

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

September 5, 2007

Mr. Bill Borgh
ConocoPhillips Company
76 Broadway
Sacramento, CA 95818

Subject: Fuel Leak Case No. RO0000231 (Global ID #T0600101486), Unocal #0752, 800 Harrison Street, Oakland, CA

Dear Mr. Borgh:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above referenced site including the most recent reports entitled, "Additional Soil and Groundwater Investigation Work Plan" and "Quarterly Status Report – First Quarter 2007" dated March 13, 2006 and April 15, 2007 and prepared on your behalf by TRC. ACEH is concerned with the high concentrations of petroleum hydrocarbon and TPH constituents; in particular, the fuel oxygenate MtBE in soil and groundwater at your site. Furthermore, ACEH is concerned that dissolved phase petroleum hydrocarbon contamination from your site may be impacting the down-gradient site located at 726 Harrison Street and the lack of progress that you have made towards site cleanup.

Your site located at 800 Harrison Street is impacting the downgradient site located at 706 Harrison Street to the extent that corrective action performed at 800 Harrison Street will necessarily affect the site located at 706 Harrison Street. Therefore, ACEH strongly encourages you to participate in the UST Cleanup Fund's commingled plume account.

During our recent correspondence on August 28, 2007 we discussed implementation and reporting for the soil and groundwater investigation proposed by TRC. The sequence of events as they now stand for the site are as follows:

- January 6, 2006 – ACEH correspondence requesting interim remediation and low flow sampling.
- March 3, 2006 – ACEH receives request for extension from TRC for interim remediation Work Plan.
- March 7, 2006– TRC correspondence proposes low flow groundwater sampling Work Plan received by ACEH.
- November 30, 2006 – Meeting with TRC and ConocoPhillips ACEH requests Site Conceptual Model with a revised work plan for offsite soil and groundwater assessment.
- December 7, 2006 – TRC correspondence proposes soil and groundwater investigation Work Plan received by ACEH.
- TRC correspondence continues quarterly monitoring without the implementation of low flow sampling, 1st and 2nd quarter 2007.
- February 7, 2007 – TRC completed an additional soil and groundwater investigation in; however, no report has been submitted to ACEH as of September 1, 2007

- July 31, 2007 – Quarterly status report from TRC suggests that additional groundwater monitoring wells may be needed. TRC will assess remedial alternatives and prepare WP for remediation feasibility, upon completion of additional soil and groundwater investigation.
- August 16, 2007 – Correspondence from ACEH approving implementation of low flow sampling during quarterly groundwater monitoring and sampling.
- Lastly, during our review of the Geotracker electronic database and ACEH ftp site, we were unable to locate the submission for a previously requested Site Conceptual Model. In addition, Please review the following Geotracker submissions; confirmation #7109135508 (Work Plan for Soil and Groundwater Investigation) and #2679227530 (Work Plan for Evaluation of Low-flow Sampling) the submissions are the same report (Work Plan for Evaluation of Low-flow Sampling). Please update Geotracker with the appropriate electronic documents.

As discussed in our recent phone conversation, it has been over 6 months since the soil and groundwater investigation has been completed. Please submit the soil and groundwater investigation report electronically (in pdf format) to both the ACEH ftp site and the SWQCB Geotracker site by September 30, 2007.

Based on ACEH staff review of the case file, we request that you address the following technical comments and send us the reports described below. Please provide 72-hour advance written notification to this office (e-mail preferred to steven.plunkett@acgov.org) prior to the start of field activities.

TECHNICAL REPORT REQUEST

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

- **September 30, 2007** – Soil and Groundwater Investigation Report with Site Conceptual Model

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

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

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

PERJURY STATEMENT

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

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

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

LANDOWNER NOTIFICATION REQUIREMENTS

Pursuant to California Health & Safety Code Section 25297.15, the active or primary responsible party for a fuel leak case must inform all current property owners of the site of cleanup actions or requests for closure. Furthermore, ACEH may not consider any cleanup proposals or requests for case closure without assurance that this notification requirement has been met. Additionally, the active or primary responsible party is required to forward to ACEH a complete mailing list of all record fee title holders to the site.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please be aware that you may be eligible for reimbursement of the costs of investigation from the California Underground Storage Tank Cleanup Fund (Fund). In some cases, a deductible amount may apply. If you believe you meet the eligibility requirements, we strongly encourage you to call the Fund for an application.

Mr. Bill Borgh
September 4, 2007
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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) 383-1767.

Sincerely,



Steven Plunkett
Hazardous Materials Specialist

cc: Mr. Keith Woodburne, TRC, 1590 Solano Way, Suite A, Concord, CA 94520
Mr. Mark Jonas, Conestoga Rover & Associates, 5900 Hollis Street, Suite A, Emeryville, CA 94608
Mr. Robert Kitay, Aqua Science Engineers, West Pintado Road, Danville, CA 94526
Mr. Sunil Ramdass, SWQCB UST Cleanup Fund, 1001 I Street, 17th Floor, Sacramento, CA 95814-2828
Mr. Peter Yee, 1000 San Antonio Avenue, Alameda, CA 94501
Mr. Kin Chan, Chan's Shell, 4328 Edgewood Avenue, Oakland, CA 94602-1316
Mr. Bo Gin, 342 Lester Avenue, Oakland, CA 94606
Donna Drogos, ACEH
Steven Plunkett, ACEH
File

ALAMEDA COUNTY
HEALTH CARE SERVICES

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DAVID J. KEARS, Agency Director



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

August 16, 2007

Mr. Eric Hetrick
ConocoPhillips Company
76 Broadway
Sacramento, CA 95818

Subject: Fuel Leak Case No. RO0000231(Global Id #T0600101486), Unocal #0752, 800 Harrison Street, Oakland, CA

Dear Mr. Hetrick:

Alameda County Environmental Health (ACEH) staff have reviewed the fuel leak case file for the above-referenced site and the document entitled, "Work Plan for Evaluation of Low-flow Purging and Sampling," dated February 28, 2006 and prepare by TRC. Due to the fluctuation of concentrations of dissolved phase petroleum hydrocarbon in onsite monitoring wells, ACEH requested the implementation of low-flow sampling methods. The scope of work as proposed in the Work Plans recommends low-flow purging and sampling during two consecutive quarterly groundwater monitoring events.

ACEH generally agrees with the recommendations in the Work Plan as suggested by TRC. However, prior to the implementation of the Work plan we request 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 steven.plunkett@acgov.org) prior to the start of field activities.

TECHNICAL COMMENTS

1. **Low-Flow Purging and Sampling.** Because of fluctuations in dissolved phase petroleum hydrocarbon contamination in onsite monitoring wells, ACEH recommended the use of low-flow sampling methods. The Work Plan suggests the use of low-flow sampling that allows a drawdown of up to 10% of the screen interval. Currently, all eight monitoring wells have screen interval of between 17 and 20 feet in length, which means that drawdown would be between 1.7 to 2 feet, depending on which well was being sampled. In order to collect a representative sample of formation groundwater from the desired sample depth and to minimize well bore mixing, up to 2 feet of drawdown is not acceptable. EPA guidelines recommend a drawdown of 0.33 feet; however, ideally, during purging drawdown should not exceed 0.1 feet. In order to monitor drawdown during low-flow purging, ACEH requests that water level measurements must be recorded in conjunction with the collection of water quality parameters.

The Work Plan recommends that the intake should be set at approximately two thirds of the water column height. Prior to the implementation of quarterly low-flow groundwater sampling

program, ACEH requests that a thorough review of all soil boring logs must be completed to determine the precise interval where the known source of contamination has been identified, and thus understand contaminant distribution within the screen interval. Subsequently, the intake will be set at a specific depth resulting in the collection of a representative sample of formation groundwater from the impacted interval. Moreover, reproducible groundwater sampling results are a direct consequence of consistent sampling methods and techniques. The intake should be placed at a specific, predetermined depth in each monitoring well for each groundwater sampling event. Consequently, ACEH recommends that dedicated sampling equipment should be installed in each monitoring well during low-flow sampling.

TRC recommendation that in order to corroborate/compare low-flow sampling, conventional sampling will be completed in on-site monitoring wells MW-1 through MW-5. ACEH requests that monitoring wells MW-6, MW-7 and MW-8 be added to the conventional sampling program. Please present the results from the low-flow groundwater sampling according to the schedule presented below.

TECHNICAL REPORT REQUEST

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

- **September 30, 2007** – Third Quarter 2007 Groundwater Monitoring Report

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

ELECTRONIC SUBMITTAL OF REPORTS

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 steven.plunkett@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) 383-1767.

Eric Hetrick
August 14, 2007
Page 4

Sincerely,



Steven Plunkett
Hazardous Materials Specialist

cc: Keith Woodburne
TRC
1590 Solano Way, Suite A
Concord, CA 94520

Mark Trevor
TRC
1590 Solano Way, Suite A
Concord, CA 94520

Donna Drogos, ACEH
Steven Plunkett, ACEH
File

Hwang, Don, Env. Health

From: Hwang, Don, Env. Health
Sent: Friday, March 03, 2006 6:42 PM
To: 'Woodburne, Keith'
Subject: RE: Request for Extension for Submittal of Work Plan for Interim Remediation for Station No. 0752 Oakland

Keith, I concur with your recommendation for postponement of the Work Plan for Interim Remediation, until after the additional investigation is completed. Don

From: Woodburne, Keith [mailto:kwoodburne@TRCSOLUTIONS.com]
Sent: Thursday, March 02, 2006 9:16 AM
To: Hwang, Don, Env. Health
Cc: Shelby.S.Lathrop@conocophillips.com
Subject: Request for Extension for Submittal of Work Plan for Interim Remediation for Station No. 0752 Oakland

Don,

In response to your January 6, 2006 letter, TRC has prepared and is currently reviewing a work plan for evaluation of low-flow purging and sampling for 76 Station No. 0752 located at 800 Harrison Street, Oakland. That work plan will be submitted to the Alameda County Environmental Health (ACEH) on or before the March 6, 2006 deadline.

Based on discussions between ConocoPhillips and ACEH during our November 30, 2006 meeting, TRC is currently preparing the requested Site Conceptual Model (SCM) in the preferred electronic format. Included in the SCM will be the revised work plan for soil and groundwater assessment to address offsite groundwater impacts. That work plan will also include additional onsite assessment to provide information TRC will use to determine the appropriate remedial option and scope for interim remediation of soil and groundwater. TRC expects to have the SCM and Revised Work Plan ready for submittal, as one electronic document, by March 15, 2006.

TRC would therefore recommend submittal of the Work Plan for Interim Remediation be postponed until the additional soil and groundwater assessment can be completed. A quick response from the ACEH on the Work Plan for Additional Soil and Groundwater Assessment (to be submitted on or before March 15, 2006) will allow TRC to complete the additional assessment quickly and obtain the additional site information necessary to evaluate remedial options and prepare a scope of work for interim remediation at the site.

I cannot tell you exactly when the additional assessment would be completed, that would depend on how soon we could get an approval of the work plan and schedule the work. However, I would anticipate a June 30, 2006 deadline for submittal of the Work Plan for Interim Remediation would allow sufficient time to implement the additional assessment and evaluate remediation options for the site.

Let me know if you concur with our recommendation for postponement of the Work Plan for Interim Remediation, until after the additional investigation is completed, and request for extension.

Regards,

Keith Woodburne, R.G.
Senior Project Geologist
TRC
1590 Solano Way, Suite A
Concord, CA 94520
T: 925-688-2488
F: 925-688-0388
C: 925-260-1373

3/3/2006

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

January 6, 2006

Ms. Shelby Lathrop
ConocoPhillips Company
76 Broadway
Sacramento, CA 95818

Subject: Fuel Leak Case # [REDACTED] 51, Unocal #0752, 800 Harrison Street, Oakland, CA

Dear Ms. Lathrop:

Alameda County Environmental Health (ACEH) staff have reviewed the fuel leak case file for the above-referenced site and the document entitled, "Semi-Annual Monitoring Report April through September 2005," dated October 26, 2005. ACEH is concerned with the significant increases in fuel hydrocarbon concentrations that have occurred in several wells across the site. These increases have occurred not only in on-site wells but also in downgradient off-site wells. Quarterly groundwater monitoring data from a fuel leak site south of 8th Street (726 Harrison Street) also indicates that significant increases in fuel hydrocarbon concentrations recently occurred downgradient of your site. Interim remediation is required to address the elevated concentrations of fuel hydrocarbons in soil and groundwater at your site. We request that you address the following technical comments, perform the proposed work, and send us the reports described below.

TECHNICAL COMMENTS

1. Interim Remediation. The elevated concentrations of fuel hydrocarbons currently present on-site and migrating off-site require interim remediation. Please present plans for interim remediation in the Work Plan requested below.
2. Groundwater Monitoring. Groundwater monitoring results for individual wells at the site have frequently increased or decreased several orders of magnitude between sampling events. A recent, but by no means isolated, example of these dramatic fluctuations in results is the concentrations of TPHg and MTBE detected in water samples from well MW-7 between 02/04/2004 and 9/30/2005. For well MW-7, the concentration of MTBE increased from 3.2 µg/L during the 2/14/04 sampling event to 5,100 µg/L during the 8/11/04 sampling event. The concentration of MTBE detected in well MNW-7 subsequently decreased from 8,400 µg/L during the 3/31/2005 sampling event to <0.5 µg/L during the 9/30/2005 sampling event. These abrupt variations in results are not consistent across the site and do not appear to correlate with water level changes or to be seasonal in nature. The hydraulic gradient at this site and in sites immediately south of this site appears to be generally consistent both in magnitude and direction. Therefore, the hydrogeology of the site does not appear to be a likely cause of these dramatic variations in results. The significant temporal variations in results make the data difficult to use for decision-making and create uncertainty in the reliability of the data. In order to assess whether minor variations in sampling techniques

may be introducing variability in monitoring results, we request that you modify your sampling methods. We request that you implement low-flow purging and sampling methods using controlled and consistent sampling methods for all future groundwater monitoring events. Due to the elevated concentrations of fuel hydrocarbons that have been detected, please implement quarterly groundwater monitoring rather than semi-annual groundwater monitoring at this site. In addition, you may wish to vary your sampling techniques and collect multiple groundwater samples from individual wells during a quarterly sampling event to test the effects of varying the purging and sampling methods. Please prepare a work plan, which describes the proposed sampling methods for future groundwater monitoring events.

TECHNICAL REPORT REQUEST

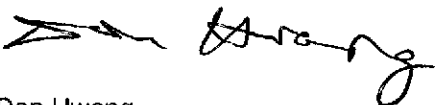
Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

- March 6, 2006 – Work Plan for Groundwater Sampling Methods
- March 6, 2006 – Work Plan for Interim Remediation
- April 30, 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.

If you have any questions, please call me at (510) 567-6746.

Sincerely,



Don Hwang
Hazardous Materials Specialist

cc: Keith Woodburne
TRC
1590 Solano Way, Suite A
Concord, CA 94520

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES

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

April 26, 2001 [REDACTED]

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

**Re: Site Conceptual Model for Tosco Service Station No. 0752, 800 Harrison St.,
Oakland CA 94607**

Dear Mr. De Witt:

Our office has received and reviewed the April 23, 2001 Site Conceptual Model for the referenced service station prepared by Gettler-Ryan. The model concludes that historical spikes in gasoline and MTBE may have been attributed to a faulty spill containment system and exacerbated during the rainy season. The system was replaced in November of 2000. Current TPH concentration since then have shown a decline. Down-gradient sites have confirmed TPH release significantly higher than from this site. These sites, a former Shell and former ARCO station, are in varying stages of investigation and remediation. It appears that no current on-going release is occurring at the site. Your consultant therefore recommends changing back to quarterly groundwater monitoring for the next four quarters, evaluating the trend and if warranted, recommending closure. Our office concurs with this approach. Please insure that the wells do not have any oxygen-releasing compound in them during this monitoring period.

