

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



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

May 3, 2007

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

Mr. Roland C. Malone, Jr.  
P.O. Box 2744  
Castro Valley, CA 94546

Subject: Fuel Leak Case No. RO0000486 and Geotracker Global ID T0600101261, Shell#13-5701, 4255 MacArthur Blvd., Oakland, CA 94619

Dear Mr. Brown and Mr. Malone:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site including the recently submitted report entitled, "Groundwater Monitoring Report – First Quarter 2007," dated April 18, 2007. We received a hard copy of this report and an electronic version was submitted to the Geotracker website. However, an electronic copy of the report does not appear to have been submitted to the Alameda County Environmental Cleanup Oversight Program ftp site. Please submit a pdf version of the, "Groundwater Monitoring Report – First Quarter 2007," dated April 18, 2007 to the Alameda County ftp site as described in the instructions for electronic submittal below.

The Groundwater Monitoring Report – First Quarter 2007," dated April 18, 2007 recommends discontinuation of monthly sampling of wells MW-2 and MW-3. Since free phase product has not been observed in these wells during recent sampling events, we concur with sampling wells MW-2 and MW-3 on a quarterly basis instead of monthly.

**TECHNICAL REPORT REQUEST**

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

- **45 days following the end of each quarter - Quarterly Monitoring Reports**

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.

Mr. Denis Brown  
Mr. Roland C. Malone, Jr.  
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#### ELECTRONIC SUBMITTAL OF REPORTS

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

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

Mr. Denis Brown  
Mr. Roland C. Malone, Jr.  
RO0000486  
May 3, 2007  
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**UNDERGROUND STORAGE TANK CLEANUP FUND**

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

**AGENCY OVERSIGHT**

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

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

Sincerely,



Jerry Wickham  
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Ana Friel  
Conestoga-Rovers & Associates  
19449 Riverside Drive, Suite 230  
Sonoma, CA 95476

Donna Drogos, ACEH  
Jerry Wickham, ACEH  
File

ALAMEDA COUNTY  
HEALTH CARE SERVICES

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September 19, 2006

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

Mr. Roland C. Malone, Jr.  
P.O. Box 2744  
Castro Valley, CA 94546

Subject: Fuel Leak Case No. RO0000486, Shell#13-5701, 4255 MacArthur Blvd., Oakland, CA

Dear Mr. Brown and Mr. Malone:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site and the report entitled, "Well Installation Report," dated September 6, 2006. The report was prepared on your behalf by Cambria Environmental Technology, Inc. The "Well Installation Report," presents the results from the installation of four monitoring wells (MW-6 through MW-9) at the site to improve the groundwater monitoring network.

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

**TECHNICAL COMMENTS**

1. **Quarterly Groundwater Monitoring.** The "Well Installation Report," recommends that wells MW-6, MW-7, MW-8, and MW-9 be added to the existing groundwater monitoring program. We concur with adding the newly installed wells to the quarterly groundwater monitoring program. Please present the results in the quarterly monitoring reports requested below.

**TECHNICAL REPORT REQUEST**

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

- **45 days following the end of each quarter - Quarterly Monitoring Reports**

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.

Mr. Denis Brown  
Mr. Roland C. Malone, Jr.  
September 19, 2006  
Page 2

### ELECTRONIC SUBMITTAL OF REPORTS

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### PERJURY STATEMENT

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

### PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

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

### UNDERGROUND STORAGE TANK CLEANUP FUND

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

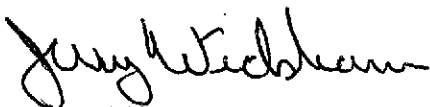
Mr. Denis Brown  
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September 19, 2006  
Page 3

**AGENCY OVERSIGHT**

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

Sincerely,



Jerry Wickham  
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Ana Friel  
Cambria Environmental Technology, Inc.  
270 Perkins Street  
Sonoma, CA 95406

Donna Drogos, ACEH  
Jerry Wickham, ACEH  
File

RO 486

**Wickham, Jerry, Env. Health**

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**To:** Friel, Ana  
**Cc:** denis.l.brown@shell.com; Dalie, Stewart; Cool, Aubrey  
**Subject:** RE: 4255 MacArthur Blvd, Oakland - Request for Extension of Site Investigation Report - due 8/15/06

Ana,  
 Based upon your request, the schedule for submittal of the Site Investigation Report for case RO486 4255 MacArthur Blvd., Oakland, is extended to September 15, 2006.

Regards,  
*Jerry Wickham*  
 Hazardous Materials Specialist  
 Alameda County Environmental Health  
 1131 Harbor Bay Parkway  
 Suite 250  
 Alameda, CA 94502-6577  
 510-567-6791 phone  
 510-337-9335 Fax  
[jerry.wickham@acgov.org](mailto:jerry.wickham@acgov.org)

---

**From:** Friel, Ana [mailto:[afriel@cambria-env.com](mailto:afriel@cambria-env.com)]  
**Sent:** Thursday, July 27, 2006 12:02 PM  
**To:** Wickham, Jerry, Env. Health  
**Cc:** denis.l.brown@shell.com; Dalie, Stewart; Cool, Aubrey  
**Subject:** 4255 MacArthur Blvd, Oakland - Request for Extension of Site Investigation Report - due 8/15/06  
**Importance:** High

Jerry,

The field work for this site occurred the week of June 15, 2006, and analytical results were expected by the end of June. However, owing to internal issues at Shell's contract laboratory (Test America), the laboratory data was not received by Cambria until last week. Thus, Cambria will be unable to meet the report submittal deadline of August 15, 2006.

In order to allow sufficient time to prepare and QC the document and allow for internal reviews by Shell prior to submittal, we are requesting a 30-day **extension to September 15, 2006**.

Your consideration of this request is appreciated. Please contact me if you have any questions or wish to discuss.

Regards,

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

[afriel@cambria-env.com](mailto:afriel@cambria-env.com)  
 p (707) 268-3812

7/27/2006

ALAMEDA COUNTY  
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ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
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April 6, 2006

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

Mr. Roland C. Malone, Jr.  
P.O. Box 2744  
Castro Valley, CA 94546

Subject: Fuel Leak Case [REDACTED] Shell#13-5701, 4255 MacArthur Blvd., Oakland, CA –  
Work Plan Approval

Dear Mr. Brown and Mr. Malone:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the subject site and the document entitled, "Well Installation Work Plan," March 24, 2006, prepared on your behalf by Cambria Environmental Technology, Inc. The Work Plan proposes the installation of three on-site and one off-site monitoring well. We concur with the proposed scope of work and request that you perform the proposed work and send us the reports described below. Please provide 72-hour advance written notification to this office (e-mail preferred to [jerry.wickham@acgov.org](mailto:jerry.wickham@acgov.org)) prior to the start of field activities.

**TECHNICAL REPORT REQUEST**

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

- **May 15, 2006** - Quarterly Monitoring Report for the First Quarter 2006
- **August 15, 2006** – Well Installation Report and Quarterly Monitoring Report for the Second 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.



Mr. Denis Brown  
Mr. Roland Malone  
April 6, 2006  
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### ELECTRONIC SUBMITTAL OF REPORTS

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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](mailto: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 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.

Mr. Denis Brown  
Mr. Roland Malone  
April 6, 2006  
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**UNDERGROUND STORAGE TANK CLEANUP FUND**


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

**AGENCY OVERSIGHT**

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, P.G.  
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

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

Donna Drogos, ACEH  
Jerry Wickham, ACEH  
File

ALAMEDA COUNTY  
HEALTH CARE SERVICES

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1131 Harbor Bay Parkway, Suite 250  
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January 19, 2006

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

Mr. Roland C. Malone, Jr.  
P.O. Box 2744  
Castro Valley, CA 94546

Subject: Fuel Leak Case [REDACTED], Shell#13-5701, 4255 MacArthur Blvd., Oakland, CA

Dear Mr. Brown and Mr. Malone:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the subject site and the report entitled, "Subsurface Investigation Report," dated December 14, 2005, prepared on your behalf by Cambria Environmental Technology, Inc. The report presents the results of soil borings completed in October 2005 to perform soil and depth-discrete groundwater sampling to assess the site stratigraphy and vertical extent of hydrocarbons. Due to unexpected subsurface conditions, not all of the stratigraphic information was collected and no depth-discrete groundwater samples were collected.

The "Subsurface Investigation Report," recommends the installation of three on-site and one off-site groundwater monitoring well. ACEH concurs with this recommendation and requests that you submit a work plan to conduct this work **by March 24, 2006**. ACEH requests that you address the following technical comments and send us the reports described below.

