ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY



ALEX BRISCOE, Agency Director

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

June 3, 2013

Mr. Ron Mooney California Syrup & Extract PO Box 8305 Emeryville, CA 94608

(sent via electronic mail to: ron@mooney.net)

Subject: Request for Data Gap Work Plan and Groundwater Monitoring; Fuel Leak Case No.

RO0000046 and Geotracker, Global ID # T0600101623, California Syrup & Extract, 1355

55th Street, Emeryville, CA 94508

Dear Mr. Mooney:

Alameda County Environmental Health (ACEH) staff has reviewed the case file including the *Soil and Groundwater Investigation Report*, dated September 7, 2012, and the *Fourth Quarter 2012 Groundwater Monitoring Report*, dated January 4, 2013. Both reports were prepared and submitted on your behalf by Gribi Associates, Inc (Gribi). Thank you for submitting the reports. In these reports, your consultant concluded that no further investigation is warranted at the site, and recommend regulatory case closure as a "low risk" site.

ACEH has evaluated the data and recommendations presented in the above-mentioned reports, in conjunction with the case files and the State Water Resources Control Board's (SWRCBs) Low-Threat Underground Storage Tank Case Closure Policy (LTCP) criteria). Based on ACEH staff review, we have determined that the site fails to meet the LTCP General Criteria e (Site Conceptual Model), and the Media-Specific Criteria for Groundwater and Vapor Intrusion to Indoor Air (see Attachment A for a copy of the LTCP checklist). ACEH's determination is based on the presence of an onsite non-decommissioned water supply well located approximately 100 feet downgradient of well MW-2 with the highest concentrations in groundwater, and insufficient data and analysis to support the protection of human occupants of existing buildings from vapor intrusion.

Therefore, at this juncture ACEH requests that you prepare a Data Investigation Work Plan that is supported by a focused Site Conceptual Model (SCM) to address the Technical Comments provided below.

TECHNICAL COMMENTS

1. LTCP Media Specific Criteria for Vapor Intrusion to Indoor Air – The LTCP describes conditions, including bioattenuation zones, which if met will assure that exposure to petroleum vapors in indoor air will not pose unacceptable health risks to human occupants of existing or future site buildings, and adjacent parcels. Appendices 1 through 4 of the LTCP criteria illustrate four potential exposure scenarios and describe characteristics and criteria associated with each scenario.

Our review of the case files indicates that the site data and analysis fail to support the requisite characteristics of one of the four scenarios. The site is currently used as a professional office building in a mixed residential / commercial setting, with commercial / industrial uses to the west. Existing soil samples appear to indicate somewhat limited impact to soil at the site; however, the lack of collected soil samples in the 0 to 5 foot interval, and the apparent presence of contaminated soil above 100 milligrams per kilogram (mg/kg) beginning at an approximate depth of 4 feet below grade surface (bgs) to approximately 10 feet bgs, causes the site to fail the Vapor Media Specific Criteria of the LTCP (does not allow a determination of the risk of vapor intrusion to existing structures at the site by

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alternative means under the LTCP). Therefore, please present a strategy in the Data Gap Investigation Work Plan described in Technical Comment 4 below to collect additional data to satisfy the bioattenuation zone characteristics of Scenarios 1, 2 or 3, or to collect gas data to satisfy Scenario 4.

Alternatively, please provide justification of why the site satisfies the Media-Specific Criteria for Vapor Intrusion to Indoor Air in a SCM that assures that exposure to petroleum vapors in indoor air will not pose unacceptable health risks to occupants of future buildings.

Please note, that if direct measurement of soil gas is proposed, ensure that your strategy is consistent with the field sampling protocols described in the Department of Toxic Substances Control's Final Vapor Intrusion Guidance (October 2011). Consistent with the guidance, ACEH requires installation of permanent vapor wells to assess temporal and seasonal variations in soil gas concentrations.

2. LTCP Media Specific Criteria for Groundwater – To satisfy the media-specific criteria for groundwater, the contaminant plume that exceeds water quality objectives must be stable or decreasing in aerial extent, and meet all of the additional characteristics of one of the five classes of sites listed in the policy. Depending on the sub-criteria selected, this Criterion specifically excludes water supply wells within 250 to 1,000 feet of a release.

The referenced site investigation report documents the installation of bore B-1 and wells MW-3 and MW-4, and the subsequent groundwater monitoring of the four well network. The site investigation report documented groundwater concentrations up to 4,100 μ g/l TPHg, 750 μ g/l TPHd, 110 μ g/l benzene, and 4.0 μ g/l ethylbenzene. Five oxygenates (TBA, DIPE, ETBE, MTBE, and TAME), methyl ethyl ketone (MEK), and methyl isobutyl ketone (MIBK), ammonia, and total nitrogen were either non-detectable or were not detected at levels of concern. The referenced more recent quarterly report documented fluctuating groundwater concentrations of most contaminants, but included a decrease in the benzene concentration.

