



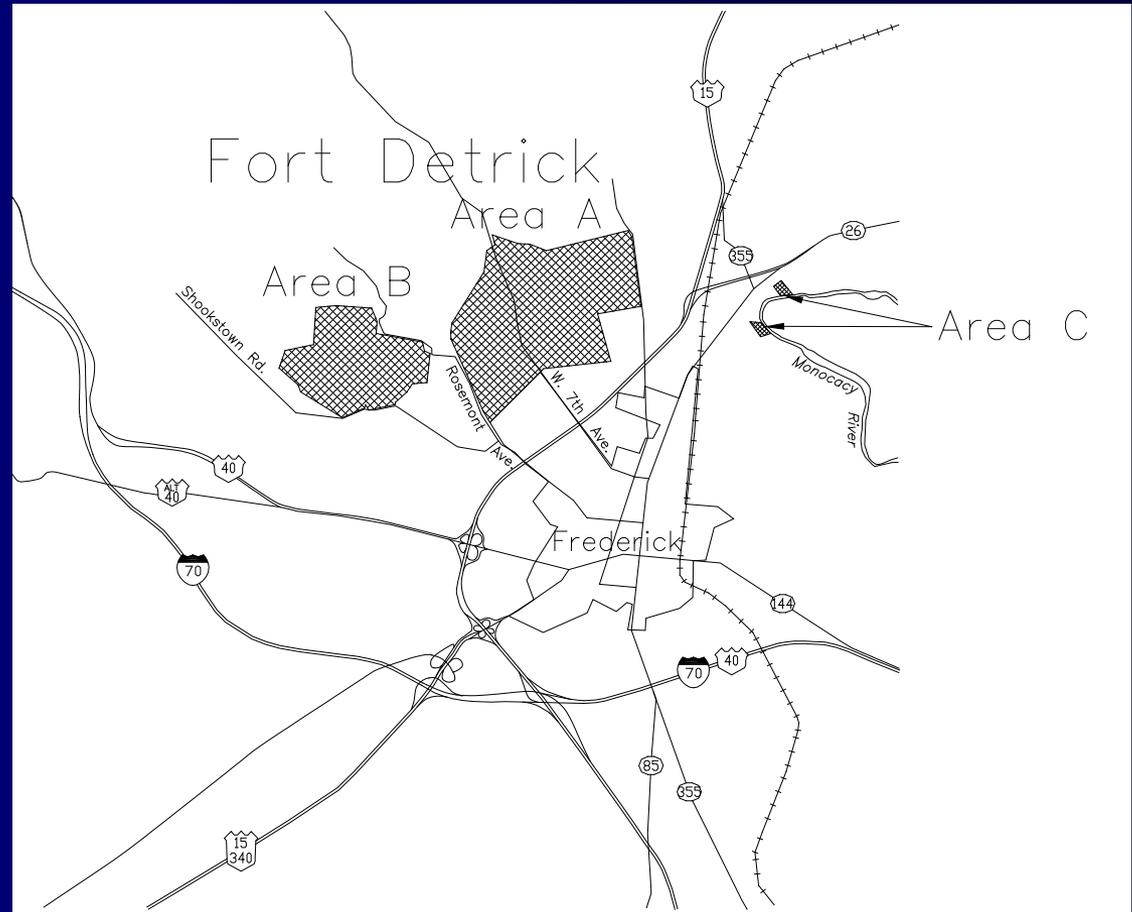
# Fort Detrick Remedial Investigation/Feasibility Study Performance-Based Contract (PBC) Update

Fort Detrick Restoration Advisory Board Meeting  
13 October 2005  
Fort Detrick, Maryland



