

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

R02566
✓ R01054

StID 3609

April 5, 1993

Mr. Sumadhu Arigala
SF-RWQCB
2101 Webster St., Ste. 500
Oakland, CA 94612

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

**Subject: Site Closure Recommendation for Shell Service Station,
1155 Portola Ave., Livermore 94550**

Dear Mr. Arigala:

This office has completed review of Weiss Associates' (WA) subsurface investigation report, dated January 27, 1993, for the above referenced site. WA is requesting case closure for the former waste oil tank.

In 1986 a subsurface investigation began with the advancement of a soil boring adjacent to the waste oil underground storage tank. Soil sample collected from 7.5 feet depth exhibited 27,000 ppm TOG. When the waste oil tank was actually removed in 1989, soil sample collected from native soil two feet below the tank did not detect any petroleum contaminants. Obvious contaminated soil from the side walls and floor was removed under the supervision of a staff member of this Agency. Because the tank has several holes up to one-half inch in diameter, this agency requested that additional investigation be undertaken to determine the lateral and vertical extent of contamination to soil, and groundwater, if any, which may have resulted from the unauthorized release at this site.

In December 1992, three soil borings were advanced within 10 feet of the former waste oil tank. No boring could be advanced to the north of the former tank because of the existing building. Soil samples were collected and analyzed at 5 to 10 feet intervals. Laboratory results did not indicate any petroleum contaminants. One soil boring, BH-A, was advanced to 61.5 feet where the soil was wet, but not saturated. This boring was allowed to stand open overnight, with no apparent accumulation of groundwater. Mr. Scott Seery, of this office, and Mr. Scott MacLeod of WA decided to abandon the installation of any groundwater monitoring wells at this site. The borings were then grouted.

From my review of the data presented, it appears the leak from the waste oil tank is localized. Some soil contamination may remain beneath the building but does not appear to cause a threat to ground water. It is my opinion that this case should be reviewed by the RWQCB for potential case closure of the waste oil

Sumadhu Arigala
re: Shell Station, 1155 Portola, Liv.
April 5, 1993

Page 2

tank.

Please contact me at (510) 271-4530 should you need a copy of any reports pertaining to this site, or if you need additional information.

Sincerely,



eva chu
Hazardous Materials Specialist

cc: Dan Kirk, Shell Oil, P.O.Box 5278, Concord, CA 94520-9998
Scott MacLeod, WEISS Associates, 5500 Shellmound,
Emeryville, CA 94608-2411
files

shell121v

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RO 2566 (LOP)
✓ RO1054 (LOP)

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

October 2, 1992

STID 3609

Mr. Dan Kirk
Shell Oil Company
P.O. Box 5278
Concord, CA 94520

RE: SHELL SERVICE STATION, 1155 PORTOLA AVENUE, LIVERMORE

Dear Mr. Kirk:

The Department is in receipt and has completed review of the September 17, 1992 Weiss Associates (WA) "Addendum to Workplan," submitted to amend the original WA work plan dated June 26, 1992. This work plan, as amended, has been accepted.

Please note, however, that the anticipated ground water flow direction depicted on Figure 1 of the noted WA addendum may be in error. The closest natural surface drainage is Arroyo las Positas, approximately 1100 feet N10°E from the site, and may be the controlling hydrologic feature in the area.

Please call me at 510/271-4530 when field work is scheduled to begin.

Sincerely,



Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

cc: Rafat A. Shahid, Assistant Agency Director
Mark Thomson, Alameda County District Attorney's Office
Eddy So, RWQCB
Danielle Stefani, Livermore Fire Department
Scott MacLeod, Weiss Associates
Ed Howell - files

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



R02566

✓ R01054

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 21, 1992

STID 3609

Mr. Dan Kirk
Shell Oil Company
P.O. Box 5278
Concord, CA 94520

RE: SHELL SERVICE STATION, 1155 PORTOLA AVENUE, LIVERMORE

Dear Mr. Kirk:

This letter follows our telephone conversation yesterday and my discussions with Mr. Eddy So of the San Francisco Bay Regional Water Quality Control Board (RWQCB) regarding the scope of the preliminary site assessment proposed for the referenced Livermore site. To summarize our conversation, the June 26, 1992 Weiss Associates (WA) proposal must be amended to satisfy the fundamental requirements to continually monitor ground water gradients, and to assess the extent of soil contamination in proximity to the former waste oil underground storage tank (UST).

