

Main Office

Meeting Notes

To: Dilan Roe, Alameda County Environmental Health
Tamami French, Alameda County Environmental Health

From: Scott Stromberg, Arctos Environmental

Date: 11 September 2017

**Subject: 7 September 2017 ACEH Meeting Notes
1619 1st Street, Livermore, California
ACEH Case RO0000434**

On 7 September 2017, Arctos Environmental (Arctos), Tesoro Environmental Resources Company (Tesoro), and EarthCon Consultants Inc. (EarthCon) met with Alameda County Environmental Health (ACEH) to discuss the Tesoro Livermore site. The meeting lasted approximately 2 hours from 2 PM to 4 PM and was attended by the following personnel:

- Kyle Waldron (Tesoro)
- Mike Purchase (Arctos)
- Scott Stromberg (Arctos)
- Emily Chow (Arctos)
- Joe Ricker (EarthCon)
- Dilan Roe (ACEH).
- Tamami French (ACEH).

The meeting objectives included (1) presenting 2017 data gap investigation results, (2) reviewing requirements for site closure, and (3) presenting results of plume stability analysis. The following subjects or requests were discussed during the meeting:

1. Arctos will submit a report summarizing data gap investigation activities.
2. Based on results of grab groundwater samples collected in the downgradient area of the plume south of Safeway, ACEH requested installation of one groundwater monitoring well north of Safeway to delineate the downgradient extent of the plume. Arctos will submit a work plan for well installation. After the downgradient well is installed and sampled, Arctos will submit results and ACEH will determine if the site meets closure criteria.

3. The results of investigation of potential submerged LNAPL near well DW-8 downgradient of the former underground storage tanks indicated that remaining residual LNAPL is neither mobile nor recoverable. This was based on UVOST results, saturation and mobility testing of soil samples, and absence of measurable LNAPL in well DW-8 when groundwater levels were below the top of the well screen. Residual LNAPL does not pose a risk as a continued source to groundwater impacts. ACEH agreed no further assessment of LNAPL is warranted.
4. The plume stability analysis demonstrated that the average contaminant concentration, estimated contaminant mass, and lateral extent of the contaminant plume is decreasing over time. Arctos and EarthCon will summarize the plume stability analysis results and submit the presentation to ACEH using an electronic file transfer network.
5. Remediation on site is no longer warranted because the plume is decreasing and reductions appear to have reached asymptotic levels. Arctos will submit a request to shut down the onsite oxygen injection system in an email to ACEH.
6. ACEH noted that electronic data files are missing from Geotracker for recent groundwater monitoring events. Arctos will upload missing data to Geotracker.

As discussed during the meeting, the upcoming deliverables and action items include the following:

1. Arctos/Tesoro will submit a report summarizing data gap investigation activities. The report will include a summary of the plume stability analysis. Arctos/Tesoro/EarthCon will submit the plume stability analysis presentation using a file transfer network.
2. Arctos will send an email requesting shutdown of the oxygen injection system and ACEH will respond to the request via email. Arctos will include a request for continued non-operation of the soil vapor extraction system. The systems will be left in place on site until final decommissioning.
3. ACEH will request installation of one downgradient groundwater monitoring well via email and Arctos/Tesoro will submit a work plan for well installation.
4. Arctos will upload missing Geotracker data.