

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



SENT
08-01-06

pc August
October 4, 2006

Mr. Satya Sinha
Chevron Environmental Management Company
6001 Bollinger Canyon Rd., Room K2256
San Ramon, CA 94583

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

Dear Mr. Sinha:

Subject: Fuel Leak Case RO0000284, Chevron Station 9-0121, 3026 Lakeshore Avenue, Oakland, CA

Alameda County Environmental Health (ACEH) staff has recently reviewed the case file for the subject site including the June 1, 2006 Subsurface Investigation Work Plan prepared by Cambria. The objective of the investigation is to determine the extent of petroleum hydrocarbons in soil and groundwater by advancing four soil borings to the northwest of the site. We request that you address the following technical comments when performing this work and submit the technical report requested below.

TECHNICAL COMMENTS

1. Off-site Building Impacts- Our office still has concerns regarding exposure of petroleum hydrocarbons to the neighboring building given the presence of a basement. Not much is known about the plastic vapor barrier installed along the site and the adjacent property boundary. Therefore, we request that Chevron continue to inspect/monitor the basement of the adjacent property on a semi-annual basis. Both liquid and soil vapors should be sampled and analyzed for petroleum hydrocarbons, if present. Please include the results of this inspection in your monitoring reports with a recommendation for on-site remediation if necessary.
2. MW-7 Status- Monitoring well MW-7 has either been unable to be located or paved over for a long period of time. We request that you locate and properly decommission this well as it has and does not add any additional information or understanding to the site.
3. Vertical Extent of Contamination- We request that you extend the proposed borings to at least 20' bgs to determine if high permeable lens are continuous beneath the nearby properties. If a deep permeable lens exists, we request that you sample groundwater and analyze for the same constituents as for the other samples. Soil samples should be screened at five foot intervals and analyzed if PID results indicate contamination.
4. Analytes- Please add the other oxygenates, TAME, ETBE, DIPE, TBA and EDB and EDC to the proposed list of analytes.

TECHNICAL REPORT REQUEST

Please submit your soil and groundwater report 60 days after completion of field activities.

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. Please do not submit reports as attachments to electronic mail.

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

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 barney.chan@acgov.org.

PERJURY STATEMENT

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

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

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

Mr. Satya Sinha
Chevron 9-0121, 3026 Lakeshore Ave.
Page 3 of 3

UNDERGROUND STORAGE TANK CLEANUP FUND

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

AGENCY OVERSIGHT

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

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

Sincerely,



Barney M. Chan
Hazardous Materials Specialist

cc: files, D. Drogos

Mr. Robert Foss, Cambria, 5900 Hollis St., Suite A, Emeryville, CA 94608

8_1_06 3026 Lakeshore Ave

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



12-7-01

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

RO0000284

December 6, 2001

Mr. Tom Bauhs
Chevron Products
P.O. Box 6004
San Ramon, CA 95627

RE: Work Plan Approval for Chevron 9-0121 at 3026 Lakeshore Ave., Oakland, CA

Dear Mr. Bauhs:

I have completed review of Delta Environmental Consultant's, Inc.'s December 2001 *Work Plan for Additional Subsurface Investigation* report prepared for the above referenced site. The proposal to install two additional groundwater monitoring wells southeast of the site, to advance three hand-augured soil borings adjacent to surrounding sanitary sewer and storm drain lines, and to collect water samples from the basement sump at 3014 Lakeshore Avenue is acceptable. This investigation will help to delineate the extent of dissolved petroleum hydrocarbons and MTBE and to determine if utility trenches act as preferential pathways for hydrocarbon migration. Fieldwork should commence within 60 days of the date of this letter, or by **February 11, 2002**.

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

eva chu
Hazardous Materials Specialist

email: David Herzog
Greg Gurss

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

RO0000284

October 19, 2001

Mr. Tom Bauhs
Chevron Products Co.
P.O. Box 6004
San Ramon, CA 94583

RE: **Work Plan for Further Site Characterization at Chevron Service Station #9-0121
at 3026 Lakeshore Avenue, Oakland, CA**

Dear Mr. Bauhs:

I have completed review of Delta Environmental Consultants, Inc.'s (Delta) October 2001 *Site Conceptual Model* prepared for the above referenced site. Based on site investigations conducted to date, there is insufficient data to perform an appropriate risk evaluation for identified receptors. Delta recommended that additional environmental investigations be conducted to obtain the necessary site-specific data to use in a risk evaluation.

At this time, please submit a workplan for additional environmental investigations as recommended in the site conceptual model. The workplan is due within 60 days of the date of this letter or by **December 21, 2001**.

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

eva chu
Hazardous Materials Specialist

email: David Herzog
Jim Brownell

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



03-08-01

20284

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

StID 3628

March 7, 2001

Mr. Tom Bauhs
Chevron-Building L, Room 1110
P.O. Box 6004
San Ramon, CA 94583-0904

**RE: Groundwater Monitoring at Chevron Service Station #9-0121
at 3026 Lakeshore Ave, Oakland, CA**

Dear Mr. Bauhs:

This office is not in receipt of any quarterly groundwater monitoring reports since the first quarter 2000 sampling event. Please submit any reports since that date. If none are available, quarterly groundwater monitoring should be reinstated immediately for the site. For the next sampling event, groundwater should also be analyzed for ether oxygenates using Method 8260.

It is noted that a 7-foot diameter storm sewer runs along the south perimeter of the site. This storm sewer may act as a conduit for the offsite migration of contaminants. This assumption is supported by the fact that groundwater from Well MW-5 has not ever contained detectable concentrations of TPHg or BTEX. It is recommended that a groundwater monitoring well be installed in the southwest corner of the property. If you concur with my recommendation, a workplan for the installation of a well is due within 60 days of the date of this letter, or by May 14, 2001.