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. J. Douglas, Gettler-Ryan Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568

Mr. K. Chan, 4328 Edgewood Ave., Oakland CA 94602

Mr. R. Kitay, ASE, 208 W. El Pintado, Danville, CA 94526

Mr. Bo Gin, 288 11th St., Oakland CA 94607

Mr. R. Scheele, Cambria Environmental, 1144 65th St., Suite B, Oakland CA 94608

SCM800HarrisonSt

RO 231

#918

QUARTERLY SUMMARY REPORT

4th QUARTER - 2001

(October-December)

TOSCO (76) Service Station No. 0752
800 Harrison Street
Oakland, CA

COUNTY: Alameda

RWQCB OFFICE: San Francisco Bay Region

BACKGROUND: The subject site contains a Tosco service station facility. Two gasoline underground storage tanks (USTs), one waste oil UST, and the product piping were removed from the site in November and December of 1990 during UST replacement activities. The fuel UST pit, waste oil UST pit, and one pump island were subsequently over-excavated in order to remove petroleum hydrocarbon-impacted soil. Approximately 455 cubic yards of soil was removed. Eight monitoring wells have been installed and 12 exploratory borings have been drilled at and in the vicinity of the site. A vapor extraction pilot test was conducted in August of 1995. In November and December of 1996, the waste oil UST was removed, the product lines were replaced and the dispensers upgraded. No free product has been detected in any well to date. The eight existing monitoring wells were monitored and sampled semi-annually until April 2001, when the frequency was changed to quarterly for one year. Groundwater purging from the UST complex was performed in March, 2001. Prepared and submitted the SCM for the site in April 2001.

RECENT QUARTER ACTIVITIES: Prepared and submitted quarterly summary report. Monitor and sample the existing groundwater monitoring wells.

NEXT QUARTER ACTIVITIES: Prepare and submit quarterly summary report.

CHARACTERIZATION/REMEDIAL STATUS:

Soil contamination delineated?	yes _____
Dissolved ground water delineated?	<u>Predominantly</u>
Free product delineated?	<u>none</u>
Amount of groundwater contaminant recovered this quarter/historically?	<u>0/1,600</u> (gals)
Soil remediation in progress?	<u>no</u>
- anticipated start?	<u>N/A</u>
- anticipated completion?	<u>N/A</u>
Dissolved/free product remediation in progress?	<u>No</u>
- anticipated start?	<u>N/A</u>
- anticipated completion?	<u>N/A</u>

Monitoring mode / should look forward & see if closure warranted.

CONSULTANT/CONTRACTOR:

Gettler-Ryan Inc.

R0231

QUARTERLY SUMMARY REPORT

2nd QUARTER - 2001

(April - June)

TOSCO (76) Service Station No. 0752
800 Harrison Street
Oakland, CA

COUNTY: Alameda

RWQCB OFFICE: San Francisco Bay Region

BACKGROUND: The subject site contains a Tosco service station facility. Two gasoline underground storage tanks (USTs), one waste oil UST, and the product piping were removed from the site in November and December of 1990 during UST replacement activities. The fuel UST pit, waste oil UST pit, and one pump island were subsequently over-excavated in order to remove petroleum hydrocarbon-impacted soil. Approximately 455 cubic yards of soil was removed. Eight monitoring wells have been installed and 12 exploratory borings have been drilled at and in the vicinity of the site. A vapor extraction pilot test was conducted in August of 1995. In November and December of 1996, the waste oil UST was removed, the product lines were replaced and the dispensers upgraded. Significant hydrocarbon-impacted soil was not encountered during the upgrade activities. No free product has been detected in any well to date. The eight existing monitoring wells are currently monitored and sampled semi-annually in January and July. Groundwater purging commenced in March, 2001.

RECENT QUARTER ACTIVITIES: Prepared and submitted quarterly summary report. Monitor and sample the existing groundwater monitoring wells. Prepared and submitted the SCM for the site.

NEXT QUARTER ACTIVITIES: Prepare and submit quarterly summary reporting.

CHARACTERIZATION/REMEDIAL STATUS:

Soil contamination delineated? yes
Dissolved ground water delineated? no
Free product delineated? none
Amount of groundwater contaminant recovered
this quarter/historically? 0/1,600 (gals)

Soil remediation in progress? no

- anticipated start? N/A
- anticipated completion? N/A

Dissolved/free product remediation
in progress? Yes

- anticipated start? 3/26/01
- anticipated completion? N/A

CONSULTANT/CONTRACTOR:

Gettler-Ryan Inc.

JUL 23 2001

TRANSMITTAL

TO: Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

DATE: July 19, 2001
PROJ. #: Various
SUBJECT: Quarterly Summary Reports
Various Tosco (76) Sites
Alameda County

FROM:
David J. Vossler
Project Manager
Gettler-Ryan Inc.
1364 N. McDowell Blvd., Suite B2
Petaluma, California 94954

WE ARE SENDING YOU:

COPIES	DATED	DESCRIPTION
1	2 nd Quarter 2001	Quarterly Summary Reports

THESE ARE TRANSMITTED as checked below:

- For review and comment Approved as submitted Resubmit _ copies for approval
- As requested Approved as noted Submit _ copies for distribution
- For approval Return for corrections Return _ corrected prints

COMMENTS:

At the request of Tosco Marketing Company, we are forwarding you copies of the above listed documents for your files. If you have any questions, please call me at (707) 789-3255.

cc: Mr. David De Witt, Tosco Marketing Company
Mr. Barney Chan, Alameda County Health Care Services Agency (SS No. 0752, 3135, 5325)

Ro 231

QUARTERLY SUMMARY REPORT

1st QUARTER - 2001

(January - March)

TOSCO (76) Service Station No. 0752
800 Harrison Street
Oakland, CA

COUNTY: Alameda

RWQCB OFFICE: San Francisco Bay Region

BACKGROUND: The subject site contains a Tosco service station facility. Two gasoline underground storage tanks (USTs), one waste oil UST, and the product piping were removed from the site in November and December of 1990 during UST replacement activities. The fuel UST pit, waste oil UST pit, and one pump island were subsequently over-excavated in order to remove petroleum hydrocarbon-impacted soil. Approximately 455 cubic yards of soil was removed. Eight monitoring wells have been installed and 12 exploratory borings have been drilled at and in the vicinity of the site. A vapor extraction pilot test was conducted in August of 1995. In November and December of 1996, the waste oil UST was removed, the product lines were replaced and the dispensers upgraded. Significant hydrocarbon-impacted soil was not encountered during the upgrade activities. No free product has been detected in any well to date. The eight existing monitoring wells are currently monitored and sampled semi-annually in January and July. Groundwater purging commenced in March, 2001.

RECENT QUARTER ACTIVITIES: Prepared and submitted quarterly summary report. Monitor and sample the existing groundwater monitoring wells. Start groundwater purging from wells MW-1 and OWA.

NEXT QUARTER ACTIVITIES: Prepare and submit quarterly summary reporting. Prepare and submit the SCM for the site.

CHARACTERIZATION/REMEDIAL STATUS:

Soil contamination delineated?	<u>yes</u>
Dissolved ground water delineated?	<u>no</u>
Free product delineated?	<u>none</u>
Amount of groundwater contaminant recovered this quarter/historically?	<u>1,600/1,600</u> (gals)
Soil remediation in progress?	<u>no</u>
- anticipated start?	<u>N/A</u>
- anticipated completion?	<u>N/A</u>
Dissolved/free product remediation in progress?	<u>Yes</u>
- anticipated start?	<u>3/26/01</u>
- anticipated completion?	<u>N/A</u>

CONSULTANT/CONTRACTOR:

Gettler-Ryan Inc.



GETTLER-RYAN INC.

TRANSMITTAL

APR 26 2001

TO: Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

DATE: April 24, 2001
PROJ. #: Various
SUBJECT: Quarterly Summary Reports
Various Tosco (76) Sites
Alameda County

FROM:

David J. Vossler
Project Manager
Gettler-Ryan Inc.
1364 N. McDowell Blvd., Suite B2
Petaluma, California 94954

WE ARE SENDING YOU:

COPIES	DATED	DESCRIPTION
1	1st Quarter 2001	Quarterly Summary Reports

THESE ARE TRANSMITTED as checked below:

- For review and comment
 Approved as submitted
 Resubmit __ copies for approval
 As requested
 Approved as noted
 Submit __ copies for distribution
 For approval
 Return for corrections
 Return __ corrected prints

COMMENTS:

At the request of Tosco Marketing Company, we are forwarding you copies of the above listed documents for your files. If you have any questions, please call me at (707) 789-3251.

cc: Mr. David De Witt, Tosco Marketing Company
Mr. Barney Chan, Alameda County Health Care Services Agency (SS No. 0752, 5325)

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 19, 2000
StID # 918

Mr. Dave DeWitt
Tosco Marketing Co.
2000 Crow Canyon Place, Suite 400
San Ramon, CA 94586

Re: Tosco (Unocal) SS #0752, 800 Harrison St., Oakland CA 94607

Dear Mr. DeWitt:

This letter is to inform you that I am the new case worker for the oversight of the referenced site, taking over from Mr. Larry Seto, of our office. Therefore, please send future reports and address your questions to me. I have briefly reviewed the site history and it appears that the current operator is using second generation fuel tanks, which are located just south of the first generation tanks. The site has been fairly well characterized. Groundwater conditions are characterized by intermittent elevated MTBE concentrations. There is no apparent trend or predictability to these spikes, although it is apparent that this site has, at times, experienced releases of MTBE. Given the fairly consistent south-westerly gradient at the site, it is likely that the former Shell site at 726 Harrison may have been impacted by these releases. It is, however, acknowledged that the former Shell Site, as well as the former ARCO site at 706 Harrison also have experienced MTBE releases of their own. The former ARCO site has operated a soil vapor/air sparge extraction system for several years and is currently requesting concurrence for shutting down the system due to asymptotic removal levels. The former Shell site will be requested to prepare a feasibility study to remediate their elevated MTBE levels.

Because of the numerous potential fuel release sites in the area near this site, it is important to gain as much understanding of each site as possible, otherwise, there will be no way to apportion existing and future responsibility. Therefore, our office requests that you prepare a site conceptual model (SCM) as has been done on other Tosco sites, with the hope that this site's release can be distinguished from the other sites. Cross sectional diagrams over all affected sites may be helpful. You may want to examine site conditions prior to each reported MTBE spike to see if there are explanations for these occurrences.

Please continue semi-annual monitoring as well as the placement of oxygen-releasing compound socks in the impacted wells at the site. Both pre and post purge dissolved oxygen readings should be taken from these wells.

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

Mr. Dave DeWitt
December 19, 2000
StID # 918
800 Harrison St., Oakland 94607
Page 2

Sincerely,



Barney M. Chan
Hazardous Materials Specialist

✓ C: B. Chan, files

Mr. D. Vossler, Gettler-Ryan Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568

Mr. K. Chan, 4328 Edgewood Ave., Oakland CA 94602

Mr. R. Kitay, ASE, 208 W. El Pintado, Danville, CA 94526

Mr. Bo Gin, 288 11th St., Oakland, CA 94607

Mr. R. Scheele, Cambria Environmental, 1144 65th St., Suite B., Oakland CA 94608

Stat800Harrison



76 PRODUCTS COMPANY

ENVIRONMENTAL
PROTECTION

97 FEB 28 AM 10:34

February 26, 1997

Ms. Jennifer Eberle
Alameda County, Health
Care Services Agency
1131 Harbor Bay Pkwy. Rm. 250
Alameda, CA 94502-6577

Subject: STID #918
UNOCAL Service Station #0752
800 Harrison Street
Oakland, California

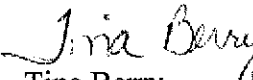
Dear Ms. Eberle:

Per your telephone request, attached please find copies of the non-hazardous waste manifests for the off-hauling of soils at the referenced property. The soils were generated during the recent pumpability project which resulted in upgrades to the dispenser islands and product piping.

The manifests document that approximately **83 cubic yards of soil** were transported to Forward Landfill in Manteca, California by DenBeste Transportation Inc. on December 23, 1996 and January 7, 1997.

Should you have additional questions concerning this letter or project site, please feel free to contact me at 510-277-2321.

Very truly yours,


Tina Berry
Project Manager

cc: File (0752)



FORWARD INCORPORATED

NON-HAZARDOUS WASTE MANIFEST WASTE TREATMENT AND DISPOSAL FACILITY

JOB ACCEPTANCE NO. 564 - 522

Comp 5

TO BE COMPLETED BY THE GENERATOR

GENERATOR
Unocal Marketing

MAILING ADDRESS
PO BOX 5155

CITY, STATE, ZIP
San Ramon Ca 94583

PHONE
510-277-2319

CONTACT PERSON
Tina Berry

SIGNATURE OF AUTHORIZED AGENT / TITLE **DATE**
* Tina Berry for Tina Berry 12/23/96

WASTE TYPE

<input type="checkbox"/> TREATMENT SOIL	<input type="checkbox"/> SLUDGE
<input checked="" type="checkbox"/> DISPOSAL SOIL	<input type="checkbox"/> NON-FRIABLE ASBESTOS
<input type="checkbox"/> CONSTRUCTION SOIL	<input type="checkbox"/> WOOD
	<input type="checkbox"/> ASH
	<input type="checkbox"/> OTHER

GENERATING FACILITY
Unocal Service Station 0752
805 Harrison St
Oakland Ca 9

REQUIRED PERSONAL PROTECTIVE EQUIPMENT

GLOVES GOGGLES RESPIRATOR HARD HAT

TY-VEK OTHER

SPECIAL HANDLING PROCEDURES:

RECEIVING FACILITY

FORWARD INC. LANDFILL
9999 SOUTH AUSTIN ROAD
MANTECA, CALIFORNIA 95336
(209) 982-4298 PHONE
(209) 982-1009 FAX

TO BE COMPLETED BY THE TRUCK DRIVER

NAME
DenBete Transportation Inc

ADDRESS
530 Shields Rd #44

CITY, STATE, ZIP
Windsor Ca 95792

PHONE
707-838-404

SIGNATURE OF AUTHORIZED AGENT OR DRIVER **DATE**
* Patricia A. Hancock 12-23-96

NOTES:
SP46672
FT 82517

TRUCK NUMBER
9

<input type="checkbox"/> END DUMP	<input type="checkbox"/> BOTTOM DUMP	<input type="checkbox"/> TRANSFER
<input type="checkbox"/> ROLL-OFF(S)	<input type="checkbox"/> FLAT-BED	<input type="checkbox"/> VAN <input type="checkbox"/> DRUMS

FACILITY REQUIREMENTS

FORWARD INC. LANDFILL

Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.

REMARKS

FACILITY TICKET NUMBER

SIGNATURE OF AUTHORIZED AGENT **DATE**
* [Signature] 12-23-96

CUBIC YARDS
18

DISPOSAL METHOD:	(TO BE COMPLETED BY FORWARD)				
	DISPOSE	BIO	AERATE	STOCKPILE	OTHER
<input checked="" type="checkbox"/> SOIL					
<input type="checkbox"/> SLUDGE					
<input type="checkbox"/> NON-FRIABLE ASBESTOS					
<input type="checkbox"/> WOOD					
<input type="checkbox"/> ASH					
<input type="checkbox"/> OTHER					

SCHEDULING MUST BE MADE PRIOR TO 4:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE. TO SCHEDULE CALL (209) 982-4298



FORWARD
INCORPORATED

NON-HAZARDOUS WASTE MANIFEST
WASTE TREATMENT AND DISPOSAL FACILITY

JOB ACCEPTANCE NO. -564522 Camp 5

TO BE COMPLETED BY THE GENERATOR

HAULER TRANSPORTER MUST COMPLETE

FACILITY REQUIREMENTS

GENERATOR
Unocal markets

MAILING ADDRESS
PO BOX 5155

CITY, STATE, ZIP
San Ramon, Ca 94583

PHONE
510-277-2345

CONTACT PERSON
Tina Berry

SIGNATURE OF AUTHORIZED AGENT / TITLE | **DATE**
* Indenboro for Tina Berry | 12/3/96

REQUIRED PERSONAL PROTECTIVE EQUIPMENT

GLOVES GOGGLES RESPIRATOR HARD HAT

TY-VEK OTHER

SPECIAL HANDLING PROCEDURES:

WASTE TYPE

TREATMENT SOIL SLUDGE

DISPOSAL SOIL NON-FRIABLE ASBESTOS

CONSTRUCTION SOIL WOOD

 ASH

 OTHER

RECEIVING FACILITY

FORWARD INC. LANDFILL
9999 SOUTH AUSTIN ROAD
MANTECA, CALIFORNIA 95336
(209) 982-4298 PHONE
(209) 982-1009 FAX

GENERATING FACILITY
Unocal Service Station 0752
800 Harrison St
Oakland, Ca

NAME
Densdale Transportation Inc

ADDRESS
930 Shubel Rd #44

CITY, STATE, ZIP
Windsor Ca 95452

PHONE
714-838-1407

SIGNATURE OF AUTHORIZED AGENT OR DRIVER | **DATE**
* John Saban | 12-23-96

NOTES:
TRK-SP44231
TRL 9/20734

TRUCK NUMBER
10

END DUMP **BOTTOM DUMP** **TRANSFER**

ROLL-OFF(S) **FLAT-BED** **VAN** **DRUMS**

FORWARD INC. LANDFILL

Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.

