RO [redacted]
156

Wickham, Jerry, Env. Health

To: Friel, Ana

Cc: denis.l.brown@shell.com

Subject: RE: 1285 Bancroft, San Leandro - June 15 correspondence not received by CRA until today.

Hi Ana,

My June 15 letter mistakenly had the old Sonoma address for CRA. Will try to purge the old address on future correspondence. I understand the potential for schedule extensions on this case given the delay in receiving my letter. Just let me know if that becomes the case.

Regards,
Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
510-567-6791 phone
510-337-9335 fax
jerry.wickham@acgov.org

From: Friel, Ana [mailto:afriel@craworld.com]
Sent: Tuesday, August 14, 2007 9:22 AM
To: Wickham, Jerry, Env. Health
Cc: denis.l.brown@shell.com
Subject: 1285 Bancroft, San Leandro - June 15 correspondence not received by CRA until today.
Importance: High

Hi Jerry,

CRA had not received a response from you for the above-referenced site (but we did receive the one for the other San Leandro site dated early July). I've been waiting to get your work plan approval to initiate the work, but hadn't seen it. Since it had been so long, I started writing to you today to ask when you would send that, but then I decided to have our clerical people check with Shell to see if they received it, and sure enough, your letter dated June 15, 2007 had been received by them, but not by CRA. I don't know if post office didn't forward some mail (which is a scary thought), or, if it slipped through our clerical staff and is missing (also, not a good thing).

So, I just received your June 15 letter today, and will begin the right of entry agreements and scheduling field work right away. You gave us a long period of time for implementation (to accommodate the ROEs), and I'll do what I can to get the work completed in order to meet the November 9 report due date – but wanted to make you aware that CRA is just now beginning to work on this. I guess I should have checked on this earlier, because it really wasn't like you to respond to one and not the other. I am really sorry about this.

Please make a note that all mail to us should no longer be addressed to Cambria at 270 Perkins Street in Sonoma, but should be going to:
Conestoga-Rovers & Associates at 19449 Riverside Drive, Suite 230, Sonoma, CA 95476

Let me know if any questions.

Thanks.

Ana Friel, PG
Conestoga-Rovers & Associates

408 7th Street,Suite A, Eureka, CA 95501

p (707) 268-3812
f (707) 268-8180
c (707) 845-4066
afriel@craworld.com

Conestoga-Rovers & Associates has acquired the former Cambria Environmental Technology
Visit us at www.craworld.com

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

F

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

June 15, 2007

Mr. Denis Brown
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

Subject: Fuel Leak Case No. RO0000156 and Geotracker Global ID T0600101224, Shell#13-6017, 1285 Bancroft Avenue, San Leandro, CA 94577

Dear Mr. Brown:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site including the recently submitted document entitled, "Site Investigation Work Plan," dated May 22, 2007. The Work Plan proposes performing a CPT investigation to 90 feet bgs and shallow soil sampling near the UST complex. The proposed scope of work may be implemented provided that the technical comments below are addressed and incorporated during the proposed field investigation. Submittal of a revised Work Plan is not required unless an alternate scope of work outside that described in the Work Plan and technical comments below is proposed.

We request that you address the following technical comments, perform the proposed work, and send us the reports described below.

TECHNICAL COMMENTS

1. **Soil Sampling in Shallow Soil Borings.** The Work Plan proposes continuous soil sampling in soil borings SB-13 through SB-16. Soil samples are to be visually logged in the field for soil type, color, moisture content, odor, and other observed features and screened with a photoionization detector. Soil samples are to be collected for laboratory analysis at any interval where visible staining, odor, or elevated PID readings are observed. If visible staining, odor, or elevated PID readings are observed, a sufficient number of soil samples must be collected to characterize the vertical interval over which the contamination occurs. If no visible soil staining, odor, or elevated PID readings are observed in the soil boring, we request that a minimum of three soil samples be collected for laboratory analyses from each soil boring. If no visible soil staining, odor, or elevated PID readings are observed, the uppermost sample is to be collected at a depth of 10 feet bgs and the remaining two soil samples are to be collected at lithologic changes observed below 10 feet bgs or are to be collected at depths of 20 and 30 feet bgs if no significant lithologic changes are observed. Please present boring logs, screening results, and analytical data for soil samples in the Site Investigation Report requested below.

2. **Grab Groundwater Sampling in CPT Borings.** The proposed method for grab groundwater sampling is acceptable. Please review the hydrogeologic cross sections and CPT logs in selecting the vertical intervals for depth-discrete groundwater sampling.

3. **Proposed Laboratory Analyses.** The proposed laboratory analyses for soil samples are acceptable. In addition to the proposed analyses for groundwater samples, we request that the groundwater samples be analyzed for a full target list of chlorinated solvents using EPA Method 524.2/624 (8260). Please present results from the soil and groundwater analyses in the Site Investigation Report requested below.

TECHNICAL REPORT REQUEST

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

- **November 9, 2007** – Site Investigation Report
- **30 days following the end of each quarter** – Quarterly Monitoring 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

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) now 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.

If you have any questions, please call me at (510) 567-6791.

Sincerely,

Jerry Wickham
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Ana Friel
Cambria Environmental Technology, Inc.
270 Perkins Street
Sonoma, CA 95476

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

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

F

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

March 9, 2007

Mr. Denis Brown
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

Subject: Fuel Leak Case No. RO0000156 and Geotracker Global ID T0600101224, Shell#13-6017, 1285 Bancroft Avenue, San Leandro, CA

Dear Mr. Brown:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site including the recently submitted report entitled, "Agency Response and Proposed Future Actions," dated February 9, 2007. The report proposes performing a CPT investigation to 90 feet bgs and shallow soil sampling near the UST complex. The proposal to conduct additional investigation near the USTs to evaluate source area remediation is acceptable. We request that you present detailed plans for the investigation in the Work Plan requested below.

The recommendation to continue quarterly groundwater monitoring and to analyze groundwater samples for one hydrologic cycle is also acceptable. Please present the results in the groundwater monitoring reports requested below. ACEH appreciates the hydrogeologic cross sections presented in the "Agency Response and Proposed Future Actions," report. As additional data are collected near the USTs, please update these cross sections and include them in future reports as appropriate.

We request that you perform the proposed work and send us the reports described below.

TECHNICAL REPORT REQUEST

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

- **May 23, 2007** – Work Plan
- **30 days following the end of each quarter** – Quarterly Monitoring 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

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) now 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.

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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) 567-6791.

Sincerely,

Jerry Wickham
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Ana Friel
Cambria Environmental Technology, Inc.
270 Perkins Street
Sonoma, CA 95476

John Camp
City of San Leandro
Environmental Services Division
Civic Center
835 East 14th Street
San Leandro, CA 94577

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

RO 156

Wickham, Jerry, Env. Health

From: Wickham, Jerry, Env. Health
Sent: Wednesday, February 07, 2007 5:17 PM
To: 'Friel, Ana'
Cc: denis.l.brown@shell.com
Subject: RE: San Leandro --- groundwater question...

Hi Ana,

I don't have any water level data readily available prior to 1990. Water levels in 1990 at the 1784 150th site were about the same as present, about 25 feet bgs. Water levels in 1990 at the 1285 Bancroft site were about 43 feet bgs. In a very general sense, water levels have risen historically over the last several decades along the East Bay Plain due to decreased usage of groundwater and greater recharge from leaking water and sewer lines. Attached is a USGS report on the Hydrogeology of the San Leandro and San Lorenzo area.

Regards,
Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
510-567-6791 phone
510-337-9335 fax
jerry.wickham@acgov.org

From: Friel, Ana [mailto:afriel@cambria-env.com]
Sent: Wednesday, February 07, 2007 3:55 PM
To: Wickham, Jerry, Env. Health
Cc: denis.l.brown@shell.com
Subject: San Leandro --- groundwater question...

Hi Jerry,

I'm working madly on these two San Leandro sites (1285 Bancroft and 1784 15th Ave). Do you know if the groundwater in San Leandro used to be significantly lower than the depths we've monitored here over the past 10 years? We're seeing water table ranging between 20-30 fbg at both sites. Do you know if there's any historical data showing that the depth to water used to be consistently below 30 fbg in this area?

Thanks.

Ana Friel, PG
Associate Geologist
Cambria Environmental Technology, Inc.

408 7th Street,Suite A, Eureka, CA 95501
afriel@cambria-env.com
p (707) 268-3812
f (707) 268-8180
c (707) 845-4066

RO156

Wickham, Jerry, Env. Health

To: Friel, Ana

Cc: denis.l.brown@shell.com

Subject: RE: Request for 30-day Extension; Shell Station @ 1285 Bancroft, San Leandro (RO 156) (Shell SAP# 136017)

Hi Ana,

The schedule for report submittal for case RO156 1285 Bancroft in San Leandro is extended to February 9, 2007.

Regards,
Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
510-567-6791 phone
510-337-9335 fax
jerry.wickham@acgov.org

From: Friel, Ana [mailto:afriel@cambria-env.com]
Sent: Monday, January 08, 2007 3:55 PM
To: Wickham, Jerry, Env. Health
Cc: denis.l.brown@shell.com
Subject: Request for 30-day Extension; Shell Station @ 1285 Bancroft, San Leandro (RO 156) (Shell SAP# 136017)
Importance: High

Hi Jerry,

I left you a voice message about this today, but wanted to have an email waiting for you upon your return.

In your letter dated October 20, 2006, you requested a submittal addressing the technical comments and including cross sections and recommendations be submitted by January 10, 2007. Under normal circumstances, this timeframe would have been adequate; however, there have been a number of circumstances which has caused the delay of this submittal, and it will not be ready for issue by January 10, 2007.

My draft will be forwarded to Shell and to their research group in Houston by the end of this week (hopefully Wednesday). To allow for their adequate review of this submittal, and for Cambria to make appropriate edits upon receipt of their comments, we respectfully **request a 30-day extension be granted (February 9, 2007).**

I apologize for this late request. Please contact me or Denis Brown of Shell (707-865-0251) with any questions or concerns. We appreciate your consideration of this request.

Ana Friel, PG
Associate Geologist
Cambria Environmental Technology, Inc.

408 7th Street,Suite A, Eureka, CA 95501
afriel@cambria-env.com
p (707) 268-3812
f (707) 268-8180
c (707) 845-4066

ALAMEDA COUNTY
HEALTH CARE SERVICES
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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 21, 2006

Mr. Denis Brown
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

Subject: Fuel Leak Case No. [redacted], Shell#13-6017, 1285 Bancroft Avenue, San Leandro, CA – Schedule Clarification

Dear Mr. Brown:

Please disregard Alameda County Environmental Health (ACEH) correspondence dated November 16, 2006 regarding the schedule for report submittal for the above referenced site. That November 16, 2006 correspondence incorrectly referenced the 1285 Bancroft Avenue site in San Leandro. The schedule for report submittal is unchanged from that requested in our October 16, 2006 correspondence, which is repeated for clarification in the Technical Report Request below.

TECHNICAL REPORT REQUEST

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

- **January 10, 2007** – Work Plan for Interim Remediation including Hydrogeologic Cross Sections and Recommendations
- **30 days following the end of each quarter** – Quarterly Monitoring 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

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) now 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.

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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) 567-6791.

Sincerely,

Jerry Wickham
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Ana Friel
Cambria Environmental Technology, Inc.
270 Perkins Street
Sonoma, CA 95476

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

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

7

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. Denis Brown
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

Subject: Fuel Leak Case No. [redacted], Shell#13-6017, 1285 Bancroft Avenue, San Leandro, CA

Dear Mr. Brown:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site including the document entitled "Groundwater Monitoring and Remediation Report – Third Quarter 2006," dated November 15, 2006. The "Groundwater Monitoring and Remediation Report – Third Quarter 2006," presents the results of ongoing quarterly groundwater monitoring and proposes submittal of hydrogeologic cross sections and recommendations of future actions by February 15, 2007. This schedule extension was also discusses and verbally approved by ACEH in a telephone conversation on November 8, 2006.

To confirm the schedule for report submittal, we request that you perform the proposed work and send us the reports described below.

TECHNICAL REPORT REQUEST

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

- **45 days following the end of each quarter** – Quarterly Monitoring and Remediation Reports
- **February 15, 2007** – Hydrogeologic Cross Sections and Recommendations for Future Actions

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

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PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

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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

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If you have any questions, please call me at (510) 567-6791.

Sincerely,

Jerry Wickham
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Ana Friel
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270 Perkins Street
Sonoma, CA 95476

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

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

7

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(510) 567-6700
FAX (510) 337-9335

October 20, 2006

Mr. Denis Brown
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

Subject: Fuel Leak Case No. [redacted] Shell#13-6017, 1285 Bancroft Avenue, San Leandro, CA

Dear Mr. Brown:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site including the documents entitled, "Underground Storage Tank Removal Report," dated September 21, 2006 and "Groundwater Monitoring Report – Third Quarter 2006," dated September 8, 2006. The "Underground Storage Tank Removal Report," presents results from the removal of a 550-gallon waste oil tank on July 19, 2006. The "Groundwater Monitoring Report – Third Quarter 2006," presents the results of ongoing quarterly groundwater monitoring.

Elevated concentrations of TPHg, MTBE, and TBA continue to be detected in groundwater from well MW-5, which is immediately west of the USTs and well MW-6, which is approximately 65 feet west (downgradient) of the USTs. During the most recent groundwater sampling event, TPHg, MTBE, and TBA were detected in groundwater from well MW-5 at concentrations of 134,000, 1,160, and 868 micrograms per liter (µg/L), respectively. TPHg and MTBE were detected at concentrations of 1,200,000 and 6,0000 µg/L, respectively, in a grab groundwater sample collected in August 2003 from soil boring SB-7, which is located approximately 20 feet southwest of the USTs and 25 feet southeast of well MW-5. Dual-phase vacuum extraction, which was conducted monthly in wells MW-5 and MW-6 from November 2000 to January 2005, does not appear to have significantly reduced fuel hydrocarbon concentrations in the source area west of the USTs. The highly elevated concentrations of fuel hydrocarbons that continue to be detected in groundwater within the area southwest of the USTs indicate that a significant contaminant source remains at the site. Numerous water-producing wells are located within 2,000 feet of the site although no active wells appear to currently be affected by the fuel release.

Based on the continued detection of elevated concentrations of dissolved phase hydrocarbons in groundwater, more aggressive remediation of the source area is required. We request that you submit a work plan for interim remediation of the area of the USTs **by January 10, 2007**. Please address the following technical comments, perform the proposed work, and send us the reports described below.

TECHNICAL COMMENTS

1. **Site Conceptual Model.** The "Groundwater Monitoring Report – Third Quarter 2006," indicates that a site conceptual model will be submitted as part of the proposed activities for the next quarter. A SCM was previously submitted in a report entitled. "Soil and Water Investigation Report, Work Plan, and Site Conceptual Model," dated November 3, 2003 and prepared by Cambria Environmental Technology, Inc. Update and revision of the SCM within the Work Plan for Interim Remediation is acceptable.

2. **Interim Remediation.** Please present plans for interim remediation of the contaminant source area beneath and adjacent to the USTs. Please review all existing data and the SCM in proposing interim remediation for the site.

3. **Waste Oil Tank.** Based on the results presented in the "Underground Storage Tank Removal Report," dated September 8, 2006, we concur that no further investigation is currently required for waste oil constituents. However, please see technical comment 7 below regarding the source of volatile organic compounds in groundwater.

4. **Vertical Delineation.** Please review the adequacy of existing soil and groundwater data to characterize the vertical extent of contamination. Specifically, the extent of contamination within the lower gravelly sand unit encountered from 53 to 61 feet bgs in boring BH-B (MW-2) is to be considered. The screen interval for monitoring well MW-2 extends from 40 to 60 feet bgs and appears to monitor this lower gravelly sand, which is described in the boring logs as a high permeability soil with hydrocarbon sheen. However, no monitoring wells downgradient from the USTs appear to monitor this gravelly sand. Please see technical comment 5 below regarding hydrogeologic cross sections, which will aid in evaluating the adequacy of the data collected to date. Based on your evaluation of the adequacy of existing data to assess the vertical extent of contamination and the adequacy of the monitoring well network to monitor the lower gravelly sand encountered in boring BH-B, present plans in the Work Plan requested below for any additional site characterization required to complete vertical delineation.

5. **Hydrogeologic Cross Sections.** We request that you prepare a minimum of two hydrogeologic cross sections for the site. One of the cross sections should extend from well MW-2 through the UST tank pit, well MW-5, and MW-6 to well MW-12. The cross sections are to depict the lateral and vertical extent of soil layers encountered, the location of the tank pit, where groundwater was first encountered in borings and the static water levels, screen intervals for monitoring wells and grab groundwater samples, observations of free product, staining, and odor, and analytical results for soil and groundwater samples. Please present the cross sections in the Work Plan requested below.

6. **Quarterly Groundwater Monitoring.** Please continue quarterly groundwater monitoring for the site and present the results in the Quarterly Monitoring Reports requested below.

