

## Detterman, Mark, Env. Health

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**From:** Detterman, Mark, Env. Health  
**Sent:** Thursday, October 17, 2013 12:37 PM  
**To:** 'Sami Malaeb'  
**Cc:** britpete@aol.com  
**Subject:** RE: RO2945; Chevron 9-8861; 2145 35th Ave, Oakland: Soil and Groundwater Investigation; Additional Soil Bores

Sami,

Thanks for the data submittal and information. The site does look fairly good, and I suspect the groundwater plume delineation is adequate under the LTCP. As we just discussed, from my analysis the site does not yet meet the Vapor Criteria or the Direct Contact Criteria of the LTCP to achieve closure. You intend to assess and address those potential issues, and make further recommendations for the site. You can also use this email to document ACEH concurrence to extend the submittal date to December 6<sup>th</sup>, as there was an additional mobilization and time was required to access the offsite parcel.

Best,

*Mark Detterman  
Senior Hazardous Materials Specialist, PG, CEG  
Alameda County Environmental Health  
1131 Harbor Bay Parkway  
Alameda, CA 94502  
Direct: 510.567.6876  
Fax: 510.337.9335  
Email: mark.detterman@acgov.org*

*PDF copies of case files can be downloaded at:*

*<http://www.acgov.org/aceh/lop/ust.htm>*

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**From:** Sami Malaeb [mailto:s.malaeb@comcast.net]  
**Sent:** Wednesday, October 16, 2013 11:14 AM  
**To:** Detterman, Mark, Env. Health  
**Cc:** britpete@aol.com  
**Subject:** RE: RO2945; Chevron 9-8861; 2145 35th Ave, Oakland: Soil and Groundwater Investigation; Additional Soil Bores

Hi Mark:

This email is to summarize the latest drilling and sampling activities at the site located at 2145 35<sup>th</sup> Avenue in Oakland. As planned, we drilled borings BH23, BH24, and BH25 on September 27, 2013. No petroleum hydrocarbons were detected in soil or groundwater. Attached please find an updated and corrected figure showing the locations of the borings and projected groundwater plume. Also, we attached updated tables for the offsite boring soil and groundwater results and the boring logs.

What is worth mentioning is that in drilling borings BH24 and BH25, soil color approximately between 12 to 16 feet below surface grade was greenish gray with no odor or detection of petroleum hydrocarbons. This would indicate plume bio-attenuation at these locations. At this point we conclude that enough borings were drilled to predict the extent of the plume and no further borings are needed. We plan to start preparing the offsite soil and groundwater investigation report to document the drilling in July and September of this year. In this report, we plan to update the conceptual site model, including the sensitive receptor and well survey and present the conclusions and recommendations.

Due to the needed time for offsite access, we request an extension to submit the soil and groundwater investigation report from October 25, 2013 to December 6, 2013. That is an extension of approximately 45 days.  
I will call you to discuss this email.

Thanks,

Regards,

EEC  
Sami Malaeb, PE, QSP/QSD  
Cell: (925) 858-9608

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**From:** Detterman, Mark, Env. Health [<mailto:Mark.Detterman@acgov.org>]  
**Sent:** Wednesday, September 25, 2013 2:15 PM  
**To:** 'Sami Malaeb'  
**Cc:** [britpete@aol.com](mailto:britpete@aol.com)  
**Subject:** RE: RO2945; Chevron 9-8861; 2145 35th Ave, Oakland: Soil and Groundwater Investigation; Additional Soil Bores

Thanks Sami. The figure looks good.

*Mark Detterman*  
*Senior Hazardous Materials Specialist, PG, CEG*  
*Alameda County Environmental Health*  
*1131 Harbor Bay Parkway*  
*Alameda, CA 94502*  
*Direct: 510.567.6876*  
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**From:** Sami Malaeb [<mailto:s.malaeb@comcast.net>]  
**Sent:** Wednesday, September 25, 2013 11:18 AM  
**To:** Detterman, Mark, Env. Health  
**Cc:** [britpete@aol.com](mailto:britpete@aol.com)  
**Subject:** RE: RO2945; Chevron 9-8861; 2145 35th Ave, Oakland: Soil and Groundwater Investigation; Additional Soil Bores

Hi Mark:

I was successful getting a permission to drill behind the neighboring Apartment building and on 35<sup>th</sup> Avenue. The drilling date is scheduled for this Friday, September 27, 2013. On Friday, we will complete three borings (BH23, BH24, and BH25). See the attached figure. I will discuss the analytical results for the soil and groundwater from these borings with you once I receive them.

Let me know if you have any questions.

