From: Wetmore, Cynthia
To: Warren, Scott@DTSC
Cc: Barton, Dana; Mayer, Kevin; MARTINEZ, YARISSA
Subject: BAtch Test Results
Date: Thursday, December 11, 2014 4:15:21 PM

Hi Scott,
Here are the results from the batch test. As I mentioned in the call, these were from running the system for about 25 minutes which may have misleading results. For example, the ND for pCBSA in the effluent is not what we expect in the long term. Before running the system for 25 minutes (which was the maximum storage that I have), we had run clean water through the system. This means that the water exiting the GAC is likely the clean water that remained in the GAC after the clean water test. Also, the influent concentrations are higher than anticipated, probably because the closer wells with higher concentrations reached the treatment plant faster than the further, and less contaminated, dissolved plume wells.

However, even with the limited testing period, the results are positive. And we have confidence now to run the system a little longer without concerns of exceedences.

I would like to talk with Dana about if we can release this to the community since is rush data w/o validation. I'll let you know.

Groundwater Sample Results

Influent

- pCBSA = 51,000 ug/L
- MCB = 6,600 ug/L
- CF = 1,400 ug/L

Post HiPOx

- pCBSA = 30,000 ug/L
- MCB = 2,400 ug/L
- CF = 1,200 ug/L

Post Air Stripper

- pCBSA = 23,000 ug/L
- MCB = 53 ug/L
- CF = 23 ug/L

Post LGAC

- pCBSA = <5 ug/L
- MCB = <0.5 ug/L
- CF = <0.5 ug/L

Air Sample Results

Discharge Stack

- MCB = <0.0005 ppmv
- CF = <0.0005 ppmv
- Benzene = 0.0002 J ppmv

From: Warren, Scott@DTSC <Scott.Warren@dtsc.ca.gov>
Sent: Wednesday, December 10, 2014 8:53 AM
To: Wetmore, Cynthia
Subject: RE: I think Scott's email is incorrect

Cynthia,

I'm a geologist with DTSC and I work on the Montrose and Del Amo sites as well as the larger LA Basin Groundwater Restoration project. I was on the USEPA/CalEPA call yesterday morning regarding the Dual Site Groundwater cleanup system and the reinjection of pCBSA and I will participate in the Convening with Cynthia Babich next Monday 12/15/2014.

During the 12/15/2014 convening, I have been tasked with discussing the lateral extent of contaminants in groundwater. I was also asked to briefly discuss the treatment system (I'm not an engineer, but will do my best to discuss generalities).

I have a few questions that I would really appreciate your help with before the meeting next Monday.

1. USEPA provided a graph showing the expected concentration of pCBSA on startup and after 2 yrs, 5, etc. Can I get a copy of the graph and slides?
2. I think it was you that provided some cost numbers for pCBSA HiPOX operation and a timeline for when HiPOX will be used and when it will be shut down. Can I get the capital cost and O&M cost estimates related to the estimated period of HiPOX operation. Added cost estimates for longer HiPOX operation etc. The cost estimates were very good for Executive staff to know and can help in our general discussion on Monday.
3. Water has been extracted and is being held in tanks. Has any testing been performed on the water in the holding tanks? If so, (and it is has value), can we get and share the data at the 12/15/2014 meeting.

Thank you,

Scott (714) 484-5462

(I’m in meetings all day today but will be available tomorrow if you would like to discuss anything)