

Detterman, Mark, Env. Health

From: Detterman, Mark, Env. Health
Sent: Friday, September 20, 2013 4:40 PM
To: 'Yusufzai, Abdul@Waterboards'
Cc: Roe, Dilan, Env. Health
Subject: RE: Claim # 14228; Case 3 RO0000208

Hi Abdul,

In our most recent directive letter dated August 22, 2013 ACEH approved a work plan to collect additional shallow soil data to fill remaining data gaps under the LTCP (vapor intrusion and direct contact).

The work plan proposes to install four soil bores to collect soil samples in the 0 to 5 and the 5 to 10 foot depth intervals in close proximity to the source area in order to determine if the site can meet the Vapor Intrusion and Direct Contact Media-Specific Criteria of the LTCP. To date no soil samples have been collected in the 0 to 5 foot depth interval, one soil sample has been collected in the 5 to 10 foot interval, and 7 soil samples have been collected at 10 to 10.5 feet below surface grade (bgs). The single soil sample collected in the 5 to 10 foot depth range is located somewhat distant from the source (approximately 15 feet upgradient of the release), and thus is not a good data point on which to evaluate the site under the Vapor Intrusion or Direct Contact Media-Specific Criteria of the LTCP. Three of the seven soil samples collected slightly below the policy prescribed 10 foot interval contain hydrocarbon concentrations up to 3,600 mg/kg TPH as gasoline and 3.5 mg/kg benzene. These samples indicate that the site does not meet the "low concentration groundwater scenarios" of the Soil Vapor Intrusion to Indoor Air Media-Specific Criteria of the LTCP.

The work plan additionally proposed to install three vapor points to collect additional soil vapor data at the site in an alternative effort to determine if the site could meet the Vapor Intrusion Criteria of the LTCP. At present the site fails this criterion due to the detection of up to 880 $\mu\text{g}/\text{m}^3$ benzene which exceeds the less than 280 $\mu\text{g}/\text{m}^3$ value allowed at a commercial site without a demonstrated bioattenuation zone (with analytical data in the 0 to 5 foot depth interval), but would pass a site with a bioattenuation zone (with TPH analytical data within the 0 to 5 foot depth interval).

The current due date for the submittal of the site investigation report is October 18, 2013. ACEH is hopeful that upon review of this data the site can be closed.

Should you have questions, please let me know.

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>

From: Yusufzai, Abdul@Waterboards [<mailto:Abdul.Yusufzai@waterboards.ca.gov>]
Sent: Wednesday, September 18, 2013 10:31 AM
To: Detterman, Mark, Env. Health
Subject: Claim # 14228; Case 3 RO0000208

Hi Mark: What is the current review status of subject case. Regards

Abdul Karim Yusufzai

Engineering Geologist
Technical Review Unit
(916) 341-5742
(916) 341-5806
Ayusufzai@waterboards.ca.gov