

CRREL Restoration Advisory Board Meeting

January 19th, 2022



Agenda

- Introductions
- Review/Approve September Meeting Minutes
- Proposed Plan and Decision Document
- Connecticut River Remedial Investigation Report
- Richmond Middle School
- Remedial Systems Update
- Groundwater Treatment Plant
- Upcoming Work This Quarter
- Adjourn

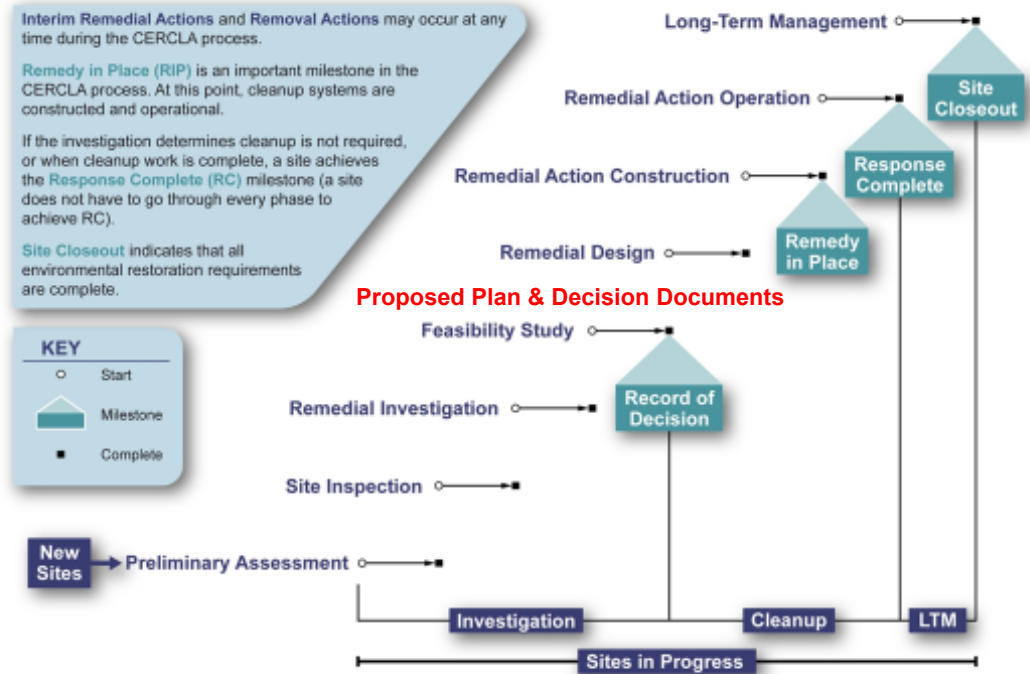


Proposed Plan and Decision Documents

Next Steps in the CERCLA Process

- Proposed Plan – April 2022
 - Provides public opportunity to understand and comment on selected remedies.
- Decision Documents/ Record of Decision – July 2022
 - Provides formal record and rationale for selected remedy and commits parties to the remedy.

Environmental Restoration Process Phases and Milestones



Modified after <https://www.esd.whs.mil/Portals/54/Documents/DD/issuances/dodm/471520m.pdf>



On-Site Proposed Plan

- Draft Final has been reviewed by NAE and is currently under review by Army Environmental Command; NHDES and public comment period and meeting later this Spring.
- Proposed Plan for onsite contamination conclusions:
 - ▶ Preferred Alternative for soil gas remediation established as SVE based on successful pilot testing
 - Up to 5 years to reach remedial goals
 - Larger footprint than current pilot scale systems
 - ▶ Preferred Alternative for groundwater remediation established as an optimized treatment plant
 - 63-109 years to reach remedial goals
 - The system under design meets criteria for this alternative.