Our review of the site appears to indicate the dissolved-phase plume may be adequately defined; however, the case files indicate that, as noted above, it appears that an un-decommissioned onsite water supply well is located approximately 100 feet downgradient of well MW-2 (containing the highest groundwater concentrations), causing the site to fail this Criterion. Upon conferring with Alameda County Public Works Agency (ACPWA), ACPWA has stated they do not have a record of proper well decommissioning.

Please propose work to relocate and decommission the well, or alternatively please provide justification of why the site satisfies the media-specific criteria for groundwater in the SCM (described in Item 4) that assures that threats to existing and anticipated beneficial uses of groundwater have been mitigated or are de minimis.

Additionally, please continue to monitor groundwater at the site to verify plume stability in accordance with the schedule below to collect sufficient data to demonstrate plume stability. Based on available results of analytes of concern at the site, ACEH requests continuation of the existing analytical suite (TPHd, TPHmo, TPHg, BTEX, and MTBE). ACEH requests that the use a silica gel cleanup on the extractable range hydrocarbons be used. Please conduct a minimum of one additional quarterly groundwater monitoring event, and submit the report by the date identified below.

3. LTCP Media Specific Criteria for Direct Contact and Outdoor Air Exposure - To satisfy the media-specific criteria for direct contact and outdoor air exposure sufficient soil samples are required to have been collected and analyzed to determine if residual soil contamination meets the concentrations listed in Table 1 of the policy. Alternatively a site specific risk assessment can be conducted to demonstrate that the maximum concentrations in soil will have no significant risk to adversely affect human health, or the regulatory agency can determine the concentrations will have no significant risk or adversely affect human health.

Our review of the case files indicates that insufficient data and analysis has been presented to determine that the site meets the LTCP direct contact and outdoor air exposure criteria. Specifically, it appears that insufficient soil samples have been collected within proximity of each of the four abandoned in-place petroleum storage tanks in the 0 to 5 foot depth zone as required by the shallow

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soil characterization pathway within this Criterion. At present, no soil samples have been collected in the 0 to 5 foot depth zone within the source zone(s), or downgradient of the fuel hydrocarbon UST. Because the USTs were abandoned in-place and the nature of the hydrocarbon release from the USTs is unknown, the data can be important in order to characterize the site under the LTCP.

Consequently, please present a strategy in the Data Gap Investigation Work Plan described in Technical Comment 4 below to collect additional data to satisfy the additional characteristics of one of the two classes of sites listed in the policy.

Alternatively, please provide justification of why the site satisfies the media-specific criteria for direct contact and outdoor air exposure in a focused SCM (described in Technical Comment 4) that assures that threats by residual shallow soil sources have been mitigated or are de minimis.

4. Data Gap Investigation Work Plan and Focused Site Conceptual Model – Please prepare Data Gap Investigation Work Plan to address the technical comments listed above. Please support the scope of work in the Data Gap Investigation Work Plan with a focused SCM and Data Quality Objectives (DQOs) that relate the data collection to each LTCP criteria. For example please clarify which scenario within each Media-Specific Criteria a sampling strategy is intended to apply to. If the sampling strategy includes data collection to support the proposed site redevelopment, a description of that redevelopment should be included in the Data Gap Investigation Work Plan to support your sampling strategy so that ACEH can verify the appropriateness of the proposed sample locations.

In order to expedite review, ACEH requests the SCM be presented in a tabular format that highlights the major SCM elements and associated data gaps, which need to be addressed to progress the site to case closure under the LTCP. Please see Attachment B "Site Conceptual Model Requisite Elements". Please sequence activities in the proposed Data Gap Investigation scope of work to enable efficient data collection in the fewest mobilizations possible.

Path to Closure Project Schedule - The State Water Resources Control Board passed Resolution No. 2012-0062 on November 6, 2012 which requires development of a "Path to Closure Plan" by December 31, 2013 that addresses the impediments to closure for the site. The Path to Closure must have milestone dates tied to calendar quarters which will achieve site cleanup and case closure in a timely and efficient manner and minimizes the cost of corrective action. Therefore, by the date listed below please prepare a Path to Closure Schedule for your site that incorporates the items identified by ACEH in the Technical Comments above as impediments to closure (further detailed in Attachment C). Additionally, please evaluate the site against the LTCP criteria and incorporate additional data collection activities in the Path to Closure Schedule and Data Gap Investigation Work Plan to address other impediments to closure under the policy not identified by ACEH. ACEH staff utilizes a Data Gap Identification Tool (DGIT) while reviewing cases for compliance with the LTCP criteria and identification of impediments to closure. We encourage you to also utilize the DGIT to (1) evaluate your site and develop an efficient path to site closure by focusing data collection efforts, if necessary, on the LTCP criteria, and (2) assist and expedite ACEH staff review of work plans and request for closures. ACEH will provide the DGIT as a PDF form via e-mail upon request. ACEH will review the schedule to ensure that all key elements are included.

