

From: Wickham, Jerry, Env. Health
Sent: Thursday, July 10, 2008 5:45 PM
To: 'denis.l.brown@shell.com'
Subject: RE: 461 8th St, Oakland - Proposed borings/wells, per discussion today
Denis,

I just listened to your voice message. Good message, the points were well explained. I have no objection to proceeding with data collection from the vertical delineation prior to submitting the chemox proposal since this should help achieve improved monitoring, safety, and performance. You can propose a chemox work plan schedule that will allow incorporation of the additional data.

With regard to volume of oxidants and sequencing of injections, I am open to alternate proposals. The comments in my last June 11 letter were intended to increase the monitoring and allow time to react to the monitoring data over the course of the injection cycles.

Give me a call if you would like to discuss further.

Regards,

Jerry Wickham
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From: denis.l.brown@shell.com [mailto:denis.l.brown@shell.com]
Sent: Thursday, July 10, 2008 5:12 PM
To: Wickham, Jerry, Env. Health
Subject: FW: 461 8th St, Oakland - Proposed borings/wells, per discussion today
Importance: High

Jerry,

Here is follow-up e-mail to my voice message.

This is preliminary and I am just sending this to you to show you why we are wrestling with data, and that the test proposal that is in the works right now is inadequate, or in flux, and all of us are agreeing that more info. would be better and that once this is obtained, we could really propose both the test and follow-up injections.

So, we are looking to see if you could extend test plan proposal until this data is gained, or we submit something for record with written provision that up obtaining this boring data and well installations, we would augment and change per new info.

Ana will make the WP deadline, and again, I am just sending to you to reinforce our discussion points and that we are trying to sure this is done right, thorough, and safe.

Thanks

Denis L. Brown
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-----Original Message-----

From: Friel, Ana [mailto:afriel@croworld.com]
Sent: Thursday, July 10, 2008 4:59 PM
To: Brown, Denis L SOPUS-DRN/4728; Bruce, Cristin L GSUSI-GSGH/5
Cc: Weston, Alan; Dore, Sophia; Friel, Ana
Subject: 461 8th St, Oakland - Proposed borings/wells, per discussion today
Importance: High

Hello all – thanks again for making time to discuss this project today. It was very productive.

Attached is a survey map showing property boundaries, current wells and injection points, and approx edge of excavated area, as well as sidewalk on Broadway and Bldg with basement to the south. I've sketch proposed boring and well locations as discussed, and propose the following depths, construction, etc for them, for your review and approval. Please send any comments or changes needed ASAP, as this work plan is **due next Tuesday**.

Vertical delineation: To conduct additional vertical delineation at the site, borings B-28, B-29, S-20, S-21, and S-22 will extend to 50 fbg. We will collect soil samples at 5 ft intervals, and attempt a discreet groundwater sample from approximately 45 fbg at these locations.

Shallow wells: For additional monitoring points for injection activities near the excavation, between excavation and Broadway, and both up and downgradient, wells S-14R, S-19, S-20, and S-23 will be installed with screen intervals similar to other onsite wells (20-35 fbg).

Well Pairs: For monitoring adjacent to the former excavation and to assess vertical vs lateral dispersion of solution, wells S-20A, S-20B, S-21A, and S-21B will be installed within approximately 3-5 feet of excavation edge. The wells with A-zone screens will be screened from 20-30 fbg, and the B-zone screens will be 30-35 fbg (if field observation suggest contaminants in soil deeper than 35 fbg, wells may extend to 40 fbg).

The upgradient well, S-23, is positioned to evaluate dispersion from injection versus groundwater flow (ie: compare S-23 with S-21A).

Please let me know your comments as soon as possible.

Ana Friel, PG

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