ALAMEDA COUNTY HEALTH CARE SERVICES









ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250

Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

May 11, 2006

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

J.T., Elizabeth G., W.T., and Jeanette Watters, Trust 600 Caldwell Road Oakland, CA 94611

Subject: Fuel Leak Case No.

o, Shell, 285 Hegenberger Road, Oakland, CA

Dear Mr. Brown:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site and the report entitled, "Site Conceptual Model," dated April 14, 2006. The report summarizes the site history and site conceptual model and also presents recommendations for future tasks. The report recommends verifying whether VM-1 through VM-4 still exist, conducting file reviews, and obtaining utility maps for Hegenberger Road to construct geologic cross sections. The proposed tasks are acceptable to ACEH.

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

TECHNICAL COMMENTS

1. Investigation for Adjacent Property at 295 Hegenberger Road. The Site Conceptual Model recommends reviewing historical concentrations and the current status of environmental investigations at 295 Hegenberger Road. A brief review of ACEH files indicates that the fuel leak case at 295 Hegenberger Road (case RO723) was closed on May 14, 1996. One monitoring well, apparently installed within the tank backfill, was sampled five times from 8/26/94 to 8/17/95. Based on information in the case closure summary, total petroleum hydrocarbons as gasoline and BTEX were not detected in groundwater with reporting limits of 50 and 0.5 ppb, respectively. TPH as diesel was detected at concentrations up to 830 ppb in groundwater samples from the monitoring well.

TECHNICAL REPORT REQUEST

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

November 15, 2006 – Semi-Annual Monitoring Report for the Third Quarter 2006

Denis Brown J.T., Elizabeth G., W.T., and Jeanette Watters, Trust May 11, 2006 Page 2

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

Effective **January 31, 2006**, the Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program ftp site are provided on the attached "Electronic Report Upload (ftp) Instructions." Please do not submit reports as attachments to electronic mail.

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

PERJURY STATEMENT

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

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

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

Denis Brown J.T., Elizabeth G., W.T., and Jeanette Watters, Trust May 11, 2006 Page 3

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 Wickblam

Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Cynthia Vasko
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608

Donna Drogos, ACEH Jerry Wickham, ACEH File







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

December 20, 2005

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

J.T., Elizabeth G., W.T., and Jeanette Watters, Trust 600 Caldwell Road
Oakland, CA 94611

Subject: Fuel Leak Case No. 285 Hegenberger Road, Oakland, CA

Dear Mr. Brown:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site and the reports entitled, "Additional Interim Remediation Report," dated June 30, 2005 and "Fourth Quarter 2005 Monitoring Report," dated December 14, 2005. Both reports were prepared on Shell's behalf by Cambria Environmental Technology, Inc. The Interim Remediation Report presents the results of interim dual-phase extraction (DPE) conducted at the site in April 2005. The results of the interim DPE indicate that soils at the site have low permeability to air and groundwater flow, which limits the effectiveness of in-situ remedial technologies. Elevated concentrations of fuel hydrocarbons continue to be detected in groundwater in on-site monitoring wells but concentrations are significantly lower in off-site wells. The fuel hydrocarbon plume has stabilized within the immediate area of the site or is being intercepted by utilities crossing or adjacent to the site. We concur with the recommendation in the "Additional Interim Remediation Report" to prepare a Site Conceptual Model (SCM) to summarize site data and identify any data gaps.

Please address the following technical comments, perform the proposed work, and send us the reports described below.

TECHNICAL COMMENTS

1. Groundwater Monitoring. Groundwater monitoring has been ongoing at this site since 1989. Based on the long-term monitoring data available for the site, a reduction in monitoring frequency from quarterly to semi-annual is acceptable. Please present recommendations for future groundwater monitoring in the reports requested below.

TECHNICAL REPORT REQUEST

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

Denis Brown J.T., Elizabeth G., W.T., and Jeanette Watters, Trust December 20, 2005 Page 2

 April 14, 2006 – Site Conceptual Model and Quarterly Monitoring Report for the First Quarter 2006

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

Effective **January 31, 2006**, the Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program ftp site are provided on the attached "Electronic Report Upload (ftp) Instructions." Please do not submit reports as attachments to electronic mail.

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In order to facilitate electronic correspondence, we request that you provide up to date electronic mail addresses for all responsible and interested parties. Please provide current electronic mail addresses and notify us of future changes to electronic mail addresses by sending an electronic mail message to me at jerry.wickham@acgov.org.

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

Denis Brown J.T., Elizabeth G., W.T., and Jeanette Watters, Trust December 20, 2005 Page 3

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: Cynthia Vaskos
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608

Donna Drogos, ACEH Jerry Wickham, ACEH File

Garcia-La Grille, Roseanna, Env. Health

From: Vasko, Cynthia [cvasko@cambria-env.com]

Sent: Friday, April 15, 2005 1:07 PM

To: Garcia-La Grille, Roseanna, Env. Health

Cc: 'Brown, Denis L SOPUS-OP-COR-H'; 'Derby, Matt'

Subject: 285 Hegenberger, Oakland - Interim DPE 4/18 - 4/22/05

Dear Ms. Garcia-LaGrille,

I am sending this e-mail to notify you that Interim Dual-phase Extraction (DPE) from onsite well MW-10 will take place next week, beginning on 4/18/05, at the Shell station located at 285 Hegenberger Road, Oakland. DPE activities are scheduled to continue through 4/22/05, but may be extended for several more days to maximize the remedial effect. Feel free to contact me at 510-420-3344 if you have any questions or require additional information.

Regards,

Cynthia Vasko
Project Engineer
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A, Emeryville, CA 94608

phone: 510-420-3344 fax: 510-420-9170

ROZZO

May 22, 2003

Amir K. Gholami, REHS Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Alameda County

MAY 2 8 2003

Re: Certified List of Record Fee Title Holders for:

Shell-branded Service Station 285 Hegenberger Road Oakland, California Incident #98995749 Environmental Nociah



Dear Mr. Gholami:

This correspondence identifies the current landowner of the referenced property and is being made on behalf of Shell Oil Products US in compliance with section 25297.15(a) of Chapter 6.7 of the Health Safety Code. Landowner information for the referenced property was researched by using one or more of the following methods:

- 1. Directly contacting the county assessor's office.
- 2. Reviewing a private vendor database of assessor information, and/or
- 3. Reviewing Shell's or Cambria's files.

To the best of my knowledge, the following is a complete list of current fee title owners and their mailing addresses for the referenced property.

J.T., Elizabeth G., W.T., and Jeanette Watters, Tr., 600 Caldwell Road, Oakland, CA 94611

Sincerely,

cc:

Matthew W. Derby, P.E. Senior Project Manager

, ,

Karen Petryna, Shell Oil Products US, P.O. Box 7869, Burbank, CA 91510-7869 J.T., Elizabeth G., W.T., and Jeanette Watters, Tr., 600 Caldwell Road, Oakland, CA 94611

Cambria Environmental Technology, Inc.

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5900 Hollis Street Suite A Emeryville, CA 94608 Tel (510) 420-0700 Fax (510) 420-9170 **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 21, 2000 StID # 530

Ms. Karen Petryna Equiva Services LLC P.O. Box 7869 Burbank, CA 91510-7869

Re: Subsurface Investigation Report and Vapor Extraction Test Report for Shell Service Station, 285 Hegenberger Rd., Oakland CA 94621

Dear Ms. Petryna:

This letter serves to comment on the above reports and the proposal to install three vapor extraction/air sparge wells at the site. The reports respond to two agency concerns ie the potential of off-site utilities serving as preferential pathways to the nearby surface water channel and the potential of re-activating the existing vapor extraction system to treat the on-going petroleum hydrocarbon contamination.

The results of the utilities study indicate that there is a likelihood for the TPH plume to be intercepted by the adjacent storm drain. Three borings were advanced just beyond the property boundary between the boundary and the storm drain. The grab groundwater sample from boring SB-3, the easternmost boring, exhibited up to 16.5 mg/l TPH as gas, 5.1 mg/l TPH as diesel and lower levels of BTEX. MTBE, although reported at 180 ppb by EPA Method 8020, was not confirmed by EPA Method 8260. These results are consistent with the historical gradient, which indicates possible off-site migration in the southeast direction. Because the down-gradient wells, MW-11 through MW-13, are not impacted, a preferential pathway seems highly likely.

The results of the pilot soil vapor extraction test indicates that limited success would be expected if the system was re-started. This may be the result of a number of things, such as a rise in groundwater, leaving a shorter exposed well screen or decreased soil contamination due to natural attenuation. Therefore, your consultant proposes to install three vapor extraction/air sparge wells along the down-gradient edge of the site. The sparge wells will introduce oxygen, which should act as a bio-remediation barrier in addition to aerating volatile contaminants. This work plan is approved.

The report also discusses potential cleanup levels for groundwater using the Dilution Attenuation Factor (DAF) concept in the San Francisco Airport Water Board order. Note the referenced order 95-136 has been updated in order No. 99-045. Using estimated plume widths and distances from the source to the receptor (channel), your consultant determines that the benzene and MTBE concentrations should not be of concern. They

Ms. Karen Petryna StID # 530 285 Hegenberger Rd. June 21, 2000 Page 2.

also calculate that the TPHg may exceed the Tier 1 standard within this order. Although they state that the estimated concentration would be diluted prior to reaching the bay, this assumes that the channel does not require protection. This has not yet been shown, therefore, you cannot make this assumption.

Another item of concern is the groundwater gradient at the site. Although there is a south-east component, there may also be a southwest component. If this is the case, the open channel may be closer than estimated (reducing the DAF) and contamination on the western portion of the site would not be treated by the proposed vapor extraction/air sparge wells.

You may contact me at (510) 567-6765 if you have any comments or questions.

Sincerely,

Barney M. Chan

Hazardous Materials Specialist

Barney M Cha_

C: B. Chan, files

Mr. D. Ataide, Cambria Environmental Technology, 1144 65th St. Suite B, Oakland CA 94608

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ALAMEDA COUNTY

HEALTH CARE SERVICES

AGENCY



DAVID J. KEARS, Agency Director

April 5, 2000 StID # 530

Ms. Karen Petryna Equiva Services LLC P.O. Box 7869 Burbank, CA 91501-7869 ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION (LOP) 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700

FAX (510) 337-9335

Re: Request for Technical Reports for Shell Station, 285 Hegenberger Rd., Oakland CA 94621

Dear Ms. Petryna:

This letter requests the submission of technical reports for recent and past investigations performed at the above site. In addition, please update our office of the status of the proposed work plan for the installation of the proposed bio-sparge system.

As you are aware, after the shut-down of the vapor extraction system at this site, TPHg groundwater concentrations rebounded. When the analysis of MTBE was added to the suite of analytes, MTBE was discovered to be a potential problem. As part of your investigation of potential conduits for preferential pathways, Cambria performed an off-site investigation along the existing storm drain and sanitary sewer lines in March of 1999. To date, our office has not received this conduit study report.

In November of 1999, because of the elevated MTBE and TPHg levels still present in groundwater, Cambria performed a vapor extraction test to determine the feasibility of restarting the VES. To date, our office has not received the report on the results of this VET.

Upon noticing the relative low dissolved oxygen readings in groundwater and the large negative oxidation reduction potential, Cambria proposed in February 1999 to install a low flow air compressor system to add air into vapor extraction wells, VEW-1 through VEW-4. Since then, each successive monitoring report has stated that Cambria is preparing the drawings to obtain the building permits required for the installation of this system. Please explain the delay in obtaining the permits and installing this system into the existing wells. Please provide the requested reports and comment to the above item within 30 days or no later than May 5, 2000.

You may contact me at (510) 567-6765 if you have any questions.

Sincerely,

Barney M. Chan

Hazardous Materials Specialist

C: B. Chan, files

Mr. D. Ataide, Cambria Environmental, 1144 65th St., Suite B, Oakland CA 94608

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PROTECTION

00 APR -7 PM 2:59

March 31, 2000

Mr. Barney Chan Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, 2nd Floor Alameda, California 94502 Ru 220

Re:

Certified List of Record Fee Title Owners for:

Shell-branded Service Station 285 Hegenberger Rd. Oakland, CA

Incident No. 98995749

Dear Mr. Chan:

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.

J.T., Elizabeth G. W.T., and Jeanette Watters, Tr., c/o Property Tax Dept, PO Box 2099, Houston, TX 77252-1413

Sincerely,

Ailsa S. Le May, R.G.

Senior Geologist

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank California 91510-7869 J.T., Elizabeth G. W.T., and Jeanette Watters, Tr., c/o Property Tax Dept, PO Box 2099, Houston, TX 77252-1413

Oakland, CA San Ramon, CA

Sonoma, CA

Portland, OR

Cambria Environmental Technology, Inc.

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

ENVIRON LINTAL November 30, 1999

NO. 6717

99 DEC -- 7 AM 9: 59

Mr. Barney Chan Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, 2nd Floor Alameda, California 94502

Re: **Quarterly Status Report - Third Quarter 1999**

Shell-branded Service Station 285 Hegenberger Rd. Oakland, CA

Incident No. 98995749

Dear Mr. Chan:

On behalf of Equiva Services LLC, Cambria Environmental Technology, Inc. is submitting this letter in accordance with the reporting requirements of 23 CCR 2652d.

Current Quarter's Activities

Soil vapor testing was done during the fourth quarter 1999. Cambria will submit a report to your agency upon completion.

Proposed Activities

Cambria will submit vapor testing results and perform groundwater monitoring.

We appreciate the opportunity to work with you on this project. Please call us if you have any questions.

Sincerely,

Cambria Environmental Technology, Inc.

Ailsa S. Le May, R.G.

Senior Geologist

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

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869 Burbank California 91501-786 J.T., Elizabeth G., W.T., and Jeanette Watters, Tr., c/o Property Tax Dept, PO Box 2099, Houston, TX 77252-1413

To: Mr. Barney Chan

3

285 Hegenberger, Oakland

March15, 1999

Fax

Mr. Chan.

This transmittal serves to request relocation of proposed borings for the upcoming investigation at 265 Hegenberger Rd. in Oakland. Cambrid's Work Plan dated February 4, 1999 proposed two borings (SB-1 and SB-2). The work plan was subsequently approved in your letter dated February 11, 1999.

Date:

Re:

Cambria conducted a thorough site reconnaissance with a private utility locator to confirm the location and flow direction of utilities in the vicinity. Based on our observations in the field, we are proposing to move proposed borings SD-1 and SB-2 to the locations shown on Figure 1. In addition, we are proposing a third boring (SB-3) at the location shown on Figure 1.

I will follow this fax up with a phone call to confirm you agree with the revised boring locations.

Thank you,

Darryk Atoide

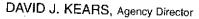
Combrig Environmental Technology, Inc. 1144 84% Street Suite B Cakland CA 94808 Tel (510) 420-0700 Fax (510) 420-0170

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ALAMEDA COUNTY HEALTH CARE SERVICES

AGENCY





February 11, 1999 StID # 530

Mr. Alex Perez Shell Oil Products Co. P.O. Box 8080 Martinez, CA 94553 ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION (LOP) 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

Re: Work Plan for 285 Hegenberger Rd., Oakland CA 94621

Dear Mr. Perez:

Thank you for the submission of the February 4, 1999 Letter Response and Work Plan for the above referenced site as prepared by Cambria Environmental Technology, Inc. (Cambria). I have reviewed this report and have spoke with Mr. Darryk Ataide of Cambria regarding its contents. Please note, this report responds to the County's December 3, 1998 letter which requested additional investigation. The work plan is conditionally approved.

To investigate preferential pathways one soil boring will be advanced within the storm drain and one within the sanitary sewer backfill. One soil from the vadose soil and one grab groundwater sample will be collected for chemical analysis. The following analytes will be tested: TPH as diesel, TPH as gasoline, BTEX and MTBE. MTBE will be confirmed using EPA Method 8260.

At this time, both human health and ecological risk assessments will be put on hold. Because the elevated benzene concentration in groundwater would necessitate a Tier 2 risk assessment, remediation will be done instead of additional sampling. Secondly, an ecological risk assessment will be done if the results of the soil borings indicate a potential risk to nearby surface water.

The status of vapor extraction and the existing system will be tested in a five-day vapor extraction test in the summer of 1999. The existing wells, VEW-1 through VEW-4, will be included in the test. Vapor samples will be collected during and at the completion of the test. Please analyze the vapor samples for the same analytes mentioned above. Please include an estimate for the amount of gasoline removed.

Instead of adding oxygen releasing compound, the four vapor extraction wells will be fitted with the equipment to biosparge these wells. Low flow rates of air will be bubbled into these wells. The progress of this treatment will be monitored in the vapor extraction and monitoring wells. Please make sure that the extraction wells are available for either extraction or sparging. If the concentration of dissolved oxygen in the monitoring wells does not increase appreciably after sparging, please consider adding oxygen releasing compound into these wells. This biosparging should be performed as soon as possible, since the vapor extraction test will not be done until summer.

Lastly, I would like to caution you that all the proposed actions will have little to no affect on the elevated MTBE concentrations in groundwater. Should MTBE migration be a concern, additional remediation methods must be considered.

Mr. Alex Perez StID # 530 285 Hegenberger Rd. February 11, 1999 Page 2.

ou may contact me at (510) 567-6765 if you have any questions.

incerely,

rney M. Chan

zardous Materials Specialist

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→ B. Chan, files

Mr. D. Ataide, Cambria, 1144 65th St., Suite B, Oakland CA 94608

Wpap285Heg

AGENCY

DAVID J. KEARS, Agency Director



December 3, 1998 StID # 530

Mr. Alex Perez Shell Oil Products Company P.O. Box 8080 Martinez, CA 94553 ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION (LOP) 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

Re: Shell Service Station, 285 Hegenberger Rd., Oakland CA 94621

Dear Mr. Perez:

Thank you for the submission of November 24, 1998 response letter from Cambria. This letter responded to comments made in my May 11, 1998 letter. I have reviewed the Cambria letter and have discussed my concerns with Mr. Darryk Ataide of Cambria. Essentially, our office at this time, does not concur with the recommendation that the addition of oxygen releasing compound (ORC) to the existing wells should be the remedial approach for the site.

The following items were discussed with Mr. Ataide and some suggestions for additional actions were made to respond to these items.

