

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



SENT
04-06-06

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

April 5, 2006

Shelby Lathrop
ConocoPhillips
76 Broadway
Sacramento, CA 95818

Subject: Fuel Leak Case No. RO0000258, Unocal #6034, 4700 First Street, Livermore, CA –
Work Plan Approval

Dear Ms. Lathrop:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site and the document entitled, "Work Plan – Soil Boring Assessment and Groundwater Monitoring Well Sampling," dated March 29, 2006, and "Quarterly Report, Fourth Quarter 2005," dated February 10, 2006. The Work Plan describes a scope of work to advance one cone penetrometer boring downgradient of well MW-2 in order to identify water-bearing zones for grab groundwater sampling. Subsequent borings will be advanced to collect depth-discrete groundwater samples from the water-bearing zones. The Work Plan also indicates that groundwater samples will be collected from existing monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, and MW-7. ACEH concurs with the proposed scope of work provide that technical comments 1 and 2 below are addressed during the field investigation.

ACEH requests that you address the following technical comments, 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) prior to the start of field activities.

TECHNICAL COMMENTS

- 1. Depth of Cone Penetrometer Boring.** We request that the cone penetrometer boring to collect soil samples and identify potential water-bearing zones for grab groundwater sampling be advanced to a depth of approximately 50 feet below ground surface. Coarse-grained water-bearing zones are to be identified for depth-discrete grab groundwater sampling. As proposed in the Work Plan, the depth-discrete grab groundwater samples are to be collected from additional boreholes. Please present the results in the Soil and Groundwater Investigation Report requested below.
- 2. Laboratory Analyses.** We concur with the proposed laboratory analyses for soil and groundwater samples but request that tertiary-butyl alcohol (TBA) be included in addition to the other fuel oxygenates as an analyte using EPA Method 8260B.
- 3. Request for Information on Soil Borings S-1 through S-5.** In correspondence dated January 11, 2006, ACEH requested information on soil borings SB-1 through SB-5 shown on the Site Map (Figure 2) of the Sensitive Receptor Survey report. ACEH appreciates receiving an electronic upload of the report entitled, "Baseline Site Assessment Report,"

dated December 3, 2003, which presents analytical data and boring logs for soil borings S-1 through S-5.

TECHNICAL REPORT REQUEST

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

- **August 7, 2006** – Soil And Groundwater Investigation Report

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

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

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

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

PERJURY STATEMENT

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

letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

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

UNDERGROUND STORAGE TANK CLEANUP FUND

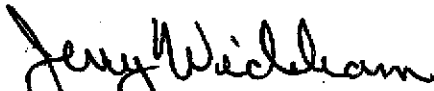
Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

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

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

Sincerely,



Jerry Wickham
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

Shelby Lathrop
April 5, 2006
Page 4

cc: Matt Katen, QIC 80201
Zone 7 Water Agency
100 North Canyons Parkway
Livermore, CA 94551

Danielle Stefani
Livermore-Pleasanton Fire Department
3560 Nevada Street
Pleasanton, CA 94566

Daniel Davis
Delta Environmental Consultants, Inc.
3164 Gold Camp Drive, Suite 200
Rancho Cordova, CA 95670

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



SENT
01-12-06

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

January 11, 2006

Shelby Lathrop
ConocoPhillips
76 Broadway
Sacramento, CA 95818

Subject: Fuel Leak Case No. RO0000258, Unocal #6034, 4700 First Street, Livermore, CA

Dear Ms. Lathrop:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site and the reports entitled, "Sensitive Receptor Survey," dated September 28, 2005 and "Quarterly Report, Second Quarter 2005," dated July 29, 2005. Groundwater monitoring is currently conducted at the site on a semi-annual basis using wells MW-2 and MW-4. Dissolved fuel hydrocarbons, including methyl tert-butyl ether (MTBE), continue to be detected in well MW-2, which is located adjacent to the northern corner of the tank pit. During the June 13, 2005 groundwater monitoring event, total petroleum hydrocarbons as gasoline (TPHg) were detected at a concentration of 3,300 micrograms per liter ($\mu\text{g/L}$) and MTBE was detected at a concentration of 2.5 $\mu\text{g/L}$ in well MW-2. The extent of elevated concentrations of fuel hydrocarbons in groundwater appears to be limited to the area of well MW-2; however, no groundwater samples have been collected from the two downgradient wells at the site since 1996. In order to confirm that the extent of elevated concentrations fuel hydrocarbons in groundwater is limited to the area of the tank pit and well MW-2, we request that you submit a work plan by **March 29, 2006** to collect soil and groundwater samples from a boring downgradient of the tank pit and well MW-2.

ACEH requests that you address the following technical comments, 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) prior to the start of field activities.

TECHNICAL COMMENTS

1. **Downgradient and Vertical Extent of Dissolved Fuel Hydrocarbons.** Based on groundwater monitoring data collected to date, the extent of elevated concentrations of dissolved fuel hydrocarbons in groundwater appears to be limited to the area of the tank pit and well MW-2. The concentrations of fuel hydrocarbons detected in groundwater from well MW-2 have been highly variable but generally have decreased over time. No groundwater samples have been collected since 1996 from the two downgradient monitoring wells at the site (MW-6 and MW-7) to confirm that the plume is shrinking. Well MW-6, has been described in sampling reports as obstructed with roots or dry since April 1996. In order to confirm that the plume of dissolved hydrocarbons is limited in extent both laterally and vertically, we request that you advance soil borings in a location directly downgradient from well MW-2. One soil boring or cone penetrometer boring should be logged continuously to a depth of approximately 50 feet below ground surface to collect soil samples and identify

potential water-bearing zones for grab groundwater sampling. A second soil boring should be advanced immediately adjacent to the first boring to collect discrete grab groundwater samples at the depth intervals selected using the log from the first continuously sampled soil boring or cone penetrometer boring. Please present plans to collect soil and groundwater samples from a location downgradient of well MW-2 in the Work Plan requested below.