**TECHNICAL COMMENTS**

1. **Cross Sections.** The conclusions of the "Subsurface Investigation Report," dated December 14, 2005, includes a discussion of soil stratigraphy, fuel hydrocarbon impacts at various depths, and possible migration pathways. Please supplement future discussions of this nature with the use of cross sections. A significant amount of detailed stratigraphic information has been collected for this site. We request that you prepare a minimum of one cross section oriented in the downgradient direction. Please prepare additional cross sections as necessary to illustrate site conditions. The cross sections are to include the lateral and vertical extent of soil layers, depths where groundwater was first encountered in borings and the static water levels, observations of free product, staining, or odor, the approximate location of the groundwater table, USTs and dispensers (including the tank pit backfill), and analytical data from soil samples and groundwater samples for each of the borings and wells shown on the cross sections. In addition, please show the total depth and screen intervals for all wells. Please present these cross sections in the Work Plan requested below.

2. **Table of Well Construction Details.** Please include a table that summarizes well construction details in the Work Plan requested below. The table should include the well ID, date installed, top of casing elevation, total depth, borehole diameter, screened interval, slot size, filter pack interval, filter pack material, bentonite seal interval, and grout seal interval.

#### TECHNICAL REPORT REQUEST

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

- **February 15, 2006** - Quarterly Report for the Fourth Quarter 2005
- **March 24, 2006** – Work Plan for Monitoring Well Installation
- **May 15, 2006** - Quarterly 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.

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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](mailto:jerry.wickham@acgov.org).

Mr. Denis Brown  
Mr. Roland Malone  
January 19, 2006  
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#### UNDERGROUND STORAGE TANK CLEANUP FUND

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#### AGENCY OVERSIGHT

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

Sincerely,



Jerry Wickham, P.G.  
Hazardous Materials Specialist

Mr. Denis Brown  
Mr. Roland Malone  
January 19, 2006  
Page 4

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

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

Matthew Derby  
Cambria Environmental Technology, Inc.  
5900 Hollis Street, Suite A  
Emeryville, CA 94608

Donna Drogos, ACEH  
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(510) 567-6700  
FAX (510) 337-9335

August 8, 2005

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

Dear Mr. Brown:

Subject: Fuel Leak Case No. [REDACTED], Shell, 2455 MacArthur Boulevard, Oakland, CA

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the subject site and the work plan entitled, "Subsurface Investigation Work Plan," dated July 27, 2005, prepared on Shell's behalf by Cambria Environmental Technology. We concur with the work proposed. We request that you perform the proposed work and send us the reports described below. Please provide 72-hour advance written notification to this office (e-mail preferred to [jerry.wickham@acgov.org](mailto:jerry.wickham@acgov.org)) prior to the start of field activities.

**TECHNICAL REPORT REQUEST**

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

- **November 1, 2005** - Quarterly Report for the Third Quarter 2005
- **December 19, 2005** - Subsurface Investigation Report
- **February 1, 2006** - Quarterly Report for the Fourth Quarter 2005

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.

**PERJURY STATEMENT**

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**UNDERGROUND STORAGE TANK CLEANUP FUND**

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**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, P.G.  
Hazardous Materials Specialist

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

Matthew Derby  
Cambria Environmental Technology, Inc.  
5900 Hollis Street, Suite A  
Emeryville, CA 94608

Donna Drogos, ACEH  
Jerry Wickham, ACEH  
File



RD 486

**Wickham, Jerry, Env. Health**

---

**From:** Brown, Denis L SOPUS-OP-COR-H [denis.l.brown@shell.com]  
**Sent:** Wednesday, July 20, 2005 11:10 AM  
**To:** Wickham, Jerry, Env. Health; Gibbs, David  
**Subject:** RE: 4255 MacArthur, Oakland

Thanks Jerry - We will get WP to you in timely manner

*Denis*

**Denis L. Brown**  
Project Manager

Shell Oil Products US  
HSE - Environmental Services  
20945 S. Wilmington Ave.  
Carson, CA 90810-1039

Bus. 707-865-0251  
Fax. 707-865-2542  
Cell 707-290-9101  
denis.l.brown@shell.com

-----Original Message-----

**From:** Wickham, Jerry, Env. Health [mailto:jerry.wickham@acgov.org]  
**Sent:** Tuesday, July 19, 2005 1:57 PM  
**To:** Brown, Denis L SOPUS-OP-COR-H; Gibbs, David  
**Subject:** 4255 MacArthur, Oakland

Denis and David,

I have briefly reviewed the report, "Subsurface Investigation Report" for 4255 MacArthur Blvd. in Oakland, and concur with the conclusions that additional investigation will be required. Therefore, please move forward with work plan preparation for the recommended activities prior to receiving technical comments on the Subsurface Investigation Report. Please call me with any questions.

Regards,

*Jerry Wickham*  
Hazardous Materials Specialist  
Alameda County Environmental Health  
1131 Harbor Bay Parkway  
Suite 250  
Alameda, CA 94502-6577  
510-567-6791 phone  
510-337-9335 Fax  
jerry.wickham@acgov.org

7/26/2005

**Wickham, Jerry, Env. Health**

---

**From:** Wickham, Jerry, Env. Health  
**Sent:** Tuesday, July 19, 2005 1:57 PM  
**To:** 'Brown, Denis L SOPUS-OP-COR-H'; Gibbs, David  
**Subject:** 4255 MacArthur, Oakland

Denis and David,

I have briefly reviewed the report, "Subsurface Investigation Report" for 4255 MacArthur Blvd. in Oakland, and concur with the conclusions that additional investigation will be required. Therefore, please move forward with work plan preparation for the recommended activities prior to receiving technical comments on the Subsurface Investigation Report. Please call me with any questions.

Regards,

*Jerry Wickham*

Hazardous Materials Specialist  
Alameda County Environmental Health  
1131 Harbor Bay Parkway  
Suite 250  
Alameda, CA 94502-6577  
510-567-6791 phone  
510-337-9335 Fax  
[jerry.wickham@acgov.org](mailto:jerry.wickham@acgov.org)

7/19/2005

**Garcia-La Grille, Roseanna, Env. Health**

---

**From:** Derby, Matt [mderby@cambria-env.com]  
**Sent:** Tuesday, April 05, 2005 5:35 PM  
**To:** Garcia-La Grille, Roseanna, Env. Health  
**Cc:** 'Brown, Denis L SOPUS-OP-COR-H'; 'Gibbs, David'  
**Subject:** 4255 Macarthur Blvd, Oakland - Former Shell Station - Work Notification for subsurface investigation

*Dear Ms. Garcia-LaGrille:*

*This message is to notify you that Cambria is conducting field work originally proposed in Cambria's May 17, 2004 work plan. Field investigation is being done today, April 5 and tomorrow April 6, 2005.*

*Because Shell has not received a response to the work plan, and had notified Alameda County Health Care Services Agency in the February 18, 2005 quarterly monitoring report of Shell's intent to proceed with the work, Shell requested that Cambria proceed with the work.*

*Per Karen Petryna and Karen Lyons meeting on November 4, 2004 with Donna Drogos of your agency, Shell agreed to provide notification by email of the field investigation work. I regret that Cambria did not notify you in advance of this work, as the work schedule has changed repeatedly due to difficulties in obtaining off-site access with new property owners, and we overlooked this.*

*Please contact David Gibbs of Cambria at 510.420.3363 if you need any information regarding this work.*

*(I have sent you this message as Don Hwang was the last assigned caseworker but is no longer the caseworker).*

*Matthew W. Derby, P.E.  
Sr. Project Engineer  
Cambria Environmental Technology  
5900 Hollis St, Suite A  
Emeryville, CA 94608  
510.420.3332 tel  
510.420.9170 fax  
mderby@cambria-env.com*

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



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

December 16, 2002

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

Dear Ms. Petryna:

Subject: Fuel Leak Case **RO0000486**, UST Closure Sampling Plan, 4255 MacArthur Blvd.,  
Oakland, CA 94619

Our office has received and reviewed the December 9, 2002 Underground Storage Tank Closure Sampling Plan for the referenced site prepared by Cambria Environmental, your consultant. As you are aware, the City of Oakland Fire Department is responsible for overseeing the removal of the underground tank system and the required regulatory sampling. Our office is overseeing the soil and groundwater investigation under the Local Oversight Program (LOP). Our office would be interested in observing and commenting on any additional excavation and sampling of areas of obvious contamination, groundwater removal and remediation. To that end, please inform our office prior to performing work outside that of done at "typical" tank removals.

One technical comment: Please ensure that your analysis of ether oxygenates includes the entire suite of oxygenates plus ethanol and the lead scavengers.

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

Sincerely,

Barney M. Chan  
Hazardous Materials Specialist

✓ C: B. Chan, files

Ms. M. Munz, Cambria, 1144 65<sup>th</sup> St., Suite B, Oakland, CA 94608  
Mr. L. Griffin, City of Oakland Fire Dept.