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

Eva Chu
Hazardous Materials Specialist

email: David Herzog (dherzog@grinc.com)

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

R0284

ENVIRONMENTAL HEALTH SERVICES

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

StID 3628

June 7, 1999

Mr. Phil Briggs
Chevron Products Co
P.O.Box 6004
San Ramon, CA 94583-0904

**SUBJECT: NEW LANDOWNER NOTIFICATION AND PARTICIPATION REQUIREMENTS
FOR 3026 LAKESHORE AVENUE, OAKLAND, CA**

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

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

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

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

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

Phil Briggs
re: 3026 Lakeshore, Oakland, CA
June 7, 1999
Page 2 of 2

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

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



eva chu
Hazardous Materials Specialist

Attachments

c: Chuck Headlee, RWQCB

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

RO# 284

StID 3628

February 26, 1999

Mr. Phil Briggs
Chevron-Building L, Room 1110
P.O. Box 6004
San Ramon, CA 94583-0904

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

**RE: Monitoring Well Replacement at Chevron Service Station #9-0121
at 3026 Lakeshore Ave, Oakland, CA**

Dear Mr. Briggs:

I have completed review of Blaine Tech Services' February 1999 *4th Quarter 1998 Monitoring at 9-0121* report and Gettler-Ryan Inc's November 1998 *Work Plan for Monitoring Well Destruction and Installation* report prepared for the above referenced site. Groundwater at the site continues to be impacted with elevated petroleum hydrocarbons. There is evidence that some degree of natural biodegradation may be occurring at the site. Gettler-Ryan has proposed to abandon the $\frac{3}{4}$ " diameter wells and replace them with 2" diameter wells. The larger diameter wells will allow the installation of ORC socks to enhance natural biodegradation. That proposal is acceptable with the following change:

- Do not destroy Well MW-2. Rather, install a new 2" diameter monitoring well 40' downgradient of Well MW-2. ORC is more effective when benzene concentrations are not too elevated. And, free product level should continue to be measured in existing Well MW-2.

Field work should commence within 60 days of the date of this letter, or by **April 30, 1999**. Please provide 72 hours notice prior to the start of field activities. If you have any questions, I can be reached at (510) 567-6762.

eva chu
Hazardous Materials Specialist

c: Todd Del Frate
Gettler-Ryan Inc.
3164 Gold Camp Drive, Suite 240
Rancho Cordova, CA 95670

chevron0121-1

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



RO# 284

October 27, 1998

STID 3628

Phil Briggs
Chevron USA Inc.
P. O. Box 5004
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: 3026 Lakeshore Ave., Oakland, CA 94610

Dear Phil Briggs:

This office has received and reviewed a Quarterly Monitoring Report, dated August 3, 1998 by Blaine Tech Services, Inc., with your cover letter dated August 12, 1998, for the above site. The following are comments concerning this report.

1. Has there been any risk assessment done for the Diocese of Oakland offices, which are immediately downgradient from the well with the floating product? This situation needs to be addressed.
2. Free product is still being found in 1 well.
3. This office accepts the currently defined monitoring schedule, as you elaborated in your cover letter, dated April 3, 1998.
4. The MTBE level has gone up in MW-4, which may indicate a new leak as this is an operating service station site. This well is very close to the tanks.

You may call me with any questions at (510) 567-6782.

Sincerely,

Thomas F. Peacock, Manager
Division of Environmental Protection

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

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



R0284

June 30, 1998

STID 3628

Phil Briggs
Chevron USA Inc.
P. O. Box 5004
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: 3026 Lakeshore Ave., Oakland, CA 94610

Dear Phil Briggs:

This office has received and reviewed two Quarterly Monitoring Reports, dated January 19 and March 31, 1998 by Blaine Tech Services, Inc., for the above site. The following are comments concerning these reports.

1. Has there been any risk assessment done for the Diocese of Oakland offices, which are immediately downgradient from the well with the floating product? This situation needs to be addressed soon.
2. Free product is still being found in 1 well.
3. This office accepts the currently defined monitoring schedule, as you elaborated in your cover letter, dated April 3, 1998.

You may call me with any questions at (510) 567-6782.

Sincerely,

Thomas F. Peacock, Manager
Division of Environmental Protection

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

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



R0#284

October 29, 1997
STID 3628

Phil Briggs
Chevron USA Inc.
P. O. Box 5004
San Ramon, CA 94583-0804

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

re: 3026 lakeshore Ave., Oakland, CA 94610

Dear Phil Briggs:

This office has received and reviewed two Quarterly Monitoring Reports, dated May 1 and July 30, 1997 by Blaine Tech Services, Inc., for the above site. The following are comments concerning these reports.

1. The sampling schedule as mentioned in your cover letter dated August 5, 1997 is acceptable.
2. Free product is still being removed from 4 wells.

This case will be handled by Pam Evans at this time. You may call her with any questions at (510) 567-6770.

Sincerely,

Thomas F. Peacock, Manager
Division of Environmental Protection

c: Francis Thie, Blaine Tech Services, Inc., 1680 Rogers Ave.,
San Jose, CA 95112
LeRoy Griffin, Oakland Hazardous Materials
Gordon Coleman, Chief - files

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

R0284

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

May 08, 1997

ATTN: Mr Scott Wilson

Robert H Lee & Assoc
1137 N Mc Dowell Blvd
Petaluma CA 94954

RE: Project # 1059B - Type MOD
at 3026 Lakeshore Ave in Oakland 94610

Dear Property Owner/Designee:

Our records indicate the deposit/refund account for the above project has fallen below the minimum deposit amount. To replenish the account, please submit an additional deposit of \$94.00, payable to Alameda County, Environmental Health Services.

