



Fort Detrick Remedial Investigation/Feasibility Study

Status Update

Fort Detrick Restoration Advisory Board Meeting
8 May 2008
Fort Detrick, Maryland



Status Update Discussion

- Area B Former Disposal Sites Schedule Update
- Area B Groundwater



Area B Former Disposal Sites



Area B Former Disposal Sites





Remedial Strategy for Area B Former Disposal Sites

- Utilize EPA Presumptive Remedy for Landfills B-2, B-3 Inactive, B-6, B-8, Trenches North of B-8, B-10, and B-11
- Comply with current Code of Maryland Regulation 26.04.07.21 for Sanitary Landfill Closure as a relevant and appropriate requirement



Area B Former Disposal Site Schedule

Site	RI/FS	Proposed Plan Public Comment	Decision Document	Capping Work Plan	Construction
B-2	Finalized Oct 2006	Aug 24 - Sep 23 2007	Signed 21 February 2008	Fall 2008 (Sept/Nov)	Winter 2008
B-3 Inactive	Addressing Comments from MDE. Final RI/FS projected for Summer 2008	Summer 2008 (June/July)	Summer 2008 (July/Aug)		
B-6	Finalized Feb 2007				
B-8 Trenches North B-8 B-10/B-10 Grove B-11	Addressed Comments from MDE. Final RI/FS submitted April 2008				
B-18	Investigation was completed in March 2008 to assess whether buried waste is present.				



Area B-18 Site Inspection





Area B-18 Site Inspection

- Surface debris removal activities were performed by Shaw personnel on March 18, 2008
- Purpose was to eliminate all surface metallic items and to provide access for the geophysical instrument
- Surface debris was predominantly removed by hand; however, some items were partially covered with sediment from the intermittent stream that previously flowed into the area and were removed by pulling them out with a backhoe
- Excavation of subsurface debris was not intended for this stage of work
- Due to the potential for encountering medical waste, debris removal activities were conducted in Level C PPE