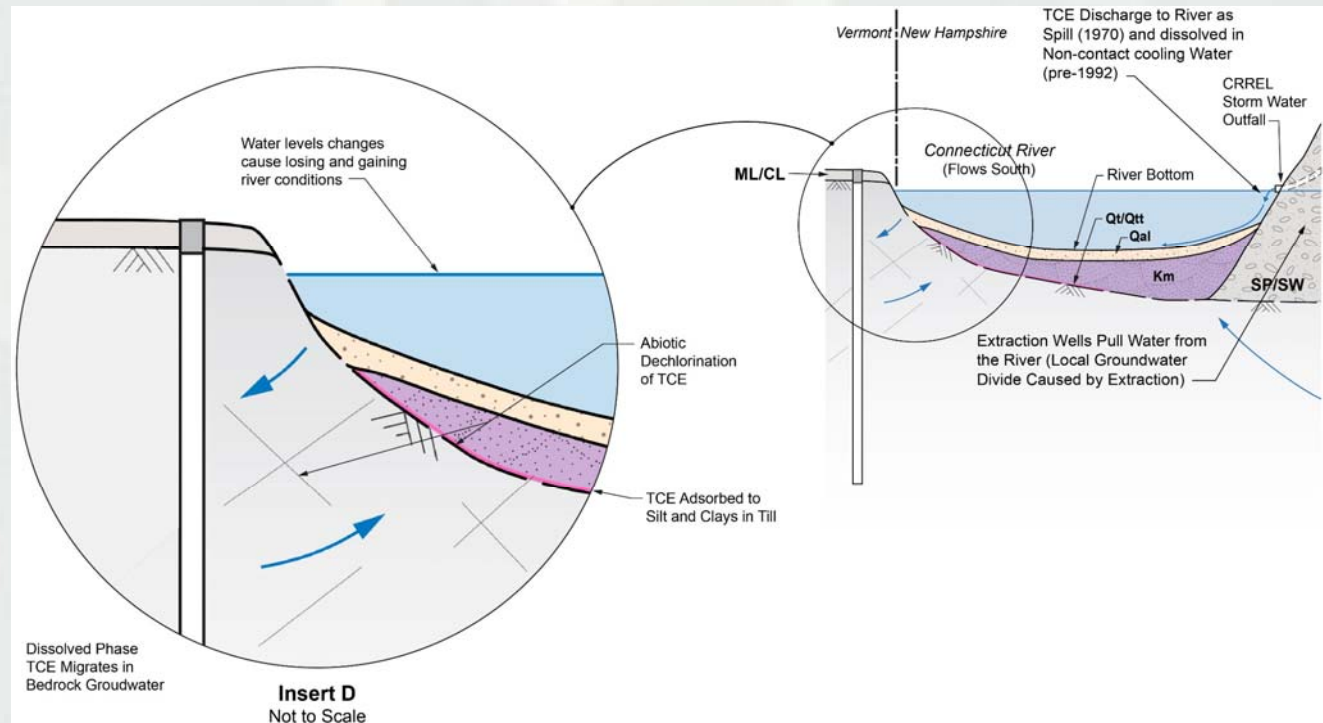
Proposed Plan and Decision Document is a Formal Process

- Public Notice
- Documents will be on file at Howe Library
- 45-day Public Review Cycle
- Public Meeting
- RAB Support
 - ▶ Review Documents During Public Comment Period
 - ▶ Attendance at Public Meetings



Connecticut River Remedial Investigation Report