Regards,

EEC  
Sami Malaeb, PE, QSP/QSD  
Cell: (925) 858-9608

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**From:** Sami Malaeb [<mailto:s.malaeb@comcast.net>]  
**Sent:** Tuesday, August 20, 2013 2:34 PM  
**To:** 'Detterman, Mark, Env. Health'  
**Cc:** 'britpete@aol.com'  
**Subject:** RE: RO2945; Chevron 9-8861; 2145 35th Ave, Oakland: Soil and Groundwater Investigation; Additional Soil Bores

Hi Mark:

Thanks for your email below. Just couple of items:

1. The Figure you attached to your directive was not the updated one. Please see the updated figure I provided to you, attached.
2. Please note that an offsite utility and receptor survey has been completed and documented in the report dated August 2012 and titled "PHASE II ENVIRONMENTAL INVESTIGATION REPORT AND SUPPLEMENTAL INVESTIGATION WORKPLAN". The utilities offsite are still the same. Therefore, such a survey is still valid.

Regards,

EEC  
Sami Malaeb, PE, QSP/QSD  
Cell: (925) 858-9608

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**From:** Detterman, Mark, Env. Health [<mailto:Mark.Detterman@acgov.org>]  
**Sent:** Tuesday, August 20, 2013 12:35 PM  
**To:** 'Sami Malaeb'; [britpete@aol.com](mailto:britpete@aol.com); [reinlib@aol.com](mailto:reinlib@aol.com); [LGRIFFIN@OAKLANDNET.COM](mailto:LGRIFFIN@OAKLANDNET.COM); 'mrodarte@waterboards.ca.gov'  
**Cc:** Roe, Dilan, Env. Health  
**Subject:** RO2945; Chevron 9-8861; 2145 35th Ave, Oakland: Soil and Groundwater Investigation; Additional Soil Bores

Sami,

Thanks for the packet of data from the most recent site investigation, including the revised aerial image of existing and proposed soil bore locations (attached). You have indicated that the aerial image provides the best depiction of soil bore locations due to the scale of the figure. As originally intended, after the submittal of the data packet it was anticipated that groundwater monitoring wells would be installed to provide downgradient delineation of the groundwater plume. While the recently installed soil bores detected potentially significant concentrations of TPH immediately offsite (up to 7,100 ug/l TPHg, 5,000 ug/l TPHss, 2,100 ug/l TPHd, and 8 ug/l benzene), they do not appear to have detected the downgradient extent of the groundwater contamination. Because the site is located in a stream valley and the subsurface is very granular, the possibility of natural preferential pathways (paleochannels such as buried stream segments) may be providing a natural conduit away from the site. ACEH is in agreement that it appears more appropriate to redirect site activities and install up to 5 additional soil bores in order to understand natural pathways in the subsurface beneath the site and vicinity. As such two limited soil bore transects have been proposed (infill of a line between BH18 and BH19, and a transect perpendicular to 35<sup>th</sup> Ave - BH19 to BH25). As discussed, due to the potential for these natural conduits, ACEH prefers soil bore transects with a spacing of no more than 20 feet in distance. ACEH understands that the bores in these two transects will be repositioned slightly in order to meet this requested spacing goal. It is understood that bores BH26 and BH27 may be repositioned to meet the spacing goal, or held in reserve in case indications of contamination are encountered in the other transects. Please note that the installation of groundwater monitoring wells has not been

eliminated; it may still be appropriate to install wells downgradient of the site presuming an offsite soil or groundwater plume is identified.

While not previously requested it appears that an offsite utility conduit survey will be useful to understanding the potential downgradient extent of groundwater contamination at the site and vicinity. It is understood that approved costs may not include this scope or work. Because the information will likely prove useful, we can discuss when the work is best incorporated into the work flow. Groundwater appears to be located at depths that are coincident with typical utility installation depths and may also provide a manmade preferential pathway away from the site that may account for the apparent lack of an offsite groundwater plume. Thus the utilities should be accounted for in order to understand contaminant flow pathways. As a consequence, ACEH requests that a utility survey (location and depth) of utilities in the vicinity of the site be illustrated in future site plans. Please see Attachment A, Preferential Pathway and Sensitive Receptor Survey, but please be aware that a sensitive receptor survey is currently not requested as an offsite plume has not been documented at this time.

I've also set a delivery date for the report; however, should additional work, such as the installation of groundwater wells be needed, the date can and should be revised to allow sufficient time for the additional actions. Should that be required, please let me know.

### **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:

- **October 25, 2013**– Soil and Groundwater Investigation Report; with Revised Cross Sections; File to be named: RO2945\_SWI\_R\_yyyy-mm-dd

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>. If your email address does not appear on the cover page of this notification, ACEH is requesting you provide your email address so that we can correspond with you quickly and efficiently regarding your case.

If you have any questions, please call me at (510) 567-6876 or send me an electronic mail message at [mark.detterman@acgov.org](mailto:mark.detterman@acgov.org).

*Mark Detterman  
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Alameda County Environmental Health  
1131 Harbor Bay Parkway  
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