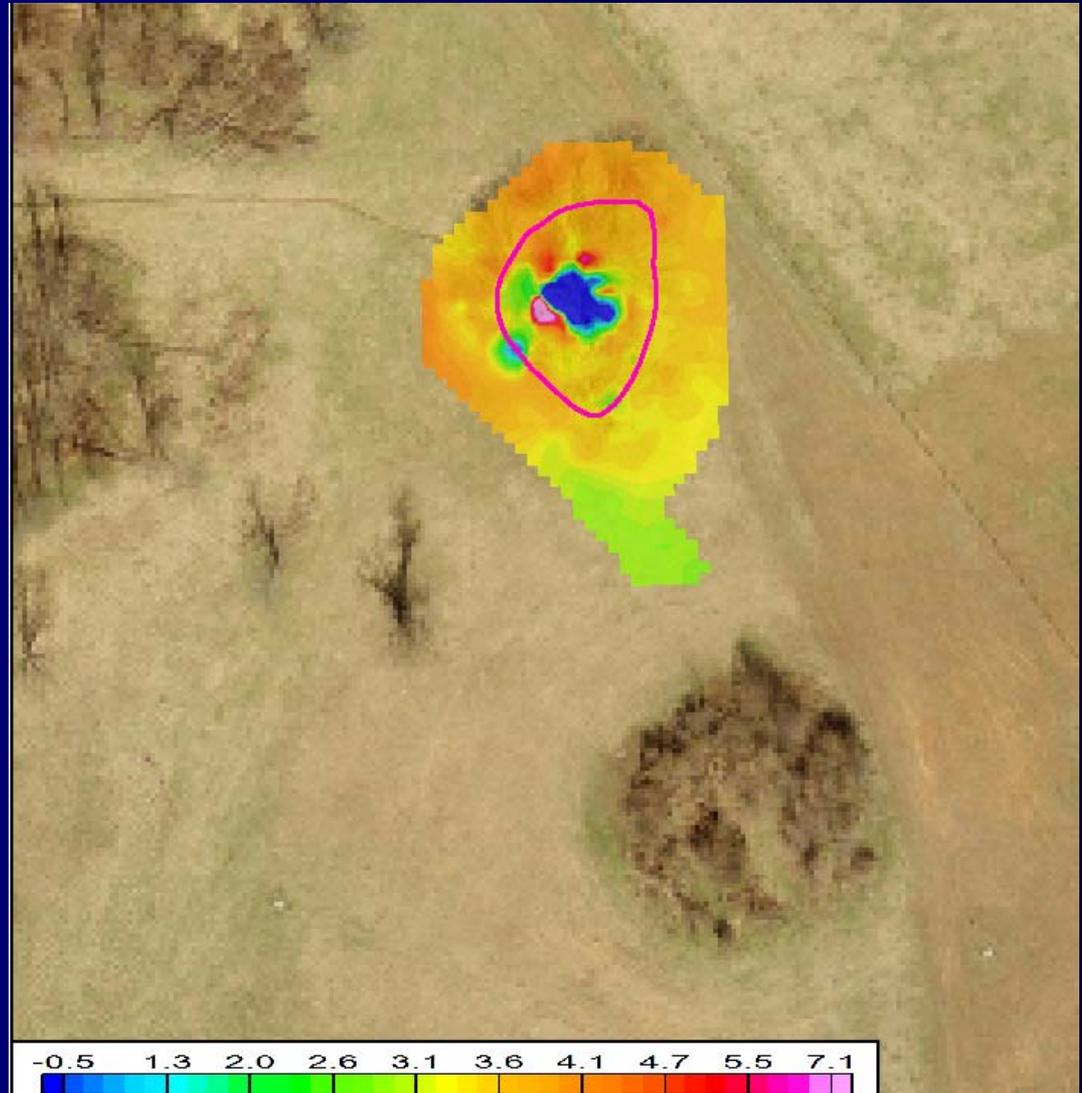
Area B-18 Site Inspection

- Approximately six cubic yards of predominantly metallic debris was removed from Area B-18. Debris items removed from the surface that could be identified included:
 - a metal bi-folding door;
 - metal shelves and shelf framing;
 - thin metal bands;
 - broken pieces of glass lab ware;
 - floor tiles;
 - wire mesh screen; and,
 - miscellaneous broken pieces of metallic debris.
- No medical waste was encountered during debris removal activities
- Following debris removal, an EM-31 geophysical survey was performed by a Shaw geophysicist to determine if buried metal disposable materials were present below the surface



Area B-18 Site Inspection

- The site was surveyed in two perpendicular directions in a meandering path method in order to attempt to cover as much ground as possible between and around the trees
- Survey results indicate an oblique anomalous area is present and measures approximately 10 meters by 15 meters
- The majority of the anomaly extent is found in the in-phase data indicating the majority of this anomaly is from a metal mass