It is expected that the amount requested will allow the project to be completed with a zero balance. Otherwise, more money will be requested or any unused monies will be refunded to you or your designee.

The deposit refund mechanism is authorized in Section 3-140.5 of the Alameda County Ordinance Code. Work on this project will be debited at the Ordinance specified rate, currently \$94 per hour.

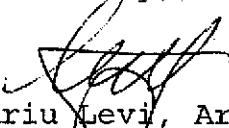
Please be sure to write the following identifying information on your check:

- project #
- type of project and
- site address

(see RE: line above).

If you have any questions, please contact Pam Evans
at (510) 567-6770.

Sincerely,


Ariu Levi, Area Manager
Environmental Protection

c: files/inspector

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



R0#284

February 25, 1997
STID 3628
page 1 of 2

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

Attn: Phil Briggs
Chevron USA Inc.
PO Box 5004
San Ramon CA 94583-0804

RE: Chevron station #90121, 3026 Lakeshore Ave., Oakland CA 94610

Dear Mr. Briggs,

Since my last letter to Chevron, dated June 28, 1996, the following documents have been received in this office:

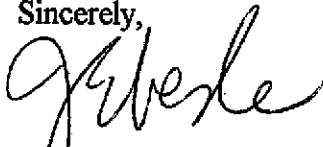
- 1) letter from Robert H. Lee & Associates, Inc., dated 8/13/96, regarding piping closure plan;
- 2) Health & Safety Plan, prepared by Armer/Norman & Associates, dated 8/19/96;
- 3) Piping Removal Plan, submitted by Armer/Norman & Associates, approved by this office on 8/23/96;
- 4) letter from Blaine Tech Services (BTS), dated 8/8/96;
- 5) "Product Piping Removal Soil Sampling Report," prepared by Touchstone Developments, dated 11/1/96;
- 6) "2nd Quarter 1996 Monitoring at 9-0121," prepared by BTS, dated 8/5/96, under cover letter from Chevron dated 12/17/96;
- 7) letter report prepared by Touchstone Developments, dated 11/15/96, regarding water discharge permit efforts;
- 8) letter report prepared by BTS, dated 11/4/96, regarding well abandonment;
- 9) cover letter from Chevron dated 2/3/97 (including items #5, #7, and #8); and
- 10) "4th Quarter 1996 Monitoring at 9-0121," prepared by BTS, dated 1/20/97, under cover letter from Chevron dated 1/31/97.

February 25, 1997
STID 3628
page 2 of 2
Attn: Phil Briggs

Your 1/31/97 letter requested a reduction in the sampling frequency for four wells. **This request is acceptable. The modification is as follows:** MW5 and MW6 will be sampled in the first and third quarters (semi-annually), while MW7 and MW8 will be sampled in the first quarter (annually). The other wells will be sampled quarterly. Free product will be removed from MW2 on a quarterly basis, when it is present and collectable.

Please contact me at 510-567-6761 if you have any questions.

Sincerely,



Jennifer Eberle
Hazardous Materials Specialist

cc: James Keller, Blaine Tech Services, Inc., 985 Timothy Dr., San Jose CA 95133
J. Eberle/file

je.3628-B

ALAMEDA COUNTY
HEALTH CARE SERVICES



R0#284

AGENCY
DAVID J. KEARS, Agency Director

Alameda County
Environmental Protection Services
1131 Harbor Bay Parkway, Room 250
Alameda CA 94502-6577
CC4580

June 28, 1996
STID 3628
page 1 of 2

Attn: Phil Briggs
Chevron USA Inc.
PO Box 5004
San Ramon CA 94583-0804

RE: Chevron station #90121, 3026 Lakeshore Ave., Oakland CA 94610

Dear Mr. Briggs,

Since my last letter to Chevron, dated August 4, 1995, the following documents have been received in this office:

- 1) "2nd Quarter 1995 Monitoring at 9-0121" report, prepared by Blaine Tech Services Inc. (BTS), dated 7/28/95, under Chevron cover letter dated 8/29/95;
- 2) "3rd Quarter 1995 Monitoring at 9-0121" report, prepared by Blaine Tech Services Inc. (BTS), dated 11/3/95, under Chevron cover letter dated 12/3/95;
- 3) "4th Quarter 1995 Monitoring at 9-0121" report, prepared by Blaine Tech Services Inc. (BTS), dated 1/11/96, under Chevron cover letter dated 2/12/96;
- 4) facsimile transmittal from yourself, dated 5/8/96, re SIR reports for Jan, Feb, and March 1996;
- 5) facsimile transmittal from yourself, dated 5/17/96, including your 5/17/96 letter, 5/13/96 letter from BTS, and "1st Quarter 1996 Monitoring at 9-0121" report dated 4/1/96 and prepared by BTS; and
- 6) original copy of the "1st Quarter 1996 Monitoring at 9-0121" report prepared by BTS, dated 4/1/96, under your original cover letter dated 5/17/96.