USTremsampling4255MacArthurBlvd

C A M B R I A

August 14, 2001

Barney Chan  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

#  
3769

Re: **Agency Response**  
Shell-branded Service Station  
4255 MacArthur Boulevard  
Oakland, California  
Incident #98995758  
Cambria Project #243-0524-002

AUG 17 2001

Dear Mr. Chan:

On behalf of Equiva Services LLC, Cambria Environmental Technology, Inc. (Cambria) is responding to the Alameda County Health Care Services Agency (ACHCSA) letter dated July 16, 2001. Cambria's comments on your observations are given below.

1) *The extent of the methyl tert butyl ether (MTBE) plume has not yet been defined. This may be clarified once the offsite, downgradient well is installed and monitored.*

Cambria agrees that results from the proposed well will clarify the MTBE plume definition. We anticipate Caltrans permit approval in the near future and have tentatively scheduled installation of the downgradient well on September 27, 2001.

2) *MTBE results for MW-2 need further evaluation since results by EPA Method 8020 and 8260 differ by one order of magnitude.*

All samples are now being analyzed using EPA Method 8260. Cambria agrees that the results from future monitoring will further clarify the results in MW-2.

3) *Comment on the validity of sampling wells in which oxygen releasing compounds (ORCs) are installed (MW-1 through MW-3) after purging three well volumes.*

The purpose of purging monitoring wells prior to sampling is to ensure that water sampled is representative of the formation water. The Environmental Protection Agency's *Technical Enforcement Guidance* document indicates that the well should be evacuated three times, or at least once if slow to recharge. In addition to purging three casing volumes, Blaine Tech Services, Inc. measures indicator parameters (pH, temperature and conductivity) to confirm that the well conditions have stabilized, indicating that the sample will be representative of the formation. The ACHCSA is apparently concerned that the water represented by the groundwater samples is oxygenated due to the ORCs in the wells. This is to be expected. It should be noted that these wells are near the perimeter of the plume and the measured concentrations reflect actual

conditions at those locations. Cambria believes that the sampling method is appropriate to provide representative samples of the groundwater in the vicinity of the monitoring wells.

- 4) *Sampling and analysis of groundwater from the tank backfill wells TB-1 and TB-2 may help to determine if the tanks represent an ongoing source of contamination.*

Sampling and analysis of tank backfill well TB-2 is included in the current quarterly monitoring schedule. As requested, TB-1 will be added to the schedule in the fourth quarter of 2001.

- 5) *A Unocal station located upgradient of the site has experienced a significant MTBE release and may represent an offsite source of contamination. It may be prudent to install an additional monitoring well immediately downgradient of the Unocal site since past investigations upgradient of the Shell-branded site did not analyze for MTBE in soil or groundwater.*


Cambria will review ACHCSA files to assess whether an additional upgradient monitoring well is warranted.

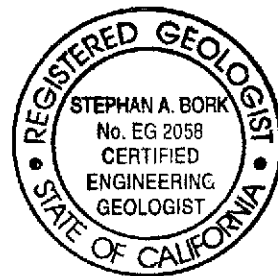
**CLOSING**

We appreciate the opportunity to work with you on this project. Please call Melody Munz at (510) 420-3324 if you have any questions or comments.

Sincerely,  
**Cambria Environmental Technology, Inc**

  
Melody Munz  
Project Engineer

  
Stephan A. Bork, C.E.G., C.HG.  
Associate Hydrogeologist



Oakland, CA  
San Ramon, CA  
Sonoma, CA

**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 91510-7869  
Russell J. Bruzzone, Inc., 899 Hope Lane, Lafayette, CA 94549

RO# 86 / 3769

# C A M B R I A

July 25, 2001

Barney Chan  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

JUL 27 2001

**Re: Certified List of Record Fee Title Holders for:**  
Shell-branded Service Station  
4255 MacArthur Boulevard  
Oakland, California  
Incident #98995758



Dear Mr. Chan:

This correspondence identifies the current landowner of the referenced property and is being made on behalf of Equiva Services LLC 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 Equiva'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.

Roland C. Malone, Jr., PO Box 2744, Castro Valley, CA 94546

Sincerely,

Stephan A. Bork, C.E.G., C.HG.  
Associate Hydrogeologist

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91510-7869  
Roland C. Malone, Jr., PO Box 2744, Castro Valley, CA 94546

Oakland, CA  
San Ramon, CA  
Sonoma, CA

**Cambria  
Environmental  
Technology, Inc.**

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

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



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

July 16, 2001  
StID#3769/ RO0000486

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

**Re: First Quarter 2001 Monitoring Report, Sensitive Receptor Survey and Site Conceptual Model, 4255 MacArthur Blvd., Oakland CA 94619**

Dear Ms. Petryna:

Our office has received and reviewed the report for the above referenced Shell-branded service station prepared by Cambria, your consultant. I would like to comment on the following observations noted in this report:

- Groundwater TPH concentrations are consistent with past results, however, the extent of the MTBE plume has not yet been defined. This may be clarified once the off-site, down-gradient well is installed and monitored. The 1/15/2001 MTBE results for MW-2 needs further evaluation since the results by EPA Method 8020 (44,400 ppb) and that by EPA Method 8260 (5,080 ppb) differ by one order of magnitude. This is unusual particularly since the other contaminants, TPHg and BTEX, are comparable to last quarter's and last quarter's MTBE concentrations were 61,200 and 66,600 ppb by EPA 8020 and 8260, respectively.
- Oxygen Releasing Compound (ORC) socks have been placed in wells MW-1 through MW-3. It was noted that three well volumes were purged prior to sampling. Please comment on the validity of sampling these wells in this manner and how representative these results are.
- Dual Phase Extraction was performed on wells MW-2 and TB-2. Significant TPH and MTBE mass was removed, however, it is not possible to estimate the effectiveness of this remediation. Future remediation will include groundwater extraction from MW-3 and TB-1. Please include the sampling and analysis of groundwater from the tank back-fill wells, TB-1 and TB-2. This can help determine if the tanks represent an on-going source of contamination. Monthly DPE is scheduled.
- A receptor and utility survey was performed. No down-gradient domestic wells were identified. Those utilities which may be at depths, which could intercept seasonal groundwater are located up-gradient to the site and therefore, are not likely being impacted. It is noted, however, that an active Unocal station exists up-gradient to this site. The Unocal station has also experience a significant MTBE release, however, as mentioned in this report, the utilities may be acting as a partial barrier to its migration towards the Shell site. It may be prudent to install an additional monitoring well immediately down-gradient of the Unocal site to determine if an off-site source exists. Past investigations in this area did not analyze for MTBE in soil or groundwater.

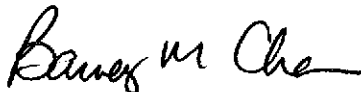


Ms. Karen Petryna  
StID#3769/ RO0000486  
4255 MacArthur Blvd., Oakland 94619  
July 16, 2001  
Page 2

Please comment on these observations **within 30 days or no later than August 20, 2001.**

You may contact me at (510) 567-6765.

Sincerely,



Barney M. Chan  
Hazardous Materials Specialist

✓ C: B. Chan, files

Ms. M. Munz, Cambria, 1144 65<sup>th</sup> St., Suite B, Oakland, CA 94608

Comment4255MacArthur

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



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

June 29, 2001  
StID # 3769/ RO0000486

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

**Re: Shell Branded Service Station, 4255 Mac Arthur Blvd., Oakland CA 94619**

Dear Ms. Petryna:

Our office has received and reviewed the June 26, 2001 Second Quarter 2001 Monitoring Report for the above referenced site. As you are aware, this site has had an on-going problem with elevated TPHg and MTBE in groundwater. These contaminants have migrated off-site beneath and beyond the adjacent trailer park and likely towards Interstate 580. An off-site well is waiting Cal-Trans right-of-way permission before drilling can proceed. In the meanwhile, remediation at the site consists of monthly dual-phase and groundwater extraction from monitoring and tank backfill wells, respectively. The results of this remediation has not resulted in significant reduction of dissolved hydrocarbon and MTBE concentration as evidenced in MW-2 monitoring results. Perhaps this is a result of an on-going release or just normal for this type of remediation since TPH and MTBE mass is being removed.

Please consider more frequent than monthly treatment of the wells. This is recommended since it was noticed that the concentration in tank backfill well TB-2 is elevated and the vacuum truck was reported filled in only 45 minutes when extracting groundwater from this well.

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

Sincerely,

A handwritten signature in black ink that reads "Barney M. Chan".

Barney M. Chan  
Hazardous Materials Specialist

C: B. Chan, files

Mr. S. Bork, Cambria Environmental, 1144 65<sup>th</sup> St., Suite B, Oakland CA 94608

gwext4255MacArthur

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



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

December 7, 2000  
StID # 3769

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

**Re: Shell Branded Station, 4255 MacArthur Blvd., Oakland CA 94612**

Dear Ms. Petryna:

This letter provides comments on your November 16, 2000 Third Quarter 2000 Monitoring Report for the above referenced service station as prepared by Cambria Environmental Technology, Inc. (Cambria). It further clarifies the County's opinion and requests regarding the on-going environmental investigation.