The following list outlines required changes, and identifies additional information omitted from the June 26, 1992 WA proposal:

- 1) Additional borings around and within 10 feet of the former waste oil tank are needed to evaluate the lateral and vertical extent of soil contamination associated with the unauthorized release from this tank. We discussed that two (2) more borings, in addition to the proposed monitoring well boring, may suffice. All samples collected from these borings shall be analyzed for the target compounds noted in paragraph 2 of page 2 of the June 26 proposal;
- 2) Soil samples from the noted borings shall also be collected when field screening measures, or observations of cuttings, indicate possible contamination. This adds to the sampling criteria noted in Attachment A, "Standard Sampling Procedures," in the June 26 WA proposal;
- 3) Ground water gradients shall be continually confirmed. Proposed piezometers shall be constructed as permanent installations (i.e., casings terminated below grade, Christy boxes, locking caps, etc.);

Mr. Dan Kirk
RE: Shell Station, 1155 Portola Ave., Livermore
August 21, 1992
Page 2 of 2

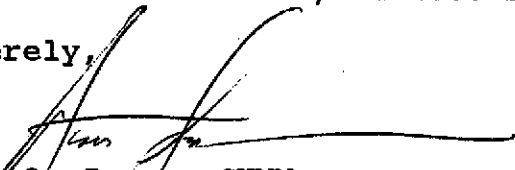
- 4) The proposed single well must be constructed within 10 feet of, and in the confirmed downgradient direction from, the former waste oil UST. A comprehensive review of available gradient data from wells located proximal to this site may provide the information necessary for the initial installation. Continual ground water monitoring shall confirm whether its location is appropriate;
- 5) Provide schematic construction diagrams for the proposed well and piezometers, including expected depths;
- 6) Discuss depth to ground water measurement methods;
- 7) Provide a site map which identifies the location of all pertinent site features (i.e., UST locations, utilities, boring locations, etc.).

Please submit the requested information within 15 days of the date of this letter, so that quick approval and implementation of this project proposal may follow.

Once approved, you are requested to adhere to a schedule of quarterly ground water monitoring, sampling, and reporting. The scope of such reports is outlined in the February 18, 1992 correspondence from this office (copy attached). Sampling and monitoring frequencies may change should data indicate the need.

Please call me at 510/271-4530 should you have any questions.

Sincerely,



Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

attachment

cc: Rafat A. Shahid, Assistant Agency Director
Mark Thomson, Alameda County District Attorney's Office
Eddy So, RWQCB
Danielle Stefani, Livermore Fire Department
Scott MacLeod, Weiss Associates

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



R02566
vR01054

RAFAT A. SHAHID, Assistant Agency Director

STID 3609

June 3, 1992

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
80 Swan Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

Mr. Scott MacLeod
Weiss Associates
5500 Shellmound Street
Emeryville, CA 94608-2411

RE: SHELL SERVICE STATION, 1155 PORTOLA AVENUE, LIVERMORE

Dear Mr. MacLeod:

As we discussed by telephone yesterday, the due date for submittal of a Preliminary Site Assessment work plan has been extended until June 16, 1992. This extension is to give Weiss Associates the opportunity to consult with the Regional Board regarding alternative site investigation strategies.

Please call me at 510/271-4320 should you have any questions or comments.

