



November 30, 2018

Ms. Shelby Lathrop
Chevron Environmental Management Co.
6101 Bollinger Canyon Road
San Ramon, CA 94583
(Sent via electronic mail to:
slathrop@chevron.com)

Mr. Mark Johannes Arniola
City of Oakland
250 Frank Ogawa Plaza, Suite 5301
Oakland, CA 94612
(Sent via electronic mail to:
marniola@oaklandnet.com)

Subject: Request for Corrective Action Implementation Plan (CAIP); Fuel Leak Case No. RO0000137 and Geotracker Global ID T0600100313, Chevron #9-0019, 210 Grand Avenue, Oakland, CA 94610

Dear Ms. Lathrop and Mr. Arniola:

Alameda County Department of Environmental Health (ACDEH) has reviewed the case file, including the *Corrective Action Plan*, dated October 9, 2018. The Corrective Action Plan (CAP) was prepared and submitted on your behalf by Arcadis, Inc.

The CAP evaluated three alternative options for the remediation of residual source material in the vicinity of well MW-5 which continues to degrade groundwater in the vicinity of the well above Water Quality Goals (WQOs). The CAP proposed the anaerobic degradation with the use of sulfate-bearing gypsum in two installation approaches and the use of vacuum-enhanced total fluid recovery with a mobile remediation treatment system. The three alternatives were evaluated for effectiveness, long-term reliability, implementability, implementation risk, and cost. Total costs were very similar and in the same order of magnitude. Vacuum-enhanced total fluid recovery was selected, with anaerobic degradation as a potential subsequent secondary option.

At this juncture ACDEH requests that you to address the Technical Comments provided below and submit the document identified below.

TECHNICAL COMMENTS

- 1. Public Participation** - Public participation is a requirement for the Corrective Action Plan process. Therefore, we request that you submit a Draft public participation flyer for ACDEH review. ACDEH will notify potentially affected members of the public who live or own property in the surrounding area of the proposed remediation described in the Draft CAP. An example draft public notification flyer will be forwarded under separate cover for modification for the site. Public comments on the proposed remediation will be accepted for a 30-day period. Any appropriate responses, will be forwarded to Chevron's team for consideration and a response.
- 2. Corrective Action Implementation Plan (CAIP)** – Concurrent with public comments, ACDEH requests the generation of a CAIP to identify corrective action metrics for the system including methods to determine the implementation processes, total fluids recovery operational time, monitoring criteria, termination criteria, etc. Please ensure that a registered professional engineer signs and stamps the CAIP. Please submit the CAIP by the date identified below.
- 3. Electronic Report and Data Upload Compliance** – A review of the case file and the State's Geotracker database indicates that the site is not in compliance with previous directive letters. Compliance is also a State requirement. Pursuant to California Code of Regulations, Title 23, Division 3, Chapter 16, Article 12, Sections 2729 and 2729.1, beginning September 1, 2001, all analytical data, including monitoring well samples, submitted in a report to a regulatory agency as part of the UST or LUST program, must be transmitted electronically to the SWRCB GeoTracker system via the internet.

In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs, including SLIC programs. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites was required in GeoTracker.

At present missing data includes, EDF submittals between 2012 and 2016, and historic bore logs (excluding wells). ACDEH requests notification of, and a list of, the documents uploaded to Geotracker. Please upload all submittals to GeoTracker by the date specified below.

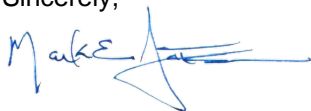
TECHNICAL REPORT REQUEST

Please submit the following technical reports and deliverables to the State Water Board's Geotracker website and notify your case worker by electronic mail (mark.detterman@acgov.org), in accordance with the following specified file naming convention and schedule, as provided below, and in the Responsible Party(ies) Legal Requirements/Obligations which is included as Attachment 1. Please note ACDEH no longer accepts reports on the ftp site.

- **December 31, 2018** – Geotracker Compliance Uploads
Please email your case worker upon completion
- **January 4, 2019** – Draft Public Notice
To be returned as a Word document by email to your case worker.
- **February 1, 2019** – Corrective Action Implementation Plan
File to be named: RO137_CAIP_R_yyyy-mm-dd
- **June 7, 2019** – Groundwater Monitoring Report
File to be named: RO137_GWM_R_yyyy-mm-dd

Should you have any questions, please contact me at (510) 567--6876 or send me an electronic mail message at mark.detterman@acgov.org.