I would also like to revisit some of the points in my prior August 22, 2000 letter. Please let me know if you'd like another copy of this letter. These items include the following:

- Your Second Quarter 2000 monitoring report dated September 1, 2000 stated that Cambria would re-initiate monthly extraction from wells MW-2, TB-1 and TB-2. It appears that this was not done since the third quarter 2000 report states they will re-initiate active remediation on November 16, 2000 and it does not indicate any hydrocarbons were removed during the quarter.
- My August 22<sup>nd</sup> letter noted that dissolved oxygen was low in the wells with ORC socks (MW-1, MW-3, MW-4 and TB-1). The Second Quarter report stated that ORC replacement would be performed by September 2000 and replaced every six months thereafter. The Equiva Well Monitoring Data Sheets for MW-4 indicate a pre-purge D.O. reading of 1.4 mg/l. Why is the D.O. still low and where are the other data sheets for wells MW-1 and MW-3? In addition, the TPHg/BTEX/MTBE analytical report sheets from Sequoia Analytical are missing for MW-1, MW-2 and MW-3 in the monitoring report.
- My August 22<sup>nd</sup> letter requested timelier submission of monitoring reports. Cambria stated the third quarter 2000 report would be submitted by September 30, 2000. Our office received the November 16, 2000 Third Quarter 2000 on November 20, 2000.
- The Second Quarter 2000 report stated that Cambria was evaluating alternative locations for a previously proposed monitoring well, ie the down-gradient well on Cal Trans property. The Third Quarter 2000 report states that an additional well is not warranted at this time. The rationale is that prior data already exists in the area of a well, which would be relocated on closer trailer park location. Cambria also states that benzene and MTBE attenuation is being observed in wells MW-2 and MW-4. I assume that Cambria still believes the up-gradient well that they previously proposed is still warranted. A down-gradient well is necessary to determine the limit of the TPH and MTBE plume. The grab groundwater data, which previously exists does not do this, nor does it adequately estimate the down-gradient extent of groundwater contamination. Our office recommended moving the down-gradient well to *the* trailer park area to reduce the current delay experienced due to Cal Trans. Be advised, this

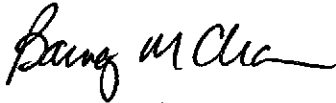
Ms. K. Petryna  
StID # 3769  
4255 MacArthur Blvd., Oakland 94619  
December 7, 2000  
Page 2.

- data is necessary regardless of the existence of a receptor. Upon review of data, it appears that MW-4 is not immediately down-gradient of MW-2, therefore it is not reasonable to compare the contaminant concentrations in these wells to show natural attenuation. In fact, looking at the concentration of MTBE in these wells independently, you see they are actually not attenuating.

As you may be aware, the SWRCB issued their final draft of Guidelines for Investigation and Cleanup of MTBE and Other Ether-Based Oxygenates (3/27/00). They recommend interim remedial action for sites with free product or persistent concentrations of MTBE over 10,000 ppb such as this. Therefore, we recommend dual-phase extraction from TB-1 and MW-3 in addition to MW-2 and TB-2. To reduce the potential of spreading contamination from the source, please treat MW-3 last, after the other well concentrations have been reduced. Please also analyze samples from the tank back-fill wells to estimate TPH removal amounts. **Our office concurs with Cambria's recommendation of performing a site conceptual model (SCM) including a well survey and conduit study in addition to the additional well investigation not in lieu.**

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

Sincerely,



Barney M. Chan  
Hazardous Materials Specialist

C: B. Chan, files  
Mr. T. Buggle, Cambria Environmental Technology, Inc., 1144 65<sup>th</sup> Ave., Suite B,  
Oakland CA 94608

2-4255MacArthur

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



August 22, 2000  
StID # 3769

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

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

**Re: Shell Branded Station, 4255 MacArthur Blvd., Oakland CA 94619**

Dear Ms. Petryna:

Our office has received and reviewed the August 16, 2000 **First Quarter 2000 Monitoring Report** for the above referenced site as prepared by Cambria Environmental Technology (Cambria), your consultant. I have the following observations and comments:

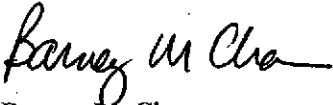
- This site continues to display a significant MTBE release, which has impacted groundwater. Monitoring well MW-4, the most down-gradient well exhibited a substantial increase in MTBE going from 539 to 12,000 ppb, the highest ever reported concentration in this well.
- On February 28, 2000 approximately 4,700 gallons of groundwater was extracted from MW-2 and tank backfill well TB-2. Although groundwater extraction has been going on since April 1999, there hasn't been a noticeable decrease in concentration in MW-2. Can you extract from additional wells such as MW-3, MW-4 and tank backfill well TB-1? Please indicate your future schedule planned for groundwater extraction.
- It was noted that the figures in Table 2, **Petroleum Hydrocarbon Mass Removal** may be incorrect owing to the incorrect conversion factor used, 1g/1e9 ug instead of 1g/1e6 ug. Therefore, the pounds of mass are off by a factor of 0.001. As you are aware, expressing the amount of MTBE removed in pounds minimizes the impact of such the release. One pound of MTBE is enough to contaminate 10,000,000 gallons of water at the MCL.
- It was noticed that although ORC socks have been added to MW-1, MW-3, MW-4 and TB-1, the dissolved oxygen level in the impacted wells are low, 1-4 ppm, while the non-impacted well was reported as high as 16.9 ppm. Please determine if and when the socks need replacement.
- There continues to be a significant delay from the time the wells are sampled to the time our office receives the monitoring report. For instance, the January 2000 sampling event was finally submitted in August of 2000. This delay can, at times, prevent our office from being aware of a potential problem and at the least prevents our office from making any timely constructive observations regarding the site. What can be done to prevent such a delay from sampling date to submittal date? Your quarterly monitoring report should be submitted prior to the next quarterly sampling event ie minimum of every 3 months.
- Our office concurs with Cambria's recommendation to evaluate an alternative location for the off-site down-gradient well. Delays have occurred in obtaining access to the Cal Trans property near the interstate 580 freeway, therefore, you should consider relocating the proposed well on the trailer park. Please initiate negotiation to gain access for this alternative well location.

Ms. Karen Petryna  
4255 MacArthur Blvd., Oakland CA 94619  
August 22, 2000  
StID # 3769  
Page 2.

**Please respond in writing to the above items within 30 days or no later than September 25, 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. T. Buggle, Cambria Environmental, 1144 65<sup>th</sup> St., Suite B, Oakland CA 94608

4255 MacArthur

C A M B R I A

R0486

D4

November 23, 1999

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

**Re: Certified List of Record Fee Title Owners for:**

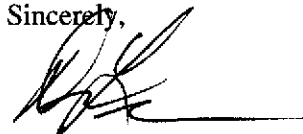
Shell-branded Service Station  
4255 MacArthur Blvd.  
Oakland, CA  
Incident No. 98995758

Dear Ms. Shin: *Barney 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.

Roland C. Malone, Jr., PO Box 2099, Houston, TX 77252

Sincerely,



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

cc: Karen Petryna, Equiva Services LLC, P.O. Box 6249, Carson, California, 90749-6249  
Roland C. Malone, Jr., PO Box 2099, Houston, TX 77252

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

99 NOV 29 PM 4:46  
ENVIRONMENTAL PROTECTION

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES

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

June 17, 1999  
StID # 3769

Ms. Karen Petryna  
Equiva Services LLC  
P.O. Box 6249  
Carson, CA 90749-6249

**Re: Shell-branded Service Station, 4255 Mac Arthur Blvd., Oakland CA 94611**

Dear Ms. Petryna:

Our office has received and reviewed the **First Quarter 1999 Monitoring Report** for the above site as prepared by Cambria. These results continue to show the presence of free product in MW-2, elevated gasoline, benzene and MTBE in groundwater and an undefined plume of these constituents. Our office awaits the implementation of the previously approved, March 22, 1999, Work Plan Addendum as stated in this report. As you may recall, the work plan calls for:

- the removal of groundwater from MW-2 and the two tank backfill wells,
- the analysis of all wells for MTBE using EPA Method 8260,
- the analysis of specific bio-degradation parameters, the installation of ORC socks in wells MW-1, MW-~~2~~<sup>3</sup> MW-4 and the backfill wells and,
- the installation of two monitoring wells.

Please estimate the amount of petroleum removed from the wells by analyzing the extracted dissolved product and estimating the amount of free product removed. Your report should also make a recommendation as to whether additional or routine groundwater removal would be beneficial. Please contact our office prior to your field work.

I may be reached at (510) 567-6765.