- The elevated levels of gasoline, BTEX and MTBE do not indicate that these contaminants have reached stabile concentrations which would be effectively remediated with ORC compound.
- The high levels of MTBE may indicate a new release. I was confounded that one well exhibited up to 14,000 ppb MTBE while reporting < 1,000 ppb gasoline. As you are aware, may problems exist with MTBE (resistance to bioremediation, greater mobility, uncertain toxicity and very low proposed cleanup level) whereby only sites with significantly lower concentrations may be considered for closure.
- A conservative risk assessment for potential human exposure to vapor from groundwater would fail a Tier 1 RBCA.
- The site has measurable low dissolved oxygen levels and reductive (negative) redox potential in groundwater not conducive to aerobic bio-degradation.
- The subsurface utilities have not been thoroughly investigated. A worse case scenario could
 envision the petroleum release migrating along the sanitary sewer and impacting the nearby
 channel.

To address the above concerns, we posed the following items for discussion:

- To clarify the preferential pathway issue, borings could be advanced along the utilities to collect groundwater samples.
- A Tier 2 RBCA could be performed after the collection of soil vapor samples. An ecological risk assessment may also be necessary.

Mr. Alex Perez StID # 530 285 Hegenberger Rd. December 3, 1998 Page 2.

- The status of the vapor extraction system would be investigated. A vapor extraction test
 could be performed to determine the effectiveness of restarting the system.
- If active remediation is necessary, one-time or infrequent extraction from monitoring wells would be considered.
- Instead of the addition of ORC, air sparging would also be considered to oxygenate groundwater.

A work plan inclusive of all or part of the above should be submitted to our office within 45 days or by January 19, 1999. The specific contents of the work plan should be discussed with our office and Cambria prior to submittal.

You may contact me at (510) 567-6765 if you have any questions.

Sincerely,

Barney M. Chan

Hazardous Materials Specialist

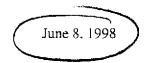
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C: B.Chan, files

Mr. D. Ataide, Cambria Environmental, 1144 65th St., Suite B, Oakland CA 94608

Wprq285Heg





Barney Chan Alameda County Department of Environmental Health 1131 Harbor Bay Parkway, 2nd Floor Alameda, CA 94502-6577

Re: Response to May 11, 1998 Information Request

Shell Service Station 285 Hegenberger Rd. Oakland, California WIC # 204-5508-5504 Cambria Project # 240-734

Dear Mr. Chan:

Cambria Environmental Technology (Cambria), on behalf of Shell Oil Products Company (Shell), is submitting this response to the May 11, 1998 letter from the Alameda County Department of Environmental Health (ACDEH) to Shell requesting additional information about the site referenced above. In that letter, you referred to earlier submittals by Pacific Environmental Group (PEG) and recent ground water monitoring reports. Presented below is a list of your concerns and our planned response actions:

Soil Vapor Extraction System: As you mentioned, the operation of the soil vapor extraction (SVE) was discontinued in February 1995 after a leveling off of the total pounds of hydrocarbon removed. We will reevaluate the effectiveness of the SVE system and site data and make recommendations regarding further system operation.

CAMBRIA

Environmental

TECHNOLOGY, INC.

1144 65TH STREET,

SUTTE B

OAKLAND,

CA 94608

PH: (510) 420-0700

Fax: (510) 420-9170

Enhanced Bioremediation Program: The letter indicated that in their Third Quarter 1995 Report, PEG recommended implementing an enhanced bioremediation program at the site but did not submit a proposal for the program. We will review the information from PEG and from other sources and evaluate the effectiveness of enhanced bioremediation at the site. During the second quarter 1998 ground water sampling event, we will sample selected site wells for dissolved oxygen, oxidation-reduction potential, nitrate, sulfate, and ferrous iron in order to determine existing parameter concentrations and to evaluate further actions.

Preferential Pathways: As requested, we will investigate whether preferential ground water pathways exist beneath the site by reviewing boring logs from previous investigations and by reviewing the locations of utility conduits at the site. (and show)

MTBE Analysis: As requested in your letter, we will use EPA Method 8260 to verify the highest concentration of MTBE detected by EPA Method 8020.

Sampling Frequency Changes: As approved, wells MW-4, MW-8, MW-11, MW-12, and MW-13 will be sampled annually during the fourth quarter.

CLOSING

We will prepare the information discussed above and submit it to the ACDEH by August 10, 1998. In response to your comments about quarterly monitoring reports, we are implementing procedures to provide more efficient coordination between the sampling company, the analytical laboratory and Cambria to expedite report production. We appreciate your continued assistance with this project. Please call if you have any questions or comments.

Sincerely,

Cambria Environmental Technology, Inc.

Diane Lundquist, P.E. Principal Engineer

cc: Mr. A.E. (Alex) Perez, Shell Oil Products Company, P.O. Box 8080, Martinez, CA 94553

G:\OAK285\ACDEHMay11Response.wpd

ALAMEDA COUNTY

HEALTH CARE SERVICES

AGENCY



DAVID J. KEARS, Agency Director

May 11,1998 StID # 530

Mr. Alex Perez Shell Oil Products Company P.O. Box 8080 Martinez, CA 94553 ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION (LOP) 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

Re: Site Remediation at Shell Service Station 285 Hegenberger Rd., Oakland CA 94621

Dear Mr. Perez:

Our office has reviewed the Fourth Quarter 1997 Monitoring Report for the above site as prepared by Cambria. We have also reviewed certain historical files. It appears that the soil vapor extraction system was discontinued on February 1995 based upon decreased TPH and benzene concentration in vapor and a leveling off of the total pounds of hydrocarbon removed. The system has not been restarted since this date. Although the groundwater total petroleum hydrocarbon (TPH) concentrations have decreased from that in 1995, it appears that there has been a return to elevated TPH concentration in specific wells at this site. This is to be expected since pulsing of remediation systems is often necessary to increase the efficiency of hydrocarbon removal.

If you compare the 1995 versus the 10/97 groundwater concentrations for TPHg and benzene in monitoring wells MW-1, MW-9 and MW-10, (the historically highest impacted wells), you will see only a partial decrease. Levels as high as 34,000 ppb TPHg and 7,500 ppb benzene still exist at the site. This is one reason why you should consider restarting the SVE system. Another is the still unclear threat of MTBE in groundwater. The initial SVE operation certainly reduced MTBE concentrations but given the potential conservative cleanup requirement for MTBE, remediation would make site closure easier.

In the Pacific Environmental Group (PEG) Third Quarter 1995 Report for this site, the rationale for shutting off the SVE system was given. Their recommendation was to implement an enhanced bioremediation program possibly consisting of:

- Low flow biosparging
- Low flow bioventing
- Use of oxygen releasing compound units and
- Addition of nutrient solution containing hydrogen peroxide, nitrogen, phosphorous and trace minerals.

Mr. A. Perez StID #530 285 Hegenberger Rd. May 11, 1998 Page 2.

A proposal for this program was to be submitted by November 15, 1995. To date, I am not aware that this proposal has ever been submitted. This proposal is reasonable only after the source has been removed and a stable or shrinking plume exists. At this point, it is not certain that asymptotic levels of TPH have been reached. As part of this proposal, you will need to test for bioremediation parameters in groundwater in order to establish a background level and to determine which ones to add.

The absence of TPH and MTBE in the downgradient wells MW-11,12 and 13 is puzzling. MTBE is known to be resistant to bioremediation and fairly mobile in groundwater. Unless there are specific reasons for it not to migrate, one must suspect that there may be preferential pathways which groundwater is taking, especially since groundwater is shallow. Please investigate whether existing utilities may be causing preferential migration of the TPH and MTBE contamination. You may implement the proposed monitoring change for wells MW-4,8,11,12 and 13 on the condition that you investigate the potential for preferential pathways.

In regards to the analytical results, please confirm the presence of MTBE using EPA Method 8260. Our office will be providing further guidance regarding the testing for oxygenates as soon as we receive Regional Board recommendations. Please be aware that TPHg and MTBE can and should be at times analyzed separately ie using separate standards. This will avoid the problem of dilution and high detection limits for TPPH. Please contact your analytical lab for details.

Please provide the groundwater monitoring reports in a more timely fashion. It is noted that the October 1997 sampling event was sent out on March 24, 1998 and only received on March 30, 1998.

Please provide a written response and work plan addressing the above items within 30 days or by June 10, 1998.

You may contact me at (510) 567-6765 if you have any questions.

Singerely,

Barney M. Chan

Hazardous Materials Specialist

C: B. Chan, files

Barner Ul Che

Mr. Khaled Rahman, Cambria Environmental, 1144 65th St., Suite B
Oakland CA 94608

adss1285



Cal/EPA



State Water Resources Control Board

DEC 3 1 1997

QUONO.

Division of Clean Water Programs

Mailing Address: P.O. Box 944212 Sacramento, CA 94244-2120

2014 T Street, Suite 130 Sacramento, CA 95814 (916) 227-4307 FAX (916) 227-4530

World Wide Web http://www.swrcb.ca. gov/~cwphome/ fundhome.htm P. Pugnale Shell Oil Company P O Box 25370 Santa Ana, CA 92799

UNDERGROUND STORAGE TANK CLEANUP FUND, CLAIM NO. 4963, FOR SITE ADDRESS: 285 HEGENBERGER RD, OAKLAND 94621

The State Water Resources Control Board (State Board) is able to issue, pursuant to applicable regulations, the enclosed Letter of Commitment (LOC) in an amount not to exceed \$450,000. This LOC is based upon our review of the corrective action costs you reported to have incurred to date. The LOC may be modified by the State Board.

It is very important that you read the terms and conditions listed in the enclosed LOC. Claims filed with the Underground Storage Tank Cleanup Fund far exceed the funding available and it is very important that you make use of the funding that has been committed to your cleanup in a timely manner.

Consequently, if you do not submit your first reimbursement request for corrective action costs which you have incurred within ninety (90) calendar days from the date of this letter, your funds will automatically be deobligated. Once deobligated, any future funds for this site will be obligated subject to availability of funds at such time when we receive your reimbursement request.

You are reminded that you must comply with all regulatory agency time schedules and requirements and you must obtain three bids for any required corrective action. Only corrective action costs required by the regulatory agency to protect human health, safety and the environment can be claimed for reimbursement. Unless waived in writing, you are required to obtain preapproval of costs for all future corrective action work (form enclosed). If you have any questions on obtaining preapproval of your costs or the three bid requirement, please call Steve Marquez, our Technical Reviewer assigned to claims in your Region, at (916) 227-0746. Failure to obtain preapproval of your future costs may result in the costs not being reimbursed.

The following documents needed to submit your reimbursement request are enclosed:

"Reimbursement Request Instructions" package. Retain this package for future reimbursement requests. These instructions must be followed when seeking reimbursement for corrective action costs incurred after January 1, 1988. Included in the instruction package are samples of completed reimbursement request forms and spreadsheets.



- "Bid Summary Sheet" to list information on bids received which must be completed and returned.
- "Reimbursement Request" forms which you must use to request reimbursement of costs incurred.
- "Spreadsheet" forms which you must use in conjunction with your reimbursement request.
- "Claimant Data Record" (Std. Form 204) which must be completed and returned with your first reimbursement request.

We continuously review the status of all active claims. If you do not submit a reimbursement request or fail to proceed with due diligence with the cleanup, we will take steps to withdraw your LOC.

If you have any questions regarding the enclosed documents, please contact Anna Torres at (916) 227-4388.

Sincerely,

Dave Deaner, Manager UST Cleanup Fund Program

Enclosures

cc: \(\sqrt{Mr} \). Thomas Peacock

Alameda County EHD

1131 Harbor Bay Pkway, 2nd Fl.

Alameda, CA 94502-6577



HELLER EHRMAN WHITE & MEAULIFFE

ATTORNEY SS JAN -9 PM 2: 22

Was 50

333 Bush Street San Francisco California 94104-2878

FACSIMILE: (415) 772-6268 TELEPHONE: (415) 772-6000

JOSEPH J. ARMAO (415) 772-6556

January 8, 1996

Anchorage Los Angeles Palo Alto Portland Seattle Tacoma

11775-0005

Anne G. Singley, Senior Attorney Shell Oil Company Legal - Products 4892 One Shell Plaza Houston, Texas 77002

Shell Service Station
Soil and Groundwater Contamination;
285 Hegenberger Road, Oakland, CA

Dear Ms. Singley:

On behalf of my client, I am writing with respect to the quarterly reports Shell has been providing us pursuant to our request in the above-referenced matter.

As you know, my client is the master lessor at 295 Hegenberger Road, the property adjacent to the subject Shell service station. As you also know, the owner of the property is the Port of Oakland. The Port of Oakland is one of the signatories to the Site Access and Indemnification Agreement executed with Shell in 1989 with respect to the above-referenced matter. We request, therefore, that the Port of Oakland also be provided copies of the quarterly reports from Shell as they are generated by Shell's consultant, currently the Pacific Environmental Group. For the sake of completeness, copies should be sent to all parties on the below-referenced list, which includes the individuals who constitute the master lessor interests. Please commence with the October 25, 1995 report from Pacific Environmental:

Ms. Terry O'Rourke Port of Oakland 530 Water Street Oakland, CA 94604

Mr. Ed Peterson Peterson Properties 1939 Harrison Street, Suite 605 Oakland, CA 94612 Ms. Eleanor Engs Hilken 3876 Fourteen Mile Drive Stockton, CA 95209

Ms. Phyllis Bell Carmichael 55 Sharon Avenue Piedmont, CA 94611

Mrs. Barbara B. Peterson 149 LaSalle Avenue Piedmont, CA 94610

Thank you for your attention in this matter and we look forward to your continued cooperation. Should you have any questions or comments, please feel free to contact me.

Very truly yours,

Soseph J. Aremao/cae

Joseph J. Armao Dictated But Not Read

CC: R. Jeff Granberry, Shell Oil Products Company
Terry O'Rourke, Port of Oakland
Barney Chan, Alameda County Health Care Services
Edward H. Peterson
Eleanor Engs Hilken
Phyllis Bell Carmichael
Barbara B. Peterson

HELLER EHRMAN WHITE & MCAULIFFE 16 JAH-9 PM 2:22

ATTORNEYS

A PARTNERSHIP OF PROFESSIONAL CORPORATIONS

ANCHORAGE LOS ANGELES PALO ALTO PORTLAND SEATTLE TACOMA

JOSEPH J. ARMAO

CALIFORNIA 94104-2878

FACSIMILE: (415) 772-6268

TELEPHONE: (415) 772-6000

(415) 772-6556

333 BUSH STRRET

SAN FRANCISCO

January 5, 1996

11775-0005

Mr. Barney Chan Alameda County Health Agency Dept. of Environmental Health 1131 Harbor Bay Parkway 2nd Floor Alameda, CA 94502

> Soil and Groundwater Contamination; Shell Service Station; 285 Hegenberger Road, Oakland,

Dear Mr. Chan:

This firm represents the master lessor at the property located at 295 Hegenberger Road, adjacent to the above-referenced Shell service station. It is my understanding that Mr. Edward Peterson, on behalf of the master lessor, has had discussions with you about the status of the site characterization and cleanup efforts undertaken by Shell regarding the abovereferenced contamination. As you know, the scope of Shell's contamination extends to and beneath the 295 Hegenberger Road property.

The purpose of this letter is to confirm that your agency is overseeing the progress of the site characterization and clean-up effort, and that your agency will not approve any site closure plan without first notifying the owner of the 295 Hegenberger Road property and considering any comments from the owner, or other interested parties, concerning any then-existing impacts to the property. We are also writing to confirm that the current owner of the property is the Port of Oakland which can be contacted through:

> Ms. Terry O'Rourke Port of Oakland 530 Water Street Oakland, CA 94604

Thank you for your attention in this matter. Should you have any questions or comments, please feel free to contact me.

Very truly yours,

Joseph J. Armao

cc: Terry O'Rourke, Port of Oakland Anne G. Singley, Esq.

Anne G. Singley, Esq.
R. Jeff Granberry
Edward H. Peterson
Eleanor Engs Hilken
Phyllis Bell Carmichael
Barbara Bell Peterson



February 9, 1995 Project 305-079,5D

Mr. Barney Chan Alameda County Environmental Heath 80 Swan Way. Rm. 200 Oakland. CA 94621

Re: Shell Service Station
285 Hegenberger Road at Leet
Oakland, California
WIC No 204-7620-1502

Dear Mr. Chan:

On behalf of Shell Oil Company, Pacific Environmental Group, Inc. (PACIFIC) has been operating a soil vapor extraction and treatment system at the site referenced above, since August 30, 1993. During the months of February and March of 1995 the system will be shut down due to high groundwater conditions and low influent concentrations. System operation may be resumed at the end of March of 1995 if groundwater elevations decrease.

PACIFIC will provide updates on system operation in subsequent quarterly monitoring reports. If you have any questions regarding the content of this letter please contact me at (408) 441-7500 ext. 289.

Sincerely,

Pacific Environmental Group, Inc.

Alexis M. Bahou Senior Staff Engineer

cc: Mr. Dan Kirk, Shell Oil Company

Ms. Anne Singley, Shell Oil Company

Mr. Joseph J. Armayo, Heller, Ehrman, White, and McAuliffe

CITY OF OAKLAND



LARRY JAMES (827)
INSPECTOR
FIRE PREVENTION BUREAU

PHONE (510) 238-3851 Fax (510) 238-6739

1330 BROADWAY, OAKLAND, CA 94612



JEFFREY M. RYAN

6747 Sierra Ct., Suite J Dublin, CA 94568 Direct (510) 551-7444 ext 220 Business (510) 551-7555 Fax (510) 551-7888

10/21/94 449 Heg Rd Unicel meeting at D. DeWitt + Bot Zereriai of Rapraelea.

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February 3, 1994 Project 305-079.01

Mr. Bradley Kino
Enforcement Division
Bay Area Air Quality Management District
939 Ellis Street
San Francisco, California 94109

Re: BAAQMD Permit to Operate 10111 Site Inspection Shell Service Station 285 Hegenberger Road at Leet Drive Oakland, California WIC No 204-7620-1502

Dear Mr. Kino:

On behalf of Shell Oil Company, Pacific Environmental Group, Inc. (PACIFIC) is operating a soil vapor extraction and treatment system (S-1 and A-2, respectively) at the site referenced above. This letter addresses issues discussed during the Bay Area Air Quality Management District (BAAQMD) site inspection performed on February 2, 1994.