7. **Volatile Organic Compounds (VOCs) in Groundwater.** Tetrachloroethene (PCE) was detected in soil samples collected from boring BH-A, which was installed in 1990 in response to a release from a former waste oil tank. PCE and chloroform were subsequently detected in groundwater samples collected from wells MW-1, MW-2, and MW-3 from 1990 through 1995. Groundwater samples collected since 1995 do not appear to have been analyzed for chlorinated solvents. We request that you analyze groundwater samples from each monitoring well for chlorinated solvents by EPA Method 8260 during the next quarterly groundwater monitoring event. Based on the results, please present a recommendation regarding the need for future sampling and analyses for VOCs.

TECHNICAL REPORT REQUEST

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

- **January 10, 2007** – Work Plan for Interim Remediation including Hydrogeologic Cross Sections and Recommendations

- **30 days following the end of each quarter** – Quarterly Monitoring 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

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) now 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.

If you have any questions, please call me at (510) 567-6791.

Sincerely,

Jerry Wickham
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Ana Friel
Cambria Environmental Technology, Inc.
270 Perkins Street
Sonoma, CA 95476

Aubrey Cool
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608

John Camp
City of San Leandro
Environmental Services Division
Civic Center
835 East 14th Street
San Leandro, CA 94577

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

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

EMERGENCY ☐ YES ☒ NO — HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? ☐ YES ☒ NO

REPORT DATE: 07/28/06 (M M D D Y Y) — CASE #:

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 SAFETY CODE.
SIGNED _____ DATE _____

REPORTED BY
NAME OF INDIVIDUAL FILING REPORT: Tim Woodson
PHONE: (925) 766-3494
SIGNATURE: Tim Woodson for SOPUS
REPRESENTING ☒ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ LOCAL AGENCY ☐ OTHER _____
COMPANY OR AGENCY NAME: Shell Oil Products US
ADDRESS (STREET): 20945 S. Wilmington Avenue — CITY: Carson — STATE: CA — ZIP: 90810

RESPONSIBLE PARTY
NAME: Shell Oil Products US ☐ UNKNOWN
CONTACT PERSON: Denis Brown
PHONE: (707) 865-0251
ADDRESS (STREET): 20945 S. Wilmington Avenue — CITY: Carson — STATE: CA — ZIP: 90810

SITE LOCATION
FACILITY NAME (IF APPLICABLE): Shell-branded Service Station
OPERATOR: Robert Farrell
PHONE: (510) 352-1250
ADDRESS (STREET): 1285 Bancroft Avenue — CITY: San Leandro — COUNTY: Alameda — ZIP: 94577
CROSS STREET: Estudillo Avenue

Alameda County Environmental Health AUG 01 2006

IMPLEMENTING AGENCIES
LOCAL AGENCY — AGENCY NAME: Alameda County Health Care Services Agency
CONTACT PERSON: Jerry Wickham
PHONE: (510) 567-6791
REGIONAL BOARD: San Francisco Bay
CONTACT PERSON: Cherie McCaulou
PHONE: (510) 622-2300

SUBSTANCE(S) INVOLVED
(1) NAME: Oil and grease – 64 ppm (WO-1-11) — QUANTITY LOST (GALLONS): 0 ☒ UNKNOWN
(2) Methylene chloride – 0.075 ppm (WO-1-11) ☒ UNKNOWN

DISCOVERY/ABATEMENT
DATE DISCOVERED: 07/27/06 (M M D D Y Y)
HOW DISCOVERED: ☐ INVENTORY CONTROL ☐ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☐ TANK TEST ☒ TANK REMOVAL ☐ OTHER
DATE DISCHARGE BEGAN: ☒ UNKNOWN
HAS DISCHARGE BEEN STOPPED? ☒ YES ☐ NO IF YES, DATE: 07/19/06
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
CAUSE(S): ☐ OVERFILL ☐ RUPTURE/FAILURE ☐ SPILL ☐ CORROSION ☒ UNKNOWN ☐ OTHER

CASE TYPE
CHECK ONE ONLY: ☒ UNDETERMINED ☐ SOIL ONLY ☐ GROUND WATER ☐ DRINKING WATER – (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS
CHECK ONE ONLY: ☒ NO ACTION TAKEN ☐ LEAK BEING CONFIRMED ☐ REMEDIATION PLAN ☐ PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED ☐ PRELIMINARY SITE ASSESSMENT UNDERWAY ☐ CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) ☐ POLLUTION CHARACTERIZATION ☐ POST CLEANUP MONITORING IN PROGRESS ☐ CLEANUP UNDERWAY

REMEDIAL ACTION
CHECK APPROPRIATE ACTION(S): ☐ CAP SITE (CD) ☐ CONTAINMENT BARRIER (CB) ☐ VACUUM EXTRACT (VE) ☐ EXCAVATE & DISPOSE (ED) ☐ EXCAVATE & TREAT (ET) ☐ NO ACTION REQUIRED (NA) ☒ OTHER (OT) Pending agency evaluation ☐ REMOVE FREE PRODUCT (FP) ☐ PUMP & TREAT GROUND WATER (GT) ☐ TREATMENT AT HOOKUP (HU) ☐ ENHANCED BIO DEGRADATION (IT) ☐ REPLACE SUPPLY (RS) ☐ VENT SOIL (VS)

COMMENTS
Soil concentrations were found during waste oil tank removal activities including oil and grease, TPHd, methylene chloride, chromium, lead, nickel, and zinc. Cambria Environmental Technology, Inc. notified Alameda County Health Care Services Agency on 7/27/06 at 11:40 am. Cambria left a voicemail for case worker Jerry Wickham. A report documenting the reported findings will be submitted to the agency within 60 days.

RO-156

Chu, Eva, Env. Health

From: Chu, Eva, Env. Health
Sent: Friday, December 05, 2003 7:52 AM
To: 'mmunz@cambria-env.com'
Cc: 'mderby@cambria-env.com'
Subject: RE: 1285 Bancroft, San Leandro - request for extension to commence additional investigation

Extension to Feb 17, 2003 granted. eva

-----Original Message-----
From: Melody Munz [mailto:mmunz@cambria-env.com]
Sent: Thursday, December 04, 2003 3:36 PM
To: eva chu (E-mail)
Cc: Karen Petryna (E-mail); Matt Derby (E-mail); Stuart Dalie (E-mail)
Subject: 1285 Bancroft, San Leandro - request for extension to commence additional investigation

Dear eva,

In your letter dated November 7, 2003, you request that we begin the next phase of investigation at 1285 Bancroft, San Leandro by January 13, 2004. We would like to request a one-month extension to begin the additional investigation.
Please indicate whether you concur with this request via return email to Matt Derby: mderby@cambria-env.com.

If you have any questions, please contact Matt Derby at (510) 420-3332 or by email as above.

Regards,

Melody Munz
Project Engineer

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

RO0000156

November 7, 2003

Ms. Karen Petryna
Shell Oil Products US
P.O. Box 7869
Burbank, CA 91510-7879

RE: Well Installation at 1285 Bancroft Ave, San Leandro, CA

Dear Ms. Petryna:

I have completed review of Cambria's November 2003 *Soil and Water Investigation Report, Work Plan and Site Conceptual Model* report prepared for the above referenced site. This report summarized recent activities to delineate the vertical and horizontal extent of the contaminant plume using direct push technology. Data from this investigation was used to recommend the placement of additional groundwater monitoring wells, one on-site and three off-site. In addition, soil borings are proposed to the north, to the east, and to the northwest. And the construction of the off-site irrigation well will be investigated using video equipment.

Cambria's above recommendation are acceptable with the following technical comments:

- New wells should have short (5 feet or less) screens. Data from recent investigations helped to determine the depth to MTBE in groundwater. The new wells should be screened within the contaminant plume only.

The next phase of investigation should commence within 60 days of the date of this letter, **or by January 13, 2004.** Please provide at least 72 hours advance notice of field work. If you have any questions, I can be reached at (510) 567-6762 or by email at echu@co.alameda.ca.us.

eva chu
Hazardous Materials Specialist

c: Donna Drogos
Mike Bakaldin, City of San Leandro
Melody Munz, Cambria, 5900 Hollis St, Suite A, Emeryville, CA 94608

BFshell-3

RO-156

Chu, Eva, Env. Health

From: Chu, Eva, Env. Health
Sent: Wednesday, October 22, 2003 9:24 AM
To: 'mmunz@cambria-env.com'
Subject: RE: 1285 Bancroft, San Leandro - request for extension to submit Subsurface Investigation Report

Hi Melody,

Extension granted to Nov 4, 2003 for subsurface investigation report.

eva

-----Original Message-----
From: Melody Munz [mailto:mmunz@cambria-env.com]
Sent: Monday, October 20, 2003 9:43 AM
To: 'Chu, Eva, Env. Health'
Subject: RE: 1285 Bancroft, San Leandro - request for extension to submit Subsurface Investigation Report

Dear eva,
I regret that I need to request an additional two week extension to complete this report. Please advise via return email whether you agree to an extension until November 4, 2003 to submit this report.
Regads,
Melody

-----Original Message-----
From: Chu, Eva, Env. Health [SMTP:EChu@co.alameda.ca.us]
Sent: Wednesday, October 01, 2003 7:55 AM
To: 'mmunz@cambria-env.com'
Subject: RE: 1285 Bancroft, San Leandro - request for extension to submit Subsurface Investigation Report

No problem. Extension granted to October 21, 2003.

eva

-----Original Message-----
From: Melody Munz [mailto:mmunz@cambria-env.com]
Sent: Wednesday, October 01, 2003 7:11 AM
To: eva chu (E-mail)
Subject: 1285 Bancroft, San Leandro - request for extension to submit Subsurface Investigation Report

Dear eva,

We have completed the field work proposed in Cambria's June 2, 2003 Subsurface Investigation work Plan Amendment 2 on August 7, 2003. I am writing to request an extension until October 17, 2003 to submit the associated Subsurface Investigation Report and updated Site Conceptual Model.

Please advise via return email whether you will grant this extension request.

Regards,

Melody Munz
Project Engineer
Cambria Environmental Technology, Inc.

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

RO0000156

June 6, 2003

Ms. Karen Petryna
Shell Oil Products US
P.O. Box 7869
Burbank, CA 91510-7879

RE: Work Plan Approval for 1285 Bancroft Ave, San Leandro, CA

Dear Ms. Petryna:

I have completed review of Cambria's June 2, 2003 *Subsurface Investigation Work Plan Amendment 2* report prepared for the above referenced site. The proposal to advance soil borings on-site and off-site to delineate the horizontal and vertical extent of soil and groundwater contamination is acceptable. The approved work plan should be implemented within 45 days of the date of this letter, **or by July 29, 2003.** Please provide at least 72 hours advance notice of field activities.

If you have any questions, I can be reached at (510) 567-6762 or by email at echu@co.alameda.ca.us.

eva chu
Hazardous Materials Specialist

c: Donna Drogos
Mike Bakaldin, City of San Leandro

email: Melody Munz, Cambria

BFshell-2

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

RO0000156

May 14, 2003

Ms. Karen Petryna
Shell Oil Products US
P.O. Box 7869
Burbank, CA 91510-7869

RE: Shell-branded Service Station, 1285 Bancroft Ave, San Leandro, CA

Dear Ms. Petryna:

I have completed review of the April 2003 *Subsurface Investigation Work Plan Amendment* and *Agency Response* reports both prepared by Cambria for the above referenced site. Cambria proposed to advance two offsite and one onsite soil boring to define the horizontal and vertical extent of MTBE in soil and groundwater. Below are my technical comments:

- I was not aware that depth discrete water samples could be collected using a hollow-stem auger drill rig. Please detail methodology.
- Grab groundwater samples should also be collected at changes in lithology, especially in more permeable lenses.
- Additional soil borings (2?) should be advanced to better characterize the plume. I suggest a soil boring be advanced approximately 35 feet north and another 35 feet south of proposed boring SB-2.
- One onsite boring is not adequate to characterize MTBE in the "source area". Soil borings should be advanced adjacent to the fill end of the USTs, by the north dispenser (near sample D-2B) and the south dispenser (near sample L-1) and at any location where a potential release could occur. Soil samples should be collected directly beneath the USTs and dispenser, if possible.

Please submit an addendum to the work plan that will address the above items. If you have any questions, I can be reached at (510) 567-6762 or by email at echu@co.alameda.ca.us

eva chu
Hazardous Materials Specialist

c: Donna Drogos
Mike Bakaldin, City of San Leandro
email: Melody Munz, Cambria

BFshell-1

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

February 6, 2003

Karen Petryna
Equiva Services LLC
P.O. Box 7869
Burbank, CA 91501-7869

Subject: Fuel Leak Case No. RO0000156, Shell Service Station, 1285 Bancroft Ave., San Leandro, CA;

Dear Ms. Petryna:

Alameda County Environmental Health (ACEH) staff has reviewed "Investigation Report and Risk-Based Corrective Action Analysis" dated June 27, 2001, "Subsurface Investigation Work Plan " dated October 15, 2002, and "3rd Quarter 2002 Monitoring Report" dated October 15, 2002, prepared by Cambria Environmental Technology. We request that you address the following technical comments, perform the proposed work, and send us the technical reports requested below.

TECHNICAL COMMENTS

1) Site Characterization - Up to 160,000 microgram (ug/l) Total Purgeable Petroleum Hydrocarbons (TPPH), 20,000 ug/l Benzene, and 71,000 ug/l Methyl Tertiary-Butyl Ether (MTBE), have been detected in onsite monitoring wells. Additionally, offsite wells downgradient of your former gasoline and waste oil underground storage tanks (UST). have detected up to 64,800 ug/l TPPH, 6,830 ug/l Benzene, and 24,300 ug/l MTBE. Thus, the lateral and vertical extent of your plume is not defined. To monitor the vertical range of the plume, we request that your monitoring network include depth discrete monitoring with screened intervals appropriate to the stratigraphy and plume stratification at your site. Generally, the screened intervals should not be more than 2 feet in length. Include your proposal for plume delineation in the amended workplan requested below.
2) Determining Monitoring Well Locations - We feel that it would be premature to install more monitoring wells without additional grab groundwater sampling to determine the location of the plume for optimal well locations. We request that depth discrete grab groundwater sampling be used. Include your proposal in the amended workplan requested below.

3) Source Characterization – Soil samples in the source area were not analyzed for MTBE. We request that soil sampling be performed to determine the contaminant mass present. Include your proposal in the amended workplan requested below.

4) Site Conceptual Model (SCM) – Please submit a SCM.
The SCM for this project is to incorporate, but not be limited to, the following:
A concise narrative discussion of the regional geologic and hydrogeologic setting. Include a list of technical references you reviewed, and copies (photocopies are sufficient) of regional geologic maps, groundwater contours, cross-sections, etc.
A concise discussion of the on-site and off-site geology, hydrogeology, release history, source zone, plume development and migration, attenuation mechanisms, preferential pathways, and potential threat to downgradient and above-ground receptors. Be sure to include the vapor pathway in your analysis. Maximize the use of large-scale graphics (e.g., maps, cross-sections, contour maps, etc.) and conceptual diagrams to illustrate key points.
Identification and listing of specific data gaps that require further investigation during subsequent phases of work.
Proposed activities to investigate and fill data gaps identified above.
The SCM shall include an analysis of the hydraulic flow system at and downgradient from the site. Include rose diagrams for groundwater gradients. The rose diagram shall be plotted on groundwater contour maps and updated in all future reports submitted for your site. Include an analysis of vertical hydraulic gradients. Note that these likely change due to seasonal precipitation and pumping. To evaluate the potential interconnection between shallow and deep aquifers, include hydrographs of hydraulic head in the shallow aquifer versus pumping rates from nearby water supply wells.
Temporal changes in the plume location and concentrations are also a key element of the SCM. In addition to providing a measure of the magnitude of the problem, these data are often useful to confirm details of the flow system inferred from the hydraulic head measurements. Include plots of the contaminant plumes on your maps, cross-sections, and diagrams.
Several other contaminant release sites exist in the vicinity of your site. Hydrogeologic and contaminant data from those sites may prove helpful in testing certain hypotheses for your SCM.

5) Preferential Pathway Study – An irrigation well is located by the adjacent property downgradient from your site.
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. The purpose of the preferential pathway study is to locate potential migration pathways and conduits and determine the probability of the plume encountering preferential pathways and 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 bearing zones, pumping wells in the vicinity of your site, and manmade conduits for shallow migration. 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 Soil and Water Investigation Report (SWI) Report requested below. Please include an evaluation of the probability of the

contaminant plumes encountering preferential pathways and conduits that could spread the contamination, particularly in the vertical direction to deeper water aquifers.
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.

