

**US Army Corps
of Engineers
Baltimore District**

Fort Detrick Remedial Investigation/Feasibility Study

**Restoration Advisory Board Meeting
11 July 2001 7:30 PM
Fort Detrick, Frederick, Maryland**

Area B Removal Action Update



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- Building was split into two sections in May and delineation continued on pit extensions.
- Splitting and moving the containment structure - June 2001

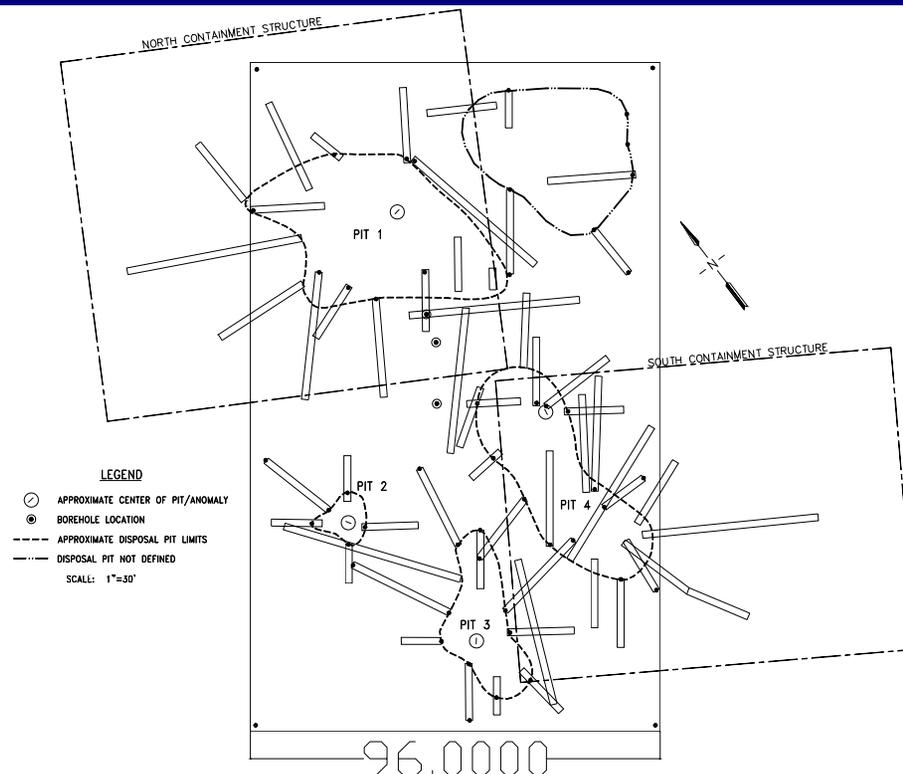




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Area B Removal Action Update (Continued)

- Pit delineation completed in June.
- 13 additional surface samples showed that no biological pathogens were detected after delineation activities were completed.
- Delineation has shown that pits are significantly larger than expected (Original Pits were estimated to be approximately 20 feet long , 12 feet wide and 15 feet deep).





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Area B Removal Action

Update

(Continued)

- **Expect freeze pipe installation to begin next week**
- **After pipe are installed, building and engineering controls will be put in place**
- **To improve worker safety, small vials and jars will be crushed rather than individually segregated and sampled.**