In a telephone conversation with Mr. Robert Cave of the BAAQMD on February 2, 1994 after the site inspection, he indicated "...continuous measuring and temperature recording...", as stated in Paragraph 8 of Condition No. 9018 of the referenced permit is defined as data points no more than 15 minutes apart. PACIFIC has reprogrammed the data recorder to log temperature data every 15 minutes (enclosed Field Services/O&M Request dated February 2, 1994).

PACIFIC samples both the influent and effluent vapor stream every 2 weeks in accordance with Paragraphs 4a and 4b of Condition No. 9018 of the referenced permit (enclosed Field Services/O&M Request dated January 13, 1994 revised February 2, 1994).

As requested, enclosed please find Tables 1 through 5 describing vapor characteristics, system efficiencies, mass emissions, and mass removals for the referenced site.

If you have any questions or require additional information, please do not hesitate to call.

Sincerely,

Pacific Environmental Group, Inc.

Mark W. Boyd Mark W. Boyd Staff Engineer

Enclosures

cc: Mr. Dan Kirk, Shell Oil Company (without enclosures)

Mr. Robert Cave, Bay Area Air Quality Management District

(without enclosures)

Mr. Barney Chan, Álameda County Health Care Services Agency

(without enclosures)



PACIFIC SAN JOSE

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FACSIMILE TRANSMITTAL

DATE:	10-29-93	PROJ	.# 30:	5-79.01
то:	MR. BARNEY C	HAN FAX:	(510)	569-4757
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FROM:	MR MARK B	OYD		
IF YOU HAVE	ANY PROBLEMS REC			
	ANY PROBLEMS RECI	TO FOLLOW COVE		CALL (408) 441-7500
COMMENTS:	MR. CHAN		·	
-	BRIGINIAL	WILL FOLLOW	IN MAIL	
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October 29, 1993 Project 305-79.01

MEMORANDUM

To:

Mr. Barney Chan, Alameda County Department of Environmental Health

CC:

Mr. Dan Kirk, Shell Oil Company Mr. Richard Hiett, Regional Water Quality Control Board -

S.F. Bay Region

From: Subject: Mr. Mark W. Boyd, Staff Engineer Mut-Notification of Remedial System Re-Start

285 Hegenberger Road, Oakland

On behalf of Shell Oil Company, Pacific Environmental Group, Inc. (PACIFIC) is performing environmental services at the referenced site. PACIFIC hereby submits written notification that as of October 27, 1993, remedial activities have resumed and are currently ongoing. The temporary suspension of remedial activities at the site was due to a change of remedial equipment.

The previous soil vapor abatement unit, best suited for the higher concentrations initially experienced at the site, utilized an internal combustion engine to treat extracted soil vapor from beneath the site and operated on propane. That remedial system activity was initiated on August 30, 1993 and discontinued on September 14, 1993. The new soil vapor abatement unit utilizes catalytic oxidation to treat extracted soil vapor from beneath the site and runs on electricity.

The delay experienced in switching vapor abatement units was related to City of Oakland electrical inspection approvals. PACIFIC had submitted and received City approval on remedial system design plans. However, upon attempting to obtain electrical inspection approval, the on-site inspector required additional safety features that required additional design and construction at the site. The safety related issues have subsequently been resolved to the City's satisfaction. As a result, electrical service to the remediation compound has been activated and PACIFIC initiated remedial system operation on October 27, 1993.

If you have any questions or require additional information, please do not hesitate to call.



93 OCT 19 AM 11: 14

er 10/19/93

October 18, 1993 Project 305-79.01

MEMORANDUM

To:

Jim Williams, Office of Planning and Building

From:

Mark W. Boyd, Staff Engineer

Subject:

Electrical Permit Approval for 285 Hegenberger Road, Oakland.

On behalf of Shell Oil Company, Pacific Environmental Group, Inc. (PACIFIC) is performing environmental services at the referenced site. This letter serves as a written response to our telephone conversation on October 14, 1993.

1) Regarding the combasticities issue, PACIFIC has enclosed calculations and certified analysis a separate (CAR's) to support the position that operation of the King-Buck in Catalytic Oxidation (CAT-OX) unit does not result in a safety hazard Since no safety hazard exists, PACIFIC maintains that in and around the installation, normal wiring practices are acceptable. Class 1, Division 2 wiring is not required in this application.

The enclosed calculations and CAR's show that the influent concentrations expected at the referenced site should be well below the Lower Explosive Limit (LEL) of gasoline vapors (approximately 13,000 parts per million by volume (ppmv)). Influent concentrations are defined as the extracted vapors to be processed internally by the CAT-OX unit. For the electrical wiring to ignite vapors, the extracted vapors would have to exist external of the CAT-OX unit. Under normal operating conditions, extracted vapor external to the CAT-OX are not present. The extracted vapors are processed internally and the residual is exhausted via the exhaust stack.

If, for any reason, a leak occurred from the CAT-OX unit, an additional safety precaution is built-in by the manufacturer. An on-board sensor continuously monitors surrounding atmospheric LEL concentrations. The CAT-OX unit will completely shut down when surrounding atmospheric concentrations reach 25% of the LEL (approximately 3,200 ppmv).

2) Regarding the required control panel egress issue (36 inch clearance), PACIFIC has contracted to have a walk through door installed at the control panel

location in the wall of the steel container. Enclosed please review a sketch of the proposed door location.

Additionally, PACIFIC has contracted to have slotted vents installed in the walls of the steel container. Enclosed please review a sketch of the proposed vent locations and sizes.

PACIFIC hopes to have all upgrades in place by October 22, 1993. If there are any further changes required, please comment as soon as possible so implementation can proceed. PACIFIC will be scheduling another electrical inspection upon completion of the required upgrades to obtain final City of Oakland approval. PACIFIC and Shell are very anxious to restart the soil remediation system to continue remediation at the site.

If you have any questions or require additional information, please do not hesitate to call.

Thank You,

hark W. Boyd

Mark W. Boyd

Enclosures

cc: Mr. Dan Kirk, Shell Oil Company (without enclosures)
Mr. Barney Chan, Alameda County Health Care Services Agency
(without enclosures)



93 SEP 23 PM 2: 52

September 21, 1993 Project 305-79.01

Mr. Robert E. Cave Permit Services Division Bay Area Air Quality Management District 939 Ellis Street San Francisco, California 94109

Re: BAAQMD Authority to Construct 10111
Abatement Device Change Notification
Shell Service Station
285 Hegenberger Road at Leet Drive
Oakland, California
WIC No 204-7620-1502

Dear Mr. Cave:

On behalf of Shell Oil Company, Pacific Environmental Group, Inc. (PACIFIC) is operating a soil vapor extraction (SVE) and treatment system (S-1 and A-1, respectively) at the site referenced above. This letter presents notification that abatement device A-1, internal combustion engine, will be replaced by abatement device A-2, catalytic oxidizer. Abatement device A-2 will be operational on, or about, September 27, 1993.

Soil vapor treatment system influent concentrations have dropped below 3,000 parts per million by volume. As a result, PACIFIC will exercise option A-2 as allowed under paragraph 6, Conditions No. 9018, of the referenced Authority to Construct. A one-time source destruction efficiency and emissions test will be performed within the first 10 days of SVE system operation. Test results shall be provided to the Bay Area Air Quality Management District within 30 days after testing has occurred per paragraph 11, of Conditions No. 9018.

If you have any questions or require addition information, please do not hesitate to call me.

Sincerely,

Pacific Environmental Group, Inc.

Mark W. Boyd

Staff Engineer

Mr. Dan Kirk, Shell Oil Company Mr. Barney Chan, Alameda County Health Care Services Agency

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ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

Hazardous Materials Inspection Form

80 Swan Way, #200 Oakland, CA 94621 (415) 271-4320

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June 3, 1993 Project 305-79.01

Mr. Barney Chan Alameda County Health Care Services Agency 80 Swan Way, Room 200 Oakland CA 94621

Re: Site Status Update
Shell Service Station
285 Hegenberger Road at Leet Drive
Oakland, California
WIC No 204-5508-5504

Dear Mr. Chan:

This letter was prepared by Pacific Environmental Group, Inc. (PACIFIC) for Shell Oil Company (Shell) regarding the site referenced above. The letter was prepared in response to a letter from the Alameda County Health Care Services Agency (ACHCSA) dated May 10, 1993.

Responses to the two comments are provided below, and the ACHCSA comments are paraphrased for clarity.

"Please provide an update on Shell's Plan to install monitoring wells in the median and on the other side of Hegenberger Rd."

Shell is currently reviewing the City of Oakland encroachment agreement and anticipates completing and approving the agreement during the week of May 24, 1993. Following approval, the agreement will be forwarded to the City of Oakland. PACIFIC will then need to forward a copy of the agreement to the drilling company contracted to install the monitoring wells, as the City of Oakland requires that they obtain the street opening permit. Following receipt of the street opening permit, PACIFIC will schedule the well installation.

"The quarterly report states that there have been delays encountered during remedial system design..."

The remedial system design and review process encountered delays due to required design modifications prior to submission to the City of Oakland. Subsequently, PACIFIC learned that approval for the permits was also required from the Port of Oakland. This, and a request from the City of Oakland for calculations regarding seismic bracing resulted in delays. The revised plans were resubmitted on April 5, 1993. As stated in the quarterly monitoring report of April 30, 1993 building permits were obtained on April 29, 1993. PACIFIC is currently preparing the documents required to send the remedial system construction out for bids. Following issuance of the bid requests, the contractors will be required to respond with bids within three weeks. Shell will select a contractor within one week of receipt of the bids.

After a contractor has been selected, PACIFIC will schedule a construction start date, which is contingent on the contractor schedules and availability. Remedial system construction is anticipated to take four to six weeks, followed by approximately one week for system troubleshooting and startup.

Shell has ordered the soil vapor abatement unit for use at the site. This unit is currently under construction and will be shipped to Shell upon completion.

If you have any questions regarding the contents of this letter, please call.

Sincerely,

Pacific Environmental Group, Inc.

Michael Hurd

Senior Geologist

RG 5319

cc: Mr. Dan Kirk, Shell Oil Company

Mr. Rich Hiett, Regional Water Quality Control Board



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

May 10, 1993 StID # 530

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

Re: Status of Remediation/Investigation at 285 Hegenberger Rd., Oakland CA 94621

Dear Mr. Kirk:

Our office has received and reviewed the April 30, 1993 first quarter 1993 monitoring report for the above site. It was noticed that levels of petroleum hydrocarbon contamination remain elevated in wells, MW-7, MW-9 and MW-10. Gradient remains southerly towards Hegenberger Rd. Our office has the following concerns:

- 1. Please provide an update on Shell's plan to install monitoring wells in the medium and on the other side of Hegenberger Rd. Given the high petroleum hydrocarbon concentrations in MW-7, MW-9 and MW-10 it is important to determine to what extent the plume is migrating offsite.
- 2. The quarterly report states that there have been delays encountered during remedial system design and that the time schedule stated in the January 14, 1993 letter will not be met. Please specify the nature of your delays and provide a revised time schedule.

You may either contact me at (510) 271-4530 or respond in writing to the two items.

Sincerely,

Barney M. Chan

Hazardous Materials Specialist

cc: G. Jensen, Alameda County District Attorney Office

R. Hiett, Meth

inexus ella

M. Hurd, Pacific Environmental Group, 2025 Gateway Place, Suite 440, San Jose, CA 95110

E. Howell, files

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ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY

DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

May 10, 1993 StID # 530

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

Re: Status of Remediation/Investigation at 285 Hegenberger Rd., Oakland CA 94621

Dear Mr. Kirk:

Our office has received and reviewed the April 30, 1993 first quarter 1993 monitoring report for the above site. It was noticed that levels of petroleum hydrocarbon contamination remain elevated in wells, MW-7, MW-9 and MW-10. Gradient remains southerly towards Hegenberger Rd. Our office has the following concerns:

- 1. Please provide an update on Shell's plan to install monitoring wells in the medium and on the other side of Hegenberger Rd. Given the high petroleum hydrocarbon concentrations in MW-7, MW-9 and MW-10 it is important to determine to what extent the plume is migrating offsite.
- 2. The quarterly report states that there have been delays encountered during remedial system design and that the time schedule stated in the January 14, 1993 letter will not be met. Please specify the nature of your delays and provide a revised time schedule.

You may either contact me at (510) 271-4530 or respond in writing to the two items.

Sincerely,

Barney M. Chan

Hazardous Materials Specialist

cc: G. Jensen, Alameda County District Attorney Office

R. Hiett, RWQCB

inexus The

M. Hurd, Pacific Environmental Group, 2025 Gateway Place, Suite 440, San Jose, CA 95110

E. Howell, files

2-285Heg



92 DEC 21 PM 3: 23

Date	<u>December 18, 1992</u> 305-79.01		
r roject	<u> 505-75.01</u>		•
	·		
To: Mr. F	Robert Cave		
	Area Air Quality Management Dis	etrict	
	Ellis Street		
	Francisco, California 94109		
<u> </u>	Tarristo Carry III Control of the Co		
			•
We have	enclosed:		
Copies	Description		
1	Check #7911 for \$395.00 to cove	er fees related to Applicatio	n #10111
1	Extended Site Map		II # IUIII
1	Remittance Conv		
	Remittance Copy		
			<u> </u>
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		-	
For your:			
	Approval Review		
	Information		
O			
Comment	ts:	·	· · · · · · · · · · · · · · · · · · ·
		Thank You,	
•		Mark Bo	yd MWR
cc: Mi	r. Dan Kirk, Shell Oil Company		
cc: Mr	r. Barney Chan, Alameda County l	Health Care Services	

REMITTANCE COPY

Application #10111 December 4, 1992

FEES

 Filing Fee
 \$ 165.00

 Initial Fee
 230.00

 Total Due
 \$ 395.00

NOTES

- (1) A copy of BAAQMD Regulations is on display at the District Offices on the 7th Floor of 939 Ellis Street, San Francisco. A copy of Regulation 3 (Fees) may be obtained by sending \$1.00 to BAAQMD, Public Information & Education Office at the above address.
- (2) BAAQMD Regulation 3-310 states:

"An applicant for an Authority to Construct or a Permit to Operate a source which has been constructed without an authority to construct shall pay the filing fee plus a penalty fee of two times the initial fee. A person who has received an authority to construct and received a violation notice for operating the source without paying the permit to operate fee, shall pay a late fee of two times the permit to operate fee."



2025 GATEWAY PLACE, SUITE 440 TAL SAN JOSE, CA 95110 (408) 441-7500

BANK OF AMERICA
PALO ALTO COMMERCIAL BANKING
PALO ALTO, CA 94301

.7911

11-35-1210

PAY

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TO THE ORDER BAAQMD

THE SUM OF 3 95 448 00 CTS

12/10/92

\$395.00

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PACIFIC ENVIRONMENTAL GROUP, INC.

DETACH AND RETAIN THIS STATEMENT DESCRIBED BELOW.

THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.

THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED.

THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED.

THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED.

NO

7911

BANK CODE 103

INC. DELUXE - FORM TWCP-3 V-N5830

IC ENVIRONMENTAL GROUP, INC.		TASK	ACCOUNT	AMOUNT
DESCRIPTION	PROJECT	IAUK		
Filing & Initial Fee	305-79.01	G	517	\$395.00
	·			
		I I		

SCHARGE WARENCE BANK OF AMERICA PARKING TRUCKING NEARSET RESIDENTIAL RECE RESIDENTIAL APARTMENT
COMPLEX (ALL
STRUCTURES BELOW 30'
BOVE GROUND SURF' RED RESTAURANT EMPTY BUILDING COUPMENT 200 294 2407 WAREHOUSE FIGU **PACIFIC** 1 **ENVIRONMENTAL** GROUP, INC. PROJECT: 305-79.01

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

September 30, 1992 STID #530

Shell Oil Company Attn: Mr. Daniel Kirk

P.O. Box 4023 Concord, CA 94524

Subject: Request for Timetable for Implementation of an Interim

Remedial System at 285 Hegenberger Rd., Oakland CA 94621

Shell Station # 1085

Dear Mr. Kirk:

I have just completed the review of the second quarter's 1992 monitoring report for the above site as well as the report detailing the sampling activities subsequent to the removal of the hydraulic lifts. These results reconfirm the extensive soil and groundwater contamination on this site. I understand that you are proceeding by investigating the monitoring well on 295 Hegenberger Rd., the former Pac Bell site, as a potential offsite contributor to the "diesel" or motor oil contamination found on this site. Other current efforts include obtaining encroachment permits for performing a hydropunch survey on Hegenberger Rd. Logic being that this will help determine the extent of groundwater contamination and help pinpoint the most likely locations for offsite wells. All these items certainly may help to define the extent of contamination and possibly an additional source, but does little to remove Shell's existing hydrocarbon contamination in the soil and groundwater onsite. Passive natural biodegradation has not significantly decreased contaminant levels over time.

After our meeting on June 2, 1992, we agreed upon several items, among which were:

1. Obtaining information from adjoining property.

2. Seeking permits for the installation of well(s) in the medium of Hegenberger Rd.

3. Incorporating TPH as motor oil or oil and grease analysis in all wells on site.

4. Summarizing gradient information to help predict the groundwater contaminant pathways.

5. Providing a work plan for the installation of an interim remediation system to address onsite contamination.

It appears that all the above items have been addressed to some extent except the last. Although there are valid arguments which say that until the extent of contamination is known a system cannot be designed to treat the entire problem, this is a valid

Mr. Dan Kirk STID #530 285 Hegenberger Rd. September 30, 1992 Page 2.

argument only when there has been an acceptable schedule for both the investigation and the implementation of a remedial system. One could equally argue that the "waters of the state" have not been adequately protected, as is your responsibility, in this interim while one is studying the site. The history of this site indicates high gasoline and benzene levels in monitoring wells as early as 1989. Remediation since then has consisted of merely excavating obvious areas of contamination. Previous plans for extensive excavation of the site as was presented in a Converse workplan were abandoned for other alternatives. Our office would like to emphasize the need for immediate interim actions to as you have often stated "knock down" the elevated groundwater contaminant levels. We believe that the installation of an interim groundwater treatment system is an efficient way to remove large amounts of petroleum contaminants and will reduce the time and effort necessary to cleanup the contaminants absorbed in the capillary fringe.