Sincerely,



Mark E. Detterman, PG 4799, CEG 1788
Senior Geologist
Senior Hazardous Materials Specialist

Enclosures: Attachment 1 – Responsible Party (ies) Legal Requirements/Obligations and Electronic Report Upload (ftp) Instructions

cc: Katherine Szymanowski, ARCADIS, Inc, 2300 Clayton Road, Suite 400, Concord, CA 94520;
(Sent via electronic mail to: Katherine.Szymanowski@arcadis.com)

Dilan Roe, ACDEH, (Sent via electronic mail to: dilan.roe@acgov.org)
Paresh Khatri, ACDEH; (Sent via electronic mail to: paresh.khatri@acgov.org)
Mark Detterman, ACDEH, (Sent via electronic mail to: mark.detterman@acgov.org)
Electronic File; GeoTracker

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| Alameda County Environmental Cleanup Oversight Programs (LOP and SCP) | REVISION DATE: December 14, 2017 |
| | ISSUE DATE: July 25, 2012 |
| | PREVIOUS REVISIONS: September 17, 2013, May 15, 2014, December 12, 2016 |
| SECTION: ACDEH Procedures | SUBJECT: Responsible Party(ies) Legal Requirements / Obligations |

REPORT & DELIVERABLE REQUESTS

Alameda County Department of Environmental Health (ACDEH) Cleanup Oversight Programs, Local Oversight Program (LOP) and Site Cleanup Program (SCP) require submission of all reports in electronic form to the State Water Board's (SWB) GeoTracker website in accordance with California Code of Regulations, Chapter 30, Division 3, Title 23 and Division 3, Title 27.

Leaking Underground Fuel Tank (LUFT) Cases

Reports and deliverable requests are 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 (RP) in conjunction with an unauthorized release from a petroleum underground storage tank (UST) system.

Site Cleanup Program (SCP) Cases

For non-petroleum UST cases, reports and deliverables requests are pursuant to California Health and Safety Code Section 101480.

ELECTRONIC SUBMITTAL OF REPORTS

A complete report submittal includes the PDF report and all associated electronic data files, including but not limited to GEO_MAP, GEO_XY, GEO_Z, GEO_BORE, GEO_WELL, and laboratory analytical data in Electronic Deliverable Format™ (EDF). Additional information on these requirements is available on the State Water Board's website (http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/)

- Do not upload draft reports to GeoTracker
- Rotate each page in the PDF document in the direction that will make it easiest to read on a computer monitor.

GEOTRACKER UPLOAD CERTIFICATION

Each report submittal is to include a GeoTracker Upload Summary Table with GeoTracker valid values¹ as illustrated in the example below to facilitate ACDEH review and verify compliance with GeoTracker requirements.

GeoTracker Upload Table Example

| Report Title | Sample Period | PDF Report | GEO_MAPS | Sample ID | Matrix | GEO_Z | GEO_XY | GEO_BORE | GEO_WELL | EDF |
|---|---------------|------------|----------|-----------|--------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 2016 Subsurface Investigation Report | 2016 S1 | ✓ | ✓ | Effluent | SO | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | ✓ |
| 2012 Site Assessment Work Plan | 2012 | ✓ | ✓ | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2010 GW Investigation Report | 2008 Q4 | ✓ | ✓ | SB-10 | W | ✓ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | ✓ |
| | | | | SB-10-6 | SO | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | ✓ |
| | | | | MW-1 | WG | ✓ | ✓ | ✓ | ✓ | ✓ |
| | | | | SW-1 | W | ✓ | ✓ | ✓ | ✓ | ✓ |

¹ GeoTracker Survey XYZ, Well Data, and Site Map Guidelines & Restrictions, CA State Water Resources Control Board, April 2005

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| Alameda County Environmental Cleanup Oversight Programs (LOP and SCP) | REVISION DATE: NA |
| | ISSUE DATE: December 14, 2017 |
| | PREVIOUS REVISIONS: September 17, 2013, May 15, 2014, December 12, 2016 |
| SECTION: ACDEH Procedures | SUBJECT: Responsible Party(ies) Legal Requirements / Obligations |

ACKNOWLEDGEMENT STATEMENT

All work plans, technical reports, or technical documents submitted to ACDEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I have read and acknowledge the content, recommendations and/or conclusions contained in the attached document or report submitted on my behalf to the State Water Board's GeoTracker website." This letter must be signed by the Responsible Party, or legally authorized representative of the Responsible Party.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6731, 6735, and 7835) 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 licensed or certified professional and include the professional registration stamp, signature, and statement of professional certification. Additional information is available on the Board of Professional Engineers, Land Surveyors, and Geologists website at: <http://www.bpelsg.ca.gov/laws/index.shtml>.

UNDERGROUND STORAGE TANK CLEANUP FUND

For LUFT cases, RP's non-compliance with these regulations may result in ineligibility to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse the cost of cleanup. Additional information is available on the internet at: https://www.waterboards.ca.gov/water_issues/programs/ustcf/

AGENCY OVERSIGHT

Significant delays in conducting site assessment/cleanup or report submittals may result in referral of the case to the Regional Water 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.