# PBC Contract Background

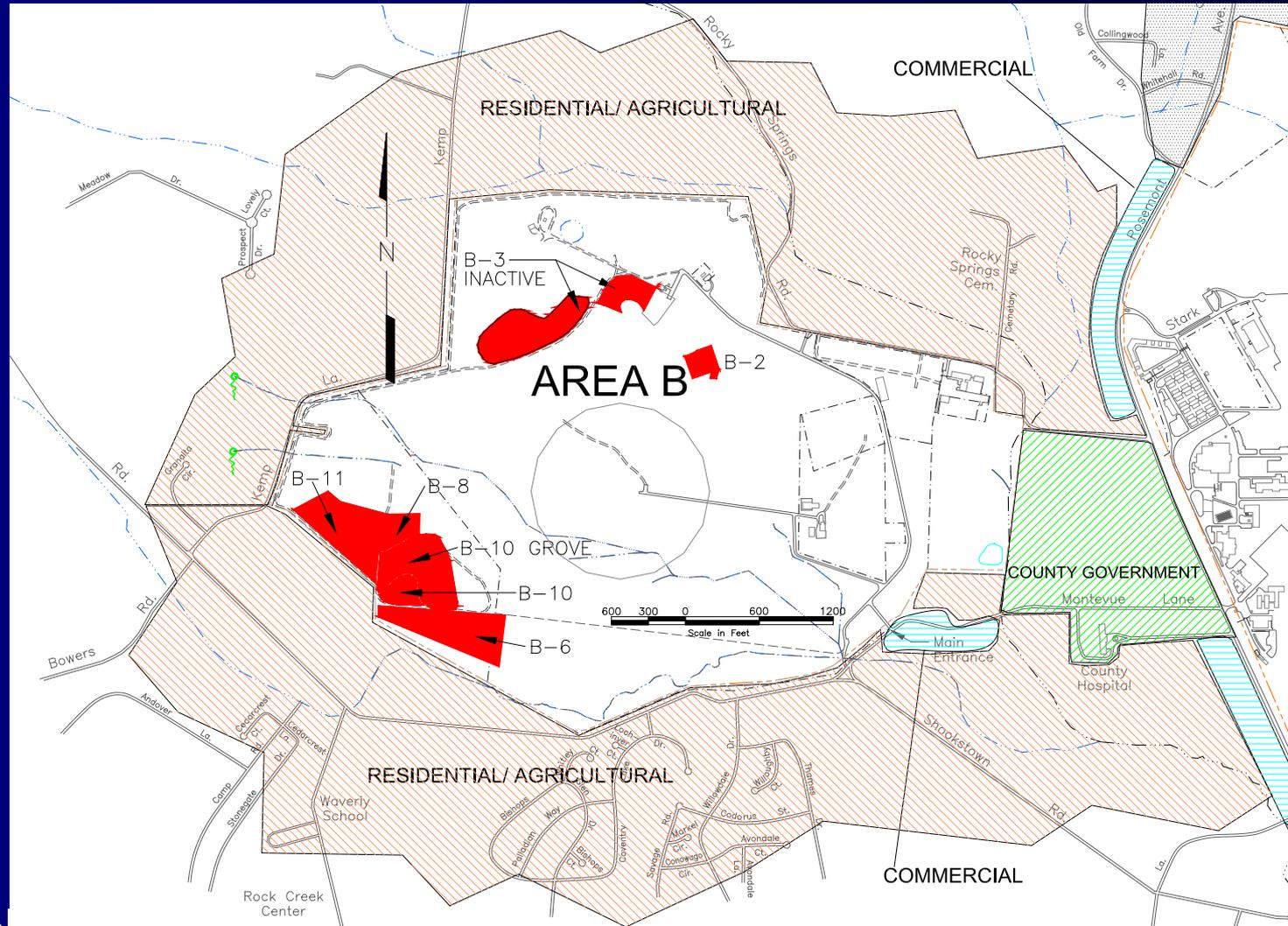
- **Shaw Won Fort Detrick PBC – contract dated 16 August 2004**
- **Approx. \$8M value (\$1M in insurance)**
- **Duration 108 Months (9 years)**
- **Contract is fixed price.**
- **Focus is on Area B plus TCE spill site in Area A**





