

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



R01073

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

May 21, 1993

Sumadha Arigala
RWQCB, S.F. Bay Region
21010 Webster St., Ste 500
Oakland, CA 94612

STID 3733

RE: Anderson Lift Truck Transport (Falconer), located at 310
Bartlett Avenue, Hayward, California

RECOMMENDATION FOR UST CASE CLOSURE

Dear Mr. Arigala,

This office has reviewed the files for this site and has come to the conclusion that this site can be recommended for closure.

On April 26, 1989, a 500-gallon leaded gasoline underground storage tank (UST) was removed from the above site. Visual inspection of the tank and associated piping revealed no obvious holes. Two soil samples (AL-1 and AL-2) were collected from beneath the UST in native soil, one from 1 foot below the tank, and the other from 3 feet below the tank. The initial depth of the tank pit is unknown. These samples were analyzed for TPH as gasoline (TPHg) and BTEX. The lab analysis of these samples identified 2,400 ppm TPHg and 21 ppm benzene in sample AL-1. Analysis of sample AL-2 identified 140 ppm TPHg and traces of toluene, ethylbenzene, and xylenes (Please refer to attached copy of sampling locations and lab analysis results).

On January 14 and February 5, 1991, ENGEO Incorporated began overexcavation of the tank pit. Six confirmation soil samples were submitted for laboratory analysis. One sample was selected from the bottom and one from each sidewall. Soil samples from the bottom of the excavation were recovered at depths of 16.5 and 17 feet. Soil samples collected from the sidewalls were recovered at depths of 11 to 14 feet. These samples were analyzed for TPHg and BTEX. Analysis of these samples identified 1.3 ppm TPHg in Sample 3, upto .0032 ppm benzene in Sample 6, and traces of toluene and xylenes (Please refer to the attached copies of lab analysis results and sampling locations).

On April 9, 1992, three monitoring wells were installed at the site (Please refer to attached copies of borings). These wells have only been sampled twice, once on April 9, 1992 and once on

Sumadhu Arigala
Re: 310 Bartlett Ave.
May 21, 1993
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April 14, 1993. These samples were analyzed for TPHg and BTEX in both sampling events. No contaminants were identified. In the April 1992 sampling event, the ground water gradient was determined to be going towards the west, towards monitoring well MW-3. In the April 1993 sampling event, the ground water gradient was determined to be going to the east, not in the direction of any of the monitoring wells. However, I feel that the monitoring well locations are sufficient and if ground water had been impacted in the past, these wells would have at least identified minor contaminant concentrations. However, through both sampling events, no contaminants were detected above detection limits (Please refer to copies of site maps and laboratory analysis results).

Please review the attached information and notify this office as to whether RWQCB concurs with the recommendation. If you have any questions or comments, please contact me at (510) 271-4530.

Sincerely,



Juliet Shin
Hazardous Materials Specialist

cc: Edgar Howell-File(JS)

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State Water Resources Control Board
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UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

November 2, 1992

Robert Falconer
18776 Walnut Road
Castro Valley, CA 94546

STID 3733

RE: Required investigations at the site located at 310 Bartlett Avenue, Hayward, California

Dear Mr. Falconer,

The case file for the above site has been transferred to another Hazardous Materials Specialist, Juliet Shin.

One 550-gallon gasoline underground storage tank (UST) was removed from the site in April 1989. Two soil samples were collected from beneath this tank in native soil during the removal. Analysis of these samples identified Total Petroleum Hydrocarbon as gasoline (TPHg), as high as 2,400 parts per million (ppm), in both of the samples. In 1991, Engeo, Inc. further excavated the tank pit and collected confirmatory soil samples. Analysis of these samples identified only minor concentrations of TPHg and BTEX.

Although the vertical and lateral extent of soil contamination was essentially identified and most of it removed, no efforts have been made to determine whether the ground water has been impacted by the release at the site. Guidelines established by the California Regional Water Quality Control Board (RWQCB) requires that investigations be conducted whenever an unauthorized release of product is suspected from an UST. The observed soil contamination would indicate that the ground water may have been impacted.

