

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



03-1601

po233

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

March 15, 2001  
Std # 4249

Mr. Thomas Bauhs  
Chevron Products Company  
P.O. Box 6004  
San Ramon, CA 94583

**Re: Site Conceptual Model for Former Chevron Service Station #9-4612,  
3616 San Leandro St., Oakland CA 94601**

Dear Mr. Bauhs:

Our office has received and reviewed the December 14, 2000 Site Conceptual Model (SCM) for the above referenced site as prepared by Delta Environmental Consultants, Inc. I have also spoken with Mr. Stephen Carter of Delta. Because of a possible error in monitoring well elevations and gradient, we could only now respond to this report. Our office has only recently been informed by Delta that no error in groundwater gradient exists.

The SCM concludes that the potential exposure receptors are current and future workers in the existing and potential future buildings, construction workers and residents in neighboring houses. At this time, there is insufficient data to evaluate this risk, therefore Delta recommends additional environmental investigation, which includes the following:

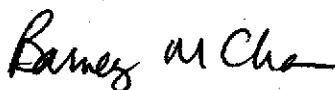
- Advance two hand auger borings to groundwater between the existing warehouse and the house to the west (note SCM states east). Both soil and groundwater samples will be collected for chemical analysis.
- Advance three off-site GeoProbe borings in San Leandro St. to determine the down-gradient extent of the plume and determine if the utility trenches act as preferential pathways. Both soil and groundwater samples will be collected for chemical analysis.
- Six GeoProbe borings are proposed on the current vacant lot adjacent to the warehouse. These borings are located next to the warehouse down-gradient of potential former sources and on the up-gradient portion of the site. Again, soil and groundwater samples will be taken for chemical analysis.

This work is acceptable with the condition that a minimum of one soil and one groundwater sample is collected from each borehole for analysis. The soil sample with the highest screening results should be analyzed. If no screening results are observed, please collect the soil sample just above the first encountered groundwater. All samples should be TPHg, BTEX and MTBE. The highest reported soil and groundwater MTBE sample should confirm its presence using EPA Method 8260. Please contact our office prior to performing this work. This data will be using in your future risk assessment.

Mr. T. Bauhs  
Former Chevrons site, 3616 San Leandro St., Oakland 94601  
StID # 4249  
March 15, 2001  
Page 2

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

Sincerely,



Barney M. Chan  
Hazardous Materials Specialist

C: B. Chan, files

Mr. S. Carter, Delta Environmental Consultants, 3164 Gold Camp Drive, Suite 200, Rancho  
Cordova, CA 95670-6021

Mr. L. Ratto, Ratto Land Company, P.O. Box 6104, Oakland CA 94603-0104

Mr. T. McIlraith, 407 Castello Rd., Lafayette, CA 94549

SCM3616SLSt

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



Sent 12/3/99  
Including cc's

20233

ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION (LOP)  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
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December 2, 1999  
StID # 4249

Mr. Brett Hunter  
Chevron USA Products Co.  
60001 Bollinger Canyon Rd., Bldg L  
P.O. Box 6004  
San Ramon, CA 94583-0804

Re: Former Chevron Station 9-4612, 3616 San Leandro St., Oakland CA 94601

Dear Mr. Hunter:

Our office has received and reviewed the November 5, 1999 3<sup>rd</sup> Quarter 1999 groundwater monitoring report for the above site as prepared by Blaine Tech Services. Please be aware that your submittal should also include your interpretation of the monitoring data and any recommendations for the site. At a minimum, your future actions for the next quarter should be stated.

As you are aware, this site has been monitored since 1993 for some wells and since 1995 for others. During this time total petroleum hydrocarbon concentrations have stabilized, albeit, not to low levels. In addition, MTBE has been a recurring issue. A great deal of uncertainty at this site lies with the absence of data regarding the closure of the underground tank system at the site, inclusive of the piping and dispenser areas, which occurred in September 1976. Few, if any, sampling or tank removal requirements existed at this time. In fact, records indicate that no fire inspector was even present during the tank removals.

Prior to the construction of the existing warehouse over the former tank area, geo-technical borings discovered impacted soil and groundwater, however, no remediation was ever performed. The warehouse was then built. All subsequent information amounts to monitoring the release and estimating the potential for volatile organic exposure. There are currently physical constraints to access the warehouse and resistance from the current property owner preventing subsurface work within the warehouse. The recent soil vapor sampling was done at locations just outside the warehouse within the former tank footprints. No apparent risk to volatile organic exposure was found.