6) Interim Remediation - Dual Vapor Extraction (DVE) design parameters couldn't be found in our file. Please provide. Also, please use the results of the source area characterization to evaluate the effectiveness of the DVE system.
7) Quarterly Monitoring - Please monitor groundwater quarterly for Total Petroleum Hydrocarbons-Gasoline (TPH-G), and continue quarterly monitoring for Benzene, Toluene, Ethyl Benzene, Xylene (BTEX), and Methyl Tertiary-Butyl Ether (MTBE) by EPA Method 8260. Additionally, analyze for Tertiary Amyl Methyl Ether (TAME), Ethyl Tertiary Butyl Ether (ETBE), Di-Isopropyl Ether (DIPE), and Tertiary Butyl Alcohol (TBA), Ethanol, Ethylene Dibromide (EDB), and Ethylene Dichloride (EDC). If any of the latter compounds are detected, and are determined to be of concern (poses a risk to human health, the environment, or water resources) it is to be incorporated into your regular monitoring plan.
Please note, some laboratories may set detection limits for oxygenates that are higher than regulatory reporting limits, particularly for TBA. Additionally, sample preservations techniques have been reported to hydrolyze ethers (e.g., formation of TBA from MTBE hydrolysis) during some laboratory analysis procedures. Please work with your laboratory to meet the regulatory reporting standards for California and to determine appropriate sample preservation techniques.
8) Groundwater Gradients – Gradients have been provided for 2nd Quarter 1999 through 4th Quarter 2002. Please incorporate all of the historical groundwater gradients for the rose diagrams.
9) Risk-Based Corrective Action (RBCA) – We wish to review the RBCA after characterization and definition of your contaminant plumes have been completed. However, the following deficiencies were noted: TPH-G pollution was not considered, volatization from the irrigation well needs to be considered, MTBE also needs to be considered as a resource risk.
10) Release on April 3, 2002 - Attributed to a crack found in the secondary containment system of an underground storage tank. Please submit documentation of this release.
11) Hydrogen Peroxide Injections - A workplan dated February 3, 2000 proposed hydrogen peroxide injections. However, to date, there has not been any mention of it use. Please indicate whether hydrogen peroxide injections has been used, and if so, how.
12) Dispenser Replacement Soil Sampling Report - We are missing the October 1995 dispenser replacement soil sampling report. Please provide.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Eva Chu) according to the following schedule:

March 5, 2003 – 4th Quarter 2002 Monitoring Report
March 5, 2003 - Amended Work Plan
April 5, 2003 - SCM
April 5, 2003 - Preferential Pathway Study
April 5, 2003 - Dual Vapor Extraction (DVE) Design Parameters
April 5, 2003 - Evaluation of DVE Effectiveness
April 5, 2003 - Rose Diagram
April 5, 2003 - Release on April 3, 2002
April 5, 2003 - Hydrogen Peroxide Injections
April 5, 2003 - October 1995 Dispenser Replacement Soil Sampling Report
April 31, 2003 – 1st Quarter 2003 Monitoring
90 days after Work Plan Addendum Approval – Soil and Water Investigation Report

These reports are being requested pursuant to the Regional Water Quality Control Board's (Regional Board) authority under Section 13267 of the California Water Code. Each report shall include conclusions and recommendations for the next phases of work required at the site. If you have any questions, please call me at (510) 567-6746.

Sincerely,

Don Hwang
Hazardous Materials Specialist
Local Oversight Program

C: Melody Munz, Cambria Environmental Technology, Inc., 1144-65th St., Suite B, Oakland, CA 94608

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

June 14, 2001

Karen Petryna
Equiva Services LLC
P.O. Box 7869
Burbank, CA 91501-7869

Re: Shell Service Station, 1285 Bancroft Ave., San Leandro, CA;
RO0000156

Dear Ms. Petryna:

"1st Quarter 2001 Monitoring Report..." dated March 28, 2001 by Cambria Environmental Technology, was reviewed. Monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, and MW-7 were sampled and analyzed for total petroleum hydrocarbons as gasoline (TPPH), benzene, toluene, ethyl benzene, xylene (BTEX), and methyl tertiary-butyl ether (MTBE) on January 15, 2001. MW-1's constituent concentrations were within the ranges found since 1998. The concentrations were 201 ug/l TPPH, 7.58, 29.9, 9.64, 42.9 ug/l BTEX, 24.9 ug/l MTBE. MW-2's concentrations all decreased compared to the prior quarter's. However, concentrations have varied widely historically. The concentrations were 654 ug/l TPPH, 52.3, 9.10, 37.8, 93.6 ug/l BTEX, 10.9 ug/l MTBE. MW-3's concentrations with few exceptions were the lowest since 2nd Quarter 1997. The concentrations were 4,800 ug/l TPPH, 7.04, 70.0, 70.9, 380 ug/l BTEX, 54.7 ug/l MTBE. MW-4's concentrations were within the ranges found since 1998. The concentrations were 1,170 ug/l TPPH, 21.6, 1.51, 123, 52.8 ug/l BTEX, 592 ug/l MTBE. MW-5's concentrations have been consistently high. The concentrations were 78,300 ug/l TPPH, 2,220, 21,400, 1,960, 12,200 ug/l BTEX, 3,420 ug/l MTBE. MW-6's concentrations also have been consistently high. The concentrations were 64,800 ug/l TPPH, 2,090, 20,400, 1,860, 11,100 ug/l BTEX, <1,250 ug/l MTBE. MW-7's concentrations have been consistently nondetectable (ND) or very low. All concentrations were ND. MW-8's concentrations have been ND for TPPH and BTEX, while the 173 ug/l MTBE was consistent with historical results. Quarterly monitoring will continue.

Dual-phase vacuum extraction (DVE) was initiated in November 2000. Provide a description and diagram of the remediation system.

Also, a workplan for using hydrogen peroxide dated February 3, 2000 was submitted. However, there has not been any mention of it use. Indicate if hydrogen peroxide has been used.

We are awaiting a site investigation report of activities on June 26 and 27, 2000, and a risk-based corrective action Tier II evaluation.

If you have any questions, you may call me at 510/567-6746.

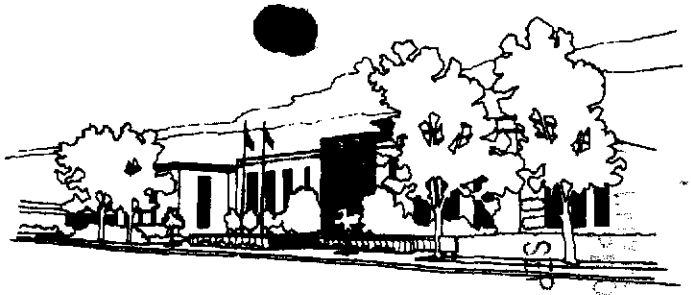
Sincerely,

Don Hwang
Hazardous Materials Specialist

C: Stephan Bork, Cambria Environmental Technology, Inc., 1144-65th St., Suite B, Oakland, CA 94608

√ File

City of San Leandro
Civic Center, 835 E. 14th Street
San Leandro, California 94577



August 30, 2000

Don Hwang, Hazardous Materials Specialist
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda CA 94502-6577

Re: Shell Service Station, 1285 Bancroft Avenue

Dear Mr. Hwang:

Regarding your letter of August 24, 2000, the injection of oxidizing compounds, such as hydrogen peroxide, to enhance the biological degradation of BTEX and MtBE is, at this point, a conventional technology that has been tested and applied repeatedly. Managed appropriately within the parameters proposed for the above-referenced project, the procedure should not pose a safety concern to persons or property.

Sincerely,

Tiffany Treece

Tiffany Treece
Environmental Protection Specialist

E-mail: ttreece@ci.san-leandro.ca.us

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

August 24, 2000

Mike Bakaldin, Hazardous Materials Coordinator
Alameda County Fire Dept.
835 E. 14th St.
San Leandro, CA 94577

Dear Mike:

Subject: Shell Service Station, 1285 Bancroft Ave., San Leandro, CA;
StId 988

Previously, I faxed the portion of the "Site Investigation Work Plan" dated February 3, 2000 by Cambria Environmental Technology, Inc., which proposed the addition of hydrogen peroxide into the onsite wells. I would like you to correspond back to me as to the safety of this proposal.

If you have any questions, you may call me at 510/567-6746.

Sincerely,

Don Hwang
Hazardous Materials Specialist

Enclosure

C: Darryk Ataide, Cambria Environmental Technology, Inc., 1144-65th St.,
Suite B, Oakland, CA 94608

Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, CA 91501-7869

files

L.S.

Specific tasks proposed to complete these objectives are as follows:

Site Health and Safety Plan: We will prepare a comprehensive site safety plan to protect site workers. The plan will be kept on site during field activities and signed by each site worker.

Hydrogen Peroxide Injection: We will add an approximate 4% solution of hydrogen peroxide into two onsite wells (MW-2 and MW-3) located adjacent to primary source areas (Figure 1). During each injection event, approximately 30 gallons of hydrogen peroxide solution will be added into each well and allowed to infiltrate. Following the addition of the hydrogen peroxide, a slug of tap water will be added to the well to help facilitate the infiltration of the hydrogen peroxide into the aquifer. The amount of hydrogen peroxide and tap water added to each well will be based on the diameter of the well, depth to groundwater, and the permeability of the soil. Hydrogen peroxide will be added immediately following the next scheduled quarterly monitoring event and will be added on a weekly basis for a period of six weeks. The concentration of hydrogen peroxide solution may be increased throughout the series of injections, depending on temperature measurements.

Following the six-week period, the wells will be allowed to equilibrate prior to the collection of subsequent quarterly groundwater samples.

Bioparameter Monitoring: Measurements of groundwater for dissolved oxygen, oxidation/reduction potential (ORP or Eh), pH, conductivity and temperature will be collected in the field. Groundwater samples will also be analyzed for alkalinity, nitrate, sulfate and ferrous iron by EPA Methods 310.2, 353.2, 375.4, and 200.7, respectively. These measurements will be collected prior to the initial hydrogen peroxide injection for background, and during each quarterly sampling event to monitor the effectiveness of the treatment.

Periodic Groundwater Extraction: Weekly groundwater extraction from well MW-6 will be initiated to lower benzene concentrations and minimize plume migration to the adjacent residential area. Each extraction event will consist of pumping from this well until 500 gallons are removed or until the well dewaters.

Plume Delineation: In its letter, ACHCSA requests further delineation of the contaminant plume. However, petroleum hydrocarbons and MTBE were not detected in the existing offsite irrigation well located down-gradient of the plume. We will continue to collect and analyze groundwater samples from this well on a quarterly basis to ensure that the plume is delineated in the downgradient direction.

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

December 17, 1999

Karen Petryna
Equiva Services LLC
P.O. Box 7869
Burbank, CA 91501-7869

Re: Shell Service Station, 1285 Bancroft Ave., San Leandro, CA;
StId 988

Dear Ms. Petryna:

I've been designated the new caseworker for the aforementioned site. In response to the request for an extension to the deadline of January 3, 2000 for submitting a workplan to characterize and delineate the MTBE plume, I've been authorized by my supervisor, Tom Peacock, to grant a one month extension. The workplan is due February 3, 2000.

If you have any questions, you may call me at 510/567-6746.

Sincerely,

Don Hwang
Hazardous Materials Specialist

cc

C: Darryk Ataide, Cambria Environmental Technology, Inc., 1144-65th St., Suite B, Oakland, CA 94608

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)

November 05, 1999

Karen Petryna
Equiva Services LLC
Science & Engineering, West Coast
P.O. Box 6249
Carson, CA 90749-6249

STID: 988
Re: Investigations at Shell-branded Service Station, located at 1285 Bancroft Avenue, San Leandro, California

Dear Ms. Petryna,

This office has reviewed the October 11, 1999 Second Quarter Monitoring Report and the October 29, 1999 Well Installation Report, both prepared by Cambria Environmental Technology, Inc. (Cambria) for the above site. Significantly higher contaminant concentrations were identified from the newly installed Well MW-5 than the nearby wells MW-1 and MW-3, indicating that Well MW-5, due to its shallower screened interval, is capturing the higher concentrations existing in the upper aquifer that Wells MW-1 and MW-3 were unable to capture.

Newly installed Well MW-6, located adjacent to a residential property to the west of the site, identified 6,800 parts per billion (ppb) benzene. This far exceeds the conservative Tier 2 residential threshold value of 162ppb that was estimated by our office using a depth-to-water of 30-feet below ground surface (bgs), a clayey sandy soil, and a risk of 1E10-5. Therefore, if commensurate concentrations of benzene continue to be identified in this well within the next two quarterly groundwater monitoring events, a more site-specific residential Tier 2 Risk Assessment will need to be submitted to our office. If it is determined that the benzene concentrations are significantly exceeding the Tier 2 values, then measures will need to be employed to expedite degradation of the contaminant plume.

Additionally, based on the elevated levels of MTBE identified in Well MW-6, this office is requiring further characterization and delineation of the MTBE contaminant plume. **A workplan addressing this work should be submitted within 60 days of the date of this letter (i.e., by January 03, 1999).**

Wells MW-5 through MW-8 were last sampled on June 04, 1999, therefore, the third quarter groundwater monitoring event was due to take place at the site in September 1999. If the third quarter sampling event has not yet been conducted, you are required to implement this work by

the end of November 1999. The corresponding monitoring report is due to this office within 45 days after completing groundwater sampling at the site.

Thank you for your cooperation. If you have any questions or comments, please contact me at (510) 567-6763.

Sincerely,

Juliet Shin, R.G.
Hazardous Materials Specialist

Cc: Darryk Ataide
Cambria Environmental Technology, Inc.
1144 65th Street, Ste B
Oakland, CA 94608

Mike Bakaldin
City of San Leandro
835 East 14th St.
San Leandro, CA 94577

TRANSMIT REPORT

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To Darryk Atwide	From Suliet Shin
Co.	Co. Alameda County
Dept.	Phone # 510-567-6763
Fax # 510-420-9170	Fax # 510-337-9335

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

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

November 05, 1999

Karen Petryna
Equiva Services LLC
Science & Engineering, West Coast
P.O. Box 6249
Carson, CA 90749-6249

STID: 988
Re: Investigations at Shell-branded Service Station, located at 1285 Bancroft Avenue, San Leandro, California

Dear Ms. Petryna,

This office has reviewed the October 11, 1999 Second Quarter Monitoring Report and the October 29, 1999 Well Installation Report, both prepared by Cambria Environmental Technology, Inc. (Cambria) for the above site. Significantly higher contaminant concentrations were identified from the newly installed Well MW-5 than the nearby wells MW-1 and MW-3, indicating that Well MW-5, due to its shallower screened interval, is capturing the higher concentrations existing in the upper aquifer that Wells MW-1 and MW-3 were unable to capture.

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CAMBRIA

November 23, 1999

Ms. Juliet Shin
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

Re: Certified List of Record Fee Title Owners for:
Shell-branded Service Station
1285 Bancroft
San Leandro, CA
Incident No. 98996067

Dear Ms. Shin:

In accordance with section 25297.15(a) of Chapter 6.7 of the Health Safety Code and on behalf of Equiva Services LLC, we certify that the following is a complete list of current record fee title owners and their mailing addresses for the above site.

Equilon Enterprises LLC c/o Stewart Title Guaranty Company, 1980 Post Oak Blvd., Suite 110, Houston, TX 77056

Sincerely,

Ailsa S. Le May, R.G.
Senior Geologist

cc: Karen Petryna, Equiva Services LLC, P.O. Box 6249, Carson, California, 90749-6249

Oakland, CA
Sonoma, CA
Portland, OR
Seattle, WA

Cambria Environmental Technology, Inc.

1144 65th Street
Suite B
Oakland, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

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

Post-it® Fax Note 7671	Date 6/22	# of pages ▶ 3
To Don Hwang	From Darryl Attalde	
Co./Dept. ACHCSA	Co. Cambria	
Phone #	Phone # (510) 420-3339	
Fax # (510) 337-9335	Fax # (510) 420-9170	

Alameda, CA 94502-6577
(510) 567-6700
(510) 337-9835 (FAX)

November 05, 1999

Karen Petryna
Equiva Services LLC
Science & Engineering, West Coast
P.O. Box 6249
Carson, CA 90749-6249

STID: 988
Re: Investigations at Shell-branded Service Station, located at 1285 Bancroft Avenue, San Leandro, California

Dear Ms. Petryna,

This office has reviewed the October 11, 1999 Second Quarter Monitoring Report and the October 29, 1999 Well Installation Report, both prepared by Cambria Environmental Technology, Inc. (Cambria) for the above site. Significantly higher contaminant concentrations were identified from the newly installed Well MW-5 than the nearby wells MW-1 and MW-3, indicating that Well MW-5, due to its shallower screened interval, is capturing the higher concentrations existing in the upper aquifer that Wells MW-1 and MW-3 were unable to capture.

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Additionally, based on the elevated levels of MTBE identified in Well MW-6, this office is requiring further characterization and delineation of the MTBE contaminant plume. **A workplan addressing this work should be submitted within 60 days of the date of this letter (i.e., by January 03, 1999).**

Wells MW-5 through MW-8 were last sampled on June 04, 1999, therefore, the third quarter groundwater monitoring event was due to take place at the site in September 1999. If the third quarter sampling event has not yet been conducted, you are required to implement this work by

the end of November 1999. The corresponding monitoring report is due to this office within 45 days after completing groundwater sampling at the site.

Thank you for your cooperation. If you have any questions or comments, please contact me at (510) 567-6763.

