

**US Army Corps
of Engineers
Baltimore District**

Fort Detrick Installation Restoration Program

**Restoration Advisory Board Meeting
13 October 2005 7:30 PM
Fort Detrick, Frederick, Maryland**



Fort Detrick Area A LTM Update

**US Army Corps
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Baltimore District



Pending Schedule:

USACE Portion of Project Completed

Items Completed:

Area A Long-Term Monitoring (LTM) Plan
Area A LTM Sampling (1st round)
Area A LTM Sampling (2nd round)
Semi-Annual Sampling Report (May 02 Sampling)
Area A LTM Sampling (3rd round)
Semi-Annual Sampling Report (June 03 Sampling)
Final Area A LTM Sampling Report (May 03 Sampling)
Final Area A LTM Sampling Report (Oct 03 Sampling)
Award Area A LTM (1 Year of Sampling)
Area A LTM Sampling (4th round)
Semi-Annual Sampling (5th round)
Semi-Annual Sampling Report (Sept 04 Sampling)
Semi-Annual Sampling Report (Mar 05 Sampling)

Estimated Completion Date

Completed Date

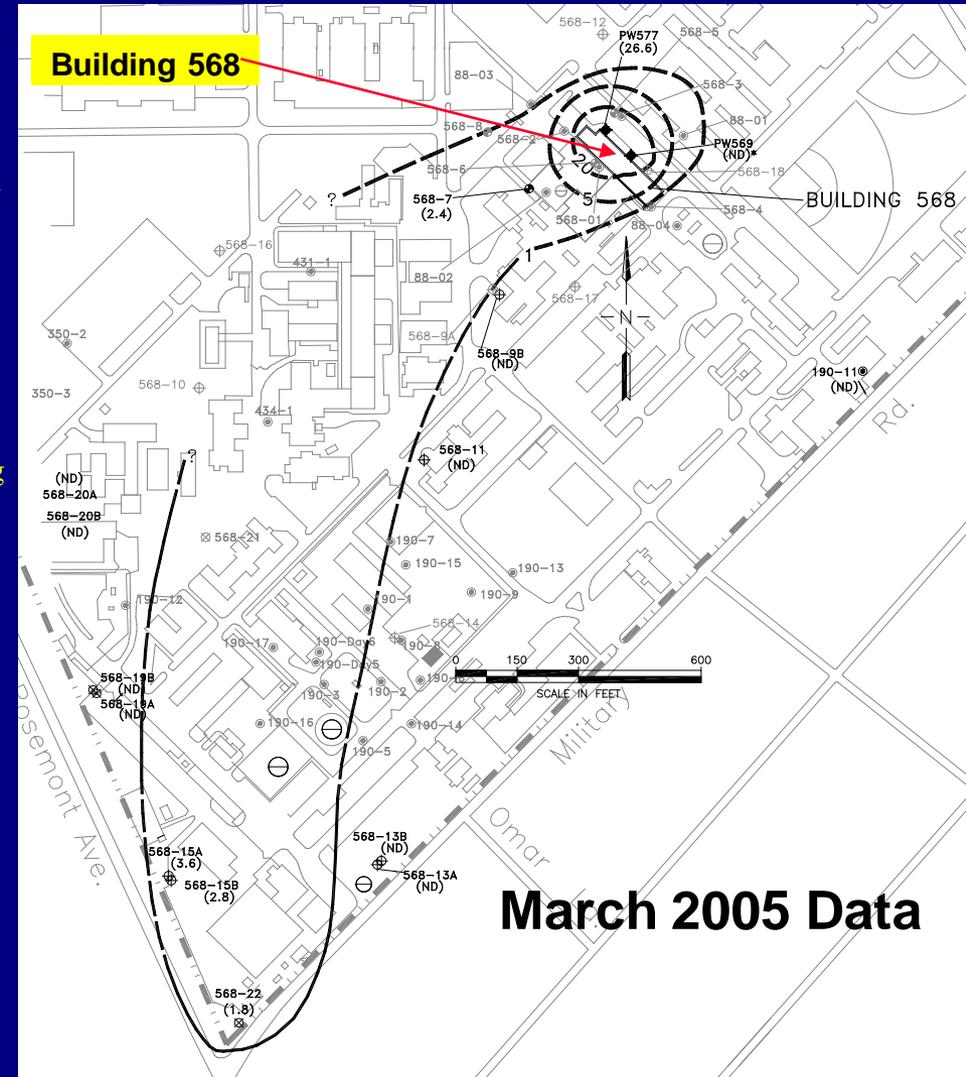
April 02
May 02
June 03
November 02
October 03
November 03
December 03
April 04
May 04
September 04
March 05
May 05
July 05