2. **Soil Borings S-1 through S-5.** Soil borings SB-1 through SB-5 appear on the Site Map (Figure 2) of the Sensitive Receptor Survey report. We did not find data or boring logs for these borings in the case file. Please present available analytical data and boring logs for these borings in the Work Plan requested below.
3. **Monitoring Wells.** Monitoring wells MW-2 and MW-4 are currently the only wells sampled during semi-annual groundwater monitoring at the site. Please present plans in the Work Plan requested below to sample wells MW-1, MW-2, MW-3, MW-4, MW-5, and MW-7 once, in conjunction with the soil and depth-discrete grab groundwater sampling requested in comment 1 above.

TECHNICAL REPORT REQUEST

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

- **March 29, 2006 – Soil And Groundwater Investigation Report**

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

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

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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).

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

PERJURY STATEMENT

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

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

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

UNDERGROUND STORAGE TANK CLEANUP FUND

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

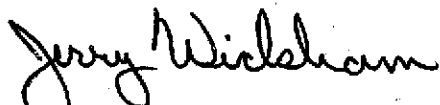
AGENCY OVERSIGHT

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

Shelby Lathrop
January 11, 2006
Page 4

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: Matt Katen, QIC 80201
Zone 7 Water Agency
100 North Canyons Parkway
Livermore, CA 94551

Danielle Stefani
Livermore-Pleasanton Fire Department
3560 Nevada Street
Pleasanton, CA 94566

Daniel Davis
Delta Environmental Consultants, Inc.
3164 Gold Camp Drive, Suite 200
Rancho Cordova, CA 95670

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



SENT
7-18-05

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

July 18, 2005

Shelby Lathrop
ConocoPhillips
76 Broadway
Sacramento, CA 95818

Subject: Fuel Leak Case No. RO0000258, Unocal #6034, 4700 First Street, Livermore, CA

Dear Ms. Lathrop:

Alameda County Environmental Health (ACEH) staff has reviewed the case file and the work plan entitled, "Work Plan – Sensitive Receptor Survey," dated June 7, 2005 prepared for the above referenced site on behalf of ConocoPhillips by ATC Associates, Inc. The work plan proposes the completion of a well search and sensitive receptor survey of water bodies and sensitive facilities. ACEH concurs with the sensitive receptor survey as proposed in the work plan. Please present information from the sensitive receptor survey in the report requested below. The report should also include recommendations regarding the need for additional assessment at the site.

TECHNICAL REPORT REQUEST

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

- **August 15, 2005** – Semiannual Monitoring Report for the Second Quarter 2005
- **October 17, 2005** – Sensitive Receptor Survey Report
- **February 15, 2006** – Semiannual Monitoring 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

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.

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



SENT
7-18-05

July 18, 2005

Messrs. Joel Pitney and Donald Miller
California Linen Rental Co.
989 41st St.
Oakland, CA 94608

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

Dear Messrs. Pitney and Miller:

Subject: Fuel Leak Case RO0000337, California Linen Rental Co., 989 41st St.,
Oakland, CA 94608

Alameda County Environmental Health staff has reviewed the case file for the referenced site including the May 25, 2005 *Subsurface Investigation Work Plan (B4 to B9)* from RGA Environmental Inc. This work was proposed to assess the extent of the petroleum release to soil and groundwater from the former 550 gallon gasoline tank at this site. In addition, the quality control of prior soil vapor samples was discussed. We request that you address the following technical comments and submit the technical reports requested below.

TECHNICAL COMMENTS

1. Quality control results for prior soil vapor samples could not be provided because the analytical method used, TO3, could not detect the tracer leak compound, isopropanol. The sample should have been run by TO14 or TO15. Future soil vapor samples should be run using an analytical method, which detects the tracer compound.
2. The referenced work plan proposes to install a total of (6) borings in two sets of three borings to determine the extent of the gasoline release from the former UST. Soil vapor sampling may be proposed after this investigation. We request that the locations of the borings be "tightened". For the first set of borings, the distance between the borings should be approximately halved, with boring B4 closer to B3, B5 closer to B4, et al. Similarly, the second set of borings should be moved approximately 30' north and the distances between B7 and B8 halved. This recommendation is based upon the narrow plumes encountered in the neighboring sites.

TECHNICAL REPORT REQUEST

Please submit the following technical report to our office according to the following schedule.

- 45 days after completion of subsurface investigation- Soil and Groundwater Investigation report.

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

Sincerely,

Barney M. Chan
Hazardous Materials Specialist

C: files, D. Drogos
Mr. Paul King, RGA Environmental, 4701 Doyle St., Suite 14, Emeryville, CA 94608

7_18_05 989 41st St

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



06-07-01

00158

StID 2465

June 5, 2001

David DeWitt
Tosco Marketing Company
2000 Crow Canyon Place Suite 400
San Ramon, CA 94583

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

RE: Tosco (UNOCAL) 4700 First Street, Livermore, CA

Dear Mr. DeWitt:

This office is in receipt of "Groundwater Monitoring & Sampling Report, First Semi-Annual Event of April 2, 2001" dated May 16, 2001, submitted by Deanna L. Harding of Gettler-Ryan Inc. regarding the above referenced property.