Sincerely,

Barney M. Chan  
Hazardous Materials Specialist

C: B. Chan, files

Mr. B. Busch, Cambria Environmental, 1144 65<sup>th</sup> St., Suite B, Oakland CA 94608  
4255MacArthur



ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



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

March 30, 1999  
StID # 3769

Ms. Karen Petryna  
Equiva Services LLC  
P.O. Box 6249  
Carson, CA 90749

**Re: Work Plan Addendum for Shell-branded Service Station, 4255 MacArthur Blvd.,  
Oakland CA 94619**

Dear Ms. Petryna:

Our office has received and reviewed the March 22, 1999 Work Plan Addendum as prepared by your consultant, Cambria Environmental Technology, Inc. (Cambria). Their letter further clarifies items brought out in my February 19, 1999 letter which, in turn, commented on the June 29, 1998 Cambria work plan. At this time, it is hoped that all comments from our office have been resolved so remediation and additional investigation can be initiated.

Cambria <sup>replied</sup> reply to the items in my February 19, 1999 letter by proposing the following:

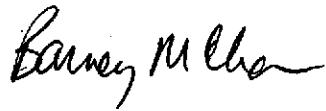
- The bio-attenuation parameters; dissolved oxygen, total alkalinity, ferrous iron, nitrate, sulfate and oxidation reduction potential will be run on an annual basis during the third quarter of the year. Please run dissolved oxygen and oxidation reduction potential on a **quarterly basis**. This will be an immediate check on the success of the addition of the ORC socks. An interpretation of these results should be included in your monitoring report.
- The presence of MTBE will be confirmed using EPA Method 8260 in all wells during the second quarter 1999 monitoring event and then subsequently only on the highest MTBE sample detected by EPA Method 8020.
- ORC socks are proposed to be placed in wells MW-1, MW-3, MW-4 and the UST backfill wells.
- Groundwater extraction will be performed on MW-2 and the two tank backfill wells on a monthly basis for three months and then the results will be evaluated to determine if this is an effective approach.
- The two previously proposed monitoring wells will be installed as soon as the permits are received.

If and when groundwater extraction is complete from the wells, you should determine if enough ORC is being added to the tank pit based upon the residual soil contamination assumed in the tank pit soils. You may want to contact Regenesys for their input in estimating the amount of ORC required for the tank pit.

Ms. Karen Petryna  
StID # 3769  
4255 MacArthur Blvd., Oakland CA 94619  
March 30, 1999  
Page 2.

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. B. Busch, Cambria Environmental, 1144 65<sup>th</sup> St., Suite B, Oakland CA 94608

2wpap4255

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES

ENVIRONMENTAL PROTECTION (LOP)

1131 Harbor Bay Parkway, Suite 250

Alameda, CA 94502-6577

(510) 567-6700

FAX (510) 337-9335

February 19, 1999  
StID # 3769

Ms. Karen Petryna  
Equiva Services LLC  
P.O. Box 6249  
Carson, CA 90749

**Re: Work Plan for Shell-branded Service Station, 4255 MacArthur Blvd., Oakland CA  
94619**

Dear Ms. Petryna:

This letter serves to formally respond to the June 29, 1998 Cambria **Additional Investigation Work Plan** for the above site. Our office had been in correspondence with Mr. Alex Perez of Shell. My May 7, 1998 letter expressed my concerns over potential elevated residual concentrations of gasoline, benzene and MTBE in soil and groundwater. It appeared that the site would fail a Tier 1 ASTM Risk Assessment. The historic presence of free product in monitoring wells MW-2 and MW-3 was also a concern. These conditions may be the result of the limited success of over-excavation of petroleum contamination at the time of the original underground tank removals.

In response to the County's May 7, 1998 letter, Cambria provided the June 29, 1998 work plan. This work plan proposed the installation of two additional monitoring wells, one near the northern pump island and one further down-gradient in the Caltrans right-of-way. I spoke with Mr. Brian Busch of Cambria regarding my concerns for additional requirements on July 7, 1998 and he was to have spoken with Mr. Perez. Apparently, this never happened. At this time, our office formally approves the installation of the two additional monitoring wells and requests the following requirements:

- Please run the following bio-attenuation parameters on your future monitoring events; dissolved oxygen, oxygen-reduction potential, nitrate, sulfate, ferrous iron and alkalinity.
- Because natural attenuation was recommended for this site, please have your consultant estimate the amount of oxygen (therefore, the amount of ORC) needed to treat the petroleum contaminant plume. A recommendation for the addition of oxygen either through ORC injection and/or the addition of ORC "socks" should be made.
- EPA Method 8260 should be run to confirm the highest MTBE values reported in groundwater.
- Because an apparent petroleum source is the existing tank pit, consideration will be given to either extracting groundwater or treating this area.

Please add the above items to the original work plan and provide a schedule for the implementation of the work plan within 30 days or by **March 22, 1999**.

Ms. Karen Petryna  
StID # 3769  
4255 MacArthur Blvd., Oakland CA 94619  
February 19, 1999  
Page 2.

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. B. Busch, Cambria Environmental, 1144 65<sup>th</sup> St., Suite B, Oakland CA 94608  
Wpap4255

**To:** Barney Chan  
**Organization:** Alameda County Dept. of  
Environmental Health  
**Fax #:** (510) 337-9335  
**Re:** Shell Service Station  
4255 MacArthur Blvd.,  
Oakland, CA  
**Date:** June 4, 1998  
**Pages:** One

# FACSIMILE

Dear Barney:

This facsimile is to confirm our meeting date of June 11, 1998 at 2:00 PM. We will be meeting to discuss future activities at the above-referenced site. As we discussed during our May 21, 1998 telephone conversation, you agreed to extend the June 8, 1998 response deadline set forth in your May 7, 1998 letter until after we meet to discuss future site activities. I will contact you before the end of this week by telephone to confirm the meeting date and time. Please call me if you have any questions.



**Brian Busch**  
Cambria Environmental Technology

From the desk of...

**Brian Busch**  
Environmental Scientist  
Cambria Environmental  
1144 65th Street, Suite B  
Oakland, CA 94608

(510)420-3312  
Fax: (510)420-9170

Page: X 36717

6/11/98

4255 MacArthur. w/ A. Perez, D. Lundquist & B. Busch Cambridge  
- decide to perform a Tier 2 RBA

Pete Mc Carveghan

- want a wp for site delineation w/in 2 wks  
(June 29.), then perform a Tier 2, if  
RBA exceeds clean-up level, ~~per~~ have a plan for  
ORC installation (beyond mws)

7915 E 14<sup>th</sup> St. : RA

Change to default parameters

Use average area

check zoning

look @ residential based on mws-2

site with based on ~~RA~~ G value

alternative: take another boring for

meat .TPH & 16 levels

the soil-vapor sample

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES

ENVIRONMENTAL PROTECTION (LOP)

1131 Harbor Bay Parkway, Suite 250

Alameda, CA 94502-6577

(510) 567-6700

FAX (510) 337-9335

May 7, 1998

StID # 3769

Mr. Alex Perez

Shell Oil Products Co.

P.O. Box 4023

Concord, CA 94524

~~(425) 313-5000~~  
(925) 335-5000

**Re: Remedial Action Plan for Shell Service Station, 4255 MacArthur Blvd., Oakland CA 94619**

Dear Mr. Perez:

Our office has recently received and reviewed the following reports for the above site:

- Cambria Soil Vapor Extraction Test Report, February 23, 1998
- Cambria First Quarter 1998 Monitoring Report, April 13, 1998 and
- Cambria Remedial Action Plan, April 15, 1998.

Upon review of these reports, our office has the following comments, observations and requirements:

- The December 1985 UST replacement report states that approximately 810 cubic yards of soil was disposed, however, up to 22,000 ppm TVH and 500 ppm benzene were detected in soil samples. Because no confirmatory excavation samples were taken, residual contamination up to these levels may still exist within the tank pit.
- Up to 1700 ppm TPHg and 3.3 ppm benzene was detected in soil borings from MW-3 indicating the extent of potential soil contamination.
- The November 1995 dispenser and piping removal report detected shallow soil contamination up to 7300 ppm TPHg. The report further states that no benzene above 1 ppm was detected in any of the 15 soil samples, however, the detection limit for benzene in soil samples, S-1, S-2, S-3 and S-8 was <5, 15, 12 and 5 ppm, respectively. This means up to 15 ppm could have been in soil sample S-2. It is unclear whether any overexcavation occurred, so our office assumes these represent conservative residual concentrations. Note that soil boring BH-E @5' bgs, near S-1, S-2 and S-8, exhibited 5900 ppm TPHg and 23 ppm benzene. It is, therefore, reasonable that these soil samples **did** in fact contain benzene, just at levels below the extremely high detection limits.

These facts indicate that residual soil contamination may lie within the underground tank pit and beneath the dispensers with elevated benzene concentration.

