLING	<0.01	<0.001	<0.001	<0.001	<0.001	<0.5	<0.5	<0.5	0.13	0.01	0.08	0.06	<0.01
	21-Sep-89	2ND QTR SAMPLING	<0.01	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	0.15	<0.01	0.10	0.03	<0.01
	20-Dec-89	3RD QTR SAMPLING	<0.01	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	<0.5	0.19	<0.02	0.11	<0.01	<0.01
	20-Mar-90	4TH QTR SAMPLING	<0.01	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	<0.5	0.16	<0.02	0.082	0.038	<0.01
MW-2	25-Jun-89	INITIAL SAMPLING	<0.01	<0.005	<0.005	<0.005	<0.005	0.3	<0.5	<0.5	0.12	<0.01	<0.01	0.07	<0.01
	21-Sep-89	2ND QTR SAMPLING	<0.01	<0.005	<0.005	<0.005	<0.005	<0.5	1.0	<0.5	0.16	<0.01	<0.01	0.05	0.02
	20-Dec-89	3RD QTR SAMPLING	<0.01	<0.005	<0.005	<0.005	<0.005	0.53	<0.5	2.2	0.17	<0.02	<0.01	0.01	0.01
	20-Mar-90	4TH QTR SAMPLING	0.044	<0.005	<0.005	<0.005	<0.005	0.42	49	<1.0	0.21	<0.02	<0.01	0.081	<0.01
	11-May-90	RESAMPLING(C&T)	<0.01	<0.005	<0.005	<0.005	<0.005	1.2	8.4	<0.5	NT	NT	NT	NT	NT
	11-May-90	RESAMPLING(Enseco) *	<0.02	<0.01	<0.01	<0.01	<0.01	<0.05	<2.5	<2.5	NT	NT	NT	NT	NT
MW-3	18-Jun-89	INITIAL SAMPLING	<0.01	<0.001	<0.001	<0.001	<0.001	<0.5	<0.5	<0.5	0.06	0.01	<0.01	0.07	<0.01
	21-Sep-89	2ND QTR SAMPLING	<0.01	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	0.06	<0.01	<0.01	0.05	<0.01
	20-Dec-89	3RD QTR SAMPLING	<0.01	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	<0.5	0.06	<0.02	<0.01	<0.01	<0.01
	20-Mar-90	4TH QTR SAMPLING	<0.01	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	<0.5	0.053	<0.02	<0.01	0.18	<0.01
MW-4	25-Jun-89	INITIAL SAMPLING	<0.01	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	<0.5	0.17	0.02	<0.01	0.10	<0.01
	21-Sep-89	2ND QTR SAMPLING	<0.01	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	0.19	0.01	0.01	0.04	<0.01
	20-Dec-89	3RD QTR SAMPLING	<0.01	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	<0.5	0.20	<0.02	<0.01	<0.01	<0.01
	20-Mar-90	4TH QTR SAMPLING	<0.01	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	<0.5	0.18	<0.02	<0.01	0.20	<0.01
MW-5	30-Jun-89	INITIAL SAMPLING	<0.01	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	<0.5	NT	<0.01	<0.01	0.09	NT
	21-Sep-89	2ND QTR SAMPLING	<0.01	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	0.15	<0.01	<0.01	0.05	<0.01
	20-Dec-89	3RD QTR SAMPLING	<0.01	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	<0.5	0.21	<0.02	<0.01	0.02	<0.01
	20-Mar-90	4TH QTR SAMPLING	<0.01	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	<0.5	0.20	<0.02	<0.01	0.077	<0.01
MW-4DUP	30-Jun-89	INITIAL SAMPLING	<0.01	<0.005	<0.005	<0.005	<0.005	<0.05	<0.5	<0.5	NT	<0.01	<0.01	<0.01	NT
	21-Sep-89	2ND QTR SAMPLING	<0.01	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.01	<0.01	<0.01	<0.01	<0.01
	20-Dec-89	3RD QTR SAMPLING	<0.01	<0.005	<0.005	<0.005	<0.005	NT	NT	NT	NT	NT	NT	NT	NT
TB	20-Mar-90	4TH QTR SAMPLING	<0.01	<0.005	<0.005	<0.005	<0.005	NT	NT	NT	NT	NT	NT	NT	NT

NOTES:
All unlisted 8080, 8240 and 8270 analytes not detected.
All unlisted Priority Pollutant metals analytes not detected.
NT = Not tested
FB = Field Blank
DUP= Duplicate
TB = Trip Blank
* Sample contained 15 ppm of unknown hydrocarbons in about the C-7 to C-23 carbon range and 8 tentatively identified organic compounds, see laboratory report in the attachment.

Table 2. Results of Groundwater Analyses
1600 63rd Street, Emeryville
Concentrations in mg/l (ppm)

Well	Sampling Date	Sampling Event	Arsenic EPA 6010	Cadmium EPA 6010	Thallium EPA 7841	Endrin Aldehyde EPA 8080	PCB 1260 EPA 8080	Heptachlor EPA 8080	4,4'-DDD EPA 8080	Gamma-BHC EPA 8080	Fluorene EPA 8270	Bis (2-ethyl-hexyl) phthalate EPA 8270	2-Methyl-naphthalene EPA 8270	Phen-anthrene EPA 8270
MW-1	18-Jun-89	INITIAL SAMPLING	<0.10	<0.01	<0.01	NT	NT	NT	NT	<0.00005	<0.005	<0.005	<0.005	<0.005
	21-Sep-89	2ND QTR SAMPLING	<0.05	0.03	<0.10	0.00010	0.00050	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005
	20-Dec-89	3RD QTR SAMPLING	<0.05	<0.01	<0.10	<0.00005	<0.0005	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005
	20-Mar-90	4TH QTR SAMPLING	<0.05	<0.01	<0.01	<0.00005	<0.0005	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005
MW-2	25-Jun-89	INITIAL SAMPLING	<0.10	<0.01	<0.10	NT	<0.0005	<0.00005	NT	<0.00005	trace	<0.005	<0.005	<0.005
	21-Sep-89	2ND QTR SAMPLING	<0.05	<0.01	<0.10	<0.00005	<0.0005	0.00016	0.00015	<0.00005	0.006	0.005	0.0061	<0.005
	20-Dec-89	3RD QTR SAMPLING	0.05	<0.01	0.11	<0.00005	<0.0005	<0.00005	<0.00005	<0.00005	<0.005	<0.005	0.012	<0.005
	20-Mar-90	4TH QTR SAMPLING	0.05	<0.01	<0.01	<0.00005	<0.0005	<0.00005	<0.00005	0.00035	0.0061	<0.005	0.018	0.0055
	11-May-90	RESAMPLING(C&T)	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	11-May-90	RESAMPLING(Enseco) *	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
MW-3	18-Jun-89	INITIAL SAMPLING	<0.10	<0.01	<0.10	NT	NT	NT	NT	<0.00005	<0.005	<0.005	<0.005	<0.005
	21-Sep-89	2ND QTR SAMPLING	<0.05	0.03	<0.05	<0.00005	<0.0005	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005
	20-Dec-89	3RD QTR SAMPLING	<0.05	<0.01	<0.10	<0.00005	<0.0005	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005
	20-Mar-90	4TH QTR SAMPLING	<0.05	<0.01	<0.01	<0.00005	<0.0005	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005
MW-4	25-Jun-89	INITIAL SAMPLING	<0.10	<0.01	<0.10	NT	<0.0005	<0.00005	NT	<0.00005	<0.005	<0.005	<0.005	<0.005
	21-Sep-89	2ND QTR SAMPLING	<0.05	<0.01	<0.05	<0.00005	<0.0005	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005
	20-Dec-89	3RD QTR SAMPLING	<0.05	<0.01	<0.10	<0.00005	<0.0005	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005
	20-Mar-90	4TH QTR SAMPLING	<0.05	<0.01	<0.01	<0.00005	<0.0005	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005
MW-5	30-Jun-89	INITIAL SAMPLING	<0.10	<0.01	<0.1	NT	NT	NT	NT	<0.00005	<0.005	<0.005	<0.005	<0.005
	21-Sep-89	2ND QTR SAMPLING	0.1	<0.01	<0.05	0.00015	0.00090	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005
	20-Dec-89	3RD QTR SAMPLING	<0.05	<0.01	<0.10	<0.00005	<0.0005	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005
	20-Mar-90	4TH QTR SAMPLING	<0.05	<0.01	<0.01	<0.00005	<0.0005	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005
FB	30-Jun-89	INITIAL SAMPLING	<0.10	<0.01	NT	NT	NT	NT	NT	NT	<0.005	<0.005	<0.005	<0.005
FB	21-Sep-89	2ND QTR SAMPLING	<0.05	<0.01	<0.05	<0.00005	<0.00050	<0.00005	<0.00005	<0.00005	<0.005	<0.005	<0.005	<0.005
MW-4DUP	20-Dec-89	3RD QTR SAMPLING	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
TB	20-Mar-90	4TH QTR SAMPLING	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT



EXPLANATION

MW-1 Monitoring Well

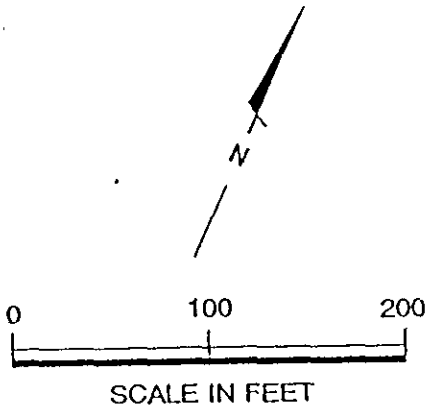


PLATE 1

Harding Lawson Associates
Engineering and Environmental Services

Site Plan
1600 63rd Street Association
Emeryville, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
EH	18452,020.02		8/89	

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415) 271-4320

25 May 1989

Mark Scher
Wareham Development Group
1600 63rd Street Association, Incorporated
1120 Nye Street
Suite 400
San Rafael, Ca. 94901

Subject: Above Ground Storage Tank Removal at 1600 63rd Street Emeryville.