You are reminded that section 13304 of the Water Code requires the responsible party to abate the effects of threatened pollution or nuisance from the discharge of any waste into the waters of the state. Failure to perform such abatement may subject you to civil liabilities. In addition, Section 25298 (c) 4 of the California Health and Safety Code (H&SC) state that no person shall close an underground tank unless that person has taken steps to demonstrate to the appropriate agency that the site has been investigated to determine if there are any present or were past releases and if so that appropriate corrective or remedial actions were taken. Civil penalties of not less than \$500 or more than \$5000 for each underground tank, for each day which the owner or operator fails to properly close an underground tank exist.

Therefore, our office requests the submission of a workplan and a time-table which immediately addresses the on-site subsurface contamination. The time schedule should minimally set deadlines for the following:

- 1. A comparison of the currently available remedial alternatives.
- 2. The performance of groundwater extraction tests on specific wells. Provide diagrams of areas of expected influence.
- 3. The receipt of approvals of encroachment permits for the installation of offsite wells.

Mr. Dan Kirk STID #530 285 Hegenberger Rd. Septmeber 30, 1992 Page 3.

- 4. Provision of a preliminary engineering design for the proposed treatment system.
- 5. Obtaining City of Oakland planning department, POTW or NPDES and BAAQMD permits.
- 6. Provision of a description of the system's operation and maintenance schedule.
- 7. Provision of the date for the installation of the system.

 Description of verification of effectiveness and provision of a contingency plan.
- 8. Projection of a time for the eventual verification monitoring and system shut-down.

Please provide this workplan and the above elements to our office within 45 days of receipt of this letter. You should consider this a formal request for technical reports pursuant to the California Water Code Section 13267 (b).

You may contact me at (510) 271-4350 should you have any questions.

Sincerely,

Barney M. Chan

Hazardous Materials Specialist

cc: M. Thomson, Alameda County District Attorney Office

R. Hiett, RWQCB

barner un alia-

M. Hurd, Pacific Environmental Group, Inc, 620 Contra Costa Boulevard, Suite 209, Pleasant Hill, CA 94523

E. Howell, files

ÍWP-285Heg

Complete items 1 and/or 2 fer satisfiered convices. Complete items 3, and 4s & b. Print your name and address on the reverse of this form seturn this card to you. Attach this form to the front of the mailpiece, or on the becose not permit. Write "Return Receipt Requested" on the mailpiece below the The Return Receipt will show to whom the article was delivered. 3. Article Addressed to: (BC) #521 Unocal Corporation Attn: Tim Howard P.O. Box 5155 San Ramon, CA 94583	ack if space 1. Addressee's Addressee anticle number. 2. Restricted Delivery
5. Signature (Addressee)	8. Addressee's Address (Only if requested and fee is paid)

	UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT					
EM	ERGENCY HAS STATE OFFICE OF EMERGENCY SERVICES REPORT REFORE BUILD 2	FOR LOCAL AGENCY USE ONLY				
	YES X NO	HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS DURSUANT TO SECTION 25140.7 OF				
	CASE*	THE HEALTH AND SAFTY CODE James Van 6/16/72				
بــــا	M 6 M 1 D 2 D 9 2 V PHONE	SIGNED / DATE				
		0) 675-6114 SIGNATURE OLDAY 6/DAY				
Ä	KAREN D. CLARK (510 REPRESENTING X OWNER/OPERATOR REGIONAL BOARD	COMPANY OR AGENCY NAME				
REPORTED	LOCAL AGENCY OTHER	SHELL OIL COMPANY				
Ü	ADDRESS					
_	1390 WILLOW PASS RD	CONCORD CA 94520				
4		CONTACT PERSON PHONE				
RESPONSIBLE PARTY	SHELL OIL COMPANY UNKNOWN	STAN ROLLER (510) 675-6145				
88 4 8	ADDRESS 1390 WILLOW PASS ROAD, SUITE 900	concord CA 94520				
řič .	STREET: 8	CITY STATE ZIP				
_	FACILITY NAME (IF APPLICABLE) BAY AIRPORT SHELL	OPERATOR PHONE				
δ.	ADDRESS	BILLY HAYES (415) 568-5191				
LOCATION	285 HEGENBERGER ROAD	OAKLAND ALAMEDA 94621				
SITE	CROSS STREET TYPE OF AREA XX COMM	COUNTY 5 ZIP				
	T T T T T T T T T T T T T T T T T T T	MERCIAL INDUSTRIAL RURAL TYPE OF BUSINESS TRETAIL FUEL STATION OTHER OTHER				
9	LOCAL AGENCY AGENCY NAME	CONTACT PERSON PHONE				
IMPLEMENTING AGENCIES	COUNTY OF ALAMEDA	BRITT JOHNSON (510) 271-4320				
A GE	REGIONAL BOARD S.F. REG. W.Q.C.B	PHONE				
₹ _		JOHN KAISER 510) 464-0803				
8	(1) NAME	QUANTITY LOST (GALLONS)				
SEC.	GASOLINE AND HYDRO OIL	VINKNOWN				
SUBSTANCES INVOLVED	(2)					
┝─┤	DATE DISCOVERED HOW DISCOVERED INTERPRET	UNKNOWN				
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W H	DATE DISCHARGÉ BEGAN	METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)				
	M M D D V V XX UNKNOWN	REMOVE CONTENTS REPLACE TANK CLOSE TANK				
DISCOVER	HAS DISCHARGE BEEN STOPPED ?	REPAIR TANK REPAIR PIPING CHANGE PROCEDURE				
SS	X YES NO IF YES, DATE M M D D V V	OTHER				
ESE.	SOURCE OF DISCHARGE TANKS ONLY/CAPACITY	MATERIAL CAUSE(S)				
3	TANK LEAK X UNKNOWN 10,000 GAL.	X FIBERGLASS OVERFILL RUPTURE/FAILURE				
SOURCE/CAUSE	PIPING LEAK AGE 8 YRS	STEEL CORROSION X UNKNOWN				
-	OTHER UNKNOWN	OTHER SPILL OTHER				
CASE	CHECK ONE ONLY SOIL ONLY GROUNDWATER F					
	X UNDETERMINED SOIL ONLY GROUNDWATER CHECK ONE ONLY	DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)				
CURRENT	SITE INVESTIGATION IN PROGRESS (DEFINING EXTENT OF PROBLEM)	CLEANUP IN PROGRESS SIGNED OFF (CLEANUP COMPLETED OR UNNECESSARY)				
STA	NO ACTION TAKEN POST CLEARUP MONITORING IN PROGRESS					
	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)	TO COURS AND DESCRIPTION OF THE PROPERTY OF TH				
¥ S	CAP SITE (CD) EXCAVATE & DISPOSE (ED)	REMOVE FREE PRODUCT (FP) ENHANCED BIO DEGRADATION (IT)				
REMEDIAL	CONTAINMENT BARRIER (CB) EXCAVATE & TREAT (ET)	PUMP & TREAT GROUNDWATER (GT) REPLACE SUPPLY (RS)				
, re	TREATMENT AT HOOKUP (HU) NO ACTION REQUIRED (NA)	▼ OTHER (OT)				
	DURING THE REMOVAL OF WASTE OIL, HOIST	OIL WATER SEPARATOR CONTAMINATION WAS				
ENTS	DISCOVERED. SHELL'S MR D. T. KIRK IS W	WORKING CLOSELY WITH ALAMEDA COUNTY				
COMMENTS	ENVIRONMENTAL HEALTH FOR CORRECTIVE ACT	TION TO BE PERFORMED AT THIS LOCATION.				
ğ						

HSC 05 (4/87)

INSTRUCTIONS

Indicate whether emergency response personnel and equipment were involved at any time. If so, a Hazardous Material Incident Report should be filed with the State Office of Emergency Services (OES) at 2800 Meadowview Road, Sacramento, CA 95832. Copies of the OES report form may be obtained at your local underground storage tank permitting agency. Indicate whether the OES report has been filed as of the date of this report.

LOCAL AGENCY ONLY

To avoid duplicate notification pursuant to Health and Safety Code Section 25180.7, a designated government employee should sign and date the form in this block. A signature here does not mean that the leak has been determined to pose a significant threat to human health or safety, only that notification procedures have been followed if required.

Enter your name, telephone number, and address. Indicate which party you represent and provide company or agency name.

Enter name, telephone number, contact person, and address of the party responsible for the leak. The responsible party would normally be the tank owner.

SITE LOCATION

Enter information regarding the tank facility and surrounding area. At a minimum, you must provide the facility name and full address.

IMPLEMENTING AGENCIES

Enter names of the local agency and Regional Water Quality Control Board involved.

SUBSTANCES INVOLVED

Enter the name and quantity lost of the hazardous substance involved. Room is provided for information on two substances if appropriate. If more than two substances leaked, list the two of most concern for cleanup.

-DISCOVERY/ABATEMENT

Provide information regarding the discovery and abatement of the leak.

Indicate source(s) of leak. Provide details on tank age; capacity and material if known. Check box(es) indicating cause of leak.

Indicate the case type category for this leak. Check one box only a Case type is based on the most sensitive resource affected. For example, if both soil and ground water have been affected, case type will be "Ground Water". Indicate "Drinking Water" only if one or more municipal or domestic water wells have actually been affected. A "Ground Water" designation does not imply that the affected water cannot be, or is not, used for drinking water, but only that water wells have not yet been affected. It is understood that case type may change upon further investigation.

CURRENT STATUS

Indicate the category which best describes the current status of the case. . Check one box only. The response should be relative to the case type. For example, if case type is "Ground Water", then "Current Status" should refer to the status of the ground water investigation or cleanup, as opposed to that of

IMPORTANT: THE INFORMATION PROVIDED ON THIS FORM IS INTENDED FOR GENERAL STATISTICAL PURPOSES ONLY AND IS NOT TO BE CONSTRUED AS REPRESENTING THE OFFICIAL POSITION OF ANY GOVERNMENTAL AGENCY

Indicate which actions have been used to cleanup or remediate the leak. Descriptions of options follow:

Cap Site - install horizontal impermeable layer to reduce rainfall infiltration.

Containment Barrier - install vertical dike to block horizontal movement of contaminant.

Excavate and Dispose - remove contaminated soil and dispose in approved

Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming).

Remove Free Product - remove floating product from water

Pump and Treat Groundwater - generally employed to remove dissolved contaminants.

Enhanced Biodegradation - use of any available technology to promote bacterial decomposition of contaminants.

Replace Supply - provide alternative water supply to affected parties.

Treatment at Hookup - install water treatment devices at each dwelling or other place of use

No Action Required - incident is minor, requiring no remedial action.

COMMENTS - Use this space to elaborate on any aspects of the incident. SIGNATURE - Sign the form in the space provided.

If the form is completed by the tank owner or his agent, retain the last copy and forward the remaining copies in tact to your local tank permitting agency for distribution.

Original - Local Tank Permitting Agency

State Water Resources Control Board, Division of Water Quality, Underground Tank Program, P. O. Box 100, Sacramento, CA 95801

Regional Water Quality Control Board

County Board of Supervisors or designee to receive Proposition 65 notifications.

Owner/responsible party.



52 (mg) (m) 12 24

FAX: (408) 243-3911

FAX: (510) 825-0882

June 9, 1992 Project 305-79.01

Mr. Barney Chan Alameda County Department of Environmental Health 80 Swan Way, Room 200 Oakland, California 94621

Re: Shell Service Station
285 Hegenberger Road at Leet Drive
Oakland, California
WIC No 204-5508-5504

Dear Mr. Chan:

This letter presents a written request to review files from the Alameda County Health Department (Alameda County) concerning the site located at 295 Hegenberger Road in Oakland by Pacific Environmental Group, Inc. (PACIFIC). It is our understanding that the property is currently owned and operated by Rolling Trucking (Rolling). Prior to Rolling's involvement, the property was owned by Pacific Bell. This site is located adjacent to the above referenced Shell service station, which PACIFIC is currently studying.

It is our understanding that Alameda County requires \$71 per hour to review files and that copies of documents may be made for \$1 per page; however, personal copiers may be brought into the file review room and used at no charge. I would like to review the files this week (June 8 to 12, 1992). Please notify me at your earliest convenience as to when I may review the files.

Please call if you have any questions.

Sincerely,

Pacific Environmental Group, Inc.

Jobel O'Bour

Gerald O'Regan Senior Staff Geologist



FACSIMILE TRANSMITTAL

DATE:	June 9, 192
TO:	Mr. Barney Chan Alameda County Depylor Environmental
	Nea 144
FAX:	510/569-4757
FROM;	Gerald O'legan
PROJ.#	305-79.01
IF YOU H PLEASE (IAVE ANY PROBLEMS RECEIVING THIS FACSIMILE, CALL (408) 984-6536
	SHEETS TO FOLLOW COVER PAGE



June 9, 1992 Project 305-79.01

Mr. Barney Chan Alameda County Department of Environmental Health 80 Swan Way, Room 200 Oakland, California 94621

Re: Shell Service Station 285 Hegenberger Road at Leet Drive Oakland, California WIC No 204-5508-5504

Dear Mr. Chan:

This letter presents a written request to review files from the Alameda County Health Department (Alameda County) concerning the site located at 295 Hegenberger Road in Oakland by Pacific Environmental Group, Inc. (PACIFIC). It is our understanding that the property is currently owned and operated by Rolling Trucking (Rolling). Prior to Rolling's involvement, the property was owned by Pacific Bell. This site is located adjacent to the above referenced Shell service station, which PACIFIC is currently studying.

#530

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Please call if you have any questions.

Sincerely,

Pacific Environmental Group, Inc.

Gerald O'Regan

Senior Staff Geologist



-env.health white yellow -facility pink -files

ALAMEDA COUNTY, DEPARTMENT OF **ENVIRONMENTAL HEALTH**

80 Swan Way, #200 Oakland, CA 94621 (415) 271-4320

Hazardous Materials Inspection Form

	***************************************	1.1.54	11,111
***		***************************************	Site Site Name Shell Station Today 12092
	BUSINESS PLANS (Title 19) 1. immediate Reporting 2. Bus. Plan Stds. 3. RR Cars > 30 days 4. inventory information 5. inventory Complete 6. Emergency Response 7. Training 8. Deficiency 9. Modification ACUTELY HAZ. MATLS 10. Registration Form Filed 11. Form Complete 12. RMPP Contents 13. implement Sch. Regid? (Y/N) 14. OffSite Conseq. Assess. 15. Probable Risk Assessment 16. Persons Responsible 17. Certification 18. Exemption Request? (Y/N) 19. Trade Secret Requested?	2703 25503(b) 25503.7 25504(c) 2730 25504(c) 25505(d) 25505(d) 25505(d) 25505(d) 25505(d) 25503(d) 25533(d) 25534(d) 25534(d) 25534(d) 25534(d) 25534(d) 25534(d) 25534(d) 25534(d) 25534(d) 25534(d) 25534(d) 25534(d)	Site Address 285 Magnificant Rd City Califand Zip 94 67 Phone MAX AMT stored > 500 lbs, 55 gal., 200 cft.? Inspection Categories: I. Haz. Mat/Waste GENERATOR/TRANSPORTER II. Business Plans, Acute Hazardous Materials III. Underground Tanks * Calif. Administration Code (CAC) or the Health & Safety Code (HS&C) Comments:
m.	UNDERGROUND TANKS (TIME	23)	Sampline under kormer dispenser 1/bg
General	1. Permit Application 2. Pipeline Leak Detection 3. Records Maintenancs 4. Release Report 5. Closure Plans	25284 (H&S) 25292 (H&S) 2712 2651 2670	Closest to bldg.) Sample is oncen + odorous GW is at \$50 bas, as seen in hole du
Monitoring for Existing Tanks	6. Method 1) Monthly Test 2) Daily Vodose Semi-cannual gnowater Che Itme sols 3) Daily Vodose One Itme sols 3) Daily Vodose Che Itme sols Annual tank test 4) Monthly Gnowater Che Itme sols 5) Daily Inventory Annual tank testing Cont ploe leak delt Vadose/gnowater mon. 6) Daily Inventory Annual tank testing Cont ploe leak delt 7) Weeldy Tank Gouge Annual tank Isting 8) Annual Tank Testing Daily Inventory 9) Other 7. Precis Tank Test Date: 8. Inventory Rec. 9. Soil Testing 10. Ground Water.	2643 2644 2646 2647	between I and 4' West of existing cantry to support. (This hole was due for him canopy support.) Gerald Oregon from Pacific Env. Group & took Samples. Delta bay (contractor) reads barney to contact V. Padilia at At S Engineering DE changes in piping. One water pample taken from any encountered (under complings.
New Tanks	11.Monitor Plan 12.Access. Secure 13.Plans Submit Date: 14. As Built Date:	2632 2634 2711 2635	
Rev	6/88		
	Contact: <u>{</u> Title: <u>\$</u> Signature:	Copaid Eniot Luc	OROGOU CORSINE GOVYIT Inspector: Jennier Eberle Corsiner Signature: 4916-10

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SMO #530

2007.

FAX: (408) 243-3911 FAX: (510) 825-0882

May 20, 1992

Mr. Barney Chan Almaden County, Health Care Services Agency 80 Swan Way, Room 200 Oakland, CA 94621

Re: Shell Service Station
285 Hegenberger Road at Leet Drive
Oakland, California
WIC No 204-5508-5504

Dear Mr. Chan:

At the request of Shell Oil Company (Shell), Pacific Environmental Group, Inc. (PACIFIC) is forwarding this request for an extension to the due-date set forth for a work plan in a letter from the Alameda County Health Care Services Agency (Alameda County) dated March 31, 1992 for the above referenced site. In this letter, Alameda County commented on and requested additional information regarding the site.

At this time PACIFIC is evaluating the analytical results of soil and water samples collected from the recently enlarged excavations around the former hydraulic lifts and waste oil tank. In addition, to further assess the analytical properties of the groundwater PACIFIC will include a general mineral analyses of water samples collected from three of the on-site monitoring wells. The results of these tests will be included in the next quarterly report and used to prepare the work plan.

Shell would also like to delay submittal of the work plan until after a meeting between Shell, the Alameda County Health Care Services Agency, and PACIFIC.

If you have any questions regarding the contents of this letter, please call.