A review of the cumulative monitoring data indicates that the source likely remains within the soils beneath the existing warehouse. This may be the reason TPHg levels remain relatively high. Conditions are likely anaerobic beneath the building leading to slow bio-degradation rates. Even the oxygen releasing compound (ORC) socks installed in wells VH-1, MW-2 and MW-3 have had limited success. The dissolved oxygen content in these wells is not significantly different from the down-gradient background well, MW-4. I would recommend the replacement of the ORC sock in these wells.

Mr. B. Hunter  
Former Chevron Station 9-4612  
3616 San Leandro St., Oakland 94601  
StID # 4249  
December 2, 1999  
Page 2.

In addition, you must demonstrate that the site has met the conditions of a "low risk" groundwater site. To do this, the two most difficult conditions you must demonstrate are that the source has been stopped and that the site has been adequately characterized. The presence of MTBE also requires even a greater understanding of the site due to the recalcitrant nature of this chemical. The Water Board is recommending that a site conceptual model (SCM) be done for every site impacted with MTBE. The SCM will be used to determine if active remediation is necessary to protect a sensitive receptor.

The SCM should include items such as:

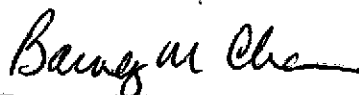
- The historical direction of gradient
- The location of receptors, wells and surface water bodies
- Determination of any conduits
- Prioritization of site.

In addition you should determine if the plume has been adequately characterized and whether the source is still present. If necessary, you should provide a work plan to address these issues.

Our office has been advised of the potential development of the eastern portion of this property. Please comment on whether you would foresee any problems with this.

Please provide a written response to this letter within 30 days or no later than January 7, 2000. You may contact me at (510) 567-6765 if you have any questions.

Sincerely,



Barney M Chan  
Hazardous Materials Specialist

C: B. Chan, files  
Mr. J. Ratto, P.O. Box 6032, Oakland CA 94603  
Mr. T. McIlraith, 407 Castello Rd., Lafayette, CA 94549  
SCM3616SLSt

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



RO#233

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

January 7, 1999  
StID # 4249

Mr. Phil Briggs  
Chevron Products Co.  
6001 Bollinger Canyon Rd., Bld. L Room 1110  
P.O. Box 5004  
San Ramon, CA 94583-0804

**Re: Work Plan for Limited Soil Vapor Sampling at 3616 San Leandro St., Oakland CA  
94601**

Dear Mr. Briggs:

Our office has received and reviewed the January 5, 1999 Work Plan for a Limited Soil Vapor Survey prepared by Gettler-Ryan Inc. This work plan was prepared to satisfy our office's request to determine the potential of soil gas volatilization into the warehouse at this site. Prior groundwater contamination in the down-gradient well and initial qualitative observations indicated a potential exposure risk.

Upon review of the work plan, we find that it is acceptable with the following conditions:

- The soil vapor samples should be taken at an approximate depth of 3' bgs.
- The sampling method should be using a summa canister not a Tedlar bag.
- The analytical method for analysis should be TO14 or TO15.

These requirements are requested due to the variety of sampling and analytical methods that exist. The Water Board has advised that these are acceptable methods. This also assumes that tank backfill material will be encountered during the boring, not native soil.

Please contact our office 72 working hours prior to this field work. I may be reached at (510) 567-6765 if you have any questions.

Sincerely,

Barney M. Chan  
Hazardous Materials Specialist

C: B. Chan, files

Mr. S. Carter, Gettler-Ryan Inc., 3164 Gold Camp Drive, Suite 240, Rancho Cordova,  
CA, 95670

Svwpap-3616

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



Ro# 233

ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION (LOP)  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 587-6700  
FAX (510) 337-9335

September 21, 1998  
StID # 4249

Mr. Phil Briggs  
Chevron Products Co.  
6001 Bollinger Canyon Rd., Bld. L Room 1110  
P.O. Box 5004  
San Ramon, CA 94583-0804

**Re: Possible Soil Vapor Sampling at 3616 San Leandro St., Oakland CA 94601**

Dear Mr. Briggs:

It has come to my attention that the on-going issue of potential volatilization of hydrocarbons to the indoor air within the warehouse at the above site has not yet been resolved. This issue will need to be addressed prior to site closure. Based on your site inspection, you stated that it would be very difficult to get a portable drill rig into the warehouse. In addition, you stated that the property owner was against the disruption this may cause to the current tenant. You offered to collect vapor samplers using a flux chamber, however, our office is not convinced on the merits of this test method.