REMARKS

FACILITY TICKET NUMBER

SIGNATURE OF AUTHORIZED AGENT | **DATE**
* [Signature] |

CUBIC YARDS
18

DISPOSAL METHOD:	(TO BE COMPLETED BY FORWARD)				
	DISPOSE	BIO	AERATE	STOCKPILE	OTHER
<input checked="" type="checkbox"/> SOIL	<input checked="" type="checkbox"/>				
<input type="checkbox"/> SLUDGE					
<input type="checkbox"/> NON-FRIABLE ASBESTOS					
<input type="checkbox"/> WOOD					
<input type="checkbox"/> ASH					
<input type="checkbox"/> OTHER					

SCHEDULING MUST BE MADE PRIOR TO 4:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE. TO SCHEDULE CALL (209) 982-4298

JOB ACCEPTANCE NO.

564 - 522

Comp S

TO BE COMPLETED BY THE GENERATOR	GENERATOR <i>Unocal Marketing</i>		REQUIRED PERSONAL PROTECTIVE EQUIPMENT <input type="checkbox"/> GLOVES <input type="checkbox"/> GOGGLES <input type="checkbox"/> RESPIRATOR <input type="checkbox"/> HARD HAT <input type="checkbox"/> TY-VEK <input type="checkbox"/> OTHER																																							
	MAILING ADDRESS <i>PO Box 5155</i>		SPECIAL HANDLING PROCEDURES:																																							
	CITY, STATE, ZIP <i>San Ramon CA 94583</i>																																									
	PHONE <i>910-277-2347</i>																																									
CONTACT PERSON <i>Tina Berry</i>		SIGNATURE OF AUTHORIZED AGENT / TITLE <i>* Tina Berry</i>		DATE <i>12/23/96</i>																																						
WASTE TYPE <input type="checkbox"/> TREATMENT SOIL <input type="checkbox"/> SLUDGE <input checked="" type="checkbox"/> DISPOSAL SOIL <input type="checkbox"/> NON-FRIABLE ASBESTOS <input type="checkbox"/> CONSTRUCTION SOIL <input type="checkbox"/> WOOD <input type="checkbox"/> ASH <input type="checkbox"/> OTHER		RECEIVING FACILITY FORWARD INC. LANDFILL 9999 SOUTH AUSTIN ROAD MANTECA, CALIFORNIA 95336 (209) 982-4298 PHONE (209) 982-1009 FAX																																								
GENERATING FACILITY <i>Unocal Service Station 0752</i> <i>800 Harrison St</i> <i>Oakland, CA</i>		NOTES: <i>SP 79567</i> <i>6710099</i>																																								
NAME <i>Dennis Hechans Protator Jr</i>						TRUCK NUMBER <i>20</i>																																				
ADDRESS <i>920 Shields Rd #44</i>						END DUMP <input type="checkbox"/> BOTTOM DUMP <input type="checkbox"/> TRANSFER <input type="checkbox"/>																																				
CITY, STATE, ZIP <i>Windsor CA 95492</i>						ROLL-OFF(S) <input type="checkbox"/> FLAT-BED <input type="checkbox"/> VAN <input type="checkbox"/> DRUMS <input type="checkbox"/>																																				
PHONE <i>707-838-1402</i>		SIGNATURE OF AUTHORIZED AGENT OR DRIVER <i>* Russell D'ell</i>		DATE <i>12-23-96</i>																																						
FACILITY REQUIREMENTS	FORWARD INC. LANDFILL		CUBIC YARDS <i>18</i>																																							
	<p>Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.</p>		DISPOSAL METHOD: (TO BE COMPLETED BY FORWARD)																																							
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			<input checked="" type="checkbox"/> SOIL	<input checked="" type="checkbox"/> DISPOSE	<input type="checkbox"/> BIO	<input type="checkbox"/> AERATE	<input type="checkbox"/> STOCKPILE	<input type="checkbox"/> OTHER																																		
			<input type="checkbox"/> SLUDGE																																							
<input type="checkbox"/> NON-FRIABLE ASBESTOS																																										
<input type="checkbox"/> WOOD																																										
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<input type="checkbox"/> OTHER																																										
REMARKS:																																										
FACILITY TICKET NUMBER																																										
SIGNATURE OF AUTHORIZED AGENT <i>* [Signature]</i>		DATE <i>12-23-96</i>																																								

JOB ACCEPTANCE NO.

564 - 522

Lamp S

TO BE COMPLETED BY THE GENERATOR

GENERATOR
 Unocal Marketing
MAILING ADDRESS
 PO BOX 5155
CITY STATE ZIP
 San Ramon CA 94583
PHONE
 510-277-2349
CONTACT PERSON
 Tuna Berry
SIGNATURE OF AUTHORIZED AGENT / TITLE **DATE**
 * Unocal for Tuna Berry 12/23/96

REQUIRED PERSONAL PROTECTIVE EQUIPMENT
 GLOVES GOGGLES RESPIRATOR HARD HAT
 TY-VEK OTHER

SPECIAL HANDLING PROCEDURES:

WASTE TYPE

<input type="checkbox"/> TREATMENT SOIL	<input type="checkbox"/> SLUDGE
<input checked="" type="checkbox"/> DISPOSAL SOIL	<input type="checkbox"/> NON-FRIABLE ASBESTOS
<input type="checkbox"/> CONSTRUCTION SOIL	<input type="checkbox"/> WOOD
	<input type="checkbox"/> ASH
	<input type="checkbox"/> OTHER

RECEIVING FACILITY

FORWARD INC. LANDFILL
 9999 SOUTH AUSTIN ROAD
 MANTECA, CALIFORNIA 95336
 (209) 982-4298 PHONE
 (209) 982-1009 FAX

GENERATING FACILITY
 Unocal Service Station 0752
 800 HAMISON ST
 OAKLAND, CA

TRANSPORTER LIABILITY MUST BE COMPLETED BY THE TRANSPORTER

NAME
 Den Bestor Transportation Inc
ADDRESS
 935 Shiloh Rd #44
CITY STATE ZIP
 Woodland CA 95692
PHONE
 707-838-1487
SIGNATURE OF AUTHORIZED AGENT OR DRIVER **DATE**
 * Richard Haman 12-23-96

NOTES:
 9C15560
 FT82518

TRUCK NUMBER
 975-45

<input checked="" type="checkbox"/> END DUMP	<input type="checkbox"/> BOTTOM DUMP	<input type="checkbox"/> TRANSFER
<input type="checkbox"/> ROLL-OFF(S)	<input type="checkbox"/> FLAT-BED	<input type="checkbox"/> VAN
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> DRUMS

FACILITY REQUIREMENTS

FORWARD INC. LANDFILL

Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.

REMARKS:

FACILITY TICKET NUMBER

SIGNATURE OF AUTHORIZED AGENT **DATE**
 * [Signature] 12-23-96

CUBIC YARDS
 105

DISPOSAL METHOD: (TO BE COMPLETED BY FORWARD)

	DISPOSE	BIO	AERATE	STOCKPILE	OTHER
<input checked="" type="checkbox"/> SOIL					
<input type="checkbox"/> SLUDGE					
<input type="checkbox"/> NON-FRIABLE ASBESTOS					
<input type="checkbox"/> WOOD					
<input type="checkbox"/> ASH					
<input type="checkbox"/> OTHER					

SCHEDULING MUST BE MADE PRIOR TO 4:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE. TO SCHEDULE CALL (209) 982-4298



NON-HAZARDOUS WASTE MANIFEST
WASTE TREATMENT AND DISPOSAL FACILITY

JOB ACCEPTANCE NO.

564522

1-Yard
Stockpile

TO BE COMPLETED BY THE GENERATOR

GENERATOR
Unocal Marketing
MAILING ADDRESS
P.O. Box 5155
CITY, STATE, ZIP
Sun Ramon, CA 94583
PHONE
510-277-2349
CONTACT PERSON
Tina Berry
SIGNATURE OF AUTHORIZED AGENT / TITLE
* [Signature] for Tina Berry
DATE
12/23/96

REQUIRED PERSONAL PROTECTIVE EQUIPMENT
 GLOVES GOGGLES RESPIRATOR HARD HAT
 TY-VEK OTHER

SPECIAL HANDLING PROCEDURES:

WASTE TYPE
 TREATMENT SOIL
 DISPOSAL SOIL
 CONSTRUCTION SOIL
 SLUDGE
 NON-FRIABLE ASBESTOS
 WOOD
 ASH
 OTHER

RECEIVING FACILITY
 FORWARD INC. LANDFILL
 9999 SOUTH AUSTIN ROAD
 MANTECA, CALIFORNIA 95336
 (209) 982-4298 PHONE
 (209) 982-1009 FAX

GENERATING FACILITY
 Unocal Service Station 0752
 800 Harrison ST
 Oakland CA

TRANSPORTER/HAULER MUST COMPLETE

NAME
Den Beste Transportation Inc
ADDRESS
930 Shuloh Rd #44
CITY, STATE, ZIP
Windsor, CA 95492
PHONE
707-838-1407
SIGNATURE OF AUTHORIZED AGENT OR DRIVER
* Terry Cain
DATE
12-23-96

NOTES:
CP32406
TRUCK NUMBER
16

END DUMP BOTTOM DUMP TRANSFER
 ROLL-OFF(S) FLAT-BED VAN DRUMS

FACILITY REQUIREMENTS

FORWARD INC. LANDFILL
 Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.
 REMARKS
 FACILITY TICKET NUMBER
 SIGNATURE OF AUTHORIZED AGENT
 * [Signature]
 DATE
12-23-96

CUBIC YARDS: 1

DISPOSAL METHOD:	(TO BE COMPLETED BY FORWARD)	DISPOSE	BIO	AERATE	STOCKPILE	OTHER
<input checked="" type="checkbox"/> SOIL						
<input type="checkbox"/> SLUDGE						
<input type="checkbox"/> NON-FRIABLE ASBESTOS						
<input type="checkbox"/> WOOD						
<input type="checkbox"/> ASH						
<input type="checkbox"/> OTHER						

SCHEDULING MUST BE MADE PRIOR TO 4:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE. TO SCHEDULE CALL (209) 982-4298

FORWARD INC.

NON-HAZARDOUS WASTE MANIFEST WASTE TREATMENT AND DISPOSAL FACILITY

JOB ACCEPTANCE NO. 564522

TO BE COMPLETED BY THE GENERATOR

GENERATOR
Unocal Marketing
MAILING ADDRESS
P.O. Box 5155
CITY, STATE, ZIP
San Ramon, Ca. 94583
PHONE
510-277-2349
CONTACT PERSON
Tina Berry
SIGNATURE OF AUTHORIZED AGENT
** Tina Berry for Unocal 1/7/97*

REQUIRED PERSONAL PROTECTIVE EQUIPMENT
 GLOVES GOGGLES RESPIRATOR HARD HAT
 TY-VEK OTHER

SPECIAL HANDLING PROCEDURES:

WASTE TYPE

<input type="checkbox"/> TREATMENT SOIL	<input type="checkbox"/> SLUDGE
<input checked="" type="checkbox"/> DISPOSAL SOIL	<input type="checkbox"/> NON-FRIABLE ASBESTOS
<input type="checkbox"/> CONSTRUCTION SOIL	<input type="checkbox"/> WOOD
	<input type="checkbox"/> ASH
	<input type="checkbox"/> OTHER

RECEIVING FACILITY

FORWARD INC. LANDFILL
9999 SOUTH AUSTIN ROAD
MANTECA, CALIFORNIA 95336
(209) 982-4298 PHONE
(209) 982-1009 FAX

GENERATING FACILITY
Unocal Service Station 0752
800 Harrison St.
Oakland CA.

TRANSPORTER
HAULER MUST COMPLETE

NAME
Den Beste Transportation Inc.
ADDRESS
930 Shiloh rd. #44
CITY, STATE, ZIP
Windsor CA. 95492
PHONE
707-838-1407
SIGNATURE OF AUTHORIZED AGENT OR DRIVER **DATE**
** [Signature] 1-7-97*

NOTES:
CP32406

TRUCK NUMBER
16

END DUMP <input type="checkbox"/>	BOTTOM DUMP <input type="checkbox"/>	TRANSFER <input type="checkbox"/>
ROLL-OFF(S) <input checked="" type="checkbox"/>	FLAT-BED <input type="checkbox"/>	VAN <input type="checkbox"/>
	DRUMS <input type="checkbox"/>	

FACILITY REQUIREMENTS

FORWARD INC. LANDFILL

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REMARKS

FACILITY TICKET NUMBER

SIGNATURE OF AUTHORIZED AGENT **DATE**
** [Signature] 1-7-97*

CUBIC YARDS
10

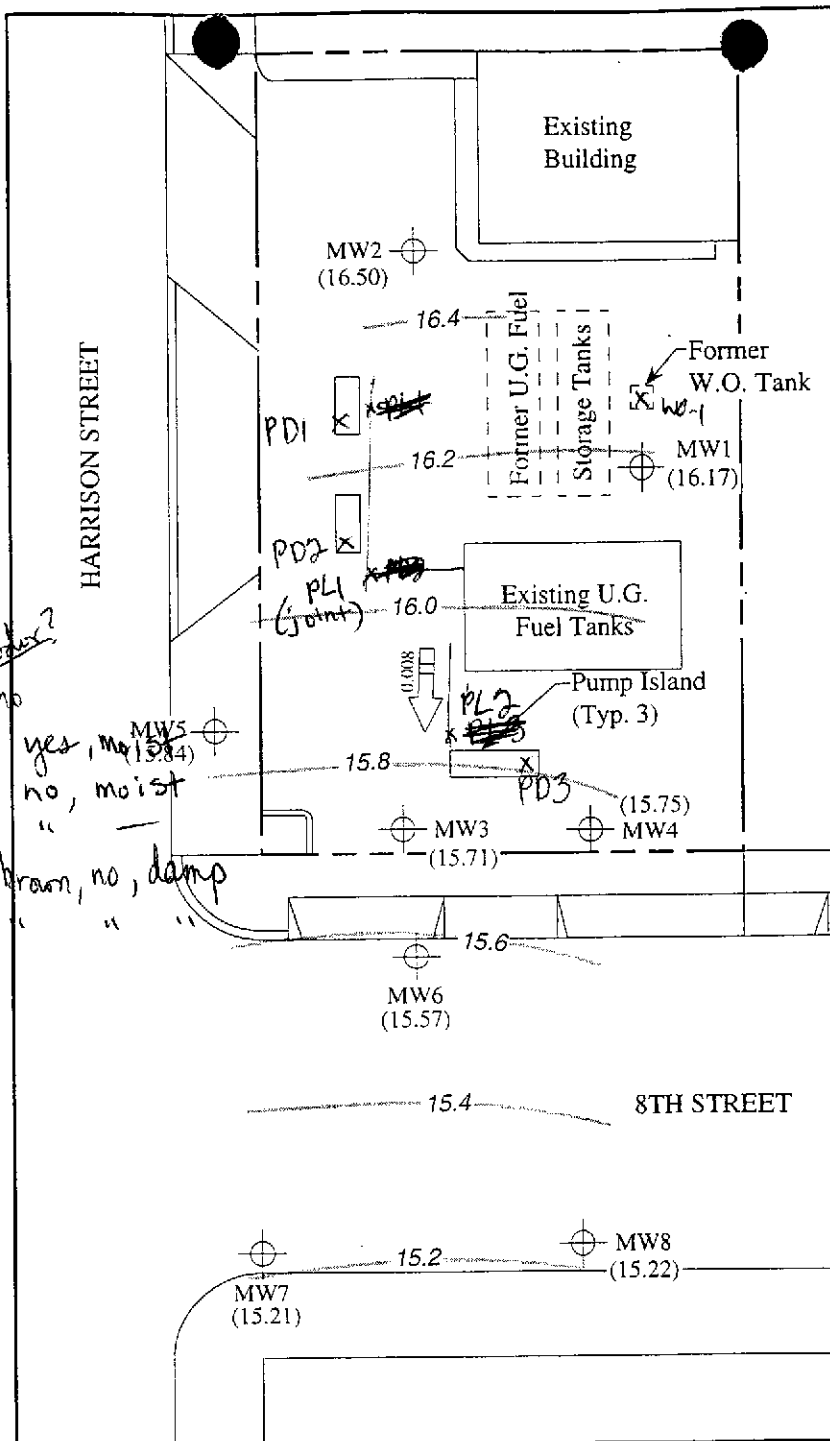
DISPOSAL METHOD:	(TO BE COMPLETED BY FORWARD)				
DISPOSE	BIO	AERATE	STOCKPILE	OTHER	
<input checked="" type="checkbox"/> SOIL					
<input type="checkbox"/> SLUDGE					
<input type="checkbox"/> NON-FRIABLE ASBESTOS					
<input type="checkbox"/> WOOD					
<input type="checkbox"/> ASH					
<input type="checkbox"/> OTHER					