Sincerely,

Juliet Shin, R.G.
Hazardous Materials Specialist

Cc: Darryk Ataide
Cambria Environmental Technology, Inc.
1144 65th Street, Ste B
Oakland, CA 94608

Mike Bakaldin
City of San Leandro
835 East 14th St.
San Leandro, CA 94577

FORWARD
INCORPORATED

P.O. Box 6336
1145 W. Charter Way • Stockton, CA 95206
(209) 466-4482 • (800) 204-4242 • FAX (209) 466-1067

June 30, 1999

Cambria Environmental
1144 65th Street, Suite C
Oakland, CA 94608

Attn: Darryk Ataide

Re: Approval No. 850092
Drill Cuttings
1285 Bancroft Avenue, San Leandro

Dear Mr. Ataide:

FORWARD INC. is pleased to inform you that the approximately 4 tons of Drill Cuttings from the referenced site has been approved for acceptance at our Manteca, California Landfill as a Class 2 waste. This approval has been based on the information provided in the waste profile and associated materials submitted on behalf of Equilon Enterprises LLC (Generator). Acceptance of the waste is subject to regulatory requirements, and is also subject to the "Terms and Conditions" agreed to and signed by Generator in the waste profile.

Your approval number for this project will be 850092. This number should be used in all scheduling and correspondence with ***FORWARD, INC.*** regarding this waste profile.

This profile shall remain in effect until December 31, 1999, or until any significant changes in the waste stream occur. At that time, ***FORWARD, INC.*** will re-evaluate the profile, and current analytical data and requirements will be reviewed.

Please schedule all waste shipments with the Landfill (209-982-4298) at least 24 hours in advance. The landfills hours of operation are Monday through Friday 6:00 am to 4:30 pm for soil, 6:00 am to 3:00 pm for all other waste types.

Thank you for the opportunity to be of service. Should you have any questions, please do not hesitate to contact me or our Customer Service at (800) 204-4242.

Sincerely,

FORWARD, INC.

Brad Bonner

Brad J. Bonner
Sales Manager

BJB/xh

F:\FORWARD\MERGE FORMS\ACCEPT.DOC

CAMBRIA

To:	Juliet Shin
Company:	ACHCSA
Fax:	(510) 337-9335
Phone:	(510) 567-6700

From:	Darryk Ataide
Phone:	(510) 420-3339
Pages:	2
Date:	June 21, 1999
Re:	1285 Bancroft Ave. San Leandro

Fax

Hard Copy to Follow? **Yes** ☐ **No** ☒

Juliet,

Following is a site plan showing the location of the irrigation well west of the site. Please call me if you have any questions or comments.

Thank You,

D. Ataide

Darryk Ataide

Cambria Environmental Technology, Inc., 1144 - 65th Street, Suite C, Oakland, CA 94608 Tel (510) 420-0700 Fax (510) 420-9170

08/14/99

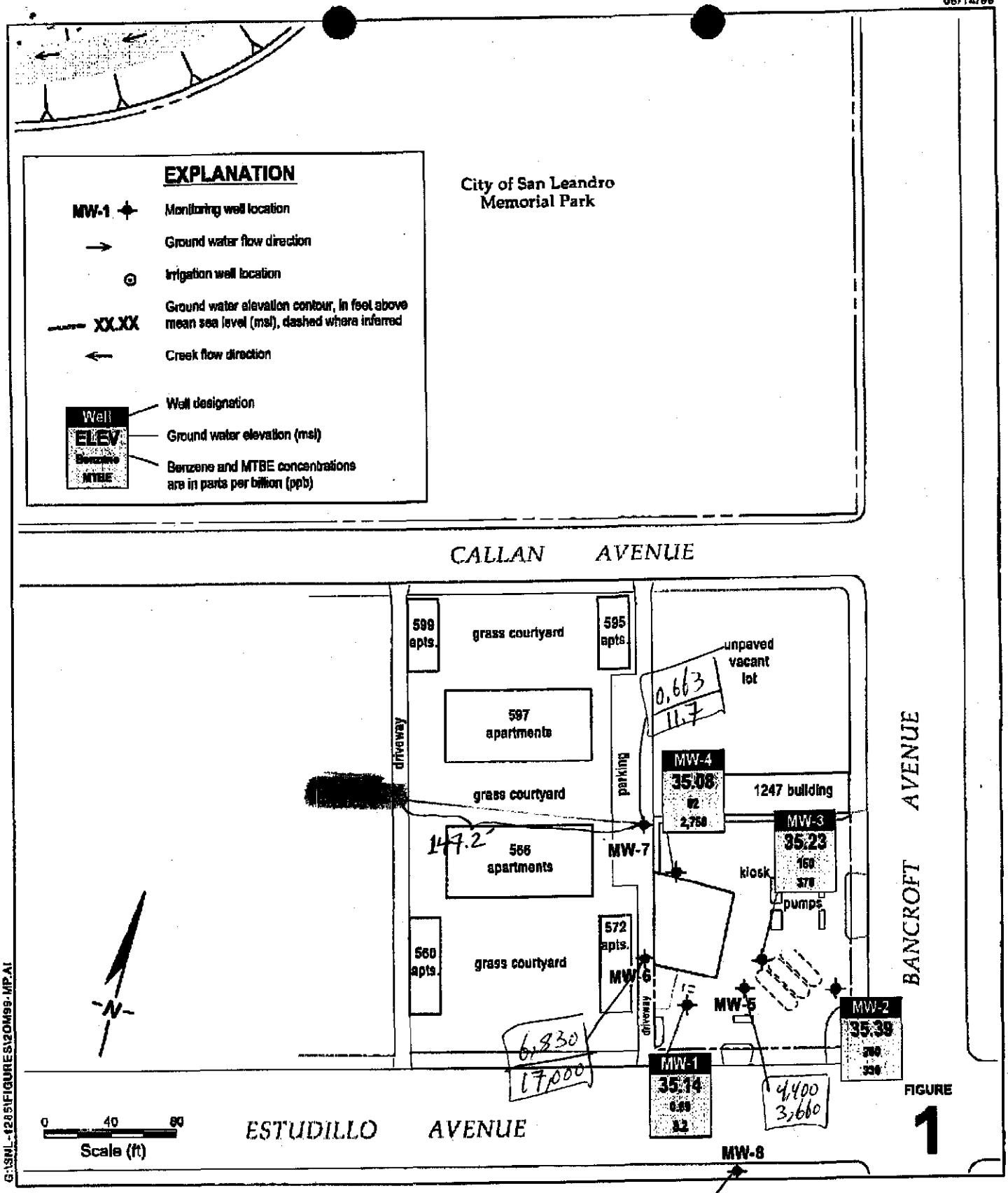

FIGURE 1

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Shell-branded Service Station
1285 Bancroft Avenue
San Leandro, California
Incident #98996067

CAMBRIA

Ground Water Elevation Contour Map

April 16, 1999

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 15, 1999

Karen Petryna
Equiva Services LLC
Science & Engineering, West Coast
P.O. Box 6249
Carson, CA 90749-6249

STID: 988
Re: Addendum to workplan for investigations at the Shell-branded Service Station, located at 1285 Bancroft Avenue, San Leandro, CA

Dear Ms. Petryna,

This office has reviewed Cambria Environmental Technology, Inc.'s (Cambria) Workplan Addendum, dated April 14, 1999, for the above site. The February 24, 1999 workplan, along with this workplan addendum, is acceptable to this office with the following reminders:

- Cambria states that Equiva Services LLC (Equiva) will pursue evidence that the VOC contamination at the site is from an off-site source when pursuing case closure. However, please be reminded that if Equiva cannot ultimately prove to the satisfaction of this office and the Regional Water Quality Control Board (RWQCB) that the VOC contamination is, in fact, coming from off site, then Equiva will be required to assess any potential risks posed by the VOCs to human health and the environment and will need to submit an acceptable Risk Management Plan to be filed with the deed prior to receiving case closure.

- In reference to the purge and non-purge sample requirements, Cambria states that "We assume the rational behind this requirement is so Cambria may pursue implementing non-purge protocol on selected wells in the future". However, please be reminded that this requirement does not necessarily guarantee the elimination of purging requirements, and that the intent of this requirement is to go with the method that yields the more conservative values. If the non-purge technique appears to yield the more conservative values, then future groundwater samples may be collected without purging, and the indirect consequence of this would be that Equiva could be saved the disposal costs of purge water.

The workplan must be implemented within 45 days of the date of this letter (i.e., **by May 27, 1999**). A report documenting the work must be submitted within 45 days after completing field activities. Please notify this office at least one week prior to commencing field work.

If you have any questions or comments, please contact this office at (510) 567-6763.

Sincerely,

Juliet Shin
Hazardous Materials Specialist

Cc: Darryk Ataide
Cambria Environmental Technology, Inc.
1144 65th Street, Ste B
Oakland, CA 94608

Mike Bakaldin
City of San Leandro
835 East 14th St.
San Leandro, CA 94577

SMIT REPORT

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To Darryk Atarde	From Juliet Shin
Co. Cambria	Co. Alameda City
Dept.	Phone # 510-567-6763
Fax # 510-420-9170	Fax # 510-337-9335

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

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

April 15, 1999

Karen Petryna
Equiva Services LLC
Science & Engineering, West Coast
P.O. Box 6249
Carson, CA 90749-6249

STID: 988
Re: Addendum to workplan for investigations at the Shell-branded Service Station, located at 1285 Bancroft Avenue, San Leandro, CA

Dear Ms. Petryna,

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- Cambria states that Equiva Services LLC (Equiva) will pursue evidence that the VOC contamination at the site is from an off-site source when pursuing case closure. However, please be reminded that if Equiva cannot ultimately prove to the satisfaction of this office and the Regional Water Quality Control Board (RWQCB) that the VOC contamination is, in fact, coming from off site, then Equiva will be required to assess any potential risks posed by the VOCs to human health and the environment and will need to submit an acceptable Risk Management Plan to be filed with the deed prior to receiving case closure.

- In reference to the purge and non-purge sample requirements, Cambria states that "We assume the rational behind this requirement is so Cambria may pursue implementing non-purge protocol on selected wells in the future". However, please be reminded that this requirement does not necessarily guarantee the elimination of purging requirements, and that the intent of this requirement is to

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

March 02, 1999

Karen Petryna
Equiva Services LLC
Science & Engineering, West Coast
P.O. Box 6249
Carson, CA 90749-6249

STID: 988
Re: Workplan for investigations at the Shell-branded Service Station, located at 1285 Bancroft Avenue, San Leandro, CA

Dear Ms. Petryna,

This office has reviewed Cambria Environmental Technology, Inc.'s (Cambria) February 24, 1999 workplan addressing additional investigations at the above site. Per my conversation with Darryk Ataide, Cambria, on March 02, 1999, this office is requiring that the following issues be addressed as part of the workplan prior to our approval of the workplan:

- The workplan proposes to delineate the extent of the groundwater contaminant plume to the west and northwest by installing Well MW-6 roughly 160-feet west of the site and Well MW-5 roughly 80-feet north/northwest of the site. **In addition to these directions, the plume must also be delineated in the southerly direction**. Groundwater flow directions documented in a total of four prior quarterly groundwater monitoring reports have exhibited a southerly component extending from the locations of Wells MW-2 and MW-3 (First Qtr '94; Second Qtr '96; Second Qtr '97; and Third Qtr '98). As discussed with Mr. Ataide, it would be acceptable to emplace and sample a hydropunch in the southerly direction to determine the extent of the contaminant plume prior to installing a permanent monitoring well.
- As stated in the County's December 30, 1998 letter, groundwater samples must be collected from the residential area **immediately** downgradient of the site to assess any potential risks to the occupants. The proposed Well MW-6 is located too far downgradient (west) from where the contaminant plume first enters into the residential area from the east, so samples collected from Well MW-6 is not likely to be representative of the higher concentrations that may be found below the residential area. **Consequently, you are required to locate an additional well point within or immediately upgradient of the residential area for risk assessment purposes**. Per the County's letter, a tentative residential human-health protective threshold value of 162 parts per billion (ppb) was calculated for a 10^{-5} risk using soil and groundwater data collected from the existing on-site wells.
- The proposed screen intervals for monitoring Wells MW-5 and MW-6 is 20- to 60-feet below ground surface (bgs). Based on past discussions with the San Francisco Bay-Regional Water Quality Control Board (RWQCB), this 40-foot screen interval is thought to be too long and may be conducive to dilution of sample concentrations during times of shallower groundwater tables. Considering that groundwater levels have fluctuated over a range of approximately 18 feet in Wells MW-1 through MW-3 and a range of

approximately 15 feet in Well MW-4 within the last six years of monitoring, with a maximum depth of 44.85-feet bgs and a minimum depth of 26.15-feet bgs, **this office feels that it would be acceptable to use a screen that was roughly 20- to 25-feet in length (e.g., a screen running from 25- to 50-feet bgs. Of course, the ultimate screen depths would be based on the observed groundwater levels in the newly installed wells).**

- This office requested in its December 30, 1998 letter that information be provided to determine whether groundwater in the on-site wells are semi-confined or unconfined so that we could ascertain whether these wells were screened properly. Based on Cambria's response, it appears that they agree with past conclusions that the wells are unconfined and **screening improperly. Therefore, a minimum of two additional monitoring wells with acceptable screened intervals must be installed to accurately monitor groundwater contaminant concentrations on site.** Representative groundwater concentrations on site are important for assessing the progress of plume degradation and stability, and for developing an accurate risk assessment. For instance, on the exterior, groundwater contaminant concentrations appear to have attenuated significantly in Well MW-1 in the last three quarters, however, when we look more closely at the situation, the water levels during this period have been anywhere from 2- to 12-feet above the screened interval. This office has no formula available to take these errors into account, and there is no way of knowing what concentrations actually exist in this location. Wells MW-1 through MW-4 should not be destroyed, because they could be used for monitoring if and when the groundwater table drops back down to deeper levels.
- The workplan states that the VOC contamination is coming from off site and that Equiva Services (formerly Shell Oil) is not responsible for this contamination. Per my conversation with Chuck Headlee, RWQCB, **Equiva Services is required to provide additional information to prove that the VOC contamination observed on site is coming from an off site source.** Equiva Services must provide this additional information before it can be cleared of the responsibility for the VOC contamination. The additional information could include an upgradient boring for concentration comparison purposes, as well as file searches identifying likely historical sources in the area. Per my earlier conversations with Mike Bakaldin, City of San Leandro, Mr. Bakaldin has indicated that the VOCs identified at the site are not part of the known regional VOCs plume in San Leandro. Additionally, if it cannot be shown that the VOC concentrations are from an off-site source, a Risk Management Plan addressing the VOCs will need to be filed with the property Deed at the time of site closure.
- Per the attached guidelines from RWQCB, the first round of groundwater sampling performed at a site shall be with both non-purged and purged samples. Please refer to the attachment for further details.
- The newly installed wells shall be developed only after a minimum of 72 hours has passed since their installation, per Article 4, Chapter 16, Division 3, Title 23 California Code of Regulations. Sampling of the wells shall only take place after a minimum of 48 hours after well development.

- Lastly, per the County's December 30, 1998 letter, Mike Bakaldin with the City of San Leandro has requested that he be copied on all future correspondences and documents.

A workplan addendum incorporating the above requirements shall be submitted to this office for review within 45 days of the date of this letter (i.e., by April 13, 1999). If you have any questions or comments, please contact me at (510) 567-6763.