# Major Remediation Areas – Area B

The major remediation Areas in Area B includes areas B-2, B-3, B-6, B-8, B-10, B-11 and Groundwater (site-wide). B-18 is also included which is a sinkhole





# Work In Progress/Completed

## Completed

- Area B Phase III Remedial Investigation (RI) Work Plan was completed in (Jan 2005)
- First round of Extended sampling of wells and surface water in Area B to complete RI Data Set
- Second round of Area B periodic monitoring
- Water Towers Long Term Monitoring (LTM) - First PBC Round

## In Progress/Planned

- Objective is to complete the Landfill RIs by the end of May 2006
- Area B-18 Debris removal/sampling and Close-Out
- Area B-Groundwater RI – planned to complete by December 2006





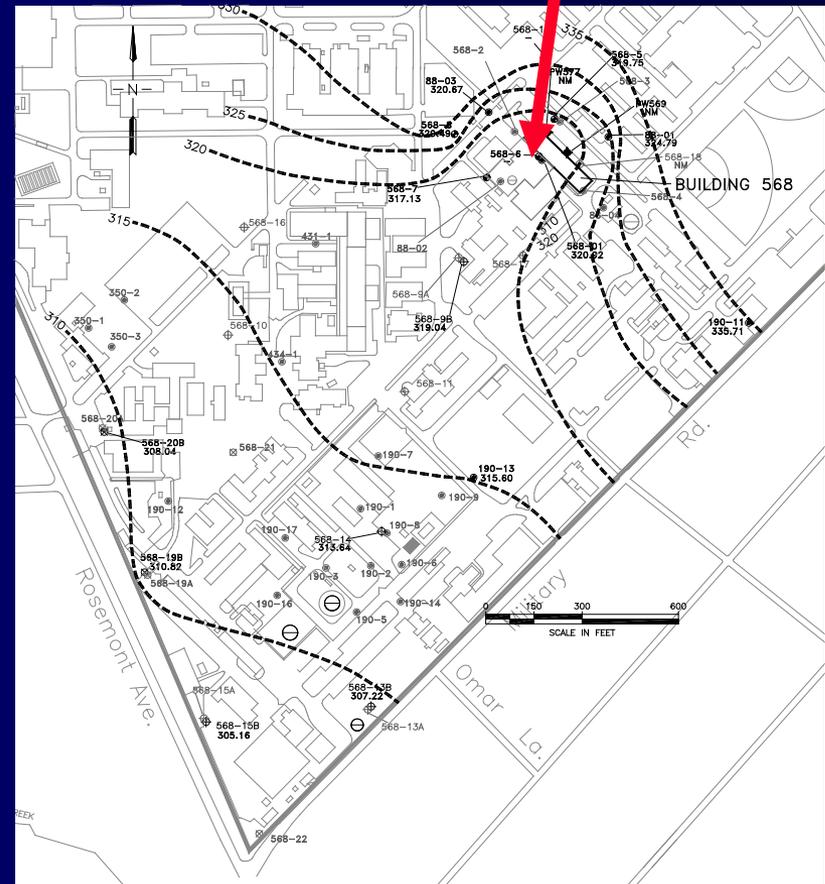
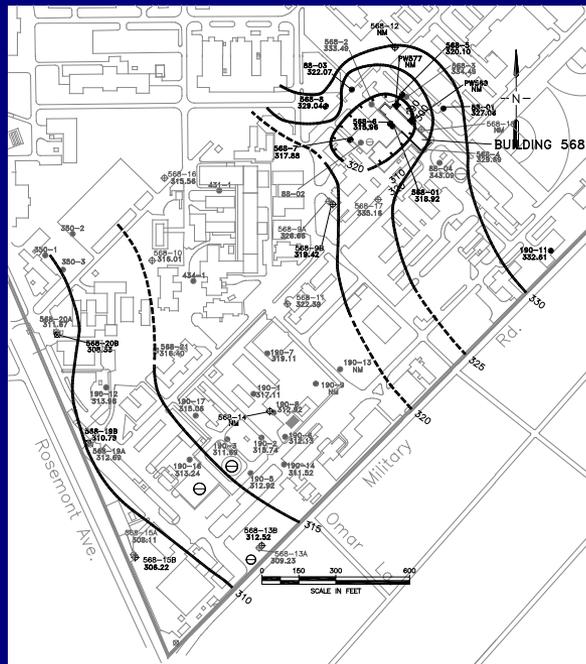
# Area A Trichloroethylene (TCE) Spill - Deep Groundwater Levels - September 2005