Per this report only the monitoring well MW-2 and MW-4 were sampled and analyzed. They both detected non-detect concentrations of the contaminants with the exception of MTBE, which was detected in low level in MW-4 well at 16ppb. You may make proposal to stop monitoring and or analysis of the wells, which have shown to contain non-detect levels of all contaminants consistently.

Additionally the above document included some information regarding the neighboring properties as well.

Per figure 1 within this report groundwater flow gradient is to the northwest. With the present groundwater flow gradient and the concentration of the constituents detected within MW-4 or MW-3 historically, there seems to be no contamination coming from off-site sources. However, MW-4 has had some revealed some contamination in the past.

If you have any questions, please call me at (510)-567-6876.

Sincerely,

A handwritten signature in black ink, appearing to read "Amir K. Gholami".

Amir K. Gholami, REHS
Hazardous Materials Specialist

C: Deanna L. Harding, Project Coordinator, Gettler-Ryan Inc., 6747 Sierra Court, Suite J,
Dublin, CA 94568
Files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



SOWT 8-17-2000

RO# 258

StID 2465

August 16, 2000

David DeWitt
Tosco Marketing Company
2000 Crow Canyon Place Suite 400
San Ramon, CA 94583

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

RE: Tosco (UNOCAL) 4700 First Street, Livermore, CA

Dear Mr. DeWitt:

I am in receipt of the "Semi-Annual 2000 Groundwater Monitoring & Sampling Report" dated June 13, 2000, submitted by Deanna L. Harding of Gettler-Ryan Inc. regarding the above referenced property.

According to this report, the concentrations of the contaminants in general has been on the decline including the oxygenates compounds with the MW-2 well, the most contaminated well, at 40.1ppb of MTBE. There were other minor contaminants as well. There have been some oscillations in the concentrations of TPH (G), Benzene, Ethylbenzene, Xylene, and MTBE compounds in the past. However, at the present time you may make proposal to stop monitoring and or analysis of some of the wells, which have revealed to contain non-detect levels of all contaminants consistently.

Groundwater flow gradient is to the northwest.

I will look forward for the next Groundwater Monitoring Report.

Should you have any questions, please call me at (510)-567-6876.

Sincerely,

Amir K. Gholami, REHS
Hazardous Materials Specialist

C: Deanna L. Harding, Project Coordinator, Gettler-Ryan Inc., 6747 Sierra Court, Suite J,
Dublin, CA 94568
Files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



02-23-01

20258

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

STID 2465

February 13, 2000

David DeWitt
Tosco Marketing Company
2000 Crow Canyon Place Suite 400
San Ramon, CA 94583

RE: Tosco (UNOCAL) 4700 First Street, Livermore, CA

Dear Mr. DeWitt:

This office is in receipt of the "Groundwater Monitoring & Sampling Report Second Semi-Annual 2000" dated December 15, 2000, submitted by Deanna L. Harding of Gettler-Ryan Inc. regarding the above referenced property.

Per this report, MW-1, MW-3, MW-5, MW-6, and MW-7 were not sampled. The concentrations of the contaminants in general has been on the decline including the oxygenates compounds with the MW-2 well, which has been the well with the most pollutant at 9.2 ppb of MTBE. Additionally there were other minor contaminants as well with minor oscillations in the concentrations of some of the constituents. However, as indicated previously, you may make proposal to stop monitoring and or analysis of some of the wells, which have revealed to contain non-detect levels of all contaminants consistently.

Per figure 1 of this report groundwater flow gradient is to the northwest.

If you have any questions, please call me at (510)-567-6876.

Sincerely,

Amir K. Gholami, REHS
Hazardous Materials Specialist

C: Deanna L. Harding, Project Coordinator, Gettler-Ryan Inc., 6747 Sierra Court, Suite J,
Dublin, CA 94568
Files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



*Sent 1/13/00
Including cc's*

20258

StID 2465

January 13, 2000

David DeWitt
Tosco Marketing Company
2000 Crow Canyon Place Suite 400
San Ramon, CA 94583

RE: Tosco (UNOCAL) 4700 First Street, Livermore, CA

Dear Mr. DeWitt:

This office is in receipt of the "Groundwater Monitoring & Sampling Report Semi-Annual 1999" dated December 2, 1999, submitted by Deanna L. Harding of Gettler-Ryan Inc. regarding the above referenced property.

Per this report, the MW-2 well is still the well with highest concentrations of contaminants with 2,200ppb TPH(G), 480ppb of Xylene, and 52ppb of MTBE. As indicated previously, there have been some oscillations in the concentrations of TPH(G), Benzene, Ethylbenzene, Xylene, and MTBE compounds.

I will look forward for the next Groundwater Monitoring Report.

If you have any questions, please do not hesitate to call me at (510)-567-6876.

Sincerely,

Amir K. Gholami, REHS
Hazardous Materials Specialist

C: Deanna L. Harding, Project Coordinator, Gettler-Ryan Inc., 6747 Sierra Court, Suite J,
Dublin, CA 94568
Files

ENVIRONMENTAL HEALTH SERVICES
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1131 Harbor Bay Parkway
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ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



Sent 11-16-99
Including cc's

P0258

StID 2465

November 15, 1999

David DeWitt
Tosco Marketing Company
2000 Crow Canyon Place Suite 400
San Ramon, CA 94583

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6700
(510) 337-9432

RE: Tosco (UNOCAL) 4700 First Street, Livermore, CA

Dear Mr. DeWitt:

I have received and reviewed the analytical laboratory result regarding "other oxygenated contaminants" such as those of TAME, DIPE, ETBE, TBA, EDB, and EDC from Mr. Douglas J. Lee of Gettler-Ryan Inc. Mr. Lee's letter was in response to my inquiry in the letter dated September 28th, 1999 by this office.