To satisfy the County's need for further site characterization, I would like you to consider the sampling of soil vapor from within the backfill of the former underground tanks. The backfill contains porous media compared to the native soils and would likely collect vapors. Please investigate the possibility of collecting vapor samples from the backfill through slant borings. If this is a reasonable alternative please provide a work plan for such an investigation.

Please contact me at (510) 567-6765 with your comments or questions.

Sincerely,

Barney M. Chan  
Hazardous Materials Specialist

C: B. Chan, files  
Mr. J. Ratto, P.O. Box 6032, Oakland CA 94603  
Mr. T. McIlraith, 407 Castello Rd., Lafayette, CA 94549

SV3616

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



R0#233

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

September 21, 1998  
StID # 4249

Mr. Phil Briggs  
Chevron Products Co.  
6001 Bollinger Canyon Rd., Bld. L Room 1110  
P.O. Box 5004  
San Ramon, CA 94583-0804

**Re: Possible Soil Vapor Sampling at 3616 San Leandro St., Oakland CA 94601**

Dear Mr. Briggs:

It has come to my attention that the on-going issue of potential volatilization of hydrocarbons to the indoor air within the warehouse at the above site has not yet been resolved. This issue will need to be addressed prior to site closure. Based on your site inspection, you stated that it would be very difficult to get a portable drill rig into the warehouse. In addition, you stated that the property owner was against the disruption this may cause to the current tenant. You offered to collect vapor samplers using a flux chamber, however, our office is not convinced on the merits of this test method.

To satisfy the County's need for further site characterization, I would like you to consider the sampling of soil vapor from within the backfill of the former underground tanks. The backfill contains porous media compared to the native soils and would likely collect vapors. Please investigate the possibility of collecting vapor samples from the backfill through slant borings. If this is a reasonable alternative please provide a work plan for such an investigation.

Please contact me at (510) 567-6765 with your comments or questions.

Sincerely,

Barney M. Chan  
Hazardous Materials Specialist

C: B. Chan, files  
Mr. J. Ratto, P.O. Box 6032, Oakland CA 94603  
Mr. T. McIlraith, 407 Castello Rd., Lafayette, CA 94549

SV3616

ALAMEDA COUNTY  
HEALTH CARE SERVICES



AGENCY

DAVID J. KEARS, Agency Director

R0# 233

May 4, 1998  
StID # 4249

Mr. Phil Briggs  
Chevron Products Co.  
6001 Bollinger Canyon Rd., Bld. L Room 1110  
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: Work Plan for Additional Site Investigation at 3616 San Leandro  
St., Oakland CA 94601

Dear Mr. Briggs:

This letter responds to our phone conversation on January 22, 1998 where you proposed the installation of monitoring wells MW-5 and MW-6 in an attempt to define the limits of soil and groundwater contamination and to estimate contamination within the existing warehouse. Upon discussion with our risk assessor, Madhulla Logan, it was decided that actual site data is necessary to determine the potential risk within the warehouse. The advancement of MW-5 would not provide specific data from beneath the former underground tanks. As you may recall, the September 1988 Vonder Haar Hydrogeology report identified gasoline odors in all three of the geotechnical borings they advanced. Unfortunately, no analytical testing of these borings was done. Boring B-3 was located near the currently existing well VH-1, boring B-2 located within one of the former tank pits and boring B-1 located north of the underground tanks. Because of this information, actual data within the existing warehouse is necessary.

In our conversation you were going to perform a site visit to see if borings could be advanced within the warehouse and also discuss this possibility with Mr. McIlraith, the current property owner. Please report your findings in your response to this letter.

The proposed location of MW-6 is acceptable as is your recommendation to add oxygen releasing compounds (ORC) to the onsite wells. Please respond to this letter within 30 days or by June 5, 1998. You may contact me at (510) 567-6765 if you have any questions.