Sincerely,


Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

cc: Rafat A. Shahid, Assistant Agency Director, Environmental Health
Gil Jensen, Alameda County District Attorney's Office
Eddie So, RWQCB
Howard Hatayama, DHS
Danielle Stefani, Livermore Fire Department
Dan Kirk, Shell Oil Company, P.O. Box 5278, Concord, 94520-9998

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



R02566

VR01054

RAFAT A. SHAHID, Assistant Agency Director

STID 3609

May 18, 1992

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
80 Swan Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

Mr. Scott MacLeod
Weiss Associates
5500 Shellmound Street
Emeryville, CA 94608-2411

RE: SHELL SERVICE STATION, 1155 PORTOLA AVENUE, LIVERMORE

Dear Mr. MacLeod:

The Department is in receipt of the May 14, 1992 Weiss Associates (WA) work plan submitted to address the requirement for further assessment of the subject site following an unauthorized release from the former waste oil underground storage tank (UST).

As was discussed this afternoon with Mr. Theisen and yourself, the May 14 work plan, as submitted, is not accepted. The cited work plan does not adequately address the San Francisco Bay Regional Water Quality Control Board's (RWQCB) minimum technical requirements for a preliminary site assessment (PSA) proposal. PSAs must include the installation of at least one "permanent" ground water monitoring well located within 10 feet of and in the confirmed downgradient position from the subject UST pit. Such wells are then monitored over a period of time to substantiate whether or not an unauthorized release has impacted ground water beneath the site.

The cited May 14 work plan proposes not to install and monitor a permanent well point, but rather to advance a single boring through the former UST pit to ground water. From this boring a ground water sample would be collected on a one-time basis. Should target compounds be below laboratory detection limits, WA proposes to request case closure.

As we further discussed, any proposal not meeting the RWQCB's minimum requirements will not be approved by this Department, unless the RWQCB should decide otherwise. The scope of such PSA proposals is summarized in the attached Appendix A.

Mr. Scott MacLeod
RE: Shell Station, 1155 Portola Ave., Livermore
May 18, 1992
Page 2 of 2

Please submit a PSA proposal meeting the published RWQCB minimum requirements within 15 days, or by June 2, 1992. PSA proposals not meeting the RWQCB minimum requirements must be accompanied by a letter from the RWQCB accepting the modified plan.

Please contact Mr. Eddie So of the RWQCB (510/464-1255) or myself (510/271-4320) should have any questions.

Sincerely,



Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

enclosure

cc: Rafat A. Shahid, Assistant Agency Director, Environmental Health
Gil Jensen, Alameda County District Attorney's Office
Eddie So, RWQCB
Howard Hatayama, DHS
Danielle Stefani, Livermore Fire Department
Joseph Theisen, Weiss Associates
file

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



R02566

✓ R01054

RAFAT A. SHAHID, Assistant Agency Director

April 6, 1992

Mr. Kurt Miller
Shell Oil Company
P.O. Box 5278
Concord, CA 94520

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
80 Swan Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

RE: SHELL SERVICE STATION, 1155 PORTOLA AVENUE, LIVERMORE

Dear Mr. Miller:

The Department is in receipt of the April 2, 1992 Weiss Associates (WA) response to the February 18, 1992 request from this office for submittal of a preliminary site assessment (PSA) proposal. The cited PSA proposal was to be designed to investigate the unauthorized release from a waste oil underground storage tank (UST) previously located at this site. Our review of WA's response, in addition to the previous PSA request, was performed in context with the August 1991 Tri-Regional Staff Recommendations for the Initial Evaluation and Investigation of Underground Tanks, the SWRCB LUFT field manual, and Article 11 of Title 23, California Code of Regulations (CCR).

As articulated in the cited February 18 correspondence, a confirmed unauthorized release from the former waste oil tank was documented during closure activities occurring March 1, 1989. Evidence of this unauthorized release include: holes in the tank, the observation of discolored soil in the walls and floor of the excavation, hydrocarbon odors, and elevated concentrations of petroleum compounds (1700 ppm TPH-D; 4500 ppm TOG) found in samples collected from stockpiled soil removed from the excavation during closure.

These observations and sample analyses results corroborate with those of an earlier investigation performed by EMCON Associates during 1986, the details of which were discussed previously in the February 18 correspondence. Although it may appear that soil contamination may have been removed to a significant extent following excavation of the UST pit during closure, and that WA is of the opinion that the excavation "probably" removed impacted soil identified during the EMCON investigation, the impact this confirmed release may have had on shallow ground water underlying the site has yet to be investigated.