Thank you for the submittal of the letter and the laboratory results. Per this report, all oxygenated compounds were found at "ND", non-detect level, except presence of low concentrations of MTBE in MW-2 and MW-4 wells.

I understand that the second semi-annual monitoring and sampling event was performed on October 12th, 1999, and that the results of this event will be forwarded to this office.

I will look forward for this report.

Should you have any questions, please call me at (510)-567-6876.

Sincerely,

Amir K. Gholami, REHS
Hazardous Materials Specialist

C: Douglas J. Lee, Project Coordinator, Gettler-Ryan Inc., 6747 Sierra Court, Suite J,
Dublin, CA 94568
Files

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY

DAVID J. KEARS, Agency Director

R0258

StID 2465

September 28, 1999

David DeWitt
Tosco Marketing Company
2000 Crow Canyon Place Suite 400
San Ramon, CA 94583

ENVIRONMENTAL HEALTH SERVICES

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

RE: Tosco (UNOCAL) 4700 First Street, Livermore, CA

Dear Mr. DeWitt:

I have received and reviewed the "Groundwater Velocity" document dated June 3, 1999, submitted by Douglas J. Lee of Gettler-Ryan Inc. regarding the above referenced property. Thank you for the submission of this report.

I understand that the estimated groundwater velocity calculated, using seepage velocity formula derived from Darcy's Law, was found to be 0.0014 ft/yr for silt and 139.7 ft/yr for well graded gravel with sand. It seems that the dissolved hydrocarbon has not migrated laterally to MW-7 well looking at the available analytical results.

I wonder if the test for presence of other oxygenated contaminants such as those of TAME, DIPE, ETBE, TBA, EDB, and EDC has been performed. If so please include a copy of the test result with the next groundwater monitoring report. Otherwise please perform the test and forward the result along with the next report.

I will look forward for the next Groundwater Monitoring Report.

If you have any questions, please call me at (510)-567-6876.

Sincerely,

Amir K. Gholami, REHS
Hazardous Materials Specialist

C: Douglas J. Lee, Project Coordinator, Gettler-Ryan Inc., 6747 Sierra Court, Suite J,
Dublin, CA 94568
Files

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

RO 258

July 19, 1999

ENVIRONMENTAL HEALTH SERVICES

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

STID 2465

Mr. DeWitt
Tosco Marketing Company
2000 Crow Canyon Place Suite 400
San Ramon, CA 94583

RE: Tosco (UNOCAL), 4700 First Street, Livermore, CA

LANDOWNER NOTIFICATION AND PARTICIPATION REQUIREMENTS

Dear Mr. Dewitt:

This letter is to inform you of new legislative requirements pertaining to cleanup and closure of sites where an unauthorized release of hazardous substance, including petroleum, has occurred from an underground storage tank (UST). Section 25297.15(a) of Ch. 6.7 of the Health & Safety Code requires the primary or active responsible party to notify all current record owners of fee title to the site of: 1) a site cleanup proposal, 2) a site closure proposal, 3) a local agency intention to make a determination that no further action is required, and 4) a local agency intention to issue a closure letter. Section 25297.15(b) requires the local agency to take all reasonable steps to accommodate responsible landowners' participation in the cleanup or site closure process and to consider their input and recommendations.

For purposes of implementing these sections, you have been identified as the primary or active responsible party. Please provide to this agency, within twenty (20) calendar days of receipt of this notice, a complete mailing list of all current record owners of fee title to the site. You may use the enclosed "list of landowners" form (sample letter 2) as a template to comply with this requirement. If the list of current record owners of fee title to the site changes, you must notify the local agency of the change within 20 calendar days from when you are notified of the change.

If you are the sole landowner, please indicate that on the landowner list form. The following notice requirements do not apply to responsible parties who are the sole landowner for the site.

LANDOWNER NOTIFICATION

Re: 2000 Crow Canyon Place, Suite 400, San Ramon

July 19, 1999

Page 2 of 2

In accordance with Section 25297.15(a) of Ch. 6.7 of the Health & Safety Code, you must certify to the local agency that all current record owners of fee title to the site have been informed of the proposed action before the local agency may do any of the following:

- 1) consider a cleanup proposal (corrective action plan)
- 2) consider a site closure proposal
- 3) make a determination that no further action is required
- 4) issue a closure letter

You may use the enclosed "notice of proposed action" form (sample letter 3) as a template to comply with this requirement. Before approving a cleanup proposal or site closure proposal, determining that no further action is required, or issuing a closure letter, the local agency will take all reasonable steps necessary to accommodate responsible landowner participation in the cleanup and site closure process and will consider all input and recommendations from any responsible landowner.

Please call me at (510) 567-6876 if you have any questions about the content of this letter.

Sincerely,



Amir K. Gholami, REHS
Hazardous Materials Specialist

cc: Chuck Headlee, RWQCB

Attachments: Sample letter 2 and Sample letter 3, which must be filled out by the Responsible Party and mailed to Alameda County.