SCHEDULE

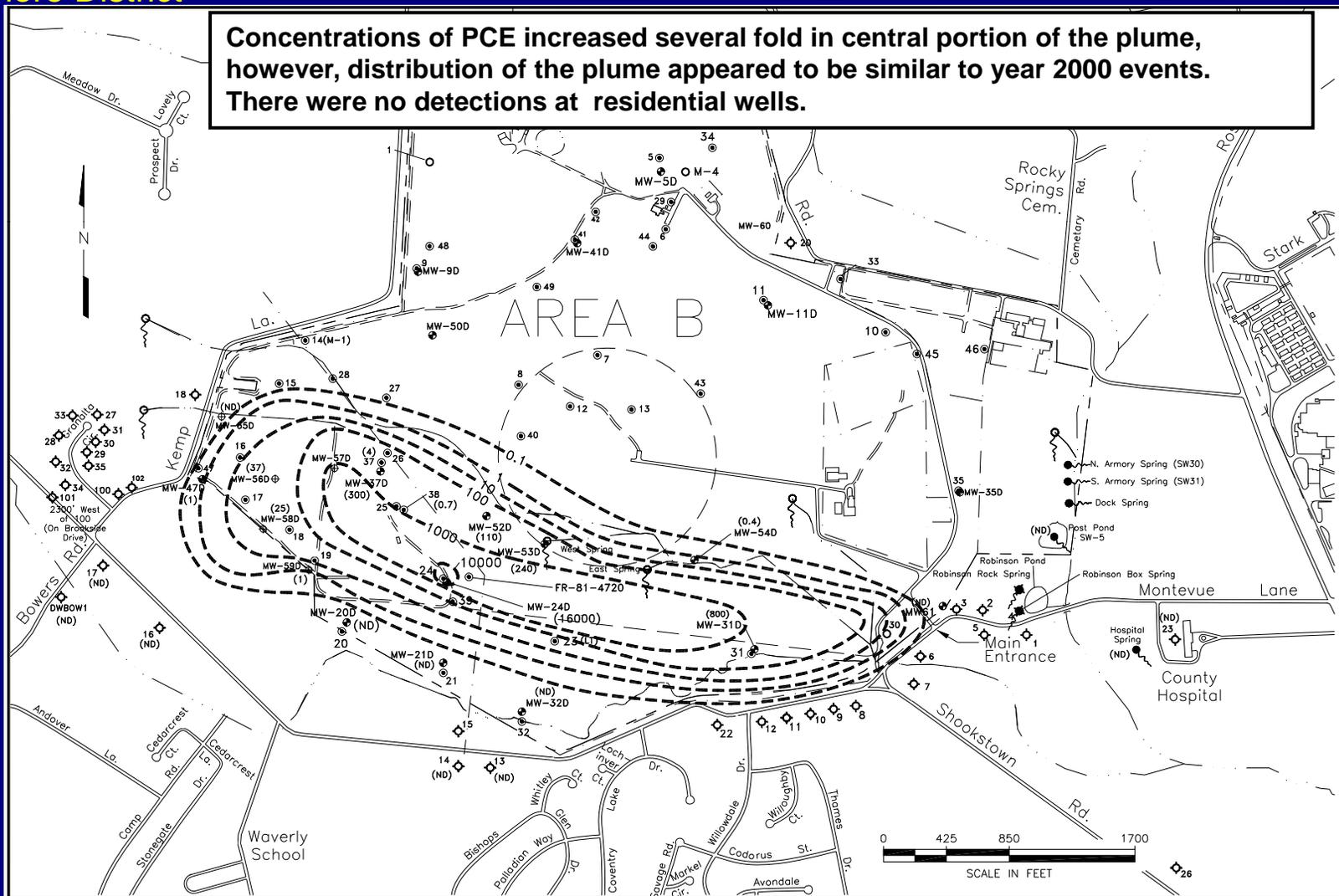
- **July - August 2001 - Freeze barrier installation**
- **September 2001 - Process Setup**
- **October 2001 - Begin removal**



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Fort Detrick RI/FS Quarterly Sampling results PCE Plume (Apr./May. 2001)

Concentrations of PCE increased several fold in central portion of the plume, however, distribution of the plume appeared to be similar to year 2000 events. There were no detections at residential wells.





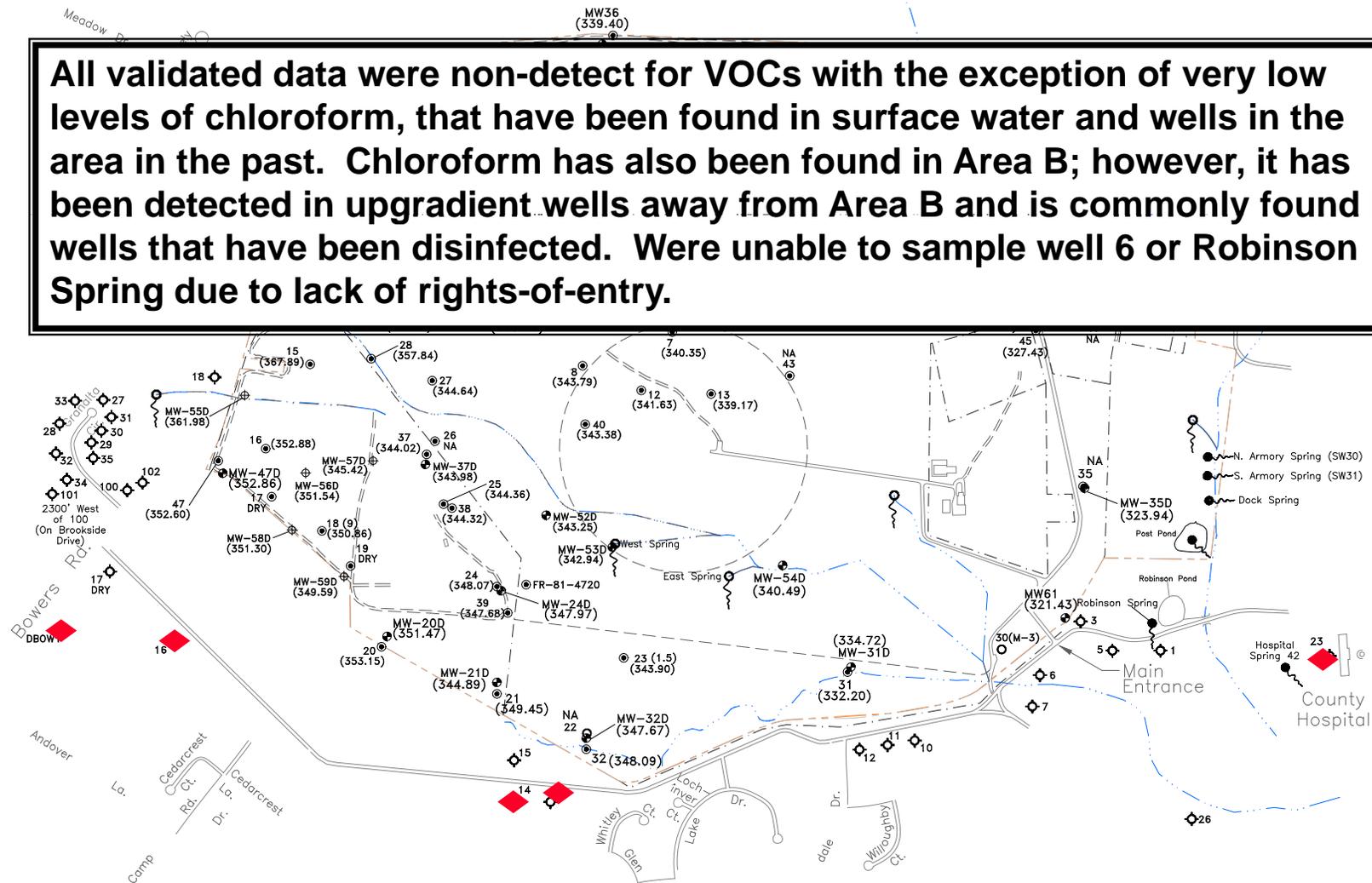
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Fort Detrick RI/FS

