

ALAMEDA COUNTY
HEALTH CARE SERVICES



SCWT
11-18-05

AGENCY
DAVID J. KEARS, Agency Director

November 17, 2005

Mr. Dana Thurman
Chevron
6001 Bollinger Canyon Rd., K2236
San Ramon, CA 94583-2324

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

Dear Mr. Thurman:

Subject: Fuel Leak Case RO0000405, Chevron Station #9-8341, 3530 MacArthur Blvd.,
Oakland, CA 94619

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the subject site including the September 16, 2004 Investigation Workplan by Cambria. The work plan proposes one additional up-gradient boring and one additional down-gradient monitoring well to further investigate the lateral and vertical extent of the hydrocarbon and oxygenate plume originating from this site. We concur with the work proposed, however, we believe that additional investigation, beyond that proposed, is required to progress to site closure. We request that you address the following technical comments when performing this work and submit the technical report requested below.

TECHNICAL COMMENTS

1. Conduit Study- The prior June 28, 1999 Utility Survey Report performed by Pacific Environmental Group concluded that "some utility lines downgradient of the site may affect the potential migration of MTBE and gasoline constituents in groundwater". Correspondence from our office requested that Chevron further investigate this potential, however, no follow-up, either in writing or field work has apparently been done. Please respond to this concern as requested below.
2. Contaminant Plume Definition- The purpose of contaminant plume definition is to determine the three-dimensional extent of contamination (MTBE, petroleum products, and associated blending compounds and additives) in soil and groundwater from the unauthorized release at your site. Using your rose diagram and the sources identified in soil and groundwater will help identify areas of concern and potential data gaps. We request that you perform a detailed, expedited site assessment using depth discrete sampling techniques on borings installed along transects to define and quantify the full three-dimensional extent of MTBE and oxygenates, Total Petroleum Hydrocarbons and BTEX in groundwater. Therefore, although the one down-gradient well proposed may be within the plume, the full lateral and vertical extent will still not be confirmed. Although boring locations are limited due to site constraints, we believe the plume can be characterized by drilling additional borings on the south side of MacArthur Blvd. and by taking multi-level depth discrete soil and groundwater samples. Please provide a work plan addendum for this work as requested below.

3. Groundwater Contaminant Plume Monitoring- Prior correspondence from our office raised concerns regarding water samples collected from the existing monitoring wells. Both the screen depth and interval in the wells could possibly compromise analytical results. Please use the results from your contaminant plume investigation to design an appropriate construction for the proposed well. Generally, screen intervals should not be greater than 10' in length. This decision should be made in the field as part of your expedited site assessment.

TECHNICAL REPORT REQUEST

Please submit the following technical report according to the following schedule:

- December 19, 2005- Conduit study follow-up
- December 19, 2005- Work plan addendum

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) now request submission of reports in electronic form. The electronic copy is intended to replace the need for a paper copy and is expected to 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 Instructions." 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. 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 monitoring wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all reports is required in Geotracker (in PDF format). Please visit the State Water Resources Control Board for more information on these requirements ([http://www.swrcb.ca.gov/ust/cleanup/electronic reporting](http://www.swrcb.ca.gov/ust/cleanup/electronic%20reporting)).

PERJURY STATEMENT

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

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

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

UNDERGROUND STORAGE TANK CLEANUP FUND

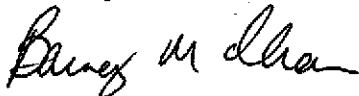
Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

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

If you have any questions, please call me at (510) 567-6765.

Sincerely,



Barney M. Chan
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: files, D. Drogos

Ms. Christene Sunding, Cambria Environmental, 4111 Citrus Ave., Suite 9, Rocklin,
CA, 95677

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



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

June 25, 2003

Karen Streich
Chevron USA, Inc.,
Site Assessment & Remediation
6001 Bollinger Canyon Rd. V1132
PO Box 6004
San Ramon, CA 94583-0904

Dear Ms. Streich,

Subject: Fuel Leak Case No. RO0000405; Chevron Service Station #9-8341,
3530 MacArthur Blvd., Oakland, CA

Alameda County Environmental Health staff has reviewed "Additional Assessment Workplan" dated June 18, 2003 and "Revised Fig. 2 - Proposed borings locations" dated June 18, 2003, both by Cambria Environmental Technology, Inc., and generally concur with the work proposed. The work proposed satisfies the onsite phase of the investigation requested and is approved. We request that you address the following technical comments, perform the proposed work, and send us the technical reports requested below.

TECHNICAL COMMENTS

- 1) Soil Sampling - The sampling protocol in addition to collecting samples a minimum of every 5 ft., shall also include at changes of lithology, at the soil/groundwater interface, and at areas of obvious contamination.
- 2) Lateral and Vertical Delineation of the Plume undefined - Offsite investigation will be need to be addressed in the future.

TECHNICAL REPORT REQUEST

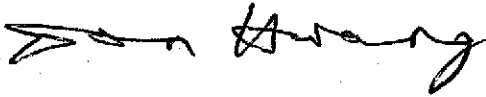
Please submit the following technical reports to Alameda County Environmental Health (Attention: Don Hwang), by August 31, 2003 and Quarterly Groundwater Monitoring Reports within 30 days of the end of each quarter:

- 1) Soil and Water Investigation Report
- 2) Quarterly Groundwater Monitoring Report, 3rd Quarter 2003

Ms. Streich
June 25, 2003
Page 2 of 2

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

Sincerely,

A handwritten signature in black ink, appearing to read "Don Hwang". The signature is fluid and cursive, with a long horizontal stroke at the end.