Sincerely,

Barney M. Chan, Hazardous Materials Specialist

C:B. Chan, files

Mr. J. Ratto, P.O. Box 6032, Oakland CA 94603

Mr. T. McIlraith, 407 Castello Rd., Lafayette, CA 94549 3wp3616



ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



RO# 233

January 2, 1998

Mr. Phil Briggs  
Chevron Products Co.  
6001 Bollinger Canyon Rd., Bld. L Room 1110  
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: Update on Chevron sites**

Dear Mr. Briggs:

I recently wrote you about several Chevron or former Chevron sites which we previously discussed in our 8/21/97 meeting. This letter serves to update you on progress and needs of those sites where a specific letter has not been written.

StID # 607 , Former Signal Bulk Plant (RO# 636)  
2001 Versailles Ave.  
Alameda CA 94501

Our office has received and is currently reviewing the Risk Management Plan (RMP) for this site. Ms. Madhulla Logan, staff toxicologist, is discussing questions she has regarding the RMP with your consultant. As you may recall, groundwater monitoring should be put on hold. It is anticipated that after the approval and implementation of the approved RMP, the site will be recommended to the Water Board for closure. It appears that we are still missing the items mentioned in my September 15, 1997 letter, ie the monitoring well installation reports for all wells with the exception of the five wells installed on December 1984 and the one installed on May 1994. Please clarify the exact number and locations of all monitoring wells at this site.

StID # 838, Former Chevron Service Station, # 9-4340 (RO# 1085)  
2681 Fruitvale Ave.  
Oakland CA 94601

Our office has received a copy of RBCA/Closure Request from Cambria. This document is currently being reviewed by Ms. Logan. Upon completion of her review, it will be determined if a Risk Management Plan will be necessary. We have been notified that the title for monitoring well MW-13 has been transferred to the City of Oakland and remains part of their monitoring schedule. When the site has been approved for closure by our office and the RWQCB, it would be advisable to resample those wells where ORC has been added to obtain the actual concentration of hydrocarbons left in-place. This information will be included in the transmittal letter for future notification purposes.

Mr. P. Briggs  
Update on Chevron sites  
January 2, 1998  
Page 2.

StID # 4249, Former Chevron Station #9-4612 (Ro# 233)  
3616 San Leandro St.  
Oakland CA 94601

Our office has written a separate letter to you regarding this site.

StID # 541, Chevron Service Station # 9-1851 (Ro# 464)  
451 Hegenberger Rd.  
Oakland CA 94621

Our office has written a separate letter to you regarding this site.

StID # 103, Chevron Service Station #9-0076 (Ro# 427)  
4265 Foothill Blvd.  
Oakland CA 94601

Our office has received the RBCA for this site. I have recently provided this report to Ms. Logan along with a copy of Chevron/Shell's basement and well survey for this area for her review. We have also received the raw data for the soil samples taken from the recent piping and overspill protection upgrade at this site. We received the report of the installation of ORC in monitoring wells C-2, C-4 and C-6. At this point please continue to monitor the wells according to the existing schedule, ie quarterly for all wells except wells C-5, C-8 and C-9 which are sampled annually. After County review of the RBCA either additional remediation or a modified monitoring schedule may be appropriate.

As it has become more common to measure for bioremediation parameters, please have your consultant determine the need to establish a trend in the analysis of these results. Most analytical measurements should be routinely run during each monitoring event until a trend is illustrated. Your consultant should provide interpretation of the results. The addition of ORC to each impacted well should not be assumed to be the correct approach.

Please provide the requested information and provide a written comment to this letter within 30 days or by February 4, 1998.

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

Mr. P. Briggs  
Update on Chevron sites  
January 2, 1998  
Page 3.

Sincerely,



Barney M. Chan  
Hazardous Materials Specialist

c: B. Chan, files

Mr. C. Mapes, 14 Grass Valley Ct., Oakland CA 94605  
John & Molly King, King Petroleum, Inc., P.O. Box 137,  
Woodacre, CA 94973

Ms. M. Guensler, Exxon Co. USA, P.O. Box 4032, Concord, CA  
94524-2032

Ms. G. Alie, 3032 Davis St., Oakland CA 94601

Ms. Linda M. and Laura A. Morn, c/o John Morn, 69 La Espiral  
Orinda, CA 94563

Ms. T. Arrowood, Cambria Env. Tech., Inc., 1144 65th St.,  
Suite B, Oakland CA 94608