SCHEDULING MUST BE MADE PRIOR TO 4:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE TO SCHEDULE CALL (209) 982-4298

Unocal Corporation
2000 Crow Canyon Place, Suite 400
San Ramon, California 94583
Telephone (510) 277-2321
Facsimile (510) 277-2309

UNOCAL 

Tina R. Berry
Geologist
Northern Region
Corporate Environmental
Remediation & Technology

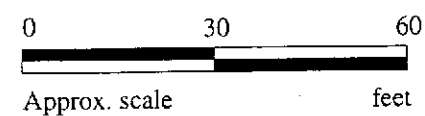


11-26-96 samples:

MW1 9.5' silty sand, brown, no
 PD1 5.5' sand, "
 PD2 3.5' " "
 PD3 ~3' " "
 PL1 3' silty sand, brown, no, damp
 PL2 3.5' " " " "

LEGEND

- Monitoring well
- Ground water elevation in feet above Mean Sea Level
- Direction of ground water flow with approximate hydraulic gradient
- Contours of ground water elevation



POTENTIOMETRIC SURFACE MAP FOR THE JULY 9, 1996 MONITORING EVENT



UNOCAL SERVICE STATION #0752
800 HARRISON STREET
OAKLAND, CALIFORNIA

FIGURE
1

**ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
 DEPARTMENT OF ENVIRONMENTAL HEALTH
 ENVIRONMENTAL PROTECTION DIVISION
 1131 HARBOR BAY PARKWAY, RM 250
 ALAMEDA, CA 94502-6577
 PHONE # 510/567-6700
 FAX # 510/337-9335**

J. Eberle

Project Specialist

ACCEPTED
 Underground Storage Tank Closure Permit Application
 Alameda County Division of Hazardous Materials
 1131 Harbor Bay Parkway, Suite 250
 Alameda, CA 94502-6577

These abatement/removal plans have been reviewed and found to be acceptable and capable of meeting the requirements of State and local health laws. Changes to your closure plans indicated by the Department are to assure compliance with State and local laws. The project proposed health is to be released for the use of any regulated building pursuant to the abatement/removal plan.
 The copy of the accepted plans must be on file and available to all contractors and craftsmen involved with the removal.
 Any change or alteration of these plans and specifications must be submitted to this Department and to the local and building inspections Department to determine if such changes meet the requirements of State and local laws. Notify this Department at least 72 hours prior to the indicated required inspections.

- Removal of Tank(s) and Piping
- Sampling
- Final Inspection

Because of a) permit to operate, b) permanent site closure, is dependent on compliance with accepted plans and all applicable laws and regulations.

THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS.

Contact Specialist: *J. Eberle 11-19-96*

See comments p. 5

UNDERGROUND TANK CLOSURE PLAN

* * * Complete according to attached instructions * * *

1. Name of Business Chingtown 76 # 0752
 Business Owner or Contact Person (PRINT) Rensarsson /o R.H. Lee & Assoc.
2. Site Address 800 Harrison Street
 City Oakland Zip 94607 Phone (510) 893-2356
3. Mailing Address 800 Harrison Street
 City Oakland Zip 94607 Phone (510) 893-2356
4. Property Owner UNOCAL 76 Products Co.
 Business Name (if applicable) _____
 Address 2000 Crow Canyon Pl. Suite 400
 City, State San Ramon, CA Zip 94583
5. Generator name under which tank will be manifested
UNOCAL 76 Products Co.
 EPA ID# under which tank will be manifested CA 0000000576

6. Contractor Bulch - Tom Evernden

Address _____

City Milpitas Phone _____

License Type Haz / A+B ID# 396575

*Effective January 1, 1992, Business and Professional Code Section 7058.7 requires prime contractors to also hold Hazardous Waste Certification issued by the State Contractors License Board.

7. Consultant (if applicable) Robert H. Lee & Assoc.

Address 1650 Howe Ave. Suite 504

City, State Sacramento, CA 95825 Phone (916) 446-4003

8. Main Contact Person for Investigation (if applicable)

Name Bob Boost Title Environmental Compliance

Company UNOCAL 76 Products Co.

Phone (510) 277-2334

9. Number of underground tanks being closed with this plan 1

Length of piping being removed under this plan _____

Total number of underground tanks at this facility (**confirmed with owner or operator) 3 - (1) waste oil tank to be removed

10. State Registered Hazardous Waste Transporters/Facilities (see instructions).

** Underground storage tanks must be handled as hazardous waste **

a) Product/Residual Sludge/Rinsate Transporter

Name Erickson, Inc. EPA I.D. No. CA0009466392

Hauler License No. 0019 License Exp. Date 5-31-97

Address 255 Parc Blvd.

City Richmond State CA Zip 94801

b) Product/Residual Sludge/Rinsate Disposal Site

Name Erickson, Inc. EPA ID# CA0009466392

Address 255 Parc Blvd.

City Richmond State CA Zip 94801

c) Tank and Piping Transporter

Name Erickson, Inc. EPA I.D. No. CA0009466392
Hauler License No. 0019 License Exp. Date _____
Address 255 Parr Blvd.
City Richmond State CA Zip 94801

d) Tank and Piping Disposal Site

Name Erickson, Inc. EPA I.D. No. CA0001466392
Address 255 Parr Blvd.
City Richmond State CA Zip 94801

11. Sample Collector

Name Tim Ross
Company Kaprealian Engineering
Address P.O. Box 913
City Benicia State CA Zip 94510 Phone (510)402-5100

12. Laboratory

Name Saguoa Analytical Labs
Address 480 Chesapeake Dr.
City Redwood City State CA Zip 94063
State Certification No. _____

13. Have tanks or pipes leaked in the past? Yes [] No [X] Unknown []

If yes, describe. _____

14. Describe methods to be used for rendering tank(s) inert:

520 gal waste oil tank - 10 lbs CO₂ dry ice placed in tank thru fill opening, then triple rinsed per spec sheet J-0.

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

The Bay Area Air Quality Management District, 415/771-6000, along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of a combustible gas indicator to verify tank inertness. It is the contractor's responsibility to bring a working combustible gas indicator on-site to verify that the tank is inert.

15. Tank History and Sampling Information *** (see instructions) ***

Tank		Material to be sampled (tank contents, soil, groundwater)	Location and Depth of Samples
Capacity	Use History include date last used (estimated)		
520 gal waste oil (to be removed)	Installed 1990. Station stopped doing oil changes in 1994.	Residual waste oil soil below tank	tank pit to a depth of 2' below tank bottom

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

Excavated/Stockpiled Soil

Stockpiled Soil Volume (estimated)

5 cubic yards

Sampling Plan

One composite sample, consisting of four individual brass sampling cylinders will be analyzed for every 50 cubic yards of soil. Samples will be analyzed for TPHG and BTXE. If detectable amounts of petroleum hydrocarbons are found, samples will be tested for lead.

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

Will the excavated soil be returned to the excavation immediately after tank removal? [] yes [X] no [] unknown

If yes, explain reasoning _____

If unknown at this point in time, please be aware that excavated soil may not be returned to the excavation without prior approval from Alameda County. This means that the contractor, consultant, or responsible party must communicate with the Specialist IN ADVANCE of backfilling operations.

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

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

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

Contaminant Sought	EPA or Other Sample Preparation Method Number	EPA or Other Analysis Method Number	Method Detection Limit
TPH G ✓ & BTXE ✓ W.O. TANK	GCFID 5030, WATER GCFID 5030, 3810, SOIL	40D, 8015, 8020, OR 8240, SOIL 602 OR 624, WATER	SOIL WATER 1.0 50.0 0.0005 0.5
TPH D ✓	GCFID 5030, WATER GCFID 5030, 3810, SOIL	GCFID 3550, SOIL GCFID 3510, WATER	1.0 50.0
TOG ✓	412.1	SM 5520 D&E, SOIL SM 5520 A&E, WATER	50.0 5,000.0
CL HC ✓		8010, 8240, SOIL 601 OR 624, WATER	
TESTS WILL BE RUN FOR THE FOLLOWING:			
Cd, Cr, Pb, Zn, (N)	7130, 7197, 7421, 7950	ICAP OR AA	
PEP, PCB, PNA&CREOSITE	8880	8270	

if O + G > 100 ppm
do 8270

18. Submit Worker's Compensation Certificate copy

Name of Insurer _____

19. Submit Plot Plan ***** (See Instructions) *****

20. Enclose Deposit (See Instructions)

21. Report any leaks or contamination to this office within 5 days of discovery.

The written report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report (ULR) form.

22. Submit a closure report to this office within 60 days of the tank removal. The report must contain all information listed in item 22 of the instructions.

23. Submit State (Underground Storage Tank Permit Application) Forms A and B (one B form for each UST to be removed) (mark box 8 for "tank removed" in the upper right hand corner)

I declare that to the best of my knowledge and belief that the statements and information provided above are correct and true.

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

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

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

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

CONTRACTOR INFORMATION

Name of Business _____

Name of Individual _____

Signature _____ Date _____

PROPERTY OWNER OR MOST RECENT TANK OPERATOR (Circle one)

Name of Business UNOCAL 76 Products Co.

Name of Individual Ron Sorenson for UNOCAL

Signature Ron Sorenson Date 11/8/90

W / Rbt H. Lee

18. Submit Worker's Compensation Certificate copy

Name of Insurer _____

19. Submit Plot Plan ***** (See Instructions) *****

20. Enclose Deposit (See Instructions)

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CONTRACTOR INFORMATION

Name of Business Balch Petroleum

Name of Individual Dave Johnson

Signature [Signature] Date _____

PROPERTY OWNER OR MOST RECENT TANK OPERATOR (Circle one)

Name of Business 76 Products Company

Name of Individual Bill Buerster

Signature [Signature] Date Nov. 19, 1996

INSTRUCTIONS

General Instructions

- * Three (3) copies of this plan plus attachments and a deposit must be submitted to this Department.
- * Any cutting into tanks requires local fire department approval.
- * One complete copy of your approved plan must be at the construction site at all times; a copy of your approved plan must also be sent to the landowner.
- * State of California Permit Application Forms A and B are to be submitted to this office. One Form A per site, one Form B for each removed tank.

Line Item Specific Instructions

2. SITE ADDRESS
Address at which closure is taking place.
5. EPA I.D. NO. under which the tanks will be manifested
EPA I.D. numbers may be obtained from the State Department of Toxic Substances Control, 916/324-1781.
6. CONTRACTOR
Prime contractor for the project.
10. STATE REGISTERED HAZARDOUS WASTE TRANSPORTERS/FACILITIES
 - a) All residual liquids and sludges are to be removed from tanks before tanks are inerted.
 - c) Tanks must be hauled as hazardous waste.
 - d) This is the place where tanks will be taken for cleaning.
15. TANK HISTORY AND SAMPLING INFORMATION

Use History - This information is essential and must be accurate. Include tank installation date, products stored in the tank, and the date when the tank was last used.

Material to be sampled - e.g. water, oil, sludge, soil, etc.

Location and depth of samples - e.g. beneath the tank a maximum of two feet below the native soil/backfill interface, side wall at the high water mark, etc.

16. CHEMICAL METHODS AND ASSOCIATED DETECTION LIMITS
See attached Table 2.

17. SITE HEALTH AND SAFETY PLAN

A site specific Health and Safety plan must be submitted. We advocate the site health and safety plan include the following items, at a minimum:

- a) The name and responsibilities of the site health and safety officer;
- b) An outline of briefings to be held before work each day to appraise employees of site health and safety hazards;
- c) Identification of health and safety hazards of each work task. Include potential fire, explosion, physical, and chemical hazards;
- d) For each hazard, identify the action levels (contaminant concentrations in air) or physical conditions which will trigger changes in work habits to ensure workers are not exposed to unsafe chemical levels or physical conditions;
- e) Description of the work habit changes triggered by the above action levels or physical conditions;
- f) Frequency and types of air and personnel monitoring - along with the environmental sampling techniques and instrumentation - to be used to detect the above action levels. Include instrumentation maintenance and calibration methods and frequencies;
- g) Confined space entry procedures (if applicable);
- h) Decontamination procedures;
- i) Measures to be taken to secure the site, excavation and stockpiled soil during and after work hours (e.g. barricades, caution tape, fencing, trench plates, plastic sheeting, security guards, etc.);
- j) Spill containment/emergency/contingency plan. Be sure to include emergency phone numbers, the location of the phone nearest the site, and directions to the hospital nearest the site;
- k) Documentation that all site workers have received the appropriate OSHA approved trainings and participate in appropriate medical surveillance per 29 CFR 1910.120; and
- l) A page for employees to sign acknowledging that they have read and will comply with the site health and safety plan.

The safety plan must be distributed to all employees and contractors working in hazardous waste operations on site. A complete copy of the site health and safety plan along with any standard operating procedures shall be on site and accessible at all times.

NOTE: These requirements are excerpts from 29 CFR Part 1910.120(b)(4), Hazardous Waste Operations and Emergency Response Final Rule, March 6, 1989. Safety plans of certain underground tank sites may need to meet the complete requirements of this Rule.

19. PLOT PLAN

The plan should consist of a scaled view of the facility at which the tank(s) are located and should include the following information:

- a) Scale;
- b) North Arrow;
- c) Property Lines;
- d) Location of all Structures;
- e) Location of all relevant existing equipment including tanks and piping to be removed and dispensers;
- f) Streets;
- g) Underground conduits, sewers, water lines, utilities;
- h) Existing wells (drinking, monitoring, etc.);
- i) Depth to ground water; and
- j) All existing tank(s) and piping in addition to the tank(s) being removed.

20. DEPOSIT

A deposit, payable to "County of Alameda" for the amount indicated on the Alameda County Underground Storage Tank Fee Schedule, must accompany the plans.

21. Blank Unauthorized Leak/Contamination Site Report forms may be obtained in limited quantities from this office or from the San Francisco Bay Regional Water Quality Control Board (510/286-1255). Larger quantities may be obtained directly from the State Water Resources Control Board at (916) 739-2421.

22. TANK CLOSURE REPORT

The tank closure report should contain the following information:

- a) General description of the closure activities;
- b) Description of tank, fittings and piping conditions. Indicate tank size and former contents; note any corrosion, pitting, holes, etc.;

- c) Description of the excavation itself. Include the tank and excavation depth, a log of the stratigraphic units encountered within the excavation, a description of root holes or other potential contaminant pathways, the depth to any observed ground water, descriptions and locations of stained or odor-bearing soil, and descriptions of any observed free product or sheen;
- d) Detailed description of sampling methods; i.e. backhoe bucket, drive sampler, bailer, bottle(s), sleeves
- e) Description of any remedial measures conducted at the time of tank removal;
- f) To-scale figures showing the excavation size and depth, nearby buildings, sample locations and depths, and tank and piping locations. Include a copy of the plot plan prepared for the Tank Closure Plan under item 19;
- g) Chain of custody records;
- h) Copies of signed laboratory reports;
- i) Copies of "TSDF to Generator" Manifests for all hazardous wastes hauled offsite (sludge, rinsate, tanks and piping, contaminated soil, etc.); and
- j) Documentation of the disposal of/and volume and final destination of all non-manifested contaminated soil disposed offsite.