Don Hwang
Hazardous Materials Specialist
Local Oversight Program

C: Robert Foss, Cambria Environmental Technology, Inc., 5900 Hollis St., Emeryville, CA
94608
Donna Drogos
File

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



12-8-02

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

December 4, 2002

Karen Streich
Chevron USA, Inc.,
Site Assessment & Remediation
6001 Bollinger Canyon Rd. V1132
PO Box 6004
San Ramon, CA 94583-0904

Dear Ms. Streich,

Subject: Fuel Leak Case No. RO0000405; Chevron Service Station #9-8341,
3530 MacArthur Blvd., Oakland, CA

Alameda County Environmental Health staff has reviewed "3rd Quarter Event of August 2, 2002, Groundwater Monitoring & Sampling Report" by Gettler-Ryan, Inc. Contaminant concentrations in monitoring wells MW-1, MW-2, and MW-3, followed historical trends. MW-1 and MW-3 historically have nearly always been nondetectable for all constituents. The 610 ug/l methyl tertiary-butyl ether (MTBE) found in MW-3 on May 7, 2002 was an anomaly. MW-2 historically has been nondetectable for all constituents with the exception of MTBE. On August 2, 2002, MTBE was 490 ug/l in MW-2. MTBE concentrations in MW-2 have fluctuated widely from quarter to quarter. We request that you address the following technical comments and send us the technical reports requested below.

TECHNICAL COMMENTS

- 1) Lateral and Vertical Delineation of the Plume undefined – Up to 5,800 ug/l dissolved phase MTBE has been found in MW-2 which is located by the property line. To site additional monitoring wells, propose locations for borings. To monitor the vertical range of the plume, we request that your monitoring network include depth discrete monitoring for onsite and offsite locations. Generally, the screened intervals should be 3 to 5 feet in length. Include your proposal for plume delineation in the workplan requested below.
- 2) Evaluation of Conduit Diversion/Interception of the Plume required – Include your proposal.
- 3) Well Survey required – List wells within a quarter mile radius of the site. Indicate which of these may be potential receptors.

- 4) Historical Gradient – Please show using a rose diagram and also include magnitude and direction.
- 5) Source Area Investigation - Soil samples collected after over excavation of the piping trenches on May 2, 1994 were as high as 1300 mg/kg total petroleum hydrocarbons as gasoline (TPH-G), 6 mg/kg benzene, 33 mg/kg ethyl-benzene, found in PX-8. None of the onsite monitoring wells were within 10 feet of the former fuel tanks, and in the downgradient direction. To delineate the contamination from the former dispensers and fuel tanks, and to locate a well to meet these requirements, propose locations for borings.
- 6) Soil and Groundwater Analyses – Please analyze all soil and groundwater samples for Total Petroleum Hydrocarbons-Gasoline (TPH-G), Benzene, Toluene, Ethyl Benzene, Xylene (BTEX), and MTBE. Additionally, for groundwater samples, analyses for the fuel oxygenates MTBE, Tertiary Amyl Methyl Ether (TAME), Ethyl Tertiary Butyl Ether (ETBE), Di-Isopropyl Ether (DIPE), and Tertiary Butyl Alcohol (TBA), by EPA Method 8260, is required. Also, include Ethylene Dibromide (EDB), Ethylene Dichloride (EDC), and Ethanol. After the initial round of sampling, sample for any of these contaminants found in subsequent quarters. Include these analyses in the workplan requested below.
- 7) Legitimacy Statement – All technical reports shall be accompanied by a letter signed by an officer or legally authorized representative of the responsible party that states, at a minimum: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached proposal or report is true and correct to the best of my knowledge."
- 8) Utility Survey Report dated June 28, 1999 missing - Please submit.

TECHNICAL REPORT REQUEST

Please submit the following technical reports to the Alameda County Environmental Health (Attention: Don Hwang), Workplan by January 31, 2003 and Quarterly Groundwater Monitoring Reports within 30 days of the end of each quarter:

- 1) Workplan including:
 - Proposed locations for borings to delineate the groundwater contaminant plume.
 - Monitoring network screened intervals.
 - Conduit Survey.
 - Well Survey.
 - Historical Gradient.
 - Proposed locations for borings to delineate the contamination from the former fuel tank and dispensers.
 - Soil and Groundwater Analyses.
- 2) Quarterly Groundwater Monitoring Report, 4th Quarter 2002
- 3) Quarterly Groundwater Monitoring Report, 1st Quarter 2003
- 4) Quarterly Groundwater Monitoring Report, 2nd Quarter 2003
- 5) Quarterly Groundwater Monitoring Report, 3rd Quarter 2003

Ms. Streich
December 4, 2002
Page 3 of 3

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

Sincerely,

A handwritten signature in black ink, appearing to read "Don Hwang". The signature is written in a cursive style with a prominent "H" and a long, sweeping tail.

Don Hwang
Hazardous Materials Specialist
Local Oversight Program

C: File

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



CORRECTION
06-11-01

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

June 7, 2001

Tom Bauhs, Project Manager
Chevron Products Co.
Site Assessment & Remediation
6001 Bollinger Canyon Rd., V1132
PO Box 6004
San Ramon, CA 94583-0904

Re: Chevron Service Station #9-8341, 3530 MacArthur Blvd., Oakland, CA;
RO0000405


Dear Mr. Bauhs:

This office has reviewed "2nd Quarter Event of April 5, 2001, Groundwater Monitoring and Sampling Report" dated May 9, 2001 by Gettler-Ryan, Inc., for the facility referenced. Monitoring wells MW-1, MW-2, and MW-3, were sampled on April 5, 2001 for total petroleum hydrocarbons as gasoline (TPH-G), benzene, toluene, ethyl benzene, xylene (BTEX), and methyl tertiary-butyl ether (MTBE). Monitoring well MW-2 had a MTBE groundwater concentration of 5,500 ug/l, which was among the highest found in this well historically. Monitoring wells MW-1 and MW-3 again had nondetectable concentrations for all constituents.