TECHNICAL REPORT REQUEST

Please upload technical reports to the ACEH ftp site (Attention: Mark Detterman), and to the State Water Resources Control Board's Geotracker website, in accordance with the specified file naming convention below, according to the following schedule:

- August 9, 2013 Second Quarter 2013 Groundwater Monitoring Report File to be named: RO46_GWM_R_yyyy-mm-dd
- August 16, 2013 Data Gap Work Plan and Focused Site Conceptual Model File to be named: RO46_WP_R_yyyy-mm-dd
- September 6, 2013 Path to Closure Schedule File to be named: RO46_WP_R_yyyy-mm-dd
- Sixty Days After SCM and Data Gap Work Plan Approval Site Investigation Report File to be named: RO46_SWI_R_yyyy-mm-dd

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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.

Online case files are available for review at the following website: http://www.acgov.org/aceh/index.htm.

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, CEG Senior Hazardous Materials Specialist

Enclosures: Attachment 1 – Responsible Party (ies) Legal Requirements / Obligations

Electronic Report Upload (ftp) Instructions

Attachment A - Geotracker LTCP Checklist

Attachment B – Site Conceptual Model Requisite Elements

Attachment C – Path to Closure Project Schedule Requisite Elements

cc: James Gribi, Gribi Associates, 1090 Adams Street, Suite K, Benicia, CA 94510 (sent via electronic mail to: JGribi@gribiassociates.com)

Donna Drogos, ACEH, (sent via electronic mail to donna.drogos@acgov.org)

Dilan Roe (sent via electronic mail to donna.drogos@acgov.org)

Mark Detterman, ACEH, (sent via electronic mail to mark.detterman@acgov.org)

Geotracker, Electronic File

ATTACHMENT 1

Responsible Party(ies) Legal Requirements/Obligations
& ACEH Electronic Report Upload (ftp) Instructions

Attachment 1

Responsible Party(ies) Legal Requirements/Obligations

REPORT/DATA REQUESTS

These reports/data are being requested pursuant to Division 7 of the California Water Code (Water Quality), Chapter 6.7 of Division 20 of the California Health and Safety Code (Underground Storage of Hazardous Substances), and Chapter 16 of Division 3 of Title 23 of the California Code of Regulations (Underground Storage Tank Regulations).

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (Local Oversight Program [LOP] for unauthorized releases from petroleum Underground Storage Tanks [USTs], and Site Cleanup Program [SCP] for unauthorized releases of non-petroleum hazardous substances) require submission of reports in electronic format pursuant to Chapter 3 of Division 7, Sections 13195 and 13197.5 of the California Water Code, and Chapter 30, Articles 1 and 2, Sections 3890 to 3895 of Division 3 of Title 23 of the California Code of Regulations (23 CCR). Instructions for submission of electronic documents to the ACEH FTP site are provided on the attached "Electronic Report Upload Instructions."

Submission of reports to the ACEH FTP site is in addition to requirements for electronic submittal of information (ESI) to the State Water Resources Control Board's (SWRCB) Geotracker website. In April 2001, the SWRCB adopted 23 CCR, Division 3, Chapter 16, Article 12, Sections 2729 and 2729.1 (Electronic Submission of Laboratory Data for UST Reports). Article 12 required electronic submittal of analytical laboratory data submitted in a report to a regulatory agency (effective September 1, 2001), and surveyed locations (latitude, longitude and elevation) of groundwater monitoring wells (effective January 1, 2002) in Electronic Deliverable Format (EDF) to Geotracker. Article 12 was subsequently repealed in 2004 and replaced with Article 30 (Electronic Submittal of Information) which expanded the ESI requirements to include electronic submittal of any report or data required by a regulatory agency from a cleanup site. The expanded ESI submittal requirements for petroleum UST sites subject to the requirements of 23 CCR, Division, 3, Chapter 16, Article 11, became effective December 16, 2004. All other electronic submittals required pursuant to Chapter 30 became effective January 1, 2005. Please visit the SWRCB website for more information on these requirements. (https://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/)

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, 7835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, late 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.

Alameda County Environmental Cleanup Oversight Programs (LOP and SCP)

REVISION DATE: July 25, 2012

ISSUE DATE: July 5, 2005

PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010

SECTION: Miscellaneous Administrative Topics & Procedures

SUBJECT: Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (petroleum UST and SCP) 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.