Mr. A. Perez, Shell Oil Co., P.O. Box 8080, Martinez, CA 94553

Ms. B. Russell, American Stores Properties, Inc., 348 E. South  
Temple St., Salt Lake City, UT 84111

updtChev

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



RO# 233

December 31, 1997  
StID # 4249

Mr. Phil Briggs  
Chevron Products Co.  
6001 Bollinger Canyon Rd., Bld. L Room 1110  
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: Request for Work Plan for Additional Investigation at 3616  
San Leandro St., Oakland CA 94601**

Dear Mr. Briggs:

This letter reiterates the County's request for a work plan for additional site assessment at the above referenced site. As you may recall after our August 21, 1997 meeting I wrote a letter summarizing the items discussed and the items needed for each Chevron site under my oversight. For this site, I requested additional characterization in the area of the three former underground tanks within the current warehouse and additional groundwater characterization downgradient of monitoring wells VH-1 and MW-2. Your work plan was requested to be submitted by **September 23, 1997**. To date, our office has not received the requested report.

Please submit your work plan for site assessment **within 30 days or by February 2, 1998**.

Because the MtBE detected in MW-2 was confirmed by EPA method 8260 to be much lower than reported using EPA method 8020, future analysis for MtBE should be done by method 8260.

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

Sincerely,

Barney M. Chan  
Hazardous Materials Specialist

c: B. Chan, files  
Mr. J. Ratto, P.O. Box 6032, Oakland CA 94603  
Mr. T. McIlraith, 407 Castello Rd., Lafayette, CA 94549  
2wp3616

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



Ro#233 (4)

August 21, 1997

Mr. Phil Briggs  
Chevron Products Co.  
6001 Bollinger Canyon Rd., Bld. L Room 1110  
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: Summary of Meeting with Alameda County on August 21, 1997**

Dear Mr. Briggs:

This letter serves to summarize the items discussed today in our meeting at the County's offices regarding the status of a number of Chevron or former Chevron sites. Please review my comments and respond to the following agreements or requests:

(Ro#636) StID # 607 , Former Signal Bulk Plant  
2001 Versailles Ave.  
Alameda CA 94501

This site has been adequately evaluated and monitored. Site closure will be initiated. Groundwater monitoring may be put on hold. You may wish to also put on hold the closure of all wells pending RWQCB closure concurrence. Be aware that well closure within the City of Oakland is now permitted through Alameda County Public Works. Their contact is Mr. Andreas Godfrey, (510) 670-5575. Because I will be initiating the closure process, I may still need to request any additional information missing from our file.

Because residual soil contamination has been left in-place, a risk management plan must be implemented in the property's deed. This plan must include a health and safety plan to protect workers in the event of future construction or excavation activities. It should meet OSHA requirements. Alameda County must be notified and we must review the health and safety plan prior to future subsurface activities. A copy of the risk management plan should be sent to our offices for our files.

(Ro#1085) StID # 838, Former Chevron Service Station, # 9-4340  
2681 Fruitvale Ave.  
Oakland CA 94601

At this time, groundwater monitoring may be put on hold pending the submission of your Human Health Risk Assessment (HHRA). Please evaluate residual soil and groundwater contamination based upon all future potential exposure pathways.

Mr. P. Briggs  
August 21, 1997  
Chevron sites  
Page 2.

Keep in mind that the closure of wells at this time assumes some risk prior to RWQCB concurrence for site closure. Monitoring well MW-13 should not be closed as it is the City of Oakland's responsibility to continue monitoring this well as part of their on-going investigation of 2662 Fruitvale Ave. The introduction of ORC into MW-5 and MW-10 is acceptable as a means of enhancing bioremediation. You may also want to investigate other means of bioremediation enhancement. This includes the analysis of parameters indicative of natural attenuation ie dissolved oxygen, oxidation-reduction potential, nitrate, sulfate and iron +2. Please provide your HHRA within 30 days or by September 23, 1997.

(RO#233) StID # 4249, Former Chevron Station #9-4612  
3616 San Leandro St.  
Oakland CA 94601

This site is not adequately characterized. There is not any analytical data from the area around the three former USTs within the warehouse building. Please explore the possibility of collecting soil and groundwater samples in the area of the former fuel tanks. Additional characterization should attempt to delineate groundwater contamination downgradient of VH-1 and MW-2.

MTBE has been detected at this site as high as 530 ppb in MW-2. This result is inconsistent with a release from tanks which were removed in February 1976. Please continue to monitor this site quarterly for same current suite of chemicals. Please submit a work plan for further site characterization within 30 days or by September 23, 1997.