Mr. Alex Perez  
4255 MacArthur Blvd.  
StID # 3769  
May 7, 1998  
Page 2.

The Remedial Action Plan (RAP) states that the hydrocarbon plume is apparently stable as demonstrated by the historical groundwater concentration of benzene in MW-4, however, MW-4 does not represent all downgradient groundwater from this site. In addition, though TPH concentrations may be stabilizing off-site, the same cannot be said about the MTBE concentration. Perhaps indicative of a MTBE plume which has detached from the TPH plume, MTBE is actually increasing in the downgradient well. The grab groundwater sample from SB-2, the most directly downgradient boring from the USTs, detected 46,000 ppb MTBE. Although our office does not yet have a formal policy for MTBE, we're confident it must be defined to much lower concentrations than at this site. Its presence should also be confirmed by analyzing for MTBE via EPA Method 8260. Our office anticipates receiving RWQCB recommendation for oxygenate monitoring soon.

The **Risk to Human Health** section of the RAP identifies hydrocarbon volatilization from groundwater to outdoor air as the only potential exposure pathway. This is based upon impacted soil and groundwater being below 10'. However, it is clear that shallow soil contamination exists in at least the area beneath the dispensers. Residual soil contamination exists within the tank pit, which is typically filled with permeable fill allowing for preferential vapor migration. Groundwater elevation is variable at the site with depth to water varying from 7-14' bgs in the latest monitoring event.

The potential exposure pathways cannot be limited to the existing site usage. It is reasonable to consider future scenarios with buildings being located above contaminated soil or groundwater. In fact, employees working in the kiosk at the site, are near the dispensers where shallow soil contamination was identified. Both soil and groundwater volatilization to indoor air must also be evaluated in your Tier 1 RBCA. Cambria is correct when it states that health-based risk assessments are not usually done on sites with free product. The site must also be adequately characterized.

Upon evaluation of various remedial approaches, Cambria recommends:

- Manual bailing of wells for free product recovery,
- Installation of ORC compounds in all wells except MW-2. ORC would be added to MW-2 when free product is gone, and
- Dissolved oxygen would be added to the quarterly monitoring program to verify the result of ORC addition.



Page 2

Mr. Alex Perez  
4255 MacArthur Blvd.  
StID # 3769  
May 7, 1998  
Page 3.

The 4/98 results looks like a fresh release (high MTBE)  
& FP in MW-2 still.

Our office would like to see a more aggressive approach for site remediation. Please address the following:

Need  
addnl wells  
(w/ due)

- How will the extent of MTBE contamination be verified and what if any remediation is recommended for its elevated concentrations? Are additional monitoring well(s) needed for site characterization?
- Since the tank pit appears to be acting as a source of dissolved and free product, what will be done to remove or remediate this contamination? Can groundwater be extracted from the tank pit? Can oxygen or other supplements be added to the tank pit?
- There is a need to determine background levels of analytes indicative of biodegradation. You should analyze each well for the following parameters: dissolved oxygen, oxygen-reduction potential (ORP), nitrate, sulfate, ferrous iron and alkalinity. Based upon these results, you may need to add other supplements in addition to ORC.

need to  
analyze for  
these parameters

Please verify that the addition of ORC only in the existing monitoring wells will provide enough dissolved oxygen to impact the **entire** site. Note that an array of ORC probes is often necessary to treat a large plume. A software program, available from the ORC supplier, exists which generates a recommended array of ORC probes to adequately affect a given site.

need to  
note.

- Please contact Ms. Madhulla Logan to discuss the specific details of an appropriate human health risk assessment. You may need to incorporate a risk evaluation of MTBE in your RBCA.

Please respond to the above items **within 30 days or by June 8, 1998.**

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

Sincerely,

*Barney M. Chan*

Barney M. Chan  
Hazardous Materials Specialist

C: B. Chan, files  
Mr. K. Rahman, Cambria Environmental, 1144 65<sup>th</sup> St., Ste. B,  
Oakland CA 94608

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



February 18, 1998  
StID # 3769

Mr. Alex Perez  
Shell Oil Products Co.  
P.O. Box 4023  
Concord, CA 94524

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 Site Investigation at Shell Service Station,  
4255 MacArthur Blvd., Oakland CA 94619**

Dear Mr. Perez:

Our office has received and reviewed the January 27, 1998 Fourth Quarter 1997 Monitoring Report for the above referenced site. We also acknowledge that Shell proposes to implement their work plan for the advancement of two offsite geoprobe borings during the first quarter of 1998. You are reminded to analyze at least one of the borings within the vadose zone for the following: permeability, moisture content, total porosity and organic carbon content for future use in your risk assessment.

Based upon the existing site conditions, our office has the following additional questions/requests:

\* Please analyze for MTBE using both EPA modified 8020 and 8260 as recommended by the SFRWQCB. Noticeable differences in MTBE concentration have been observed in these two methods.

\* Our office was informed that a Soil-Vapor Extraction Pilot test was scheduled for the site in September 1997, please provide a copy of the results of this test.

\* Based upon the results of the SVE pilot test, please provide a work plan for site remediation. It is clear that the presence of free product and an undefined groundwater plume would require some type of remediation.

Please provide a work plan and the requested technical report **within 30 days or by March 19, 1998**. 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. K. Rahman, Cambria Environmental, 1144 65th St., Ste.  
B, Oakland CA 94608 wp4255

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



December 5, 1997  
StID # 3769

Mr. Alex Perez  
Shell Oil Products Co.  
P.O. Box 4023  
Concord, CA 94524

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 Site Investigation at Shell Service Station,  
4255 MacArthur Blvd., Oakland CA 94619**

Dear Mr. Perez:

As a result of Environmental Health's reorganization I have assumed the oversight of your subsurface investigation at the above referenced site. I have reviewed the case file up to the **September 25, 1997 Third Quarter 1997 Monitoring Report** from Cambria. I am aware of Ms. Juliet Shin's previous requests for this site. Upon review, it appears that you may not have received a written approval for the advancement of the two Geoprobe borings within the trailer park adjacent to this site.

Therefore, this letter serves to approve the advancement of the two temporary borings in the locations indicated on Figure 1 of Cambria's July 22, 1997 work plan. As stated in the work plan, both soil and grab groundwater samples will be taken from each boring to be analyzed for TPHg, BTEX and MTBE. As you screen the soil samples from each boring, please analyze all samples which exhibit elevated field screening results. You may use professional discretion and analyze one soil sample should no sample exhibit any volatile vapor. Please insure that the soil sample(s) taken for permeability, moisture content, total porosity and organic carbon content be taken from native soils within the vadose zone. You should proceed with this field work as soon as possible.

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. Scott MacLeod, Cambria Environmental, 1144 65th St., Ste.  
B, Oakland CA 94608

wpap4255

**FACSIMILE**

**To:** Juliet Shin  
**Organization:** Alameda County Dept. of Environmental Health  
**Fax #:** (510) 337-9335  
**Re:** Soil Vapor Extraction Pilot Test at 4255 MacArthur Blvd., Oakland, CA  
**Date:** September 23, 1997  
**Pages:** One

**Juliet:**

**This facsimile is to notify you of the upcoming Soil Vapor Extraction Pilot Test at the Shell service station at 4255 MacArthur Blvd. in Oakland. We will be conducting the test on Thursday September 25, 1997, beginning at approximately 8:30 AM. Please call me if you have any questions.**

**Brian Busch**

STUD 3769

From the desk of...

**Brian Busch**  
Environmental Scientist  
Cambria Environmental  
1144 55th Street, Suite B  
Oakland, CA 94608

(510)420-3312  
Fax: (510)420-9170

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



June 25, 1997

Mr. Alex Perez  
Shell Oil Products Co.  
P.O. Box 4023  
Concord, CA 94524

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

STID 3769

Re: Work plan for investigations at Shell Service Station WIC #204-5510-0600, located at 4255 MacArthur Blvd., Oakland, CA

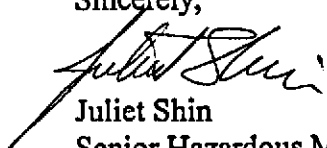
Dear Mr. Perez,

This office has reviewed CAMBRIA's Workplan Addendum, dated June 13, 1997, for the above site. The workplan proposes to evaluate possible dual-phase extraction for the site based on a Soil Vapor Extraction (SVE) test they propose to conduct at the site during the third quarter of 1997. This SVE test is acceptable to this office. A report, including recommendations based on the SVE test, should be submitted to this office within 45 days after completing these tests.

Due to the fact that the severity of petroleum impact to the trailer park, which is immediately downgradient of the site, is unknown, this office is requesting that the next phase of work include an assessment of contaminant concentrations beneath the trailer park site. If free product is identified beneath this trailer park, then remediation will need to be considered (possibly SVE, if it is feasible). Otherwise, a risk assessment, or soil vapor sampling, will need to be conducted on the concentrations found at that site. Until the trailer park is better characterized, no risk assessment for this site will be required. Additionally, due to Shell's intentions for remediating the plume beneath the Shell site, no risk assessment is currently required for this site. An addendum to the workplan, addressing the characterization of the trailer park, should be submitted to this office within 30 days of the date of this letter (i.e., by July 23, 1997).