Dear Mr. Scher:

Our office has received additional information from Mel Roshanravan, of Darling-Delaware Company, concerning the contents of the above ground storage tanks which had been located at the facility listed above. Mr. Roshanravan has provided analytical documentation which contradicts that provided by Engineering-Science in their report of December, 1988. Specifically, Mr. Roshanravan's analysis illustrates that levels of Chloroform and Toluene present in the tanks' contents were below detectable analytical limits.

Mr. Roshanravan described the materials contained within these tanks as tallow and animal fat. They are currently located in South San Francisco awaiting incorporation into the animal feed processes being conducted at other Darling-Delaware facilities.

In view of the information provided, it would appear that the contents of the above ground storage tanks located at 1600 63rd Street in Emeryville were not hazardous wastes. Consequently, the removal of the tanks themselves would not require that hazardous waste disposal procedures be followed. For this reason we ask that you disregard the request for hazardous waste manifests specified in our letter of 17 May, 1989.

If you have any questions concerning this matter, please contact, Dennis Byrne, Hazardous Materials Specialist, at (415) 271-4320.

Sincerely,

Rafat A. Shahid, Chief,
Hazardous Materials Division

RAS:DB

cc: Mel Roshanravan, Darling-Delaware Company, Incorporated
8737 King George Drive
#200
Dallas, Tx. 75235
Ed Clark, Harding Lawson Associates
P.O. Box 578
Novato, Ca. 94948

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415) 271-4320

17 May 1989

Mark Scher
Wareham Development Group
1600 63rd Street Association, Incorporated
1120 Nye Street
Suite 400
San Rafael, Ca. 94901

Subject: Review of the Site Characterization Report Concerning 1600 63rd Street, Emeryville.

Dear Mr. Scher:

Thank you for the site characterization report prepared by Engineering-Science Incorporated, in regards to the property listed above. This report has been reviewed by our department and it appears that the soil excavation conducted at this site has been sufficiently thorough. Furthermore, approval is granted for the installation of additional groundwater monitoring wells as described in the recommendations section of the report.

The only discrepancy noted in regards to this project concerns the final disposal of the above ground storage tanks which had been located at this site. As hazardous waste containers, these tanks should have been disposed of as hazardous wastes. Please submit a copy of the pertinent hazardous waste manifests so that we may include them in our records.

If you have any questions concerning this matter, please contact, Dennis Byrne, Hazardous Materials Specialist, at (415) 271-4320.

Sincerely,

Rafat A. Shahid, Chief,
Hazardous Materials Division

cc: Dan McCullar, Project Manager,
Engineering-Science, Inc.
600 Bancroft Way
Berkeley, Ca. 94710

[redacted] File [redacted] 8/23/88
LHM

Peterson Manufacturing

1600 63rd St. Emeryville

Spoke w/ Dan McCullar of Engr. Sci (consultant). Latest report being held up because property owner not making payments. Dan concerned this would reflect on E.S. so notified us.

TRANSMITTAL

Seq. 1 / Origin

ROUTE	INIT.
RBJ	
MAB	
LPK	
DMH	
GJG	

PLANNING	
RHW*	
MPC	
SLA	
DST	

INDUSTRIAL	
SRR*	
WKB+	
GRF	
BRL	
LWT	
LHH	
AGL+	
DCB	
KRH	
KJT	
MHK	
MDD+	
TEM	
JEC	
LAH	

Geo Support	
TMS	
SNH	
LHG	
CTS	

ROUTE	INIT.
MUNICIPAL	
TCW*	
RJC+	
RL	
ADF	
RAD	
SAH+	
WT	
SGE	
DAM+	
SRL	
JJ	
BDA	
Pretreat/Sp Prg	
ETH	
PCM	

SO. BAY TOXICS	
SIM*	
FEJ+	
JDW	
DLH	
BAA	
MTW	
JDW	
RKM+	
RWM	
JYL	
SDI	
TJB	
MYM	
JRM/	EC

TOXICS CLEANUP					
DDD*		PWJ+		MDK	
LF+		TC		SKM	
RMB		LCF			
		GSZ			
WBH		BHW			
		MRK			

A-1 (Revised 12/9/87)

DATE OF ORIGIN: RUSH ☐ ROUTINE ☐

MESSAGE BOARD: (INFORMAL INFO - DOES NOT GO TO FILE)

WORK ORDER -TECHNICAL STAFF

TYPING DUE_____

LETTERHEAD ☐
MEMO RWQCB ☐
INTERNAL MEMO ☐
DRAFT ☐

PHOTOCOPY DUE ____

PHOTOCOPY ☐ # Copies_____
SIDES: 1 ☐ 2 ☐
STAPLE ☐ BIND ☐
DISTRIBUTE TO: _____

MAILING DUE ____

MAIL ONLY ☐

Special Instructions:
This document has

ATTACHMENTS ☐
ENCLOSURES ☐

TASK NO._____
FILE NO_____

ADMINISTRATION DIVISION

TRANSMITTAL	
VJW*	
AJ	
EJ	
TMH+	
OT	
CDC	
SO. BAY DIV	
TLC	

STUDENTS					
DH		MR		AR	
JL		JG		IN	
MTC		EY		LHM	
PVF				WP	

NUMBER TYPED PAGES_____
TIME REQUIRED FOR DOC_____
DATE COMPLETED_____

____ LIBRARY ____ TRAINING BULLETIN BOARD

____ DISCARD ____ FILE_____

CA Cert. No. 18100

Underground Storage Tank Facility
UPGRADE COMPLIANCE CERTIFICATE

This upgrade compliance certificate is issued pursuant to Chapter 6.7, Section 25284(e), California Health and Safety Code.

An upgrade compliance certificate has been issued in connection with the operating permit for the facility indicated below. The certificate number on this facsimile matches the number on the certificate displayed at the facility.

Instructions to the issuing agency: Use the space below to enter the following information in the format of your choice: name of owner; name of operator; name of facility; street address, city, and zip code of facility; facility identification number (from Form A); name of issuing agency; and date of issue. Other identifying information may be added as deemed necessary by the local agency.

County of Alameda Environmental Health Services

Issue Date DEC 2 1 1998

STID# 147

Facility Federal Express Corporation

Owner Warham Group

1 Tank(s)

Operator Federal Express Corporation

Address 1600 63rd Street, Emeryville CA 94608

Facility# 300147

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6700
(510) 337-9432

July 22, 1998

James Danielson
Senior Manager
Federal Express
1600 63rd Street
Emeryville CA 94608

NOTICE OF STOPPAGE OF FUEL DELIVERIES

Our records show that your underground storage tank(s) have not been upgraded to meet the requirements of sections 25292(d) and (e) of the California Health and Safety Code.

Therefore, **you are on the list of facilities scheduled to no longer receive fuel af**

After that date it will be **illegal** for yo and if they do, they (and you) **will be pros**

In order to receive fuel next year, yo certificate that verifies that your undergroun December 22, 1998.

Keep in mind that hundreds of tank s brought into compliance by that date . The tank contractors and tank upgrade equipme in order to be able to hire a contractor, and immediately.

If you have any questions, call me at (510)567-6781.

Sincerely,

Robert Weston

Robert Weston

PS Form **3800**, April 1995

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

Sent to	
Street & Number	
Post Office, State, & ZIP Code	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	$
Postmark or Date	7/22/98

Z 115 363 796

Fuelleak Case Form

Review Date 4 / 22 / 88

Site Name Peterson Manufacturing Co.

Street Number 1600

Street 63rd St.

City Emeryville

County Number 01

Priority

Rank

Primary Substance

Secondary Substance

Case Type: U G D

Status

Soil Affected: Y U

Max.Soil Conc.(ppm)

Max.Residual Soil(ppm)

Soil Status

Groundwater Affected: Y U

Max. Gndwtr Impact

Groundwater Status

DEPTH TO GW.:

Drinking Water Affected: Y U

Drinking Water Status

Remedial Action

Date of Last Corr. / /

Date Recieved 3 / 7 / 88

Case Evaluated By

3/18/88

I VISITED THE SITE THIS MORNING AND TALKED WITH A SUBCONTRACTOR (STEVE). THE ONLY OTHER PERSON ON-SITE WAS THE BULLDOZER OPERATOR. STEVE SHOWED ME THE WELL, WHICH, AT THAT POINT, LOOKED LIKE A HOLLOW CASING STUCK IN THE GROUND (i.e., NO well pack, COVER, etc) THERE WAS A BARRACADE OVER THE WELL. I TOLD STEVE THAT THE WELL SHOULD NOT BE IMPROPERLY DESIGNATED, THAT THERE IS A PROPER WELL ABANDONMENT PROCEDURE, AND THAT THE CONSULTANT SHOULD BE ALLOWED TO DO THE JOB CORRECTLY. I TOLD HIM THAT THE SITE OWNER COULD BE HELD RESPONSIBLE IF THE ABANDONMENT WASN'T DONE CORRECTLY. HE TOLD ME THAT THEY DID PLAN TO TRY TO USE A HAMMER (ON A RIG) TO PUNCH THROUGH THE RUBBLE THAT HAD FALLEN INTO THE WELL, SO THAT A WATER SAMPLE COULD BE TAKEN. I TOLD HIM THAT THIS WOULD BE OK.

I THEN SPOKE WITH KATHERINE CHESTICK. WE DISCUSSED THE DIFFICULTY IN ABANDONING THE WELL WITH THE LIMITED CONSTRUCTION INFORMATION AVAILABLE. I TOLD HER THAT, IN LIGHT OF NEW INFO, TO FOLLOW THE INSTRUCTIONS THAT SEENA HAD GIVEN HER, AND TO TELL THE R.P. THAT DE WAS <u>REQUIRING</u>, NOT <u>RECOMMENDING</u>,

3/17/88
4 30 pm

Dear Greg.

Recieved desperate phone call from consultant Kathryn Chesick 548-7970 with Engineering Science. She is working on:

Peterson manufacturing site
1600 63rd St.
Emeryville.

Situation:

Industrial mill 350 ft deep 8" ID casing.
2 weeks ago pulled pump and piping (not casing)
Took water sample from surface of water -
do not know if there was free product.