(RO#464) StID # 541, Chevron Service Station # 9-1851  
451 Hegenberger Rd.  
Oakland CA 94621

This site has had a significant recent release as indicated by the MTBE levels. A work plan for the investigation of migration pathways and possible delineation of MTBE has been requested and should be provided to our office as soon as possible. Groundwater monitoring should continue at the site on a quarterly basis. Future groundwater monitoring analyses should meet the detection limits within the August 10, 1990, "Tri-Regional Board" Guidelines. Please insure your analytical laboratory meets these requirements. It appears that one possible source of the MTBE may be a dispenser leak. Please investigate this potential source.

Mr. P. Briggs  
Chevron sites  
August 21, 1997  
Page 3.

(R0#427) StID # 103, Chevron Service Station #9-0076  
4265 Foothill Blvd.  
Oakland CA 94601

Chevron's request to reduce the monitoring of wells C-5, C-8 and C-9 to annually is approved. Please insure that this monitoring event occurs during the first quarter of each year. Our office was informed that a human health risk assessment will be prepared by CRCT by September 15, 1997. Please provide us a copy when received.

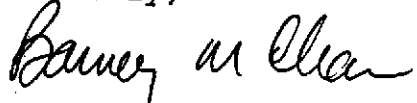
Your July 14, 1997 letter informed our office that product piping replacement and installation of overspill protection would occur at the site starting July 14. Please give a report of the observations and/or sampling results in your next monitoring report.

This site has the potential of a commingled plume along with the Shell Service station at 4411 Fruitvale Ave. Both Chevron and Shell were requested to perform a survey of the neighboring residents looking for domestic wells and basements. This was to be done by looking for permits and doing a physical site survey. Please provide a report of your findings.

Please consider the enhancement of bioremediation within significantly impacted wells; C2, C4 and C6 and please submit a copy of the monitoring well installation report for wells C-1 through C-4.

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

Sincerely,



Barney M. Chan  
Hazardous Materials Specialist

c: B. Chan, files  
T. Peacock, LOP Manager  
Chev-mtg

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J. KEARS, Agency Director



R0233

RAFAT A. SHAHID, Director

DEPARTMENT OF ENVIRONMENTAL HEALTH  
Environmental Protection Division  
1131 Harbor Bay Parkway, #250  
Alameda, CA 94502-6577  
(510) 567-6700

July 3, 1995  
StID # 4249

Mr. Mark Miller  
Chevron USA Products Co.  
6001 Bollinger Canyon Rd., Bldg. L  
P. O. Box 5004  
San Ramon, CA 94583-0804

**Re: Revised Location for Monitoring Well at 3616 San Leandro  
St., Oakland 94601**

Dear Mr. Miller:

This letter recounts our recent conversation regarding the additional site assessment scheduled for the above site. I have received and reviewed the June 29, 1995 fax and agree with the location of the "preferred" monitoring well location. In addition, I requested that both soil and a grab groundwater sample be taken from boring SB-1.

Our office also agrees at this time no further upgradient investigation is required. After the installation of the off-site well, you may want to verify that site conditions are amenable to the Non-Attainment management policy.,

Please notify me at least 48 working hours prior to your field work so I may arrange to be present if possible.

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

Sincerely,

Barney M. Chan  
Hazardous Materials Specialist

cc: Mr. J. Ratto, 191 98th Ave., Oakland CA 94603  
Mr. and Mrs. McIlraith, 1809 Golden Rain Rd., #5, Walnut  
Creek, CA 94520  
M. Blundell, Groundwater Tech, 4057 Port Chicago Highway,  
Concord, CA 94520  
J. Makishima, files

MWloc3616



ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY



DAVID J. KEARS, Agency Director

R0233

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

May 9, 1994  
StID # 4249

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

Mr. Mark Miller  
Chevron USA Products Company  
2410 Camino Ramon  
P. O. Box 5004  
San Ramon, CA 94583-0804

**Re: Comment on March 25, 1994 Work Plan for Additional Site  
Assessment for Former Chevron Station #9-4612, 3616 San  
Leandro St., Oakland 94601**

Dear Mr. Miller:

Our office has received and reviewed the above referenced work plan for additional site assessment for the former Chevron station at 3616 San Leandro Street. This work plan calls for the installation of one boring near the former pump island and one monitoring well further downgradient across San Leandro Street. This investigation will help to define the limits of soil and groundwater contamination downgradient to the former tanks and pump islands and is acceptable, however, our office also requests additional investigation near the former fuel tanks.