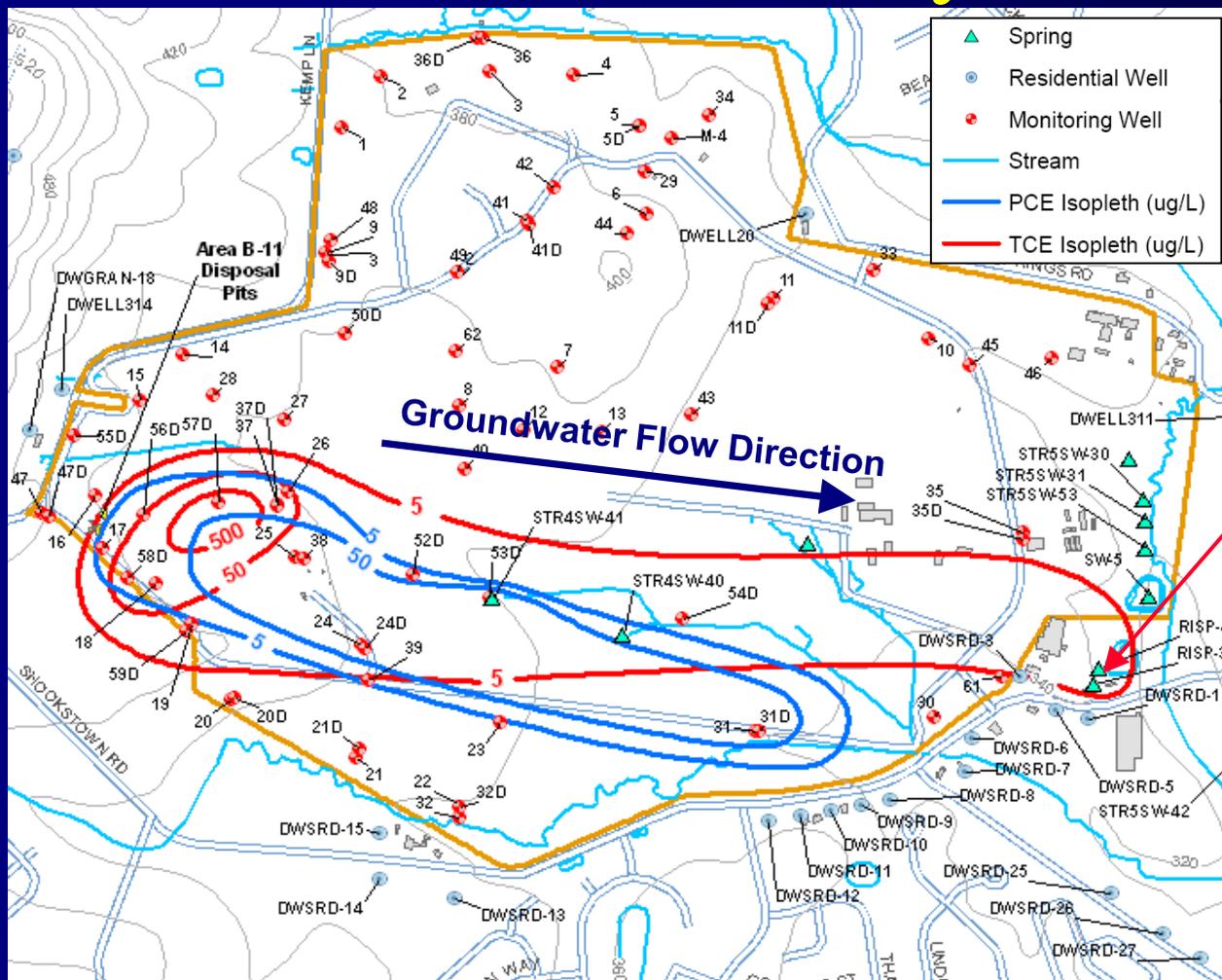




Area B Groundwater



Area B PCE and TCE Concentrations January 2008



Robinson Spring is highest observed off-post detection at

- TCE 8.5 $\mu\text{g/L}$ – Sept 07
- PCE 1.0 $\mu\text{g/L}$ – Sep 07
- TCE 10 $\mu\text{g/L}$ – Jan 08
- PCE 0.9 $\mu\text{g/L}$ – Jan 08



Area B Groundwater Discussion

- Regulators had expressed concern that further characterization of groundwater was needed.
- The Army developed and submitted a report to MDE and EPA describing the Conceptual Site Model (CSM) for Area B Groundwater.
- A Meeting was held on 28 Feb 2008 with Fort Detrick, MDE, AEC, OMB, Dept. of the Army, and EPA to present and discuss the Army's Conceptual Site Model and path forward.
- Additional partnering meetings will be held with MDE and EPA to refine the CSM and develop a Work Plan for any additional work that is determined to be necessary.



Area B Groundwater RI/FS Path Forward

- The Army has re-established partnering agreement with MDE and EPA
 - First meeting was held on 16/17 April 2008
 - Second meeting was held on 6/7 May 2008
 - Third meeting is scheduled for 1/2 July 2008
- Shaw conducted a well inventory and assessment of existing residential wells to the southeast of Area B to determine if there are existing wells available for plume characterization
- The Partnering team will evaluate the conceptual site model, identify potential data gaps, develop work plan, and collect additional data as necessary