Due to the continued presence of free product in MW2 ranging from depths of 0.38 to 0.75 feet in thickness, I arranged to be present onsite on 6/25/96 during the quarterly sampling event. I met BTS representative Lad Olver onsite, and we noted 0.47 feet of free product in MW2; there was a strong gasoline odor from this 1/2" diameter well. I noted that several well box covers were not secure, due to damage and rust. Bolts could not be placed due to breakage in the part that holds the bolts. Water and debris such as decaying leaves were found inside several well boxes, including MW2. The water level in some of the well boxes was at the level of the well cap, while in others it was above the well cap. It is possible that water and/or gasoline runoff is entering

June 28, 1996
STID 3628
page 2 of 2
Attn: Phil Briggs

some of the wells, particularly the wells where the water was at the level of the well cap. In addition, the well cap did not appear watertight in MW2. I took 3 photos, but they did not come out very well. **You are requested to repair or replace the damaged well boxes within 60 days, or by August 28, 1996. Please document this work in the subsequent quarterly report, or in a separate letter report.**

In addition, please note that there is a typo in the "1st Quarter 1996 Monitoring at 9-0121" report prepared by BTS, on page 2 of the tabulated data. This is the data for MW2. Although the depth to water varies for the 2/28/96 and 12/19/95 events, the groundwater elevation is identical. **Please correct this error on your next quarterly report.**

Lastly, you are requested to continue removing free product on a quarterly basis, when encountered.

Please contact me at 510-567-6761 if you have any questions.

Sincerely,



Jennifer Eberle
Hazardous Materials Specialist

cc: James Keller, Blaine Tech Services, Inc., 985 Timothy Dr., San Jose CA 95133
Tom Peacock/file

je.3628-A

**ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY**

DAVID J. KEARS, Agency Director



R0284

RAFAT A. SHAHID, DIRECTOR

August 4, 1995
STID 3628

Attn: Mark Miller
Chevron USA Inc.
PO Box 5004
San Ramon CA 94583-0804

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

RE: Chevron station #90121, 3026 Lakeshore Ave., Oakland CA 94610

Dear Mr. Miller,

I am in receipt of the "1st Quarter 1995 Monitoring at 9-0121" report, prepared by Blaine Tech Services, Inc. (BTS). This report documents groundwater monitoring and sampling conducted on 3/24/95. It was noted that well MW-2 had 0.6 feet of free, floating product during this sampling event. This represents a rather abrupt increase in floating product.

The BTS report provided no explanation for this increase. Although the groundwater elevations (GWEs) increased in all the wells (except MW6), GWE only increased 0.5 feet in MW2. Your consultant should provide an explanation for significant changes in subsurface conditions. This should be done by way of a discussion section. If certain steps need to be taken as a result of significant changes in subsurface conditions, then recommendations should be included as part of your consultant's report. This is standard procedure for environmental consultants.

In this case, the free product should be removed; hand-bailing is acceptable at this point. This well should be checked for free product weekly, and free product should be removed when encountered. Records should be kept which include the date, time, thickness of free product, and amount removed. The free product thus removed should be kept in a DOT-approved container, labeled appropriately, sealed, and properly stored.

Please update me on subsurface conditions encountered when groundwater was (presumably) again sampled in June 1995. Please contact me at 510-567-6761 if you have any questions.

Sincerely,

A handwritten signature in cursive script, appearing to read "Jennifer Eberle".

Jennifer Eberle
Hazardous Materials Specialist

cc: James Keller, Blaine Tech Services, Inc., 985 Timothy Dr., San Jose CA 95133
Tom Peacock/file

je.3628

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



R0285

RAFAT A. SHAHID, Assistant Agency Director

December 28, 1993

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

CERTIFIED MAILER #: P 422 218 176

Xtra Oil Co. DbA Shell Oil
3495 Castro Valley Blvd.
Castro Valley, 94546

UGTID:3747

**Re: FIVE-YEAR PERMITS FOR OPERATION OF UNDERGROUND STORAGE TANK(S)
3495 Castro Valley Blvd. Castro Valley, 94546**

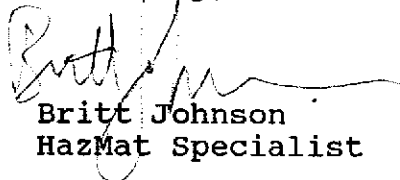
Dear Owner/Operator:

According to our records your facility referenced above has not received a five-year permit to operate UST's. In order to obtain a permit you must complete the following items marked below and return them within 30 DAYS. The necessary forms are enclosed. You may complete a "Consolidated Underground Tank Management Plan" which will assist you in preparing a monitoring plan, site plot plan and spill response plan for your tank(s). If supplemental information or forms are required, please submit it to this office with the completed questionnaire and application forms:

- ___ 1. An accurate and complete plot plan.
- ___ 2. A written spill response plan. (enclosed)
- ___ 3. A written tank monitoring plan. (enclosed)
- ___ 4. Results of precision tank test(s), (initial and annual).
- ___ 5. Results of precision pipeline leak detector tests (initial and annual).
- ___ 6. Complete UST PERMIT FORM A-one per facility. (enclosed)
- ___ 7. Complete UST PERMIT FORM B-one per tank. (enclosed)
- ___ 8. Complete UST PERMIT FORM C-one per tank if information is available. (enclosed)
- ___ 9. Letter stating how the tank is to be maintained during one year closure.

Be advised that Title 23 of the California Code of Regulation prohibits the operation of "ANY" UST without a permit. If our records are in error, you must contact this office immediately TO AVOID POSSIBLE ENFORCEMENT ACTION. Please feel free to contact this office at (510) 271-4320; to answer any questions which may arise in completing the mandatory five-year permit process. Be prepared to provide your zip code to speak with the Hazmat Specialist handling your case.