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



FO 258

StID 2465

June 23, 1999

David DeWitt
Tosco Marketing Company
2000 Crow Canyon Place Suite 400
San Ramon, CA 94583

ENVIRONMENTAL HEALTH SERVICES

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

RE: Tosco (UNOCAL) 4700 First Street, Livermore, CA

Dear Mr. DeWitt:

I have received and reviewed the "semi-annual 1999 Groundwater Monitoring & Sampling Report" dated June 3, 1999, submitted by Deanna L. Harding of Gettler-Ryan Inc. regarding the above referenced property. Thank you for the submission of this report. As you are aware, the MW-2 well is the well with highest concentrations of contaminants. However, there have been numerous oscillations in the concentrations of the contaminants in the MW-2 well. This variation of concentrations has been taking place in regard to TPH(G), Benzene, Ethylbenzene, Xylene, and MTBE.

The test for presence of other oxygenated contaminants such as those of TAME, DIPE, ETBE, TBA, EDB, and EDC revealed non-detect, ND levels for all of these constituents.

As indicated previously, I need to know how fast per year the ground water is moving in this region to confirm that MTBE plume is localized around MW2 only. **Please calculate and submit the ground water speed on this site.** This requirement can be accomplished during the next Quarterly Groundwater Monitoring Report.

I will look forward for the next Groundwater Monitoring Report, which should include Groundwater speed on the above referenced site.

Should you have any questions, please call me at (510)-567-6876.

Sincerely,

Amir K. Gholami, REHS
Hazardous Materials Specialist

C: Deanna L. Harding, Project Coordinator, Gettler-Ryan Inc., 6747 Sierra Court, Suite J,
Dublin, CA 94568
Files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



ROZSS

StID 2465

May 17, 1999

David DeWitt
Tosco Marketing Company
2000 Crow Canyon Place Suite 400
San Ramon, CA 94583

ENVIRONMENTAL HEALTH SERVICES

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

RE: Tosco (UNOCAL) 4700 First Street, Livermore, CA

Dear Mr. DeWitt:

As you are aware, I sent you a letter dated May 12th, 1999 requesting several items to be addressed by June 12th, 1999. In the letter, I requested that you calculate the speed of ground water as well as **testing for the presence of other oxygenated contaminants such as those of TAME, DIPE, ETBE, TBA, EDB, and EDC at least once to ensure absence of the indicated constituents.** Per our discussion, the first requirement was already met and submitted.

The second requirement can be accomplished during the next Quarterly Groundwater Monitoring Report, which is due presently.

Per our discussion please respond within 30 days from the receipt of this letter or by June 12, 1999.

If you need an extension for the submittal of the above or you have any other questions, please call me at (510)-567-6876.

Sincerely,

Amir K. Gholami, REHS
Hazardous Materials Specialist

C: Deanna L. Harding, Project Coordinator, Gettler-Ryan Inc., 6747 Sierra Court, Suite J,
Dublin, CA 94568
Files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



R0258

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

StID 2465

May 12, 1999

David DeWitt
Tosco Marketing Company
2000 Crow Canyon Place Suite 400
San Ramon, CA 94583

RE: Tosco (UNOCAL) 4700 First Street, Livermore, CA

Dear Mr. DeWitt:

As you are aware, I sent you a letter dated 1/6/99 requesting several items to be addressed within 30 days of the receipt of the letter or by 2/6/99. To this date this office has not received the requested information. As indicated previously, I need to know how fast per year the ground water is moving in this region to confirm that MTBE plume is localized around MW2 only. This is necessary since MTBE level of 3700 ppb was found in MW2 well alone, according to the last report. **Please calculate and submit the ground water speed on this site.**

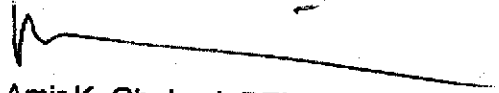
Additionally, per Cal/EPA and Regional Water Quality Control Board (RWQB), **you need to test for the presence of other oxygenated contaminants such as those of TAME, DIPE, ETBE, TBA, EDB, and EDC at least once to ensure absence of the indicated constituents.**

The above requirements can be accomplished during the next Quarterly Groundwater Monitoring Report, which is due presently.

Please respond within 30 days from the receipt of this letter or by June 12, 1999.

If you have any questions, call me at (510)-567-6876.

Sincerely,



Amir K. Gholami, REHS
Hazardous Materials Specialist

C: Deanna L. Harding, Project Coordinator, Gettler-Ryan Inc., 6747 Sierra Court, Suite J,
Dublin, CA 94568
Files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



R0# 258

STD 2465

March 8, 1999

David DeWitt
Tosco Marketing Company
2000 Crow Canyon Place Suite 400
San Ramon, CA 94583

RE: Tosco (UNOCAL) 4700 First Street, Livermore, CA

Dear Mr. DeWitt:

I have received and reviewed the letter and groundwater velocity calculation dated March 4, 1999 by Gettler-Ryan Inc. I understand that some of the wells are being monitored and sampled semi-annually per this office correspondence dated December 19, 1998.

The groundwater velocity if 139.7 ft/yr. for graded gravel with sand should have reached MW-7 downgradient well by now. However, the velocity of 0.0014 ft/yr. for silt obviously is obviously too slow to have reached MW-7 well for the same duration. I will be looking forward to receive the groundwater samples for the next sampling event which will be analyzed by EPA method 8260 to confirm the absence of fuel oxygenates other than MTBE.

If you have any questions, I can be reached at (510) 567-6876.