The cited Tri-Regional guidance document requires that the extent of both soil and ground water contamination be investigated, as does Article 11, 23CCR. It is not adequate to speculate that ground water has not been affected by this confirmed release without producing hard data supporting your position, achieved only through the installation, sampling, and monitoring of wells appropriately located in the confirmed downgradient direction from the contaminant source.

Mr. Kurt Miller
RE: 1155 Portola Avenue, Livermore
April 6, 1992
Page 2 of 2

The need for ground water monitoring is particularly true for those sites located in shallow ground water environments (depth < 50 ') comprised of heterogeneous sediments, as is found at the subject site. Hence, closure of this site will not occur without such a ground water investigation.

The PSA work plan is due for submittal within 15 days of the date of this letter, or by April 21, 1992.

Please be reminded that this is a formal request for technical reports pursuant to California Water Code Section 13267 (b). Failure to respond or a late response could result in the referral of this case to the RWQCB for enforcement, possibly subjecting the responsible party to civil penalties to a maximum of \$1,000 per day. Any extensions of the stated deadlines, or modifications of the required tasks, must be confirmed in writing by either this agency or the RWQCB.

Should you have any questions about the content of this letter, please call me at 510/271-4320, or Mr. Eddie So of the RWQCB at 510/464-1255.

Sincerely,



Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

enclosure

cc: Rafat A. Shahid, Assistant Agency Director, Environmental Health
Edgar Howell, Chief, Hazardous Materials Division
Gil Jensen, Alameda County District Attorney's Office
Eddie So, RWQCB
Howard Hatayama, DHS
Danielle Stefani, Livermore Fire Department
file

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



R02566

✓R01054

RAFAT A. SHAHID, Assistant Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
80 Swan Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

LOP Site # 3609

February 18, 1992

Mr. Kurt Miller
Shell Oil Company
P.O. Box 5278
Concord, CA 94520

RE: SHELL SERVICE STATION, 1155 PORTOLA AVENUE, LIVERMORE

Dear Mr. Miller:

A recent review of documents associated with the March 1989 closure of one (1) 550 gallon waste oil underground storage tank (UST) from the referenced Livermore site has been completed by the Department of Environmental Health, Hazardous Materials Division. Documents reviewed include, among others, the following:

- o October 5, 1989 Weiss Associates (WA) letter report
- o August 23, 1989 Weiss Associates letter report, revised September 6, 1989
- o UST Unauthorized Leak Report, April 20, 1989
- o Alameda County Department of Environmental Health (ACDEH) correspondence, April 20, 1992
- o March 9, 1989 Crosby and Overton (CO) soil sampling report
- o March 1, 1989 ACDEH field log

As presented in the cited Weiss Associates (WA) reports, a previous study conducted during 1986 by EMCON Associates identified elevated concentrations of petroleum-based contaminants in soil collected from one of five borings advanced at this site. In the sample collected at a depth of 1-3 feet from boring S-A, advanced immediately southwest of the former waste oil tank, concentrations of Stoddard solvents (170 ppm), and semi- and non-volatile fuel hydrocarbons (14,000 ppm) were detected. A sample collected from this boring at a depth of 7-8.5 feet below grade exhibited semi- and non-volatile fuel hydrocarbons at a concentration of 27,000 ppm. This boring was terminated at a depth of 20 feet below grade. Ground water was not encountered in this boring; however, ground water was encountered in boring S-C, advanced through the fuel UST backfill, at a depth below grade of 29 feet.

Mr. Kurt Miller
RE: Shell Station, 1155 Portola Avenue, Livermore
February 18, 1992
Page 2 of 4

The cited WA reports, by incorporating the cited March 9, 1989 Crosby and Overton soil sampling report, further document observations and the results of soil sample analyses associated with the waste oil UST closure. These reports indicate that many through-going holes up to 1/2 inch in diameter were observed. Hydrocarbon odors and staining were also observed in the soils comprising the walls and floor of the excavation, and in native materials previously excavated from the UST pit. Such observations concur with those of the ACDEH inspector at the site during UST closure.