For the third quarter 2001, there will be another round of groundwater monitoring as well as the installation of another groundwater monitoring well. We await reports of these activities. If you have any questions, call me at (510) 567-6746.

Sincerely,


Don Hwang
Hazardous Materials Specialist

C:  Jim Brownell, Delta Environmental Consultants, Inc., 3164 Gold Camp Dr., Suite 200,
Rancho Cordova, CA 95670-6021

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

file

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



R0405

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

September 16, 1999

Brett Hunter
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583-0904

STID: 1042

Re: Required investigations at Chevron Service Station #9-8341, located at 3530 MacArthur Blvd., Oakland, CA

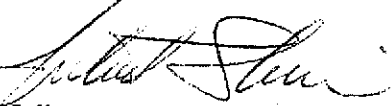
Dear Mr. Hunter,

This office sent Chevron a letter on July 09, 1999 requiring that a workplan be submitted to address additional groundwater investigations at the above site by September 10, 1999 (please refer to the attached copy of the July 09, 1999 letter.) Per our conversation on September 16, 1999, preparation of this workplan has not yet begun. **A workplan addressing all the required work outlined in the July 09, 1999 letter is due to this office within 45 days of the date of this letter, (i.e., by October 28, 1999).** Any request for modifications of the workplan or extensions of the due date should be submitted in writing for our review and approval.

Additionally, per our conversation, elevated contaminant levels were identified in confirmatory soil samples PX-1 through PX-11, which were collected from the overexcavated piping trenches in 1994. Some of these concentrations exceed the Tier 1 table residential and commercial threshold values for a 10^{-5} risk, given in the American Society for Testing and Materials' Risk-Based Corrective Action guidelines. Therefore, this office is requesting that you submit a Tier 2 risk assessment addressing any potential human-health threat that this residual soil contamination may pose to the occupants of the site.

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

Sincerely,


Juliet Shin, R.G.
Hazardous Materials Specialist

ATTACHMENT

Cc: Leroy Griffin
Oakland Hazardous Materials
505 14th St., Ste 702
Oakland, CA 94612

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



ROTOS

ENVIRONMENTAL HEALTH SERVICES

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

July 09, 1999

Philip R. Briggs
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583-0904

STID: 1042

Re: Investigations at Chevron Service Station #9-8341, located at 3530 MacArthur Blvd.,
Oakland, CA

Dear Mr. Briggs,

This office has reviewed the Utility Survey Report, dated June 28, 1999, and the Second Quarter Groundwater Monitoring Report, dated May 27, 1999, for the above site. This office actually received two copies of the referenced monitoring report, however, only one copy needs to be submitted in the future.

Per the results of the Utility Survey and our conversation on July 09, 1999, storm and sanitary sewer lines which lie at depths commensurate to the surrounding groundwater were identified along the streets bounding the two downgradient sides of the site: Magee Avenue and MacArthur Blvd. Due to the possibility that the utility line trench materials could be acting as preferential flow paths for the site's contaminant plume, this office is requiring that both these areas be addressed as part of the planned plume delineation work.

Per our conversation, the screened intervals of the on-site monitoring wells, MW-1 through MW-3, may not be allowing for the collection of representative groundwater samples. The screened interval of all three wells begin at 7-feet below ground surface (bgs), however, the average water levels in the wells are significantly above this screen depth at 4.7-feet bgs for Wells MW-2 and MW-3 and 5.4-feet bgs for Wells MW-1. Therefore, it is possible that some of the contaminants that tend to float at the top of the water table, such as TPHg and BTEX, are not being captured during the sampling events. Additionally, the length of the screens, which average over 20 feet, are a little longer than the standard screen interval of 15 feet, and may be contributing to some dilution of the contaminant concentrations.

Due to concerns about the screened intervals of the on-site monitoring wells, this office is requiring that one groundwater sample be collected from a hydropunch or temporary well placed adjacent to the site's "hottest" well, Well MW-2, and that another groundwater sample be collected from Well MW-2 concurrently. The analytical results of these two samples shall be compared to confirm whether historical sample results from Well MW-2 have been accurate. If the analytical results from these two sample points are significantly different, a permanent well with an acceptable screened interval shall be installed adjacent to Well MW-2. The groundwater samples shall be analyzed for TPHg, BTEX, and MTBE. The temporary sample point adjacent to Well MW-2 must be purged prior to sampling and must have a 10-foot long screened interval that screens across the water table.

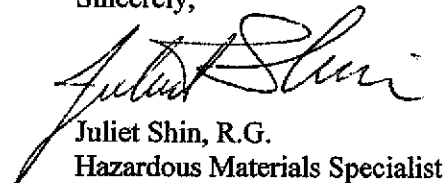
Philip Briggs
Re: 3530 MacArthur Blvd.
July 09, 1999
Page 2 of 2

A workplan addressing the above required work should be submitted to this office within 60 days of the receipt of this letter (i.e., by ~September 10, 1999). Although a workplan for plume delineation was submitted to and approved by this office in June 1998, the proposal was for one permanent monitoring well across MacArthur Blvd. With the current knowledge of the utility line locations lying between the site and the proposed monitoring well, you should submit, at a minimum, an addendum to this plan to address the potential diversion/interception of the contaminant plume by the utility lines, as well as the above required additional on-site groundwater sampling.