Less Drawdown in the Area of Building 568 but still apparent.

Virtually the same deep groundwater flow conditions as observed in September 2004.

Drawdown still apparent near Building 568.

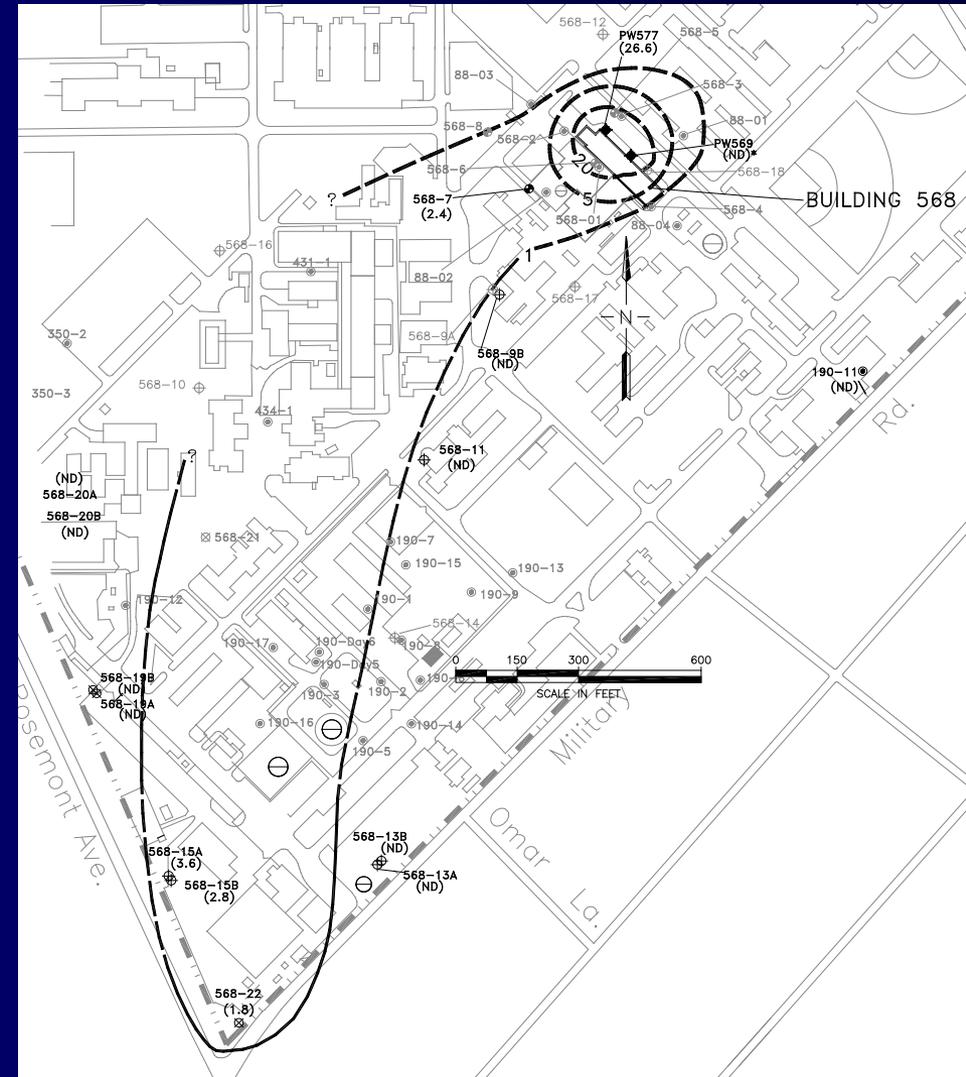
MARCH 2005





## Area A – TCE Plume March 2005 – (Sept. 05 Data not yet available)

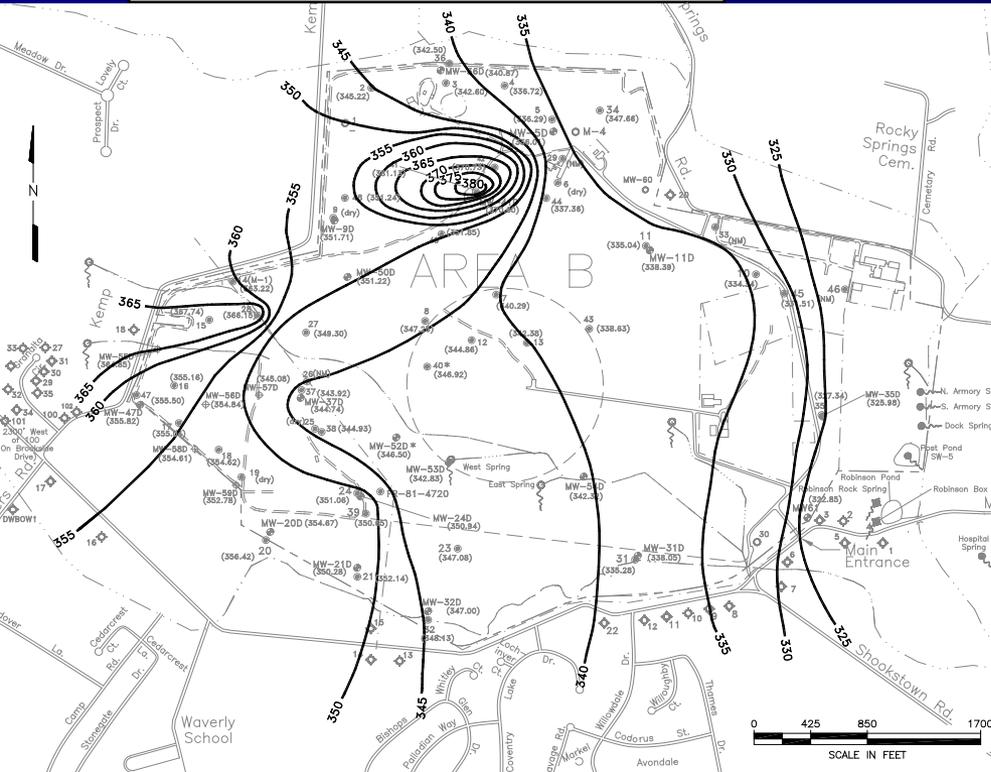
- TCE was detected above the MCL of 5 µg/L only one extraction wells (26.6 µg/l).
- The distribution of contamination is virtually unchanged since LTGM commenced in 2002.
- The extraction wells continue to depress groundwater in the TCE release area, even with the reduced extraction rates that began in February 2003.
- TCE is still below the MCL downgradient of Building 568, and at the property boundary as required.