REQUIREMENTS

- Please do not submit reports as attachments to electronic mail.
- Entire report including cover letter must be submitted to the ftp site as a single Portable Document Format (PDF) with no password protection.
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements must be included and have either original or electronic signature.
- <u>Do not</u> password protect the document. Once indexed and inserted into the correct electronic case file, the
 document will be secured in compliance with the County's current security standards and a password.
 <u>Documents with password protection will not be accepted.</u>
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Submission Instructions

- 1) Obtain User Name and Password
 - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
 - i) Send an e-mail to .loptoxic@acgov.org
 - b) In the subject line of your request, be sure to include "ftp PASSWORD REQUEST" and in the body of your request, include the Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.
- 2) Upload Files to the ftp Site
 - a) Using Internet Explorer (IE4+), go to ://alcoftp1.acgov.org
 - (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
 - b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
 - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
 - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
 - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
 - a) Send email to .loptoxic@acgov.org notify us that you have placed a report on our ftp site.
 - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
 - c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
 - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

ATTACHMENT A

Geotracker LTCP Checklist

TCP Checklist Go		GEOTRACKER HOME MANAGE PROJ	JECTS REPORTS SEARCH LO			
ALIFORNIA SYRUP & EXTRACT (T0600101	1623) - MAP THIS SITE	OPEN	- VERIFICATION MONITORIN			
355 55TH STREET	ACTIVITIES DEDORT	CLEANUP OVERSIGHT AGENCIES				
MERYVILLE , CA 94608	ACTIVITIES REPORT	ALAMEDA COUNTY LOP (LEAD) - CASE #: RO00000				
LAMEDA COUNTY EW PRINTABLE CASE SUMMARY FOR THIS SITE	PUBLIC WEBPAGE	CASEWORKER: MARK DETTERMAN - SUPER SAN FRANCISCO BAY RWQCB (REGION 2) - CASE:				
EW PRINTABLE CASE SUMMART FOR THIS SITE		CASEWORKER: Cherie McCaulou - SUPERVIS	OR: MARY ROSE CASSA			
THIS	PROJECT WAS LAST MODIFIED BY MARK	DETTERMAN ON 4/9/2013 10:57:15 AM - HISTORY				
THIS SITE HAS SUBMITTALS. CLICK HERE TO OPEN A NEW WINDOW WITH THE SUBMITTAL APPROVAL PAGE FOR THIS SITE.						
LOSURE POLICY THIS VERSION	ON IS IN PROGRESS AS OF 4	/9/2013 CHECKLIST INITIATED ON 12/13/2012	CLOSURE POLICY HISTO			
General Criteria - The site satisfies the police	cy general criteria - CLEAR SECTION ANS	WERS	NO			
a. Is the unauthorized release located within the s						
Name of Water System : EBMUD	, , , , , , , , , , , , , , , , , , ,		YES			
b. The unauthorized release consists only of petro	oleum (info).					
Contaminants : Chlorobenzene PCI		nloride Bromoform	O YES •			
Other: Ammonia, MEK, MI	BK, acetone					
c. The unauthorized ("primary") release from the	UST system has been stopped.		• YES •			
d. Free product has been removed to the maximu		ED Not E	Encountered YES			
e. A conceptual site model that assesses the natu			incountered TES			
Description (Check all that Apply):	ire, extent, and mobility of the release ha	s been developed (milo).				
GW Not Evaluated						
Groundwater Assessment Incomplete - Ad						
Groundwater Assessment Incomplete - De	epth of Contamination Not Defined					
Hydrogeology Not Adequately Defined Potential Receptors Not Identified			O YES •			
Soil Assessment Incomplete - Aerial Exter	nt Not Defined					
Soil Assessment Incomplete - Depth Unkr						
Soil Vapor Not Evaluated						
Other -						
Secondary source has been removed to the ext	ent practicable (info).		• YES •			
. Soil or groundwater has been tested for MTBE	and results reported in accordance with	Health and Safety Code Section	Not Required YES			
		- 1	Not required = 125			
	de section 13050.		O YES •			
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    The state of the state
   Bioattenuation Zone Thickness:
        < 5 Feet (No BioZone)</p>
≥ 5 Feet and < 10 Feet</p>
≥ 10 Feet and < 30 Feet</p>
≥ 30 Feet
30ft BioZone Compromised TPH > 100mg/kg
Unknown
  O2 Data in Bioattenuation Zone :
        No O<sub>2</sub> Data O<sub>2</sub> < 4% O<sub>2</sub> ≥ 4%
   Benzene in Groundwater :
        ≥ 100 µg/l and < 1,000 µg/l ≥ 1,000 µg/l Unknown
  Soil Gas Benzene :
       \ge 85 \ \text{µg/m}^3 \ \text{and} < 280 \ \text{µg/m}^3 \qquad \ge 280 \ \text{µg/m}^3 \ \text{and} < 85,000 \ \text{µg/m}^3 \qquad \ge 85,000 \ \text{µg/m}^3 \ \text{and} < 280,000 \ \text{µg/m}^3 \qquad \ge 280,000 \ \text{µg/m}^3 \qquad \text{Unknown}
  Soil Gas EthylBenzene :
        \geq 1,100 \mug/m³ and < 3,600 \mug/m³ \geq 3,600 \mug/m³ and < 1,100,000 \mug/m³ \geq 2,100,000 \mug/m³ and < 3,600,000 \mug/m³ \geq 3,600,000 \mug/m³ Unknown
  Soil Gas Naphthalene :
        ^{\circ} ≥ 93 µg/m³ and < 310 µg/m³ ^{\circ} ≥ 310 µg/m³ and < 93,000 µg/m³ ^{\circ} ≥ 93,000 µg/m³ and < 310,000 µg/m³ ^{\circ} ≥ 310,000 µg/m³ ^{\circ} Unknown
3. Media Specific Criteria: Direct Contact and Outdoor Air Exposure - The site is considered low-threat for direct contact and outdoor air exposure
                                                                                                                                                                                                                                                                              NO
if it meets 1, 2, or 3 below. - CLEAR SECTION ANSWERS
 EXEMPTION - The upper 10 feet of soil is free of petroleum contamination
                                                                                                                                                                                                                                                                   O YES O NO
Does the site meet any of the Direct Contact and Outdoor Air Exposure criteria scenarios?
                                                                                                                                                                                                                                                                   O YES NO
ADDITIONAL QUESTIONS - Please indicate only those conditions that do not meet the policy criteria:
   Exposure Type :
        Residential Commercial Utility Worker
  Petroleum Constituents in Soil :
        ≤ 5 Feet bgs ⇒ 5 Feet bgs and ≤10 Feet bgs Unknown
  Soil Concentrations of Benzene :
       > 1.9 mg/kg and ≤ 2.8 mg/kg  > 2.8 mg/kg and ≤ 8.2 mg/kg  > 8.2 mg/kg and ≤ 12 mg/kg  > 12 mg/kg and ≤ 14 mg/kg  > 14 mg/kg  Unknown
  Soil Concentrations of EthylBenzene :
       Soil Concentrations of Naphthalene :
        > 9.7 mg/kg and ≤ 45 mg/kg  > 45 mg/kg and ≤ 219 mg/kg  > 219 mg/kg  Unknown
  Soil Concentrations of PAH:
         > 0.063 mg/kg and ≤ 0,68 mg/kg  > 0.68 mg/kg and ≤ 4.5 mg/kg  > 4.5 mg/kg  Unknown
  Area of Impacted Soil:
        Area of Impacted Soil > 82 by 82 Feet Unknown
Additional Information
This case should be closed in spite of NOT meeting policy criteria.
                                                                                                                                                                                                                                                                   O YES O NO
                                                                                                                                   SPELL CHECK
                                                                                                                              Save in Progress
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ATTACHMENT B