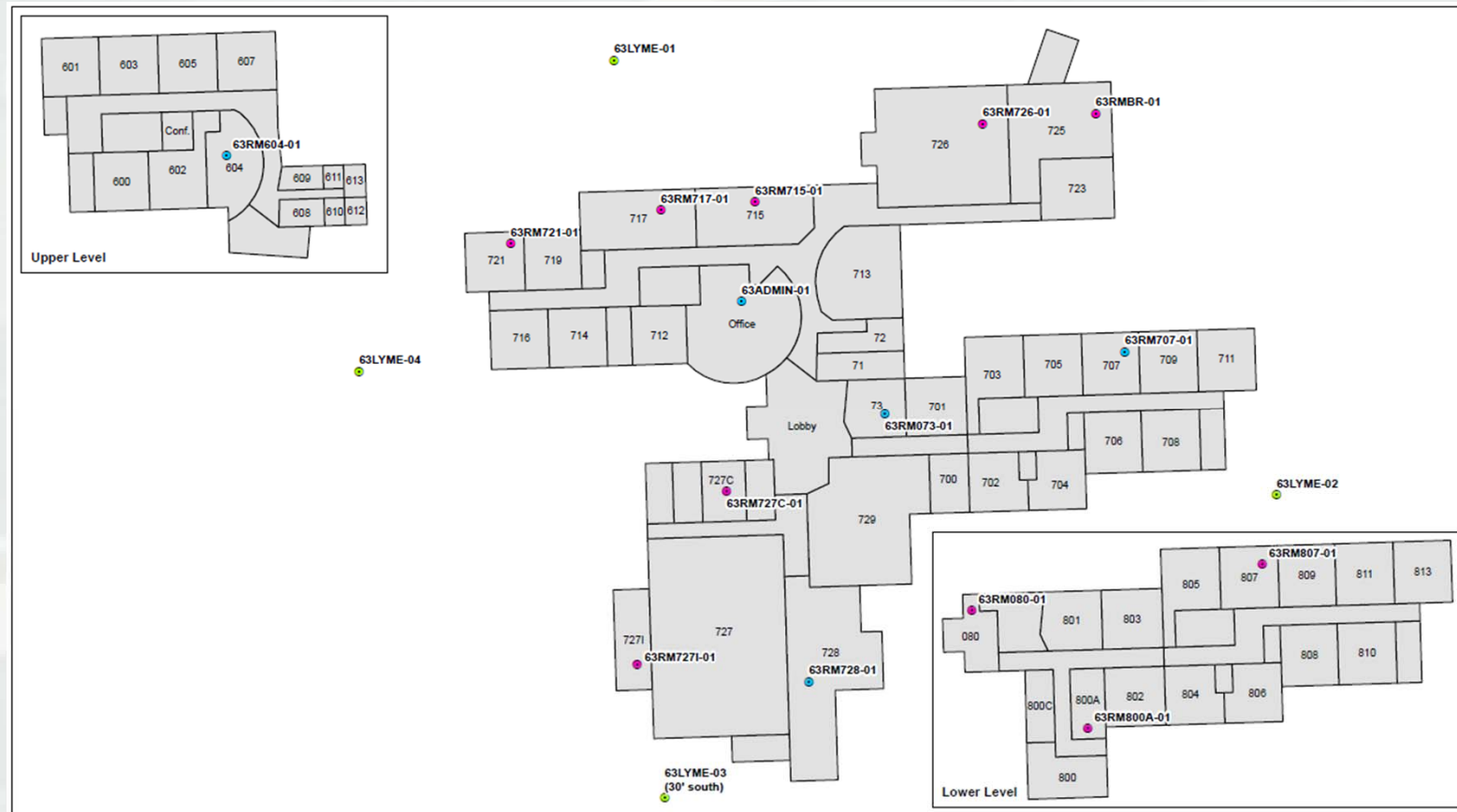
- Draft Final Status in Corps Army Environmental Command Review followed by Vermont DEC, NHDES, and RAB Spring 2022.
- Results for surface water and sediment show no significant risk to ecological or human receptors.
- Results for groundwater wells in Vermont (not currently in use) show potential for risk.
- Advises a Supplemental Feasibility Study