Sincerely,

Pacific Environmental Group, Inc.

Michael Hurd

Project Geologist

cc: Mr. Richard Hiett, Regional Water Quality Control Board

Mr. Dan Kirk, Shell Oil Company

TABLE 3 (cont'd). CHRONOLOGICAL SUMMARY

Date	Description of Activity
07/24/90 and 07/25/90	Converse sampled wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9 and MW-10.
08/06/90 and 08/07/90	Converse drilled and sampled SG-1 through SG-13.
09/07/90	Converse performed constant head test on monitoring wells MW-1, MW-5, MW-6, MW-7, MW-9, and MW-10.
09/13/90	Converse drilled and sampled SG-14 through SG-17.
09/27/90 - 10/01/90	Converse monitored and sampled monitoring wells MW-1 through MW-10.
01/02-03/91	Converse monitored and sampled monitoring wells MW-1 through MW-10.
04/09/91	Converse monitored and sampled monitoring wells MW-1 through MW-10.
07/08/91	Converse conducted soil gas survey off-site on Hegenberger Road.
07/12/91	Converse monitored and sampled monitoring wells MW-1 through MW-10.
10/08/91	Converse monitored and sampled monitoring wells MW-1 through MW-10.
11/21/91	Converse installed pilot vapor extraction wells.
NOTE:	

NOTE:

Boldface items were conducted during this quarter

RAFAT A. SHAHID, Assistant Agency Director

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

April 29, 1992 STID #530

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

Re: Comment on First Quarter 1992 Monitoring Report on Shell Service Station at 285 Hegenberger Rd., Oakland CA 94621

Dear Mr. Kirk:

I have recently reviewed the results of the 1992 first quarter monitoring well results from the above station. Significant dissolved petroleum hydrocarbons and BTEX were again found in a number of the wells. This information supports the items of my previous letter to you where I requested that some type of active remediation be performed to control the plume of dissolved hydrocarbons and BTEX. I also requested the installation of offsite wells to determine if contamination was entering or exiting the property.

This letter disagrees with your consultant's desire to remove the analysis of TPHd from all wells except MW-3. Historically, TPHd was found in soils and groundwater samples at significant levels. Even though the current material identified in the TPHd analysis does not resemble the diesel standard, this is not a reason to remove this parameter from your analyses. Our office also disagrees with the consultants statement that the material is the less volatile constituents of gasoline. Diesel fuel and gasoline are very well separated by gas chromatography and one would expect very little gasoline interference. There would be no quantification of high boiling constituents in the groundwater if TPHd is dropped, with the exception of oil and grease. With these items in mind, the County requests that TPHd be continued as part of the analyses performed at this site.

You may contact me at (510) 271-4320 should you have any questions.

Sincerely,

Barney M. Chan

Hazardous Materials Specialist

cc: M. Thomsom, Alameda County District Attorney Office

R. Hiett, RWQCB

parney or elle-

M. Hurd, Pacific Environmental Group 1-Qtr285Heg

File

RAFAT A. SHAHID, Assistant Agency Director

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

April 22, 1992 STID # 530

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

Re: Overexcavation at Shell Service Station at 285 Hegenberger Rd., Oakland CA 94621

Dear Mr. Kirk:

This letter is to acknowledge the witnessing of the overexcavation in the former hydraulic lift areas at the above referenced site. It was agreed that because of the building's areal constraint, overexcavation would be limited to confined areas around each of the former hydraulic lifts. No further excavation would be required within this building. Excavation was to be performed down to groundwater, approximately 5-7 feet and sidewall confirmatory samples were to be taken in addition to one groundwater sample. These samples should be analyzed for Total Petroleum Hydrocarbons as diesel and as gasoline, (TPHd and TPHg), Total Oil and Grease and Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX). It was also agreed that the soil sample taken from the hoist area nearest the oil/water separator should be analyzed for semi-volatiles and selected heavy metals.

This area will be incorporated in the overall remediation plan of this site. It was noted that additional offsite monitoring wells and on-site active remediation should be proposed by your consultant. Confirmation and control of the dissolved hydrocarbon plume was emphasized by our office. We look forward to receiving your workplan to address these issues.

Please contact me at (510) 271-4320 should you have any questions.

Sincerely,

Barney M. Chan

baines wellon

Hazardous Materials Specialist

1-285Heg

RAFAT A. SHAHID, Assistant Agency Director

March 31, 1992 STID #530

Shell Oil Company Attn: Mr. Paul Hayes P.O. Box 4023 Concord, CA 94524 DEPARTMENT OF ENVIRONMENTAL HEALTH Hazardous Materials Division 80 Swan Way, Rm. 200 Oakland, CA 94621 (510) 271-4320

Subject: Request for Work Plan for Additional Subsurface

Investigation at 285 Hegenberger Rd., Oakland CA 94621

dba Shell Station # 1085

Dear Mr. Hayes:

Please be advised that our division has recently spoke with Mr. Rich Hiett of the Regional Water Quality Control Board regarding taking over the lead for oversight at the above site. Accordingly, until further notice, the County has been delegated this role. This being the case, be advised that this site has been transferred to the Local Oversight Program (LOP) and further correspondence should be addressed to the undersigned. Mr. Ray Newsome of Shell Oil Company has been recently notified of this change.

Upon review of the extensive files, it is obvious that significant petroleum hydrocarbon contamination has been found at this site. Historically, underground storage tanks were replaced in 1984, monitoring wells installed, soil borings were drilled and further site investigation has been proposed. The purpose of this letter is to request a summary of Shell's most recent activities and request a timeframe for additional work.

Clearly, Shell has identified the potential of significant soil and groundwater contamination at this site. In fact ten (10) monitoring wells have been installed on this site around the perimeter and around the underground tanks and fueling islands. From the Converse Environmental West Fourth Quarter 1989 report, high levels of Total Petroleum Hydrocarbons as diesel and as gasoline (TPHd and TPHg) were found in the western section of the site. Levels as high as 440 parts per million (ppm) TPHd and 31,000 ppm TPHg exist in this area. From the Fourth Quarter 1991 report, it is evident that significant dissolved gasoline and benzene, toluene, ethyl benzene and xylenes (BTEX) exist. Levels as high as 55 mg/l (ppm) TPHg and 29,000 parts per billion (ppb) benzene were found in MW7. The GW gradient at this site has been reported to be westerly. Monitoring wells 2,3,4,5 and 8 are perimeter wells which may indicate possible offsite migration of hydrocarbons when detectable amounts are found in these wells. The Fourth Quarter 1991 report indicates detectable amounts of

Mr. Paul Hayes Shell Station #1085 285 Hegenberger Rd. March 31, 1992 STID # 530 Page 2.

hydrocarbons in monitoring wells 2,3 and 5. The levels of dissolved benzene in these wells greatly exceeds the Maximum Contaminant Level (MCL) of 1ppb as recommended by EPA and DOHS.

More recently, the County has overseen the removal of the waste oil tank. We have also been given analytical results of soil and water samples taken after the three hydraulic lifts had been removed. An additional soil sample was taken from the oil/water These results were provided by Mr. Clyde separator area. Galantine of GeoStrategies Inc. Significant oil and grease and high boiling hydrocarbons were found in both the soil and ground water samples. Accordingly, Mr. Galantine requested the County's input as to whether further excavation would be required in this workbay area. The County recognizing that as high as 15,000 ppm of oil and grease was found in a soil sample, requested further excavation, to all extent possible, be performed in this area. It was noted that once this area is walled in and enclosed, future excavation would be impossible. The County has yet to be informed of Shell's intention in this area.

The planned work as outlined in Converse's Fourth Quarter 1989 needs to be performed. These items include:

- 1. The acquisition of permits and right-of-entry for installing offsite upgradient and downgradient wells.
- 2. The creation of a Site Excavation Plan which describes procedures and tasks undertaken to remove soil "hot spots" from the property.
- 3. Implementation of the Site Excavation Plan.

The County is certainly willing to meet with your consultants to discuss the elements of such an excavation plan and will request the presence of the Regional Board if necessary. Earlier reports have mentioned an in-situ approach for remediating contaminated soils. I assume this approach has been abandoned.

To initiate the elements of the planned work as outlined by Converse Environmental West, you are requested to provide a work plan which details a time schedule for the installation of offsite wells and the excavation of contaminated soils. This plan should also include some type of groundwater treatment system which will control the levels and migration of dissolved petroleum hydrocarbons. Please provide such a work plan to this office within (45) days of receipt of this letter.

Mr. Paul Hayes Shell Oil Station #1085 285 Hegenber Rd. March 30, 1992 STID #530 Page 3.

This should be considered a formal request for technical reports pursuant to the California Water Code Section 13267 (b). Failure to provide this information may subject Shell Oil Company to civil liabilities. As you are aware, this office is working in conjunction with the Water Board and all copies of reports, proposals and analytical results must also be sent to their office to the attention of Mr. Rich Hiett.

You may contact me at (510) 271-4320 should you have any questions regarding this letter.

Sincerely,

Barney M. Chan

Hazardous Materials Specialist

Barnez Willia

cc: M. Thomsom, Alameda County District Attorney Office

R. Hiett, RWQCB

Mr. P. Fuller, Converse Environmental West, 55 Hawthorne St., Suite 500, San Francisco, CA 94105-3906

WP2-285Heg

TRIANGLE ENVIRONMENTAL, INC
517 E. WILSON AVE. SUITE 101
GLENDALE, CA 91206
(818) 246-2464

Mr. Ed Howell, Acting Chief Hazardous Materials Division Alameda County Dept. of Envir. Hlth 80 Swan Way, Room 200 Oakland, CA 94621 March 26, 1992 Station #:5043 Oakland

Dear Chief Howell,

Enclosed please find copies of recent tank test results which were done on behalf of Unocal Corporation, West Marketing-Northern Division, San Ramon, CA.

This work was done in compliance with the requirements for annual testing of UST's containing hazardous materials. The procedures we used were also in compliance with the regulations established by the EPA and California State Water Resources Board.

Where additional requirements have been established by local regulatory agencies, we have tried to be aware of these particular requests and consistently apply the proper procedures.

If there have been recent changes in your requirements, we would appreciate receiving any information in writing you can send to the address on this letterhead.

We are striving to be an asset to your county by the quality of our work and our knowledge of your testing program.

If you have questions about these test results or about our company, please call at your convenience.

Sincerely,

David Duke

Enc. Tank Test Results

Triangle Environmenta Inc.
517 East Wilson Ave., Glendale, CA 91206 (818) 246-2464

TEI SYSTEM 4000 SUMMARY SHEET

Precision Underground Storage Tank System Leak Test

WO#: 1360

Client: UNOCAL CORP.

2000 CROW CANYON PL #400.

SAN RAMON, CA 94583.

Date: 3/26/92 County: ALAMEDA

Site:

UNOCAL #5043

449 HEGENBERGER RD.

OAKLAND, CA.

Tank	Product	Tank	Tank/Lines	Product Line	Leak
#	Description	Capacity	Rate/Result	Rate/Result	Detector
1 2 3 4 5	DSL S/UL UNL	10000 10000 10000	+.020 PASS 039 PASS 016 PASS	000 PASS 005 PASS 010 PASS	PASS PASS PASS

Signature:

State License #: 91-1071 Technician Name: PHILLIPS

Date: 3-26-92

Comments:

This precision tank testing system exceeds the criteria required by Local, State and Federal NFPA #329 and EPA UST Technical Standards Part 280 for precision testing systems.

TRIANGLE ENVIRONMENTAL, INC.

E		HEGENBERGER RD.			
	VENT ()				
A T E R		DSL 18K			N
R D R		○ □ S/UL 10K			
K .		O DUNL 10K			
	ØVENTS.	O MONITORING WELL.	UNOCA #5043	L	

Site Layout For: 449 HEGENBERGER RD., OAKLAND, CA.

TEI SYS EM 4000 ANALY IS SHEET

WO# 1360

TANK INFORMATION:

 Product
 DSL
 Date: 03/26/92

 Capacity
 10000
 Time: 11:22:52

PRODUCT INFORMATION:

Diameter (in.) : 91

Product Level (in.): 96" above tank bottom.

Specific Gravity : 0.850 Coef. of Expansion : 0.0004611

Water on Tank (in.): 120" above tank bottom.

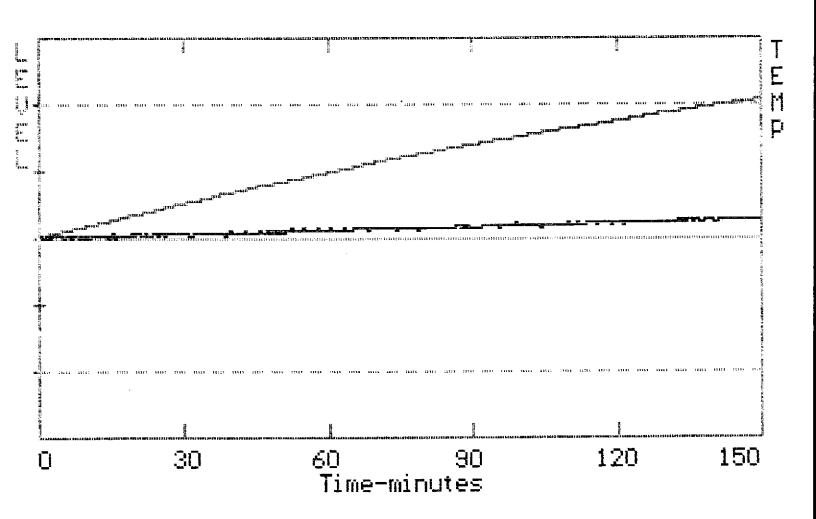
Starting Temp. (F) : 62.826 Resolution (Gallons): 0.00001

Head Pressure (PSI): -1.4 at tank bottom

Delta Temp. (F/Hr.) : 0.026

COMPUTER ANALYSIS RESULTS:

Level Rate (GPH) = 0.141
Temp. Rate (GPH) = 0.121
Final Rate (GPH) = 0.020



TEI SYSTEM 4000 ANALYSIS SHEET

WO# 1360

Date: Ø3/26/92

TANK INFORMATION:

Product : S/UL
Capacity : 10000

Capacity: 10000 Time: 11:22:52

PRODUCT INFORMATION:

Diameter (in.) : 94

Product Level (in.): 96" above tank bottom.

Specific Gravity : 0.740

Coef. of Expansion : 0.0006775

Water on Tank (in.): 120" above tank bottom.

Starting Temp. (F): 65.987
Resolution (Gallons): 0.00017

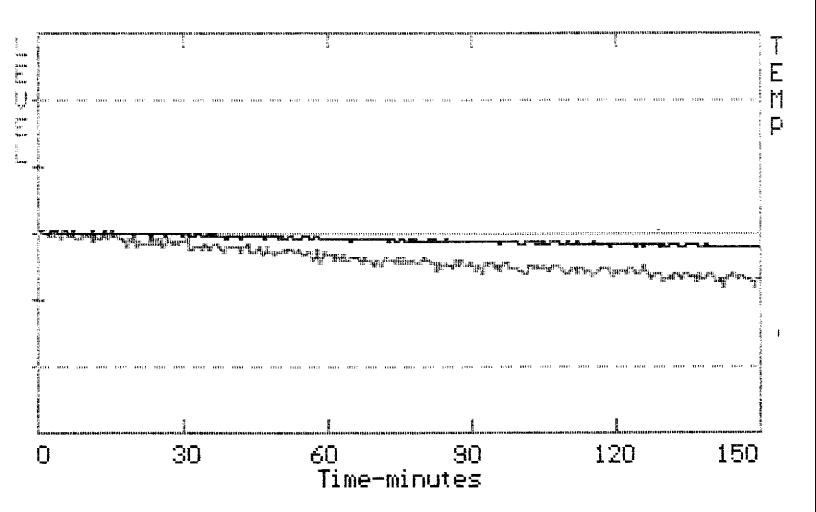
Head Pressure (PSI): -1.8 at tank bottom

Delta Temp. (F/Hr.): -0.023

COMPUTER ANALYSIS RESULTS:

Level Rate (GFH) = -0.119
Temp. Rate (GFH) = -0.158

Final Rate (GPH) = 0.039



TEI SYSTEM 4000 ANALYSIS SHEET

WO# 1360

TANK INFORMATION:

Product : UNL Capacity : 10000 Date: Ø3/26/92 Time: 11:22:52

FRODUCT INFORMATION:

Diameter (in.) : 94

Product Level (in.): 96" above tank bottom.

Specific Gravity # 0.750

Coef. of Expansion : 0.0006646

Water on Tank (in.): 120" above tank bottom.

Starting Temp. (F) : 64.372 Resolution (Gallons): 0.00050

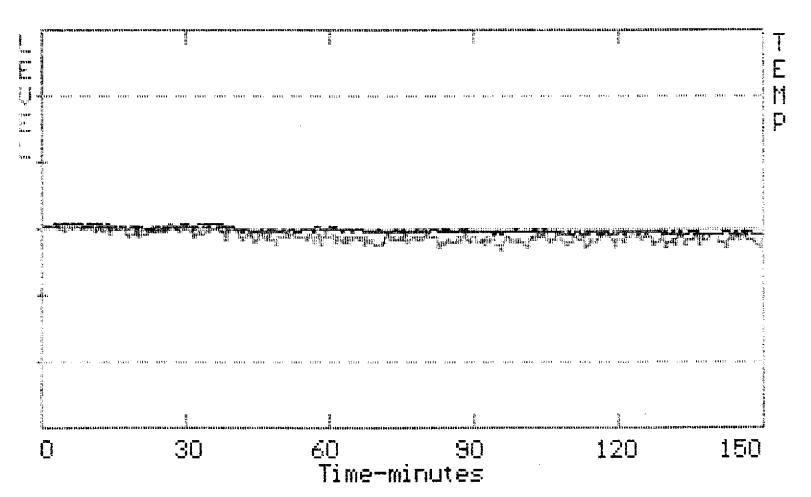
Head Pressure (PSI): -1.7 at tank bottom

Delta Temp. (F/Hr.): -0.013

COMPUTER ANALYSIS RESULTS:

Level Rate (GPH) = -0.102 Temp. Rate (GPH) = -0.086

Final Rate (GPH) = -0.016



Triangle Environmental Inc. 517 East Wilson Ave., Glendale, California 91206

FTA LEAK DETECTOR TEST DATA SHKKT

SITE: (NOCAL #5043 DATE: 3-26-92 449 HEBERBERBERBER RD W/O #: 1360 OAKLAND, CA

Product Type	Serial Number Detector Style	Drain Back ml	Trip Time sec	Test Rate ml/min	Funct. Ele. psi	Tripping Pressure psi	
OSL	40/9/-055/ DLD @DD XLD XLP VPR	350	2/5€	139	12	17	PAJ
SILL	40192-6334 DLD PLD XLD XLP VPR		2/20		10	/0	PAU
LIL	2/289-3762 OLD PLD XLD XLP VPR	60	2/5EC	162	10	9	PAU
	DLD PLD XLD XLP VPR	l					
	DLD PLD XLD XLP VPR						
	DLD PLD XLD XLP VPR						

I certify the above tests were conducted on this date according to the equipment manufacturer's procedures and limitations and the results as listed are to my knowledge true, and correct.

