

Chevron Environmental
Management Company
6001 Bollinger Canyon Rd, K2236
P.O. Box 6012
San Ramon, CA 94583-2324
Tel 925-842-9559
Fax 925-842-8370

Dana Thurman
Project Manager

RECEIVED

By loprojectop at 9:04 am, Nov 29, 2005

November 28, 2005

(date)

ChevronTexaco

Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Chevron Service Station # 9-2029

Address: 890 West MacArthur Blvd., Oakland, California

I have reviewed the attached report titled Conduit Study
and dated November 28, 2005.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Cambria Environmental Technology, Inc., upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,



Dana Thurman
Project Manager

Enclosure: Report

C A M B R I A

RECEIVED

By loprojectop at 9:05 am, Nov 29, 2005

November 28, 2005

Mr. Barney Chan
Alameda County Health Care Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: **Conduit Study**
Chevron Service Station 9-2029
890 W. MacArthur Blvd.
Oakland, California
Fuel Leak Case #RO0002438



Dear Mr. Chan:

On behalf of Chevron Products Company (Chevron), Cambria Environmental Technology, Inc. (Cambria) is submitting a *Conduit Study* for the site referenced above. The conduit study was requested by Alameda County Health Care Services (ACHCS) in a letter dated October 26, 2005 (Attachment A).

CONDUIT STUDY

Cambria identified several utilities in the site vicinity by reviewing East Bay Municipal Utility District (EBMUD) and the City of Oakland utility maps. As shown on Figure 1, water lines run parallel with West MacArthur Boulevard on the north and south sides, along the east side of Market Street, and down the center of Market Street south of West MacArthur Boulevard. Sanitary sewer and storm drain lines run along the center of Market Street, and along the north and south sides of West MacArthur Boulevard. Telephone, communication and electrical lines are above ground in the site area.

Historical depth to groundwater measurements at the site range from approximately 8 feet below grade (fbg) to 11 fbg. The depth to flow-line (dtfl) in the storm and sewer lines are approximately 7 fbg to 15 fbg. Using these measurements, the base of the trench backfill material for these lines is estimated at approximately 8 fbg to 16 fbg.

**Cambria
Environmental
Technology, Inc.**

4111 Citrus Avenue
Suite 12
Rocklin, CA 95677
Tel (916) 630-1855
Fax (916) 630-1856

LITHOLOGY

Boring logs from the existing wells onsite suggest that the soil to approximately 22 fbg consists of clays and silts with low permeability.

CONCLUSIONS



The depth to water in wells MW-3 and MW-4, near the intersection of MacArthur Boulevard and Market Street where the subsurface utilities are located, has ranged from approximately 8 to 11 fbg. The greatest estimated depth of utility trench backfill materials associated with these utilities is likely 16 fbg. While groundwater appears to intercept the trench backfill, construction techniques prior to 1975 when these buried utility lines were installed, native material was used as backfill. The native material at this depth likely consisted of clays and silts with low permeability; therefore, it is unlikely that any trench backfill in the site vicinity provides a significant pathway for preferential groundwater flow and based on the locations of identified, buried utility lines, no change in location of proposed soil borings is necessary.

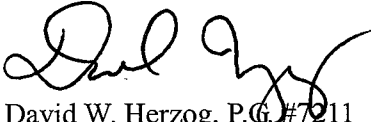
CLOSING

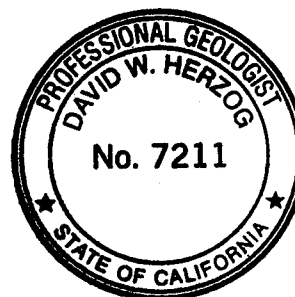
Please contact Leon Gearhart at (916) 630-1855 if you have any questions or comments.

Sincerely,

Cambria Environmental Technology, Inc.