Lastly, this office is currently missing the groundwater monitoring reports for the sampling that took place on 04/03/98 and 10/26/98. We would greatly appreciate it if you would send us another copy of both of these reports for our review.

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

Sincerely,



Juliet Shin, R.G.
Hazardous Materials Specialist

Cc: Leroy Griffin, Oakland Hazardous Materials

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY



DAVID J. KEARS, Agency Director

RO# 405

February 19, 1999
STID 1042

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

Philip Briggs
Chevron USA Inc.
P.O. Box 5504
San Ramon, CA 94583-0804

re: 3530 MacArthur Blvd., Oakland, CA 94619

Dear Philip Briggs:

This office has received and reviewed a Quarterly Groundwater Monitoring Report, dated December 30, 1998, by Blaine Tech Services for the above site. The following are comments concerning this document.

1. There is a proposal to evaluate MTBE contamination in the down gradient direction by installing one monitoring well. This is acceptable but it may be better to do several hydropunches to get a better picture of the migration of the MTBE. The groundwater appears to be only 9 ft. down and the proposed well locations are across MacArthur Blvd.
2. The report confirms that MTBE is still a significant problem of unknown extent. The drop this last quarter from 3900 to 1200 is not significant as the MTBE levels have gone up and down in that range for the last 3 years. It was even below 1200 in October 1997. For 3 years in a row the level has risen in the spring and dropped in the fall. The other petroleum constituents do not appear significant any more.

I look forward to the next round of sampling. Please call this office prior to implementation of field work or with any questions at (510) 567-6782.

Sincerely,

Thomas F. Peacock, Manager
Environmental Protection Division

c: Francis Thie, Blaine Tech Services, Inc., 1680 Rogers
Ave., San Jose, CA 95112-1105
Dick Pantages, Chief - files (Tom)
LeRoy Griffin, City of Oakland Hazardous Materials

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



RO#405

October 15, 1998
STID 1042

Philip Briggs
Chevron USA Inc.
P.O. Box 5504
San Ramon, CA 94583-0804

ENVIRONMENTAL HEALTH SERVICES

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

re: 3530 MacArthur Blvd., Oakland, CA 94619

Dear Philip Briggs:

This office has received and reviewed a Work Plan for additional investigation dated June 6, 1998 by Pacific Environmental Group, Inc. and a Quarterly Groundwater Monitoring Report, dated September 2, 1998, by Gettler-Ryan Inc., with your cover letter dated September 18, 1998, for the above site. The following are comments concerning these documents.

1. The proposal to evaluate MTBE contamination in the down gradient direction is to install one monitoring well. This is acceptable but it may be better to do several hydropunches to get a better picture of the migration of the MTBE. The groundwater appears to be only 9 ft. down and the proposed well locations are across MacArthur Blvd.
2. The later report confirmed that MTBE is still a significant problem of unknown extent. The other petroleum constituents do not appear significant any more.

Please call this office with any questions at (510) 567-6782.

Sincerely,

Thomas F. Peacock, Manager
Environmental Protection Division

c: Deanna Harding, Gettler-Ryan, Inc., 6747 Sierra Ct., Suite
J, Dublin, CA 94568
Dick Pantages, Chief - files
LeRoy Griffin, City of Oakland Hazardous Materials
James Perkins, Pacific Environmental Group, Inc. 2025
Gateway Place, Suite 440, San Jose, CA 95110

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



Rotos

12 June, 1998

STID 1042

Philip Briggs
Chevron USA Inc.
P.O. Box 5504
San Ramon, CA 94583-0804

ENVIRONMENTAL HEALTH SERVICES

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

re: 3530 MacArthur Blvd., Oakland, CA 94619

Dear Philip Briggs:

This office has received and reviewed a Quarterly Groundwater Monitoring Report, dated March 16, 1998, by Gettler-Ryan Inc., with your cover letter dated April 30, 1998, for the above site. The following are comments concerning this report.

1. The high concentrations of MTBE around MW-2 remain, at 2,800 ppb. Your cover letter said that MTBE concentrations declined in this well when the report said that they went back up from the previous quarter.
2. This office is expecting a workplan for further investigation, as you mentioned in your cover letter.

Please call this office with any questions at (510) 567-6782.

Sincerely,

Thomas F. Peacock, Manager
Environmental Protection Division

c: Deanna Harding, Gettler-Ryan, Inc., 6747 Sierra Ct., Suite
J, Dublin, CA 94568
Dick Pantages, Chief - files
LeRoy Griffin, City of Oakland Hazardous Materials

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



RO# 405

April 21, 1998
STID 1042

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

Phil Briggs, Tammy Hodge
Chevron U.S.A., Inc.
P.O. Box 5004
San Ramon, CA 94583-0804

RE: 3530 Mac Arthur Blvd., Oakland, CA 94619

Dear Mr. Briggs:

This office has received and reviewed a Groundwater Monitoring and Sampling Report by Gettler-Ryan Inc. dated August 20, 1997 for the above site. The following are comments concerning this site:

1. The high levels of MTBE (up to 2,300 ppb) in MW-2 require additional investigation in the downgradient direction. MW-2 is the downgradient well and it does not appear there are any sampling points nearby. The levels going back over a year do not seem to be going down, either.
2. You are directed to submit a workplan for further investigation to this office within 60 days, to investigate the extent of MTBE contamination.

If you have any questions, please contact this office at (510) 567-6782.

