

Detterman, Karel, Env. Health

From: Roe, Dilan, Env. Health
Sent: Monday, July 16, 2018 10:17 AM
To: Bill and Sandy Mouat
Cc: Peter McIntyre; Jacqueline Day; Abrams, Elliott; shannalimccord@gmail.com; Rory Mouat; Detterman, Karel, Env. Health
Subject: RE: Response re Hydrogen Peroxide

Good Morning Everyone:

Alameda County Department of Environmental Health (ACDEH) requests that all investigation and remediation activities at the site be discontinued unless being conducted under an ACDEH approved Work Plan or Corrective Action Plan. At this juncture, ACDEH requests that the information that has been provided by Bill in the email correspondence below be incorporated into a Site Conceptual Model and submitted to ACDEH via upload to Geotracker by August 25, 2018. The SCM must provide a full accounting of work that has been performed to date and an evaluation of the current site conditions and must document that all unauthorized remediation equipment has been removed from the site.

Subsequent to submittal of the SCM I would like to reconvene at a stakeholders meeting in September to discuss the plan of action going forward. Please note that all work done at this site must be performed by appropriately licensed geologists and or civil engineers in accordance with State law and ACDEH directives.

Dilan Roe, PE, C73703

Chief – Land Water Division

Alameda County Department of Environmental Health

1131 Harbor Bay Parkway

Alameda, CA

510.567.6767; Ext. 36767

QIC: 30440

dilan.roe@acgov.org

From: Bill and Sandy Mouat [mailto:bandsm1@comcast.net]
Sent: Sunday, July 15, 2018 1:11 PM
To: Roe, Dilan, Env. Health <Dilan.Roe@acgov.org>
Cc: Bill and Sandy Mouat <bandsm1@comcast.net>; Peter McIntyre <pmcintyre@aeiconsultants.com>; Jacqueline Day <jday@aeiconsultants.com>; Abrams, Elliott <elliott@eabramslaw.com>; shannalimccord@gmail.com; Rory Mouat <rory.mouat@gmail.com>
Subject: Response re Hydrogen Peroxide

Hi Dilan,

Very sorry for the late response. I have been out of town for the past 3 weeks.

At the very beginning of the project, after we had the excavation and 8' PVC piping installed in the pit, we had a strong odor inside and outside of the warehouse. AEI was in the process of writing up a

work plan after excavation, drilling work, and testing had been completed. We were waiting for the county to give approval for the next work plan phase.

The first tests came back and the excavation pit was pretty hot with contaminants, and very little or no oxygen.

I was working with Robert Flores who was the supervisor of the project with AEI. He explained that micro organisms in the soil and water needed oxygen to grow and live which means that with no oxygen below, the contaminants would just keep flowing in the water table and contaminating more soil and water, and possibly adjoining properties. I asked him for suggestions about how to lessen the odor and improve the oxygen levels below to slow or stop the contamination from traveling while we were working on the next phase work plan or waiting for the next testing.

Mr. Flores explained he had injected hydrogen peroxide on a couple previous sites he had used and applied the hydrogen peroxide in the water table and that it would raise the oxygen levels so that the micro organisms would multiply and eat the contaminants. Rather than wait for the UST Fund to give approval, a very long process that would have allowed the contamination to spread while we waited, I asked him if I could aerate the water by recycling it into the water table in the pit and add small amounts of hydrogen peroxide.

He talked to Stephen Plunkett from the county who was overseeing our project and explained to him what we were going to do as far as aeration in the underground water, while we waited for the next work plan to be approved.

During the following months, Stephen Plunkett would drop by and check to see how things were going. We showed him how we were doing it and he said it was fine, while we waited.

Over the first 2-3 years after the pit was installed I figured if the pit water was oxygenated the microbes would travel in the water table and eat the contamination. Bob said the way I was doing it was a good idea and what I was doing was working very well. He said it appeared the plume was slowly getting smaller.

FYI: I stopped all treatment at least 30-45 days before any testing so we could get the best readings on contamination and if the oxygen levels were getting better. I have not done any treatment since the pit was capped off.

The beneficiaries want this property sold as soon as possible. I have been talking to Peter in regard to some other type of treatment to help get closure faster, but after our meeting on the 22nd, I see all of this just takes time.

As of today, oxygen readings are very low and I am requesting to continue using a aeration machine to help supply more oxygen in the water supply, without hydrogen peroxide. As it stands today with the oxygen levels low, the contamination will continue to spread and while we have been waiting for the county to give us direction, nothing underground has been done. Most likely, more contamination has spread to the adjoining properties because of the wait for approval of a work plan. Neither AEI nor I have been able to keep the contamination from spreading further, as we have been waiting for the county direction.

I am requesting that we are at least allowed to use the aeration machine to aerate the subterranean water supply from the pit area. Please advise.

Thank you,

Bill

Detterman, Karel, Env. Health

From: Roe, Dilan, Env. Health
Sent: Tuesday, June 26, 2018 7:31 AM
To: Jeremy Smith; Trent Weise
Cc: Jacqueline Day; Bill and Sandy Mouat; Detterman, Karel, Env. Health
Subject: RE: RO2936 / Zimmerman Property 3442 Adeline Street, Oakland, CA / Meeting Summary, June 22, 2018

Good Morning Everyone:

I have received some information that peroxide has been poured down some of the monitoring wells at the site. This may explain some of the discrepancies in the groundwater monitoring well data that I discussed in the meeting. Please provide clarification on this matter and if this in fact has happened, Alameda County Department of Environmental Health (ACDEH) requests a report documenting the incident(s) and documenting that the wells are secured with a lock.

Please note, no remedial actions can be taken at this site without approval from Alameda County Department of Environmental Health.

Dilan Roe, PE, C73703

Chief – Land Water Division

Alameda County Department of Environmental Health

1131 Harbor Bay Parkway

Alameda, CA

510.567.6767; Ext. 36767

QIC: 30440

dilan.roe@acgov.org