Sincerely,


Britt Johnson
HazMat Specialist

c: Edgar Howell, Chief, Hazardous Materials Div. (files)

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



R0284

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

February 24, 1993
STID 3628

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

Mark Miller
Chevron USA
PO Box 5004
San Ramon CA 94583-0804

RE: Chevron Station #90121
3026 Lakeshore Ave.
Oakland CA 94610

Dear Mr. Miller,

We are in receipt of your cover letter dated 11/23/92, and the accompanying quarterly report, prepared by Groundwater Technology, Inc., dated 11/12/92. Please note that I am now the County contact person for this site.

As you are aware, dissolved groundwater concentrations as high as 3,500 ppb TPH-g and 1,700 ppb benzene exist at this site. Floating product was also detected in MW2 during this quarter. It was noted that higher method detection limits were used for MW6 for TPH-g (250 ppb) and BTEX (2.5 ppb). Please provide an explanation for this.

You mentioned in your cover letter that this site will now be evaluated for appropriate corrective actions. I would like to encourage this process by providing you with a deadline for submittal of a remediation workplan of 45 days, or by April 8, 1993.

Lastly, we request that you submit the results of the December 1992 quarterly groundwater sampling within 15 days, or by March 11, 1993.

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

Sincerely,

Jennifer Eberle
Hazardous Materials Specialist

cc: Sandra Lindsey, Groundwater Technology, Inc., 4057 Port
Chicago Highway, Concord CA 94520
Rich Hiatt, RWQCB
Ed Howell/File

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ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



R0284

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

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

August 20, 1992

STID 3628

Mark Miller
Chevron USA
PO Box 5004
San Ramon CA 94583-0804

RE: Chevron Station 90121
3026 Lakeshore Ave.
Oakland CA 94610

Dear Mr. Miller,

We are in receipt of the Environmental Assessment Report (EAR) dated 7/31/92, prepared by Groundwater Technology, Inc. As you are aware, four borings were advanced and completed into groundwater monitor wells (MW-5 through MW-8).

This letter will confirm the telephone conversation of 8/19/92 between yourself and Jennifer Eberle of this office. You explained that the recovery system consisting of monitoring wells along the side of the Diocese building had been destroyed. In response to complaints of fuel vapors at the Diocese building, a plastic liner approximately 15 feet in depth was installed along the edge of this building to prevent the possible migration of gasoline and/or diesel vapors.

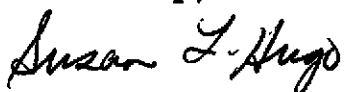
Since there is 0.02 feet of floating product (MW-2), J. Eberle requested weekly bailing of this well. You agreed to weekly bailing unless there is not enough free product to bail. You agreed to report these findings in three months.

As per the cover letter to the EAR report, Chevron recommends monthly groundwater level measurements for three consecutive months to confirm groundwater flow direction and gradient. We agree with this recommendation, and furthermore request that you continue monthly groundwater level measurements for twelve consecutive months. The reasons for this request are 1) the inconsistent flow directions measured over the past year, and 2) the complex topography at the site. This information will prove invaluable in understanding the hydrogeology controlling the distribution of contaminants from their source, and the best way to remediate the site.

Mark Miller
STID 3628
Page 2 of 2
August 20, 1992

If you have any questions, please contact Jennifer Eberle at 510-271-4320.

Sincerely,



Susan Hugo
Senior Hazardous Materials Specialist

cc: Sandra L. Lindsey, Groundwater Technology, Inc., 4057 Port
Chicago Highway, Concord CA 94520
Rich Hiett, RWQCB
Edgar Howell/File

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ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



RC284

RAFAT A. SHAHID, Assistant Agency Director

StID# 3628

May 11, 1992

Nancy Vukelich
Site Assessment and Remediation Engineer
Chevron U.S.A Products Company
P. O. Box 5004
San Ramon, CA 94583-0804

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

Re: Workplan, Chevron #9-0121 3026 Lakeshore Ave., Oakland 94616

Dear Ms. Vukelich:

Britt Johnson, Hazardous Materials Specialist, has reviewed the workplan proposed by your consultant, dated March 2, 1992. In this workplan you propose to install 4 additional monitoring wells at off site locations and replace MW-1 with a 4 inch well suitable for groundwater recovery. Your workplan is approved subject to the following conditions:

- 1) The site Health and Safety Plan must provide for vapor monitoring while site work is underway. Respiratory protection must be worn if it appears that Cal-OESHA permissible exposure limits (PELs) will be exceeded.
- 2) Drilling spoils and purged water from sampling activities must be properly labeled and characterized. If it is determined that either are hazardous waste they must be transported to a proper disposal facility within 90 days from the date of generation.
- 3) Please notify Britt Johnson 48 hours in advance of drilling the monitoring wells and he will attempt to be present at that time.

Please contact Britt Johnson at (510) 271-4320 if you have any questions.

Sincerely,

Paul M. Smith
Senior Hazardous Materials Specialist

CC: Rich Heitt, RWQCB
Howard Hatayama, Cal-EPA DTSC

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director



R0284

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

September 13, 1991

Mr. Joseph Carreri
6601 Owens Drive, #155
Pleasanton, CA 94588

RE: Five Year Permit to Operate Four Underground Storage Tanks
at 3026 Lakeshore Ave., Oakland, CA 94610

Dear Mr. Carreri:

Please find enclosed a five year permit to operate four underground storage tanks at the above facility. For this permit to be valid, you are required to comply with conditions as described in the recently revised California Code of Regulations, Title 23, Subchapter 16, Section 2712. These conditions are summarized below:

- 1) The owner or operator shall comply with the reporting and recording requirements for unauthorized releases specified in Article 5;
- 2) Written records of all monitoring and maintenance performed shall be maintained on-site or off-site at a readily available location, for a period of at least three (3) years. These records must be made available, upon request within 36 hours, to a representative of our office;
- 3) Permits may be transferred to new underground storage tank owners if the new underground storage tank owner does not change any conditions of the permit, the transfer is registered with our office within 30 days of the change in ownership, and the tank permit application forms are completed to show the changes. Our office may review, modify, or terminate the permit to operate the underground storage tank upon receiving the ownership transfer request;

Mr. Joseph Carreri
September 13, 1991
Page 2 of 3

The monitoring methods currently used at this facility are shown below:

- Tanks:
- a. Annual tank integrity tests.
 - b. Inventory reconciliation.
 - c. Annual summary reports of inventory reconciliation.