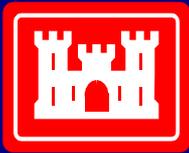


Area A - Long Term Groundwater Monitoring (LGTM)

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- Building 568 was constructed in 1953.
- TCE was reportedly spilled at the site due to chiller system spillage.
- The release of TCE could have occurred over a 17-year period from 1953 to 1970.
- An Army laboratory started pumping groundwater around building 568 in 1979.
- In the early 1990's elevated TCE was reported in groundwater around Building 568.
- An Remedial Investigation/Feasibility Study (RI/FS) determined that TCE above the MCL (5 micrograms per liter, ug/L) was leaving the boundary of Area A.
- A Decision Document, signed in 2001, requires (LTGM) and continued capture of TCE at Building 568.
- The most recent monitoring data (March 2005) indicates TCE was above the MCL of 5 ug/L only one extraction wells (26.6 ug/L).
- The distribution of contamination is virtually unchanged since LTGM commenced in 2002.
- The extraction well continues to depress groundwater in the TCE release area, even with 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.





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Fort Detrick RI/FS

Area B Update

DOCUMENTS COMPLETED

Completion Date

Engineering Evaluation/Cost Analysis (EECA) Area B-11 Chemical Waste Disposal Pits	(Feb 00)
EECA (Proposed Plan)	(May 00)
EECA (Decision Document)	(July 00)
Public Involvement and Response Plan	(July 00)
Chemical Oxidation Bench-Scale Test Work Plan	(Oct 00)
Photographic Analysis (USEPA EPIC Study)	(Mar 01)
Chemical Oxidation Bench-Scale Test Report (Final)	(July 01)
Area B Background and B-20 North Follow-On Work Plan	(Nov 02)
Area B Background Study Report	(April 04)
Area B-11 Close-Out Report	(Sep 04)
Area B- Grid, Skeet, Ammo, B-20 North Work Plans	(Dec 2004)
Area B-1 Site Close-Out Document	March 2005