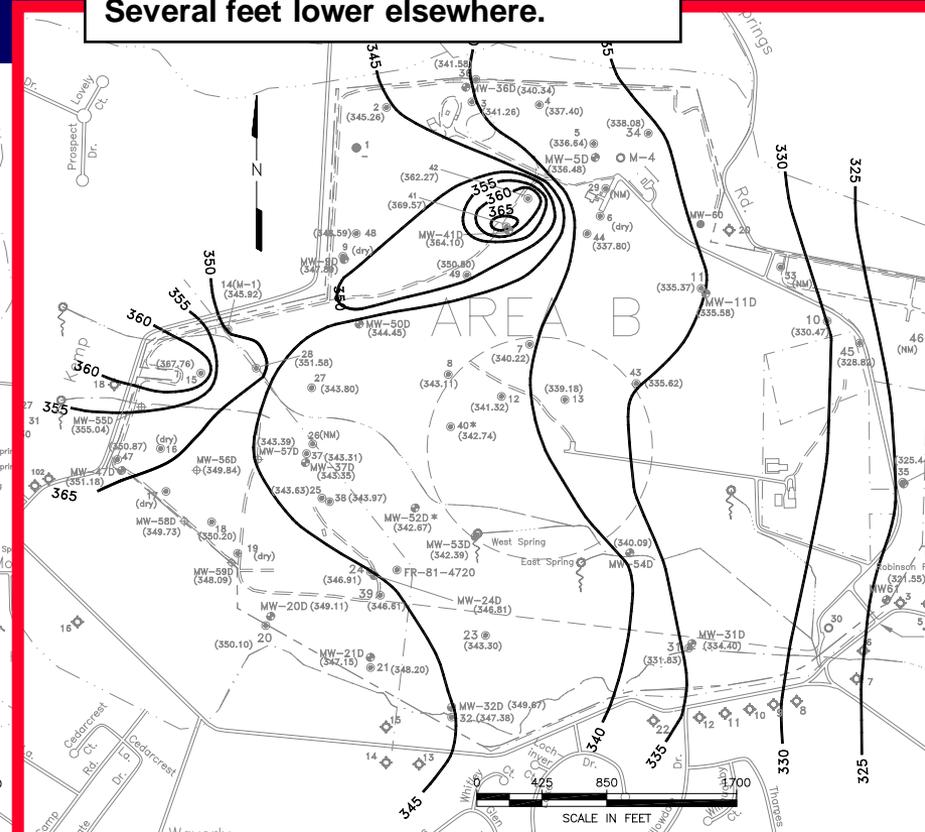


# Area B Water Levels July and September 2005

July 2005. Similar water levels to March 2005.