A soil sample (T-2, 7-9') collected from below the UST was analyzed for total petroleum hydrocarbons as diesel (TPH-D), total oil and grease (TOG), volatile organic compounds (VOC - Method 8240), and total lead. All analyses were nondetectable with the exception of total lead, detected at a concentration of 7.9 ppm. A sample of native soil backfill (T-1) was also analyzed for semi-volatile organic compounds (SVOC - Method 8270), and soluble lead, in addition to TPH-D, TOG, and VOC. TPH-D was detected at 1,700 ppm; TOG, 4,500 ppm; total lead, 131 ppm; soluble lead, 2.79 mg/l; and slight concentrations of the fuel VOCs benzene, toluene, ethylbenzene, and xylene, with a summed total concentration of 2.8 ppm. Other VOCs were also detected, including 1-ethyl-3-methylbenzene, 1,3,5-trimethylbenzene, among others. Several specific SVOCs were also detected, totalling 31.8 ppm. Such SVOCs include the compounds naphthalene, 2-methylnaphthalene, decane, undecane, pentadecane, and 1,2,4-trimethylbenzene, among several others.

The San Francisco Bay Regional Water Quality Control Board (RWQCB) requires additional environmental investigations to be performed at those sites where a confirmed release has occurred. The observation of holes in the subject UST is one of the recognized indicators of a confirmed release, as reflected by the Underground Storage Tank Unauthorized Release (Leak) report filed April 20, 1989. Further, soil sample results from the noted EMCON boring and samples collected at the time of UST closure further document that a release has occurred.

A result of the unauthorized release at this site, further investigation is required. The purpose of this investigation is to determine the lateral and vertical extent, and severity, of latent soil and ground water contamination which may have resulted from the release at this site.

Such an investigation shall be in the form of a Preliminary Site Assessment, or PSA. 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 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.

Mr. Kurt Miller
RE: Shell Station, 1155 Portola Avenue, Livermore
February 18, 1992
Page 3 of 4

In order to proceed with a site investigation, you should obtain professional services of a reputable environmental consultant. Your responsibility is to have the consultant submit for review a proposal outlining planned activities pertinent to meeting the criteria broadly outlined in this letter and the attached Appendix A.

This Department will oversee the assessment and remediation of your site. Our oversight will include the review of and comment on work proposals and technical guidance on appropriate investigative approaches and monitoring schedules. The issuance of well drilling permits, however, will be through the Alameda County Flood Control and Water Conservation District, Zone 7, in Pleasanton. The RWQCB may choose to take over as lead agency if it is determined following the completion of the initial assessment that there has been a substantial impact to ground water.

The PSA proposal is due within 45 days of the date of this letter, or by April 3, 1992. Once the proposal is approved, field work should commence within 60 days. A report must be submitted 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 (i.e., May 1, August 1, November 1, and February 1).

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.
- o Recommendations or plans for additional investigative work of remediation

All reports and proposals must be submitted under seal of a California-Registered Geologist, -Certified Engineering Geologist, or -Registered Civil Engineer. Please include a statement of qualifications for each lead professional involved with this project.

Mr. Kurt Miller
RE: Shell Station, 1155 Portola Avenue, Livermore
February 18, 1992
Page 4 of 4

Please be advised that this is a formal request for technical reports pursuant to California Water Code Section 13267 (b). Failure to respond or a late response could result in the referral of this case to the RWQCB for enforcement, possibly subjecting the responsible party to civil penalties to a maximum of \$1,000 per day. Any extensions of the stated deadlines, or modifications of the required tasks, must be confirmed in writing by either this agency or the RWQCB.

Should you have any questions about the content of this letter, please call me at 510/271-4320.