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

Sincerely,

  
Juliet Shin  
Senior Hazardous Materials Specialist

cc: N. Scott MacLeod, Cambria Environmental Technology, Inc., 1144 65th Street, Suite B,  
Oakland, CA 94608

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES

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

June 12, 1997

Mr. Alex Perez  
Shell Oil Products Company  
P.O. Box 4023  
Concord, CA 94524

STID 3769

Re: Investigations at Shell Service Station WIC #204-5510-0600, located at 4255 MacArthur Blvd., Oakland, CA

Dear Mr. Perez,

This office has reviewed Cambria's First Quarter 1997 Groundwater Monitoring Report, dated May 16, 1997, for the above site. Per the County's request, groundwater samples were analyzed for chromium, copper, and lead, in this last quarterly sampling event. Based on the lab analysis results, the chromium concentration in Well MW-4 exceeded the California drinking water threshold of 50 parts per billion. Per my conversation with Peggy Penner, Sequoia Analytical, on June 12, 1997, these groundwater samples were not filtered prior to the metals analysis. Although it is unclear whether these concentrations are attributable to the site, this office is requesting that one more round of analysis for dissolved chromium, and not total chromium, be conducted in the next quarterly sampling event.

Additionally, based on the great variation in depth-to-water identified from the monitoring wells, this office is requesting that a couple of cross-sections be prepared for these wells and included in the next monitoring report. This will be a helpful tool in understanding the geology and hydrology at the site.

Lastly, per our conversation on June 10, 1997, an addendum to the June 21, 1996 workplan will be submitted to this office by sometime next week, i.e., by June 20, 1997.

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

Sincerely,

Juliet Shin  
Senior Hazardous Materials Specialist

cc: Scott MacLeod, Cambria Environmental Tech., Inc., 1144 65th St., Ste B,  
Oakland, CA 94608

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



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

October 31, 1996

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

STID 3769

Re: Investigations at Shell Service Station WIC #204-5510-0600, located at 4255 MacArthur Blvd., Oakland, California

Dear Mr. Granberry,

The case files for the above site have recently been transferred to a new Alameda County Hazardous Materials Specialist, Juliet Shin, for oversight of investigations and corrective action.

Free product and elevated levels of TPHg and BTEX have consistently been identified in on-site wells MW-2 and MW-3 since monitoring of these wells began in November 1993. Additionally, elevated levels of benzene have been consistently identified in the off-site, downgradient well, MW-4.

The contaminant concentrations in Well MW-2 and MW-3 appear to have increased from elevated dissolved hydrocarbons to the presence of separate phase hydrocarbons, which is indicative of an on-going source. Although, some excavation was conducted around the underground storage tank area during the tank replacement in 1985, it appears that the excavation work may not have removed all of the source. In an effort to contain the plume from further migration and prevent further impact to the groundwater, and potentially to human health, this office is requesting that a corrective action proposal be submitted addressing these concerns. Although Weiss Associates submitted a Soil Vapor Extraction (SVE) Test Workplan, dated June 21, 1996, it appears that this system alone would not address the contaminants in Well MW-4, located over 80 feet from the site, and the groundwater contamination lying beneath the trailer park property located between Well MW-4 and the site. Although the SVE test is acceptable to this office, an addendum to the workplan needs to be submitted addressing greater containment measures for the off-site, downgradient extent of the contaminant plume beneath the trailer park and around Well MW-4.

Based on the separate phase hydrocarbons located at the downgradient property boundary, this office is concerned about the health of the people residing at the trailer park. This office is requesting that adequate risk assessment information be submitted to address this concern.

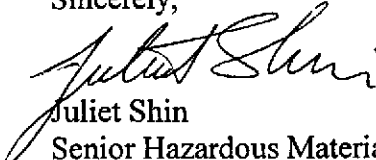
Jeff Granberry  
Re: 4255 MacArthur Blvd.  
October 31, 1996  
Page 2 of 2

Analytical results of the soil samples collected in and around the underground storage tanks in 1985 identified elevated levels of chromium, copper, and lead exceeding ten times the STLCs given in Title 22 California Code of Regulations. Since that time, no additional analysis for metals appear to have been conducted. This office is requesting that you include an analysis for heavy metals in the next quarterly groundwater monitoring event.

In the last groundwater sampling event, elevated detection limits were used for the analysis of TPHg for samples collected from MW-1 and MW-4. If possible, please try and utilize the lower detection limit of 50ppb for this analysis.

This office is requesting that the above requested workplan, and the risk assessment information, be submitted to this office **within 45 days of the date of this letter (i.e., by December 12, 1996)**. If you have any questions or comments, please contact me at (510) 567-6763.

Sincerely,



Juliet Shin

Senior Hazardous Materials Specialist

cc: Scott MacLeod  
Cambria Environmental Tech., Inc.  
1144 65th Street, Ste B  
Oakland, CA 94608

Acting Chief-File





DEPARTMENT OF ENVIRONMENTAL HEALTH  
1131 Harbor Bay Parkway  
Alameda, CA 94502-6577  
(510) 567-6777

May 7, 1996

**Jeff Granberry**  
Shell Oil Products  
P.O. Box 4023  
Concord, CA - 94524

**Ref: Shell Service Station, 4255 Macarthur Boulevard, Oakland, California**

Dear Mr. Granberry:

I am in receipt of the documents "Displacement Replacement Sampling" dated April 1, 1996 and the most recent quarterly monitoring report dated January 11, 1996 for the above referenced site. Groundwater monitoring of the wells, MW-1, MW-2 and MW-3 have been performed since November 1993 and monitoring well, MW-4 has been sampled since November 1994. This Department requires that a workplan be submitted to address the following issues:

- Based on the results submitted to this Department, significant concentrations of gasoline and benzene have been detected in monitoring well, MW-4 and free product has been noted in both monitoring wells, MW-2 and MW-3 for the past 2 quarters of monitoring. Since the extent of contamination has not been fully defined, at least one additional monitoring well at a minimum should be installed down gradient to monitoring well, MW-2 and MW-3.
- Subsequent to the removal of the dispensers and product piping at the referenced property, a total of 15 soil samples were collected. Significant concentrations of gasoline up to 7800 ppm and benzene up to 0.85 ppm were found in the soil samples collected beneath the dispensers and product piping. Since the report does not document the occurrence of any overexcavation in contaminated areas and the source has not been removed, include in your workplan, a cleanup strategy for the contaminated soils.
- Include a proposal to remediate the existing petroleum hydrocarbon free product and to control further migration of the contamination in groundwater.
- The samples collected from the stockpiled soils were found to contain significant concentrations of metals. Please submit the results of this analysis in a tabulated form and discuss the potential source of the metal contamination based on the past use of the property.

**The workplan addressing the above mentioned requirements should be submitted within 45 days of receiving this letter. This is a formal request for technical reports pursuant to California Water Code Section 13267 (b). If you have any questions, you may reach me at (510) 567-6764.**

Sincerely,

A handwritten signature in cursive script that reads "Madhulla Logan".

Madhulla Logan  
Hazardous Material Specialist

CC: **Tim Utterback**, Weiss Associates, 5500 Shellmound Street, Emeryville, CA - 94608-2411

white -env.health  
 yellow -facility  
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH  
 Hazardous Materials Inspection Form

1131 Harbor Bay Pkwy  
 Alameda CA 94502  
 510/567-6700

II, III

Site ID # 3769 Site Name SHELL Today's Date 11/17/95  
 Site Address 4255 MACARTHUR BLVD  
 City OAKLAND Zip 94619 Phone \_\_\_\_\_

\_\_\_\_ MAX AMT stored > 500 lbs, 55 gal., 200 cft.?  
**Inspection Categories:**  
 \_\_\_\_ I. Haz. Mat/Waste GENERATOR/TRANSPORTER  
 \_\_\_\_ II. Hazardous Materials Business Plan, Acutely Hazardous Materials  
 III. Under ground Storage Tanks PIPING REMOVAL

\* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

Comments:

FROM GROUND  
PIPING REMOVED PRIOR TO ARRIVAL. WILL BE RAUL BY [unclear]  
SITE SAFETY PLAN RECEIVED. ALAMEDA COUNTY ENV. HEALTH, PH. # [unclear]  
SOIL SAMPLES - X = LOCATION COLLECTED → N  
STOCKPILE SAMPLES - 4 DISCREET SAMPLES, TO BE COMBINED IN LAB  
BY TIM UTTERBACK, WEISS ASSOC, BEMERYVILLE

HIGH ST.