17,000 gpm Diesel.

Greg. P. 2.

Water table at about 10 ft.
nearby wells to 25 ft. monitoring tanks
get much lower levels of diesel.
nearest well log has Sand at 4-5 ft and
Sandy fine - coarse gravel from 16-20 ft. No geologic
or other information on Industrial well.

Owner is planning to rip out slab around
well now. eg. Monday is too late.

Any emergency recommendation:

1. tell owner Strongly recommended by RWQCB
that the well be properly abandoned immediately.

Procedure.

2. clear well
3. Rip casing completely top to bottom
4. Trimmie pipe / pressure grout with salt
resistant grout to 50 ft.
5. measure grout take + levels of grout in
well periodically.

6. at 50 ft. let grout set up overnight.
7. Pull casing to surface
8. Overdrill to remove gravel pack
9. Pressure grout to surface placing packer against low permability zone.
10. Document everything carefully.

For you:

1. If owner doesn't do this must issue CAO instantly.
2. Follow up includes geologic investigation and cluster monitoring wells to 350 ft. to determine extent of contamination.

Sorry I stepped in like this but there was a clear need to do something before the owner destroyed the well head.

Lelia

ES
ENGINEERING-SCIENCE, INC.

600 BANCROFT WAY
BERKELEY, CALIFORNIA 94710
(415) 548-7970

8 April 1988
Ref: NC065.08

Alameda County Department of
Environmental Health
Division of Hazardous Materials
470 27th Street, Room 322
Oakland, CA 94612

Attention: Ms. Elizabeth Rose

Subject: Peterson Manufacturing Parcel 1600 63rd St

Dear Ms. Rose:

Enclosed please find Engineering-Science's proposed soil remediation Work Plan, and Health and Safety Plan for the Peterson Manufacturing site in Emeryville, California.

If you have any questions regarding this submission, please contact me at Engineering-Science's Berkeley office, (415) 548-7970.

Very truly yours,

Dan B. McCullar
Project Manager

DBM/dkm/358A/22

cc: Mark Scher, Wareham Development
Fred Glueck, Plant Reclamation
Michael Siembieda, Harding Lawson Assoc.
Richard Makdisi, ES

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
470 - 27TH ST., RM. 322
OAKLAND, CA 94612
PHONE NO. 415/874-7237

LIVERMORE

RECEIVED
FEB 18 1988
Engineering-Science
Berkeley

ACCEPTED
DEPARTMENT OF ENVIRONMENTAL HEALTH
470 - 27th Street, Third Floor
Oakland, CA 94612
Telephone: (415) 874-7237

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 assure compliance with State and local laws. The project proposed herein is now released for issuance of any required building permits for construction.

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

Any change or alteration 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.

THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS.

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

1. Business Name Peterson Manufacturing Company (former)

   Business Owner N.A.

2. Site Address 1600 63rd Street

   City Emeryville Zip 94608 Phone none

3. Mailing Address N.A. (see land owner)

   City _____ Zip _____ Phone _____

4. Land Owner Wareham Development

   Address 1120 Nye St., Ste. 400 City, State San Rafael, CA Zip 94901

5. EPA I.D. No. CAC 000064173

6. Contractor Plant Reclamation (Contractor to land owner)

   Address 912 Harbour Way So.

   City Richmond, CA 94804 Phone (415)233-6552

   License Type C21

7. Other (Specify) Engineering-Science (Environmental Consultant to land owner)

   Address 600 Bancroft Way

   City Berkeley, CA 94710 Phone (415)548-7970

Parking Dollmans - 1 - Greg Gardner
6737 King George Dr. 214 638-2223
Dallas TX 75235

DRAFT

8. Contact Person for Investigation

Name Katherine Chesick, Engineering-Science, Fred Glueck, Plant Reclamation Title Geologist, Contractor

Phone (415) 548-7970
(415) 233-6552

9. Total No. of Tanks at facility 4

10. Have permit applications for all tanks been submitted to this office? Yes [x] No [ ]
(See attachment B)

11. State Registered Hazardous Waste Transporters/Facilities

a) Product/Waste Tranporter

Name Erickson, Inc. EPA I.D. No. CAD 009466392

Address 255 Parr Blvd.

City Richmond State CA Zip 94801

b) Rinsate Transporter

Name Erickson, Inc. EPA I.D. No. CAD 009466392

Address 255 Parr Blvd.

City Richmond State CA Zip 94801

c) Tank Transporter

Name Erickson, Inc. EPA I.D. No. CAD 009466392

Address 255 Parr Blvd.

City Richmond, State CA Zip 94801

d) Contaminated Soil Transporter

Name NA, see attachment C EPA I.D. No. _____

Address _____

City _____ State _____ Zip _____

12. Sample Collector

Name Katherine Chesick/Eric Storrs

Company Engineering-Science, Inc.

Address 600 Bancroft Way

City Berkeley State CA Zip 94710 Phone 415/548-7970

DRAFT

13. Sampling Information for each tank or area

Tank or Area Tank 1		Material sampled	Location & Depth
Capacity	Historic Contents (past 5 years)		Northwestern site area, due east of the former solvent recovery plant
10,000 gallon	Stored hexane from 1965 to 1978. Circa mid 1986 stored diesel fuel which was transferred from Tank 4. Currently contains small amount of amber liquid and gray-brown sludge with diesel odor.	Gray brown sludge (tank sample)	Bottom of tank: 10.92 feet
		Soil (EB-4)	Southwest of Tank 1, 4.5 feet
		Soil (BH-10)	Southwest of Tank 1, 2.5 feet
		Soil (MW-3)	Southwest of Tank 1, 4.5 feet
		Water (MW-3)	Southwest of Tank 1

(Continued on next page)

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

If yes, describe. Not known. Soil samples collected in the vicinity of the tanks indicate fuel leaks or spills have occurred.

15. NFPA methods used for rendering tank inert? Yes [ ] No [ ]

If yes, describe. The API Bulletin 1604 method will be used to inert each tank. This method involves emplacement of 15 lbs. of dry ice per thousand gallons of tank capacity.

16. Laboratories

Name Thermo Analytical Inc.

Address 2030 Wright Avenue

City Richmond State CA Zip 94804

State Certification No. 208

(Continued next page)

13. Sampling Information for each tank or area

Tank or Area Tank 2		Material sampled	Location & Depth
Capacity 10,000 gallons	Historic Contents (past 5 years) Tank at least 30 years old. Reportedly stores gasoline but tank labelled Diesel #2. Currently contains small amount of oily amber liquid with slight gas or solvent odor with surface beads of oil or water.	Oily amber liquid (tank sample)	Central site area, northern most tank east of fuel island. Bottom of tank: 10.58 feet
		Soil (BH-5) Soil (EB-1) Soil (MW-1) Water (MW-1)	West of tank, 2.5 feet West of tank, 3.0 feet Southwest of tank, 5.0 feet Southwest of tank

16. Laboratories (Cont'd)

Engineering-Science, Inc.
600 Bancroft Way
Berkeley, California 94710
State Certification No. 170

Brown and Caldwell Laboratories
1255 Powell Street
Emeryville, California 94608
State Certification No. 104

13. Sampling Information for each tank or area

Tank or Area Tank 3		Material sampled	Location & Depth
Capacity	Historic Contents (past 5 years)		
10,000 gallons	Tank is 20 to 30 years old. Stored gasoline until 1981. Currently stores small amount of diesel fuel.	Amber liquid (tank sample)	Central site area, southern most tank east of fuel island. Bottom of tank: 10.75 feet
		Soil (BH-4)	West of tank, 2.5 feet
		Soil (BH-6)	West of tank, 1.0 feet

13. Sampling Information for each tank or area

Tank or Area Tank 4		Material sampled	Location & Depth
Capacity 10,000 gallons	Historic Contents (past 5 years) Tank is roughly 20 years old. Intially contained #2 boiler fuel; currently contains small amount of dark brown oil (#6 boiler fuel?) and possibly animal fat.	Dark brown oil (tank sample)	Sample of former boiler room in southern site area. Bottom of tank: 10.79 feet
		Soil (EB-3) Soil (BH-7)	West of tank, 3.0 feet Southwest of tank, 3.5 feet and 9.5 feet (composite)

17. Chemical Methods to be used for Analyzing Samples

DRAFT

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Number
Tank 1: Diesel; benzene toluene, xylene (each sample)	EPA Method 3550, Sonication Extraction	GC/FID modified 8015/8020
Hexane (one sample)	EPA Method 5030	EPA Method 8240 (GC/MS)
Oil and Grease (one sample)	EPA Method 3550, Solvent Extraction	Standard Method 503 A and E
Tanks 2 & 3: Gasoline and/or Diesel; benzene, toluene xylene (each sample)	EPA Method 5020 or 5030/ EPA Method 3550, Sonication Extraction	GC/FID modified 8015/8020
Tank 4: Diesel/Boiler fuel (each sample) & BTX	EPA Method 3550, Sonication Extraction	GC/FID modified 8015/8020
Volatile Organic Compounds (one sample)	EPA Method 5030	EPA Method 8240 (GC/MS)
Oil and Grease (one sample)	EPA Method 3550, Solvent Extraction	Standard Method 503 A and E

18. Site Safety Plan submitted? Yes [ ] No [x] Site safety plan will be submitted before tank excavation starts

19. Workman's Compensation: Yes [x] No [ ]

Copy of Certificate enclosed? Yes [x] No [ ] as Attachment D

Name of Insurer California Casualty

20. Plot Plan submitted? Yes [x] No [ ]

21. Deposit enclosed? Yes [ ] No [x] Deposit has already been submitted.

22. Please forward to this office the following information within 60 days after receipt of sample results.

a) Chain of Custody Sheets

b) Original Signed Laboratory Reports

c) TSD to Generator copies of wastes shipped and received

d) Attachment A summarizing laboratory results

DRAFT

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 will notify the Department of Environmental Health at least two (2) working days (48 hours) in advance to schedule any required inspections. I understand that site and worker safety are soley the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Signature of Contractor

Name (please type) FRED S. GLUECK

Signature Fred S. Glueck

Date 3/11/88

Signature of Site Owner or Operator

Name (please type) MARK SCHER

Signature

Date 3/8/88

NOTES:

1. Any changes in this document must be approved by this Department.
2. Any leaks discovered must be submitted to this office on an underground storage tank unauthorized leak/contamination site report form within 5 days of its discovery.
3. Three (3) copies of this plan must be submitted to this Department. One copy must be at the construction site at all times.
4. A copy of your approved plan must be sent to the landowner.