Sincerely,



Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

enclosure

cc: Rafat A. Shahid, Assistant Agency Director, Environmental Health
Edgar Howell, Chief, Hazardous Materials Division
Gil Jensen, Alameda County District Attorney's Office
Lester Feldman, RWQCB
Howard Hatayama, DHS
Danielle Stefani, Livermore Fire Department
file

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



R02566
✓ R01054

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

April 16, 1990

Shell Oil Company
P.O. Box 4023
Concord, CA 95424

Attn: Lisa Foster & Jeff Hill

RE: Underground storage tank permitting
Earl Andrews Shell, 1155 Portola Ave., Livermore, CA
94550

Dear Ms. Foster:

This letter is in regards to the request for information pertaining to quarterly report records from the 1155 Portola Ave Shell station. We received the quarterly reports we had requested from Mr. Andrews. As a reminder please be aware that you are required to report on your quarterly report form any daily inventory swings which exceed the allowable limit. Enclosed is a 5 year permit to operate.

If you have any questions please contact Paul Smith with our department at 271-4320.

Sincerely,

Edgar B. Howell III, Chief,
Hazardous Materials Division

EBH:PMS:pms

Enclosures (2)

cc: Jeff Hill, Shell Area Manager
Earl Andrews, Dealer

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



R02566
VR01054

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

March 30, 1990

Shell Oil Company
P.O. Box 4023
Concord, CA 95424

Attn: Lisa Foster & Ken Lottinger

RE: Underground storage tank permit requirements
Ed Andrews Shell 1155 Portola Ave., Livermore, CA 94550

Dear Ms. Foster

This letter is in regards to the inspection which was done at your facility on February 1, 1990 by Paul Smith of our department. The inspection was performed to evaluate whether the conditions for the 5 year underground storage permit were being met prior to its issuance. The following items need to be addressed in order to come into compliance with Title 23 of the California Code of Regulations:

Section 2644(e&f) requires that the owner or operator of an underground storage tank shall on a quarterly basis send copies of tank monitoring reports. Please send to our office copies of the following quarterly reports:

January- March	1989
April-June	1989
July-September	1989
October-Dec	1989
Jan-March	1990

A 5 year underground storage permit will be issued upon receipt of the information requested above.

Shell Oil Company
March 21, 1990
Page 2 of 2

Please comply with the above regulations within 10 days of the receipt of this letter. If you have any questions please direct them to Paul Smith with our department at 271-4320.

Sincerely,



Edgar B. Howell III, Chief,
Hazardous Materials Division

EBH:PMS:pms

Enclosures (2)

cc: Gil Jensen, Alameda County District Attorney, Consumer and
Environmental Protection Agency
Jeff Hill, Shell Area Manager
Ed Andrews, Shell Dealer

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



R01054

DEPARTMENT OF ENVIRONMENTAL HEALTH (12)
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

June 24, 1989

Mr. Joseph P. Theisen, Project Geologist
Weiss Associates
2938 McClure St.
Oakland, CA 94609

Dear Mr. Theisen:

In response to your request for a file search of our records for the Shell Oil Tank Closures for the following locations, the following information is presented to you:

ALAMEDA

2160 Otis Dr.

(R02433)
(R02893)

No records of tank removal available in our files with the exception of a letter from Petroleum Engineering Inc. to T. Gerow of Alameda County Health Care Services for installation plans to replace waste oil tanks.

1601 Webster

(R01042)
(R02745)

Same information

HAYWARD

1097 W. Tennyson

No record of tank pull recommend you contact Hayward Fire Dept.

LIVERMORE

(R0769)
(R02525) 318 S. Livermore

No record of tank pull

1155 Portola

(R01054)
(R02566)

Inspection dated 9/27/88 requested tank closure plan for waste oil tank. No plan received to date

Mr. Joseph P. Theisen
Weiss Associates
Oakland, CA 94609
June 24, 1989
Pages 2 of 2

809 E. Stanley No record of tank pull

(R02524)

SAN LEANDRO

30367) 1784 - 150th No record of tank pull

R0156) 1285 Bancroft No record of tank pull, recommend you contact the
San Leandro Fire Dept.

OAKLAND

510 E. 14th St. No record of tank pull

(R0349) 7915 E. 14th St. No record of tank pull

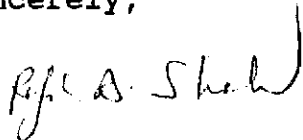
If the above tanks were pulled, we would request that you provide us with copies of any lab results from soil samples taken, manifest of the tanks or contaminated soil removed, etc.