Sincerely,

Amir K. Gholami, REHS
Hazardous Materials Specialist

C: Douglas J. Lee, Project Manager, Gettler-Ryan Inc., 6747 Sierra Court, Suite J,
Dublin, CA 94568
Files

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

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



RO# 258

StID 2465

January 6, 1999

David DeWitt
Tosco Marketing Company
2000 Crow Canyon Place Suite 400
San Ramon, CA 94583

ENVIRONMENTAL HEALTH SERVICES

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

RE: Tosco (UNOCAL) 4700 First Street, Livermore, CA

Dear Mr. DeWitt:

This office has assigned me to review the above referenced site. It has come to my attention that MTBE level of 3700 ppb was found in MW2 well only. It seems that the MTBE should have reached to downgradient monitoring wells of MW7 or MW6 by now since the work started in 1991. However, MTBE has not migrated into downgradient wells. I need to know how fast per year the ground water is moving in this region to confirm that MTBE plume is localized around MW2 only. **Please calculate and submit the ground water speed on this site.** As you are aware there was also 41,000 ppb of TPH(G) in MW-2 well as well. In addition, according to Cal /EPA's guidelines and Chuck Headlee of Regional Water Quality Control Board (RWQCB) **you need to test for the presence of other oxygenated contaminants such as those of TAME, DIPE, ETBE, TBA, EDB, and EDC at least once to ensure absence of the indicated constituents.**

Please respond within 30 days from the receipt of this letter.

If you have any questions, I can be reached at (510) 567-6876.

Sincerely,

Amir K. Gholami, REHS
Hazardous Materials Specialist

C: Deanna L. Harding, Project Coordinator, Gettler-Ryan Inc., 6747 Sierra Court, Suite J,
Dublin, CA 94568
Files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



R0#258

August 5, 1997

ENVIRONMENTAL HEALTH SERVICES

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

Tom Schoenstein
Tait & Associates, Inc.
1001 Galaxy Way
Suite 304
Concord CA 94520

Subject: Unocal Station, 4700 First Street, Livermore CA 94550

Dear Mr. Schoenstein:

Enclosed please find all the documents related to a project no longer under the jurisdiction of this office. As you may recall from our telephone conversation today, this project previously submitted for approval is now under the jurisdiction of Livermore-Pleasanton Fire Department. As such the plans are being returned to your office.

The monies deposited for the review process will be refunded less the costs to date for oversight. The total refund is \$785.20, which will be mailed under separate cover.

If you have any questions related to the refund please contact Candyce Kelly at (510) 670-6866.

Sincerely,

Robert Weston
Sr. Hazardous Materials Specialist

enclosure

c: file

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



R0#258

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

StID 2465

December 19, 1996

Ms. Tina Berry
Unocal
P.O. Box 5155
San Ramon, CA 94583

**RE: Reduced Sampling at Unocal SS #6034, 4700 1st Street,
Livermore, CA**


Dear Ms. Berry:

Thank you for the submittal of mpds' November 1996 Quarterly Data Report for the above referenced site.

The sampling frequency of groundwater monitoring wells MW-2 and MW-4 may be reduced to a semi-annual basis. The wells should be sampled in April and October of subsequent years.

Also, you may discontinue groundwater sampling of the remaining wells, MW-1, MW-3, MW-5, MW-6, and MW-7.

If you have any questions, I can be reached 510/ 567-6762.


eva chu
Hazardous Materials Specialist

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



R0258

RAFAT A. SHAHID, DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH

1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6777

StID 2465

December 1, 1995

Ms. Tina Berry
UNOCAL
P.O. Box 5155
San Ramon, CA 94583

**RE: Reduce Sampling Frequency at Unocal SS #6034, 4700 1st St,
Livermore**

Dear Ms. Berry:

I have completed review of mpds' November 1995 Quarterly Data Report for the above referenced site. There is sufficient groundwater data at this time where sampling frequency may be reduced as follows:

1. sample quarterly well MW-2;
2. sample semi-annually well MW-4; and
3. sample annually wells MW-3, MW-5, MW-6, and MW-7.

Groundwater should be analyzed for TPH-G and BTEX. MTBE should be quantified. Additionally, dissolved oxygen should be measured so the effectiveness of ORC can be evaluated.

If you have any questions, I can be reached at (510) 567-6762.

eva chu
Hazardous Materials Specialist

cc: files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



R0258

RAFAT A. SHAHID, Assistant Agency Director

StID 2465

September 30, 1994

Ms. Tina Berry
UNOCAL Corp
P.O. Box 5155
San Ramon, CA 94583

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

RE: CAP for Unocal Service Station #6034, 4700 1st Street,
Livermore 94550

Dear Ms. Berry:

Upon review the case file for the above referenced site, it appears groundwater contamination persists in the vicinity of well MW-2. At this time, pursuant to Section 2721 et seq. of Article 11, Title 23, California Code of Regulations, you are hereby requested to develop a Corrective Action Plan (CAP) for further investigation of this site, and to identify and evaluate all feasible alternatives for cleanup of soil and groundwater caused by the unauthorized release of petroleum products.

The referenced CAP is due in this office within 45 days of the date of this letter, or by November 18, 1994. Please be advised that this is a formal request for technical reports pursuant to Title 23, CCR, Section 2722(c). Any extensions of the stated deadlines, or modifications of the required tasks, must be confirmed in writing by this agency.

Should you have any questions about the content of this letter, please contact me at (510) 567-6762.

eva chu
Hazardous Materials Specialist

cc: files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



R0258

RAFAT A. SHAHID, Assistant Agency Director

May 17, 1993
STID # 2465

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

Mr. Syed Rizvi
Unocal, Environmental Compliance
911 Wilshire Blvd., Floor 11
Los Angeles, CA 90017

Re: FIVE YEAR UNDERGROUND STORAGE TANK PERMIT AT,
UNOCAL #2465, 4700 FIRST STREET, LIVERMORE 94550

Dear Mr. Rizvi:

Please replace the U.G.S.T. permit and cover letter mailed March 17, 1993 with the enclosed five year permit for the tanks at the above referenced facility. These tanks are double-walled with fiberglass coating. Their associated piping is also double-walled, with fiberglass secondary piping.