TABLE #2
RECOMMENDED MINIMUM VERIFICATION ANALYSES FOR
UNDERGROUND TANK LEAKS

<u>HYDROCARBON LEAK</u>	<u>SOIL ANALYSIS</u>	<u>WATER ANALYSIS</u>
Unknown Fuel	TPH G GCFID(5030)	TPH G GCFID(5030)
	TPH D GCFID(3550)	TPH D GCFID(3510)
	BTX&E 8020 or 8240	BTX&E 602, 624 or 8260
	TPH AND BTX&E 8260	
Leaded Gas	TPH G GCFID(5030)	TPH G GCFID(5030)
	BTX&E 8020 OR 8240	BTX&E 602 or 624
	TPH AND BTX&E 8260	TOTAL LEAD AA
	TOTAL LEAD AA	
-----Optional-----		
	TEL DHS-LUFT	TEL DHS-LUFT
	EDB DHS-AB1803	EDB DHS-AB1803
Unleaded Gas	TPH G GCFID(5030)	TPH G GCFID(5030)
	BTX&E 8020 or 8240	BTX&E 602, 624 or 8260
	TPH AND BTX&E 8260	
Diesel, Jet Fuel and Kerosene	TPH D GCFID(3550)	TPH D GCFID(3510)
	BTX&E 8020 or 8240	BTX&E 602, 624 or 8260
	TPH AND BTX&E 8260	
Fuel/Heating Oil	TPH D GCFID(3550)	TPH D GCFID(3510)
	BTX&E 8020 or 8240	BTX&E 602, 624 or 8260
	TPH AND BTX&E 8260	
Chlorinated Solvents	CL HC 8010 or 8240	CL HC 601 or 624
	BTX&E 8020 or 8240	BTX&E 602 or 624
	CL HC AND BTX&E 8260	CL HC AND BTX&E 8260
Non-chlorinated Solvents	TPH D GCFID(3550)	TPH D GCFID(3510)
	BTX&E 8020 or 8240	BTX&E 602 or 624
	TPH AND BTX&E 8260	TPH and BTX&E 8260
Waste and Used Oil or Unknown (All analyses must be completed and submitted)	TPH G GCFID(5030)	TPH G GCFID(5030)
	TPH D GCFID(3550)	TPH D GCFID(3510)
	TPH AND BTX&E 8260	
	O & G 5520 D & F	O & G 5520 B & F
	BTX&E 8020 or 8240	BTX&E 602, 624 or 8260
	CL HC 8010 or 8240	CL HC 601 or 624
ICAP or AA TO DETECT METALS: Cd, Cr, Pb, Zn, Ni		
METHOD 8270 FOR SOIL OR WATER TO DETECT:		
	PCB*	PCB
	PCP*	PCP
	PNA	PNA
	CREOSOTE	CREOSOTE

* If found, analyze for dibenzofurans (PCBs) or dioxins (PCP)

Reference: Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites, 10 August 1990

EXPLANATION FOR TABLE #2: MINIMUM VERIFICATION ANALYSIS

1. OTHER METHODOLOGIES are continually being developed and as methods are accepted by EPA or DHS, they also can be used.
2. For DRINKING WATER SOURCES, EPA recommends that the 500 series for volatile organics be used in preference to the 600 series because the detection limits are lower and the QA/QC is better.
3. APPROPRIATE STANDARDS for the materials stored in the tank are to be used for all analyses on Table #2. For instance, seasonally, there may be five different jet fuel mixtures to be considered.
4. To AVOID FALSE POSITIVE detection of benzene, benzene-free solvents are to be used.
5. TOTAL PETROLEUM HYDROCARBONS (TPH) as gasoline (G) and diesel (D) ranges (volatile and extractable, respectively) are to be analyzed and characterized by GCFID with a fused capillary column and prepared by EPA method 5030 (purge and trap) for volatile hydrocarbons, or extracted by sonication using 3550 methodology for extractable hydrocarbons. Fused capillary columns are preferred to packed columns; a packed column may be used as a "first cut" with "dirty" samples or once the hydrocarbons have been characterized and proper QA/QC is followed.
6. TETRAETHYL LEAD (TEL) analysis may be required if total lead is detected unless the determination is made that the total lead concentration is geogenic (naturally occurring).
7. CHLORINATED HYDROCARBONS (CL HC) AND BENZENE, TOLUENE, XYLENE AND ETHYLBENZENE (BTX&E) are analyzed in soil by EPA methods 8010 and 8020 respectively, (or 8240) and in water, 601 and 602, respectively (or 624).
8. OIL AND GREASE (O & G) may be used when heavy, straight chain hydrocarbons may be present. Infrared analysis by method 418.1 may also be acceptable for O & G if proper standards are used. "Standard Methods" 17th Edition, 1989, has changed the 503 series to 5520.
9. PRACTICAL QUANTITATION REPORTING LIMITS are influenced by matrix problems and laboratory QA/QC procedures. Following are the Practical Quantitation Reporting Limits:

	<u>SOIL PPM</u>	<u>WATER PPB</u>
TPH G	1.0	50.0
TPH D	1.0	50.0
BTX&E	0.005	0.5
O & G	50.0	5,000.0

Based upon a Regional Board survey of Department of Health Services Certified Laboratories, the Practical Quantitation Reporting Limits are attainable by a majority of laboratories with the exception of diesel fuel in soils. The Diesel Practical Quantitation Reporting Limits, shown by the survey, are:

ROUTINE	MODIFIED PROTOCOL
≤ 10 ppm (42%)	≤ 10 ppm (10%)
≤ 5 ppm (19%)	≤ 5 ppm (21%)
≤ 1 ppm (35%)	≤ 1 ppm (60%)

When the Practical Quantitation Reporting Limits are not achievable, an explanation of the problem is to be submitted on the laboratory data sheets.

- LABORATORY DATA SHEETS are to be signed and submitted and include the laboratory's assessment of the condition of the samples on receipt including temperature, suitable container type, air bubbles present/absent in VOA bottles, proper preservation, etc. The sheets are to include the dates sampled, submitted, prepared for analysis, and analyzed.
- IF PEAKS ARE FOUND, when running samples, that do not conform to the standard, laboratories are to report the peaks, including any unknown complex mixtures that elute at times varying from the standards. Recognizing that these mixtures may be contrary to the standard, they may not be readily identified; however, they are to be reported. At the discretion of the LIA or Regional Board the following information is to be contained in the laboratory report:

The relative retention time for the unknown peak(s) relative to the reference peak in the standard, copies of the chromatogram(s), the type of column used, initial temperature, temperature program is C/minute, and the final temperature.

- REPORTING LIMITS FOR TPH are: gasoline standard ≤ 20 carbon atoms, diesel and jet fuel (kerosene) standard ≤ 50 carbon atoms. It is not necessary to continue the chromatography beyond the limit, standard, or EPA/DHS method protocol (whichever time is greater).

EPILOGUE

ADDITIVES: Major oil companies are being encouraged or required by the federal government to reformulate gasoline as cleaner burning fuels to reduce air emissions. MTBE (Methyl-tertiary butyl ether), ETHANOL (ethyl alcohol), and other chemicals may be added to reformulate gasolines to increase the oxygen content in the fuel and thereby decrease undesirable emissions (about four percent with MTBE). MTBE and ethanol are, for practical purposes, soluble in water. The removal from the water column will be difficult. Other compounds are being added by the oil companies for various purposes. The refinements for detection and analysis for all of these additives are still being worked out. If you have any questions about the methodology, please call your Regional Board representative.

ALAMEDA COUNTY ENVIRONMENTAL PROTECTION DIVISION

DECLARATION OF SITE ACCOUNT REFUND RECIPIENT

There may be excess funds remaining in the Site Account at the completion of this project. The PAYOR (person or company that issues the check) will use this form to predesignate another party to receive any funds refunded at the completion of this project. In the absence of this form, the PAYOR will receive the refund.

SITE INFORMATION:

Site ID Number
(if known)

Chingtown 76 # 0752

Name of Site

800 Harrison Street

Street Address

Oakland CA 94607

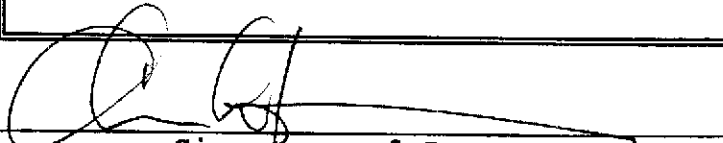
City, State & Zip Code

I designate the following person or business to receive any refund due at the completion of all deposit/refund projects:

Robert H. Lee & Associates, Inc.
Name

650 Howe Ave. Suite 504
Street Address

Sacramento CA 95825
City, State & Zip Code


Signature of Payor

11/8/96
Date

Chris Lawton
Name of Payor
(PLEASE PRINT CLEARLY)

Robert H. Lee & Assoc.
Company Name of Payor

RETURN FORM TO:

County of Alameda, Environmental Protection
1131 Harbor Bay Parkway, Rm 250
Alameda CA 94502-6577
Phone#(510) 567-6700

CNS & ASSOCIATES, INC.
13942 Dell Lane, Santa Ana, CA 92705
(714) 573-3888 + Fax (714) 573-2511
Contractors License Number 708268
Classes: A, HAZ, B



FACSIMILE COVER SHEET

DATE: 11/8/96

ATTENTION: JENNIFER EBERLE

LOCATION: ALAMEDA EHS @ 510/237-9335

COMMENTS: P. Y. P.

Phil

TOTAL NUMBER OF PAGES INCLUDING COVER SHEET: 5

Please call if you do not receive all pages indicated.



INITIAL INSPECTION CHECKLIST FOR WASTE OIL TANK TEMPORARY CLOSURE

UNOCAL SERVICE STATION # 752
800 Harrison St.
Oakland, CA 94607

Cross streets : Harrison/8th

Responsible Environmental Health Agency : ALAMEDA COUNTY EHS

EPA ID #: CAD982054280

TANK INFORMATION : 550 G -- W/O -- 1990 -- D/W P/C STL

Table with 3 columns: Question, YES, NO. Rows include: Pumped out?, Triple rinsed?, O2 Level (10% or less) (Ventura County), L.E.L. (Santa Barbara County), Tank empty?, Dry Ice added?, Fill/Access points locked?, Remote fill capped & locked?, Other(describe).

Comments: TANK WAS PUMPED OUT, TRIPLE WASHED, DRY ICE ADDED 7.5 LBS, LOCKED OUT

NAME: Bob Kemp COMPANY: ENVIROCLEAN
SIGNATURE: [Signature] DATE: 8-29-96

CITY OF OAKLAND
REPORT OF FIRE INSPECTION

ENGINE CO.

FPB

ADDRESS 500 HARRISON ST.

NAME FINNED CASH

GENERAL INSPECTION PERMIT OTHER HAZARD NOTED HAZARD ABATED

NOTICE LEFT LETTER 1st NOTICE 2nd NOTICE FINAL

DATE VIOLATION C.F.C. CONTACTED

8-30-96 Witnessed Oxygen and LEL BOB

test on waste oil tank Rem.f

Oxygen 3% LEL 0%

Recommend APPROVAL

A REINSPECTION WILL BE MADE WITHIN _____ DAYS

FIRE PREVENTION BUREAU - PHONE 238-3851

INSPECTOR LYAN RUCKER

300#1081
#708

RECORD OF PAYMENT

Seven Hundred & Thirty Dollars ~~and 68/100~~

DATE 8-27-96	TO THE ORDER OF Glacier Ice Co	CHECK NUMBER 73068	CHECK AMOUNT 730.68
DESCRIPTION JOB # 1081			
<i>Carl M. Johnson</i> NON-NEGOTIABLE			

RECORD OF PAYMENT

JOB # 905

\$9.73
\$ 2.00
\$ 4.72

COSTCO WHOLESALE
ARTIUCH \$137

ARTIUCHE HERBES #1370150000	7
7 0 7-29	
56140 SIMPLE GREEN	55.25
11278 JORNISITE	6.09
*** 0.25 TAX RATE	5.09

TOTAL 66.81

Check/Money Order 66.81
Check 00

TOTAL NUMBER OF ITEMS SOLD = 8
CASHIER ROBERT F
8/25/96 15.25 0137 05 0142 19

For further service CALL 1-800-774-2674
THANK YOU!
PLEASE COME AGAIN

CHECK NUMBER 6681	CHECK AMOUNT 66.81
<i>Carl M. Johnson</i> NON-NEGOTIABLE	

State of California--Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-96)
Please print or type. Form designed for use on a 12-pitch typewriter.

See instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

9030604Z
IN CASE OF EMERGENCY BR-SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8602. WITHIN CALIFORNIA, CALL 1-800-852-7550
GENERATOR FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA1D98205142180	Manifest Document No. 0 6 0 4 2	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address UNOCAL CORP SS# 752 PO BOX 25576 SANTA ANA, CA ATTN: Dave Corder					
4. Generator's Phone 714 573-3888		6. US EPA ID Number 32799-5376			
5. Transporter 1 Company Name First Environmental Group					
7. Transporter 2 Company Name		8. US EPA ID Number CA1D081435911			
9. Designated Facility Name and Site Address PRC Patterson 13331 North Hwy. 33 Patterson, CA 95363					
10. US EPA ID Number CA1D08166728					
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	
a. Non-RCRA Hazardous Waste Liquids (Oil & Water)		001 TT	200 B		
b.					
c.					
d.					
15. Special Handling Instructions and Additional Information PERFORMED FOR CNS & ASSOCIATES, INC. UNOCAL SS# 752 800-HARRISON ST OAKLAND, CA. EMERGENCY PH# 1-510-442-6287 AVOID SKIN CONTACT					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this commitment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name Bob Kemp for UNOCAL		Signature <i>[Signature]</i>		Month Day Year 08 29 96	
17. Transporter 1 Acknowledgment of Receipt of Materials					
Printed/Typed Name Ray Gonzalez		Signature <i>[Signature]</i>		Month Day Year 08 29 96	
18. Transporter 2 Acknowledgment of Receipt of Materials					
Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name		Signature		Month Day Year	

DO NOT WRITE BELOW THIS LINE.

CNS & Associates, Inc.
13942 Dall Lane, Santa Ana, CA 92705
Tel 714 573-3888 • Fax 714 573-2511

Contractors License Number 708268
Classes: A, HAZ, B

CNS
& ASSOCIATES, INC.

96 JUL 22 PM 4: 06
ENVIRONMENTAL
PROTECTION

Alameda County - Dept. of Environmental Health
Environmental Protection Division
1131 Harbor Bay Pkwy., Room 250
Alameda CA 94502-6577
ATTN: Pam Evans

July 19, 1996

SUBJECT: WASTE OIL TANK OUT OF SERVICE

RE: UNOCAL Service Station # 752
Address: 800 Harrison St., Oakland CA 94607

Dear Inspector,

CNS & Associates, Inc. is making notification that the 550 gallon waste oil tank at the above named service station has been placed out of service. Unocal is in the process of converting the station from a full service station to a self-serve station.


The tank currently meets 1998 standards, is of Double-walled, Fiberglass/steel construction, and is monitored by a Leak-Alert model LA-08 leak detector using an interstitial probe. Monitoring will continue unchanged until such time as UNOCAL decides to remove the tank from the ground.

The tank is scheduled to be pumped out, triple rinsed, and inerted with dry ice. A copy of the manifest will be sent to your office. All access points will be capped and locked to ensure nothing can be added to the tank. The tank will be inspected and re-inerted as necessary every 3 months. Your office will be notified prior to the scheduled date so that you may observe or verify the inert status of the tank.

Upon selection of a Contractor to remove the tank at the subject Service Station, Unocal shall instruct the Contractor to contact your offices to obtain the necessary permits and make the necessary arrangements for inspections to ensure the tank is removed in accordance with the Alameda County - Dept. of Environmental Health's guidelines and regulations.

For answers to any questions regarding this Service Station's waste oil tank, please call David Simon or Mike Wilson of CNS & Associates, Inc. at (714) 573-3888.