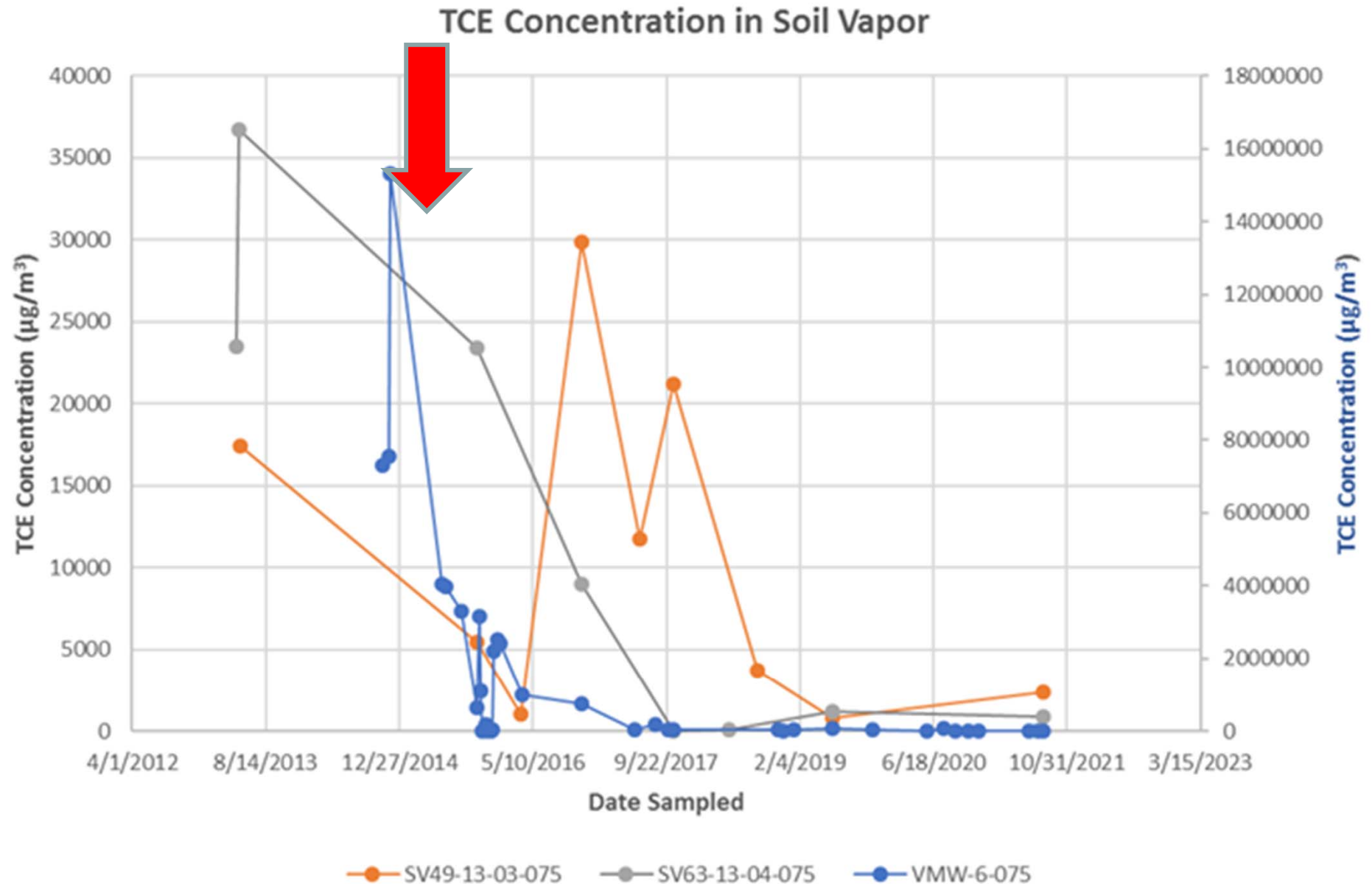
ERDC

Richmond Middle School - Holiday Sampling Event

- Indoor Air, Sub-Slab Air and Ambient Air all Non-Detect for TCE
- Report currently in draft status
- Next sampling will be conducted in support of the 5-Year Review Cycle for the Project



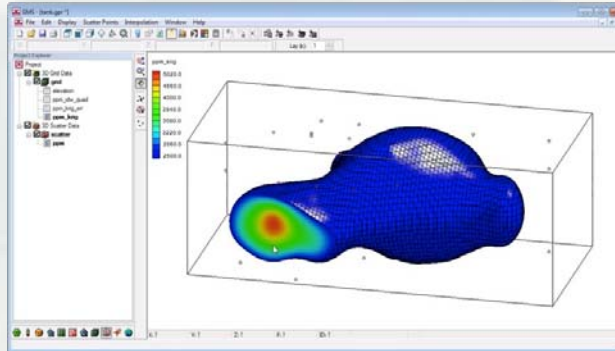
Removal of ~3,600 kilograms of TCE from Soil Gas



3,600 kilograms of TCE could...



<https://www.dreamstime.com/photos-images/olympic-swimming-pool.html>



<https://www.erd.usace.army.mil/Media/Fact-Sheets/Fact-Sheet-Article-View/Article/476776/groundwater-modeling-system/>

HOW I FOUND THE SECRET HIDDEN FUEL FILTER SCREEN



<https://www.donthesmallenginedoctor.com>

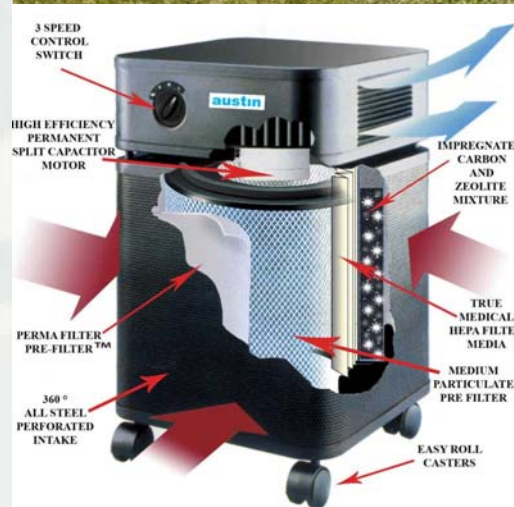
- contaminate **287,000** Olympic Pools at a concentration exceeding the Federal Maximum Contaminant Level (MCL) of 5 µg/L
- create **130** individual groundwater plumes exceeding the MCL at a cost of billions of dollars
- clean over **52,000** small engine carburetors for Department of Public Works in Hanover



ERDC

Remedial Systems Update

- SVE Systems were shut down/decommissioned in October and November 2021.
- SVE rebound study underway, conducted sampling in November and December 2021, next round late April 2022.
- Healthmates continue to operate
- Plenum Air Purifying Units continue to operate
- Sub-slab depressurization systems continue to operate



Groundwater Treatment Plant Update

- 60% Design Completed in June
- Building location is final. Bottom of the stairs and to the left.
- Value Engineering Study conducted in December.
- 65% Design expected July 2022.
- Anticipate completion of the 100% design late Fall 2022.



Upcoming Work

- Continued monitoring of the Main Lab, FERF, and LMO
- Routine sampling of sub slab depressurization systems and enhanced permeability pilot test
- Finalize Draft Final CT River RI for Regulatory Review
- Proposed Plan and Decision Document for on-site
- Work on 65 and 100% Design for the New Groundwater Treatment Plant
- Reminder that the Administrative Record can be found at the Howe Library in Hanover