Sincerely,

Thomas Peacock, Manager
Division of Environmental Protection

c: Dick Pantages, Chief - files



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

December 7, 1995

Mr. Kenneth Kan
Chevron U.S.A
P.O. Box 5004
San Ramon, CA - 94583

Ref: Response to letter dated in November 30, 1995 in regards to workplan submitted for 3530 Macarthur Boulevard, Oakland, CA STD 1042

Dear Mr. Kan:

I am in receipt of your letter dated November 30, 1995 sent in response to my comments on your February 1995 workplan, submitted by Canonie Environmental for the above referenced property. Given below is this Department's response to your comments:

1. You had mentioned that by locating the wells further apart from each other, a larger potentiometric surface plane will be created and this will provide a better approximation of the direction of groundwater. This may be true in instances where the wells are located less than 40 to 50 feet from each other. However, since the proposed location of the monitoring well, MW-2 is nearly 120 feet from the pump island, this Department had recommended that the well be located within 20 to 25 feet of the pump island and this modification will not bring the wells closer than 50 feet to each other. If the monitoring wells are placed significantly apart from each other, the measured gradient may not be representative of the local conditions and which in some instances differ from the regional groundwater gradient. Also, this Department recommends moving monitoring well, MW-1 to a location closer to the underground storage tank area as this may give indication to any past or existing leaks/spills in this area. I have enclosed a copy of the site map with the recommended location for monitoring wells, MW-1 and MW-2.

2. As I mentioned in my previous letter, in addition to knowing the extent of groundwater plume migration, it is important to determine the contaminant concentrations near the main source of leak/spill. The laboratory results of soil samples collected subsequent to removal of the product piping indicated significant concentrations of gasoline upto 1300 ppm, and benzene upto 1300 ppb near the pump island. As this data indicates the pump island to be the main source of contamination, it is important to determine if the soil contamination in this area has affected the groundwater quality.

3. Please correct your records that this Department is fully aware that the Tri-Regional Valley Guidelines (TRG) is only a recommendation and no mention was made of the TRG being used as a requirement in my letter dated November 11, 1995. However, the

TRG is used by this Department when applicable as one of the available resources for making logical decisions.

4. Placing a downgradient well more than 100 feet away from the likely source of contamination may not provide enough data to this Department to make decisions regarding closure. As you may know, this Department usually evaluates the groundwater conditions for reasons of closure using at least 4 quarters of groundwater monitoring data. However, without data from a monitoring well located within 30 feet from the main source of contamination, it is difficult to make decisions regarding closure, regardless of the concentrations found in other monitoring wells. Hence, it is to Chevron's benefit to re-locate monitoring wells, MW-1 and MW-2 to obtain data that can be used by this Department to evaluate the risk to public health and groundwater quality due to any contamination present on site.

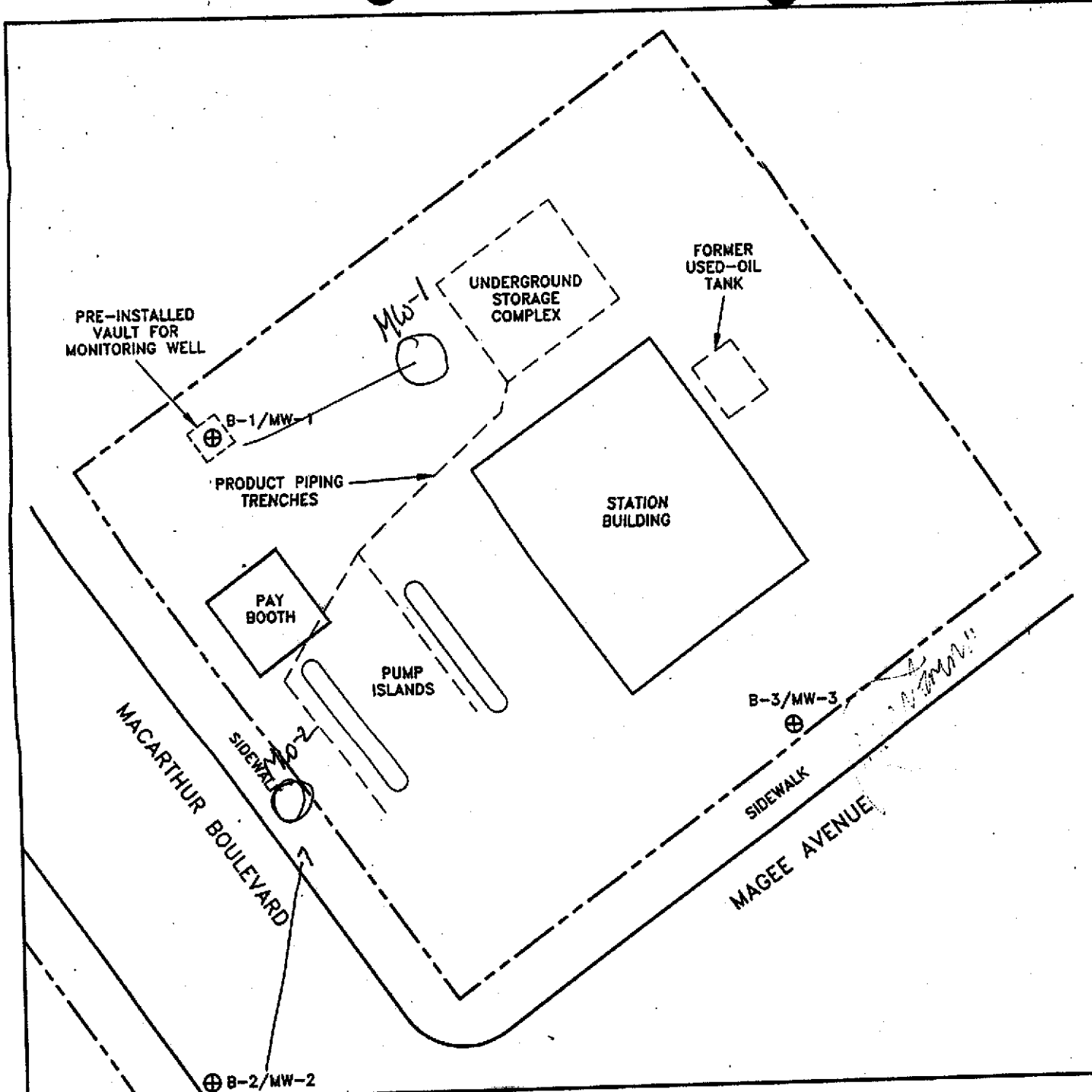
Hopefully, this response provides clarification to your comments. **Please provide a modified workplan to this Department within 15 days from the receipt of this letter.** If you have any questions, you can reach me at (510) 567-6764.