Yours truly,


David Simon
Vice President
CNS & Associates, Inc.

ENVIRONMENTAL
PROTECTION

96 MAY 22 PM 12:14

Unocal Corporation
Diversified Businesses
2000 Crow Canyon Place, Suite 400
San Ramon, California 94583
Telephone (510) 867-0760
Facsimile (510) 277-2309

UNOCAL 

May 21, 1996

West Region
Environmental Remediation Services

Ms. Jennifer Eberle
Alameda County, Health
Care Services Agency
1131 Harbor Bay Pkwy. Rm. 250
Alameda, CA 94502-6577

Subject: STID #918
UNOCAL Service Station #0752
800 Harrison Street
Oakland, California

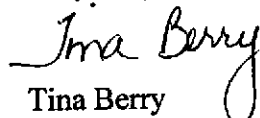
Dear Ms. Eberle:

Thank you for your May 13, 1996 letter regarding the subject location. UNOCAL appreciates and concurs with your suggestion to reduce the monitoring and sampling frequency to semi-annually for this site. The wells were monitored during the second quarter (April 1996) prior to receipt of your letter. We will monitor and sample the site again during the third quarter and implement the reduced sampling program at that time. Therefore, no fourth quarter groundwater monitoring report will be submitted this year. We will endeavor to provide future groundwater monitoring reports for the first and third quarters of the year.

Also, please be advised that Oxygen Reducing Compound (ORC) socks were installed in site wells during the April monitoring and sampling event. Based upon our experience at other sites, we are hopeful this material will prove to assist in reducing natural attenuation of the hydrocarbons in the groundwater system.

Thanks again, Jennifer. Please let me know if you have any other questions or concerns regarding this case. I can be reached at 510-277-2321.

Very truly yours,



Tina Berry
Environmental Geologist

cc: File (0752)
Bob Kezerian, KEI

May 18, 1995

Unocal Corporation
2000 Crow Canyon Place, Suite 400
P.O. Box 5155
San Ramon, California 94583

Attention: Ms. Tina Berry

RE: Unocal Service Station #0752
800 Harrison Street
Oakland, California

Dear Ms. Berry:

This letter summarizes the information obtained for other underground tank sites in the vicinity of the subject Unocal site. Previous file review information was last presented in Kaprealian Engineering, Inc's. (KEI) report (KEI-P90-1103.R8) dated April 1, 1994. The site vicinity is shown on the attached Figure 1.

On January 17, 1995, a representative of Kaprealian Engineering, Inc. (KEI) reviewed historical Oakland city directories available at the Pleasant Hill library in Pleasant Hill, California. The directories (Polk's) reviewed were the years 1928, 1933, 1938, 1943, and 1967. The following is a summary of the information obtained from this review:

Unocal Service Station #0752, 800 Harrison Street - The station is listed in 1943 under L.C. Wong, and in 1967 as a Unocal station.

Shell Station, 726 Harrison Street (presently operating on LUST list as Exxon station) - This station is listed as Lim Brothers in 1943, and as Mandarin Phillips 66 in the 1966 directory.

706 Harrison (current Oakland Auto Parts and Tires) - Listed as a Richfield station in the 1967 directory.

715 Harrison Street - Listed as a Gulf station in the 1967 directory.

901 Harrison Street - Listed as a Standard station in the 1933 and 1938 directories.

245 - 8th Street - Listed as a service station (Wong's) in the 1967 directory, presently Vic's Automotive.

300 7th Street - Listed as a Signal station in the 1933 directory.

831 Webster Street - Listed as a Phillips 66 station in 1967.

925 Webster Street - Listed as a Standard station in 1967 directory.

On February 15, 1995, a representative of KEI reviewed the Alameda County Health Care Services (ACHCS) Agency file for the Shell service station located at 726 Harrison Street, adjacent to the Unocal site. The file review was conducted at the ACHCS offices at 1131 Harbor Bay Parkway in Alameda, California. The following is a summary of the information obtained from the file:

Applications were submitted in August 1990 to operate five underground storage tanks at the site. All of the tanks are single-walled. The tanks consist of three 5,000 gallon tanks, one 8,000 gallon tank, and a 750 gallon waste oil tank. As of September 23, 1994, one 5,000 gallon tank on the west side of the tank pit was not in service.

On May 9, 1995, a representative of KEI reviewed files at the offices of the Oakland Fire Department at 421 - 14th Street in Oakland, California. According to Fire Department personnel, the files have been purged of documents older than 1980. The following is a summary of the information contained in the files:

No file on the Shell station located at 726 Harrison Street existed at the Fire Department. Therefore, it appears that no tanks have been either removed or installed since 1980.

A file existed for a former service station at 706 Harrison Street, currently Oakland Auto Parts and Tires. A permit dated June 27, 1990, for the removal of four 1,000 gallon tanks, two 6,000 gallon tanks, and one waste oil tank was contained in the file.

In the file for the former service station located at 245 8th Street, now Vic's Automotive, documents indicate that two 6,000 gallon tanks were removed in August 1994.

In summary, based on all of the information obtained to date, the vicinity of the subject Unocal site has a high density of former and currently operating service station or underground tank sites (ten stations or sites within 1-1/2 blocks, as shown on Figure 1).

Ms. Tina Berry
Unocal Corporation

May 18, 1995
Page 3

The historical ground water flow direction at the Unocal site is southwest to south-southwest. None of these sites appear to be located directly upgradient of Unocal or appear to have contributed to the contamination at the Unocal site. However, the Shell station, located southwest of and directly across 8th Street from Unocal, has operated since at least 1943. According to Oakland Fire Department records, none of the single-wall steel tanks presently in use have been installed or replaced since at least 1980. It is therefore possible that the ground water contamination encountered in Unocal's off-site well MW8, adjacent to the Shell station, may involve a separate contaminant plume.

Finally, during a phone conversation with Bob Kezerian on February 7, 1995, Ms. Eberle of the ACHCS stated that while no investigation has been conducted by Shell, the Arco/Richfield site downgradient (from Shell) has wells. Ms. Eberle noted that Arco was reporting free product in their upgradient wells, and implied that it might be coming from the upgradient Shell station

Should you have any questions on this matter, please call me at (510) 602-5105.

Sincerely,

Kaprealian Engineering, Inc.

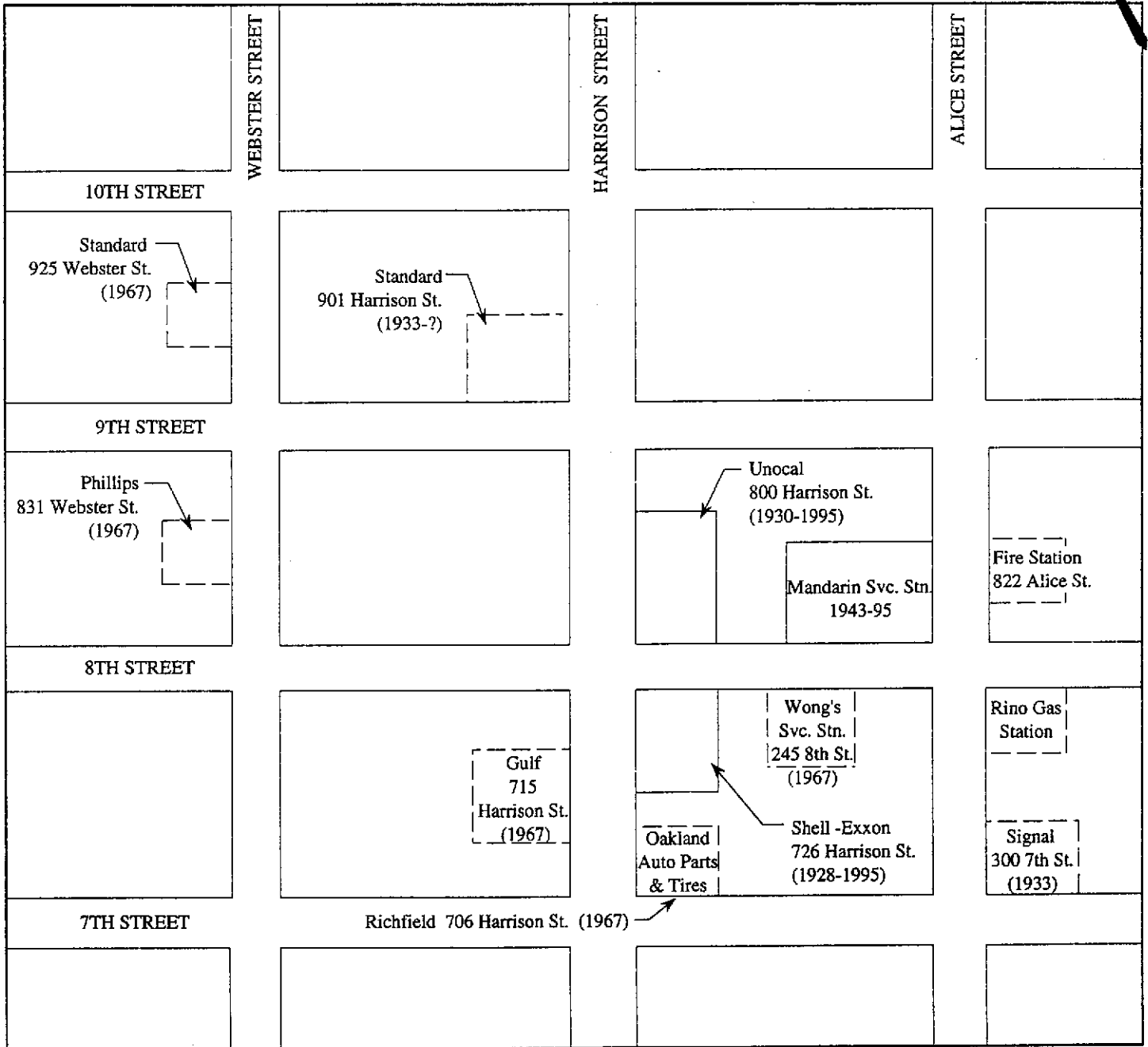


Joel G. Greger, C.E.G.
Senior Engineering Geologist

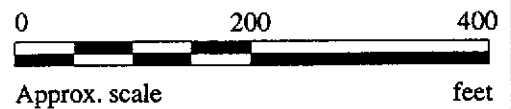
License No. EG 1633
Exp. Date 8/31/96

JGG:jad\TB0518

Attachment



Note:
Duration of operation given where known,
single dates refer to known historical listings.



SITE VICINITY MAP



**UNOCAL SERVICE STATION #0752
800 HARRISON STREET
OAKLAND, CALIFORNIA**

**FIGURE
1**

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



Alameda County
Environmental Protection Division
1131 Harbor Bay Parkway, Room 250
Alameda CA 94502-6577

CC4580

May 13, 1996
STID 918
page 1 of 2

Attn: Tina Berry
Unocal Corporation
2000 Crow Canyon Place, Suite 400
PO Box 5155
San Ramon CA 94583

RE: Unocal service station #0752, 800 Harrison St., Oakland CA 94607

Dear Ms. Berry,

Since my last letter to you, dated 2/7/95, the following documents have been received in this office:

- 1) "Quarterly Data Report," prepared by MPDS, dated 1/31/95;
- 2) "Quarterly Data Report," prepared by MPDS, dated 5/3/95;
- 3) letter from KEI, dated 5/18/95 (information obtained for nearby UST sites);
- 4) "Quarterly Data Report," prepared by MPDS, dated 8/8/95;
- 5) "Pilot Vapor Extraction Test Report," prepared by KEI, dated 10/23/95;
- 6) "Quarterly Data Report," prepared by MPDS, dated 11/6/95; and
- 7) "Quarterly Data Report," prepared by MPDS, dated 1/31/96.

The monitoring wells have been sampled and monitored quarterly for several quarters. MW1, MW2, and MW3 have been on a quarterly schedule since 6/5/91; MW4, MW5, and MW6 since 10/19/92; MW7 and MW8 since 4/28/93. Concentrations of contaminants have been fairly consistent for several quarters. **Therefore, it would be acceptable to reduce the sampling and monitoring frequency from quarterly to semi-annually (first and third quarters).**

The pilot vapor extraction (VE) test conducted last year concluded that VE would not work well at this site. Our file notes indicate that you spoke with my colleague Dale Klettke on 11/13/95 during my absence. The notes indicate you discussed the use of an oxygen-releasing compound in the form of a "sock" placed in individual wells, for the purpose of raising oxygen levels and promoting biodegradation. **Please respond within 30 days as to the status of implementing this system.**

RECEIVED

MAY 15 1996

May 13, 1996
STID 918
page 2 of 2
Attn: Tina Berry
Unocal Corporation

I can be reached directly at 510-567-6761.

Sincerely,



Jermifer Eberle
Hazardous Materials Specialist

cc: Bob Kezerian, Kaprealian Engineering Inc., 2401 Stanwell Dr., Suite 400, Concord CA
94520
MPDS, 2401 Stanwell Drive, Suite 300, Concord CA 94520
Acting Chief/file

je.918-C



KAPREALIAN ENGINEERING
INCORPORATED

December 11, 1995

Alameda County Health Care Services
1131 Harbor Way Parkway, #250
Alameda, CA 94501

Attention: Mr. Thomas Peacock

RE: Oxygen Releasing Compound
Unocal Service Station #0752
800 Harrison Street
Oakland, California

Dear Mr. Peacock:

In our recent report (KEI-P90-1103.R10) dated October 23, 1995, KEI discussed Unocal's interest in employing an oxygen releasing compound (ORC) at the subject site. Recent studies indicate that the use of an ORC increases the dissolved oxygen in ground water and thus may improve the natural biodegradation rate of dissolved hydrocarbons. Copies of the vendor literature were attached to the referenced report. Ms. Tina Berry of Unocal Corporation has notified KEI of her recent telephone conversation with your office, in which the Alameda County Health Care Services Agency reportedly approved the use of ORC. On behalf of Unocal, this letter serves as notification that KEI will proceed with the process of installation of an ORC in select wells at the subject site.

If you have any questions, or if you desire any additional information regarding the ORC, please do not hesitate to call me at (510) 602-5104.

Sincerely,

Kaprealian Engineering, Inc.



Robert H. Kezerian
Project Manager

rhk:jad\TP1211

cc: Ms. Tina Berry, Unocal Corporation

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY



DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

February 7, 1995
STID 918

DEPARTMENT OF ENVIRONMENTAL HEALTH
ALAMEDA COUNTY CC4580
DEPT. OF ENVIRONMENTAL HEALTH
ENVIRONMENTAL PROTECTION DIVISION
1131 HARBOR BAY PKWY., #250
ALAMEDA CA 94502-6577

Attn: Tina Berry
Unocal Corporation
2000 Crow Canyon Place, Suite 400
PO Box 5155
San Ramon CA 94583

RE: Unocal station #0752, 800 Harrison St., Oakland CA 94607

Dear Ms. Berry,

Since my last letter to you dated 6/8/94, the following documents have been received in this office:

- 1) August 2, 1994 Quarterly Data Report, prepared by MPDS Services, Inc. This report documents the sampling and monitoring of groundwater on 7/5/94.
- 2) November 8, 1994 Quarterly Data Report, prepared by MPDS Services, Inc. This report documents the sampling and monitoring of groundwater on 10/6/94.
- 3) December 1, 1994 Revised Work Plan/Proposal, prepared by Kaprealian Engineering Inc., proposing a vapor extraction pilot test for MW-3.

I have discussed the details of the vapor extraction pilot test via telephone with your consultant, Bob Kezerian, of KEI. It is likely that the well screen in MW-3 is no longer exposed, due to this winter's unusually high precipitation. Therefore, the pilot test will be postponed until at least two feet of well screen is exposed in MW-3; it may be summer before this condition is achieved. **The workplan is acceptable under this condition.**

Please note that with the exception of closure reports, routine reports and documents no longer need to be copied to the Regional Water Quality Control Board. If you have any questions, please contact me at 510-567-6761; our fax number is 510-337-9335. These are new phone and fax numbers as of August 1994.

