

From: Roe, Dilan, Env. Health
To: "[Phillips, Hollis](#)"
Subject: RE: questions on RO66 and RO452
Date: Tuesday, February 05, 2013 12:56:00 PM

Hi Hollis:

I have been tied up all and have not yet had a chance to review the fact sheet and soil vapor sampling for RO066. I will try to get you a response by end of this week. Sorry for the delay.

Dilan Roe, P.E.

Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
510.567.6767; Ext. 36767
QIC: 30440
dilan.roe@acgov.org

PDF copies of case files can be reviewed/downloaded at:

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

From: Roe, Dilan, Env. Health
Sent: Wednesday, January 30, 2013 4:45 PM
To: 'Phillips, Hollis'
Subject: RE: questions on RO66 and RO452

Hi Hollis:

I will clear my schedule for tomorrow and look over the fact sheet for RO66 and will provide my comments and give you direction regarding the soil vapor sampling by Friday. I will also send you the mailing list.

The case closure summary for RO452 is still in the review queue. We are hoping to have review finished by the end of February.

Dilan Roe, P.E.

Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
510.567.6767; Ext. 36767
QIC: 30440
dilan.roe@acgov.org

PDF copies of case files can be reviewed/downloaded at:

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

From: Phillips, Hollis [<mailto:Hollis.Phillips@arcadis-us.com>]
Sent: Wednesday, January 30, 2013 10:29 AM
To: Roe, Dilan, Env. Health
Subject: questions on RO66 and RO452

Dilan:

RO066:

We'd like to get in the field and implement the CAP (submitted in October 2011) however ACEH has not approved the 30 day public notification (submitted to Paresh in March 2012 and attached herein). Nor have I gotten any clarification concerning the request for soil vapor monitoring in the December 6, 2011 Directive. The Directive requests that we collect soil vapor samples because ISCO may generate vapors. However it appears aerobic bioremediation may have been confused with anaerobic bioremediation and in situ chemical oxidation. The purpose of using calcium peroxide is to provide a source of oxygen for months after the event. Rate kinetics will be limited by the solubility of the material and in turn gas generation should also be minimal (we have not observed any significant gas generation at other sites where we are injecting calcium peroxide). Based on the proposed technology, I don't think soil vapor sampling is necessary to monitor the remediation (I recognize it is a component of the LTC policy and will be necessary at some point, just not now). Can you let me know if the Fact Sheet is ok (and who to send it to, historically Paresh gave us a list of addressees) and if we can collect soil vapor samples at a later date (i.e., not to monitor gas generation during the remedy).

RO0452:

Where are you with the 3rd party review of the Closure Report submitted on 2/24/11?

Regards,
Hollis

Hollis E. Phillips, PG | Principal Geologist | hollis.phillips@arcadis-us.com
ARCADIS U.S., Inc. | 100 Montgomery , Suite 300 | San Francisco, CA, 94104
T415.432.6903 | M. 510.219.7764 | F.415.374.2745
www.arcadis-us.com

Professional Geologist/PG-CA #6887

ARCADIS, Imagine the result

Please consider the environment before printing this email.

NOTICE: This e-mail and any files transmitted with it are the property of ARCADIS U.S., Inc. and its affiliates. All rights, including without limitation copyright, are reserved. The proprietary information contained in this e-mail message, and any files transmitted with it, is intended for the use of the recipient(s) named above. If the reader of this e-mail is not the intended recipient, you are hereby

notified that you have received this e-mail in error and that any review, distribution or copying of this e-mail or any files transmitted with it is strictly prohibited. If you have received this e-mail in error, please notify the sender immediately and delete the original message and any files transmitted. The unauthorized use of this e-mail or any files transmitted with it is prohibited and disclaimed by ARCADIS U.S., Inc. and its affiliates. Nothing herein is intended to constitute the offering or performance of services where otherwise restricted by law.