To operate under a valid permit, you are required to comply with the conditions in Title 23 of the California Code of Regulations (CCR). Based on these requirements, both tanks and piping are monitored by an electronic alarm system.

You may consult the revised Title 23, CCR for additional requirements. To obtain a copy of the regulations, you may contact the State Water Resources Control Board at (916) 657-0917.

If you have any questions regarding the permit to operate, do not hesitate to contact me at (510) 271-4320, Monday through Thursday.

Sincerely,

Kevin Tinsley
Hazardous Materials Specialist

c, Edgar Howell, Chief - files (kt)
Brian Oliva, Hazardous Materials Specialist
Ken Peacock, Unocal Dealer

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY

DAVID J. KEARS, Agency Director

R0258

RAFAT A. SHAHID, Assistant Agency Director

March 19, 1993
STID # 2465

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

Mr. Syed Rizvi
Unocal, Environmental Compliance
911 Wilshire Blvd., Floor 11
Los Angeles, CA 90017

Re: FIVE YEAR UNDERGROUND STORAGE TANK PERMIT AT,
UNOCAL #6034, 4700 FIRST STREET, LIVERMORE 94550

Dear Mr. Rizvi:


Enclosed is your five year permit to operate a total of three underground storage tanks at the above referenced facility. These tanks are double-walled with fiberglass coating. Their associated piping is also double-walled, with fiberglass exterior.

During an inspection on December 15, 1992, I observed that the product line secondary piping drains through two small holes of a diaphragm fitting, to enter the sump. Sensors are located at the bottom of turbine sumps to detect piping leaks. From close examination the holes appeared partly clogged or may otherwise prevent proper draining for leak detection. To operate under a valid permit, you are required to comply with conditions in Title 23 of the California Code of Regulations (CCR). Based on these requirements, secondary piping must drain a release into the turbine sump adequately to set off the alarm. Additionally, a released substance must be removed from behind the diaphragm before it can leak out to the environment or the tank system is placed back in service.

You may consult the revised Title 23, CCR for additional requirements. To obtain a copy of the regulations, you may contact the State Water Resources Control Board at (916) 657-0917.

Please, do not hesitate to contact me with any questions at (510) 271-4320, Monday through Thursday.

Sincerely,


Kevin Tinsley

Hazardous Materials Specialist

c, Edgar Howell, Chief - files (kt)
Brian Oliva, Hazardous Materials Specialist
Ken Peacock, Unocal Dealer

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



✓ R0258
R0880

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

StIDs 3169 and 2465

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

January 5, 1993

Ron Bock
UNOCAL
P.O.Box 5155
San Ramon, CA 94583

Subject: Response to Letter of December 30, 1992, Summarizing Meeting of November 18, 1992

Dear Mr. Bock:

I have reviewed your letter of December 30, 1992 and have the following comments to clarify additional work which should be considered for the UNOCAL stations in Livermore and in Dublin.

UNOCAL Service Station No. 6034, Livermore (STID 2465) # 4700 1st St. (R0258)

1. The groundwater flow has not been consistently to the northwest. Gradient fluctuates from west to north. Monitoring well MW7 is located northwest of the UST pit, and at times is cross-gradient from the pit. A monitoring well should be installed 20' from the pit in the westerly direction. This well may more accurately define the groundwater contaminant plume.
2. This office is requiring Chevron to take corrective action for the remediation of on- and off-site contamination due to the release of petroleum hydrocarbons from their site.

UNOCAL Service Station No. 5366, Dublin (STID 3169) # 7375 Amador Valley Blvd. (R0880)

1. Annual sampling of monitoring wells MW2, MW3, and MW4 should be performed when groundwater elevation is at its seasonal high, February or March. This should continue until further notice. UNOCAL is not to discontinue sampling of these wells without prior approval from the RWQCB or this office.
2. It is agreed that the extent of contamination in the vicinity of MW1 has not been completely defined. If drilling is not practical due to safety and accessibility reasons, efforts should be made to prevent potential offsite migration of contaminated groundwater. This could involve soil vapor extraction or other feasible alternatives.

Ron Bock
UNOCAL
re: Stations 6034 and 5366
January 5, 1993

Page 2

Should you have any questions or comments, I can be reached at
(510) 271-4530.

Sincerely,



Eva Chu
Hazardous Materials Specialist

cc: Rich Hiett, RWQCB
Edgar Howell/files

unocald2
unocal13

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



R0258

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

StID 2465

October 3, 1992

Tim Ross
UNOCAL
P.O.Box 5155
San Ramon, CA 94583

**Subject: Corrective Action Plan for Unocal Service Station #6034,
4700 First Street, Livermore CA 94550**

Dear Mr. Ross:

This office has reviewed the file for the above referenced site. When 3 USTs were removed in August 1989, soil samples exhibited up to 390 ppm TPH-G. The UST pit was over-excavated until ground water was encountered. The water sample showed 47,000 ppb TPH-G and 260 ppb benzene. Clearly, an unauthorized release of petroleum hydrocarbons has occurred at this site, impacting soil and ground water.

In October 1989 four monitoring wells were installed. Quarterly sampling began in January 1990. To delineate the ground water contamination plume, three additional wells were installed (2 downgradient and 1 cross gradient).

The subsurface investigation performed to date appears to have delineated the extent of soil contamination at the site. Further, based to a large extent on historical gradient information, it appears that ground water contamination has not migrated off-site in the downgradient direction. However, there appears to be a possible contributory source from off-site affecting water quality in upgradient well MW-4 and possibly MW-5.