DOCUMENTS PENDING

Estimated Completion Date

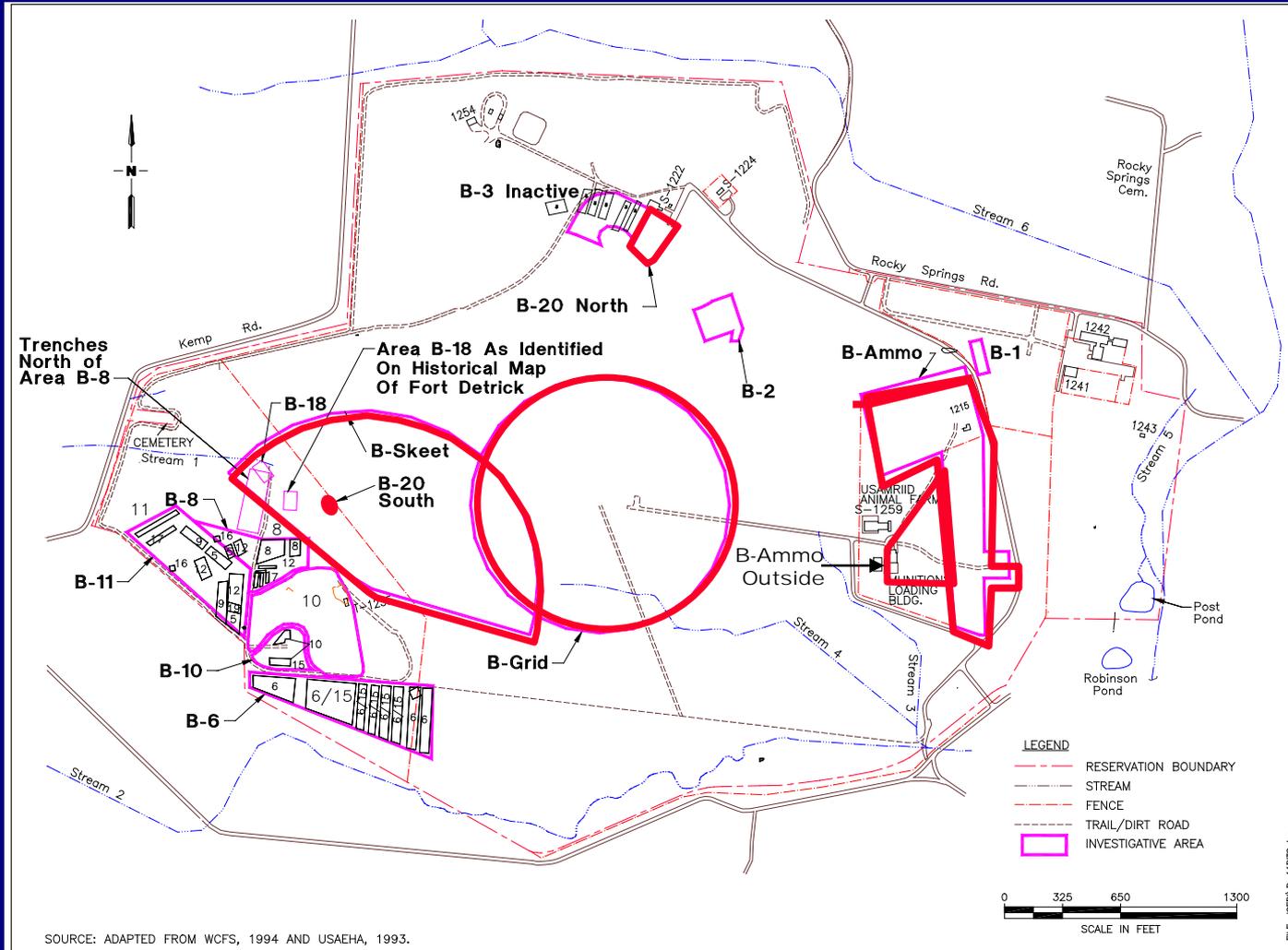
Area B- Grid, Skeet, Ammo, B-20 North Data Report/Closeout Doc.*	November 2005
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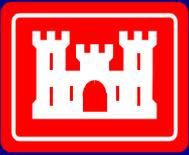
* Area B-Skeet requires additional work (detail follows)



Locations of Area B Close-Out Sites

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Area B-20 North Close-Out Status

Four (4) surface and subsurface soil samples were collected in the area of the former revetment