You are required to conduct a **Preliminary Site Assessment (PSA)** to determine the lateral and vertical extent and severity of ground water contamination which may have resulted from the release at the site. The information gathered by the PSA will be used to determine an appropriate course of action to remediate the site, if deemed necessary. The PSA must be conducted in accordance with the RWQCB's Staff Recommendations for the Initial Evaluation and Investigation of Underground Tanks. The major elements of such an investigation are summarized in the attached **Appendix A**. The major elements of the guidelines include, but are not limited to, the following:

Mr. Robert Falconer
Re: 310 Bartlett Ave.
November 2, 1992
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- o At least one ground water monitoring well must be installed within 10 feet of the tank pit, oriented in the confirmed downgradient direction relative to ground water flow. In the absence of identifying the confirmed downgradient direction, a minimum of three monitoring wells will be required to verify gradient direction. During the installation of these wells soil samples are to be collected at five foot depth intervals and any significant changes in lithology until ground water is reached.
- o Subsequent to the installation of the monitoring wells, these wells must be surveyed to an established benchmark, with an accuracy of 0.01 foot. Additionally, ground water elevations are to be measured monthly for three consecutive months and then quarterly thereafter. Ground water samples are to be collected and analyzed quarterly. Samples are to be analyzed for the appropriate fuel contaminants listed in Table 2 of RWQCB's Staff Recommendations for the Initial Evaluation and Investigation of Underground Tanks.

The PSA proposal is due within 45 days of the receipt of this letter. Once the proposal is approved, field work should commence within 60 days. A report must be submitted to this office within 45 days after the completion of this phase of work at the site. Subsequent reports are to be submitted quarterly until this site qualifies for final RWQCB "sign-off". Such quarterly reports are due the first day of the second month of each subsequent quarter.

The referenced initial and quarterly reports must describe the status of the investigation and must include, among others, the following elements:

- o Details and results of all work performed during the designated period of time: records of field observations and data, boring and well construction logs, water level data, chain-of-custody forms, laboratory results for all samples collected and analyzed, tabulations of free product thicknesses and dissolved fractions, etc.
- o Status of ground water contamination characterization
- o Interpretation of results: water level contour maps showing gradients, free and dissolved product plume definition maps for each target component, geologic cross sections, etc.

Mr. Robert Falconer
Re: 310 Bartlett Ave.
November 2, 1992
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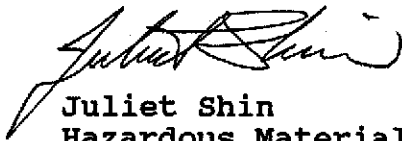
- o Recommendations or plans for additional investigative work or remediation

All reports and proposals must be submitted under seal of a California-Registered Geologist, -Certified Engineering Geologist, or -Registered Civil Engineer.

Please be advised that this is a formal request for technical reports pursuant to **California Water Code Section 13267 (b)**. Any extensions of the stated deadlines, or modifications of the required tasks, must be confirmed in writing by either this agency or RWQCB.

If you have any questions or comments, please contact me at (510) 271-4530.

Sincerely,



Juliet Shin
Hazardous Materials Specialist

cc: Eddy So, RWQCB

Hugh Murphy, Hayward Fire Dept.

Edgar Howell-File(JS)

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



R01073

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

June 4, 1991

Robert Falconer
310 Bartlett Ave.
Hayward CA 94541

RE: Groundwater Investigation Requirements

Dear Mr. Falconer:

I am writing as a follow up to our recent telephone conversation during which we discussed the need for an investigation of groundwater contamination at your site. This work will be required for the following reasons:

1. Initial concentrations of petroleum constituents were as high as 2400 parts per million in the soil beneath the tank.
1. Groundwater is shallow in the vicinity of your site.
2. Contamination is still present in the soil and is probably separated from groundwater by less than 20 feet.
3. Little information has been gathered about soil and groundwater conditions found at your site.
4. A limited number of soil samples were taken at your site, and a myriad of pathways exist by which leaked or spilled fuel could work its way from the tank through the soil.