Sincerely,



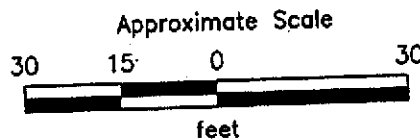
Madhulla Logan,
Hazardous Material Specialist

C: Gordon Coleman, Acting Chief/files



LEGEND

B-3/MW-3 ⊕ = PROPOSED GROUNDWATER MONITORING WELL



SOURCE: MODIFIED FROM PLAN SUPPLIED BY TOUCHSTONE DEVELOPMENTS

Canonie Environmental

DRAWING NO. 94-221-A2

GENERALIZED SITE PLAN
CHEVRON SERVICE STATION 9-8341
3530 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

FIGURE
2

**ALAMEDA COUNTY
HEALTH CARE SERVICES**

AGENCY
DAVID J. KEARS, Agency Director



R0405

① Globe Metals Co. @ 1820 10th St.
- Not in Envision
- In Geotracker: LUFT, OPEN
Lead: RW&CB
Local: ACEH

② BASF Corp. @ 1545 Willow St.
- Not in Envision
- In Geotracker: LUFT, CLOSED (11/4/94)
Lead: RW&CB

③ Encinal Marina @ 2051 Grand St.
- Not in Envision
- In Geotracker: SUC, OPEN
Lead: RW&CB

④ Chevron @ 3360 1st St.: LUFT, OPEN
Lead: RW&CB

18
sion
250

November 29, 1995

Mr. Thomas A. Geisler
California R.W.Q.C.B.
2101 Webster St., Ste. 500
Oakland CA 94612

Re: Alameda County Health Agency Sites with Lead Agency as "LI" (Inactive).

⑤ East Bay Bmw
3830 Old Santa Rita Rd
LUFT, OPEN
Lead: RW&CB
Local: ACEH

Dear Mr. Geisler:

OAKLAND		
	7-Eleven	22350 Harrison St.
(R0553)	Auto Service Station	9000 14th St. E.
(R0650)	BART	3924 Martin Luther King
(R0306)	Cal East Foods	505 Cedar St.
(R0604)	Pressure Cast Co.	4201 14th St. E.
(R0847)	Soc. of St. Vincent De Paul	9235 San Leandro St.
	Unknown	1549 40th Ave.
(R0298)	Unocal	3070 Fruitvale Ave.
	BASF Corp.	1545 Willow St.
(R0116)	Bramalea Pacific	1111 Broadway
(R0881)	Kelley Auto Parts	4400 Telegraph Ave.
	R.D. Miner Co.	750 37th St.
(R0585)	Huntington Labs	700 Kevin St.
	Globe Metals Co.	1820 10th St.
(R01060)	Schaffer's Meat Co.	1110 98th Ave.
(R0405)	Chevron	3530 MacArthur Blvd.
(R0612)	Right Parking	1225 Webster St.
(R010)	Port of Oakland Bldg. C-01	2277 7th St.
(R0145)	Auto Tech West	2703 Martin Luther King
(R033)	Port of Oakland trans Bay IT	707 Ferry St.
(R0468)	New Genico	3927 14th St. E.
		Not LOP
		#3232 (EC)
		#406 (EC)
		#3971 (SH)
		#101 (BC)
		#4306 (EC)
		Not LOP/No SLIC
		Not LOP/Mod. closed
		Not LOP, SLIC case, clsd 11/29/94
		#3664
		Not LOP. Removal ust
		Not LOP/No SLIC
		#4418 (CL)
		Not LOP/SLIC case open
		#3957 (EC)
		#1042 (ML)
		#5284 (JE)
		#3899 (JE)
		#454 (JE)
		#3982 (JE)
		#4610 (BC)
ALAMEDA		
	Encinal Marina	2051 Grand St.
		Not LOP
DUBLIN		
(R01069)	Agorra Building Supply	5965 Dougherty Rd.
		#4107 (EC)

LIVERMORE

Sweetwater Forest Fire Sta.	47405 Mines Rd.	Not LOP. Depref case open
Chevron	3360 1st St.	Not LOP. SLIC case open
(R0436) Unocal	1771 1st St. N.	Not LOP. Ust removal open

PLEASANTON

East Bay BMW	3830 Old Santa Rita Rd.	Not LOP/No SLIC
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Last column are site id numbers for LOP cases. These are not inactive. Please correct your records.
Thank you.

Sincerely,



Thomas Peacock
LOP Manager

TP/na

C: John Kaiser, R.W.Q.C.B.