Sincerely,

Juliet Shin
Hazardous Materials Specialist

ATTACHMENT

Cc: Darryk Ataide
Cambria Environmental Technology, Inc.
1144 65th Street, Ste B
Oakland, CA 94608

Mike Bakaldin
City of San Leandro
835 East 14th St.
San Leandro, CA 94577

TRANSMIT REPORT

1999,03-02 13:57
510 337 9335
ALAMEDA CO EHS HAZ-OPS

COM No.	REMOTE STATION	START TIME	DURATION	PAGES	RESULT	USER ID	REMARKS
171	510 2377821	03-02 13:55	01'53	03/03	OK		

7499402046

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

Post-it™ brand fax transmittal memo 7671 | # of pages ▸ 3

To Karen Petryna	From Juliet Shin
Co. Equiva Services	Co. Alameda Cty
Dept.	Phone # 570-567-6763
Fax # (209)645-5643	Fax # (570)337-9335

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

March 02, 1999

Karen Petryna
Equiva Services LLC
Science & Engineering, West Coast
P.O. Box 6249
Carson, CA 90749-6249

STID: 988
Re: Workplan for investigations at the Shell-branded Service Station, located at 1285 Bancroft Avenue, San Leandro, CA

Dear Ms. Petryna,

This office has revicwed Cambria Environmental Technology, Inc.'s (Cambria) February 24, 1999 workplan addressing additional investigations at the above site. Per my conversation with Darryk Ataide, Cambria, on March 02, 1999, this office is requiring that the following issues be addressed as part of the workplan prior to our approval of the workplan:

- The workplan proposes to delineate the extent of the groundwater contaminant plume to the west and northwest by installing Well MW-6 roughly 160-feet west of the site and Well MW-5 roughly 80-feet north/northwest of the site. **In addition to these directions, the plume must also be delineated in the southerly direction.** Groundwater flow directions documented in a total of four prior quarterly groundwater monitoring reports have exhibited a southerly component extending from the locations of Wells MW-2 and MW-3 (First Qtr '94; Second Qtr '96; Second Qtr '97; and Third Qtr '98). As discussed with Mr. Ataide, it would be acceptable to emplace and sample a hydropunch in the southerly direction to determine the extent of the contaminant plume prior to installing a permanent monitoring well.
- As stated in the County's December 30, 1998 letter, groundwater samples must be collected from the residential area **immediately** downgradient of the site to assess any potential risks to the occupants. The proposed Well MW-6 is located too far downgradient (west) from where the contaminant plume first enters into the residential area from the east, so samples collected from Well MW-6 is not likely to be

TRANSMIT REPORT

1999.03-02 14:00
510 337 9335
ALAMEDA CO EHS HAZ-OPS

COM No.	REMOTE STATION	START TIME	DURATION	PAGES	RESULT	USER ID	REMARKS
172	510 420 9170	03-02 13:58	01'15	03/03	OK		

7499402045

Post-it™ brand fax transmittal memo 7671 | # of pages ▸ 3

To Darryk Ataide	From Juliet Shin
Co. Cambria	Co. Alameda Cty.
Dept.	Phone # 510-567-6763
Fax # (510)420-9170	Fax # 510-337-9335

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

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

March 02, 1999

Karen Petryna
Equiva Services LLC
Science & Engineering, West Coast
P.O. Box 6249
Carson, CA 90749-6249

STID: 988
Re: Workplan for investigations at the Shell-branded Service Station, located at 1285 Bancroft Avenue, San Leandro, CA

Dear Ms. Petryna,

This office has reviewed Cambria Environmental Technology, Inc.'s (Cambria) February 24, 1999 workplan addressing additional investigations at the above site. Per my conversation with Darryk Ataide, Cambria, on March 02, 1999, this office is requiring that the following issues be addressed as part of the workplan prior to our approval of the workplan:

- The workplan proposes to delineate the extent of the groundwater contaminant plume to the west and northwest by installing Well MW-6 roughly 160-feet west of the site and Well MW-5 roughly 80-feet north/northwest of the site. **In addition to these directions, the plume must also be delineated in the southerly direction.** Groundwater flow directions documented in a total of four prior quarterly groundwater monitoring reports have exhibited a southerly component extending from the locations of Wells MW-2 and MW-3 (First Qtr '94; Second Qtr '96; Second Qtr '97; and Third Qtr '98). As discussed with Mr. Ataide, it would be acceptable to emplace and sample a hydropunch in the southerly direction to determine the extent of the contaminant plume prior to installing a permanent monitoring well.
- As stated in the County's December 30, 1998 letter, groundwater samples must be collected from the residential area **immediately** downgradient of the site to assess any potential risks to the occupants. The proposed Well MW-6 is located too far downgradient (west) from where the contaminant plume first enters into the residential

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)

December 30, 1998

Karen Petryna
Equiva Services LLC
Science & Engineering, West Coast
P.O. Box 6249
Carson, CA 90749-6249

Re: Investigations at Shell-branded Service Station, located at 1285 Bancroft Avenue, San Leandro, CA
STID 988

Dear Ms. Petryna,

I have recently been assigned as the new case worker for the above site, and have conducted a detailed review of the files for this site. The site is currently an active gasoline station with three 10,000-gallon fiberglass underground storage tanks (USTs) and one waste oil UST. Soil and groundwater investigations have been conducted at the site since contamination was identified during the removal of a 550-gallon waste oil underground storage tank (UST) in November 1986. There are currently four groundwater monitoring wells on site, MW-1 through MW-4, all of which have consistently identified TPHg, BTEX, and MTBE contamination since analysis for these constituents began. Contaminant concentrations dramatically increased in all four wells beginning in 1995, allegedly due to a rupture of a product line during construction activities, and up to 100,000 ppb TPHG, 20,000 ppb benzene, and 94,000 ppb MTBE was identified in the groundwater.

Although contaminant concentrations appear to be decreasing in the wells, it is uncertain whether this apparent decrease is applicable to the whole plume or only to localized areas affected by the placement of Oxygen-Releasing Compounds (ORCs) into the "hottest" wells MW-2 and MW-3. Additionally, the decrease of MTBE concentrations in groundwater can sometimes be deceiving, in that slugs of the MTBE plume move off site with the groundwater with very little adherence to soil, making it appear as though concentrations are degrading. **Per Article 11 Title 23 California Code of Regulations, this office is requiring that you delineate the extent of the observed groundwater contaminant plume.** The groundwater characteristics at the site are very volatile, with groundwater flow directions having varied from northerly to westerly, to one instance of southerly, and gradients having been as steep as 0.4 and as shallow as 0.002. These variations could partially be due to the proximity of San Leandro Creek, located 500 feet downgradient of the site, or the pumping of nearby wells, such as the domestic/irrigation well noted to be within 500 feet downgradient of the site in Weiss Associates' May 3, 1994 report. As part of the above required delineation work, efforts must be made to determine whether the plume is impacting the San Leandro Creek or the nearby domestic/irrigation wells.

Groundwater samples must be collected from the residential area immediately downgradient of the site as part of the delineation process. This office conducted preliminary risk assessment calcuations using the soil types and the depth-to-groundwater at the site, which fluctuates between 26- to 44-feet below ground surface, and came up with a benzene threshold value of 162ppb for groundwater volatilization into residences at a 10^{-5} risk. Based on these results, a Tier 2 risk assessment may be required if contaminants are detected below the residential area.

The four monitoring wells on site appear to be inadequately screened, and there is concern that the highest contaminant concentrations, which generally lie at the top of the water table, is not being detected from these wells. According to the monitoring well logs, Well MW-1 is screened from 38- to 60-feet below ground surface (bgs); Well MW-2 is screened from 40- to 60-feet bgs; Well MW-3 is screened from 39- to 59-feet bgs; and Well MW-4 is screened from 35- to 55-feet bgs. However, the depth-to-water in these wells, especially in wells MW-1 through MW-3, has been significantly above the screened intervals of these wells at depths as shallow as 26-feet bgs. The screened intervals would be adequate if the contaminated aquifer was confined, however, the boring logs indicate that the aquifer is unconfined. Unless you can show that the above screened intervals are justified, these monitoring wells must be replaced with adequately screened wells.

Per the Regional Water Quality Control Board's (RWQCB) guidelines, the next groundwater monitoring event must include the analysis for MTBE using Method 8260 for all the wells. Furthermore, the groundwater samples must also be analyzed for the following oxygenates and lead scavengers using Method 8260 and 8010: Tertiary Butyl Alcohol (TBA); Tertiary Amyl Methyl Ether (TAME); Diisopropyl Ether (DIPE); Ethyl Tertiary Butyl Ether (ETBE); Ethylene Dibromide (EDB); and Ethylene Dichloride (EDC).

Concentrations of Tetrachloroethylene (PCE) exceeding the U.S. EPA's Maximum Contaminant Level (MCL) for drinking water were consistently identified in Wells MW-1 through MW-3 from 1992 to 1995, when analysis for VOCs were discontinued. In Cambria Environmental Technology, Inc.'s (Cambria) October 29, 1993 report, they requested that analysis for this constituent be reduced to just one well on an annual basis, based on the argument that the PCE being identified in the wells was attributable to the regional San Leandro VOC plume. However, per my conversation with Mike Bakaldin, City of San Leandro, who is overseeing the regional VOC plume, this site is not tied into this plume. Furthermore, considering that low levels of PCE were identified in soil from boring BH-1 at a shallow depth of 9-feet bgs in 1990, there is some indication that the VOC contamination could be coming from your site. Per RWQCB's guidelines, a site cannot be closed with chlorinated hydrocarbons exceeding drinking water standards. Based on these guidelines, this office is requiring that analysis for PCEs be resumed for **all** the wells at a semi-annual frequency.

Future groundwater monitoring reports shall also include a more detailed interpretation/conclusion section that provides professional discussions on the lab results,

migration rates, sensitive receptors, proposals for future work, etc. At the request of Mike Bakaldin, Mr. Bakaldin shall be copied on all future reports and correspondence. His address is: City of San Leandro, 835 East 14th Street, San Leandro, CA 94577.

A workplan addressing the above required work shall be submitted to this office within 45 days of the date of this letter (i.e., February 10, 1999). The workplan shall include a timetable for the proposed work. Field work shall commence within 60 days after the approval of the workplan. A report documenting the field work shall be submitted within 45 days after completing field activities.

If you have any questions or comments, please contact me at (510) 567-6763,

Sincerely,

Juliet Shin
Hazardous Materials Specialist

Cc: Darryk Ataide, Cambria Environmental Technology, Inc.
1144 65th Street, Ste B, Oakland, CA 94608
Mike Bakaldin
City of San Leandro, 835 East 14th St., San Leandro, CA 94577

LOP - CHANGE RECORD REQUEST FORM

printed: 10/15/98

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 : 988 LOC: -0-
SITE NAME: Bob Farrell Shell DATE REPORTED : 10/17/89
ADDRESS : 1285 Bancroft Ave DATE CONFIRMED: -0-
CITY/ZIP : San Leandro 94577 MULTIPLE RPs : Y

SITE STATUS

CASE TYPE: O CONTRACT STATUS: 4 PRIOR CODE:-0- EMERGENCY RESP: -0-
RP SEARCH: S DATE COMPLETED: 02/05/93
PRELIMINARY ASMNT: C DATE UNDERWAY: 03/06/90 DATE COMPLETED: 03/07/90
REM INVESTIGATION: - DATE UNDERWAY: -0- DATE COMPLETED: -0-
REMEDIAL ACTION: - DATE UNDERWAY: -0- DATE COMPLETED: -0-
POST REMED ACT MON:- DATE UNDERWAY: -0- DATE COMPLETED: -0-

ENFORCEMENT ACTION TYPE: 1 DATE ENFORCEMENT ACTION TAKEN: 02/05/93
LUFT FIELD MANUAL CONSID: 3
CASE CLOSED: - DATE CASE CLOSED: -0-
DATE EXCAVATION STARTED : 11/01/86 REMEDIAL ACTIONS TAKEN: -0-

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME: Alex Perez
COMPANY NAME: Shell Oil Company
ADDRESS: P. O. Box 8080
CITY/STATE: Martinez Ca 94553

RP#2-CONTACT NAME: Bob Farrell
COMPANY NAME: Bob Farrell Shell
ADDRESS: 1285 Bancroft Avenue
CITY/STATE: San Leandro, C A 94577

INSPECTOR VERIFICATION:

NAME _____ SIGNATURE _____ DATE _____

DATA ENTRY INPUT:

Name/Address Changes Only

ANNPGMS _____ LOP____ DATE _____

Case Progress Changes

LOP _____ DATE _____

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

WATER RESOURCES CONTROL BOARD
DIVISION OF WATER QUALITY - UST CLEANUP PROGRAM
SITE SPECIFIC QUARTERLY REPORT
FOR QUARTER BEGINNING 07/01/96

AGENCY # : 10000 SOURCE OF FUNDS: F SUBSTANCE: 12034
StID : 5846
SITE NAME: Miller Packing Co. II DATE REPORTED : 08/06/96
ADDRESS : 206 2nd St DATE CONFIRMED: 08/19/96
CITY/ZIP : Oakland 94607 MULTIPLE RPs : N

SITE STATUS

CASE TYPE: G CONTRACT STATUS: 2 PRIOR.CODE:-0- EMERGENCY RESP: -0-
RP SEARCH: S DATE COMPLETED: -0-
PRELIMINARY ASMNT: - DATE UNDERWAY: -0- DATE COMPLETED: -0-
REM INVESTIGATION: - DATE UNDERWAY: -0- DATE COMPLETED: -0-
REMEDIAL ACTION: - DATE UNDERWAY: -0- DATE COMPLETED: -0-
POST REMED ACT MON:- DATE UNDERWAY: -0- DATE COMPLETED: -0-

ENFORCEMENT ACTION TYPE: 1 DATE ENFORCEMENT ACTION TAKEN: 09/11/96
LUFT FIELD MANUAL CONSID: HSCA
CASE CLOSED: - DATE CASE CLOSED: -0-
DATE EXCAVATION STARTED : -0- REMEDIAL ACTIONS TAKEN: -0-

StID: 5846

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME: Mr. Gary Mcgraw
COMPANY NAME: Miller Packing Company
ADDRESS: 206 2nd Street
CITY/STATE: Oakland, Ca 94607

LOP - CHANGE RECORD REQUEST FORM

printed: 08/01/97

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 : 988 LOC:
SITE NAME: Bob Farrell Shell DATE REPORTED : 10/17/89
ADDRESS : 1285 Bancroft Ave DATE CONFIRMED:
CITY/ZIP : San Leandro 94577 MULTIPLE RPs : Y

SITE STATUS

CASE TYPE: O CONTRACT STATUS: 4 PRIOR CODE: EMERGENCY RESP:
RP SEARCH: S DATE COMPLETED: 02/05/93
PRELIMINARY ASMNT: C DATE UNDERWAY: 03/06/90 DATE COMPLETED: 03/07/90
REM INVESTIGATION: DATE UNDERWAY: DATE COMPLETED:
REMEDIAL ACTION: DATE UNDERWAY: DATE COMPLETED:
POST REMED ACT MON: DATE UNDERWAY: DATE COMPLETED:

ENFORCEMENT ACTION TYPE: 1 DATE ENFORCEMENT ACTION TAKEN: 02/05/93
LUFT FIELD MANUAL CONSID: 3
CASE CLOSED: DATE CASE CLOSED:
DATE EXCAVATION STARTED : 11/01/86 REMEDIAL ACTIONS TAKEN:

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME: R. Jeff Granberry
COMPANY NAME: Shell Oil Company
ADDRESS: P. O. Box 5278
CITY/STATE: Concord, C A 94524

RP#2-CONTACT NAME: Bob Farrell
COMPANY NAME: Bob Farrell Shell
ADDRESS: 1285 Bancroft Avenue
CITY/STATE: San Leandro, C A 94577

INSPECTOR VERIFICATION:

NAME _____ SIGNATURE _____ DATE _____

DATA ENTRY INPUT:

Name/Address Changes Only

ANNPGMS _____ LOP____ DATE _____

Case Progress Changes

LOP _____ DATE _____

CAMBRIA

#983

April 15, 1997

Dale Klettke
Alameda County Department
of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Dear Mr. Klettke:

On behalf of Shell Oil Products Company, Cambria Environmental Technology, Inc. (Cambria), will be submitting First Quarter 1997 Quarterly Monitoring Reports for the following sites within the next thirty days.

CITY	SITE
San Leandro	1285 Bancroft Street

We request that you approve of this new submission date.

Thank you for your assistance. Please call me if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc.

Paul Waite
Project Manager

cc: A. E. (Alex) Perez, Shell Oil Products Company, P.O. Box 4023 Concord, California 94524

F:\PROJECT\SHELL\0-MGMT\QMLETTER\Dale Kletke.wpd

CAMBRIA
ENVIRONMENTAL
TECHNOLOGY, INC.
1144 65TH STREET,
SUITE B
OAKLAND,
CA 94608
PH: (510) 420-0700
FAX: (510) 420-9170

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

STID 988

January 28, 1997

Mr. Jeff Granberry
Shell Oil Company
P. O. Box 4023
Concord, CA 94524

RE: SHELL SERVICE STATION, 1285 BANCROFT AVENUE, SAN LEANDRO

Dear Mr. Granberry:

I am in receipt of and have reviewed the Cambria "Interim Remedial Action/Notice of Violation" letter, dated January 28, 1997. In addition, I have just received a faxed copy of the requested unauthorized release (leak)/contamination site report (ULR).

The interim remedial action plan (IRAP) proposes to place oxygen-releasing compounds (ORCs) into up-gradient groundwater monitoring wells MW-2 and MW-3. In addition, dissolved oxygen (DO) concentrations will be monitored to evaluate the effectiveness of the ORCs and to recommend any appropriate future actions.

This work plan is approved. Please be advised that you are now in compliance with this agencies directives.

Please feel free to contact Thomas Peacock directly at (510)567-6782, should you have any questions about the content of this letter.