Site Conceptual Model Requisite Elements

ATTACHMENT B

Site Conceptual Model

The site conceptual model (SCM) is an essential decision-making and communication tool for all interested parties during the site characterization, remediation planning and implementation, and closure process. A SCM is a set of working hypotheses pertaining to all aspects of the contaminant release, including site geology, hydrogeology, release history, residual and dissolved contamination, attenuation mechanisms, pathways to nearby receptors, and likely magnitude of potential impacts to receptors.

The SCM is initially used to characterize the site and identify data gaps. As the investigation proceeds and the data gaps are filled, the working hypotheses are modified, and the overall SCM is refined and strengthened until it is said to be "validated". At this point, the focus of the SCM shifts from site characterization towards remedial technology evaluation and selection, and later remedy optimization, and forms the foundation for developing the most cost-effective corrective action plan to protect existing and potential receptors.

For ease of review, Alameda County Environmental Health (ACEH) requests utilization of tabular formats to (1) highlight the major SCM elements and their associated data gaps which need to be addressed to progress the site to case closure (see Table 1 of attached example), and (2) highlight the identified data gaps and proposed investigation activities (see Table 2 of the attached example). ACEH requests that the tables presenting the SCM elements, data gaps, and proposed investigation activities be updated as appropriate at each stage of the project and submitted with work plans, feasibility studies, corrective action plans, and requests for closures to support proposed work, conclusions, and/or recommendations.