Attachment B

EMERYVILLE FIRE DEPARTMENT
FIRE PREVENTION BUREAU
6303 HOLLIS STREET
EMERYVILLE, CA 94608
655-7678

CITY OF EMERYVILLE

No 1072

FIRE CODE PERMIT

PERMISSION IS HEREBY GRANTED Plant Reclamation

TO ~~OPERATE~~ ~~MAINTAIN~~ ~~STORE~~ Remove 4 UG tanks(Petersen Tallow)

ON PREMISES LOCATED AT 1600-63rd Street

PERIODIC INSPECTIONS ARE A CONDITION OF THIS PERMIT WHICH IS ISSUED IN ACCORDANCE WITH UNIFORM FIRE CODE, AS SPECIFIED IN SECTION 4.101 OF SAID CODE.

ADDITION REQUIREMENTS notify Fire Dept. 24-hrs in advance of removal

ENG. CO. DISTRICT # 3 EXPIRATION DATE:

THIS PERMIT MUST BE POSTED WITH BUSINESS LICENSE

PERMIT APPROVED BY

George Warren Inspector 2/19/88

FIRE MARSHAL DATE

ATTACHMENT C

Contaminated soil will be excavated during removal of the underground storage tanks. Based on soil borings and an assumed excavation depth of 12 feet, roughly 930 cubic yards of soil will require excavation. Figure 4 shows the proposed tank and soil excavation areas.

The excavated soil, contaminated by gasoline and diesel fuel, will be remediated on-site through landfarming and tilling. This process will reduce hydrocarbon levels through the combined effects of aeration, exposure to the ultraviolet component of sunlight, and activity of indigenous microorganisms.

Soil from the area of Tanks 2 and 3 is contaminated by gasoline and will be landfarmed and tilled in conformance with Regulation 8, Organic Compounds Rule 40, Aeration of Contaminated Soil and Removal of Underground Storage Tanks. Soil from the Tank 1 area is contaminated by diesel fuel and is therefore exempt from Regulation 8, Rule 40. This soil will be landfarmed separately and will be tilled to maximize aeration effectiveness.

Landfarming and tilling will continue until volatile organic compound concentrations fall to levels at which the Alameda County Department of Environmental Services and the Regional Water Quality Control Board will permit the soil to be used as backfill.

Attachment D

ACORD CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY) 1/26/88

PRODUCER

CALIFORNIA CASUALTY
P.O. BOX M
SAN MATEO, CA 94402

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED

S.S.P. RECLAMATION DBA:
Plant Reclamation/Schnitzer Steel
912 Harbor Way South
Richmond, CA 94804

COMPANIES AFFORDING COVERAGE

COMPANY LETTER **A**	CALIFORNIA CASUALTY INDEMNITY EXCHANGE
COMPANY LETTER **B**	
COMPANY LETTER **C**	
COMPANY LETTER **D**	
COMPANY LETTER **E**	

COVERAGES

THIS IS TO CERTIFY THAT POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS, AND CONDITIONS OF SUCH POLICIES.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	ALL LIMITS IN THOUSANDS
	GENERAL LIABILITY COMMERCIAL GENERAL LIABILITY CLAIMS MADE OCCURRENCE OWNER'S & CONTRACTORS PROTECTIVE				GENERAL AGGREGATE $ PRODUCTS-COMP/OPS AGGREGATE $ PERSONAL & ADVERTISING INJURY $ EACH OCCURRENCE $ FIRE DAMAGE (ANY ONE FIRE) $ MEDICAL EXPENSE (ANY ONE PERSON) $
	AUTOMOBILE LIABILITY ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS HIRED AUTOS NON-OWNED AUTOS GARAGE LIABILITY				CSL $ BODILY INJURY (PER PERSON) $ BODILY INJURY (PER ACCIDENT) $ PROPERTY DAMAGE $
	EXCESS LIABILITY OTHER THAN UMBRELLA FORM				EACH OCCURRENCE $ AGGREGATE $
A	WORKERS' COMPENSATION AND EMPLOYERS' LIABILITY	2 00 0299	1/1/88	1/1/89	STATUTORY $ 1,000, (EACH ACCIDENT) $ 1,000, (DISEASE-POLICY LIMIT) $ 1,000, (DISEASE-EACH EMPLOYEE)
	OTHER				

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/RESTRICTIONS/SPECIAL ITEMS

CERTIFICATE HOLDER

City of Emeryville
2200 Powell Street
Emeryville, CA 94608

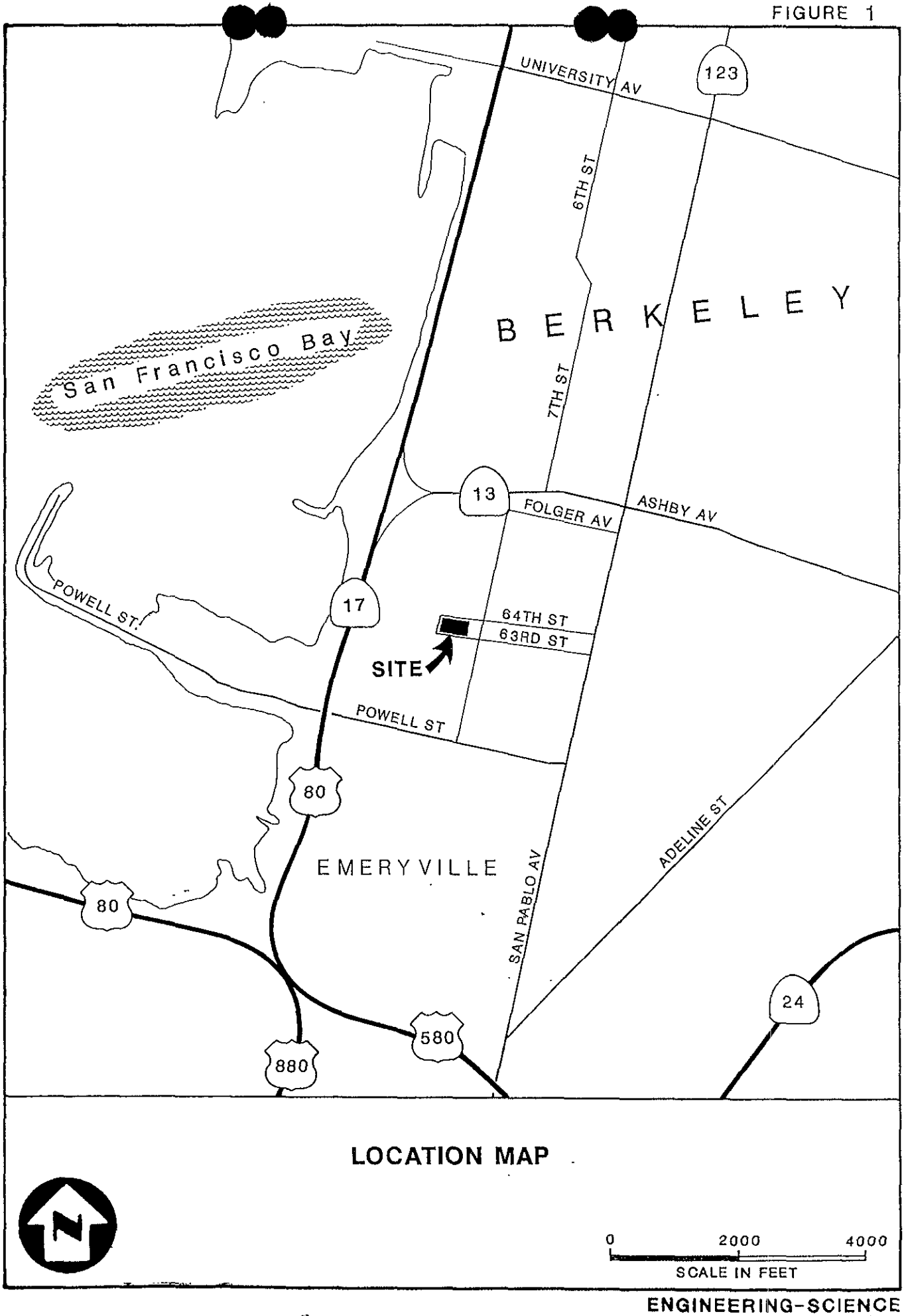
CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