Sincerely,

Dale Klettke

Dale Klettke, CHMM
Hazardous Materials Specialist

c: Tom Peacock, Supervising Hazardous Materials Specialist--files
Mike Bakaldin, San Leandro Hazardous Materials Program
Paul Waite/Scott MacLeod, c/o Cambria, 1144 65th Street Suite B, Oakland, CA 94608

0988irap.orc

UNDERGROUND STORAGE [illegible]NK UNAUTHORIZED RELEASE (LEAK) [illegible]ONTAMINATION 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 HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.
BOARD: _____ DATE: _____

REPORT DATE: 11/20/96 — CASE #:

REPORTED BY
NAME OF INDIVIDUAL FILING REPORT: John B. Koch — PHONE: (510) 675-6143 — SIGNATURE: John B Koch 11/20/96
REPRESENTING: ☒ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ LOCAL AGENCY ☐ OTHER _____
COMPANY OR AGENCY NAME: Shell Oil Products Company
ADDRESS: 1390 Willow Pass Road, Ste. 900 — CITY: Concord — STATE: California — ZIP: 94520

RESPONSIBLE PARTY
NAME: Shell Oil Products Co, ☐ UNKNOWN — CONTACT PERSON: Jeff Byram — PHONE: (510) 675-6146
ADDRESS: 1390 Willow Pass Road, Ste. 900 — CITY: Concord — STATE: California — ZIP: 94520

SITE LOCATION
FACILITY NAME (IF APPLICABLE): Bob Farrell Shell — OPERATOR: Bob Farrell — PHONE: (510) 352-1250
ADDRESS: 1285 Bancroft Ave. — CITY: San Leandro, California, 94577
CROSS STREET: Estudillo Avenue — COUNTY: _____ — ZIP: _____

IMPLEMENTING AGENCIES
LOCAL AGENCY / AGENCY NAME: San Leandro Fire Department — CONTACT PERSON: Carl Bouchet — PHONE: (510) 577-3341
REGIONAL BOARD: SFBRWQCB — CONTACT PERSON: John Kaiser — PHONE: (510) 286-1255

SUBSTANCE(S) INVOLVED
(1) NAME: gasoline — QUANTITY LOST (GALLONS): _____ ☐ UNKNOWN
(2) NAME: _____ — QUANTITY LOST (GALLONS): _____ ☐ UNKNOWN

DISCOVERY/ABATEMENT
DATE DISCOVERED: 11/19/95 — HOW DISCOVERED: ☐ TANK TEST ☐ INVENTORY CONTROL ☐ TANK REMOVAL ☐ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☒ OTHER visual inspection
DATE DISCHARGE BEGAN: _____ ☒ UNKNOWN
HAS DISCHARGE BEEN STOPPED? ☒ YES ☐ NO IF YES, DATE: 11/19/95 — product removed
METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY): ☒ REMOVE CONTENTS ☐ CLOSE TANK & REMOVE ☐ REPAIR PIPING ☒ REPAIR TANK ☐ CLOSE TANK & FILL IN PLACE ☐ CHANGE PROCEDURE ☐ REPLACE TANK ☐ OTHER _____

SOURCE/CAUSE
SOURCE OF DISCHARGE: ☒ TANK LEAK ☐ UNKNOWN ☐ PIPING LEAK ☐ OTHER
CAUSE(S): ☐ OVERFILL ☐ RUPTURE/FAILURE ☐ SPILL ☐ CORROSION ☒ UNKNOWN ☐ 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: ☐ NO ACTION TAKEN ☒ PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED ☐ POLLUTION CHARACTERIZATION ☐ LEAK BEING CONFIRMED ☐ PRELIMINARY SITE ASSESSMENT UNDERWAY ☐ POST CLEANUP MONITORING IN PROGRESS ☐ REMEDIATION PLAN ☐ CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) ☐ CLEANUP UNDERWAY

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)
☐ VACUUM EXTRACT (VE) ☐ NO ACTION REQUIRED (NA) ☐ TREATMENT AT HOOKUP (HU) ☐ VENT SOIL (VS)
☒ OTHER (OT) Site Assessment/Workplan being prepared.

COMMENTS
TO: Tom Foyt — Call to Discuss — FAX #:
FROM: R. Jeff Granberry — DATE: 11/20/95 — PAGES INCLUDING THIS PAGE: 1 — FAX #: — PHONE #:

CAMBRIA Environmental Technology
1144 65th Street, Suite C • Oakland, CA 94608 • (510) 420-0700 • Fax (510) 420-9170

FAX TRANSMITTAL

TO: Mr. Dale Klettke

COMPANY: Alameda County Health Care Services

FAX NUMBER: (510) 337-9335

SUBJECT: Shell Service Station
WIC #204-6852-0703
1285 Bancroft, San Leandro

FROM: Paul Waite

DATE: January 28, 1997

PROJECT NUMBER:

PAGES TO FOLLOW: 1

COMMENTS:

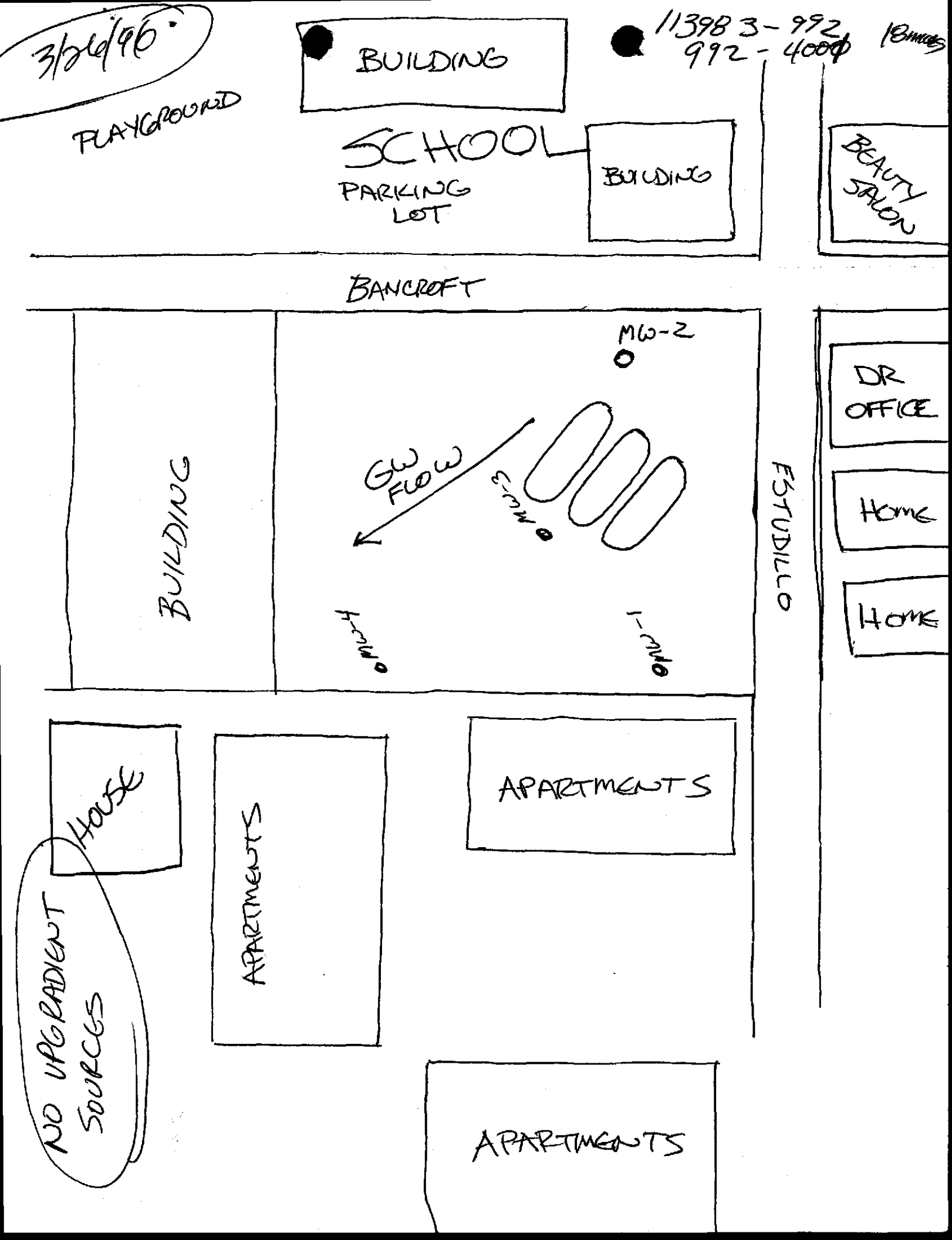
Dear Mr. Klettke:

Shell found this copy of a Form 5 Unauthorized Release Report in their 1995 files. It may never have been submitted to your office since the San Leandro Fire Department and the SFBRWQCB, but not Alameda County, are listed on the form as the implementing agencies. Please note that the Report Date of 11/20/96 on the form appears to be a typographical error.

With the submission of this Form 5, we believe that this site is in compliance. Please contact me if additional information is required. If not, please document that all of the information requested in your January 27, 1997 Notice of Violation has been submitted.

Thank you for your assistance.

Paul Waite


3/26/96
PLAYGROUND
BUILDING
11398 3-992
992-4000
18 UNITS
SCHOOL
PARKING LOT
BUILDING
BEAUTY SALON
BANCROFT
MW-2
GW FLOW
MW-3
MW-4
MW-1
BUILDING
ESTUDILLO
DR OFFICE
HOME
HOME
HOUSE
APARTMENTS
APARTMENTS
APARTMENTS
NO UPGRADIENT SOURCES

Weiss Associates
Environmental and Geologic Services
5500 Shellmound Street, Emeryville, CA 94608-2411 Fax: 510-547-5043 Phone: 510-450-6000

HAZMAT

94 SEP -2 PM 2:48

SHELL OIL CORPORATION

QUARTERLY REPORT TO

THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

Date of Report: August 30, 1994

Service Station WIC Number:	204-6852-0703
Site Address (Number, Street):	1285 Bancroft Boulevard
City:	San Leandro
County:	Alameda

Actions in the past three months:

Submitted closure report in May 1994

Actions planned for next three months:

Sampled MW-2 monthly starting in July and will report all results in 3rd Quarter 1994 Quarterly Report.

Soil Contamination defined? Y\N	Y
Soil Clean-up in progress? Y\N	N
Free-product plume defined? Y\N	N
Free-product cleanup in progress? Y\N	N
Dissolved constituent plume defined? Y\N	NA
Dissolved constituent cleanup in progress? Y\N	NA

Contractor: Weiss Associates, Emeryville, California.

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

STID 988

July 5, 1994

Mr. Dan Kirk
Shell Oil Company
P.O. Box 5278
Concord, CA 94520-9998

RE: SHELL SERVICE STATION, 1285 BANCROFT AVENUE, SAN LEANDRO

Dear Mr. Kirk:

I have recently completed review of the April 7, 1994 quarterly monitoring and May 3, 1994 "closure" investigation reports, both authored by Weiss Associates (WA). The April 7 report documents the results of well sampling and monitoring occurring at the referenced site during March 1994; the May 3 report documents the results of the installation of three additional soil borings, designated BH-D, -E, and -F, one of which (BH-F) was subsequently converted into monitoring well MW-4. This additional assessment work was based on the approved scope of work proposed in the October 29, 1993 WA work plan following our October 14, 1993 meeting.

Ground water sampled from well MW-2 exhibited a marked increase in TPH-G range and BTEX concentrations during the March 3, 1993 sampling event. An approximate 7-fold increase in TPH-G range compounds (from 1300 to 10,000 ppb) over those of the December 1993 event were noted in MW-2. Order-of-magnitude increases in BTEX concentrations over those recorded for December (e.g., from 110 to 1200 ppb benzene) were also identified. Such increases in contaminant concentrations were accompanied by an apparent and approximate 180° shift in ground water flow direction.

The May 3, 1994 report presents the comparatively unremarkable results of the installation of three borings with conversion of one into a ground water monitoring well, MW-4. This report specifically addresses the results of this additional assessment activity at the site.

Surprisingly, there is a lack of any interpretation or discussion of the March sampling/monitoring data presented in either the April 7 or May 3, 1994 reports. Recommendations for additional work, changes in sampling or monitoring frequencies, significance and possible explanations for these data, etc., as would be expected when such significant, unexpected changes in site status occur, were conspicuously absent. The obvious questions are: has there been a new release, or just an older one yet identified? Should we be directing our attention elsewhere, such as towards the dispenser islands?

At this time, please adhere to the following sampling and monitoring schedule:

- Ground water elevations in each well are to be measured and recorded monthly for the next two quarters, beginning July 1994.

- Ground water samples are to be collected from MW-2 on a monthly basis for the next quarter, or longer, until levels attenuate or otherwise stabilize. Samples are to be analyzed for TPH-G, BTEX and HVOCs.

- Ground water samples collected from MW-1, -3, and -4 are to collected quarterly and analyzed for TPH-G and BTEX.

Please be certain that future reports provide the level of professional interpretation we need to affect the best-informed, cost-effective decisions with respect to the direction in which this project should proceed in the future.

Please call me should you have any questions. Although we have recently moved to new offices (1131 Harbor Bay Parkway, 2nd Floor, Alameda 94502) and our permanent phone system is still not in place, you may reach me during the interim by calling 510/271-4320. Such calls will be routed to our phonemail system.

Sincerely,

Scott O. Seery, CHMM

cc: Rafat A. Shahid, Assistant Agency Director
Gil Jensen, Alameda County District Attorney's Office
Mike Bakaldin, San Leandro Fire Department
James Carmody, Weiss Associates

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

STID 988

December 8, 1993

Mr. Dan Kirk
Shell Oil Company
P.O. Box 5278
Concord, CA 94520-9998

RE: SHELL SERVICE STATION, 1285 BANCROFT AVENUE, SAN LEANDRO

Dear Mr. Kirk:

I have completed review of the October 29, 1993 Weiss Associates work plan submitted in the wake of our October 14, 1993 meeting. The cited work plan outlines proposed tasks associated with the need to assess ground water downgradient of the waste oil tank, and to evaluate the extent of fuel hydrocarbons in a sandy-gravel layer encountered at an approximate depth of 27 feet below grade in boring/well MW-2.

This work plan, which proposes the installation of an additional well and several exploratory borings, has been accepted as submitted. Please notify this office when field work is scheduled to begin. I may be reached at 510/271-4530.

Sincerely,

Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

cc: Rafat A. Shahid, Assistant Agency Director
Gil Jensen, Alameda County District Attorney's Office
Mike Bakaldin, San Leandro Fire Department
Scott MacLeod, Weiss Associates

SHELL OIL CORPORATION

QUARTERLY REPORT TO

THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

Date of Report: April 16, 1992

in city limits

Service Station WIC Number:	204-6852-0703
Site Address (Number, Street):	1285 Bancroft Boulevard
City:	San Leandro
County:	Alameda

Actions in the past three months:

Collected 1st quarter ground water samples and submitted 1st quarter monitoring report.
Installed two additional ground water monitoring wells.

Actions planned for next three months:

Continue quarterly ground water monitoring.
Submit 2nd quarter monitoring report.

Soil Contamination defined? Y\N	N
Soil Clean-up in progress? Y\N	N
Free-product plume defined? Y\N	NA
Free-product cleanup in progress? Y\N	NA
Dissolved constituent plume defined? Y\N	N
Dissolved constituent cleanup in progress? Y\N	N

Contractor: Weiss Associates, Emeryville, California.

Weiss Associates
Environmental and Geologic Services
5500 Shellmound Street, Emeryville, CA 94608-2411 Fax: 510-547-5043 Phone: 510-547-5420

March 19, 1992

Mr. Scott O. Seery
Alameda County Department
of Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, CA 94621-1426

Re: Shell Service Station
1285 Bancroft Avenue
San Leandro, California
WIC #204-6852-0703
WA Job #81-423-02

Dear Mr. Seery:

As you requested in your March 4, 1992 letter to Kurt Miller of Shell Oil Company, Weiss Associates (WA), on behalf of Shell, is submitting a check for $500 to cover Alameda County Department of Environmental Management project oversight costs at the Shell station referenced above.

Please call if you have any questions.

Sincerely,
Weiss Associates

N. Scott MacLeod
Project Geologist

NSM:nm
C:\WP51\SHELL\SANLEAND\423L1MR2.WP
Attachments: Check

cc: Dan Kirk, Shell Oil Company, P.O. Box 5278, Concord, California 94520-9998

Weiss Associates Environme.. ed Geologic Services

5500 Shellmound St., Emeryville, CA 94608-2411 **510-547-5420**

TO: Mr. Scott O. Seery
Alameda County Department of
Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, CA 94621-1426

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

RAFAT A. SHAHID, Assistant Agency Director

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

March 4, 1992

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

RE: SHELL SERVICE STATION, 1285 BANCROFT AVENUE, SAN LEANDRO 94578

Dear Mr. Miller:

The current account established in 1990 to fund the Department's oversight of the referenced site investigation has been depleted. The present account balance is $198.80 in arrears. This fact was discussed in some detail with you on December 20, 1991. In correspondence from this Department on that same date, you were requested to submit an additional $300. Since that time, monitoring reports/proposals have been reviewed, phone calls placed, and other time has been expended by staff on this project. Several "reminder" calls have been made to your voice mail system regarding the need for additional funds. To date, no additional monies have been received.

At this time you are directed to remit a deposit for $500 to cover the current account debit and to fund project oversight for the next several months. Please be reminded that such deposits are authorized by Section 3-141.6 of the Alameda County Ordinance Code. Please be advised that the county ordinance does provide for a collection mechanism to be invoked should responsible parties be recalcitrant in remitting appropriate fees.

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

Sincerely,

Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

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
Mike Bakaldin, San Leandro Fire Department

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

RAFAT A. SHAHID, Assistant Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
80 Swan Way, Rm. 210
Oakland, CA 94621
(415) 271-4300

January 10, 1992

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

RE: **SHELL SERVICE STATION, 1285 BANCROFT AVENUE, SAN LEANDRO**

Dear Mr. Miller:

This Department is in receipt and has completed review of the December 10, 1991 Weiss Associates (WA) addendum to their September 23, 1991 work plan which proposes the scope of the required additional environmental work at the referenced site. This work plan, as amended, has been accepted, with the following conditions:

1) The Site Safety Plan must reflect 29 CFR Part 1910.120 required elements.