The SCM should incorporate, but is not limited to, the topics listed below. Please support the SCM with the use of large-scaled maps and graphics, tables, and conceptual diagrams to illustrate key points. Please include an extended site map(s) utilizing an aerial photographic base map with sufficient resolution to show the facility, delineation of streets and property boundaries within the adjacent neighborhood, downgradient irrigation wells, and proposed locations of transects, monitoring wells, and soil vapor probes.

- a. Regional and local (on-site and off-site) geology and hydrogeology. Include a discussion of the surface geology (e.g., soil types, soil parameters, outcrops, faulting), subsurface geology (e.g., stratigraphy, continuity, and connectivity), and hydrogeology (e.g., water-bearing zones, hydrologic parameters, impermeable strata). Please include a structural contour map (top of unit) and isopach map for the aquitard that is presumed to separate your release from the deeper aquifer(s), cross sections, soil boring and monitoring well logs and locations, and copies of regional geologic maps.
- b. Analysis of the hydraulic flow system in the vicinity of the site. Include rose diagrams for depicting groundwater gradients. The rose diagram shall be plotted on groundwater elevation contour maps and updated in all future reports submitted for your site. Please address changes due to seasonal precipitation and groundwater pumping, and evaluate the potential interconnection between shallow and deep aquifers. Please include an analysis of vertical hydraulic gradients, and effects of pumping rates on hydraulic head from nearby water supply wells, if appropriate. Include hydraulic head in the different water bearing zones and hydrographs of all monitoring wells.
- c. Release history, including potential source(s) of releases, potential contaminants of concern (COC) associated with each potential release, confirmed source locations, confirmed release locations, and existing delineation of release areas. Address primary leak source(s) (e.g., a tank, sump, pipeline, etc.) and secondary sources (e.g., high-

ATTACHMENT B

Site Conceptual Model (continued)

concentration contaminants in low-permeability lithologic soil units that sustain groundwater or vapor plumes). Include local and regional plan view maps that illustrate the location of sources (former facilities, piping, tanks, etc.).

- d. Plume (soil gas and groundwater) development and dynamics including aging of source(s), phase distribution (NAPL, dissolved, vapor, residual), diving plumes, attenuation mechanisms, migration routes, preferential pathways (geologic and anthropogenic), magnitude of chemicals of concern and spatial and temporal changes in concentrations, and contaminant fate and transport. Please include three-dimensional plume maps for groundwater and two-dimensional soil vapor plume plan view maps to provide an accurate depiction of the contaminant distribution of each COC.
- e. Summary tables of chemical concentrations in different media (i.e., soil, groundwater, and soil vapor). Please include applicable environmental screening levels on all tables. Include graphs of contaminant concentrations versus time.
- f. Current and historic facility structures (e.g., buildings, drain systems, sewer systems, underground utilities, etc.) and physical features including topographical features (e.g., hills, gradients, surface vegetation, or pavement) and surface water features (e.g. routes of drainage ditches, links to water bodies). Please include current and historic site maps.
- g. Current and historic site operations/processes (e.g., parts cleaning, chemical storage areas, manufacturing, etc.).
- h. Other contaminant release sites in the vicinity of the site. Hydrogeologic and contaminant data from those sites may prove helpful in testing certain hypotheses for the SCM. Include a summary of work and technical findings from nearby release sites, including the two adjacent closed LUFT sites, (i.e., Montgomery Ward site and the Quest Laboratory site).
- i. Land uses and exposure scenarios on the facility and adjacent properties. Include beneficial resources (e.g., groundwater classification, wetlands, natural resources, etc.), resource use locations (e.g., water supply wells, surface water intakes), subpopulation types and locations (e.g., schools, hospitals, day care centers, etc.), exposure scenarios (e.g. residential, industrial, recreational, farming), and exposure pathways, and potential threat to sensitive receptors. Include an analysis of the contaminant volatilization from the subsurface to indoor/outdoor air exposure route (i.e., vapor pathway). Please include copies of Sanborn maps and aerial photographs, as appropriate.
- j. Identification and listing of specific data gaps that require further investigation during subsequent phases of work. Proposed activities to investigate and fill data gaps identified.