Leon Gearhart
Staff Scientist


David W. Herzog, P.G. #7211
Senior Project Geologist



C A M B R I A

Mr. Barney Chan
November 28, 2005

Figures: 1 – Site Plan with Utilities

Attachments: A – Regulatory Correspondence




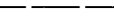

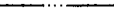

cc: Mr. Dana Thurman, Chevron Environmental management, P.O. Box 6012, San Ramon,
CA 94583

Mr. Jesse Kupers, OFD, 250 Frank Ogawa Plaza, Suite 3341, Oakland, CA 94612

R:\9-2029 Oakland\Conduit Study .doc



EXPLANATION

- MW-1  Monitoring Well Location
- SB-1  Soil Boring Location
-  Proposed Soil Boring Location
-  Storm drain (SD)
-  Sanitary sewer (SS)
-  Water line (W)
-  Manhole
- FL = 37.78 Flow line elevation, in feet above mean sea level (msl)

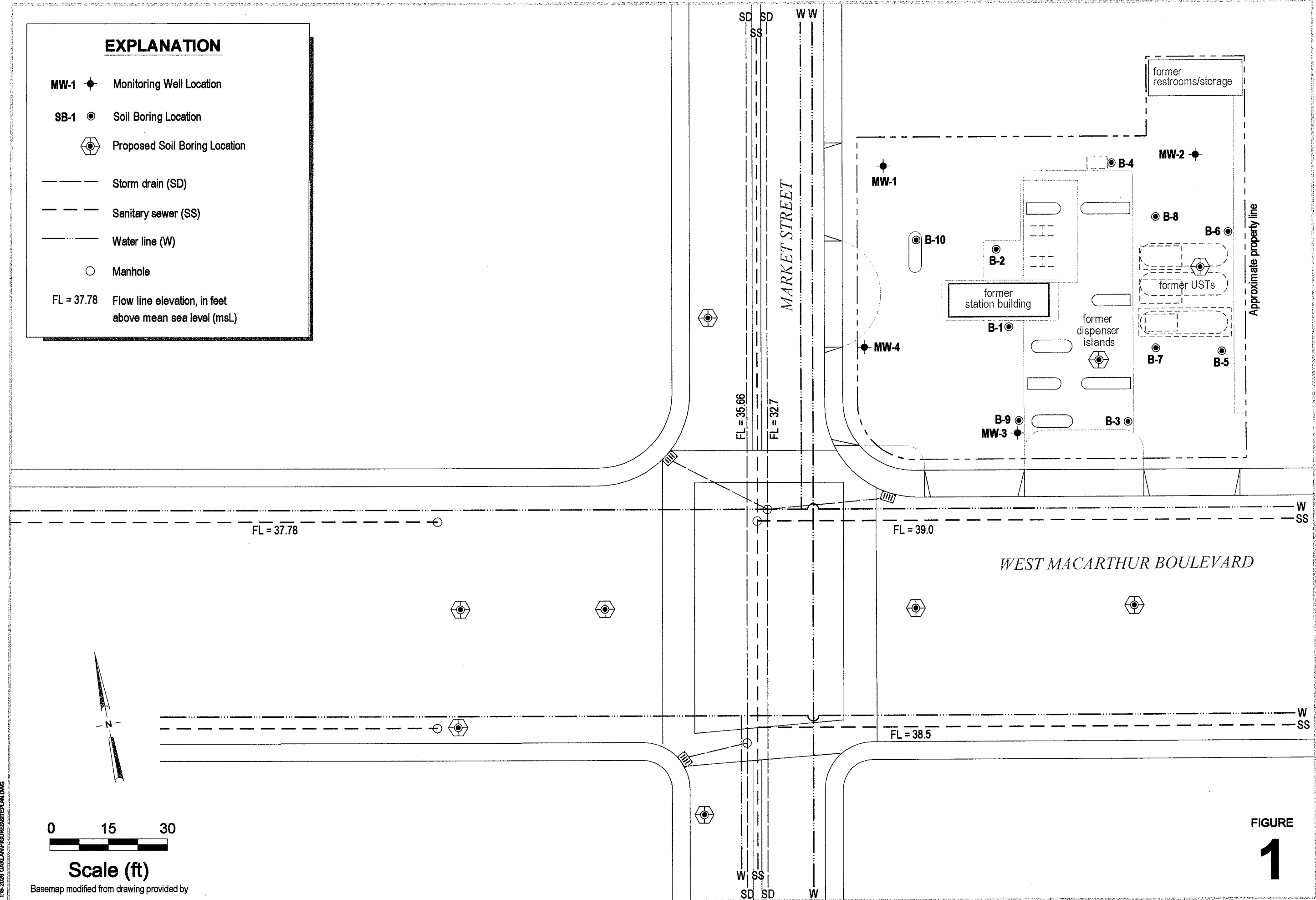


FIGURE
1

11-9-2029 CAM\AVI\RES\SYSTEM\AN.DWG

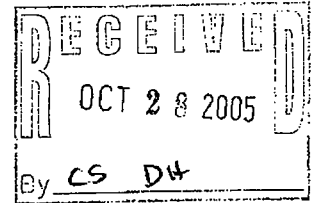
Basemap modified from drawing provided by