- Pipes:
- a. Annual pipeline tightness tests.
 - b. Hourly In-line leak detection (red-jackets) that are performance tested annually.

If there are any changes made in the monitoring methods, equipment types, and/or procedures used to monitor tanks and pipes at this facility, you must:

1. Ensure the changed procedures will still meet the requirements of Article 4, Title 23, CCR.
2. Send written notification of the changes to this office.

Please note that the requirements for daily inventory reconciliation, summary reports, and potential leak investigations have been revised under the new Title 23, CCR, effective August 9, 1991. The new requirements are shown below:

Section 2646 - Inventory Reconciliation

- a) The daily variation in inventory reconciliation shall be the difference between physically measured inventory in storage and the calculated inventory in storage. Monthly variations exceeding a variation of 1% of the monthly tank delivery plus 130 gallons must be investigated in accordance with this section.
- b) Submit on an ANNUAL basis, a statement to our office which states that all inventory reconciliation data are within allowable variations or which includes a list of the period of times and corresponding variations which exceed the allowable variations. Said statement shall be executed under penalty of perjury.

Mr. Joseph Carreri
September 13, 1991
Page 3 of 3

The sample worksheet enclosed may be used to record the daily reconciliation, and to perform the potential leak investigations when monthly variations are too large. Please also note that after January 1, 1993, inventory reconciliation, and any other leak detection method that utilizes manual stick readings, shall NOT be used as a monitoring method where the existing ground water level or the highest anticipated ground water level is less than 20 feet below the bottom of the tank.

Consult the revised Title 23, CCR for additional requirements. To obtain a copy of the amended regulations, you may contact State Water Resources Control Board at (916) 324-1252.

Contact Rob Weston or me if you have any questions regarding this letter at (510) 271-4320.

Sincerely,

Paul M. Smith

Paul Smith
Hazardous Materials Specialist

cc: Mike Vomund, Chevron U.S.A.
Files

PS:rw permit1
enclosures

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



R0284

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

August 14, 1991

Mr. Joseph Carreri
3026 Lakeshore Ave.
Oakland, CA 94610

Re: Chevron #90121, 3026 Lakeshore Ave., Oakland 94610

Dear Mr. Carreri,

On August 8, 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 six-month interim permit for the above facility has expired, so this station is operating without any valid Underground Storage Tank Permits.

The inspection was performed with the station manager, Catherine Chan and a copy of the inspection report is enclosed for your reference. To comply with UST laws and regulations and attain valid UST permits you were required to address both items on the report. The first requirement is discussed in detail below, and the second requirement has already been met by Ms. Chan.

- 1) Section 2641(e),(f) Title 23, CCR - Please submit 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.)

Mr. Joseph Carreri
August 14, 1990
Page 2 of 2

Initially you were asked to submit daily logs and a summary report for the month of July only, in order to verify proper procedures. We did receive these materials from Ms. Chan; however the summary form was filled out improperly. Each date must be entered on a separate line. The amount and cause of the variation must be shown for each and every date. Please resubmit this report using the correct format by August 22, 1991.

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 Specialist

cc Mike Vomund, Chevron U.S.A.
files

PS:CG:cg mem28
enclosure

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



R0284

July 22, 1991

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

Ms. Nancy Vukelich
Chevron U.S.A Inc.
2410 Camino Ramon
P.O. Box 5004
San Ramon, CA 94583-0804

**Re: Chevron Station # 9-0121, 3026 Lakeshore Avenue, Oakland,
CA 94612**

Dear Ms. Vukelich,

Alameda County Environmental Health Department, Hazardous Materials Division has received and reviewed the initial proposal dated March 3, 1991 and also the Monitoring Well Installation Addendum dated June 25, 1991 prepared by Groundwater Technology, Inc. (GTI) outlining the installation of four 3/4-inch monitoring wells at the above site.

The work plan is hereby approved; however, you are requested to meet the following additional requirements:

1 Prior to monitoring well installations you are requested to have your consultant notify this office of the date that the work is scheduled so that, if possible, an individual from this office can be present to view the monitoring well installation.

2 You are requested to monitor ground water elevations and collect analytical data monthly for the first three months in order to determine the efficacy of the 'mini' well approach. When reporting the ground water data please specify the water volumes of purge water pumped prior to sampling.

3 A stainless steel bailer is to be used when sampling the monitoring wells. This was discussed in a telephone conversation with Glen Mitchell of Groundwater Technology, Inc. and myself.

4 The analytes sought in all monitoring wells are Total Petroleum Hydrocarbons as gas (TPHg), Total Petroleum Hydrocarbons as diesel (TPHd), and benzene, toluene, xylene, and ethylbenzene (BTX&E).