Our request for this additional investigation is based on the lack of soil data from the original tank removals plus the consistent gasoline and BTEX contamination being found in well VH-1. The former tank area may still be a source of soil and groundwater contamination. An additional monitoring well will be required to determine the upgradient limits of the groundwater contamination. It may be more efficient for your subsurface investigation to perform this additional work along with the proposed boring and monitoring well. In any event, please respond to this request, within 30 days, or by June 13, 1994.

Please contact me at least 48 working hours prior to any field activities so I may arrange to be onsite if possible. You may contact me at (510) 271-4530 if you have any questions.

Sincerely,

Barney M. Chan, Hazardous Materials Specialist

cc: J. Ratto, 191 98th Ave., Oakland CA 94603  
Mr. & Mrs. McIlraith, 1809 Golden Rain Rd., #5, Walnut Creek,  
CA 94595  
M. Blundell, Groundwater Tech, 4057 Port Chicago Highway,  
Concord, CA 94520  
E. Howell, files wpad3616

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

RO 233

August 26, 1993  
StID # 4249

Mr. Mark Miller  
Chevron USA Products Co.  
P.O. 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  
80 Swan Way, Rm 200  
Oakland, CA 94621  
(510) 271-4530

**Re: Status of Subsurface Investigation for Former Chevron  
Service Station #9-4612, 3616 San Leandro St.,  
Oakland CA 95601**

Dear Mr. Miller:

Our office has received and reviewed the July 14, 1993 groundwater sampling report for the above site as performed by Groundwater Technology and described in your August 18, 1993 cover letter. The report shows the continual elevated gasoline and benzene concentration in groundwater well, VH-1, as has been seen since August 1988. It also shows elevated gasoline and benzene concentration in MW-3 and to a lesser degree in MW-2.

Your letter states that although the groundwater gradient is not as anticipated, it remains consistent and therefore more frequent groundwater elevation readings are not justified. Your April 21, 1993 states that once the groundwater flow direction has been established, you will instruct your consultants to prepare a work plan to delineate impacts to soil and groundwater. This letter requests submission of such a work plan to be included in your next quarterly monitoring report, (This assumes gradient for your August sampling is consistent with the two prior readings). Since relatively little is known about the subsurface soils, a boring or soil vapor survey would be in order in the areas of the former underground tanks and pump islands. We would also anticipate additional well(s) to determine the extent of groundwater contamination. You may contact me at (510) 271-4530 if you have any questions.

Sincerely,

Barney M. Chan  
Hazardous Materials Specialist

cc: J. Ratto, 191 98th Ave., Oakland CA 94603  
Mr. and Mrs. McIlraith, 1809 Golden Rain Rd., #5, Walnut  
Creek, CA 94595  
T. Watchers, Groundwater Tech., 4057 Port Chicago Highway,  
Concord, CA 94520  
E. Howell, files wp3616SL

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY



DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

R0233

April 27, 1993  
StID # 4249

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

Mr. Mark Miller  
Chevron USA Products Co.  
P.O. Box 5004  
San Ramon, CA 94583-0804

**Re: Comment on April 12, 1993 Environmental Assessment for  
former Chevron Station, 3616 San Leandro St., Oakland 94601**

Dear Mr. Miller,

Thank you for the submission of the above referenced report detailing the installation of two additional monitoring wells and the sampling of a total of three wells. Our office agrees that further soil and groundwater investigation should be performed after the groundwater gradient has been determined. Our office also has the following observations and suggestions:

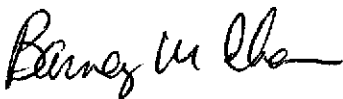
1. Groundwater elevation measurements should be performed on a **monthly** basis for the next two quarter and reported in the quarterly reports.
2. Please analyze MW-3, the well closest to the former waste oil tank, for the additional waste oil parameters; Total Oil and Grease, Total Petroleum Hydrocarbons as diesel and Chlorinated Hydrocarbons. These parameters should be run for several quarters to insure that there aren't these contaminants in addition to gasoline and BTEX.
3. It appears from the boring logs that monitoring wells 2 and 3 may have been drilled into a unconfined aquifer while well VH-1 was drilled into a confined aquifer. This may contribute to the unexpected northeasterly gradient being found on this site.
4. There appears to be contaminated saturated soils in the 15 feet depth beneath MW-2 and MW-3 which will need to be investigated.