Technician: Fish I Milligne

OTTL# 94107/

The mechanical Leak Detector Test pass/fail is determined using a low flow threshold trip rate of 284 ml per minute or less at 10 psi as set by Red Jacket Pumps Field Test Apparatus testing procedure.

Copyright (c), Triangle Environmental, Inc., January 1991. MRL

Triangle Environmental, Inc. 517 Bast Wilson Ave., Glendale, CA. 91206

PLT-100R HYDROSTATIC PRODUCT LINE RESULT SHEET

SITE: WOCAL # 5043 DATE: 3-26-92 449 HEISENBERGERED

OAKLAND, CA

PRODUCT	START TIME /READING 00:00/ML	END TIME /READING 00:00/ML	TEST PRESSURE (pai)	VOLUME RATE (GPH)	RESULT PASS/ FAIL
DSL	1500	153760	50	000	PAIS
SILL	1415125	1445115	50	005	PAJJ
CAL	14:15	14:45/60	50	0/0	PASS

I certify the above tests were conducted on this date according to the equipment manufacturer's procedures and limitations and the results as listed are to my knowledge true and correct.

Technician: Hit Shilling OTTL# 9)-1071

NOTE:

The Hydrostatic Product Line Test pass/fail is determined using a threshold of 0.05 gallons per hour rate at 150% working pressure or 50 psi which ever is more.

Copyright (c) Triangle Environmental, Inc., March, 1991. MRL

FROM: Darney
SUBJ: Transfer of Elligible Oversight Case
Site name: Shell Service States # 1085 Address: 285 Hegenberger Rd. city Oakland zip 94621
Closure plan attached? Y (N) DepRef remaining \$
DepRef Project # None yet STID #(if any) 530
Number of Tanks: removed? Y (N) Date of removal A/A Samples received? Y N Contamination: moline & BTEX, Oil
Petroleum Y N Types: Avgas Jet leaded unleaded Diesel fuel oil waste oil kerosene solvents
Monitoring wells on site
LUFT category 1 (2) (3) * H S C A R W G O
Briefly describe the following:
Preliminary Assessment
Remedial Action
Post Remedial Action Monitoring
Enforcement Action
Curently his 10 Mws on site Considerable gerobie,
oil contamination en triel & writer. At least as early ac
1989 there was high dissolved 1949 delected on MWS. From R. Hieth,
In the think course
and be cause He enformed me tolay that the land, will be
enstallation of news . He enformed me today that the Courts will be swind lead - Ill transfer to Lot. Appears that there's potential given lead - Ill transfer to Lot. Appears that there's potential
for TPHg + BIEX migration offite (going toward Left).
Need to press Shell to proceed en premised plans to do Excavation of hot spot of install Aprile wells + prempt treat excavation of hot spot of install Aprile wells + prempt treat
excavation of live spot + institute of station

DATE: 3/19/92

Local Oversight Program

State Water Redurces Control Board Division of Clean Water Programs UST Local Oversight Program

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 23, 1992

Dear Sir:

The attached "Notice of Reimbursement" is not a bill. It is required by our contract with the State Water Resouces Control Board that we send this letter to all responsible parties involved in a leaking petroleum underground tank site. You fall into the following category:

You (or your contractor/consultant) deposited funds for us to use to oversee the tank removal followed by the cleanup. Your case has been transferred to the Alameda County Local Oversight Program. This will involve your being billed **after** after the work has been accomplished. It is directed to all responsible parties as the law requires all operators and owners to be notified.

We will continue to work with you to resolve the site remediation in progress.

If you still have any question please call this office at 271-4530 and ask for the specialist noted in the attached notice.

Sincerely,

Thomas F. Peacock, Supervising HMS

Hazardous Material Division

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY DEPARTMENT OF ENVIRONMENTAL HEALTH HAZARDOUS MATERIALS DIVISION 80 SWAN WAY, ROOM 200 OAKLAND, CA 94621 PHONE NO. 415/271-4320

UNDERGROUND TANK CLOSURE PLAN Complete according to attached instructions *

1. Business Name Shell Service Station #1085 Business Owner ___ 5 kell Oil Co White City Concord Zip Phone 5685191

White City Concord Zip 94514 Phone (510) 783 7500

White City Concord Zip 94514 Phone (510) 783 7500

White Address Page Address Page Address Page Address Page 2 2. Site Address 285 Hege berge Rd Address Po Box 4023 city, state Concord, CA Zip 94524 5. Generator name under which tank will be manifested _____ Shell EPA I.D. No. under which tank will be manifested Applied for Dan Roller Const. Sug. Dankerke

rev 12/90

6.	contractor GETTLER - RYAN Inc
	Address _ 2150 W. WINTON Ave
	city HAYWARD, (A Phone (510) 783-7500
	License Type HAZ, A ID# 220793
7.	consultant Geo Stratagies, INC
	Address 2140 W. WINTM Aue
	City Harward Phone (510) 352 - 4800
8.	Name Bob Lawritzen Title Project Manager Phone (510) 783-7500
9.	Number of tanks being closed under this plan
10.	State Registered Hazardous Waste Transporters/Facilities (see instructions).
	** Underground tanks are hazardous waste and must be handled ** as hazardous waste
	a) Product/Residual Sludge/Rinsate Transporter
	Name Crosby-Overton Inc EPA I.D. No. CAD 982524 480-
	Hauler License No. 450744 License Exp. Date 12-31-93
	Address 8430 Amelia St
	city OAKLAND State CA Zip 94621
	b) Product/Residual Sludge/Rinsate Disposal Site
	Name Gibson/Pilot EPA I.D. No. CAD 043260702
	Address 475 Seaport Blud
	city Redwood C. ty State CA zip 94063
	~ 2 -

c) Tank and Piping Transporter
Name Crosby - OVERTON FAC EPA I.D. NO. CAD 982524480
Hauler License No. 450744 License Exp. Date 12-3193
Address 8430 Amelia St
city OAKLAND State CA Zip 94621
d) Tank and Piping Disposal Site
Name Irickson , Inc EPA I.D. No. CAD 0094663
Address 255 Par Blvd
city Richmond State CA Zip 94801
11. Experienced Sample Collector
Name Clyde Galantine
•
company Geo Stratagies, Inc
Address 2140 W, Winton Ave
city Haywand state CA zip 94545 Phone (510) 352-4800
12. Laboratory
Name Seguoia Analytical
Address 680 Chesa peake Dr
city Redwood City State CA Zip 94063
State Certification No. 1210
13. Have tanks or pipes leaked in the past? Yes [] No [X
If yes, describe

14. Describe methods to be used for rendering tank inert

to be added to dry tank	 30 lss	dry ices	per 1000 gal	capacity
	to be	added to	dry tank	0

Before tanks are pumped out and inerted, all associated piping must be flushed out into the tanks. All accessible associated piping must then be removed. Inaccessible piping must be plugged.

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

15. Tank History and Sampling Information

Tank		Material to		
Capacity	Use History (see instructions)	be sampled (tank contents, soil, ground- water, etc.)	Location and Depth of Samples	
550 GAL	waste oil	TANKHOLE SIDE Walls, Ground water	Side wells Jost above Ground water a approx 7ft	
			and the same of th	

One soil sample must be collected for every 20 feet of piping that is removed. A ground water sample must be collected should any ground water be present in the excavation.

I	Excavated/Stockpiled Soil
Stockpiled Soil	1/20 ai yds for veuse or 4/50 au
Volume	yds to be composited in lab for landfill
(Estimated)	disposal

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

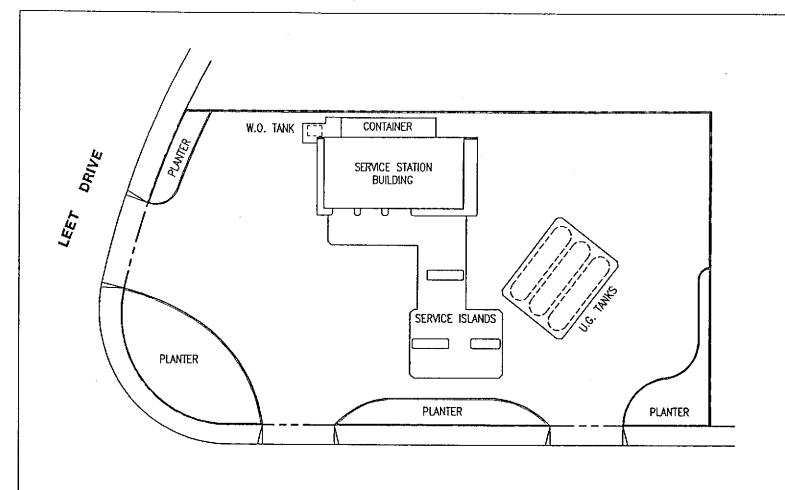
16. Chemical methods and associated detection limits to be used for analyzing samples

The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits should be followed. See attached Table 2.

TPH g 5030 TPH d 3550 BTEX 8020 028240 for Soil Sopph Ippm Sopph Ippm Sopph Ippm Sold Constant Sopph Sold Constant Soil Sopph Sopph	Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Method Number	Method Detection Limit Had Soil
metals semiratiles 8270 Semiratiles	TPHO BIEX Oil & Grave CI He Metals	3550 8020 028240 - 6 602 02 6240 - 6 5520 0 824 8020 028240 601 02624 TCAP 0 AA FOR C	GC/FID For Water Soil Water Sind	20pp loby 20bb loby 20bb loby

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

18. Submit Worker's Compensation Certificate copy
Name of Insurer Republic Indemnity
19. Submit Plot Plan (See Instructions)
20. Enclose Deposit (See Instructions)
21. Report any leaks or contamination to this office within 5 days of discovery. The report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report form. (see Instructions)
22. Submit a closure report to this office within 60 days of the tank removal. This report must contain all the information listed in item 22 of the instructions.
I declare that to the best of my knowledge and belief the statements and information provided above are correct and true.
I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.
I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.
I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.
Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections.
Signature of Contractor
Name (please type) Barry E. McCoy, Gettler-Ryan Inc.
Signature Dam 5 Miloy
Date 2-1992
Signature of Site Owner or Operator
Name (please type) John Werfal, for Shell Oil Co.
Signature School Oil Co.
Date

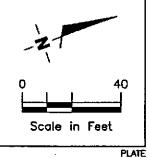


HEGENBERGER ROAD

Base Map:

Shell Oil Company Plot Plan dated September 1991

REVIEWED BY





GeoStrategies Inc.

SITE PLAN Shell Service Station 285 Hegenberger Road Oakland, California

DATE

REVISED DATE

2/92

JOB NUMBER 768201-1



gettler ryan inc.

contractors qeneral

SITE SAFETY PLAN JOB #2206

GENERAL INFORMATION

SITE:

Company:

Shell Oil Co.,

Location:

285 Hegenberger/Leet

City:

Oakland, California

PLAN PREPARED BY: Gettler-Ryan Inc.

DATE: 2-12-92

OBJECTIVES:

To provide a safety plan for the safe completion of the site

PROPOSED DATE OF SITE WORK: 2-24-92

DOCUMENTATION

/SUMMARY:

Hazardous material may be present, caution is advised.

Site work includes removal of 1 waste oil tank and all

related piping.

SITE/WASTE CHARACTERISTICS

WASTE TYPES(S):

Liquid

Solid

Gas

CHARACTERISTICS(S):

Volatile

Flammable

Toxic

FACILITY DESCRIPTION:

Gasoline service station with underground

utilities.

STATUS:

Active

HAZARD EVALUATION

PARAMETER: TLV

300 ppm THC

HEALTH: ingestion, inhalation,

absorption

LEL

10% Gastechtor max.

SPECIAL PRECAUTIONS

AND COMMENTS:

Correct safety procedures must be followed, per Gettler-Ryan Health and Safety Plan. UGST to be inerted per BAAQMD guidelines (Reg. 8, Sec. 40) 30 lbs of dry ice to be placed in tank prior

to removal.

SITE SAFETY WORKPLAN:

PERIMETER ESTABLISHMENT: Use barricades and flagging to restrict access

to tank removal area. Tank excavation to be

fenced while hole is open.

PERSONAL PROTECTION: Level of Protection: EPA Level D

Modifications: Rubber gloves & hard hats

Surveillance Equipment and Material: Gastech

SITE ENTRY PROCEDURES: None

DECONTAMINATION

PROCEDURES: Personal:

sonal: Wash thoroughly with detergent solution

and water

Equipment: Steam clean if necessary

FIRST AID: As applicable

WORK LIMITATIONS (time of day, weather, heat/cold stress): none

INVESTIGATION-DERIVED

MATERIAL DISPOSAL:

Tanks and lines to be manifested and hauled by Crosby-Overton Inc. All materials removed from tank hole to be sampled, placed on visqueen on site and covered until classified for proper

disposal.

TEAM COMPOSITION:

Jim Reed - Job Forman and site safety officer

2 Laborers

1 Operator from Williams engineering

1 Field Technician from GeoStrategies Inc.

EMERGENCY INFORMATION

LOCAL RESOURCES:

Ambulance/Hospital

Police/Sheriff/Highway Patrol

Dial 911 Dial 911 Dial 911

SITE RESOURCES:

Water Supply

Fire Department

Telephone Visqueen

Fire Extinguisher First Aid Kit

Sorbant pads

EMERGENCY CONTACT: Gettler-Ryan Inc.

1-510-783-7500

EMERGENCY ROUTES:

Nearest emergency hospital is:

Humana Hospital 13855 E. 14th Street

510-357-8450

Map Attached

	CERTIF	ICATE OF INS	UI	RANCE		ISSUE DATE (MM/DD/YY) 04/24/91
Woodruff-Sawyer & Co.		THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.				
	– /th Floor			COI	VIPANIES AFF	FORDING COVERAGE
	San Francisco, CA 94104		CON	IPANY A Reg	oublic Indemn	ity
INSURED			COM	IPANY B		
Gettler-Ryan Incorporated		COM	IPANY C		00.	
	2150 West Winton Avenue Hayward, CA 94545-1787		COM	IPANY D	· · · · · · · · · · · · · · · · · · ·	
	Hayward, Cr. 74545-1707		COM	PANY		<u> </u>
CO	VERAGES					
	INDICATED, NOTWITHSTANDING AN'	Y REQUIREMENT, TERM OR COI MAY PERTAIN. THE INSURANCE	NDITI AFF	ON OF ANY CONT ORDED BY THE PO	RACT OR OTHER DLICIES DESCRIBE	ED NAMED ABOVE FOR THE POLICY PERIOD DOCUMENT WITH RESPECT TO WHICH THIS D HEREIN IS SUBJECT TO ALL THE TERMS, AIMS.
CO LTR	TYPE OF INSURANCE	POLICY NUMBER		POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	ALL LIMITS IN THOUSANDS
	GENERAL LIABILITY COMMERCIAL GENERAL LIABILITY					GENERAL AGGREGATE \$
į	CLAIMS MADE OCCUR.					PRODUCTS-COMP/OPS AGGREGATE \$ PERSONAL & ADVERTISING (NJURY \$
	OWNER'S & CONTRACTOR'S PROT					EACH OCCURRENCE \$
						FIRE DAMAGE (Any one fire) \$
						MEDICAL EXPENSE (Any one person) \$
AUTOMOBILE LIABILITY ANY AUTO					COMBINED SINGLE S LIMIT	
\	ALL OWNED AUTOS					BODILY
SCHEDULED AUTOS HIRED AUTOS NON-OWNED AUTOS GARAGE LIABILITY		•				INJURY \$ {Per person}
						BODILY \$
						(Per accident)
		· · · · · · · · · · · · · · · · · · ·				PROPERTY DAMAGE \$
	EXCESS LIABILITY OTHER THAN UMBRELLA FORM	÷				DCCURRENCE \$
WORKER'S COMPENSATION				STATUTORY		
A	AND	PC941426		04/01/91	04/01/92	s 1,000 (EACH ACCIDENT)
-	EMPLOYERS' LIABILITY			0	01102172	\$ 1,000 (DISEASE—POLICY LIMIT) \$ 1,000 (DISEASE—EACH EMPLOYEE)
	OTHER .					3 1,000 (DISEASE—EACH EMPLOYEE)
DES	RE: Facility 285 Hegenberger Rd, Oakland, CA.					
CE	RTIFICATE HOLDER		CAN	ICELLATION		
County of Alameda, Dept. of Environmental Health O Swan Way, Room 200 Oakland, CA 94621		SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 10 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY VTS AGENTS OR REPRESENTATIVES. AUTHORIZED REPRESENTATIVE				
7,0	ORD 25-5 (11/89)				WIRGH	
						CAIR Systems (00/90)

10/29/91 449 Heg Rd Denny Gon Getler Ryan Unoral - Dich Bradeil product line trench next to dispenses 6W 4-4/2 bgs 4 Spler: TPH 370 9 taken in trench pit 460 d Propose to; It cause product trench + Canapy pad Goog to GW, install MW., then install levent extent. Will runte a report, document results of piper Sples. Should receive a work plan proposal WTi 1 monte leg 11/29/91.

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTITUT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
80 SWAN WAY, ROOM 200

80 SWAN WAY, ROOM 200 OAKLAND, CA 94621 PHONE NO. 510/271-4320

10/91



A & S ENGINEERING ... IC.