All copies of reports relating to the remediation at the above site should be sent to the Regional Water Quality Control Board (RWQCB):

Attention: Lester Feldman
SFRWQCB
2101 Webster Street, Suite 500
Oakland, CA 94612

Mrs. Nancy Vukelich
3026 Lakeshore Avenue
Page 2

R0284

If you have any questions with regard to the content of this letter
please contact me at 415/ 271-4320.

Sincerely,

Paul M. Smith

Paul M. Smith
Hazardous Materials Specialist

cc:

Glen Mitchell, GTI
Lester Feldman, SFRWQCB

cc

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



Page 1

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

June 10, 1991

Ms. Nancy Vukelich
Chevron U.S.A Inc.
2410 Camino Ramon
P.O. Box 5004
San Ramon, CA 94583-0804

Re: Chevron Station # 9-0121, 3026 Lakeshore Avenue, Oakland,
CA 94612

Dear Ms. Vukelich,

Alameda County Environmental Health Department, Hazardous Materials Division has received and reviewed the initial proposal dated March 3, 1991 prepared by Groundwater Technology, Inc. (GTI) which outlined the installation of four 3/4 inch monitoring wells at the above site. After review of this initial proposal and subsequent documentation the following concerns with regard to the work plan still remain and need to be addressed prior to work plan approval:

- 1 The Regional Water Quality Control Board's guidance document the Tri-Regional Recommendations for the Investigation of Subsurface Contamination (August 1990) requires the installation of a monitoring within 10 feet in the downgradient direction of the known contamination. Upon examination of the proposed locations of the proposed wells on the site map, with consideration given to the hydraulic gradient, there is some concern as to whether the well placement as proposed would meet this requirement.
- 2 Soil samples are required to be collected every 5 feet, when there are significant changes in lithology, or in areas of obvious contamination noted during boring advancement. The soil sampling analytes as specified by GTI in the May 20, 1991 correspondence are acceptable.
- 3 The sampling techniques used to collect soil and water samples need to be adequately addressed in a work plan revision so that samples collected are done so under proper protocols which will ensure that samples are representative of the environmental conditions at the site. Sampling protocols are specified in the State Water Quality Control Board LUFT manual, the Regional Water Quality Control Board Tri-Regional Guidelines and also Department of Health Services, Hazardous Materials Laboratory (HML) sampling manual. The sample collection techniques employed should minimize the volatilization of contaminants in both soil and water.

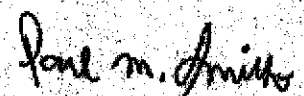
Ms. Vukelich
June 10, 1991
Page 2 of 2

- 4 Sampling ground water monitoring wells using peristaltic or air lift pumps is not acceptable. Ground water samples should be collected using means which reduce the loss of volatile compounds, such as with Teflon/stainless steel bailers, or gas-actuated positive displacement pumps. [See: Appendix A, Page. A14, SWRCB LUFT Manual, Oct. 1989 edition]
- 5 Please be certain that wells are surveyed to an established benchmark to an accuracy of 0.01 foot, and that values are referenced to mean sea level.
- 6 Please submit a ground water sampling QA/QC plan. It is recommended that the QA/QC sampling protocol include such elements as duplicate samples, and trip and equipment blanks, among others.
- 7 Please submit a Site Safety Plan. The scope of this plan must adhere to guidelines specified under Part 1910.120 (1)(2) of 29 CFR.
- 8 You are encouraged to use non-phosphate detergents (i.e., Liqui-Nox) when decontaminating sampling/purging equipment.

Please have you consultant respond in writing to the previous list of items within 15 days of the receipt of this letter or by June 25, 1991.

If you have any questions with regard to the content of this letter please contact me at 415/ 271-4320.

Sincerely,



Paul M. Smith
Hazardous Materials Specialist

- cc:
- Glen Mitchell, GTI
 - Lester Feldman, SFRWQCB
 - Howard Hatayama, DHS
 - Gil Jensen, Alameda County District Attorney's Office
 - Rafat A. Shahid, Assistant Agency Director, Environmental Health

L.S.

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



R0284

July 23, 1990

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

Mr. Glen Mitchell
Groundwater Technology, Inc.
4080-D Pike Lane,
Concord, CA 94520

Re: Proposed Well Point Survey for Chevron Station # 9-0121 at
3026 Lakeshore Ave., Oakland 94610

Dear Mr. Mitchell:

Alameda County has received Groundwater Technology's proposed well-point survey at the above referenced site. This information, as mentioned, can only be used to formulate a complete site assessment as stated in your July 2, 1990 letter. Alameda County would like to see additional well-points at areas which totally encompass the site. Specifically, points north of the site ie on the Mac Arthur Blvd. side, could be used to determine if contamination from off-site is likely. The other directions should also be examined to verify lateral extent of contamination. Well points on the site itself may be warranted pending results obtained from the on-site mobile lab. Please submit a map including locations of the other well points to satisfy the County's requirements.

In order to facilitate future work plan approval the County would request any information available on this site be sent to our office. This would include quarterly monitoring reports and any hydrogeological or geotechnical reports.

Please contact the undersigned at 271-4320 should you have any questions regarding this letter.

Sincerely,

Barney M. Chan
Hazardous Materials Specialist

cc: Gil Jensen, Ala. Cty. District Attorney, Consumer and Env.
Protection Agency
Lester Feldman, RWQCB

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



R0284

June 13, 1990

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

Mr. Glen Mitchell
Groundwater Technology
4080 Pike Lane Suite D
Concord, CA 94520

Re: Remediation at Chevron Station #90121, 3026 Lakeshore Ave.
Oakland, CA 94606

Dear Mr. Mitchell:

This letter is to confirm the conversation you had with Mr. Barney Chan from our office on June 12, 1990. In this conversation you stated that your company is now assuming the remediation at this site and that the monitoring wells currently in place were highly suspect of being improperly installed. Alameda County will be the lead agency overseeing both the soil and groundwater remediation at this site. The Regional Water Quality Control Board is currently unable to oversee the large number of contamination cases within Alameda County and has delegated the handling of these cases to our Division.