DISPENSER 13	NO ODOR DARK BROWN	PIPE X 4	NO ODOR DARK BROWN	TOILET	DISP. X 6	NO ODOR MOIST BROWN
DISP. 12	NO ODOR DARK BROWN	PIPE X 9	SIGHT ODOR SAND BROWN		DISP. X 5	GASOLINE ODOR MOIST
DISP. 11	NO ODOR MOIST BROWN	PIPE X 8	SIGHT ODOR SAND BROWN		DISP. X 4	GASOLINE ODOR MOIST GRAY BROWN
DISP. 10	NO ODOR MOIST BROWN GRAY	PIPE X 7	SIGHT ODOR SAND BROWN		DISP. X 3	GASOLINE ODOR MOIST GRAY
		PIPE X 9	SIGHT ODOR SAND BROWN			
		PIPE X 8	SIGHT ODOR SAND BROWN			
		PIPE X 7	SIGHT ODOR SAND BROWN			

MACARTHUR BLVD.

SUBMIT RESULTS TO M. LOGAN

Contact Tim Utterback  
 Title Staff Engineer  
 Signature Tim Utterback

Inspector \_\_\_\_\_  
 Signature Don [unclear]

II, III



July 15, 1994

Juliet Shin  
Alameda County Department of  
Environmental Health  
80 Swan Way, Room 200  
Oakland, CA 94621

REC'D  
HAZMAT  
51 JUL 19 AM 10:39

Re: Shell Service Station  
WIC #204-5510-0600  
4255 MacArthur Boulevard  
Oakland, California  
WA Job #81-757-03

Dear Ms. Shin:

On behalf of Shell Oil Company, Weiss Associates (WA) responds to your June 1, 1994 letter to Dan Kirk of Shell regarding implementing the proposed workplan to further investigate the Shell service station referenced above. Your letter requested that the proposed field work and offsite survey outlined in our workplan dated May 19, 1994 be performed within 45 days of the date of your letter, or by July 15, 1994. Due to the Department of Transportation's (CalTrans) permitting timeline and your office move, WA was unable to obtain the encroachment permit and review the County files by July 15, 1994.

WA submitted a CalTrans encroachment permit application on June 21, 1994. We received a receipt for the permit application on June 30, 1994. CalTrans informed us that they have up to 60 days to respond to permit requests. Consequently, we may not be issued an encroachment permit to install the downgradient well until mid-August. WA has also attempted to review the regulatory files of the site vicinity. However, we understand that your office is in the process of moving so obtaining an appointment to review the files has also been delayed.

WA will continue to pursue obtaining the encroachment permit and scheduling an appointment for reviewing your files. We will complete the field work within three weeks of obtaining the

Juliet Shin  
July 15, 1994

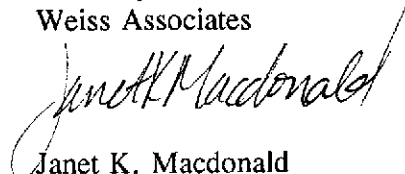
2

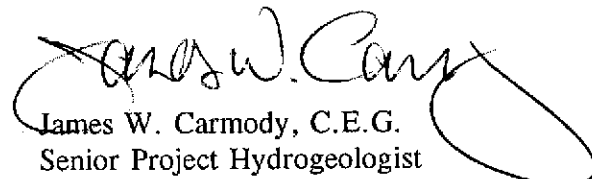
Weiss Associates 

encroachment permit and will submit a report documenting our investigation within 45 days of completing the field activities, as you requested.

Please call us if you have any questions.

Sincerely,  
Weiss Associates

  
Janet K. Macdonald  
Senior Staff Hydrogeologist

  
James W. Carmody, C.E.G.  
Senior Project Hydrogeologist

JKM/JWC:jm

J:\HC\_ENG\SHELL\OAK-757\757L1JL4.WP

cc: Dan Kirk, Shell Oil Company, P.O. Box 4023, Concord, California 94524  
Lester Feldman, Regional Water Quality Control Board - San Francisco Bay, 2101 Webster  
Street, Suite 500, Oakland, California 94612


**Weiss Associates**
*Environmental and Geologic Services*

5500 Shellmound Street, Emeryville, CA 94608-2411

Fax: 510-547-5043 Phone: 510-547-5420

## FAX TRANSMITTAL

### CONFIDENTIALITY NOTICE

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DATE: 6/22/94

TO: Juliet Shiu

FAX PHONE: (510) 569-4757

COMPANY: ACDEH

BUSINESS PHONE: (510) 271-4530

FROM: John Wolf

PROJECT #:

SUBJECT: File Search

 # PAGES 1  
(including this cover)

 Hard Copy to follow  
if checked

### COMMENTS & ACTIONS REQUIRED:

I am interested in making an appointment to view files for properties in the vicinity of Shell service station at 4255 MacArthur Blvd (the intersection of MacArthur and High St.). Recently I was doing a site search in Alameda and you faxed me a figure with addresses that have leakers. Is there any way to generate another figure like that and fax it to me so I can indicate which files I would like to review? It would be greatly appreciated. Please call me at (510) 450-6112 upon receipt of this fax to confirm an appointment time. If you have any questions please do not hesitate to call.

Thank you,

**NOTE:** Please call Michael Merchant at (510) 450-6000 if you do not receive all pages



June 21, 1994

Department of Transportation  
District 4 Permits  
P.O. Box 23660  
Oakland, California  
94623-0660

Re: STID #3769  
Shell Service Station  
4255 MacArthur Boulevard  
Oakland, California  
WA Job #81-757-104

ALCO  
HAZMAT  
94 JUN 23 PM 3:02

Dear Sir:

Weiss Associates is requesting to drill and install a ground water monitoring well adjacent to the west-bound Highway 580 onramp near High Street in Oakland. Enclosed are the Standard Encroachment Permit Application, site location maps, five copies of the monitoring well completion details and a check for \$210.00, as requested.

Based on a telephone conversation with you on June 16, 1994, it is our understanding that the Department of Transportation has 60 days to respond to the permit request, and if our request is denied, \$140.00 will be refunded to us. Upon approval of the request, a \$2,000.00 bond will be submitted to you.

Please send me a receipt for the \$210 application fee. You may contact me at (510) 450-6171 if you have any questions.

Sincerely,  
Weiss Associates

Janet K. Macdonald  
Senior Staff Hydrogeologist

J:\HC\_ENG\SHELL\OAK-757\757L1JU4.WP

cc w/o encl.: Dan Kirk, Shell Oil Company, P.O. Box 5278, Concord, California 94520-9998  
Juliet Shin, Alameda County Department of Environmental Health, 80 Swan Way,  
Rm 200, Oakland, California 94621

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

June 1, 1994

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

STID 3769

Re: Work plan for investigations at Shell Service Station WIC  
#204-5510-0600, located at 4255 MacArthur Blvd., Oakland,  
California

Dear Mr. Kirk,

This office has reviewed Weiss Associates' work plan, dated May 19, 1994, for the above site. This work plan is acceptable with the following conditions/reminders:

- o All three on-site monitoring wells have consistently identified very elevated levels of TPHg and BTEX, with the lowest concentrations being identified in the upgradient well, MW-1. Although an off-site survey will be conducted to identify any potential off-site sources, it appears that the Shell site may be a primary contributor, if not the sole contributor, to the observed on-site contamination. **Per Article 11 Title 23 California Code of Regulations and RWQCB's guidelines, you are required to fully characterize and delineate the extent of both soil and ground water contamination at the site, and permanent monitoring wells and quarterly monitoring are required to be employed to delineate the extent of the ground water contaminant plume. However, the proposed work does not address all these issues. It is the understanding of this office that this phase of work will only be used as a screening tool to determine adequate locations for permanent monitoring wells.**

The proposed work, along with the off-site survey, shall be performed within 45 days of the date of this letter. Within 45 days after completing field activities, a report documenting the work, and a work plan proposing the installation of permanent monitoring wells to delineate the extent of the plume, shall be submitted to this office.



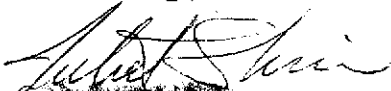
Mr. Dan Kirk  
Re: 4255 MacArthur  
June 1, 1994  
Page 2 of 2

- o A minimum of one soil sample from each boring location shall be analyzed at a certified laboratory, in an effort to delineate the extent of soil contamination at the site.

Lastly, although you submitted the laboratory analysis results for soil samples collected from the past overexcavation, it is still unclear where these soil samples were collected from and how much contaminated soil was left in place. Please make additional efforts to obtain more detailed information about the tank removals and overexcavation.

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

Sincerely,



~~Robert Smith~~  
Hazardous Materials Specialist

cc: Janet MacDonald  
Weiss Associates  
5500 Shellmound St.  
Emeryville, CA 94608-2411

Edgar Howell-File(JS)