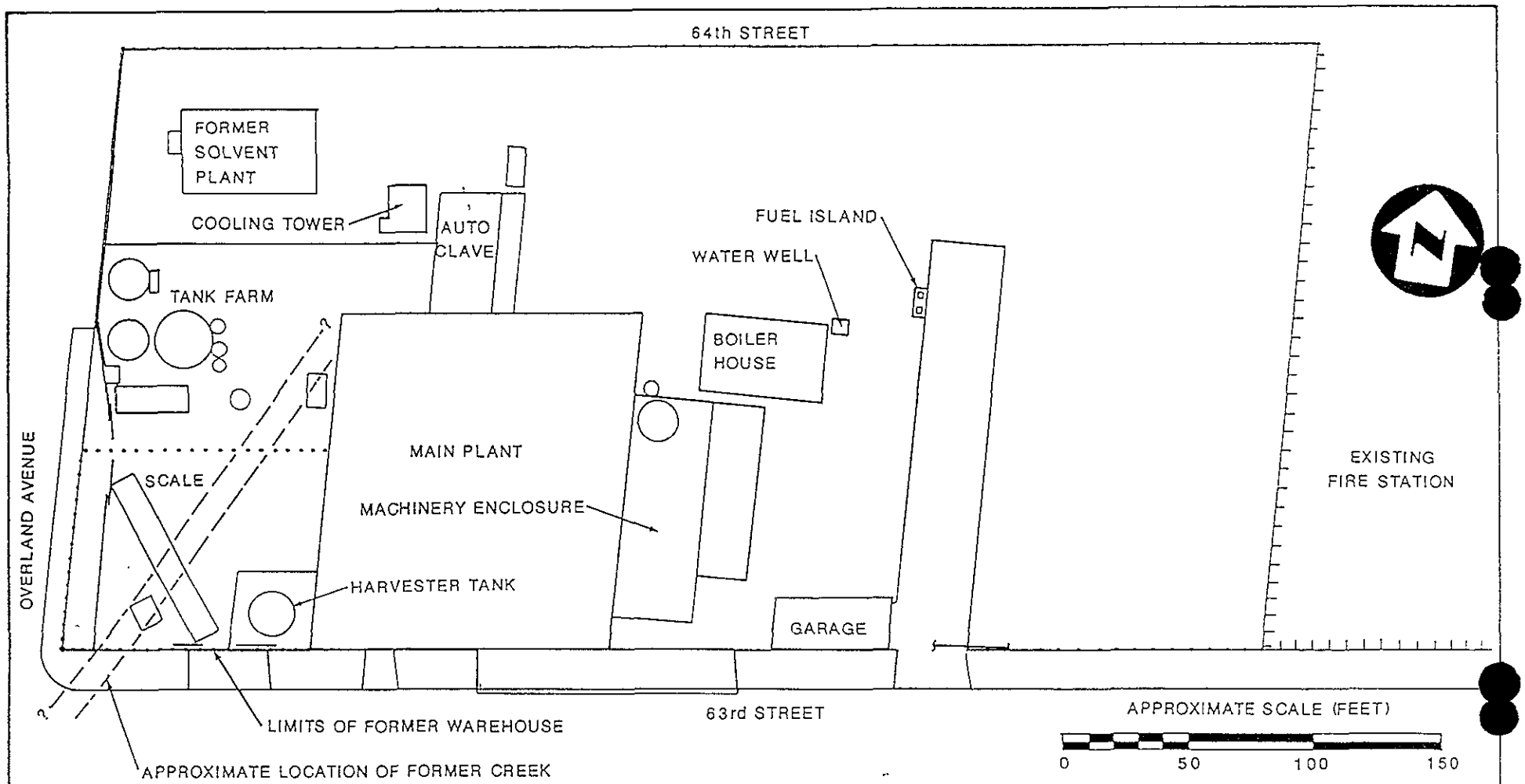
ACORD 25-S (11/85)

FIGURE 1



LOCATION MAP

ENGINEERING-SCIENCE

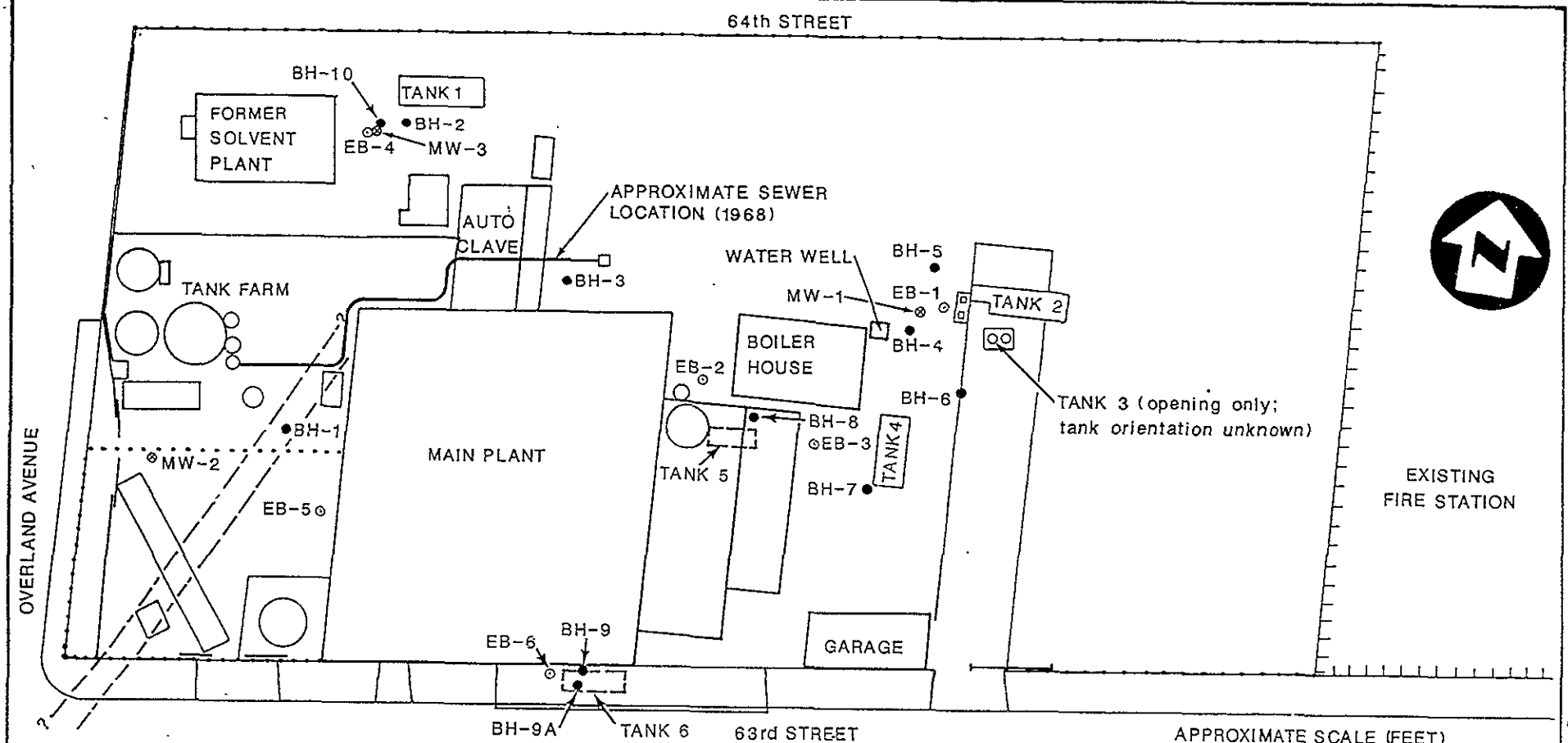


SITE PLAN
PETERSON MANUFACTURING CO. PARCEL
EMERYVILLE, CALIFORNIA

Base: "Plot Plan", by John F. Tulloch, Engineers, Contractors, dated January 24, 1968.

FIGURE 2

ENGINEERING-SCIENCE



LEGEND:

- TANK 5 — FORMER UNDERGROUND STORAGE TANK, APPROXIMATE LOCATION
- TANK 1 — EXISTING UNDERGROUND STORAGE TANK
- ● BH-1 — ES BOREHOLE
- ⊙ EB-1 — KALDVEER BORING, APPROXIMATE LOCATION
- ⊗ MW-2 — ES MONITORING WELL

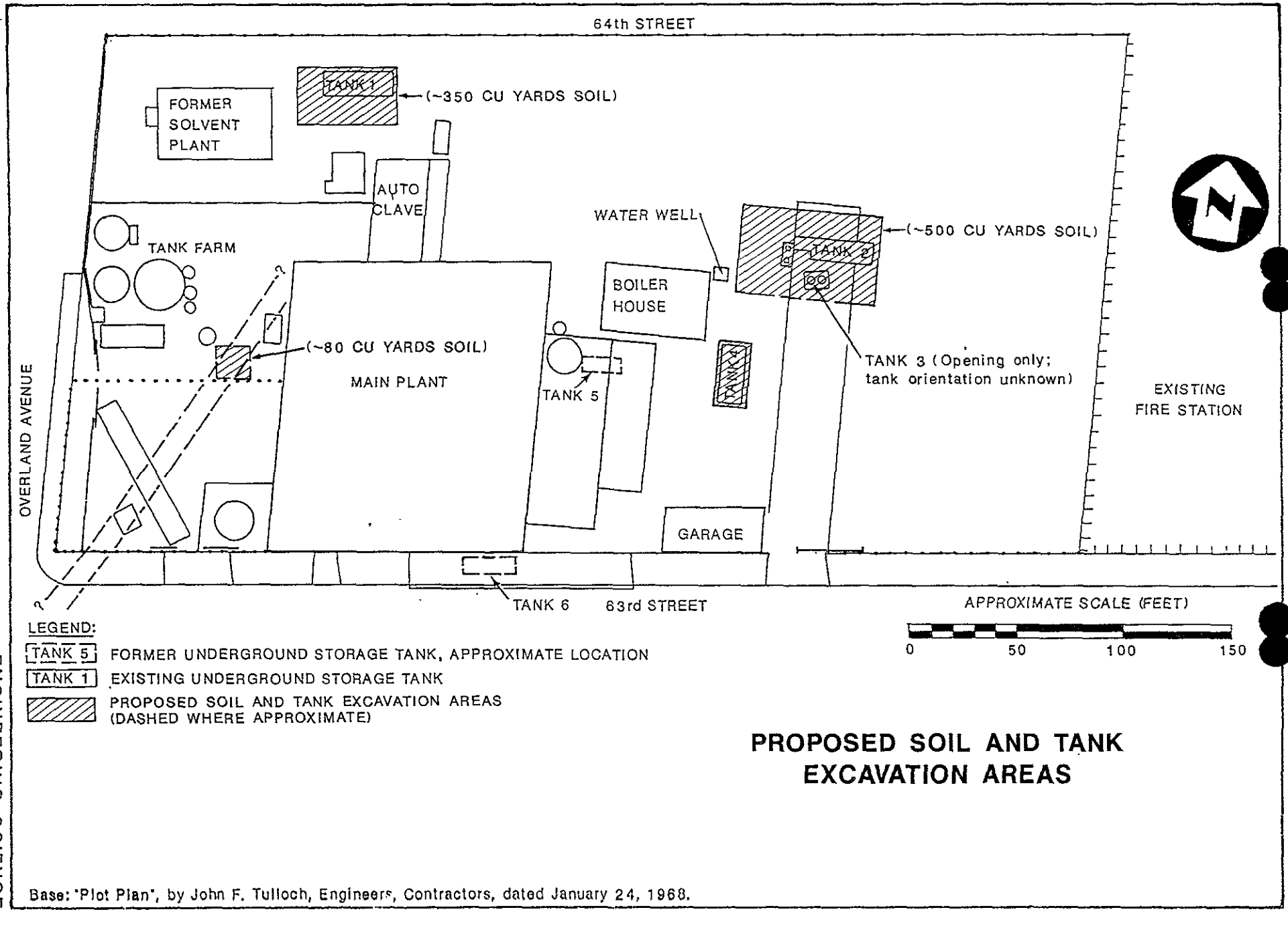
APPROXIMATE DEPTH TO GROUNDWATER: 9.5 FEET (PERCH WATER ZONES AND SEMI CONFINED NATURE OF AQUIFERS PREVENT ACCURATE GROUNDWATER DEPTH DETERMINATION)

TANK, WELL AND SOIL BORING LOCATIONS
PETERSON MANUFACTURING CO. PARCEL
EMERYVILLE, CALIFORNIA

Base: "Plot Plan", by John F. Tulloch, Engineers, Contractors, dated January 24, 1968.