At this time, pursuant to Section 2721 et seq. of Article 11, Title 23, California Code of Regulations, you are hereby requested to develop a Corrective Action Plan (CAP) for further investigation to identify and evaluate all feasible alternatives for cleanup of groundwater contamination caused by the unauthorized release of petroleum products at this site.

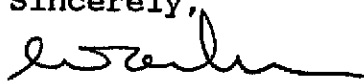
The reference CAP is due in this office **within 45 days of the date of this letter**. Once the proposal is approved, field work should commence within 60 days. A report must be submitted within 45 days after the completion of this phase of work at the site. All reports and proposals must be submitted under seal of a California Registered Geologist, Certified Engineering Geologist, or Registered Civil Engineer.

Tim Ross
Unocal #6034, Livermore
October 3, 1992
Page 2 of 2

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

Should you have any questions about the content of this letter, please contact me at (510) 271-4530.

Sincerely,



Eva Chu
Hazardous Materials Specialist

cc: Eddy So, RWQCB
Mark Thomson, Alameda County District Attorney's Office
Danielle Stefani, Livermore Fire Department
Edgar Howell/files

unocal12

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Director



R0253

Telephone Number: (415)

6

January 17, 1990

Mr. Tim Berger
BSK & Associates
5729-F Sonoma Drive
Pleasanton, CA 94566

RE: SITE SEARCH REQUEST, PROPOSED MOTEL 6, LIVERMORE, CALIFORNIA

Dear Mr. Berger:

The following is in response to your request on information regarding fourteen (14) locations around the site of a proposed Motel 6 construction. As mentioned per our phone conversation, the county's information is from our inspections, underground storage tank activities and requirement for business plans at facilities.

4514 First St., Livermore

Current information from several engineering companies could not detect any underground storage tanks. Analysis by Earth Metrics Inc. of San Mateo will involve soil borings and soil testing as part of their second phase assessment.

(R0560) 4707 First St., Livermore

Mobil Station #10 has two 10,000-gallon tanks for super-unleaded and regular, a 12,000-gallon unleaded tank and a 1000-gallon waste oil tank, all double walled. Inspection in May 1988 revealed a number of deficiencies including:

1. No copy of precision tank tests available at that time;
2. No documentation of leak detection installed in the new tanks;
3. No copies of waste oil and solvent disposal receipts;
4. No EPA ID Number, and
5. No well water analysis results available from the groundwater monitoring wells.

A business plan has been submitted as required under the Health & Safety Code (H&SC), Chapter 6.95.

(R0258) 4700 First St., Livermore

Unocal #6034- A service station with 2-1000 gallon gasoline tanks and a 550-gallon waste oil tank. All three tanks passed precision tank tests done in May 1988. Previously, in 1987, four UGTs were removed: One 10,000-gallon, one 8000-gallon and one 6000-gallon gasoline tank and a 250-gallon waste oil tank. Remediation of tank pit soil contamination was performed by Kaprealian Engineering, Inc. and six monitoring wells were placed to monitor water impact. As mentioned previously, the three tanks currently in place tested tight in May 1988. Business plans have been submitted by this facility.

(R0477) 4904 So. Front St., Livermore

Bill's Chevron, Station #91924 - A service station with three underground fuel tanks and one (1) waste oil tank installed in April 1985. An interim permit was issued to this facility in February 1988.

4977 So. Front St., Livermore

Cal Gas - A propane gas supplier with four above-ground tanks with liquid capacities of 20000, 5722, 6670 and 11,500 gallons. A waste oil tank was removed at the site in 1989.

✓(R02894) 909 Bluebell Dr., Livermore

(R01050) Springtown Arco Service Station has three 10,000-gallon gasoline tanks and one (1) waste oil tank. In an August 1988 inspection, a number of deficiencies were found including:

1. Failure to fill out and submit UGT application forms.
2. Failure to fill out business plan and return within 30 days.
3. All hazardous waste to be disposed of by licensed hazardous waste hauler.

(R0834) 3797 - 1st St., Livermore

PG&E Line Construction - This facility has one 2000-gallon gasoline tank and one 500-gallon waste oil tank. Both tanks tested tight by precision tests in 1988 and have been issued temporary permits. A business plan has been received listing chemicals used at the site. A list of chemicals present, starting from largest volume first includes: mineral oil in transformers, diesel fuel, gasoline, motor oil, fuel additive and hydraulic oil.

Motel 6 Sitesearch
January 17, 1990
Page 3 of 3

The county presently has no information on underground tanks, business plans or generation of hazardous materials on the following addresses:

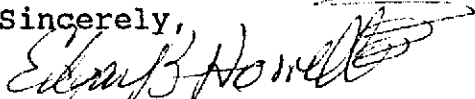
COMPANY NAME	ADDRESS
1. Tech Machine Shop	4749 Las Positas Rd.
2. Tri-valley Tire Service	4908 So. Front St.
3. N/A	5147 So. Front St.
4. Big 4 Equipment Rental	5187 So. Front St.
5. J&L Screen Printing	314 Preston Court
6. MCR Ironworks	542 McGraw Avenue

This is limited to information available to this department and does not reflect any additional information which may be obtained from other agencies.

You will be billed for the provision of this service. Enclosed please find a copy of the form in which we will send to our Billing Unit.

Should you have any questions or require further information, please call Barney Chan at (415) 271-4320.

Sincerely,


Ed Howell III, Acting Chief
Hazardous Materials Division

BC:mam

cc: Files