RESIDENTIAL BOUNDARY WELLS

Sampling Locations April 2001

All validated data were non-detect for VOCs with the exception of very low levels of chloroform, that have been found in surface water and wells in the area in the past. Chloroform has also been found in Area B; however, it has been detected in upgradient wells away from Area B and is commonly found in wells that have been disinfected. Were unable to sample well 6 or Robinson Spring due to lack of rights-of-entry.



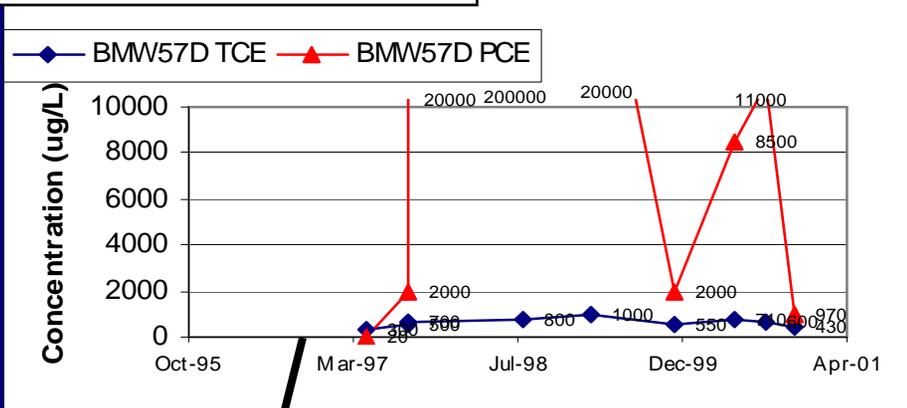


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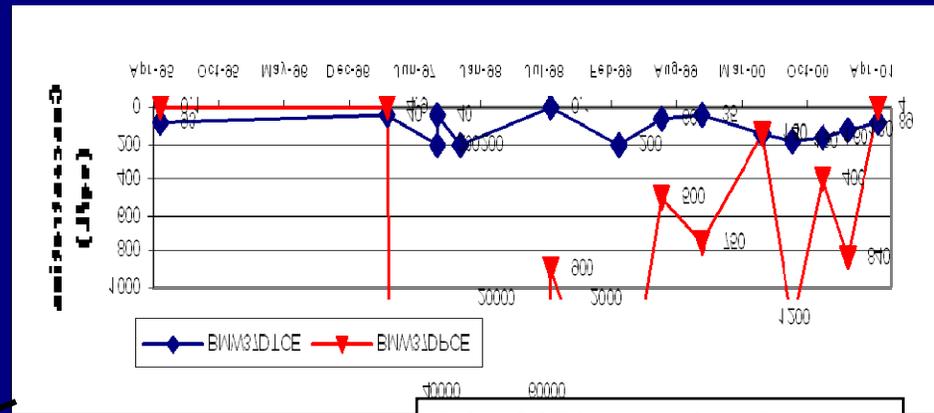
Fort Detrick RI/FS