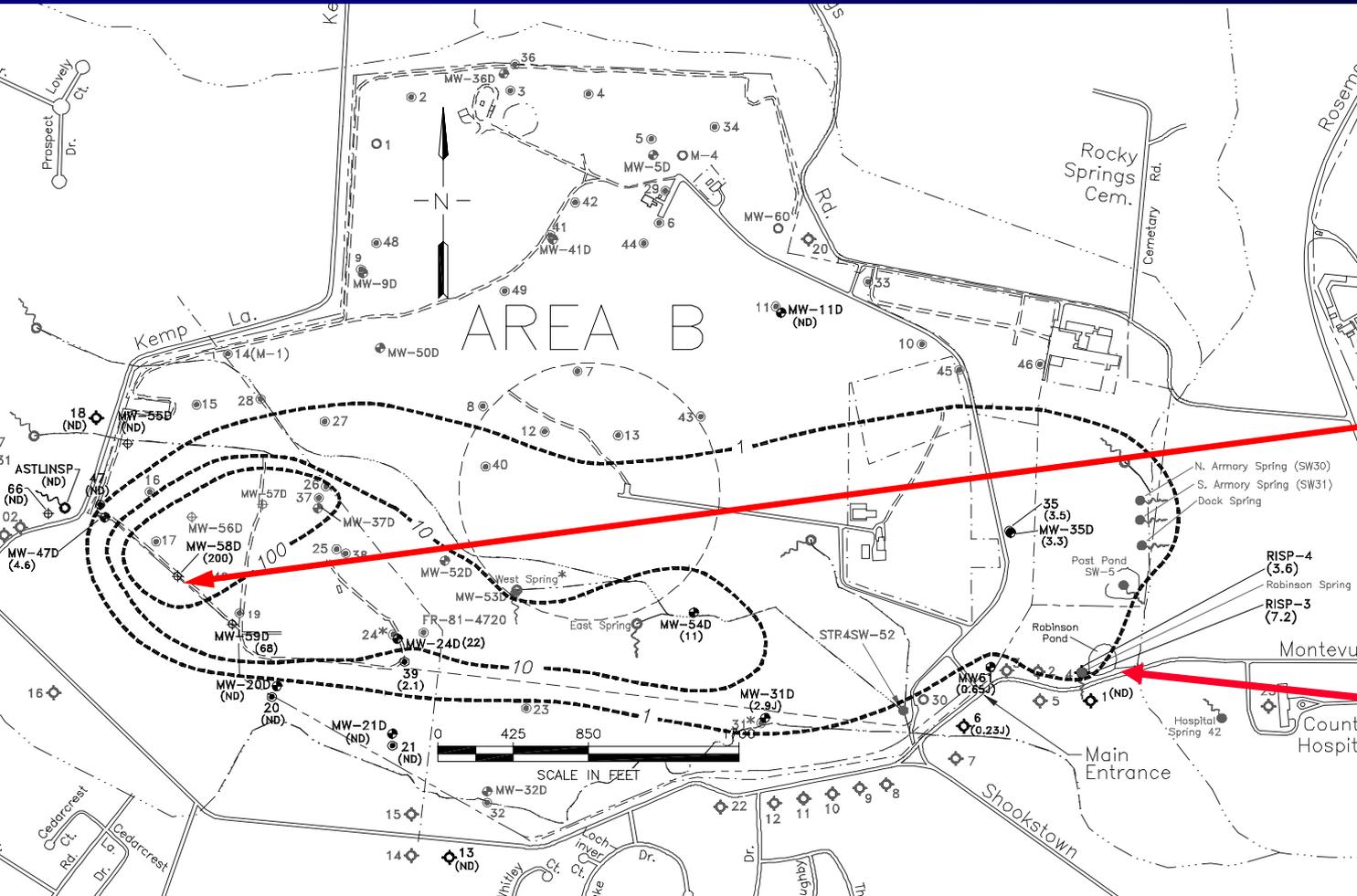


September 2005 – Water levels 15 feet lower in area of active landfill – Several feet lower elsewhere.