ENGINEERING-SCIENCE

FIGURE 3



PROPOSED SOIL AND TANK EXCAVATION AREAS

Base: "Plot Plan", by John F. Tulloch, Engineers, Contractors, dated January 24, 1968.

ENGINEERING-SCIENCE

FIGURE 4

ES

TRANSMITTAL

ENGINEERING — SCIENCE, INC.
600 BANCROFT WAY
BERKELEY, CALIFORNIA 94710
(415) 548-7970

Date: 29 February 1988
ES Project No. NC065.06

IF MATERIAL NOT AS LISTED, PLEASE NOTIFY US AT ONCE

HOW MAILED:
Reg. X
Ex. Mail ___
Fed. Ex. ___
Greyhound ___
Other ___

To: Regional Water Quality Control Board
1111 Jackson Street
Room 6040
Oakland, California 94607
Attn: Mr. Greg Zentner
Re:

WE ARE SENDING YOU

☒ ATTACHED ☐ UNDER SEPARATE COVER VIA ___

☐ SHOP DRAWINGS ☐ TRACINGS
☐ PRINTS ☐ CATALOGS
☒ DOCUMENTS ☐ COPY OF LETTER
☐ SPECIFICATIONS ☐ ___

COPIES	DATE	ITEM
1	2/29	Underground Storage Tank Unauthorized release (leak) Contamination Site Report for the Peterson Manufacturing Company Property, Emeryville, CA (Monitoring Well Installation)

CALIFORNIA REGIONAL WATER
MAR 7 1988
QUALITY CONTROL BOARD

REMARKS The remaining copies have been sent to the Alameda County Division of Hazardous Material, Dept. of Environmental Health to the attention of Elizabeth Rose.

COPY TO
☐ File
☐ Author
☐ Reading File
☐ ___

SIGNED: Katherine A. Chesick
Katherine A. Chesick

(ES Berk 6 '78)

ES

TRANSMITTAL

ENGINEERING — SCIENCE, INC.
600 BANCROFT WAY
BERKELEY, CALIFORNIA 94710
(415) 548-7970

Date: 29 February 1988
ES Project No. NC065.06

IF MATERIAL NOT AS LISTED,
PLEASE NOTIFY US AT ONCE

To: Alameda County Div. of Hazardous Materials
Dept. of Environmental Health
470 27th Street, Room 322
Oakland, CA 94612
Attn: Elizabeth Rose
Re:

HOW MAILED:
Reg. X
Ex. Mail ___
Fed. Ex. ___
Greyhound ___
Other ___

WE ARE SENDING YOU

☒ ATTACHED ☐ UNDER SEPARATE COVER VIA ___

☐ SHOP DRAWINGS ☐ TRACINGS
☐ PRINTS ☐ CATALOGS
☒ DOCUMENTS ☐ COPY OF LETTER
☐ SPECIFICATIONS ☐ ___

COPIES	DATE	ITEM
6	2/29	Underground Storage Tank Unauthorized Release (leak)
		Contamination Site Report for the Peterson Manufacturing Co.
		Property, Emeryville, CA. (Monitoring Well Installation)

REMARKS Greg Zentner of the RWQCB already has a copy of this site report.

COPY TO

☐ File
☐ Author
☐ Reading File
☐ ___

SIGNED: Katherine A. Chesick
Katherine A. Chesick

(ES Berk 6 '78)

FUELLEAK CASE FORM

Review Date 1/28/88

Site Name Peterson Manufacturing Co

Streetnumber 1600

Street 63rd St

City Emeryville

County Number 01

Priority III

Rank

Primary Substance 8006619

Secondary Substance 12034

Waste Oil

Case Type (A) G D

Status N

Well Status NW

Soil Affected (Y) U

Max. Soil Conc. (ppm) 1300

Max. Residual Soil (ppm)

Soil Status N

Groundwater Affected (Y) ~~U~~ 17,000

Max. Groundwater Impact ~~NA~~ 2700

Groundwater Status N

Depth to Groundwater ~~NA~~ 10

Drinking Water Affected Y (U)

Drinking Water Status N

Remedial Action ~~C~~ NT

Proof of Action Needed ST WT

Date of Last Corr. ~~11/4/87~~ 3/17/88

Date Case Received 11/4/87

Case Evaluated By CZ

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

EMERGENCY [ ] YES [X] NO

HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? [ ] YES [X] NO

FOR LOCAL AGENCY USE ONLY
I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFTY CODE.
SIGNED _____ DATE _____

REPORT DATE: 02 M 20 D 88 Y | CASE #:

REPORTED BY
NAME OF INDIVIDUAL FILING REPORT: Katherine A. Chesick
PHONE: (415) 548-7970
SIGNATURE: Katherene A. Chesick
REPRESENTING: [ ] OWNER/OPERATOR [ ] REGIONAL BOARD [ ] LOCAL AGENCY [X] OTHER Consultant
COMPANY OR AGENCY NAME: Engineering-Science, Inc.
ADDRESS: 600 Bancroft Way (STREET) Berkeley (CITY) California (STATE) 94710 (ZIP)

RESPONSIBLE PARTY
NAME: Peterson Manufacturing Co. [ ] UNKNOWN
CONTACT PERSON: (present owner) Mark Scher, Wareham Develop.
PHONE: (415) 457-4964
ADDRESS: 1120 Nye Street (STREET) Suite 400 San Rafael (CITY) CA (STATE) 94901 (ZIP)

SITE LOCATION
FACILITY NAME (IF APPLICABLE): Peterson Manufacturing Company
OPERATOR:
PHONE: ( )
ADDRESS: 1600 63rd Street (STREET) Emeryville (CITY) Alameda (COUNTY) (ZIP)
CROSS STREET: Overland Avenue
TYPE OF AREA [ ] COMMERCIAL [X] INDUSTRIAL [ ] RURAL [ ] RESIDENTIAL [ ] OTHER
TYPE OF BUSINESS [ ] RETAIL FUEL STATION [ ] FARM [X] OTHER Tallow Manuf.

IMPLEMENTING AGENCIES
LOCAL AGENCY / AGENCY NAME: Alameda County Dept. of Environ. Health
CONTACT PERSON: Liz Rose
PHONE: (415) 874-7237
REGIONAL BOARD: RWQCB, San Francisco Bay Area
CONTACT PERSON: Greg Zentner
PHONE: (415) 464-0840

SUBSTANCES INVOLVED
(1) NAME: Diesel — QUANTITY LOST (GALLONS): _____ [XX] UNKNOWN
(2) Gasoline — _____ [XX] UNKNOWN

DISCOVERY/ABATEMENT
DATE DISCOVERED: 02 M 20 D 88 Y
HOW DISCOVERED: [ ] INVENTORY CONTROL [ ] SUBSURFACE MONITORING [ ] NUISANCE CONDITIONS [ ] TANK TEST [ ] TANK REMOVAL [XX] OTHER Soil and groundwater sampling
DATE DISCHARGE BEGAN: M M D D Y Y [X] UNKNOWN
HAS DISCHARGE BEEN STOPPED? [X] YES [ ] NO IF YES, DATE Post 1986 M M D D Y Y
METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)
[ ] REMOVE CONTENTS [ ] REPLACE TANK [ ] CLOSE TANK
[ ] REPAIR TANK [ ] REPAIR PIPING [ ] CHANGE PROCEDURE
[X] OTHER All but 8 in. of product removed from tanks.

SOURCE/CAUSE
SOURCE OF DISCHARGE: [ ] TANK LEAK [X] UNKNOWN [ ] PIPING LEAK [ ] OTHER
TANKS ONLY/CAPACITY: 10,000 GAL. AGE 20-30 YRS [ ] UNKNOWN
MATERIAL: [ ] FIBERGLASS [ ] STEEL [X] OTHER Unknown
CAUSE(S): [ ] OVERFILL [ ] RUPTURE/FAILURE [ ] CORROSION [X] UNKNOWN [ ] SPILL [ ] OTHER

CASE TYPE
CHECK ONE ONLY
[ ] UNDETERMINED [ ] SOIL ONLY [X] GROUNDWATER [ ] DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS
CHECK ONE ONLY
[X] SITE INVESTIGATION IN PROGRESS (DEFINING EXTENT OF PROBLEM) [ ] CLEANUP IN PROGRESS [ ] SIGNED OFF (CLEANUP COMPLETED OR UNNECESSARY)
[ ] NO ACTION TAKEN [ ] POST CLEANUP MONITORING IN PROGRESS [ ] NO FUNDS AVAILABLE TO PROCEED [ ] EVALUATING CLEANUP ALTERNATIVES

REMEDIAL ACTION
CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)
[ ] CAP SITE (CD) [ ] EXCAVATE & DISPOSE (ED) [ ] REMOVE FREE PRODUCT (FP) [ ] ENHANCED BIO DEGRADATION (IT)
[ ] CONTAINMENT BARRIER (CB) [ ] EXCAVATE & TREAT (ET) [ ] PUMP & TREAT GROUNDWATER (GT) [ ] REPLACE SUPPLY (RS)
[ ] TREATMENT AT HOOKUP (HU) [ ] NO ACTION REQUIRED (NA) [X] OTHER (OT) Being evaluated

COMMENTS
Soil/groundwater samples were collected during/after installation of 3 monitoring wells. Greatest concentration of total petroleum hydrocarbons (TPH) in soil samples were 1100 mg/kg (diesel) near former hexane/diesel UST and 360 mg/kg (gasoline) near two fuel island USTs. Groundwater samples revealed 2.7mg/ltr. TPH (gasoline) in the fuel island well.