Data Trends - Area B Interior Wells - Hot Spots

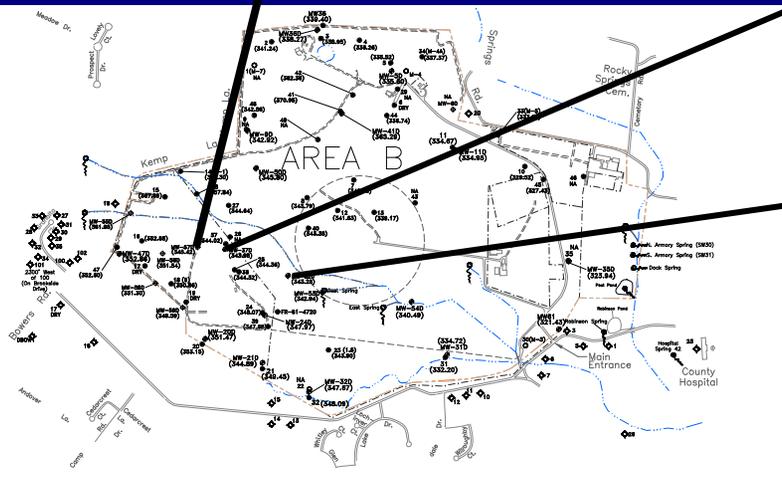
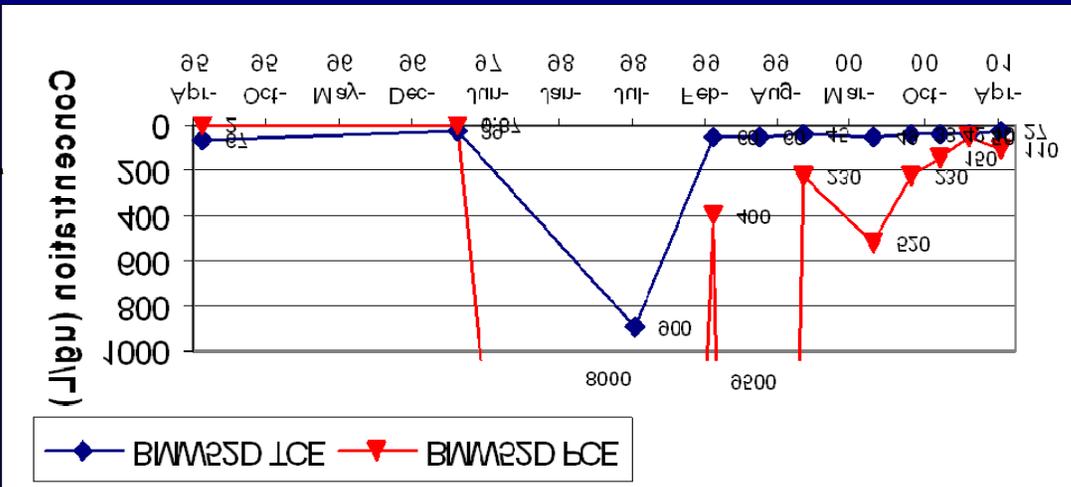
57D not Sampled since Nov 00



37D - TCE and PCE relatively steady



52D - PCE Increase from 50 to 110 ppb





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Fort Detrick RI/FS Area A Update

Completed

Revised RI (Final)

FS (Final)

PP (PROPOSED PLAN)

PP COMMENT PERIOD

Date

Jun 00

Feb 01

Feb 01

Mar 22, 01 - Apr 21, 01

Pending Schedule:

DD (DECISION DOCUMENT) (pending signature)

RD (REMEDIAL DESIGN)

RA (REMEDIAL ACTION)

CC (CONSTRUCTION COMPLETE)

LTM (LONG TERM MONITORING)

Completion Date

Aug. 01

Dec 01

Jan. 02

Jan. 02

Jan. 22



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Fort Detrick RI/FS

Area B Update

Completed and Planned Field Activities

COMPLETED TASKS SINCE LAST MEETING

- Perimeter Sampling of wells surrounding Area B
- Interviews with former employees were conducted to enhance RI information.

PLANNED

- Additional periodic residential and on-post well and surface water sampling - Every 1.5 months.
- Dye trace study - Schedule being developed (funding dependent).
- Water Treatment System (Krantz) - On-hold pending installation of City water by February 2002.
- Interviews with former employees to enhance RI information.



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Area C Update

- **Ash Disposal Area is being considered for an interim removal action (funding dependent).**
- **RI/FS to be completed pending funding.**
- **Ecological and Human Health Risk Assessments are in progress.**
- **EPA has not identified any at-risk ecological habitats based on the data (may allow close out of the ecological risk assessment).**