# Area B TCE Concentrations July 2005



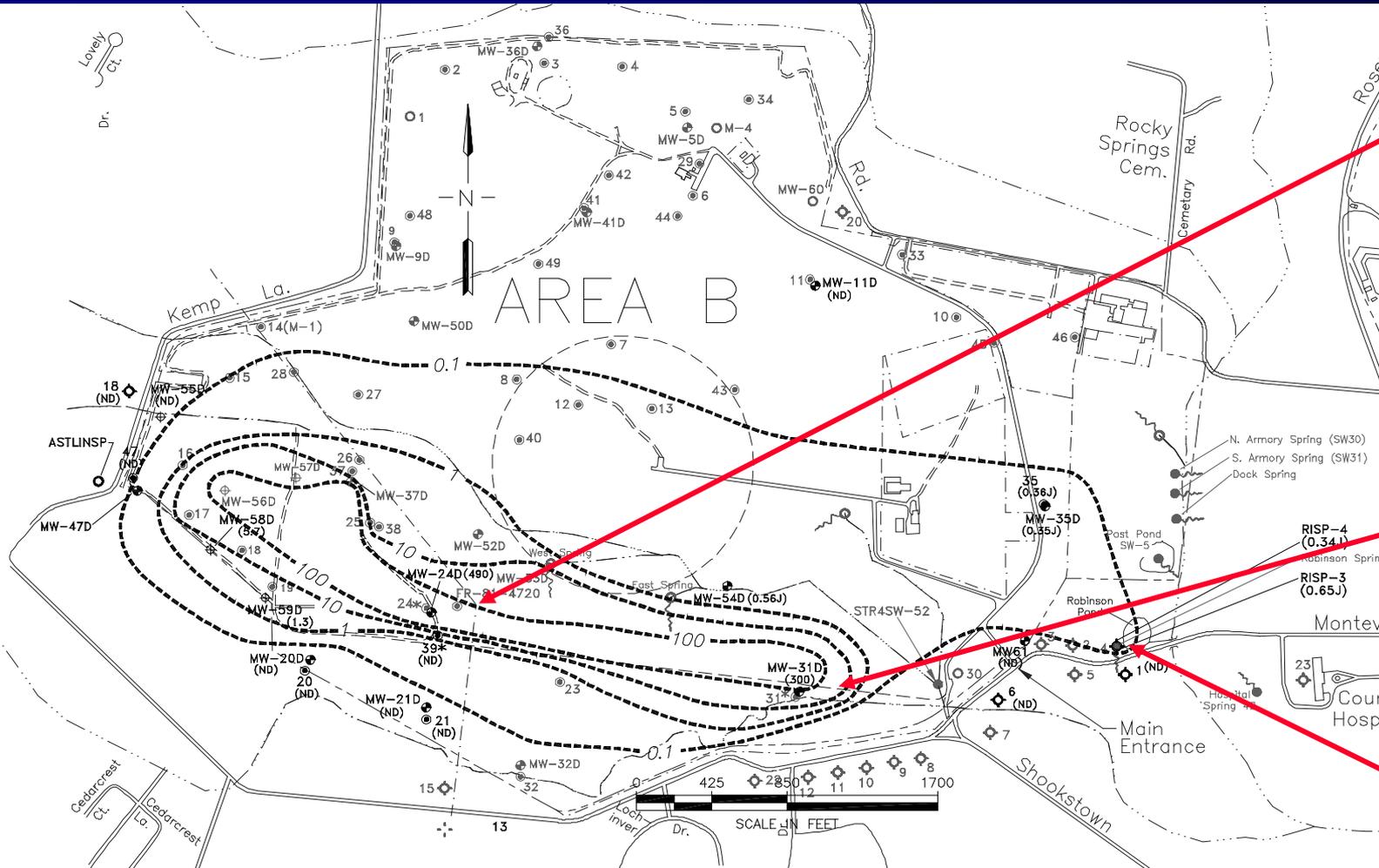
Concentrations on the perimeter of the plume were generally equivalent to recent sampling events.

The deep, historically contaminated well 58D had a concentration of 200 parts per billion (ug/L), which almost identical to March 2005 and at the low end of historical range of fluctuation from 182–1000 ug/L.

Springs RISP-3 and 4 were sampled for the first time since January 2001- TCE at low-end near 1998 levels (7.2 ug/L)



# Area B Perchloroethylene (PCE) Concentrations - July 2005



Interior hot spot at well 24D dropped from 11900 ug/L in March to 490 ug/L. Suggests change in contact with any residual liquid PCE.

Concentrations of PCE at perimeter of plume generally equivalent to recent sampling with the exception of well 31D that was down to 300 ug/L from 793 in March.

Springs RISP-3 and 4 were at historical lows (fractions of ug/L)



# Planned Schedule/Major Items

<b>Item</b>	<b>Projected Complete</b>
<b>Disposal Areas (RI)</b>	<b>May 2006</b>
<b>Disposal Areas Feasibility Study (FS)</b>	<b>November 2006</b>
<b>Disposal Areas Proposed Plan</b>	<b>February 2007</b>
<b>Disposal Areas Decision Document</b>	<b>May 2007</b>
<b>Disposal Areas Remedial Action</b>	<b>March 2008</b>
<b>Groundwater RI/FS</b>	<b>Dec 2006</b>
<b>Groundwater Proposed Plan</b>	<b>July 2007</b>
<b>Groundwater Decision Document</b>	<b>October 2007</b>
<b>Groundwater Remedial Action</b>	<b>End of Contract</b>

**All dates dependent on selected remedial alternatives**

**Approvals are required by Army and Regulators and are subject to Public comment.**