Please comment of the the above items in your next quarterly monitoring report.

Mr. Mark Miller  
StID #4249  
3616 San Leandro St.  
April 27, 1993  
Page 2.

You may contact me at (510) 271-4530 should you have any questions.

Sincerely,



Barney M. Chan, Hazardous Materials Specialist

cc: R. Hiett, RWQCB  
T. Watchers, Groundwater Tech, 4057 Port Chicago Highway,  
Concord, CA 94520

J. Ratto, 191 98th Ave., Oakland CA 94603  
Mr. and Mrs. McIlraith, 1809 Golden Rain Rd., #5, Walnut  
Creek, CA 94595

E. Howell, files

Qtr-3616SLSt

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J. KEARS, Agency Director



R0233

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

February 1, 1993  
StID # 4249

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

Mr. Mark Miller  
2410 Camino Ramon  
San Ramon, CA 94583-0804

**Re: Request for Further Subsurface Investigation at 3616 San  
Leandro St., Oakland, CA 94601**

Dear Mr. Miller:

Please be advised that the oversight of the remediation at the above referenced site has been transferred to the Local Oversight Program (LOP) section of Alameda County Environmental Health, Hazardous Materials Division and your new contact will be the undersigned Hazardous Materials Specialist. Our office hopes with this change will expedite Chevron's goal of further site investigation and remediation.

The County files for this site are rather limited and I would request at this time any additional reports which may clarify the source of the gasoline and BTEX contamination being found in well, VH-1. Specifically, please provide all reports detailing the removal of former fuel and waste oil tanks and their associated piping. Our records start with the August 10, 1989 quarterly monitoring report which gives the results of groundwater samples starting from August 10, 1988 for monitoring well VH-1, the well west of the three former gasoline USTs. The August 10, 1988 results showed 11 parts per million Total Purgeable Petroleum Hydrocarbons ie gasoline and 3.3, 0.52, 0.2 and 0.54 ppm BETX respectively. Over a period of three plus years, the concentrations of gasoline and benzene has remained very high, significantly exceeding the MCL for benzene, 1 ppb.

To summarize our conversation today, our office has the following request and concerns:

1. Provide the tank closure report for the removal of the gasoline and waste oil tanks at this site.
2. Provide the report detailing the installation of monitoring well, VH-1.
3. Our office looks forward to the report detailing the installation of the two additional on-site wells near the former pump island and waste oil tank.

Mr. Mark Miller  
StID # 4249  
3616 San Leandro St.  
February 1, 1993  
Page 2.

4. Please provide all groundwater monitoring reports after the September 1991 report, which is the latest our office has.

5. If the assumed westerly-southwesterly gradient is verified, additional downgradient well(s) will be needed to delineate the hydrocarbon groundwater plume. Because of the consistently high dissolved gasoline and BTEX being found, there is concern the extent of soil contamination has not been determined. This must be done if it hasn't already.

Lastly, our office would like to clarify the responsibility of all responsible parties regarding the remediation of hydrocarbon contaminated sites. Responsible parties include: any person who owns or operates an underground tank used for the storage of any hazardous material, any person who owned or operated the underground tank before the discontinuation of its use, any owner of the property when an unauthorized release of hazardous material occurred or any person who has or had control over a underground storage tank at the time of or following an unauthorized release of a hazardous material. These responsible parties must provide and perform site assessment and remediation in accordance to Article 11 of Title 23 California Code of Regulations and in accordance with the Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites. In the event that this work is not performed, the Regional Water Quality Control Board (RWQCB) may issue a Cleanup and Abatement Order. If the remediation is still not performed, the RWQCB may perform the remediation and bill all expenses to the responsible parties.

You may contact me at (510) 271-4530 should you have any questions regarding this letter.

Sincerely,



Barney M. Chan  
Hazardous Materials Specialist

cc: G. Jensen, RWQCB  
R. Hiatt, RWQCB  
Mr. Jack Ratto, 191 98th Ave., Oakland CA 94603  
Mr. and Mrs. McIlraith, 1809 Golden Rain Rd. #5, Walnut  
Creek, CA 94595

1-3616SL