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



R0405

RAFAT A. SHAHID, DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6700

November 21, 1995

Mr. Kenneth Kan
Chevron U.S.A
P.O Box 5004
San Ramon, CA - 94583

STID 1042

Ref: Response to Workplan for 3530 Macarthur Blvd, Oakland, CA

Dear Mr. Kan:

This Department has reviewed the workplan submitted by Canonic Environmental for the above referenced site. During the removal of product piping on site, confirmation sample results obtained after overexcavation indicated the presence of up to 1300 ppm of TPHg and up to 6 ppm of benzene.

Based on the information submitted to this Department, the workplan should be modified to address the following concerns:

1. The workplan mentions that soil samples will be collected every 5 feet but based on the photoionization detector (PID) readings, only selected samples will be analyzed for hydrocarbons. Since the workplan has proposed a limited number of borings (3 proposed borings), this Department requires that all soil samples collected every 5 feet, regardless of the PID readings be analyzed for BTEX and TPHg.
2. Based on an assumed groundwater gradient to the southwest, as mentioned in your workplan, and the presence of significant contamination along the former product piping, please give a rationale for the proposed location of monitoring wells, MW-1 and MW-2. Monitoring well, MW-1 is located approximately 30 feet and MW-2 is located approximately 100 feet from the product piping respectively. Based on the Tri-regional Valley Guidelines, atleast 1 monitoring well should be placed within 10 feet from the product piping. In addition to knowing the extent of groundwater plume, it is important to determine the realistic concentrations present around the area of investigation. This would require that atleast 2 monitoring wells be placed at the downgradient/cross gradient direction at a reasonable distance (within 50 feet) from the product piping. Also, this would give information on the extent of soil contamination that has migrated from the area of investigation.

Please submit a letter/workplan to address the above listed concerns within 30 days. If you have any question, you can reach me

at (510) 567-6764.

Sincerely,

ML *Madhulla Logan*

Madhulla Logan
Hazardous Material Specialist

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



R0405

RAFAT A. SHAHID, Assistant Agency Director

August 16, 1994

Mr. Kenneth Kan
Chevron U.S.A., Inc.
P.O. Box 5004
San Ramon, CA 94583-0804

Alameda County CC 4580
Health Care Services Agency
Dept. Of Environmental Health
1131 Harbor Bay Pkwy 2nd Flr.
Alameda, CA 94502-6577

STID 1042

Re: Required investigations at Chevron Service Station No.
9-8341, located at 3530 MacArthur Blvd., Oakland, CA

Dear Mr. Kan,

This office has reviewed Touchstone Developments' Waste Oil Tank and Product Line Removal Report, dated June 28, 1994, for the above site. Soil samples collected from beneath the product piping identified up to 1,300 ppm TPHg and 6 ppm benzene from approximately 5-feet below ground surface (bgs). Details from the waste oil tank removal indicated that ground water was located at approximately 6-feet bgs. Therefore, based on the fact that the depth-to-water is nearly equal to the depth of the soil contamination, it appears that ground water may have been impacted.

Guidelines established by the California Regional Water Quality Control Board (RWQCB) require that soil and ground water investigations be conducted when there is evidence to indicate that a release from an UST will impact or may have impacted the ground water.

You are required to conduct a **Preliminary Site Assessment (PSA)** to determine the lateral and vertical extent and severity of soil and ground water contamination resulting from the release at the site. The information gathered by the PSA will be used to determine an appropriate course of action to remediate the site, if deemed necessary. The PSA must be conducted in accordance with the RWQCB's Staff Recommendations for the Initial Evaluation and Investigation of Underground Tanks, and be consistent with requirements set forth in Article 11 of Title 23, California Code of Regulations. The major elements of such an investigation are summarized in the attached **Appendix A**. The major elements of the guidelines include, but are not limited to, the following:

- o At least one permanent ground water monitoring well must be installed within 10 feet of the observed soil contamination, oriented in the confirmed downgradient direction relative to groundwater flow. In the absence of neighboring monitoring wells located within 100 feet of the

Mr. Kenneth Kan
Re: 3530 MacArthur Blvd.
August 16, 1994
Page 2 of 3

site, or any other data identifying the confirmed downgradient direction, a minimum of three wells will be required to verify gradient direction.

- o Subsequent to the installation of the monitoring wells, these wells must be **surveyed to an established benchmark**, (i.e., Mean Sea Level) with an accuracy of 0.01 foot. Ground water samples are to be collected and analyzed quarterly, and water level measurements are **to be collected monthly for the first year**, and then quarterly thereafter.

This Department will oversee the assessment and remediation of your site. Our oversight will include the review of and comment on work proposals and technical guidance on appropriate investigative approaches and monitoring schedules. The issuance of well drilling permits, however, will be through the Alameda County Flood Control and Water Conservation District, Zone 7, in Pleasanton. The RWQCB may choose to take over as lead agency if it is determined, following the completion of the initial assessment, that there has been a substantial impact to ground water.

The PSA proposal is due within 60 days of the date of this letter. Once the proposal is approved, field work should commence within 60 days. A report must be submitted within 45 days after the completion of this phase of work at the site. Subsequent reports are to be submitted quarterly until this site qualifies for final RWQCB "sign-off".

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

- o Details and results of all work performed during the designated period of time: records of field observations and data, boring and well construction logs, water level data, chain-of-custody forms, laboratory results for all samples collected and analyzed, tabulations of free product thicknesses and dissolved fractions, etc.
- o Status of ground water contamination characterization.
- o Interpretations of results: water level contour maps showing gradients, free and dissolved product plume

Mr. Kenneth Kan
Re: 3530 MacArthur Blvd.
August 16, 1994
Page 3 of 3

definition maps for each target component, geologic cross sections, etc.

- o Recommendations or plans for additional investigative work or remediation.