2) Ground water sampling should occur a minimum of 24 hours after well development.

3) Well purging adequacy should be verified by the apparent stabilization of pH, temperature, and conductance measurements.

Please follow the reporting and sampling frequencies outlined in the August 22, 1991 correspondence from this office. If you so choose, you may include the results of this additional work in the 1992 first quarter report, due May 1st, as opposed to issuing a separate document.

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

Sincerely,

Scott O. Seery, CHMM
Hazardous Materials Specialist

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, DTSC
Mike Bakaldin, San Leandro Fire Department
Joseph Theisen, Weiss Associates

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)

December 20, 1991

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

RE: SHELL SERVICE STATION, 1285 BANCROFT AVENUE, SAN LEANDRO, ALAMEDA COUNTY

Dear Mr. Miller:

As we discussed today by phone, the Department requires that responsible parties remit a deposit to cover costs associated with our oversight of site investigations and remediations, among other activities associated with underground storage tank sites. Such deposits are authorized by Section 3-141.6 of the Alameda County Ordinance Code, and are placed into a site-specific account from which funds are drawn at the current rate of $67 per hour as time is dedicated to the project(s). Funds remaining in the account upon completion of a project will be refunded. Conversely, should these funds be depleted before project completion, additional funds will be requested.

As we further discussed, your original oversight account has been depleted. Please remit an additional deposit of **$300** to offset the current negative balance of $45, and to provide oversight funding for the next several months.

Thank you in advance for your prompt attention to this matter. Please call me at 510/271-4320 should you have any questions.

Sincerely,

Scott O. Seery, CHMM
Hazardous Materials Specialist

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, DTSC
Mike Bakaldin, San Leandro Fire Department
files

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

EHT File

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

November 18, 1991

Mr. Joseph P. Theisen
Weiss Associates
5500 Shellmound Street
Emeryville, CA 94608

RE: **SHELL SERVICE STATION, 1285 BANCROFT AVENUE, SAN LEANDRO, ALAMEDA COUNTY** 94577

Dear Mr. Theisen:

This Department is in receipt and has completed review of the September 23, 1991 Weiss Associates (WA) work plan describing proposed additional investigative work at the referenced site. The scope of this additional work was first outlined in correspondence from this Department dated August 22, 1991, and includes the installation of two (2) additional ground water monitoring wells. The opinions expressed in this letter are in concurrence with those of the San Francisco Bay Regional Water Quality Control Board (RWQCB).

The Department's review was performed in context with the technical requirements outlined in the RWQCB Staff Recommendations for the Initial Evaluation and Investigation of Underground Tanks and the SWRCB LUFT Manual. The September 23 WA proposal may be approved provided the following points are clarified and the requested technical information submitted to the satisfaction of this Department:

1) Submit a site-specific Site Safety Plan which adheres to the requirements of 29 CFR Part 1910.120.

2) Provide a schematic well construction diagram.

3) Describe well drilling and construction method, including decontamination measures.

4) Indicate type, diameter, screen interval, and pack and slot sizing technique. Describe depth and type of seal.

5) Describe well development method and criteria for determining adequacy of development.

6) Describe water level measurement procedures (e.g., optical probe, steel tape, etc.).

7) Describe methods employed for free product measurement, and the observation of sheen and odor.

8) Describe well purging procedures prior to sampling.

9) Describe sample collection (both soil and ground water), sample QA/QC, and chain-of-custody procedures, and field screening techniques. Soil samples are to be collected every 5 feet of boring advancement, significant changes in lithology, and at any time there are "hits" on field screening instruments.

10) **All** collected soil and ground water samples submitted to the state-certified laboratory must be analyzed for TPH-G and -D, BTEX, and halogenated volatile organic compounds.

Please submit the requested information within 30 days in the form of an addendum to the original September 23 work plan. Once approved, we will expect work to commence within 30 days of the approval date. Thank you in advance for your timely cooperation in this matter.

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

Sincerely,

Scott O. Seery, CHMM
Hazardous Materials Specialist

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, DTSC
Mike Bakaldin, San Leandro Fire Department
Jack Bradstad, Shell Oil Company
files

SHELL OIL CORPORATION

QUARTERLY REPORT TO

THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

Date of Report: December 17, 1991

Service Station WIC Number:	20468520703
Site Address (Number, Street):	1285 Bancroft Boulevard
City:	San Leandro
County:	Alameda

Actions in the past three months:

Collected 4th quarter ground water samples and submitted 4th quarter status report.

Actions planned for next three months:

Install two additional ground water monitoring wells
Continue quarterly ground water monitoring.

Soil Contamination defined? Y\N	N
Soil Clean-up in progress? Y\N	N
Free-product plume defined? Y\N	N
Free-product cleanup in progress? Y\N	N
Dissolved constituent plume defined? Y\N	N
Dissolved constituent cleanup in progress? Y\N	N

Contractor: Weiss Associates, Emeryville, California.

SHELL OIL CORPORATION

QUARTERLY REPORT TO

THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

Date of Report: September 16, 1991

Service Station WIC Number:	20468520703
Site Address (Number, Street):	1285 Bancroft Boulevard 94577
City:	San Leandro
County:	Alameda

Actions in the past three months:

Collected 3rd quarter ground water samples and submitted 3rd quarter status report.

Actions planned for next three months:

Continue quarterly ground water monitoring.

Soil Contamination defined? Y\N	N
Soil Clean-up in progress? Y\N	N
Free-product plume defined? Y\N	NA
Free-product cleanup in progress? Y\N	NA
Dissolved constituent plume defined? Y\N	N
Dissolved constituent cleanup in progress? Y\N	N

Contractor: Weiss Associates, Emeryville, California.

WEISS ASSOCIATES
Geologic and Environmental Services
Fax: 415-547-5043 Phone: 415-547-5420
5500 Shellmound Street, Emeryville, CA 94608

February 23, 1990

Mr. E. Paul Hayes
Shell Oil Company
P.O. Box 4848
Anaheim, California 92803

Re: Shell Service Station
WIC #204-685-207
1285 Bancroft Avenue
San Leandro, California
WA Job #81-423-03

Dear Mr. Hayes:

This letter outlines Weiss Associates' (WA) proposed Scope of Work (SOW) for a subsurface investigation at the subject Shell Service Station (Figure 1). The objective of the work is to determine if hydrocarbons and/or volatile organic compounds (VOCs) are present in soil and ground water adjacent to the location of a former waste oil tank, and, if water quality is not degraded, to obtain regulatory closure for the excavation associated with the November 1986 removal of the waste oil tank. Presented below are a site history summary and an outline of our proposed SOW.

SITE HISTORY

Shell Oil Company records indicate that a steel 550-gallon waste oil tank was removed from the site in November 1986 by Petroleum Engineering of Santa Rosa, California, and was replaced with a 550-gallon fiberglass tank. The removed steel tank was apparently installed in 1969.

Following the waste oil tank removal, Blaine Tech Services of San Jose, California, observed and documented the tank condition and collected soil samples from directly beneath the former tank location, at depths of 8.75 ft and 9 ft.[1] Since total oil and grease (TOG) was detected at 83 parts per million (ppm) and 583 ppm, respectively, in these samples, additional soil was excavated from the bottom of the tank pit, and Blaine Tech collected a soil sample from 9.5 ft depth. The soil sample from 9.5 ft contained TOG at 89.3 ppm.

[1] Blaine Tech Services, 1986, Results of soil sampling, Shell Service Station, 1285 Bancroft Avenue, San Leandro, California, consultant's letter report prepared for Shell Oil Company, November 11, 1986, 3 pp. and 2 attachments.

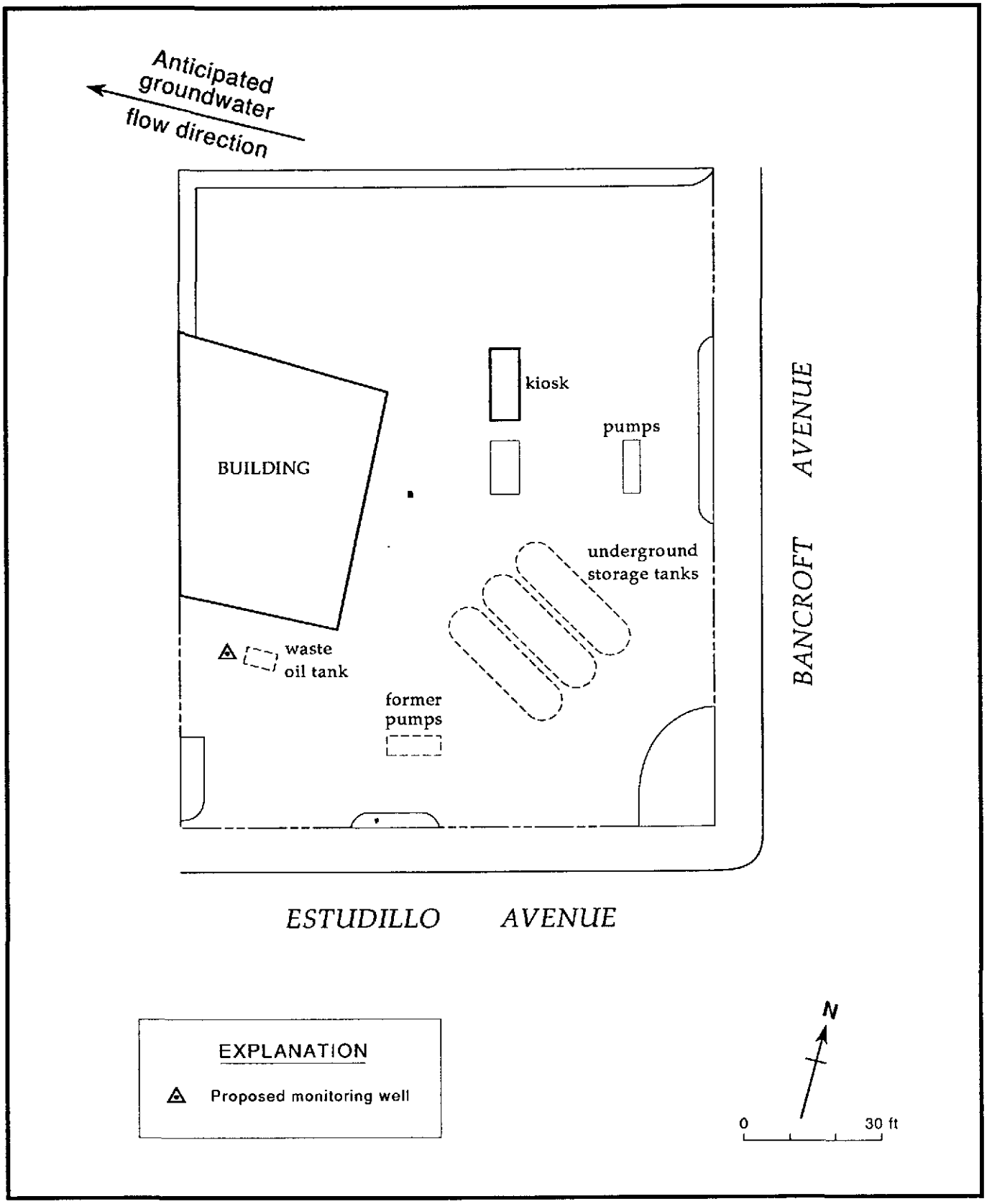


Figure 2. Proposed Monitoring Well Location - Shell Service Station, 1285 Bancroft Avenue, San Leandro, California

2/20/90

According to Blaine Tech field notes and San Leandro Fire Department records, no ground water was encountered in the excavation, and the steel tank had visible holes when it was removed.

Backfill and native soil removed during the excavation and rinseate from the tank steam cleaning were taken to Chemical Waste Management, Inc., of Kettleman City, California, for disposal by a California licensed waste hauler. Copies of the hazardous waste manifests for soil and rinseate are presented as Attachment A.

Since over 100 ppm TOG was detected in soil beneath the former waste oil tank, Shell Oil has retained WA to perform a subsurface investigation at this site to determine if hydrocarbons or VOCs are in soil and/or ground water downgradient of the waste oil tank.

PROPOSED SCOPE OF WORK

Our proposed SOW for the investigation is to:

1) Review the site history and prepare a site safety plan,

2) Identify wells within one-half mile of the site and prepare a map showing their locations relative to the site,

3) Obtain all permits and drill one on-site soil boring adjacent to the location of the former waste oil tank. Collect soil samples for subsurface hydrogeologic description and for possible chemical analysis,

4) Complete the boring as a 4-inch-diameter ground water monitoring well,

5) Develop the well, collect water samples and analyze the samples for hydrocarbons and VOCs,

6) Review the analytic results for the soil and ground water samples and, based on the analytic results, drill/install additional borings and wells to estimate the horizontal extent of hydrocarbons in soil and ground water on- and offsite,

7) If additional wells are installed, survey top-of-casing elevations of all the wells and verify the ground water gradient beneath the site,

8) Perform an area reconnaissance to locate possible off-site hydrocarbon sources and prepare a map of the surrounding properties and businesses,

9) Arrange for disposal of the drill cuttings and well purge water,

10) Report the subsurface investigation results,

11) Sample ground water quarterly for at least a year,

12) Prepare quarterly status reports, and

13) Recommend additional work to achieve closure of the former tank excavation.

Each of these tasks is described in detail below.

TASK 1 - REVIEW SITE HISTORY AND PREPARE A SITE SAFETY PLAN

Based upon the site history, previous work and analytic results for soil samples collected at the site, WA will prepare a site-specific safety plan. The safety plan will identify potential site hazards and specify procedures to protect site workers and the public.

TASK 2 - AREA WELL SURVEY.

An area well survey will be conducted to locate and identify water wells within one-half mile of the site. The survey will consist of reviewing California Department of Water Resources (DWR) and Alameda County records, and visually surveying by the site vicinity. The well locations will be shown on a map and the owners and uses of the wells will be tabulated. The results of the survey will be included in the investigation report.

TASK 3 - SOIL BORING AND SOIL CHEMICAL ANALYSIS

We will obtain well construction permits from Alameda County Flood Control and Water Conservation District (Zone 7). Based on the documented regional ground water flow direction

toward the west,[2] the location of site structures and the location of the former waste oil tank excavation, we will drill one soil boring at the proposed location shown on Figure 1. The boring is located in the anticipated downgradient direction from the former waste oil tank excavation.

The drill cuttings and soil samples will be described and the samples will be screened with a portable photoionization detector (PID). The boring will be continuously cored and logged to total depth to fully characterize the subsurface materials. At least one soil sample will be collected and analyzed from just above the water table.

The samples will be submitted to a Shell-approved state-certified laboratory under chain-of-custody procedures for the following analyses:

- Total petroleum hydrocarbons as gasoline (TPH-G) by modified EPA Method 8015, gas chromatography with flame ionization detection (GC/FID),
- Aromatic hydrocarbons including benzene, ethylbenzene, toluene and xylenes (BETX) by EPA Method 8020, gas chromatography with photoionization detection (GC/PID),
- VOCs by EPA Method 8010, gas chromatography with electrolytic conductivity detection (GC/HALL), and
- TOG by American Public Health Association (APHA) Standard Method 503D and 503E.

The soil sample just above the water table will also be analyzed for:

- Total petroleum hydrocarbons as diesel (TPH-D) by modified EPA Method 8015 (GC/FID).

Based on the results of these analyses, we may analyze the samples for additional compounds as per California Regional Water Quality Control Board guidelines.[3]

---

[2] Alameda County Flood Control and Water Conservation District, 1988, Geohydrology and Groundwater - Quality Overview, East Bay Plain Area, Alameda County, California, 205(J) Report, 83 pp. and 6 appendices.

[3] North Coast, San Francisco Bay and Central Valley Regional Water Quality Control boards, June 2, 1988 (revised November 9, 1989), Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks, 18 pp.

One composite sample from the boring will be analyzed for TPH-G, BETX, TOG and for total and organic lead to characterize the cuttings for disposal. Flashpoint and soluble lead analyses will be performed if warranted by the earlier results.

Drill cuttings will be stockpiled onsite on plastic sheeting pending analytic results for the composite samples. The stockpile will also be covered with plastic sheeting to prevent possible aeration of volatile compounds. Based on the analytic results the soil will then be transported to an appropriate facility for disposal by a licensed waste hauler, and will be properly tracked and documented.

TASK 4 - GROUND WATER MONITORING WELLS

A ground water monitoring well will be installed in the soil boring. The well will be constructed with 4-inch-diameter, 0.02-inch slotted PVC well screen and blank casing. Number 3 Monterey sand will be placed in the annular space between the casing and the borehole from the bottom of the boring to 1 to 2 ft above the screened interval. About 2 ft of bentonite pellets will separate the sand from the sanitary seal. Cement mixed with 3-5% bentonite powder will be used to prevent infiltration of surface water into the well.

The well will be screened to monitor the first water-bearing zone encountered and to determine the presence or absence of floating hydrocarbons. If a confining layer is encountered below the first water-bearing zone, its thickness will be confirmed with decreasing-sized split barrel samplers. The sampling hole through the underlying confining layer will be sealed with bentonite pellets.