Sincerely,


Jennifer Eberle
Hazardous Materials Specialist

cc: Robert Kezerian, Kaprealian Engineering Inc., 2401 Stanwell
Dr., Suite 400, Concord CA 94520

Ed Howell/file
je.918-B

KEI-P90-1103.P5R
December 1, 1994

Unocal Corporation
2000 Crow Canyon Place, Suite 400
P.O. Box 5155
San Ramon, California 94583

Attention: Ms. Tina Berry

RE: Revised Work Plan/Proposal
Unocal Service Station #0752
800 Harrison Street
Oakland, California

Dear Ms. Berry:

INTRODUCTION

At your request, Kaprealian Engineering, Inc. (KEI) presents this revised work plan/proposal for a pilot vapor extraction test at the subject site. The purpose of this test is to determine whether vapor extraction is a feasible means of remediation.

BACKGROUND

The subject site contains a Unocal service station facility. Two underground gasoline storage tanks, one waste oil storage tank, and the product piping were removed from the site in November and December of 1990 during tank replacement activities. The fuel tank pit, waste oil tank pit, and one pump island were subsequently overexcavated in order to remove contaminated soil. Eight monitoring wells have been installed and 12 exploratory borings have been drilled at and in the vicinity of the site.

A site description, detailed background information including a summary of all of the soil and ground water subsurface investigation/remediation work conducted to date, site hydrogeologic conditions, and tables that summarize all of the soil and ground water sample analytical results are presented in KEI's report (KEI-P90-1103.R8) dated April 1, 1994. The results of the most recent quarter of monitoring and sampling of the monitoring wells are presented on MPDS Services, Inc's. Quarterly Data Report (MPDS-UN0752-03) dated August 2, 1994. Lastly, the analytical results of all of the soil samples collected during the drilling of the exploratory borings and monitoring wells and all of the ground water samples collected to date summarized in the attached Appendices A and B, respectively.

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

June 8, 1994
STID 918

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

Tina Berry
Unocal Corporation
2000 Crow Canyon Place, Suite 400
PO Box 5155
San Ramon CA 94583

RE: Unocal station #0752, 800 Harrison St., Oakland CA 94607

Dear Ms. Berry,

Since my last letter to you dated 3/10/94, the following documents have been received in this office:

- 1) May 5, 1994 Quarterly Data Report, prepared by MPDS Services, Inc. This report documents the sampling and monitoring of groundwater on 4/2/94.
- 2) February 3, 1994 Quarterly Data Report, prepared by MPDS Services, Inc., documenting groundwater sampling and monitoring on 1/3/94.
- 3) April 1, 1994 Subsurface Investigation Report, prepared by Kaprealian Engineering Inc. This report documents the drilling of 10 soil borings in March 1994.

We are also in receipt of the 5/18/94 letter from Kaprealian Engineering Inc. This letter requests a modification in the sampling program for this site. **The request is to discontinue the analysis for TPH-d and VOCs (by EPA Method 8010) in MW-1. This request is acceptable, for the reasons stated in the 5/18/94 KEI letter.**

Please note that with the exception of closure reports, routine reports and documents no longer need to be copied to the Regional Water Quality Control Board. Kindly submit a cover letter with your consultant's reports. If you have any questions, please contact me at 510-271-4530.

Sincerely,

Jennifer Eberle
Hazardous Materials Specialist

cc: Robert Kezerian, Kaprealian Engineering Inc., 2401 Stanwell
Dr., Suite 400, Concord CA 94520
Ed Howell/file

je 918-A

ALCO
HAZMAT

KAPREALIAN ENGINEERING
INCORPORATED

94 MAY 20 AM 11:54

May 18, 1994

Unocal Corporation
2000 Crow Canyon Place, Suite 400
P.O. Box 5155
San Ramon, CA 94583

Attention: Ms. Tina Berry

RE: Modify Monitoring & Sampling Program
Unocal Service Station #0752
800 Harrison Street
Oakland, California

Dear Ms. Berry:

This letter is written in association with MPDS's Quarterly Data Report (MPDS-UN0752-02) dated May 5, 1994, and provides Kaprealian Engineering, Inc's. (KEI) recommendations for a modification of the ground water monitoring and sampling program for the subject Unocal site.

The analytical results of ground water samples collected from well MW1 for the previous four quarterly sampling events (one hydrologic cycle) have consistently indicated non-detectable concentrations of TPH as diesel, except for 57 ppb detected on the October 5, 1993, sampling event. However, Sequoia Analytical Laboratory noted that the hydrocarbons detected in this sample appeared to be a "non-diesel mixture (<C12)."

Additionally, since the inception of quarterly ground water sampling in June of 1991 (three hydrologic cycles), the analytical results of the ground water samples collected from MW1 have consistently indicated non-detectable concentrations of all EPA method 8010 constituents, except for chloroform, tetrachloroethene (PCE), and trichloroethene (TCE). Also, 1,2-dichloroethane was detected in MW1 on only one of the sampling events. The maximum contaminant levels (MCL) noted for chloroform, PCE, and TCE in the U.S. Environmental Protection Agency Drinking Water Standards and Health Advisories Table, dated May 1993, are 100 ppb (EPA), 5 ppb (California DOHS), and 5 ppb (California DOHS), respectively. Since the June 1991 sampling event, the concentrations of these three constituents, detected in the ground water samples collected from MW1, have consistently been below the respective MCL's.

Based on the above discussion, KEI recommends a modification to the ground water monitoring and sampling program. KEI recommends that the ground water samples collected from MW1 no longer be analyzed for TPH as diesel or EPA method 8010 constituents. In summary, the

Ms. Tina Berry
Unocal Corporation

Page 2

May 18, 1994

eight monitoring wells (MW1 through MW8) are monitored and sampled quarterly. The ground water samples will be analyzed for TPH as gasoline and BTEX.

Should you have any questions, please do not hesitate to call me at (510) 602-5104.

Sincerely,

Kaprealian Engineering, Inc.



Robert H. Kezerian
Project Manager

rhk:jad\TB0518

cc: Ms. Jennifer Eberle, ACHCS ✓

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

March 10, 1994
STID 918

Tina Berry
Unocal Corporation
2000 Crow Canyon Place, Suite 400
PO Box 5155
San Ramon CA 94583

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

RE: Unocal station #0752, 800 Harrison St., Oakland CA 94607

Dear Ms. Berry,

We are in receipt of the 2/4/94 Work Plan for 10 exploratory borings, prepared by Kaprealian Engineering Inc. (KEI). We are also in receipt of the 11/29/93 Phase I Environmental Site Assessment, prepared by PHR Environmental Consultants, Inc. The workplan is acceptable for implementation on the following conditions:

- 1) At least one soil sample from the capillary fringe in each boring will be submitted for analysis.
- 2) Soil cuttings will be characterized and properly disposed. Hazardous wastes may be stored onsite for no longer than 90 days without a storage permit, as per 22 CCR.

Please note that with the exception of closure reports, routine reports and documents no longer need to be copied to the Regional Water Quality Control Board. Kindly submit a cover letter with your consultant's reports. If you have any questions, please contact me at 510-271-4530.

Please notify me at least 2 business days in advance of field activities so that I may arrange to be onsite.

Sincerely,

Jennifer Eberle
Hazardous Materials Specialist

cc: Joel Greger, Kaprealian Engineering Inc., 2401 Stanwell
Dr., Suite 400, Concord CA 94520
Ed Howell/file

je

-env.health
w -facility
-files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Inspection Form

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

MJ 7/1/94

II, III

Site ID # 918 Site Name UNOCAL Today's Date 2/3/94

Site Address 800 HARRISON ST.
City OAKLAND Zip 94607 Phone _____

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

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

Comments:

12,000 GAL - UNLEADED - DU
12,000 GAL - SUPER UNLEADED DI
500 GAL - WASTE OIL - DI

LEAK ALERT - LA-08

1) COMPLETE + SUBMIT UNDER-GROUND TANK PERMIT APPLICATION - 30 DAYS.

2) PROVIDE UNDERGROUND TANK MONITORING PLAN + LEAK RESPONSE PLAN. - 30 DAYS.

I.A BUSINESS PLANS (Title 19)

- 1. Immediate Reporting 2703
- 2. Bus. Plan Stds. 25503(b)
- 3. RR Cars > 30 days 25503.7
- 4. Inventory Information 25504(a)
- 5. Inventory Complete 2730
- 6. Emergency Response 25504(b)
- 7. Training 25504(c)
- 8. Deficiency 25505(a)
- 9. Modification 25505(b)

II.B ACUTELY HAZ. MATLS

- 10. Registration Form Filed 25533(a)
- 11. Form Complete 25533(b)
- 12. RMPP Contents 25534(c)
- 13. Implement Sch. Rec'd? (Y/N)
- 14. OffSite Conseq. Assess. 25524(c)
- 15. Probable Risk Assessment 25534(d)
- 16. Persons Responsible 25534(g)
- 17. Certification 25534(f)
- 18. Exemption Request? (Y/N) 25536(b)
- 19. Trade Secret Requested? 25538

III. UNDERGROUND TANKS (Title 23)

- General
- 1. Permit Application 25284 (H&S)
 - 2. Pipeline Leak Detection 25292 (H&S)
 - 3. Records Maintenance 2712
 - 4. Release Report 2651
 - 5. Closure Plans 2670

- Monitoring for Existing Tanks
- 6. Method
 - 1) Monthly Test
 - 2) Daily Vadose
Semi-annual gndwater
One time soils
 - 3) Daily Vadose
One time soils
Annual tank test
 - 4) Monthly Gndwater
One time soils
 - 5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/gndwater mon.
 - 6) Daily Inventory
Annual tank testing
Cont pipe leak det
 - 7) Weekly Tank Gauge
Annual tank testing
 - 8) Annual Tank Testing
Daily Inventory
 - 9) Other _____

- 7. Precs Tank Test 2643
Date: _____
- 8. Inventory Rec. 2644
- 9. Soil Testing 2646
- 10. Ground Water. 2647

- New Tanks
- 11. Monitor Plan 2632
 - 12. Access. Secure 2634
 - 13. Plans Submit 2711
Date: _____
 - 14. As Built 2635
Date: _____

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Contact: _____

Title: _____

Signature: Heiter Lau

Inspector: _____

Signature: Don Hawary

II, III

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY



DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

February 25, 1993
STID 918

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

Edward C. Ralston
Unocal Corporation
2000 Crow Canyon Pl., Suite 400
PO Box 5155
San Ramon CA 94583

RE: Unocal Service Station #0752
800 Harrison St.
Oakland CA 94607

Dear Mr. Ralston,

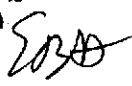
Thank you for the Quarterly Report and the Work Plan/Proposal, both prepared by Kaprealian Engineering Inc., and both dated 1/21/93. As you are aware, the Quarterly Report documents the sampling of MW1 through MW6 on 12/21/92. Concentrations as high as 8,500 ppb of TPH-g and 1,500 ppb benzene were detected (MW3). The newest three monitoring wells (MW4 through MW6) were also shown to contain elevated levels of petroleum hydrocarbons.

The 1/21/93 Work Plan/Proposal for two additional offsite, downgradient monitoring wells is a logical next step, and is hereby accepted for implementation. Please inform me at least two business days in advance when drilling will commence, so that I can be onsite if possible.

If you have any questions, please contact me at 510-271-4530.

Sincerely,

Jennifer Eberle
Hazardous Materials Specialist

cc: Tim Ross, Kaprealian Engineering Inc., 2401 Stanwell Dr.,
Suite 400, Concord CA 94520
Rich Hiatt, RWQCB
Ed Howell/File 

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ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



BA
File

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

September 23, 1992

STID 918

Unocal Corporation
2000 Crow Canyon Pl., Ste 400
PO Box 5155
San Ramon CA 94583
Attn: Tim Howard

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

RE: Unocal Service Station 0752
800 Harrison St.
Oakland CA 94607

Dear Mr. Howard,

On August 4, 1992, we received the Quarterly Report for the second quarter of 1992, prepared by your consultant, Kaprealian Engineering Incorporated (KEI). In this report, KEI recommends that Oil & Grease and the 5 metals analyses for MW1 be discontinued. This recommendation was based on five consecutive quarters of nondetectable concentrations for Oil & Grease and cadmium, and levels below the EPA's Maximum Contaminant Levels (MCLs) for the other four metals. Therefore, we approve this recommendation for MW1.

During a telephone conversation on 9/23/92 between Tom Berkin of KEI and myself, he indicated that the three additional monitoring wells (MW4 to MW6) were to be installed beginning 9/30/92. He also indicated that the reason 1200 ppm TPH-g was left in place under dispenser #2 (D2) was that the structural integrity of the canopy would be compromised if the excavation proceeded. There is also elevated concentrations of hydrocarbons left in place in the area of the former fuel tanks.

If you have any questions concerning this letter, please contact me at 510-271-4530.

Sincerely,

Jennifer Eberle
Hazardous Materials Specialist

cc: Tim Ross, Kapraelian Engineering Inc., 2401 Stanwell Dr.,
Ste 400, Concord CA 94520
Rich Hiett, RWQCB
Ed Howell/Files

je-918



KAPREALIAN ENGINEERING
INCORPORATED

May 27, 1992

Ms. Jennifer Eberle
Alameda County Water District
43885 South Grimmer Boulevard
Post Office Box 5110
Fremont, California 94537

RE: Unocal Service Station #0752
800 Harrison Street
Oakland, California

Dear Ms. Eberle:

This letter is written to confirm our telephone conversation of May 26, 1992. It is our understanding that due to four consecutive quarters of non-detectable levels of total oil and grease (TOG) in monitoring well MW1, we can discontinue testing for TOG in this well.

Should you have any questions regarding this matter, please do not hesitate to call me at (510) 602-5100.

Sincerely,

Kaprealian Engineering, Inc.



Corrina M. Dominguez
Technical Assistant

\cmd

DATE: Feb 26, 1992
TO : Local Oversight Program
FROM: Erachin
SUBJ: Transfer of Eligible Oversight Case

Site name: UNOCAL SVC Station # 0752
Address: 800 Harrison St. City Oak Zip 94607
Closure plan attached? N DepRef remaining \$ 426.00
DepRef Project # 105 STID #(if any) 918
Number of Tanks: 3 removed? Y N Date of removal 11-9-90
Leak Report filed? Y N ? Dep/Ref shows yes but no form found.
Date of Discovery _____
Samples received? N Contamination: Soil + Water
Petroleum N Types: Avgas Jet leaded unleaded Diesel
fuel oil waste oil kerosene solvents
Monitoring wells on site 3 Monitoring schedule? N
Briefly describe the following:
Preliminary Assessment _____
Remedial Action Soil - in situ (aeration)
Post Remedial Action Monitoring _____
Enforcement Action _____

Comments:

Soil remediated and removed for disposal at class 3 landfill.
3 MW installed - continues to show contamination
3 more proposed wells - Not yet installed - to determine extent
of contamination

90 NOV 21 PM 1:10

UNOCAL 76

November 20, 1990

Northern Division

Mr. Dennis Byrne
Alameda County Water District
80 Swan Way
Oakland, California 94604

Unocal Service Station No. 0752
8th/Harrison, Oakland, California

Dear Mr. Byrne:

This letter is to inform you that Unocal is aware of soil contamination existing in the vicinity of the former underground storage tank pit at the subject service station. It is Unocal's intention to remediate the soil contamination using an in-situ method (e.g. vapor extraction, bioremediation, etc.). The method of remediation will be determined after our consultant has delineated the extent and severity of the contamination and can recommend the most technically and economically feasible alternative.

As you are aware, the new underground storage tanks will be relocated to a new tank pit.

Should you have any questions, please feel free to call me at (415) 277-2303.