As stated in the conversation, Alameda County operates on a fee schedule. You will be charged for the Hazardous Materials Specialist's time at the rate of \$60.00/hr. This time includes review of work plans and reports and witnessing of sampling. It is therefore requested that you submit a check payable to Alameda County in the amount of \$500.00 for our oversight. Also included is the "typical" letter listing the contents of a work plan issued when a confirmed unauthorized release of hazardous material has occurred.

Please contact Barney Chan at 271-4320, should you have any questions regarding this letter.

Sincerely,

Edgar B. Howell III,
Chief, Hazardous Materials Division

cc: Gil Jensen, Alameda County District Attorney, Consumer and
Environmental Protection
Rafat Shahid, Assistant Agency Director
Lester Feldman, SFRWQCB
Howard Hatayama, DOHS

Typical Letter

I. Introduction

- A. Statement of scope of work
- B. Site map showing location of existing and past underground storage tanks and associated piping
- C. Site History
 - provide historical site use and ownership information. Include a description of types and locations of hazardous materials used on site.

II. Site Description

- A. Vicinity description including hydrogeologic setting
- B. Initial soil contamination and excavation results
 - provide sampling procedures used
 - indicate depth to ground water
 - describe soil strata encountered
 - provide soil sampling results, chain of custody forms, identity of sampler
 - describe methods for storing and disposal of all soils

III. Plan for determining extent of soil contamination on site

- A. Describe approach to determine extent of lateral and vertical contamination
 - identify subcontractors, if any
 - identify methods or techniques used for analysis
 - provide sampling map showing all lines of excavation and sampling points
 - if a step out procedure is used, define action level for determination of "clean" isopleth
 - provide chain of custody forms, lab analysis results, all receipts and manifests, & identity of sampler
- B. Describe method and criteria for screening clean versus contaminated soil. If onsite soil aeration/bioremediation is to be utilized, then provide a complete description of method that includes:
 - volume and rate of aeration/turning
 - method of containment and cover
 - wet weather contingency plans
 - permits obtained
- C. Describe security measures

Plan for determining ground water contamination

- Construction and placement of wells should adhere to the requirements of the "Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks". Provide a description of placement and rationale for the location of monitoring wells including a map to scale.
- The placement and number of wells must be able to determine the extent and magnitude of the free product and dissolved product plumes.

A. Drilling method for construction of monitoring wells

- expected depth and diameter of monitoring wells
- date of expected drilling
- casing type, diameter, screen interval, and pack and slot sizing techniques
- depth and type of seal
- development method and criteria for adequacy of development
- plans for cuttings and development water

B. Ground water sampling plan

- method for free product measurement, observation of sheen
- well purging procedures
- sample collection procedures
- chain of custody procedures
- procedures for determining ground water gradient

C. Sampling schedule

- measure free product weekly for first month following well installation
- measure free product and dissolved constituents monthly for first three months.
- after first three months monitor quarterly.
- monitoring must occur a minimum of one year.

V. Provide a site safety plan

Development of a Remediation Plan.

- A. The Remediation Plan is to include a time schedule for remediation, and, at minimum, must address the following issues:
- removal of all free product. Manual bailing is not acceptable as a recovery system. Actual amount of free product removed must be monitored and tabulated.
 - remediation of contaminated soils and dissolved constituents must follow RWQCB's resolution No. 68-16.
 - soils containing 1,000+ ppm of hydrocarbons must be remediated. Soils containing between 100 and 1,000 ppm must be remediated unless sufficient evidence is provided which indicates no adverse effects on groundwater will occur. Clean up of soils to 100 ppm is strongly recommended.
 - design of remedial action system should be based on a review of hydrogeologic and water quality data and on an evaluation of mitigation alternatives. The determination of probable capture zone(s) of extraction system(s) should be based on aquifer characteristics as determined by aquifer test data

VII Reporting

- A. Technical reports should be submitted with a cover letter from . The letter must be signed by an authorized representative.
- B. Monthly reports must be submitted for the next three months with the first report due 90 days from the above letter date.
- C. Quarterly reports must be submitted with the first report due 90 days after the final monthly report. These reports should describe the status of the investigation and cleanup.
- D. All reports and proposals must be signed by a California-Certified Engineering Geologist, California Registered Geologist or a California-Registered Civil Engineer (see page 2, 2 June 1988 RWQCB document). A statement of qualifications should be included in

all reports. Initial tank removal and soil sampling does not require such expertise; however, borehole and monitoring well installation and logging, and impact assessments do require such a professional.

All proposals, reports and analytical results pertaining to this investigation and remediation must be sent to our office and RWQCB. You should be aware that this Division is working in conjunction with the RWQCB and that this is a formal request for technical reports pursuant to California Water Code Section 13267 (b). Any extensions of agreed upon time deadlines must be confirmed in writing by either this Division or the RWQCB.

Should you have any questions concerning the contents of this letter or the status of this case please contact Barney Chan, Hazardous Materials Specialist at 271-4320.

Sincerely,

Edgar B. Howell III
Chief, Hazardous Materials Division

cc: Gil Jensen, Alameda County District Attorney, Consumer &
Environmental Protection
Rafat Shahid, Assistant Agency Director
Lester Feldman, SFRWQCB
Howard Hatayama, DOHS