You are required to investigate the full extent of petroleum contamination affecting groundwater at and beyond your site. As outlined in correspondence to you dated September 22, 1989 from this office, monitoring wells must be installed. **You must submit a work plan to this office by July 30, 1991.** The work plan must, at a minimum, address the items listed on Attachment 1 (enclosed). All work must be performed according to the guidelines found in the **Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks** and the **Leaking Underground Fuel Tank Manual**. Copies of these documents can be obtained from the RWQCB office in Oakland.

At a minimum, you must install three groundwater monitoring wells onsite. Wells must be sampled and samples chemically analyzed monthly for a minimum of three months. After three consecutive months of sampling, all monitoring wells must be sampled at least quarterly for a minimum of one year. You must monitor and chemically analyze for TPH as gasoline and BTEX components.

A groundwater gradient map must be developed for the site. A technical report must be submitted within three months of the

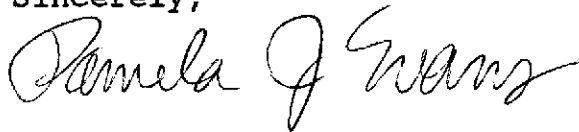
Robert Falconer
June 4, 1991
Page 2 of 2

time that the first sampling results are available. This report must present and interpret the information generated during the initial subsurface investigation. All reports and proposals must be signed by a qualified person as described in RWQCB guidelines. All proposals, reports, and analytical results pertaining to this investigation and site remediation must be sent to this office and to:

Richard Hiett
RWQCB
2101 Webster St., 4th Floor
Oakland CA 94612

I strongly recommend that you submit your work plan for review to this office **before** beginning work at the site. You may contact me with any questions at (415)271-4320.

Sincerely,



Pamela J. Evans
Hazardous Materials Specialist

Enclosures

c: Richard Hiett, RWQCB
Sean Delaney, Decon Environmental Services, Inc.

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



R01073

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

June 4, 1991

Robert Falconer
310 Bartlett Ave.
Hayward CA 94541

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1. Groundwater is shallow in the vicinity of your site.
2. Contamination is still present in the soil and is probably separated from groundwater by less than 20 feet.
3. Little information has been gathered about soil and groundwater conditions found at your site.
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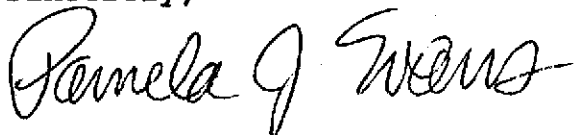
Robert Falconer
June 4, 1991
Page 2 of 2

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RWQCB
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Sincerely,



Pamela J. Evans
Hazardous Materials Specialist

Enclosures

c: Richard Hiett, RWQCB
Sean Delaney, Decon Environmental Services, Inc.

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



R01073

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

November 28, 1990

Cal Anderson
Anderson Lift Truck Transport
310 Bartlett Av.
Hayward CA 94541

RE: Soil Contamination at 310 Bartlett Av., Hayward 94541

Dear Mr. Anderson:

In the course of the underground storage tank removal at your site, significant soil contamination was discovered. You were instructed by this office, in correspondence dated September 22, 1989, to submit a site contamination report and to begin an investigation of the full depth and lateral extent of site contamination. You must submit the report form (enclosed) and a site investigation work plan **no later than January 15, 1991**. A work plan format was sent to you with the September 22 correspondence.

In addition, you must provide information regarding the soil excavated from the tank pit. No analysis results were ever submitted to this office. Contaminant levels must be established for this soil prior to reuse, remediation, or disposal. Submit this any available soil sampling results on or before the due date for your site plan.

You must also submit a check to this office for \$500.00, payable to Alameda County, in order to cover this agency's remediation oversight costs.

