

**U.S. Army Corps of Engineers – New England District
Cold Regions Research and Engineering Laboratory (CRREL)
Restoration Advisory Board**

Minutes of Meeting #10

**Wednesday, June 3, 2015
Richmond Middle School (RMS) Library**

Attending: Darrell Moore, USACE-NAE, Co-Chair
Kristine McDermott, Citizen Volunteer
Katherine Connolly, Town of Hanover
Roelof Versteeg, Citizen Volunteer
Robin Mongeon, NHDES
Keith Hodenot, USACE
Scott Calkin, Amec Foster Wheeler
Jeff Pickett Amec Foster Wheeler
Bryan Ambrust, ERDC-CRREL
David Van Wie, Amec Foster Wheeler

Agenda:

1. Welcome and introductions
2. Adopt minutes of Meeting #9
3. Remedial Investigation (RI) Outline/Table of Contents
4. Soil Vapor Extraction system update
5. Other technical updates
6. Next meeting: Agenda, Date and Location
7. Comments & Questions from the public
8. Adjourn

Discussions:

1. Chair, Mr. Darrell Moore called the meeting to order.
2. Mr. Moore asked for comments on April 8, 2015 RAB minutes.
No comments were offered, and the RAB members voted to accept the last meeting minutes unanimously.
3. Remedial Investigation (RI) Report Outline/Table of Contents

Scott Calkin of Amec Foster Wheeler handed out a provisional draft outline of the RI report, noting that his team has been drafting section for review by USACE. He noted that the RI report will reference other previous documents, most of which are in the Administrative Record.

Darrell Moore said he will work to get the Administrative Record to all RAB members on a thumb drive.

The team expects to review the draft RI report with the RAB in October of this year and provide 5 or 6 weeks to comment. The Feasibility Study will begin in August and go through the year.

Mr. Calkin presented some sample data tables to compare data to regulatory screening criteria, including a NHDES and USEPA comparison, highlighting which compounds exceed screening criteria. He noted that the USACE must follow the US EPA criteria, not the NHDES, but both will be shown.

Interpretive figures will show spatial values and findings. Indoor air data summaries will be shown in a figure with the floor plan and samples since 2010.

Ms. Connolly asked about ecological risk assessment. Mr. Calkin replied that the risk assessment has shown that with no bioaccumulation of compounds of concern, the risk is very low, with no habitat or species of concern. Human exposure to vapors is the major risk.

4. Soil Vapor Extraction system update

Mr. Calkin explained the efforts to reconfigure the SVE system after the initial run. There are 3 extraction areas in the former tank/leak area, parking lot and near the Rivercrest boundary.

He described the general system, including the condenser to convert vapor to liquid, and the tank to separate water and TCE with carbon filters. Air discharges from the system monitored.

The expected schedule is to start up the new SVE pilot system in the end of June, run for 3 months, and shut down to test for rebound for one month.

Mr. Moore noted that there was some confusion in prior reporting regarding the term "breakthrough" of the carbon, being interpreted as a broken pipe or system failure. This is an example of technical jargon being misunderstood. Breakthrough simply referred to saturation of the carbon. The team has discussed the need to be careful of terminology that can be misinterpreted.

5. Other Recent Work

Mr. Moore summarized additional on-site monitoring in the Main Lab. He discussed issues around the elevator replacement which had a 50 foot subsurface shaft. Mr. Moore also stated that the -73 degree line is now connected to the subsurface depressurization system (SSD).

Richmond Middle School sampling on April 13 showed that indoor air concentrations were in keeping with previous sampling events. This round of sampling was completed using "bottle vacs" that were prepped in Portland, ME. The team now has dedicated sampling equipment for RMS work. Next sampling is in July or August.

Upcoming work will include a "synoptic" round of soil vapor sampling. This will require both Hapsites to do this. One is out for repair at this time.

Additional work with vapor intrusion (VI) mitigation in the Main Lab and the roof drains is expected. Continued work to investigate sources and pathways of VI will continue.

6. **Next Meeting Date:** **September 16, 2015 at 4pm**, tentative pending confirmation from the SAU

October 28 will be a presentation and workshop on the RI Draft Report. USACE will reach out to the school board, especially new members, to try to bring them up to speed. Also additional information to the press will be developed.

Next agenda/action Items:

- Further update on SVE pilot
- More on RI and Feasibility Study
- Summer sampling results

Meeting adjourned.