207 W. ALAMEDA #202, BURBANK, CA 91502 Phone: (818) 842-3644 FAX: (818) 842-3760 (510) 933 - 0576

Project Specialist:		• • • • •	E PADILLA ECT ENGINEER	
B. Chan	PLAN SE	NNING EN CONSTRUC	GINEERING FION MANAGEMENT	PERMITS
<u>~~~</u>	3 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	·		
	The Republicant of the Republica			
Simple Company of the	The same			
	222			
	できまま			
\mathcal{L}	言語			
UNDERGROUND * * * Complete accordin	TANK INSTALLATIOng to attached in	ON PLAN estructions	* * *	
1. Business NameSHELL C	DIL COMPANY			
Business Owner SHELL (DIL COMPANY			
2. Site Address 285 HEGEN	IBERGER ROAD	& LEET	DRIVE	
city <u>OAKLAND</u>	Zip	Phone		
3. Mailing Address 1390 WIL	LOW PASS ROAD	SUITE,	900	<u>.</u>
city CONCORD , CA	,zip 945		675 - 6134	•
4. Land Owner SHELL OIL	COMPANY			•
Address 1390 WILLOW F	PASS ROAD, SI	JITE 900		
City, State CONCORD, C	· · · · · ·		Zip <u>9452</u> 4	

5. Tank Information: Note: any special treatment to prevent corrosion, details of catheric protection, piping coalligs, and any special or unique equipment not otherwise noted. 15 gallon minimum overfill protection is required. Attach appropriate manufacturer brochures and instructions for clarity.

Manufacturer	Model	Size(gal.)	Material/Design	Contents
Monitoring Eq*	Model	Manual/Auto	line leak Detect	Monitoring Meth
,				

^{*} a copy of the manufacturer's brochure must be submitted with tank installation diagrams. It must show test methods and procedures.

6. 1	contractor TO BE DETERMINED	. •
,	Address	
	City	Phone
	License Type ID#	
7.	Submit Worker's Compensation Certificate cop	ру
	Name of Insurer	
8.	Contact person for installation VINCE PA	DILLA - A & S ENGINEERING
	Phone 510 933-0578 Title PROJECT E	NGINEER Cf. Suite 303 Walnut Ca
9. eng	Submit 3 set of scaled Blue Prints: consistincering descriptions of the installation at lowing information:	ting of detailed (4.9459)
	a) North Arrow, property Lines, location of b) plan views and elevations of tanks, pipe as well as schematics of all appurtenant ed devices to be installed, utilities; c) Existing wells (drinking, monitoring, ed d) Depth to ground water; and e) All existing tanks and piping in addition	<pre>ing runs, and dispensers, quipment and monitoring tc.);</pre>
	<pre>installed/modified. f) electrical and wiring diagrams, including g) installation specifications and constructions.</pre>	ng emergency shutoff. ction standards to be
10.	Enclose Deposit: A deposit, payable to Alameda County for the Alameda County Underground Storage Tandaccompany the plans. The time spent on the on an hourly basis at the current service conclusion of the project will be refunded designee.	k Fee Schedule, must e project will be charged rate. Any refund at the
*	One complete copy of your approved plan mu	

- One complete copy of your approved plan must be at the construction site at all times; a copy of your approved plan must also be sent to the landowner.
- 11. Of the three sets of plans submitted, two will be returned after review and approval. Next you must contact the appropriate fire and building departments for any required permits. You must schedule at least 3 days in advance for the following inspections: piping inspection prior to covering, and final inspection prior to operating. A precision test will be required on the system to assure it does not leak. Any questions or problems should be referred directly to the specialist assigned to your project.

- .12. Blank Unauthorized Leak/Contamination Site Report forms may be obtained in limited qualities from our office and from the San Francisco Bay Regional Water Quality Control Board (510/464-1255). Larger quantities may be obtained directly from the State Water Resources Control Board at (916) 739-2421.
 - 13. As-built plans are to be submitted within 30 days of completion. Permit Application Forms A, B('s), and C('s) are to be submitted and fees paid prior to operation of the tanks.
 - 14. A written monitoring plan must be submitted prior to the operation of the tank and prior to the issuance of a permit. I declare that to the best of my knowledge and belief the statements and information provided above are correct and true.
 - 15. These instructions do not apply in the city limits of Fremont, Newark, Union City, Hayward, Pleasanton, Berkeley, or San Leandro as they enforce their own underground tank regulatory program.

I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Once I have received my stamped, accepted installation plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections.

 DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
80 SWAN WAY, ROOM 200
OAKLAND, CA 94621
PHONE NO. 510/271-4320

10/91

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tas the
K. E. S.
1 2 2 E

UNDERGROUND TANK INSTALLATION PLAN: * * * Complete according to attached instructions * * *

1.	Business Name SHELL OIL COMPANY
	Business Owner SHELL OIL COMPANY
2.	Site Address 285 HEGENBERGER ROAD & LEET DRIVE
	City OAKLAND Zip Phone
3.	
٠	Mailing Address 1390 WILLOW PASS ROAD, SUITE 900 city CONCORD, CA. Zip 94524 Phone 675-6134
	Land Owner SHELL OIL COMPANY
	Address 1390 WILLOW PASS ROAD, SUITE 900
Cit	cy, State CONCORD, CA. Zip 94524

corrosion, details of cathodic protection, piping coatings, and any special or unique equipment not otherwise noted. 15 gallon minimum overfill protection is equired. Attach appropria manufacturer brochures and instructions for clarity.

Manufacturer	Model	Size(gal.)	Material/Design	Contents
				ķ ⁱ .
_				
Monitoring Eq*	Model	Manual/Auto	line leak Detect	Monitoring Meth
•				
			1	

^{*} a copy of the manufacturer's brochure must be submitted with tank installation diagrams. It must show test methods and procedures.

,	, Address	
	City	Phone
	License Type ID	#
7.	Submit Worker's Compensation Certifica	te copy
	Name of Insurer	
8.	Contact person for installation VINO	= PADILLA - A & S ENGINEERING
	Phone 510) 933-0578 Title PROJEC	J ENGINEER
	•	

- 9. Submit 3 set of scaled Blue Prints: consisting of detailed engineering descriptions of the installation and must include the following information:
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 - b) plan views and elevations of tanks, piping runs, and dispensers, as well as schematics of all appurtenant equipment and monitoring devices to be installed, utilities:
 - c) Existing wells (drinking, monitoring, etc.);
 - d) Depth to ground water; and
 - e) All existing tanks and piping in addition to the ones being installed/modified.
 - f) electrical and wiring diagrams, including emergency shutoff.
 - g) installation specifications and construction standards to be followed.
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 - A deposit, payable to Alameda County for the amount indicated on the Alameda County Underground Storage Tank Fee Schedule, must accompany the plans. The time spent on the project will be charged on an hourly basis at the current service rate. Any refund at the conclusion of the project will be refunded to the owner or his/her designee.
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Name (please type)

Signature

Date

Signature of Site Owner or Operator

Name (please type)

Signature AGENT FOR SHEU OIL

Date 10/23/91



<

KEY TO ABBREVIATIONS and METHOD REFERENCES

Less than; When appearing in results not detected at the value following.	column indicates analyte This datum supercedes
the listed Reporting Limit.	vilution factor for any

Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).

Initial Calibration Verification Standard (External Standard). ICVS

: Average; sum of measurements divided by number of measurements.

mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).

Concentration in units of milligrams of analyte per liter of mg/L

sample.

: Milliliters per liter per hour. mL/L/hr

: Most probable number of bacteria per one hundred milliliters MPN/100 mL

of sample.

: Not applicable. N/A

: Not analyzed.

Not detected; the analyte concentration is less than applicable NA ND

listed reporting limit.

Nephelometric turbidity units. NTU

Relative percent difference, 100 [Value 1 - Value 2]/mean value. RPD

Standard not available. SNA

Concentration in units of micrograms of analyte per kilogram ug/Kg (ppb) :

of sample, wet-weight basis (parts per billion).

: Concentration in units of micrograms of analyte per liter of ug/L

sample.

: Micromhos per centimeter. umhos/cm

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 16th Edition, APHA, 1985.



Client No: 18.02

EClient Name: Converse Consultants

NET Log No: 1311

Date: 10-17-91

Page: 7

Ref: SHELL, 285 Hegenberger, Oakland, Project: 88-44-359-20

Descriptor, Lab No. and Results

			MW-10 10-08-91 1330	0-08-91 10-08-91	
B		Reporting	100005+++	100096	Units
Parameter	Method	Limit	100095***	100096	OHITCS
PETROLEUM HYDROCARBONS					
VOLATILE (WATER)					
DILUTION FACTOR *			5	1	
DATE ANALYZED			10-10-91	10-10-91	
METHOD GC FID/5030					
as Gasoline		0.05	3.8	ND	mg/L
METHOD 602					
DILUTION FACTOR *			5	1	
DATE ANALYZED			10-10-91	10-10-91	
Benzene		0.5	13,000	1.2	ug/L
Ethylbenzene		0.5	9.1	ND	ug/L
Toluene		0.5	82	ND	ug/L
Xylenes, total		0.5	500	ND	ug/L
PETROLEUM HYDROCARBONS					
EXTRACTABLE (WATER)					
DILUTION FACTOR *			1	1	
DATE EXTRACTED			10-11-91	10-11-91	
DATE ANALYZED			10-13 -9 1	10-13-91	
METHOD GC FID/3510					
as Diesel		0.05	1.5**	ND	mg/L
as Motor Oil		0.5	1.2	ND	mg/L

** Note: The positive result for the PETROLEUM HYDROCARBONS as Diesel analysis on this sample appears to be a lighter hydrocarbon than Diesel.

*** Note: Unusually high Benzene concentration contributed to Gasoline value.

Vial to vial variability apparent when sample was re-run at 500x dilution for Benzene.



Client No: 18.02

Client Name: Converse Consultants

NET Log No: 1311

Date: 10-17-91

Page: 8

Ref: SHELL, 285 Hegenberger, Oakland, Project: 88-44-359-20

Descriptor, Lab No. and Results

Field Blank 10-08-91

			1115		
		Reporting			
Parameter	Method	Limit	100097	Units	
PETROLEUM HYDROCARBONS		-			
VOLATILE (WATER)					
DILUTION FACTOR *			1	•	
DATE ANALYZED			10-10-91		
METHOD GC FID/5030					
as Gasoline		0.05	ND	mg/L	
METHOD 602				the second second	
DILUTION FACTOR *			1		
DATE ANALYZED			10-10-91		
Benzene		0.5	ND	ug/L	
Ethylbenzene		0.5	ND	ug/L	
Toluene		0.5	0.7	ug/L	
Xylenes, total		0.5	ND	ug/L	
PETROLEUM HYDROCARBONS					
EXTRACTABLE (WATER)					
DILUTION FACTOR *			1		
DATE EXTRACTED			10-11-91		
DATE ANALYZED			10-13-91		
METHOD GC FID/3510					
as Diesel		0.05	ND	mg/L	
as Motor Oil		0.5	ND	mg/L	



Client Acct: 18.02

Client Name: Converse Consultants

NET Log No: 1311

Date: 10-16-91

Page: 9

Ref: SHELL, 285 Hegenberger, Oakland, Project: 88-44-359-20

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Diesel	0.05	mg/L	115	ND	85	86	1.1
Motor Oil	0.5	mg/L	124	ND	N/A	N/A	N/A
Diesel	0.05	mg/L	120	ND	138	127	8.3
Motor Oil	0.5	mg/L	102	ND	N/A	N/A	N/A
Gasoline	0.05	mg/L	95	ND	102	89	14
Benzene	0.5	ug/L	109	ND	113	100	12
Toluene	0.5	ug/L	107	ND	110	99	11
Gasoline	0.05	mg/L	97	ND	115	109	5.4
Benzene	0.5	ug/L	94	ND	107	102	4.8
Toluene	0.5	ug/L	95	ND	106	102	3.8

COMMENT: Blank Results were ND on other analytes tested.

Article 3. New Underground Storage Tank Construction and Monitoring Standards

2630. General Applicability of Article

- (a) The standards in this article apply to owners of new underground storage tanks. Underground storage tanks installed between January 1, 1984 and the effective date of these amendments, August 9, 1991, may be deemed to be in compliance with the standards in this article if they were installed in accordance with Federal and State standards that existed at the time of installation. However, the requirements in Article 6 must be complied with if applicable.
- (b) Sections 2631 and 2632 of this article specify construction and monitoring standards for all new underground storage tanks. New underground storage tanks that only store motor vehicle fuels may be constructed and monitored pursuant to the standards specified in sections 2633 and 2634 of this article in lieu of those specified in sections 2631 and 2632 of this article. However, if the construction standards in section 2633 of this article are used, then the monitoring standards of section 2634 of this article shall also be used.
- (c) All new underground storage tanks, piping, and secondary containment systems shall comply with section 2635 of this article.

Authority: Health and Safety Code 25299.3, 25299.7 Reference: Health and Safety Code 25281, 25291 40 CFR 280.20

2631. Construction Standards for New Underground Storage Tanks

- (a)
 All new underground storage tanks including associated piping used for the storage of hazardous substances shall be required to have primary and secondary levels of containment. Secondary containment can be manufactured as an integral part of the primary containment or it can be constructed as a separate containment system.
- (b) All primary containment including any integral secondary containment system, shall be designed and constructed according to an industry code or engineering standard approved by an independent testing organization for the applicable use. All other components such as special accessories, fittings, coatings or linings, monitoring systems and level controls used to form the underground storage tank system shall bear an approval from an independent testing organization. This requirement shall become effective on July 1, 1991 for underground storage tanks, January 1, 1992 for piping, and July 1, 1992 for all other components. The exterior surface of underground storage tanks shall bear a marking, code stamp, or label showing the following minimum information:

(1) Engineering standard used;
(2) Nominal diameter in feet;
(3) Nominal capacity in gallons;
(4) Degree of Secondary Containment;
(5) Useable capacity in gallons;

Design pressure in psig;Maximum operating temperature in degrees Fahrenheit;

(8) Construction materials;

(10) Manufacturer.

- (c) A primary containment system with or without an integral secondary containment system shall have wear plates (striker plates) installed, center to center, below all accessible openings. The plates shall be made of steel or other appropriate material if steel is not compatible with the hazardous substance stored. The width of the plate shall be at least eight inches on each side, or shall be equal to the area of the accessible opening or guide tube, whichever is larger. The thickness of the steel plate shall be at least 1/8 inch and those made of other materials shall be of sufficient thickness to provide equivalent protection. The plate, if under 1/4 inch thick, shall be rolled to the contours of the underground storage tank and all plates shall be bonded or tack welded in place.
- (d) A secondary containment system such as vaults, shall be designed and constructed according to an engineering specification approved by a state licensed engineer or according to a nationally recognized industry code or engineering standard. The engineering specification shall include the construction procedures. Materials used to construct the secondary containment system shall have sufficient thickness, density, and corrosion resistance to prevent structural weakening or damage to the secondary containment system as a result of contact with any released hazardous substance. The following requirements apply to all secondary containment systems:
 - (1) The secondary containment system shall be constructed to provide at least the following volumes:
 - (A) 100 percent of the usable capacity of the primary containment system where only one primary container is within the secondary containment system.
 - (B) In the case of multiple primary containers within a single secondary containment system, the secondary containment system shall be large enough to contain 150 percent of the volume of the largest primary container within it, or 10 percent of the aggregate internal volume of all primary containers within the secondary containment system, whichever is greater. When all primary containers are completely enclosed within the secondary containment system, the restrictions of this subsection do not apply.
 - (2) If the secondary containment system is open to rainfall, it shall be constructed to accommodate the volume of precipitation which could enter the secondary containment system during a 24-hour, 25-year storm in addition to the volume required in subsection (d)(1) of this section.

3.1 California UGST Reg Aug 1991 DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
80 SWAN WAY, ROOM 200
OAKLAND, CA 94621
PHONE NO. 510/271-4320

Project Specialist:

B(Nar

A Marian

UNDERGROUND TANK INSTALLATION PLAN

* * * Complete according to attached instructions * * *

1.	Business Name _ SHELL OIL COMPANY
	Business Owner SHELL OIL COMPANY
2.	Site Address 285 HEGENBERGER ROAD & LEET DRIVE
	City OAKLAND Zip Phone
3.	
	Mailing Address 1390 WILLOW PASS ROAD, SUITE 900 city CONCORD, CA, zip 94524 Phone 675-6134
4.	Land Owner SHELL OIL COMPANY
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Cit	ty, State CONCORD, CA. Zip 94524

corrosion, details of cathodic protection, piping coatings, and any special or unique equipment not otherwise noted. 15 gallon minimum overfill protection is quired. Attach appropriate manufacturer brochures and instructions for clarity.

Manufacturer	Model	Size(gal.)	Material/Design	Contents
				20
Monitoring Eq*	Model	Manual/Auto	line leak Detect	monitoring meth

^{*} a copy of the manufacturer's brochure must be submitted with tank installation diagrams. It must show test methods and procedures.

	Address						
•	city		Phone				
	License Type	ID#					
7.	Submit Worker's Compensat:	ion Certificate copy	,				
	Name of Insurer						
8.	Contact person for install Phone 50 933-0578	llation <u>VINCE PADI</u> itle <u>PROJECT EN</u>	ILA - A & S ENGINEE IGINEER	RING			

- 9. Submit 3 set of scaled Blue Prints: consisting of detailed engineering descriptions of the installation and must include the following information:
 - a) North Arrow, property Lines, location of all structures;
 - b) plan views and elevations of tanks, piping runs, and dispensers, as well as schematics of all appurtenant equipment and monitoring devices to be installed, utilities;
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 - d) Depth to ground water; and
 - e) All existing tanks and piping in addition to the ones being installed/modified.
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 - g) installation specifications and construction standards to be followed.
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 - A deposit, payable to Alameda County for the amount indicated on the Alameda County Underground Storage Tank Fee Schedule, must accompany the plans. The time spent on the project will be charged on an hourly basis at the current service rate. Any refund at the conclusion of the project will be refunded to the owner or his/her designee.
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Signature of Contractor Name (please type) Date _____ Signature of Site Owner or Operator

Signature Jadilla - AGENT FOR SHELL OIL

Date 10/23/91



55 Hawthorne Street, Suite 500 San Francisco, California 94105-3906

Telephone **415 543-4200** FAX 415 777-3157

90 APR 26 AM 10: 30

April 19, 1990 88-44-359-20-585

Ms. Dyan Whyte Water Resource Control Engineer San Francisco Bay Regional Water Quality Control Board 1800 Harrison, Suite 700 Oakland, California 94607

Subject: Addendum to Quarter 1, 1990 Report

Shell Oil Company 285 Hegenberger Road Oakland, California

Dear Ms. Whyte:

Converse Environmental West (CEW) is providing your office with this addendum to the Quarter 1, 1990 (Q1/90) for the Shell Oil company site at 285 Hegenberger Road, Oakland, California. CEW intends to verify the soil total petroleum hydrocarbons as gasoline (TPH-g at 31,000 ppm) contained in SB-5. During Quarter 2, 1990, CEW plans to install and sample one soil boring (SB-14), adjacent to SB-5, for TPH-g, TPH-d, BTEX and lead (Drawing 11). The soil boring is scheduled to be drilled, and properly abandoned, at the same time as the proposed offsite monitoring well.