HSC 05 (4/87)

ALAMEDA COUNTY
HEALTH CARE SERVICES
DAVID J. KEARS AGENCY
XXMKXXXXXXXXXX Agency Director

Certified Mailer #P241 310 281

470-27th Street, Third Floor
Oakland, California 94612
(415)874-7237

October 29, 1987

Mr. William A. Falik
Fraytag, LaForece, Rubinstein, Teofan & Falik
300 Montgomery Street, Suite 1200
San Francisco, CA 94104

Dear Mr. Falik:

Peterson Mfg.

We are in receipt of your letter of October 22, 1987, regarding the property located at 1600 - 63rd Street, Emeryville, CA.

You stated that the tanks located on the property are to be removed in the near future. Please submit to this office, a plan of closure, including, but not limited to the following, prior to any actions of removal:

1. The company removing the tanks
2. The method of cleaning, either on site or off site
3. The method of disposal and disposal site
4. The locations of soil samples to be taken and the State Certified Lab to be utilized

At the completion of the closure, copies of all manifest, bills of laden and certified lab analysis of samples taken, must be submitted to this office. Should the soil be found contaminated, a plan of correction will be required.

Since the tanks are to be removed soon, no permit to operate will be necessary, however, a fee for overseeing the closure and or clean-up will be required.

If you have any questions, please contact either, Edgar Howell, Senior Hazardous Materials Specialist or Lizabeth Rose, hazardous Materials Specialist, at 874-7237.

Sincerely,

R.C.A. Shahid

Rafat A. Shahid, Chief,
Hazardous Materials Division

cc: Jim Eversol, Emeryville FD
Greg Zentner, RWQCB
Edgar Howell, SR. HazMat Spec.
Lizabeth Rose, HazMat Spec.

405 B3 GSZ 1087

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

EMERGENCY ☐ YES ☒ NO

HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? ☐ YES ☒ NO

FOR LOCAL AGENCY USE ONLY
I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFTY CODE.
SIGNED _____ DATE _____

REPORT DATE: 10/14/87 CASE #:

REPORTED BY
NAME OF INDIVIDUAL FILING REPORT: Katherine A. Chesick
PHONE: (415) 548-7970
SIGNATURE: Katherine A. Chesick
REPRESENTING ☐ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ LOCAL AGENCY ☒ OTHER Consultant
COMPANY OR AGENCY NAME: Engineering Science, Inc.
ADDRESS: 600 Bancroft Way (STREET) Berkeley (CITY) CA (STATE) 94710 (ZIP)

RESPONSIBLE PARTY
NAME: Peterson Manufacturing Co. ☐ UNKNOWN
CONTACT PERSON: (present owner) Mark Sher, Wareham Develop.
PHONE: (415) 457-4964
ADDRESS: 1120 Nye Street (STREET) Ste. 400 San Rafael (CITY) CA (STATE) 94901 (ZIP)

SITE LOCATION
FACILITY NAME (IF APPLICABLE): Peterson Manufacturing Company
OPERATOR:
PHONE: ( )
ADDRESS: 63rd Street (STREET) Emeryville (CITY) Alameda (COUNTY) (ZIP)
CROSS STREET: overland Avenue
TYPE OF AREA ☐ COMMERCIAL ☒ INDUSTRIAL ☐ RURAL ☐ RESIDENTIAL ☐ OTHER
TYPE OF BUSINESS ☐ RETAIL FUEL STATION ☐ FARM ☒ OTHER Tallow Manf.

IMPLEMENTING AGENCIES
LOCAL AGENCY / AGENCY NAME: Alameda County Dept. of Environ. Health
CONTACT PERSON: Ted Gerow
PHONE: (415) 874-6434
REGIONAL BOARD: RWQCB, San Francisco Bay Area
CONTACT PERSON: Greg Zentner
PHONE: (415) 464-0840

SUBSTANCES INVOLVED
(1) NAME: Gasoline — QUANTITY LOST (GALLONS): ☒ UNKNOWN
(2) #2 Diesel Fuel (small amount) — ☒ UNKNOWN

DISCOVERY/ABATEMENT
DATE DISCOVERED: 09/02/87
HOW DISCOVERED ☐ INVENTORY CONTROL ☐ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☐ TANK TEST ☐ TANK REMOVAL ☒ OTHER Soil Sampling
DATE DISCHARGE BEGAN: ☒ UNKNOWN
HAS DISCHARGE BEEN STOPPED? ☐ YES ☒ NO IF YES, DATE
METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)
☐ REMOVE CONTENTS ☐ REPLACE TANK ☐ CLOSE TANK ☐ REPAIR TANK ☐ REPAIR PIPING ☐ CHANGE PROCEDURE ☐ OTHER

SOURCE/CAUSE
SOURCE OF DISCHARGE: ☐ TANK LEAK ☒ UNKNOWN ☐ PIPING LEAK ☐ OTHER
TANKS ONLY/CAPACITY: 10,000 GAL. AGE 20-30 YRS ☐ UNKNOWN
MATERIAL: ☐ FIBERGLASS ☐ STEEL ☒ OTHER Unknown
CAUSE(S): ☐ OVERFILL ☐ RUPTURE/FAILURE ☐ CORROSION ☒ UNKNOWN ☐ SPILL ☐ OTHER

CASE TYPE
CHECK ONE ONLY
☒ UNDETERMINED ☐ SOIL ONLY ☐ GROUNDWATER ☐ DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS
CHECK ONE ONLY
☒ SITE INVESTIGATION IN PROGRESS (DEFINING EXTENT OF PROBLEM) ☐ CLEANUP IN PROGRESS ☐ SIGNED OFF (CLEANUP COMPLETED OR UNNECESSARY)
☐ NO ACTION TAKEN ☐ POST CLEANUP MONITORING IN PROGRESS ☐ NO FUNDS AVAILABLE TO PROCEED ☐ EVALUATING CLEANUP ALTERNATIVES

REMEDIAL ACTION
CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)
☐ CAP SITE (CD) ☐ EXCAVATE & DISPOSE (ED) ☐ REMOVE FREE PRODUCT (FP) ☐ ENHANCED BIO DEGRADATION (IT)
☐ CONTAINMENT BARRIER (CB) ☐ EXCAVATE & TREAT (ET) ☐ PUMP & TREAT GROUNDWATER (GT) ☐ REPLACE SUPPLY (RS)
☐ TREATMENT AT HOOKUP (HU) ☐ NO ACTION REQUIRED (NA) ☒ OTHER (OT) Being evaluated

COMMENTS
Four USTs and two former UST areas exist on site. Greatest concentration of total petroleum hydrocarbons detected in soil samples was 1300 mg/kg (gasoline) near two fuel island USTs. 20 mg/kg (#2 diesel) found in soil west of a third UST; 17 mg/kg (#2 diesel) found in soil west of a former UST area.

HSC 05 (4/87)

FREYTAG, LAFORCE, RUBINSTEIN,
TEOFAN & FALIK

A PARTNERSHIP INCLUDING A PROFESSIONAL CORPORATION

ATTORNEYS AT LAW

300 MONTGOMERY STREET
SUITE 1200
SAN FRANCISCO, CALIFORNIA 94104
(415) 781-1400

DALLAS OFFICE:
FREYTAG, LAFORCE,
RUBINSTEIN & TEOFAN
2000 LINCOLN PLAZA
500 NORTH AKARD
DALLAS, TEXAS 75201
(214) 740-3000

AUSTIN OFFICE:
FREYTAG, LAFORCE,
RUBINSTEIN & TEOFAN
TWO CIELO CENTER, THIRD FLOOR
1250 CAPITAL OF TEXAS HWY., SOUTH
AUSTIN, TEXAS 78746
(512) 329-2508

SAN FRANCISCO PENINSULA OFFICE:
101 LINCOLN CENTRE DRIVE
SUITE 333
FOSTER CITY, CALIFORNIA 94404
(415) 571-5644

October 22, 1987

Mr. Edgar B. Howell, III
Alameda County
Health Care Services
470-27th Street, Third Floor
Oakland, CA 94612

Re: Bedford Realty Corporation;
Our File Number 044023-1

Dear Mr. Howell:

As I discussed with you earlier this week, this office represents Bedford Realty Corporation, which is the owner of that certain real property situated at 1600 63rd Street in Emeryville. As we discussed, Bedford Realty acquired the subject property approximately ten months ago. We have heard that there may be two abandoned oil storage tanks that are buried underground at the property. The principals of Bedford have negotiated a transaction for the complete cleanup and demolition of the existing structures on the property and the total restoration of the property with Richard Robbins, the President of Wareham Property Group. Mr. Robbins has substantial experience in these matters. We are now in the final stages of completing the contract between Mr. Robbins and our client and we understand that the cleanup procedures are scheduled to occur in the next few months. We will coordinate all of our efforts with your office and would be glad to file the registration applications for a permit if you deem it necessary. However, the cleanup will be proceeding in the immediate future and we frankly have no information about the tanks to report to you. We await your further response and direction.

Sincerely,

William A. Falik

WAF:rls
cc: Harold Oelbaum, Esq.
Arnold Bloom, Esq.
Richard Robbins
David Michel, Esq.
Carol Boman, Esq.