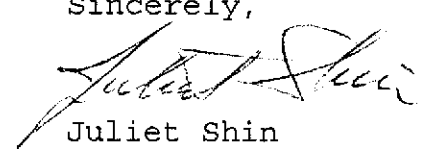
Please be advised that this is a formal request for a work plan pursuant to **Section 2722 (c) (d) of Title 23 California Code of Regulations**. Any extensions of the stated deadlines, or modifications of the required tasks, must be confirmed in writing by either this agency or RWQCB.

According to Touchstone's report, excavated soil was hauled to Forward Landfill in Stockton and Redwood Landfill in Novato. Please submit the documentation for this soil disposal and the manifest(s) for the waste oil tank disposal.

Lastly, the figures in the report did not indicate the location of sample P-6. Please resubmit a copy of Figure 2 with the sample location for P-6.

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

Sincerely,



Juliet Shin
Hazardous Materials Specialist

ATTACHMENT

cc: Jeff Monroe
Touchstone Developments
P.O. Box 2554
Santa Rosa, CA 95405

Edgar Howell



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

August 12, 1991

Mr. Jim Marshall
3530 MacArthur Blvd.
Oakland, CA 94619

Re: Chevron #98341, 3530 MacArthur Blvd., Oakland

Notice of Violation

Dear Mr. Marshall,

As you are aware, on August 7, 1991, Cathy Gates from this office inspected the above premises with regard to issuance of a 5-year permit to operate four underground storage tanks (UST's). Our records indicate that the above facility is operating without any Underground Storage Tank Permits. In order to comply with California Hazardous Material and UST laws, and attain valid UST permits, you must comply with the following:

- 1) Sec. 2641(c)(7), Title 23, CCR - The waste oil tank must be gauged at least weekly to demonstrate that no loss has occurred. Gauging should be performed before and after a time period of at least 2 days during which there are no additions or removals. Records must be kept on site to show that this monitoring is being performed. Please submit records of waste oil monitoring by September 10, 1991 to verify proper procedures and recording format.
- 2) Section 2641(c)(5)(B) Title 23, CCR - Inventory Reconciliation must be performed at least five times per week for all fuel tanks. Presently, you are determining the daily loss/gain as required. However, you must also determine daily whether you exceed the maximum allowable variance. Records of this daily reconciliation must be kept on-site. Please also note that stick readings must be made when no gas is being pumped, and that metered readings must be determined at exactly the same time.
- 3) Section 2641(e), (f) Title 23, CCR - Please submit

Mr. Jim Marshall
August 12, 1990
Page 2 of 3

quarterly reports to this agency within 10 days of the end of each quarter. Use the summary form provided during the inspection. This form provides space for explanations of discrepancies for each date that exceeds the maximum allowable variance. You must provide explanations for each listed date which demonstrate that the required steps were followed to prove a leak had not occurred. (These steps are stated in 2644(f)(1-7), Title 23, CCR and on the back of the provided form.)

Initially, submit this report and the daily reconciliation records for the month of August only (by September 10, 1991). In October, begin using the normal quarterly schedule; i.e. include July, August, and September for the third quarter report, and submit the next quarterly summary for Oct. - Dec., 1991 by January 10, 1992.

- 4) Section 2710(b), 2711, Title 23, CCR - Submit updated Tank Application Forms by September 10, 1991. Submit one Form "A" and four Forms "B"; copies were provided during the inspection.
- 5) Section 2712, Title 23, CCR - All monitoring records must be kept on-site for at least 3 years. In addition to daily inventory reconciliation and quarterly summary reports, include precision tests, records for equipment repair, and any other pertinent records. Please provide written verification that these records will be maintained on-site by September 10, 1991.

A 5-year permit will be issued when the above requirements are met. Additionally, you must comply with the items below.

- 6) Section 25504, CH&S - Submit a Hazardous Material Management Plan (HMMP) by September 10, 1991. Enclosed is a form to use to prepare the plan. Please also note that you or Chevron may have a previous version of the plan, which you may modify. Also send verification that your Hazardous Materials Management Plan is available on-site, and that your employees are familiar with how to respond in an emergency.

Mr. Jim Marshall
August 12, 1990
Page 3 of 3

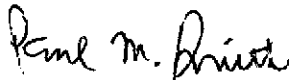
- 7) Section 66828, Title 22, CCR - Used oil filters may not be discarded as normal garbage. Drain oil filters for at least 24 hours, and then store in a single drum. These filters must be shipped for recycling, or else treated as hazardous waste.

- 8) Section 66262.40, Title 22, CCR - Records of all hazardous waste shipments must be kept on-site and available for inspection for at least three years.

Please submit all of the required materials in the time frame specified. Failure to respond in a timely manner could result in civil liabilities under the Health and Safety Code.

Should you have any questions regarding this letter, please feel free to contact Cathy Gates at (415) 271-4320.

Sincerely,



Paul Smith, HMS
Hazardous Materials Division

cc: Gil Jensen, Alameda County District Attorney, Consumer and
Environmental Protection Division
Mike Vomund, Chevron U.S.A.
files

enclosure
PS:CG:cg mem23

LIVERMORE

Sweetwater Forest Fire Sta.	47405 Mines Rd.	Not LOP. Depref case open
Chevron	3360 1st St.	Not LOP. SLIC case open
(R0436) Unocal	1771 1st St. N.	Not LOP. Ust removal open

PLEASANTON

East Bay BMW	3830 Old Santa Rita Rd.	Not LOP/No SLIC
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Last column are site id numbers for LOP cases. These are not inactive. Please correct your records.
Thank you.

Sincerely,



Thomas Peacock
LOP Manager

TP/na

C: John Kaiser, R.W.Q.C.B.