TABLE 1
INITIAL SITE CONCEPTUAL MODEL

	OCM Code		Ī	
CSM Element	CSM Sub- Element	Description	Data Gap	How to Address
Geology and Hydrogeology	Regional	The site is in the northwest portion of the Livermore Valley, which consists of a structural trough within the Diablo Range and contains the Livermore Valley Groundwater Basin (referred to as "the Basin") (DWR, 2006). Several faults traverse the Basin, which act as barriers to groundwater flow, as evidenced by large differences in water levels between the upgradient and downgradient sides of these faults (DWR, 2006). The Basin is divided into 12 groundwater basins, which are defined by faults and non-water-bearing geologic units (DWR, 1974). The hydrogeology of the Basin consists of a thick sequence of fresh-water-bearing continental deposits from alluvial fans, outwash plains, and lacustrine environments to up to approximately 5,000 feet bgs (DWR, 2006). Three defined fresh-water bearing geologic units exist within the Basin: Holocene Valley Fill (up to approximately 400 feet bgs in the central portion of the Basin), the Plio-Pleistocene Livermore Formation (generally between approximately 400 and 4,000 feet bgs in the central portion of the Basin), and the		NA NA
		Pliocene Tassajara Formation (generally between approximately 250 and 5,000 or more feet bgs) (DWR, 1974). The Valley Fill units in the western portion of the Basin are capped by up to 40 feet of clay (DWR, 2006).		
	Site	Geology: Borings advanced at the site indicate that subsurface materials consist primarily of finer-grained deposits (clay, sandy clay, silt and sandy silt) with interbedded sand lenses to 20 feet below ground surface (bgs), the approximate depth to which these borings were advanced. The documented lithology for one onsite boring that was logged to approximately 45 feet bgs indicates that beyond approximately 20 feet bgs, fine-grained soils are present to approximately 45 feet bgs. A cone penetrometer technology test indicated the presence of sandier lenses from approximately 45 to 58 feet bgs and even coarser materials (interbedded with finer-grained materials) from approximately 58 feet to 75 feet bgs, the total depth drilled. The lithology documented at the site is similar to that reported at other nearby sites, specifically the Montgomery Ward site (7575 Dublin Boulevard), the Quest laboratory site (6511 Golden Gate Drive), the Shell-branded Service Station site (11989 Dublin Boulevard), and the Chevron site (7007 San Ramon Road).	As noted, most borings at the site have been advanced to approximately 20 feet bgs, and one boring has been advanced and logged to 45 feet bgs; CPT data was collected to 75 feet bgs at one location. Lithologic data will be obtained from additional borings that will be advanced on site to further the understanding of the subsurface, especially with respect to deeper lithology.	Two direct push borings and four multi-port wells will be advanced to depth (up to approximately 75 feet bgs) and soil lithology will be logged. See items 4 and 5 on Table 2.
		Hydrogeology: Shallow groundwater has been encountered at depths of approximately 9 to 15 feet bgs. The hydraulic gradient and groundwater flow direction have not been specifically evaluated at the site.	The on-site shallow groundwater horizontal gradient has not been confirmed. Additionally, it is not known if there may be a vertical component to the hydraulic gradient.	Shallow and deeper groundwater monitoring wells will be installed to provide information on lateral and vertical gradients. See Items 2 and 5 on Table 2.
Surface Water Bodies		The closest surface water bodies are culverted creeks. Martin Canyon Creek flows from a gully west of the site, enters a culvert north of the site, and then bends to the south, passing approximately 1,000 feet east of the site before flowing into the Alamo Canal. Dublin Creek flows from a gully west of the site, enters a culvert approximately 750 feet south of the site, and then joins Martin Canyon Creek approximately 750 feet southeast of the site.		NA
Nearby Wells		The State Water Resources Control Board's GeoTracker GAMA website includes information regarding the approximate locations of water supply wells in California. In the vicinity of the site, the closest water supply wells presented on this website are depicted approximately 2 miles southeast of the site; the locations shown are approximate (within 1 mile of actual location for California Department of Public Health supply wells and 0.5 mile for other supply wells). No water-producing wells were identified within 1/4 mile of the site in the well survey conducted for the Quest Laboratory site (6511 Golden Gate Drive; documented in 2009); information documented in a 2005 report for the Chevron site at 7007 San Ramon Road indicates that a water-producing well may exist within 1/2 mile of the site.	A formal well survey is needed to identify water-producing, monitoring, cathodic protection, and dewatering wells.	Obtain data regarding nearby, permitted wells from the California Department of Water Resources and Zone 7 Water Agency (Item 11 on Table 2).