You may contact me with any questions at 271-4320.

Sincerely,

Pamela J. Evans
Hazardous Materials Specialist

c: Richard Hiatt, Regional Water Quality Control Board
Stuart G. Solomon, Geo Environmental Technology

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

R01073

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

4

April 2, 1990

Janet Burggraf
Applied Geosystems
43255 Mission Boulevard
Fremont CA 94539

Re: Site Search Request for Hayward properties

Dear Ms. Burggraf:

My staff has completed a site search of the Hayward properties as you requested in your March 19 correspondence. You requested the following types of information regarding underground tanks and site investigations for hazardous materials at or in the vicinity of specified streets within the city of Hayward:

1. Addresses at which underground storage tanks have been used
2. The dates of use of the USTs
3. Contents of USTs
4. Whether soil or groundwater samples had been taken and results
5. Status of sites at which investigations have taken place

Below is a summary of the information available from our files on sites at which underground storage tanks have been or are being used.

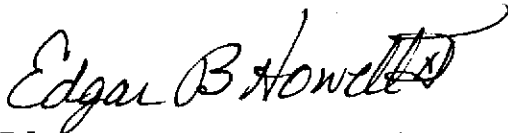
Site Address:	Dates used:	Contents:	Sampling?	Investigation?
352 West A St.	No info	waste oil	No	No
(R02454) 82 A St.	No info	waste oil	No	No
100 A St.	Removed 6/86	waste oil	Yes	Yes
			See enclosure	
			Awaiting remediation plans	
207 A St.	No info	gasoline	No	No
(R02550) 486 A St.	No info	gasoline + waste oil	No	No
(R01167) 22383 Meekland	Until 1985	gasoline	No	No
(R01073) 310 Bartlett Av.	Removed 4/89	gasoline	Yes	Yes
			See enclosure	
			Site remediation in progress	

This statement is limited to information available to this department. Other information may be available from other agencies or businesses involved with this property. The underground storage tank laws and hazardous material storage laws are regulated by the City of Hayward, Hazardous Materials Division.

April 2, 1990
Janet Burggraf
Applied Geosystems
Re: Site Search Request for Hayward properties
Page 2 of 2

A billing form is being submitted to cover the costs of this review.
Please contact Pamela Evans, Hazardous Materials Specialist, at
272-4320, with any questions you may have.

Sincerely,

A handwritten signature in cursive script that reads "Edgar B. Howell III". The signature is written in dark ink and is positioned above the typed name.

Edgar B. Howell III, Chief
Hazardous Materials Division

EBH:PJE

c: Hugh Murphy, City of Hayward

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



R01073

September 22, 1989

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

Mr. Robert Falconer
Anderson Lift
310 Bartlett Ave.
Hayward, CA 94541

Re: Unauthorized release from underground storage tank(s), 310
Bartlett Ave., Hayward

Dear Mr. Falconer:

During the removal of an underground storage tank at the above location, contaminated soil was discovered. At 1 and 3 foot depths under the tank levels of Total Petroleum Hydrocarbons (TPH) were found to be 2,400 and 140 respectively. These levels exceed thresholds established by the Regional Water Quality Control Board (RWQCB) for the occurrence of an "unauthorized release." Title 23 of the California Code of Regulations requires all such releases from underground tanks to be reported. You must file an unauthorized release report with this office, a copy of which is attached.

A preliminary assessment should be conducted to determine the extent of groundwater contamination that has resulted from the leaking tank. The information gathered by this investigation will be used to assess the need for additional actions at the site. The preliminary assessment should be designed to provide all of the information in the format shown in the attachment at the end of this letter. This format is based on RWQCB guidelines. You should be prepared to install one monitoring well, if you can verify the direction of groundwater flow in the immediate vicinity of the site, and three wells if you cannot.