ATTACHMENT A

REGULATORY CORRESPONDENCE

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

October 26, 2005

Mr. Dana Thurman
Chevron Environmental Management Co.
6001 Bollinger Canyon Rd., K2236
P.O. Box 6012
San Ramon, CA 94583-2324

Dear Thurman:

Subject: Fuel Leak Case No. RO0002438, Chevron #9-2029, 890 West MacArthur Blvd.,
Oakland, CA 94608

Alameda County Environmental Health (ACEH) staff has recently reviewed the case file for the subject site including the September 19, 2005 *Investigation Workplan*, prepared by Cambria Environmental. This work plan responds to the County's prior August 26, 2005 letter. We request that you address the following technical comments, perform the proposed work, and send us the technical reports requested below.

TECHNICAL COMMENTS

1. **Conduit Study-** A conduit study was not proposed in your work plan as requested in our 8/26/05 letter. Therefore, prior to performing the proposed work, we request you perform a utilities/conduit study to insure that the proposed boring locations are not affected by existing preferential pathways. Please submit your conduit study as requested below and confirm your conclusion regarding the utilities and conduits with our office prior to performing the proposed work.
2. **Contaminant Plume Definition-** The work plan proposes advancing eight (8) Geoprobe borings down-gradient of wells MW-3 and MW-4, the current most impacted wells at the site. One of the borings is proposed down-gradient of the former UST pit, where the highest soil concentrations were found. Three depth discrete groundwater samples are proposed to determine the three dimensional characteristics of the plume. We approve this work with the following recommended changes.
 - The locations of the borings should be omitted or changed according to the attached figure 2. The recommended changes include omitting the two westernmost borings, adding three additional borings to define the north, south and east edges of the plume, moving one boring closer to EX28, the highest post-excavation sample and moving one boring into the former tank pit, formerly not sampled.
 - Groundwater samples proposed for sampling at depths of 10, 17 and 25 fbg, should be collected at first encountered groundwater believed to be 10-15 fbg and at approximately 10-15' below the first encountered depth. Soil samples should be examined and screened every five feet with those exhibiting odors analyzed by the laboratory.
 - Soil and groundwater samples should be tested for TPHg and BTEX, MTBE, TAME, ETBE, DIPE, TBA, EDB, EDC and ethanol by EPA Method 8260. Please submit your soil and groundwater investigation report as requested below.

Mr. Dana Thurman
October 26, 2005
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TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health according to the following schedule:

- November 28, 2005- Conduit Study
- 60 days after completion of SWI- Soil and Groundwater Investigation Report

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

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) now request submission of reports in electronic form. The electronic copy is intended to replace the need for a paper copy and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all reports is required in Geotracker (in PDF format). Please visit the State Water Resources Control Board for more information on these requirements ([http://www.swrcb.ca.gov/ust/cleanup/electronic reporting](http://www.swrcb.ca.gov/ust/cleanup/electronic%20reporting)).

PERJURY STATEMENT

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

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or

Mr. Dana Thurman
October 26, 2005
Page 3

certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

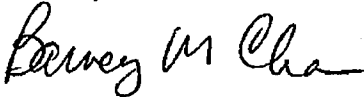
Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

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

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

Sincerely,



Barney M. Chan
Hazardous Materials Specialist

Enclosure: Figure 2

C:\files, D. Drogos

Mr. David Herzog, Cambria Environmental, 4111 Citrus Ave., Suite 9, Rocklin, CA 95677

Mr. Jesse Kupers, OFD, 250 Frank Ogawa Plaza, Suite 3341, Oakland, CA 94612

10_28_05 890 WMacArthur