

**Meeting Notes  
USACE CRREL RAB Meeting #4  
May 21, 2014**

<b>Attendee</b>	<b>Affiliation</b>
<b>Darrell Moore</b>	<b>COE-NAE</b>
<b>Jeff Pickett</b>	<b>AMEC</b>
<b>Ken Richards</b>	<b>NHDES</b>
<b>Tim McNamara</b>	<b>Dartmouth College</b>
<b>Katherine Connolly</b>	<b>Town of Hanover</b>
<b>Kristine McDevitt</b>	<b>Citizen</b>
<b>Rod Rustad</b>	<b>AMEC</b>
<b>Scott Calkin</b>	<b>AMEC</b>
<b>Dick Berg</b>	<b>Citizen</b>
<b>Stephen Gaughan</b>	<b>Citizen, CRREL Employee</b>
<b>Jonathon Brush</b>	<b>School District</b>

It was announced that Dr. Walter Noll had submitted his resignation to the RAB earlier in the afternoon of May 21.

1. Co-chair Tim McNamara initiated the 4<sup>th</sup> RAB Meeting, and reviewed membership.
2. Meeting minutes review.
  - Clarifications 3 wells connected to municipal wells.
  - Review of the VT groundwater testing
  - Motion made to approve and accept minutes.
  - Approved by unanimous vote of the RAB members present.
3. Comments on the Community Relations Plan. Finalize the Plan for next meeting in June 2014. We will add comments and print copies.
4. Discussion of RAB Meeting for June. Potentially Wednesday the 18<sup>th</sup>. Discussion of location and timing of the next meeting. May try to get meeting room at CRREL.
5. Review of Previous Investigations and On-Going Work at CRREL (Rod Rustad)
  - a. Review of the site buildings and the dates when each buildings was constructed.
  - b. Quick discussion of a review of the geology.

- c. Discussion of groundwater flows in the esker, and capture from the extraction wells.
  - d. Discussion of vapor, diffusion and the migration of contaminants in ground water. Soil gas moves mostly by diffusion vs. groundwater flow which moves by gravity and typically flows downhill.
  - e. Discussion of the impact of barometric pressure on soil gas.
  - f. Request to add review map of glacial Lake Hitchcock at next meeting.
  - g. Do sampling in September fall after school starts.
  - h. Discussion of 18 AOCs back to 1990. 15 of 18 eliminated in the initial RI efforts of early 1990s. Review of AOC tank leaks and piping. Discussion of 1970 release: catastrophic release, but may have had limited contribution to the current situation at AOC 9.
  - i. Discussion of Alan Hewitt, chemist at CRREL, and the issues associated with collection of VOC samples in soils.
  - j. 1996 discussion of LNAPL seen in ENSR borings and the plume of TCE. Data from 1996 ENSR soil and data is much different than what we are seeing today.
  - k. Discussion of Multi-Purpose Room sub-slab mitigation and soil vapor extraction.
  - l. Discussion of Stanley report and soil contamination.
  - m. Discussion of groundwater and TCE contamination. TCE moves by gravity, water infiltration, and precipitation.
  - n. Discussion of groundwater results from existing wells 1994 and 2012.
  - o. Discussion of the treatment systems to remove TCE from CRREL treatment plant. Approximately 2 lbs per day of TCE being removed.
  - p. Review of the actions and #'s of samples taken to date.
  - q. Stephen Gaughan brought up that there had been a request by a CRREL employee for a voluntary review of health monitoring at the facility during an employee meeting the week previous.
  - r. Discussions of epidemiology studies.
6. Agenda, Date and Location – Discussion

There is an upcoming Town Meeting: Wednesday, the 4th of June, 15 minutes presentation, 6:00 pm. Anticipate questions on TCE. CRREL and neighboring businesses were invited.

Need to hear back from RAB members on availability for next RAB meeting, scheduled for June 18.

7. Comments & questions from the public
8. Meeting adjourned