ES

TRANSMITTAL

ENGINEERING — SCIENCE, INC.
600 BANCROFT WAY
BERKELEY, CALIFORNIA 94710
(415) 548-7970

Date: 15 October 1987

ES Project No. NC065.03

IF MATERIAL NOT AS LISTED,
PLEASE NOTIFY US AT ONCE

To: Regional Water Quality Control Board
1111 Jackson St.
Rm. 6040
Oakland, CA 94607

Attn: Greg Zentner

Re:

WE ARE SENDING YOU

☒ ATTACHED ☐ UNDER SEPARATE COVER VIA

☐ SHOP DRAWINGS ☐ TRACINGS
☐ PRINTS ☐ CATALOGS
☒ DOCUMENTS ☐ COPY OF LETTER
☐ SPECIFICATIONS ☐

COPIES	DATE	ITEM
1	10/15	Underground Storage Tank unauthorized release (leak) contamination site report for the Peterson Manufacturing Company Property, Emeryville, CA.

REMARKS The remaining copies have been sent to the Hazardous Waste Material Management Program, Environmental Health Services, County of Alameda to the attention of Rafat Shahid.

COPY TO

☒ File
☐ Author
☒ Reading File
☐

SIGNED: Katherine Chesick
Katherine Chesick

(ES Berk 6/78)

10-27-87 Jw

63rd St Emeryville

ES

TRANSMITTAL

ENGINEERING — SCIENCE, INC.
600 BANCROFT WAY
BERKELEY, CALIFORNIA 94710
(415) 548-7970

Date: 15 October 1987

ES Project No. NC065.03

IF MATERIAL NOT AS LISTED, PLEASE NOTIFY US AT ONCE

To: Hazardous Materials Management Program
Environmental Health Services, County of Alameda
470 27th Street, Room 322
Oakland, CA 94612

Attn: Rafat Shahid

Re:

WE ARE SENDING YOU

☒ ATTACHED ☐ UNDER SEPARATE COVER VIA

☐ SHOP DRAWINGS ☐ TRACINGS
☐ PRINTS ☐ CATALOGS
☒ DOCUMENTS ☐ COPY OF LETTER
☐ SPECIFICATIONS ☐

COPIES	DATE	ITEM
6	10/15	Underground Storage Tank Unauthorized Release (leak) Contamination Site Report for the Peterson Manufacturing Co. Property, Emeryville, CA

REMARKS Greg Zentner of the RWQCB already has a copy of this site report.

RECEIVED
OCT 19 1987

COPY TO
☒ File
☐ Author
☒ Reading File
☐

SIGNED Katherine Chesick
Katherine Chesick

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

EMERGENCY ☐ YES ☒ NO

HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? ☐ YES ☒ NO

FOR LOCAL AGENCY USE ONLY
I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFTY CODE.
SIGNED _____ DATE _____

REPORT DATE: 10/14/87 CASE #:

REPORTED BY
NAME OF INDIVIDUAL FILING REPORT: Katherine A. Chesick
PHONE: (415) 548-7970
SIGNATURE: Katherine A. Chesick
REPRESENTING ☐ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ LOCAL AGENCY ☒ OTHER Consultant
COMPANY OR AGENCY NAME: Engineering Science, Inc.
ADDRESS: 600 Bancroft Way (STREET) Berkeley (CITY) CA (STATE) 94710 (ZIP)

RESPONSIBLE PARTY
NAME: Peterson Manufacturing Co. ☐ UNKNOWN
CONTACT PERSON (present owner): Mark Sher, Wareham Develop.
PHONE: (415) 457-4964
ADDRESS: 1120 Nye Street Ste. 400 (STREET) San Rafael (CITY) CA (STATE) 94901 (ZIP)

SITE LOCATION
FACILITY NAME (IF APPLICABLE): Peterson Manufacturing Company
OPERATOR:
PHONE: ( )
ADDRESS: 63rd Street (STREET) Emeryville (CITY) Alameda (COUNTY) (ZIP)
CROSS STREET: overland Avenue
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TYPE OF BUSINESS ☐ RETAIL FUEL STATION ☐ FARM ☒ OTHER Tallow Manf.

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LOCAL AGENCY / AGENCY NAME: Alameda County Dept. of Environ. Health
CONTACT PERSON: Ted Gerow
PHONE: (415) 874-6434
REGIONAL BOARD: RWQCB, San Francisco Bay Area
CONTACT PERSON: Greg Zentner
PHONE: (415) 464-0840

SUBSTANCES INVOLVED
(1) NAME: Gasoline — QUANTITY LOST (GALLONS): _____ ☒ UNKNOWN
(2) #2 Diesel Fuel (small amount) — ☒ UNKNOWN

DISCOVERY/ABATEMENT
DATE DISCOVERED: 09/02/87
HOW DISCOVERED ☐ INVENTORY CONTROL ☐ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☐ TANK TEST ☐ TANK REMOVAL ☒ OTHER Soil Sampling
DATE DISCHARGE BEGAN: ☒ UNKNOWN
HAS DISCHARGE BEEN STOPPED? ☐ YES ☒ NO IF YES, DATE
METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)
☐ REMOVE CONTENTS ☐ REPLACE TANK ☐ CLOSE TANK ☐ REPAIR TANK ☐ REPAIR PIPING ☐ CHANGE PROCEDURE ☐ OTHER

SOURCE/CAUSE
SOURCE OF DISCHARGE: ☐ TANK LEAK ☒ UNKNOWN ☐ PIPING LEAK ☐ OTHER
TANKS ONLY/CAPACITY: 10,000 GAL. AGE 20-30 YRS ☐ UNKNOWN
MATERIAL: ☐ FIBERGLASS ☐ STEEL ☒ OTHER Unknown
CAUSE(S): ☐ OVERFILL ☐ RUPTURE/FAILURE ☐ CORROSION ☒ UNKNOWN ☐ SPILL ☐ OTHER

CASE TYPE
CHECK ONE ONLY
☒ UNDETERMINED ☐ SOIL ONLY ☐ GROUNDWATER ☐ DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS
CHECK ONE ONLY
☒ SITE INVESTIGATION IN PROGRESS (DEFINING EXTENT OF PROBLEM) ☐ CLEANUP IN PROGRESS ☐ SIGNED OFF (CLEANUP COMPLETED OR UNNECESSARY) ☐ NO ACTION TAKEN ☐ POST CLEANUP MONITORING IN PROGRESS ☐ NO FUNDS AVAILABLE TO PROCEED ☐ EVALUATING CLEANUP ALTERNATIVES

REMEDIAL ACTION
CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)
☐ CAP SITE (CD) ☐ EXCAVATE & DISPOSE (ED) ☐ REMOVE FREE PRODUCT (FP) ☐ ENHANCED BIO DEGRADATION (IT)
☐ CONTAINMENT BARRIER (CB) ☐ EXCAVATE & TREAT (ET) ☐ PUMP & TREAT GROUNDWATER (GT) ☐ REPLACE SUPPLY (RS)
☐ TREATMENT AT HOOKUP (HU) ☐ NO ACTION REQUIRED (NA) ☒ OTHER (OT) Being evaluated

COMMENTS
Four USTs and two former UST areas exist on site. Greatest concentration of total petroleum hydrocarbons detected in soil samples was 1300 mg/kg (gasoline) near two fuel island USTs. 20 mg/kg (#2 diesel) found in soil west of a third UST; 17 mg/kg (#2 diesel) found in soil west of a former UST area.

Tom [redacted] File Peterson Manufacturing

PETERSON MANUFACTURING CO. INC.

1600 SIXTY THIRD STREET / EMERYVILLE, CALIFORNIA 94608 / PHONE 654-5772

September 10, 1986

Mr. Dan Shane
U.S.E.P.A.
215 Fremont Street
San Francisco, California 94105

Dear Mr. Shane:

As you have requested, we are submitting the following summary of activities at our plant on Tuesday, 9/9/86 that could have caused it to be a potential source of oil spillage into the San Francisco Bay.

To prepare for testing of an underground liquid storage tank for possible leaks, as required by State law, water was being added to the tank through a hose to completely fill the tank. When the tank level reached the top and it started to overflow, the overflow was found to contain heavy oil used for firing the boiler in addition to water. The hose was turned off as soon as possible and cleanup of the overflow was started. (Prior to overflow, the operator had assumed that the tank contained water.)

The overflow was washed along the edge of the property into a sump from which all rain runoff and yard washdown water which can contain fat and cooking oil is pumped into a reclaiming system within our building where fat and cooking oil is removed and the remaining effluent is disharged to the municipal sewer system. No problems were encountered during this operation.

On Wednesday, 9/10/86, representatives of U.S.E.P.A., United States Coast Guard, Alameda County Health Department, Alameda District Attorney's office and the State Fish and Wildlife Department arrived at our plant to investigate it as a potential source of oil spillage (Approximately 50 gallons as reported to us.) into the San Francisco Bay. It was felt by investigating parties that the sump referred to above had possibly been leaking into the storm sewer system and we were asked to drain, clean and inspect it and inform the United States Coast Guard or U.S.E.P.A. as to results before putting it back into operation.

As I advised you today, 9/11/86 by phone, our inspection showed no evidence of leakage but did show that an overflow pipe connected to the storm sewer system, at the top of the second compartment of the tank (adjacent to the sump pump compartment) did not have a plug in it. This meant that if conditions existed where the pump did not carry away the liquid as fast as it was flowing into the sump, liquid could overflow into the storm sewer system. The pump itself was operational, the flow rate into the sump had not been excessive, but the affect that higher viscosity oil might have had on the pump's capacity was unknown. The end of the pipe through which the sump pump discharges showed that higher viscosity oil had been discharged but rates are unknown.

To eliminate the possibility of an overflow from the sump source into the storm sewer system, we have installed a commercial plug in the overflow line. We have also repaired an asphalt burm near the same area so there could be no leakage if there was a liquid buildup in the yard area.

As you suggested, we will contact the City of Emeryvill Public Works Department and with their assistance determine if any other piping work has been done in an easement area outside of our property line where there is what appears to be fairly recent asphalt patching. We will promptly report results.

Very truly yours,

PETERSON MANUFACTURING CO.

L. G. Hanson
Vice President
Northern Division

LGH:pj

cc United States Coast Guard
Alameda County Health Care Services Agency
Alameda County District Attorney's Office
State Department Fish & Wildlife Service

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