Sincerely,



Ronald E. Bock
Environmental Engineer
Unocal Corporation

REB/cmd

cc: R. D. Sisk
R. L. Folda
Mardo Kaprealian - Kaprealian Engineering, Inc.

white -env.health
 yellow -facility
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

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

Hazardous Materials Division Inspection Form

Site ID# _____ Site Name Chinatown Union Service Today's Date 11/9/20
 Site Address 800 Harrison St EPA ID# _____
 City Oakland Zip 94607 Phone _____

MAX Amt. Stored > 500lbs/55g/200cf? Y N
 Hazardous Waste generated per month? _____

- Inspection Categories:**
- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
 - II. Business Plans, Acute Hazardous Materials
 - III. Underground Tanks

The marked items represent violations of the Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

I.A GENERATOR (Title 22)

- ___ 1. Waste ID * 66471
- ___ 2. EPA ID 66472
- ___ 3. > 90 days 66508
- ___ 4. Label dates 66508
- ___ 5. Biennial 66493
- ___ 6. Records 66492
- ___ 7. Correct 66484
- ___ 8. Copy sent 66492
- ___ 9. Exception 66484
- ___ 10. Copies Rec'd 66492
- ___ 11. Treatment 66371
- ___ 12. On-site Disp. (H.S.&C.) 26189.5
- ___ 13. Ex Haz. Waste 66570
- ___ 14. Communications 67121
- ___ 15. Aisle Space 67124
- ___ 16. Local Authority 67126
- ___ 17. Maintenance 67120
- ___ 18. Training 67105
- ___ 19. Prepared 67140
- ___ 20. Name List 67141
- ___ 21. Copies 67141
- ___ 22. Emg. Coord. Trng. 67144
- ___ 23. Condition 67241
- ___ 24. Compatibility 67242
- ___ 25. Maintenance 67243
- ___ 26. Inspection 67244
- ___ 27. Buffer Zone 67246
- ___ 28. Tank Inspection 67259
- ___ 29. Containment 67245
- ___ 30. Safe Storage 67261
- ___ 31. Freeboard 67257

Comments:

Observed removal of 2 UGT's

1) 10,000 gal gas, LEL 0, O₂ - 2%
 no obvious holes
 1 soil from mid tank bottom, one from 8th St sidewalk

2) 10,000 gal gas, LEL 0, O₂ - 2%
 no obvious holes
 One soil sample from mid tank bottom, one from 8th St. sidewalk

3) 280 gal, waste oil, LEL 0, O₂ - 0%
 one hole observed at tank end seam
 One soil sample collected from under tank

I.B TRANSPORTER (Title 22)

- ___ 32. Applic./Insurance 66428
- ___ 33. Comp. Cert./CHP Insp. 66448
- ___ 34. Containers 66465
- ___ 35. Vehicles 66465
- ___ 36. EPA ID #s 66531
- ___ 37. Correct 66541
- ___ 38. HW Delivery 66543
- ___ 39. Records 66544
- ___ 40. Name/ Covers 66545
- ___ 41. Recyclables 66800

one ~~stack~~ composite sample collected from each stack pile


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Contact: _____

Title: _____

Signature: _____

Inspector: _____

Signature: 

White - env. health
 yellow - facility
 pink - files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

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

Hazardous Materials Division Inspection Form

Site ID# _____ Site Name Chinatown Union Service Today's Date 11/9/90
 Site Address 800 Harrison St EPA ID# _____
 City Oakland Zip 94607 Phone _____

MAX Amt. Stored > 500lbs/55g/200cf? Y N
 Hazardous Waste generated per month?

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

The marked items represent violations of the Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

I.A GENERATOR (Title 22)

- | | | | |
|-------------------|-----------------------------|--------------------|-------|
| ___ | 1. Waste ID | * 66471 | |
| ___ | 2. EPA ID | 66472 | |
| ___ | 3. > 90 days | 66508 | |
| ___ | 4. Label dates | 66508 | |
| ___ | 5. Biennial | 66493 | |
| <hr/> | | | |
| Manifest | ___ | 6. Records | 66492 |
| Manifest | ___ | 7. Correct | 66484 |
| Manifest | ___ | 8. Copy sent | 66492 |
| Manifest | ___ | 9. Exception | 66484 |
| Manifest | ___ | 10. Copies Rec'd | 66492 |
| <hr/> | | | |
| Misc. | ___ | 11. Treatment | 66371 |
| ___ | 12. On-site Disp. (H.S.&C.) | 26189.5 | |
| ___ | 13. Ex Haz. Waste | 66570 | |
| <hr/> | | | |
| Prevention | ___ | 14. Communications | 67121 |
| ___ | 15. Aisle Space | 67124 | |
| ___ | 16. Local Authority | 67126 | |
| ___ | 17. Maintenance | 67120 | |
| ___ | 18. Training | 67105 | |
| <hr/> | | | |
| Confir. gency | ___ | 19. Prepared | 67140 |
| ___ | 20. Name List | 67141 | |
| ___ | 21. Copies | 67141 | |
| ___ | 22. Emg. Coord. Trng. | 67144 | |
| <hr/> | | | |
| Containers, Tanks | ___ | 23. Condition | 67241 |
| ___ | 24. Compatibility | 67242 | |
| ___ | 25. Maintenance | 67243 | |
| ___ | 26. Inspection | 67244 | |
| ___ | 27. Buffer Zone | 67246 | |
| ___ | 28. Tank Inspection | 67259 | |
| ___ | 29. Containment | 67245 | |
| ___ | 30. Safe Storage | 67261 | |
| ___ | 31. Freeboard | 67257 | |

Comments:

Observed removal of 3 UGT's

1) 10,000 gal gas, LEL O, O₂ - 2%
 no obvious holes

1 soil from mid tank bottom, one from
 8th St sidewalk

2) 10,000 gal gas, LEL O, O₂ - 2%

1) Gas soil sample from mid tank bottom
 one from 8th St. sidewalk

3) 280 gal waste oil, LEL O, O₂ - 0%

one hole observed at tank end seam

One soil sample collected from
 under tank

one ~~soil~~ composite sample collected
 from each stack pile

I.B TRANSPORTER (Title 22)

- | | | | |
|----------|---------------------------|------------------|-------|
| ___ | 32. Applic./insurance | 66428 | |
| ___ | 33. Comp. Cert./CHP Insp. | 66448 | |
| ___ | 34. Containers | 66465 | |
| <hr/> | | | |
| Manifest | ___ | 35. Vehicles | 66465 |
| ___ | 36. EPA ID #s | 66531 | |
| ___ | 37. Correct | 66541 | |
| ___ | 38. HW Delivery | 66543 | |
| ___ | 39. Records | 66544 | |
| <hr/> | | | |
| Con't's | ___ | 40. Name/ Covers | 66545 |
| ___ | 41. Recyclables | 66800 | |

Contact: _____

Title: _____

Signature: _____

Inspector: _____

Signature: [Signature]

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

2/30/90
JW

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

1. Business Name UNOCAL SERVICE STATION #0752
Business Owner CHESTER C. Y. LAU
2. Site Address 800 HARRISON ST.
City OAKLAND Zip 94607 Phone (415) 832-7838
3. Mailing Address UNOCAL 2175 NO. CALIFORNIA BLVD. SUITE 650
City WALNUT CREEK, CA Zip 94596 Phone (415) 945-7676
4. Land Owner UNION OIL CO. OF CALIFORNIA, dba UNOCAL
Address 2175 NO. CALIFORNIA BLVD. #650 City, State WALNUT CREEK, CA Zip 94596
5. EPA I.D. No. CAD 982054280
6. Contractor Dan Brentas Construction
Address 2634 Pacer Lane Kenny Brentas
City San Jose 95111 Phone 408-226-1920
License Type B, C-12, C-27, A ID# _____
7. Consultant ROBERT H. LEE & ASSOC. John Gregoria
Address 900 LARKSPUR LANDING. CIRCLE #125
City LARKSPUR, CA 94939 Phone (415) 461-8390

8. Contact Person for Investigation

Name FRANK PINNELL Title FIELD ENGINEER
Phone (415) 945-7676

9. Total No. of Tanks at facility 3

10. Have permit applications for all tanks been submitted to this office?
Yes No

11. State Registered Hazardous Waste Transporters/Facilities

a) Product/Waste Transporter

Name H & H SHIP SERVICE EPA I.D. No. CAD 00477168
Address 220 CHINA BASIN
City SAN FRANCISCO State CA Zip 94107

b) Rinsate Transporter

Name H & H SHIP SERVICE EPA I.D. No. _____
Address (SAME AS ABOVE)
City _____ State _____ Zip _____

c) Tank Transporter

Name H & H SHIP SERVICE EPA I.D. No. _____
Address (SAME AS ABOVE)
City _____ State _____ Zip _____

d) Tank Disposal Site

Name H & H SHIP SERVICE EPA I.D. No. _____
Address (SAME AS ABOVE)
City _____ State _____ Zip _____

e) Contaminated Soil Transporter

Name H & H SHIP SERVICE EPA I.D. No. _____
Address (SAME AS ABOVE)
City _____ State _____ Zip _____

12. Sample Collector

Name _____
 Company KAPREALIAN ENGINEERING INC.
 Address P.O. BOX 913
 City BENICIA State CA Zip 94510 Phone (415) 676-9100

13. Sampling Information for each tank or area

Tank or Area		Material sampled	Location & Depth
Capacity	Historic Contents (past 5 years)		
10,000 GAL	GASOLINE	SOIL, GROUND WATER IF APPLICABLE	(2) CONFIRMATORY SAMPLES BENEATH EACH TANK; ONE SAMPLE AT EACH END AT NATIVE SOIL/BACKFILL INTERFACE. FOR SAMPLING PROTOCOL FOR SOIL/WATER, SEE ATTACHED.
10,000 GAL	GASOLINE		
280 GAL	WASTE OIL		

14. Have tanks or pipes leaked in the past? Yes [] No [X]

If yes, describe. _____

15. NFPA methods used for rendering tank inert? Yes [] No [X]

If yes, describe. REFER TO DWG. J-6 SECTION II,
GAS FREEING & TANK REMOVAL

An explosion proof combustible gas meter shall be used to verify tank inertness.

16. Laboratories

Name SEQUOIA ANALYTICAL LABORATORIES
 Address 2549 MIDDLE FIELD RD.
 City REDWOOD CITY State CA Zip 94063
 State Certification No. 145

17. Chemical Methods to be used for Analyzing Samples

* Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Number
TPH - GAS BTX & E	5030, SOIL/WATER	8020 -OR- 8240, SOIL 602 - OR- 624, WATER
WASTE OIL: TPH - GAS TPH - DIESEL OIL & GREASE * Cd, Cr ^{VI} , Pb, Zn	5030, SOIL/WATER 3550, SOIL 3510, WATER	503 D & E, SOIL 503 A & E, WATER AA
CHLORINATED HYDROCARBONS * PCB, PCP, PNA, Creosote	5030, SOIL/WATER	8010 -OR- 8240, SOIL 601 -OR- 624, WATER 8270

18. Submit Site Safety Plan

19. Workman's Compensation: Yes No

Copy of Certificate enclosed? Yes No

Name of Insurer _____

20. Plot Plan submitted? Yes No

21. Deposit enclosed? Yes No

22. Please forward to this office the following information within 60 days after receipt of sample results.

- a) Chain of Custody Sheets
- b) Original Signed Laboratory Reports
- c) TSD to Generator copies of wastes shipped and received
- d) Attachment A summarizing laboratory results

* IF ANY OF THESE CONTAMINANTS IS DETECTED, TESTS WILL BE RUN FOR THE FOLLOWING METALS: CADMIUM, CHROMIUM, LEAD & ZINC.

I declare that to the best of my knowledge and belief the statements and information provided above are correct and true. I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

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

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel and safety.

I will notify the Department of Environmental Health at least two (2) working days (48 hours) after approval of this closure plan in advance to schedule any required inspections. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Signature of Contractor

Name (please type) JOHN GREGORIN, PROJECT DESIGNER, ROBERT H LEE & ASSOC.,

Signature *John Gregorin* LARKSPUR, CA (CONSULTANTS FOR UNOCAL)

Date 4/23/90

Signature of Site Owner or Operator

Name (please type) ROGER FOLDA, UNION OIL CO. OF CALIFORNIA, dba UNOCAL

Signature *R J Folda*

Date 4/20/90

NOTES:

1. Any changes in this document must be approved by this Department.
2. Any leaks discovered must be submitted to this office on an underground storage tank unauthorized leak/contamination site report form within 5 days of its discovery.
3. Three (3) copies of this plan must be submitted to this Department. One copy must be at the construction site at all times.
4. After approval of plan, notification of at least two (2) working days (48 hours) must be given to this Department prior to removal of tank(s).
5. A copy of your approved plan must be sent to the landowner.
6. Triple rinse means that:
 - a) Final rinse must contain less than 100 ppm of Gasoline (EPA method 8020 for soil, or EPA method 602 for water) or Diesel (EPA method 418.1). Other methods for halogenated volatile organics (EPA method 8010 for soil, EPA method 601 for water) may be required. The composition of the final rinse must be demonstrated by an original or facsimile report from a laboratory certified for the above analyses.
 - b) Tank interior is shown to be free from deposits or residues upon a visual examination of tank interior.
 - c) Tank should be labelled as "tripled rinsed; laboratory certified analysis available upon request" with the name and address of the contractor.

If all the above requirements cannot be met, the tank must be transported as a hazardous waste.

7. Any cutting into tanks requires local fire department approval.

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

ATTACHMENT A

SAMPLING RESULTS

Tank or Area	Contaminant	Location & Depth	Results (specify units)

**REFERENCE: SITE SAFETY PLAN
UNOCAL SERVICE STATION No. 0752
800 HARRISON STREET
OAKLAND, CALIFORNIA**

SITE SAFETY PLAN - GASOLINE TANK REMOVAL

1. For underground gasoline tanks, arrange for disposal of remaining liquid contents with authorized disposal service.
2. Drain and flush all piping into tank or appropriate container.
3. Remove all flammable liquid from the tank. Use a hand pump to remove the bottom few inches of liquid.
4. Uncover tank and disconnect attached piping.
5. Prior to complete excavation and tank removal the tanks must be re-purged by the following method.

Preferred method for conditioning tank:

Make vapors inert by adding 30 lbs. of dry ice (carbon dioxide) per 1000 gal. of tank capacity.

The vapors in the tank will be made inert by adding solid carbon dioxide (dry ice) in the amount of 30 lbs. per 1000 gal. of tank capacity. The dry ice should be crushed and distributed evenly over the greatest possible area to secure rapid evaporation. As the dry ice vaporizes, flammable vapors will flow out of the tank and may surround the area. Hence, observe all normal safety precautions regarding flammable vapors. Make sure that all of the dry ice has vaporized.

After the tank has been freed of vapors and verified to below 10% of the lower explosive level using calibrate has detector, and prior to moving tank from the site, plug or cap all holes. One tank fitting plug should have a 1/8" vent hole to prevent the tank from being subjected to an excessive pressure differential caused by extreme temperature changes.

6. Temporarily plug all tank openings, complete excavation and remove the tank; placing it in a secure location. Block the tank to prevent movement. USE EXTREME CAUTION DURING REMOVAL OPERATION.
7. Remove tanks and secure at grade.
8. No fiberglass or steel tank shall be reused. Render all tanks useless after removing from site.

9. As an added precaution, regardless of condition, the tanks shall be labeled adjacent to the fill opening in legible letters as follows:

"TANKS HAVE CONTAINED FLAMMABLE LIQUIDS
NOT GAS-FREE
NOT SUITABLE FOR FOOD OR DRINKING WATER"

10. Assure tank disposal is in accordance with governing regulations.
11. Company Representative and Contractor shall inspect open excavation for evidence of product leakage.
12. The Contractor shall have the following items on site:
- a) Fire extinguishers
 - b) LEL meter
 - c) First Aid Kit
 - d) Hard hat and protective clothing for all personnel
 - e) Access to an Industrial Hygienist
13. A 6'-0" high removable chain link fence shall be placed around the entire property at all times during construction.

EMERGENCY PLAN

In the event of an accident, the Contractor shall proceed with the following steps:

- 1) Dial 911 and provide the following information:
- "THERE IS A)FIRE OR DANGEROUS SPILL) AT 800 HARRISON STREET, OAKLAND, CA" If anyone is trapped or needs medical attention, tell the answering dispatcher. Stay on the phone and be prepared to answer any questions concerning the situation.
- 2) Attend any injured persons and direct incoming assistance to them.
- 3) Attempt to extinguish any fire in you can do so safely. Have the extinguisher ready to use in the event of any dangerous spill. Try to contain any spill, or use absorbent on smaller spills.
- 4) Report to arriving emergency response personnel to provide them any information or assistance they may need.
- 5) Notify the following:

UNOCAL Representative, Tim Ross	415/945-7676
Alameda County Environmental Health	415/874-0500
State Office of Emergency Services	800/852-7550
	(24 hrs)