TABLE 2

DATA GAPS AND PROPOSED INVESTIGATION

Item	Data Gap	Proposed Investigation	Rationale	Analysis
5	impacts to deeper groundwater.	monitoring wells (aka multi-port wells) to approximately 65 feet bgs in the northern parking lot with ports at three depths (monitoring well locations may be adjusted pending results of shallow grab groundwater samples; we will discuss any potential changes with ACEH before proceeding). Groundwater monitoring frequency to be determined. Soil samples will be collected only if there are field	there are no deeper groundwater impacts from upgradient. Two wells are proposed	Groundwater: VOCs by EPA Method 8260, dissolved oxygen, oxidation/reduction potential, temperature, pH, and specific conductance.
6	the downgradient direction (east).	8 feet bgs along the eastern property boundary. Based on the results of the sampling, two sets of nested probes will be converted to vapor monitoring wells to allow for evaluation of VOC concentration trends over time.	Available data indicate that PCE and TCE are present in soil vapor in the eastern portion of the northern parking lot. Samples are proposed on approximately 50-foot intervals along the eastern property boundary to provide a transect of concentrations through the vapor plume. The depths of 4 and 8 feet bgs are chosen to provide data closest to the source (i.e., groundwater) while avoiding saturated soil, and also provide shallower data to help evaluate potential attenuation within the soil column. Two sets of nested vapor probes will be converted into vapor monitoring wells (by installing well boxes at ground surface); the locations of the permanent wells will be chosen based on the results of samples from the temporary probes.	Soil vapor: VOCs by EPA Method TO-15.
7	Evaluate potential for off-site migration of impacted groundwater in the downgradient direction (east).			Groundwater: VOCs by EPA Method 8260, dissolved oxygen, oxidation/reduction potential, temperature, pH, and specific conductance.
8	north of the highest concentration area.	A for collection of soil and grab groundwater samples. Soil samples will be collected at two depths in the vadose zone. Soil samples will be collected based on field indications of impacts (PID readings, odor, staining) or, in the absence of field indications of impacts, at 5 and 10 feet bgs.	32, just north of Building A. The nearest available data to the north are approximately 75 feet away. One of the borings will be advanced approximately 20 feet north of NM-B-32 to provide data close to the highest concentration area. A second boring will be advanced approximately halfway between the first boring and former boring NM-B-33 to provide additional spatial data for contouring purposes. These borings will be	
9	Evaluate VOC concentrations in soil vapor in the south parcel of the site.	around boring SV-25, where PCE was detected in soil vapor at a low concentration.	PCE was detected in soil vapor sample SV-25 in the southern parcel, although was not detected in groundwater in that area. Three probes will be installed approximately 30 feet from of boring SV-25 to attempt to delineate the extent of impacts. A fourth probe is proposed west of the original sample, close to the property boundary and the location of mapped utility lines, which may be a potential conduit, to evaluate potential impacts from the west.	Soil vapor: VOCs by EPA Method TO-15.
10	Obtain additional information regarding subsurface structures and utilities to further evaluate migration pathways and sources.	methodologies will be used, as appropriate, to further evaluate the presence of unknown utilities and structures at the site.	Utilities have been identified at the site that include an on-site sewer lateral and drain line, and shallow water, electric, and gas lines. Given the current understanding of the distribution of PCE in groundwater at the site, it is possible that other subsurface utilities, and specifically sewer laterals, exist that may act as a source or migration pathway for distribution of VOCs in the subsurface.	NA

ATTACHMENT C

Path to Closure Project Schedule Requisite Elements

ATTACHMENT C

Path to Closure Project Schedule Requisite Elements

The State Water Resources Control Board passed Resolution No. 2012-0062 on November 6, 2012 which requires development of a "Path to Closure Plan" by December 31, 2013 that addresses the impediments to closure for the site. Please prepare a Path to Closure Schedule that has milestone dates tied to calendar quarters which will achieve site cleanup and case closure in a timely and efficient manner and minimizes the cost of corrective action. The complexity of the Path to Closure Schedule should be commensurate with the complexity of the site and tasks required to achieve case closure. ACEH will review the schedule to ensure appropriate key elements are included.

The Path to Closure Schedule should the following key environmental elements and milestones as appropriate:

- Preferential Pathway Study
- Soil, Groundwater, and Soil Vapor Investigations
- Initial, Updated, and Final/Validated SCMs
- Interim Remedial Actions
- Feasibility Study/Corrective Action Plan
- Pilot Tests
- Remedial Actions
- Soil Vapor and Groundwater Monitoring Well Installation and Monitoring
- Public Participation Program (Fact Sheet Preparation/Distribution/Public Comment Period, Community Meetings, etc.)
- Case Closure Tasks (Request for closure documents, ACEH Case Closure Summary Preparation and Review, Site Management Plan, Institutional Controls, Public Participation, Landowner Notification, Well Decommissioning, Waste Removal, and Reporting.)

Please include time for regulatory and RP in house review, permitting, off-site access agreements, and utility connections, etc.

For complex projects (i.e., redevelopment projects, etc.), please use a critical path methodology/tool to construct a schedule with sufficient detail to support a realistic and achievable Path to Closure Schedule. The schedule is to include at a minimum:

- Defined work breakdown structure including summary tasks required to accomplish the project objectives and required deliverables
- Summary task decomposition into smaller more manageable components that can be scheduled, monitored, and controlled
- Sequencing of activities to identify and document relationships among the project activities using logical relationships
- Identification of critical paths, linkages, predecessor and successor activities, leads and lags, and key milestones
- Identification of entity responsible for executing work
- Estimated activity durations (60-day ACEH review times are based on calendar days)