The Q1/90 report Potentiometric Map (Drawing 4) contained accidental typos to contour lines 1.6 and 1.8. A revised copy is enclosed for your file. CEW apologizes for any inconvenience this error may have caused you.

88-44-359-20 Ms. Dyan Whyte SFBRWQCB April 19, 1990 Page 2

If you have any questions please call me at (415) 543-4200.

Very truly yours,

Converse Environmental West

Robin M. Breuer

Principal Regulatory Specialist

RMB:dng

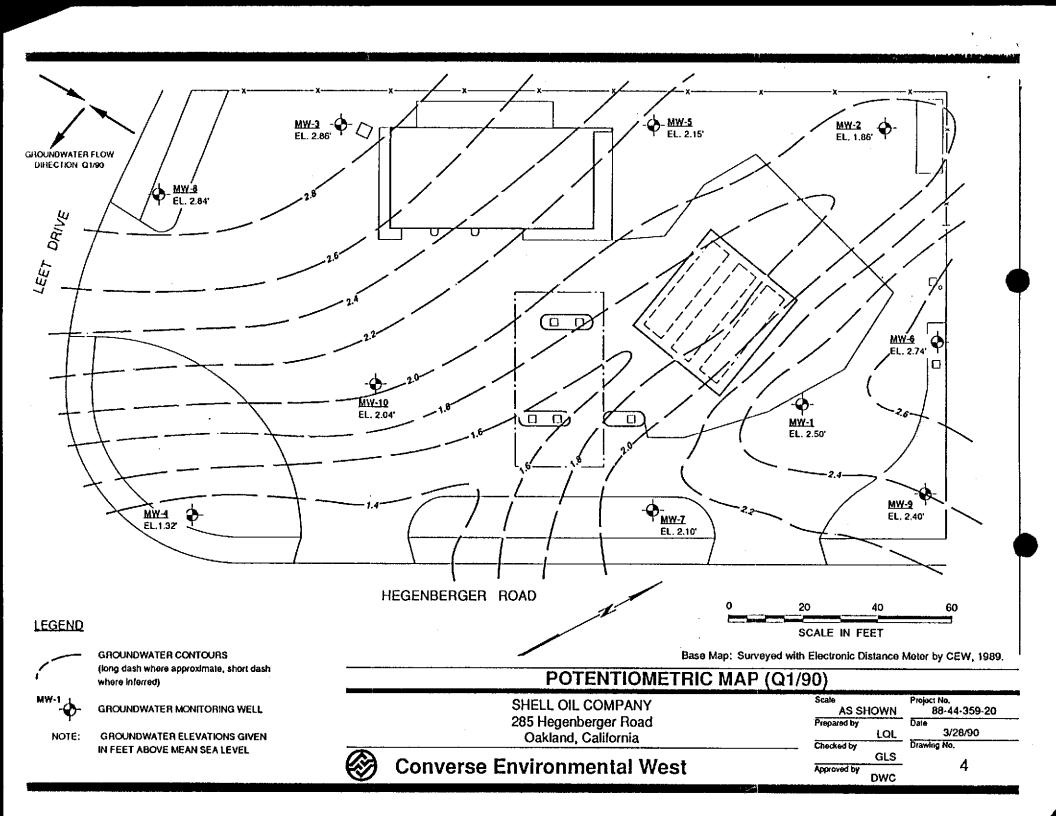
Enclosure

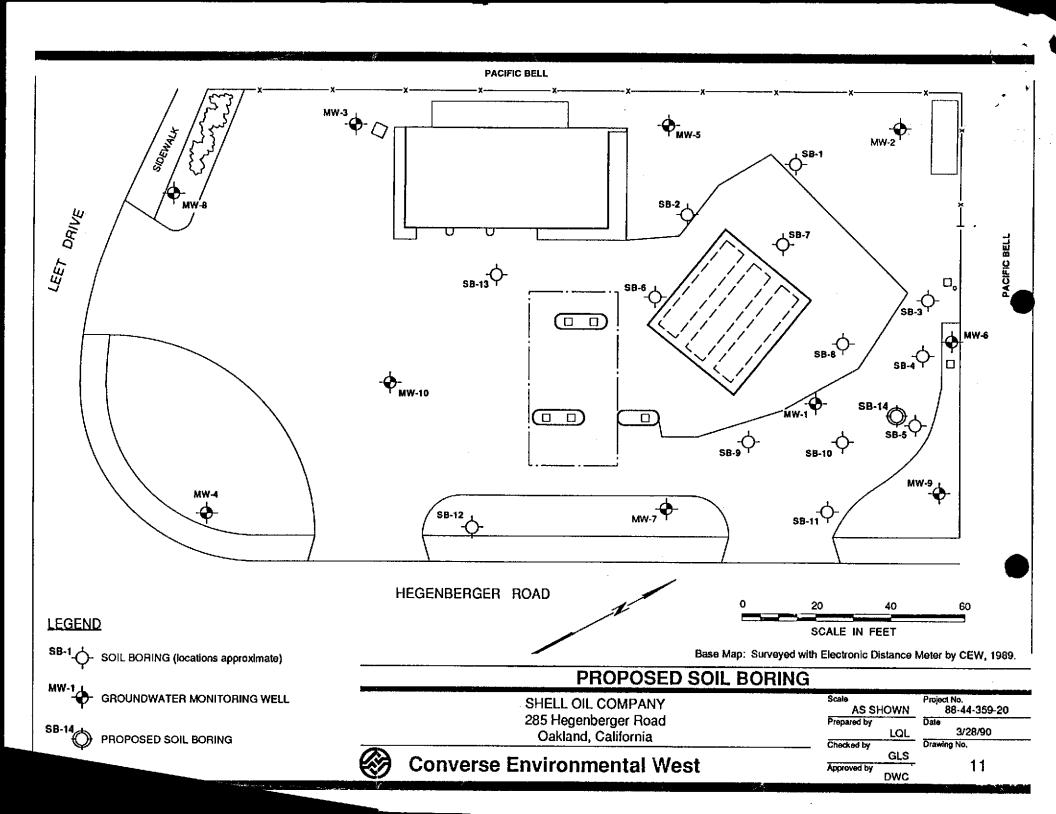
cc: Mr. Rafat Shahid - Alameda County Health Care Services (w/ encl.)

Mr. Paul Hayes - Shell Oil Company

Ms. Diane Lundquist - Shell Oil Company

Mr. Douglas Charlton - Converse Environmental West (w/ encl.)







55 Hawthorne Street, Suite 500 San Francisco, California 94105-3906

Telephone 415 543-4200 FAX 415 777-3157

March 30, 1990 88-44-359-20-519

Ms. Penny Silzer

San Francisco Bay Regional Water Quality Control Board

1800 Harrison Street, Room 700

Oakland, California 94612

Subject: Shell Oil Company - Quarter 1, 1990 Report

285 Hegenberger Road Oakland, California

Dear Ms. Silzer:

94621

Enclosed please find one copy of the Shell Oil Company Quarterly Report of Activities Quarter 1, 1990 prepared by Converse Environmental West (CEW) -San Francisco.

Please call if you have any questions.

Very truly yours,

Converse Environmental West

Douglas W. Charlton Vice President

RMB:gts

Enclosure

cc: Mr. Rafat Shahid - Alameda County Health Care Services (w/ encl.) Ms. Robin M. Breuer - CEW (w/ encl.)

Pote Fuller:



ROBERT H. LEE & ASSOCIATES, INC.

ARCHITECTURE

PLANNING

ENGINEERING

900 LARKSPUR LANDING CIRCLE, #125, LARKSPUR, CA 94939 · (415) 461-8890

December 16, 1987

Mr. Ariu Levi Alameda County Environmental Health Hazardous Materials Division 470-27th Street, #324 Oakland, CA 94612

RE: WASTE OIL TANK REMOVAL AND INSTALLATION

SHELL SERVICE STATION 285 HEGENBERGER ROAD OAKLAND CA

OAKLAND, CA JOB #6571

Dear Ariu:

Enclosed is a revised Closure Plan for resubmittal for the above project. Please void the previously submitted Closure Plan.

As per our phone conversation on Friday, December 11, I have also included the following information for the Health Department's approval of our Installation Plan.

Groundwater Level: I checked with Alameda County Flood Control who said the ground water level was at a depth of 9 to 11 feet when checked on December of 1986 at the well located at Adams and McCormick streets, approximately a half mile south of the site. They said that the groundwater level of this well would approximate the level of groundwater at the waste oil tank location.

Waste Oil Tank/Monitoring System: Enclosed is the Owens-Corning Fiberglas Double Wall Tank brochure. Pages 12 to 17 deal specifically with the double wall tank fittings and the hydrostatic tank monitoring system that will be installed at this location.

<u>Vadose Well:</u> After review of both the revised Title XXIII and the May 1987 Alameda County Water District Monitoring Guidelines for Hazardous Materials Storage, it appears that monitoring wells are not needed with new double wall tanks. These reports indicate that the purpose of vadose wells is to detect leakage of hazardous materials from single wall tanks into ground water or soils. I have included Article 3 of Title XXIII, New Underground Storage Tank Construction and Monitoring Standards as well as the Administration and Enforcement Agencies section of the ACWD Monitoring Guidelines for Hazardous Materials Storage. Both are for your review.

CLOSURE PLAN

Revised December 16, 1987

Facility Information

Facility Name:

Facility Address:

Business Phone:

Owner: Address:

Contact Person:

Telephone:

Shell Oil Service Station

285 Hegenberger Road Oakland, CA 94621

(415) 568-5191

Shell Oil Co. P.O. Box 4023 Concord, CA 94524

Ray Newsome

(415)676-1414, ext. 128

Contractor Information

General Contractor:

Petroleum Engineering 11 West 9th Street Santa Rosa, CA 95401 (707) 545-0360

Tank Removal Contractor:

Petroleum Engineering 11 West 9th Street Santa Rosa, CA 95401

Soil Samples:

BlaineTech Services 1370 Tully Road, #505 San Jose, CA 95122 (408) 723-3974

Soil Testing Lab:

Sequoia Analytical Laboratory

2549 Middlefield Road Redwood City, CA 94063

(415) 364-9222

- I. Sampling and Analysis Activities:
 - A) Samples are retrieved from either end of tank, placed in brass tubes and placed into ice. A chain-of-custody is made out and signed and delivered to the lab.
 - B) Samples are analyzed for:
 - 1) Waste Oil Tanks:

In soil: E.P.A. 503E (total oil and grease).
E.P.A. 8015 (high boiling fraction).
E.P.A. 8240 (solvent).

In water: E.P.A. 624 (low boiling point fraction).

- II. Decontamination of equipment:
 - A) Tanks are triple rinsed on site and inerted.
 - B) Tanks are place on trucks and delivered to a tank facility for final cleaning and torch cutting.
- III. Waste Materials to be disposed:
 - A) Rinsate from tank cleaning is placed on a Hazardous Waste Manifest and disposed of at an authorized facility.
 - B) Contaminated soil must be placed on a Hazardous Waste Manifest and disposed of at an authorized facility.

RINSATER LEW PIEN ASSET FOR TANK WEN HAZANSONS

SHELL OIL CORPORATION 3

CALIFORNIA RÉGIONAL WATER QUALITY CONTROL BOARD

County of ALAMEDA

Date of Report: 09/25/89

Site ID:

204-5508-5504

285 HEGENBERGER

City of OAKLAND

Actions in past three months: INSTALLED 1 /SAMPLED 9 WELLS; REVISED SITE MAP; REVISED ONSITE GRADIENT; REVISED EXTENT OF SOIL AND GROUNDWATER PLUMES.

Actions planned for next three months: DRILL AND SAMPLE 1 WELL AND 2 BORINGS, CONTINUE GROUNDWATER MONITORING, AND RE-EVALUATE GRADIENT.

Soil contamination defined?
Free product plume defined?
Dis'ld conet'et plume defined?
d?

No None No Soil clean-up in progress? Free product clean-up in progress? Dis'ld const'nt clean-up in progress? No None No

putate prist

301

630 HIGH STREET

City of OAKLAND

nonths: DRILLED AND SAMPLED 4 WELLS AND 1 BORING; DWATER MONITORING; REVISED GEOMETRIES OF SOIL AND UNSITE; AND REVISED GROUNDWATER GRADIENT.

Actions planned for next three months: DRILL AND SAMPLE 3 BORINGS; CONTINUE GROUNDWATER MONITORING; PREPARE QUARTERLY REPORT.

Soil contamination defined? Free product plume defined? Dis'ld const'nt plume defined? Contractor: CONVERSE No None No

Soil clean-up in progress? Free product clean-up in progress? Dis'ld const'nt clean-up in progress? No None No

Permit Application



□ 02 Provisional Permi]os Rene	s Renewed Permit			Os Amended Permit		
I Owner	184								
Name (Corporation Individual or Public Agency) SHELL OIL COMPANY									
Stroet Address	00111 11111				City		15	State	ZIP
P.O. BOX 4	023				CON	CORD		CA	94524
II Facility									
Facility Name	- Contract C								
SHELL OIL Street Address	SHELL OIL SERVICE STATION BILLY M. HAYES Street Address Nearest Cross Street								
285 HEGENB	ERGER RO	AD						T DR	IVE
City CART AND	===					County		÷	ZIP
OAKLAND Mailing Address		 	···-·		Cily	ALAMEDA		Slate	ZIP
RAY NEWSOM	E, SHELL	OIL COMP		023	CON	CORD		CA	94524
Phone w/area code (415) 676-	1/1/ Dark	120	Type of Business Stor Gasoline S	tation		🗆 oz Other:	•		
NUMBER OF CONTAINERS	Rural Areas	Township	CX or dasonne s	Range		D 02 Other.	Section		
AT THIS FACILITY	Only:								
III 24 Hour Emerge	ncy Contact	Person							
Days Name (last name first) and P		-) 560 51	1 *			ill and Phone w area co		AL 12	20
BILLY M. H.	BILLY M. HAYES (415) 568-5191 RAY NEWSOME (415) 579-6439								
COMPLETE THE FOLLOWING ON A SEPARATE FORM FOR EACH CONTAINER									
IV Description									
A. 🔀 or Tank 🗆 c2 Other:									
B. Manufacturer (if appropriate): OWENS-CORNING Year of Mfg.: C. Year Installed: 12/87 Unknown									
D. Container Capacity: 550 gallons □ Unknown E. Does the Container Store (Check One): 10 or Waste □ ∞ Product									
F. Does the Container Store Motor Vehicle Fuel or Waste Oil? XD of Yes □ o₂ No □ If Yes, Check appropriate box(es):									
□ or Unleaded □ o₂ Regular □ o₃ Premium □ o₄ Diesel 🗴 o₃ Waste Oil □ o₅ Other (List):									
If you answered yes; do not complete Part VIII.									
V Container Construction									
A. Thickness of Primary Containment: 0.24 ☐ Gauge 私 Inches ☐ cm ☐ Unknown									
B. □ or Vaulted (Located in an underground Vault.) 🍇 or Non-vaulted □ or Unknown									
C. ☐ Double Walled ☐ 02 Single Walled ☐ 03 Lined									
D. □ or Carbon Steel □ or Stainless Steel 💆 or Fiberglass □ or Polyvinyl Chloride □ or Concrete □ or Aluminum									
□ or Steel Clad □ os Bronze □ os Composite □ to Non-metallic □ to Earthen Walls									
□ 12 Unknown □ 19 Other:									

Container Construction

		Lining ☐ 05 Glass Lining ☐ ∞ Clay Lining					
F. □ □ Polyethlene Wrap □ □ □ Vinyl Wrappin	ng □ ∞ Cathodic Protection						
□ o4 Unknown □ o5 None	Oos tar or asphalt	los Other					
VI Piping							
A. Aboveground Piping: On Double-walled pip	De ☐ 02 Concrete-lined trench ☐ 0 ☐ 06 Unknown ☐ X 07 None	os Gravity 🗍 04 Pressure 🗎 05 Suction					
B. Underground Piping: (\$\frac{1}{2}\text{o}_1\text{ Double-walled pip} \text{ [(Check) appropriate box(es)]}	e 🛮 oz Concrete-lined trench 🗀 o	з Gravity ∏о4 Pressure □о5 Suction					
VII Leak Detection	•						
☐ or Visual ☐ or Stock Inventory ☐ or	Tile Drain ☐ 04 Vapor Sniff Wells	☐ ∞ Sensor Instrument					
☐ 66 Ground Water Monitoring Wells ☐ 67 Pressure Test ☐ 68 Internal Inspection ☐ 68 None							
□ to Other	□ to Other						
VIII Chemical Composition of Materials If you checked yes to IV -F you are not requ	s Currently or Previously Store	ed in Underground Containers					
currently previously stored stored CAS # (If known)	Chemical Do Not Use Com	mercial Name (Use additional paper for more room					
01 02							
01 02							
01 02							
Is Container located on an Agricultural Farm?	⊡orYes XIo₂No						
Person Filing (Signature)		w/area code (415) 461-8890					
For Local Agency Use Only	EE & ASSOCIATES	· 					
AGENCY NAME	CIW	COUNTY					
CONTACT PERSON	PHONE	W/AREA CODE					
INSPECTION DATE (1ST INSPECTION) PE	RMIT APPROVAL DATE	PERMIT ID, NUMBER					
FOR STATE USE ONLY							
STATE ID, NUMBER Acco	ounling Number	County Number					
Date Received 01	□ n2	□ 03					