Until cleanup is complete, you will need to submit reports to this office and to the RWQCB every three months (or at a more frequent interval, if specified at any time by either agency). These reports should include information pertaining to further investigative results; the methods and costs of cleanup actions implemented to date; and the method and location of disposal of any contaminated material. Apparently no contaminated material has been disposed of to date.

Mr. Robert Falconer
September 22, 1989
Page 2 of 2

Your work plan should be submitted to this office by **October 20, 1989** . Copies of the proposal should also be sent to the RWQCB (attention: Lester Feldman). You may implement remedial actions before approval of the work plan, but final concurrence by this office will depend on the extent to which the work done meets the requirements described in this letter. If you have any questions about this letter or about remediation requirements established by the RWQCB, please contact Tom Peacock, Sr. Hazardous Materials Specialist, at 271-4320.

Sincerely,

Rafat A. Shahid

Rafat A. Shahid, Chief
Hazardous Materials Division

RAS:GW:gw

enclosure

cc: Howard Hatayama, DOHS (w/o enclosure)
Lester Feldman, San Francisco Bay RWQCB (w/o enclosure)
Gil Jensen, District Attorney, Alameda County Consumer and
Environmental Protection Agency (w/o enclosure)

WORK PLAN REQUIREMENTS FOR AN INITIAL SUBSURFACE INVESTIGATION

This outline should be followed by professional engineering or geologic consultants in preparing work plans to be submitted to the RWQCB and local agencies. Work plans must be signed by a California-registered engineer or geologist.

This outline should be referred to in context with the "Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks" (June 2, 1988).

PROPOSAL FORMAT

- I. Introduction
 - A. State the scope of work
 - B. Items are omitted that have already been received by this Department

- II. Site Description
 - A. Describe the hydrogeologic setting of the site vicinity
 - B. Prepare a vicinity map (including wells located on-site or on adjoining lots, as well as any nearby streams)

- III. Plan for Determining Extent of Soil Contamination
 - A. Describe method for determining the extent of contamination within the excavation
 - B. Describe sampling methods and procedures to be used
 1. If a soil gas survey is planned, then:
 - identify number of boreholes, locations, sampling depths, etc.;
 - identify subcontractors, if any;
 - identify analytical methods;
 - provide a quality assurance plan for field testing.
 2. If soil borings are to be used to determine the extent of soil contamination, then:
 - identify number, location (mapped), and depth of the proposed borings;
 - describe the soil classification system, soil sampling method, and rationale;
 - describe the drilling method for the borings, including decontamination procedures;
 - explain how borings will be abandoned.
 - C. Describe how clean and contaminated soil will be differentiated, and describe how excavated soil will be stored and disposed of. If on-site soil aeration is to be used, then describe:
 1. The volume and rate of aeration/turning;
 2. The method of containment and cover;
 3. Wet-weather contingency plans;
 4. Results of consultation with the Bay Area Air Quality Management District.

Other on-site treatments (such as bioremediation) require permits issued by the RWQCB. Off-site storage or treatment also requires RWQCB permits.

- D. Describe security measures planned for the excavated hole and contaminated soil

IV. Plan for Characterizing Groundwater Contamination

Construction and placement of wells should adhere to the requirements of the "Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks."

- A. Explain the proposed locations of monitoring wells (including construction diagrams), and prepare a map to scale

- B. Describe the method of monitoring well construction and associated decontamination procedures

1. Expected depth and diameter of monitoring wells.
2. Date of expected drilling.
3. Locations of soil borings and sample collection method.
4. Casing type, diameter, screen interval, and pack and slot sizing technique.
5. Depth and type of seal.
6. Development method and criteria for determining adequate development.
7. Plans for disposal of cuttings and development water.
8. Surveying plans for wells (requirements include surveying to established benchmark to 0.01 foot).

- C. Groundwater sampling plans

1. Water level measurement procedure.
2. Well purging procedures and disposal protocol.
3. Sample collection and analysis procedures.
4. Quality assurance plan.
5. Chain-of-custody procedures.

V. Prepare a Site Safety Plan