This letter is limited to information available to this department and does not reflect other information, which may be accessible to other agencies or businesses involved with these properties.

Please find enclosed, a copy of the invoice sent to our Billing Unit, Alameda County Environmental Health Dept.

If you have any questions, please call Edgar Howell, Supervising Hazardous Materials Specialist, at (415) 271-4320.

Sincerely,



Rafat A. Shahid, Chief,
Hazardous Materials Program

RAS:EH:mnc

cc: Edgar Howell, Alameda County Hazardous Materials Program
Files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



R02566

✓ R01054

20 April, 1989

Ray Newsome
Shell Oil Company
P.O. Box 4023
Concord, Ca. 94524

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

Subject: Underground Storage Tank Removal at 1155 Portola Avenue,
Livermore.

Dear Mr. Newsome:

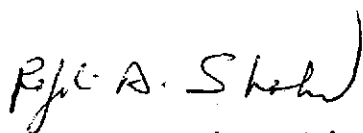
Our office has received and reviewed a report dated 9 March, 1989, from Dave Sadoff, of Crosby and Overton, Incorporated, in regards to this project. It is the opinion of the Alameda County Department of Environmental Health, Hazardous Materials Division, that the following actions must now be taken.

- 1) Total Oil and Grease contamination of up to 4,500 parts per million were detected in the soil which had been excavated from the tank pit. This soil will require disposal as a hazardous waste and a copy of the hazardous waste manifest will have to be submitted to our office for inclusion into our files.
- 2) Samples collected from the bottom of the tank pit were free of contamination, indicating that the soil excavation conducted has been sufficiently thorough. Further excavation will not be required.
- 3) Guidelines established by the San Francisco Bay Regional Water Quality Control Board require that a groundwater monitoring well be established within ten feet of the former tank location and oriented in a downgradient direction relative to groundwater flow. The guidelines specify that the data from three wells must be used determine groundwater flow direction. These wells are to be installed under the direction of a registered engineer/geologist with all boring logs and derived data to be submitted to this office for review.
- 4) Eight fifty-five gallon drums containing tank contents and rinsate were observed on-site during the tank removal. Please submit a copy of the hazardous waste manifests for these drums and the tank to our office.

Ray Newsome
Shell Oil Company
P.O. Box 4023
Concord, Ca. 94524
20 April 1989
Page 2 of 2.

If you have any questions or require further clarification concerning the actions which need to be taken in regards to this project, please contact, Dennis Byrne, Hazardous Materials Specialist, at (415) 271-4320.

Sincerely,



Rafat A. Shahid, Chief,
Hazardous Materials Division

RAS:DB

cc: Lisa McCann, SFBRWQCB
Dave Sadoff, Crosby and Overton Incorporated
8430 Amelia Street
Oakland, Ca. 94621

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

J. MICHAEL LEAHY, Agency Director



R02566

V R01054

470-27th Street, Third Floor
Oakland, California 94612
(415)

June 14, 1988

Kathleen G. Gillmore
Senior Attorney
Shell Oil Company
One Shell Plaza
P.O. Box 2463
Houston, TX 77252-2463

Dear Ms. Gillmore

In response to your request of June 8, 1988, please find a list of Shell Service Stations contacted in writing, by our office, on April 30, 1987.

A copy of our letter to the listed service stations is attached. We received one response from the shell service stations located at 1155 Portola, Livermore. The balance of (22) twenty-two service stations listed, never responded.

Your expressed interest to cooperate with this department is very much appreciated.

Very truly yours,

A handwritten signature in cursive script that reads "Rafat A. Shahid".

Rafat A. Shahid, Chief,
Hazardous Materials Division

RAS:mnc

Attachments (2)

cc: with attachments

Gil Jensen, Alameda County District Attorney, Consumer &
Environmental Protection Agency
Mark Thompson, Alameda County District Attorney, Consumer &
Environmental Protection Agency