## Detterman, Mark, Env. Health

**From:** Detterman, Mark, Env. Health
**Sent:** Thursday, December 09, 2010 10:03 AM
**To:** 'Lia Holden'; dehloptoxic, Env. Health; Moise, Ted (TRC Solutions Inc)
**Cc:** gsears@warehamproperties.com; Matt Hall; Drogos, Donna, Env. Health; 'roya.kamblin@aecom.com'; 'Grover Buhr'
**Subject:** RE: ACEH Correspondence for RO67

Hi Lia,

Thanks for your email. What you have proposed is a reasonable way to manage the upper water-bearing intervals at the site; in particular in horizons that are clay rich. Please use this email as confirmation of ACEH acceptance of this approach.
Best,

*Mark Detterman*
*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:** Lia Holden [mailto:LHolden@deltaenv.com]
**Sent:** Monday, December 06, 2010 2:47 PM
**To:** dehloptoxic, Env. Health; Moise, Ted (TRC Solutions Inc)
**Cc:** gsears@warehamproperties.com; Matt Hall; Drogos, Donna, Env. Health; Detterman, Mark, Env. Health; Roya.kamblin@aecom.com
**Subject:** RE: ACEH Correspondence for RO67

Mr. Detterman,
Per our telephone conversation and your directive letter dated December 2, 2010, Delta will make every effort to minimize well-screen length in each water bearing zone. During the 2009 CPT investigation conducted by Delta, groundwater was noted and sampled between 6 and 8.5 feet below grade in CPT-1; however, in a similar permeable shallow layer (encountered in CPT-5) water was encountered at 8 feet below grade and sampled at the 8 to 10.5 feet interval. Within the shallow permeable sediments found in CPT 4, groundwater was not encountered between depths of 5 and 12 feet in sufficient volume to collect a groundwater sample.

With the above information, and as we discussed on the phone today, Delta proposes to set the well screen in the A Zone at an interval of 5 to 12 feet below grade--a 7-foot screen interval. This will aid in the shallow table intersecting the screened interval (without submerging the screen) and will help prevent setting a dry well.

For the B-Zone wells, we anticipate meeting the 5-foot screen length requested by ACEH. The screens in these wells are anticipated to extend from from 18 to 23 feet below grade, or 20 to 25 feet below grade, depending on the exact depth of the permeable layer defining this zone. As this is zone appears to be confined, bound by continuous low-permeability sediment layers, submerged screens are not a concern.

The precise screen intervals in both the A- and B- Zones will be contingent upon field observations (lithology & depth to first water). The borings will be continuously logged to ensure that the permeable layer is encountered where anticipated and that we are able to more clearly define the depth to first water during boring advancement.

Please let confirm that this email will suffice for that which you requested in your directive letter.

Thank you again for your time.

Lia

**Lia Holden, PG | Geologist - Project Manager | North American Operations**
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**SUSTAINABLE STRATEGIES FOR GLOBAL LEADERS**



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**From:** dehloptoxic, Env. Health [mailto:deh.loptoxic@acgov.org]
**Sent:** Thursday, December 02, 2010 3:38 PM
**To:** 'bill.borgh@conocophillips.com'
**Cc:** Lia Holden; 'gsears@warehamproperties.com'; 'Matt Hall'; Drogos, Donna, Env. Health; Detterman, Mark, Env. Health
**Subject:** ACEH Correspondence for RO67

Dear Interested Parties,

Attached is Alameda County Environmental Health's (ACEH) correspondence for your case, RO0000067.

Please add our e-mail address to your address book to prevent future e-mails from being filtered as spam.

Sincerely,

ACEH