TASK 5 - WELL DEVELOPMENT, SAMPLING AND GROUND WATER CHEMICAL ANALYSIS

The monitoring well will be developed using at least two episodes of surge block agitation and airlift evacuation, and the flow rate for the well will be estimated. Airlift evacuation will continue until at least ten well casing volumes have been removed, and the water is as free of fine sediments as possible. Ground water removed from the well will be temporarily stored onsite in 55-gallon drums.

Ground water samples will be collected at least 24 hours after the well is developed. Prior to sampling, at least four well casing volumes of ground water will be evacuated using a steam-cleaned PVC bailer. The well will then be allowed to recover to at least 80% of its original water level before sampling. Water samples will be collected with a steam-cleaned Teflon bailer, and will be decanted into 40-ml glass vials, labeled and refrigerated for transport under chain-of-custody to the analytic laboratory. To reduce the possibility of sample contamination during transport or storage, each sample will be sealed in a plastic guard bottle. Chain-of-custody records will be maintained for all samples. Purged ground water will be stored temporarily onsite in 55-gallon drums pending analytic results.

A trip blank will be collected to check for carry-over of VOCs during transport. A bailer blank will also be collected and analyzed as a quality assurance measure.

Ground water samples will be analyzed for:

- TPH-G and D by Modified EPA Method 8015, GC/FID,
- BETX by EPA Method 8020, GC/PID,
- VOCs by EPA Method 601, GC/ECD, and
- TOG by APHA Standard Methods 503A&E.

The results of the above analyses will determine whether analysis for additional compounds is necessary.

Prior to well sampling, an electronic water-oil interface probe and a specially designed product thickness bailer will both be used to measure product thickness in the well if free-floating hydrocarbons are present.

TASK 6 - ADDITIONAL SOIL BORINGS AND/OR GROUND WATER MONITORING WELLS

The analytic results for soil and ground water will be reviewed. Additional soil borings and/or monitoring wells will be recommended as necessary to assess the extent of hydrocarbons in soil and/or ground water beneath and adjacent to the site. All additional wells will be developed and sampled according to the protocol outlined above for the initial-phase well. The soil and ground water samples will be analyzed for TPH-G, BETX, TOG and all other compounds detected during the initial phase of investigation. Analytic results and construction

details for all wells will be presented in the final investigation report once the extent of dissolved hydrocarbons in soil and ground water is adequately defined.

TASK 7 - ELEVATION SURVEY

If additional wells are installed, the top-of-casing elevations of all monitoring wells will be surveyed, relative to mean sea level, by a California licensed land surveyor. Water table elevation data will then be tabulated and a ground water elevation contour map will be prepared.

TASK 8 - ADJACENT PROPERTY SURVEY

Properties within at least one block of the site will be observed by WA personnel to indicate potential nearby off-site sources of hazardous materials to the subsurface. A map indicating the location and apparent use of the nearby properties will be prepared.

TASK 9 - DISPOSAL

Disposal of the soil cuttings and purged ground water will be determined by the soil and ground water analytic results. All contaminated soil and ground water extracted from the site will be properly tracked and documented.

TASK 10 - SUBSURFACE INVESTIGATION REPORT

A report presenting the results of the investigation will be prepared when WA fully defines the extent of hydrocarbons in soil and ground water. The report will include:

- A summary of the results,
- Site background and history,
- Topographic and geologic setting,

- Site location map,
- Land and ground water use in the vicinity,
- Rationale for well placement and design, and descriptions of well construction, development and sampling,
- Tabulated soil and ground water analytic results, and all data collected during well development, purging and sampling, including estimated flow rate, pH, temperature and electrical conductivity,
- Tabulated ground water elevation data and a water table elevation contour map,
- Conclusions,
- Appendix A: Boring logs
- Appendix B: Chain-of-custody forms, and
- Appendix C: Laboratory Analytic Reports.

TASK 11 - QUARTERLY GROUND WATER SAMPLING

Ground water from the monitoring well will be sampled quarterly for at least one year, including the initial sampling. If additional wells are installed, they will be added to the quarterly monitoring program.

TASK 12 - QUARTERLY REPORTS

WA will prepare status reports every three months which present all available analytic results, analytic reports, and brief summaries of work performed at the site in the previous quarter. The report summarizing activities for the first quarter of 1990 will be submitted to Shell by April 30, 1990.

SCHEDULE

We expect to begin drilling at this site during the first week of March 1990. Well development and initial water sampling will be scheduled for the week following drilling. A comprehensive report presenting the results of the investigation will be prepared when the extent of hydrocarbons in soil and ground water is adequately defined.

Please call Karen Sixt or Joe Theisen if you have questions about our proposed SOW. We appreciate the opportunity to provide hydrogeologic consulting services to Shell Oil, and trust that this proposal meets your needs.

Sincerely,
Weiss Associates

Karen C. Sixt
Staff Geologist

Eric M. Nichols
Senior Water Resources Engineer

KCS/EMN:kw

D:\ALL\SHELL\423L1JA0.WP

Attachment A: Hazardous waste manifests for soil and tank rinseate

cc: Lawrence Seto, Alameda County Department of Environmental Health, Hazardous Materials Division, 80 Swan Way, Room 200, Oakland, California 94621

Lester Feldman, California Regional Water Quality Control Board - San Francisco Bay Region, 1800 Harrison Street, Oakland, California 94612

ATTACHMENT A

HAZARDOUS WASTE MANIFESTS

MDH-06192, WIC#[illegible]-6852-0703-EBD R A 4[illegible]

State of California—Health and Welfare Agency

Please print or type. *(Form designed for use on elite (12-pitch) typewriter.)*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	CAD981402662
Manifest Document No.	06192
2. Page 1	of 1
Information in the shaded areas is not required by Federal law.	
A. State Manifest Document Number	86205883
B. State Generator's ID	
C. State Transporter's ID	909795
D. Transporter's Phone	800-821-0471
E. State Transporter's ID	
F. Transporter's Phone	
G. State Facility's ID	CAT000646117
H. Facility's Phone	209-386-9711

3. Generator's Name and Mailing Address
SHELL OIL COMPANY, P.O. BOX 6249,
CARSON, CA 90749

GENERATING SITE
SHELL STATION
1285 BANCROFT
SAN LEANDRO, CA 94577

4. Generator's Phone (213) 816-2037

5. Transporter 1 Company Name: CROSBY & OVERTON, EMI
6. US EPA ID Number: CAD931461064

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT
35251 OLD SKYLINE RD.
KETTLEMAN CITY, CA 93239

10. US EPA ID Number: CAT000646117

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. HAZARDOUS WASTE,LIQUID,N.O.S., ORM-E, NA9189	01	DT	065	G	342
b.					
c.					
d. EXTREMELY HAZARDOUS WASTE PERMIT #2-7352					

J. Additional Descriptions for Materials Listed Above
WATER (48-50%) HALOGENATED ORGANICS (290-300ppm)
OIL (10-12%)
SEDIMENT (30-35%)
TOXIC METALS (TTLC) LEAD 2%, OTHER 1%=(2-3%)

K. Handling Codes for Wastes Listed Above: 04/03

15. Special Handling Instructions and Additional Information WEAR GLOVES & GOGGLES. AVOID CONTACT WITH EYES AND AND SKIN. FINAL DISPOSAL TO BE AT CHEMICAL WASTE MANAGEMENT,INC., CAT000646117 CHEMICAL WASTE MANAGEMENT PROFILE SHEET NUMBER E24628.

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to [illegible] a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment.

Printed/Typed Name	Signature	Month Day Year
STANLEY J. ROLLER	[signature]	1 1 06 86

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
Richard Campbell	Richard Campbell	1 1 6 86

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

19. Discrepancy Indication Space
13a unable to verify quantity

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month Day Year
Stephen Pickell KT	[signature]	1 1 1 86

DHS 8022 A (11/85)
(EPA 8700—22)

YELLOW: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

7) Describe methods employed for free product measurement, and the observation of sheen and odor.

8) Describe well purging procedures prior to sampling.

9) Describe sample collection (both soil and ground water), sample QA/QC, and chain-of-custody procedures, and field screening techniques. Soil samples are to be collected every 5 feet of boring advancement, significant changes in lithology, and at any time there are "hits" on field screening instruments.

10) **All** collected soil and ground water samples submitted to the state-certified laboratory must be analyzed for TPH-G and -D, BTEX, and halogenated volatile organic compounds.

Please submit the requested information within 30 days in the form of an addendum to the original September 23 work plan. Once approved, we will expect work to commence within 30 days of the approval date. Thank you in advance for your timely cooperation in this matter.

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

Sincerely,

Scott O. Seery, CHMM
Hazardous Materials Specialist

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, DTSC
Mike Bakaldin, San Leandro Fire Department
Jack Bradstad, Shell Oil Company
files

State of California—Health and Welfare Agency

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CAD981402662
Manifest Document No.: 10013
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address:
SHELL OIL COMPANY, PO BOX 6249
CARSON, CA 90749

GENERATING SITE
SHELL STATION
1285 BANCROFT
SAN LEANDRO, CA 94577

4. Generator's Phone (213) 816-2037

A. State Manifest Document Number: 86102739
B. State Generator's ID: TAX ID NO. HY HQ 36-010177

5. Transporter 1 Company Name: CROSBY & OVERTON EMI BA533
6. US EPA ID Number: CAD981461064
C. State Transporter's ID: 9110799
D. Transporter's Phone: 1-800-821-2424

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address:
CHEMICAL WASTE MANAGEMENT, INC
35251 OLD SKYLINE RD
KETTLEMAN CITY, CA 93239

10. US EPA ID Number: CAT000646117
G. State Facility's ID: CAT000646117
H. Facility's Phone: 209-386-9711

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. DOT Unregulated Hazardous Waste Solid "California Regulated Waste Only"	001	DT	18	Y	611
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above:
SOIL CONTAMINATED W/WASTE OIL 19919A
LEAD-TTLC 14.00ppm STLC .080ppm

K. Handling Codes for Wastes Listed Above: 03

15. Special Handling Instructions and Additional Information:
AVOID CONTACT WITH EYES AND SKIN.
CWM#F56184-022

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment.

Printed/Typed Name: STANLEY J. ROLFE — Signature: [signature] — Month Day Year: 01/26/87

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JON FRASER — Signature: [signature] — Month Day Year: 01/26/87

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: FRED ISA JR. — Signature: [signature] — Month Day Year: 01/27/87

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Stephen Pickell/RT — Signature: [signature] — Month Day Year: 01 27 87

DHS 8022 A (11/85)
(EPA 8700—22)

YELLOW: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

State of California—Health and Welfare Agency
Please print or type. *(Form designed for use on elite (12-pitch) typewriter.)*

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD981402662 Manifest Document No. 43
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SHELL OIL COMPANY, PO BOX 6249
CARSON, CA 90749

4. Generator's Phone (213) 816-2037

GENERATING SITE
SHELL STATION
1285 BANCROFT
SAN LEANDRO, CA 94577

A. State Manifest Document Number 86102672
B. State Generator's ID TAX ID NO. BY BO 36-010177

5. Transporter 1 Company Name
CROSBY & OVERTON EMI BA533
6. US EPA ID Number CAD981461964
C. State Transporter's ID
D. Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC
35251 OLD SKYLINE RD
KETTLEMAN CITY, CA 93239
10. US EPA ID Number CAT000646117
G. State Facility's ID
H. Facility's Phone

11. US DOT Description *(Including Proper Shipping Name, Hazard Class, and ID Number)*	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. DOT Unregulated Hazardous Waste Solid "California Regulated Waste Only"	001	DT		Y	611
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above
SOIL CONTAMINATED W/WASTE OIL, 99.9+%
LEAD-TTLC 14.00ppm STLC .080ppm

K. Handling Codes for Wastes Listed Above
03

15. Special Handling Instructions and Additional Information
AVOID CONTACT WITH EYES AND SKIN.

CWM#F56184-022

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

Unless I am a small quantity generator who has been exempted by statute or regulation from the duty to make a waste minimization certification under Section 3002(b) of RCRA, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment.

Printed/Typed Name	Signature	Month	Day	Year
STANLEY J. RULIFF		10	26	87

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Lee ALTon, JR		10	28	87

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Stephen Pickell RT		10	27	87

GENERATOR
TRANSPORTER
FACILITY

DHS 8022 A (11/85)
(EPA 8700—22)

YELLOW: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS

16.05+

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)

August 22, 1991

Mr. Jack Bradstad
Shell Oil Company
P.O. Box 5278
Concord, CA 94520

685-3851
(510) 685 3853 Kurt Miller

RE: SHELL SERVICE STATION, 1285 BANCROFT AVENUE, SAN LEANDRO, ALAMEDA COUNTY

Dear Mr. Bradstad:

This office is in receipt of the April 11, 1991 Weiss Associates (WA) report documenting the results of ground water monitoring and sampling occurring during the first quarter of 1991 at the referenced Shell site.

Review of this report indicates that the chlorinated solvent PCE is found in concentrations an order of magnitude above current state MCLs; chloroform is also found, but in concentrations yet to exceed its MCL. This data tends to confirm that a release from the former waste oil underground storage tank (UST) had occurred, particularly when noting that ground water is presently found approximately 43 feet below grade.

The data further suggests that there may be an "old" fuel release at this site, in addition to the release from the waste oil tank. An old fuel release is suggested by the presence of fairly low concentrations of the volatile fuel constituents TEX and nondetectable benzene, when compared to the relative concentrations of TPH-G/D found in ground water samples collected since March 1990.

Further, in the absence of definitive ground water gradient data, it is unclear whether well MW-1 is down- or cross-gradient from either the former waste oil tank or the fuel UST cluster. The WA reports "anticipate" that ground water flows to the west, which would place MW-1 somewhat downgradient of the fuel UST cluster, and cross-gradient from the former waste oil tank.

Following review of data presented in this and previous WA reports, including the waste oil tank closure and well installation reports dated October 17, 1989 and July 31, 1990, respectively, the Department and RWQCB have concurred that additional work and the submittal of additional information is required to better define the extent of environmental impacts associated with past or present releases from the UST(s) at this site.

The required tasks are as follows:

1) Submit a work plan for the installation of additional monitoring wells. Such wells are to be in sufficient number and appropriately located to enable calculation of the site-specific ground water gradient and flow direction, and to define the extent, or "zero-line", the contaminant plume;

2) Reinstate quarterly sampling for well MW-1;

3) Reinstate quarterly report submittal schedule. Such quarterly reports are required by Section 2652(d) of Title 23, California Code of Regulations (CCR);

4) **Submit the boring log for well MW-1, completed during March 1990.**

The work plan submitted in response in Task 1, above, must adhere to the technical requirements outlined in the RWQCB Staff Recommendations for the Initial Evaluation and Investigation of Underground Tanks and the SWRCB LUFT manual. This work plan is due within 30 days of the date of this letter, **or by September 23, 1991.**

A report must be submitted within 45 days after completion of field activities associated with this newest phase of work at the site. Subsequent reports are to be submitted quarterly (Task 3) until this site qualifies for final RWQCB "sign-off." In order to establish a routine reporting schedule, such quarterly reports are due the first day of the second month of each subsequent quarter (i.e., November 1, February 1, May 1, and August 1). Hence, a report documenting activities occurring during the third quarter of 1991 is due for submittal by November 1; that documenting work during the the fourth quarter 1991, February 1, 1992, and so forth.

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

- 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.

- Status of ground water contamination characterization
- Interpretation of results: water level contour maps showing gradients, free and dissolved product plume definition maps for each target component, geologic cross sections, etc.
- Recommendations or plans for additional investigative work or remediation

Further, please adhere to the following minimum schedule for the next year for monitoring/sampling of new and existing wells at this site:

- Water levels in **each** well are to be measured and recorded monthly for the next year. This schedule begins when the new wells are completed. This frequency will be reduced to quarterly after the first year;
- All new wells are to be sampled **monthly** for the first quarter. Such monthly sampling may be reduced to quarterly after the first three months if concentrations of target compounds remain stable or diminish. Reinstate **quarterly** sampling of MW-1 (Task 2);

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.

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 415/271-4320.

Sincerely,

Scott O. Seery, CHMM
Hazardous Materials Specialist

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
Mike Bakaldin, San Leandro Fire Department
Joseph Theisen, Weiss Associates
files

SHELL OIL CORPORATION

QUARTERLY REPORT TO

THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

Date of Report: March 15, 1991

Service Station WIC Number:	20468520703
Site Address (Number, Street):	1285 Bancroft Boulevard
City:	San Leandro
County:	Alameda

Actions in the past three months:

Collected 4th quater ground water samples and submitted quarterly status report.

Actions planned for next three months:

Continue quarterly ground water monitoring.

Soil Contamination defined? Y\N	N
Soil Clean-up in progress? Y\N	N
Free-product plume defined? Y\N	NA
Free-product cleanup in progress? Y\N	NA
Dissolved constituent plume defined? Y\N	N
Dissolved constituent cleanup in progress? Y\N	N

Contractor: Weiss Associates, Emeryville, California.