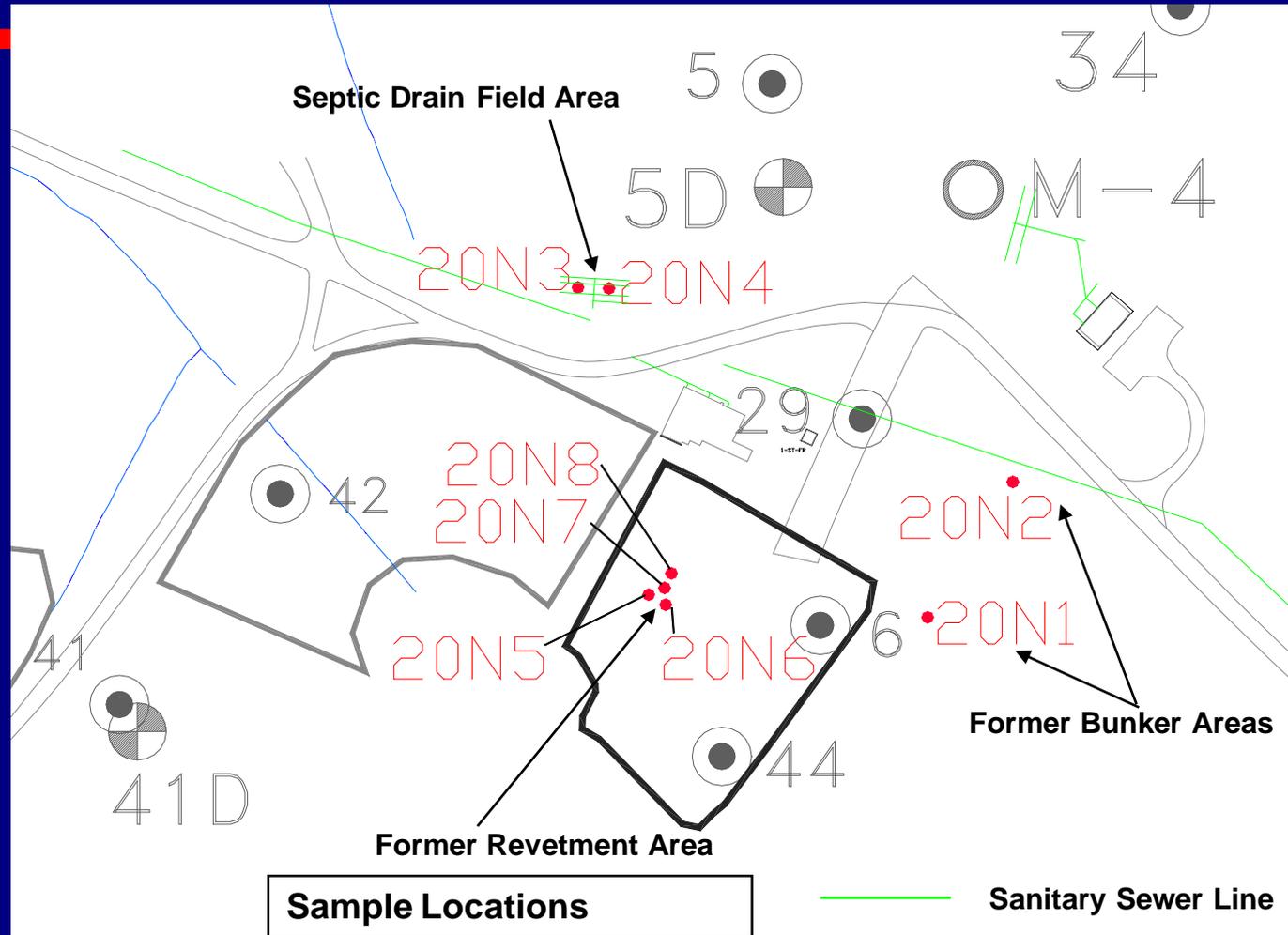
Two samples were collected from former bunker areas.

Two samples were collected from the bottom of the septic drain field that emanated from the vicinity of Building 1222 (reported to contain a photo lab).

Organic and inorganic chemicals were analyzed.

Preliminary assessment indicates no risk.

Draft Final Close-Out Document is under Review by MDE and EPA





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Area B-Ammo Close-Out Status – And Additional Background Sampling

Soil samples were collected from 5 locations.

Three of the sampling locations were placed in areas where potential debris to the northeast and east of Building 1221 was identified in aerial photography.

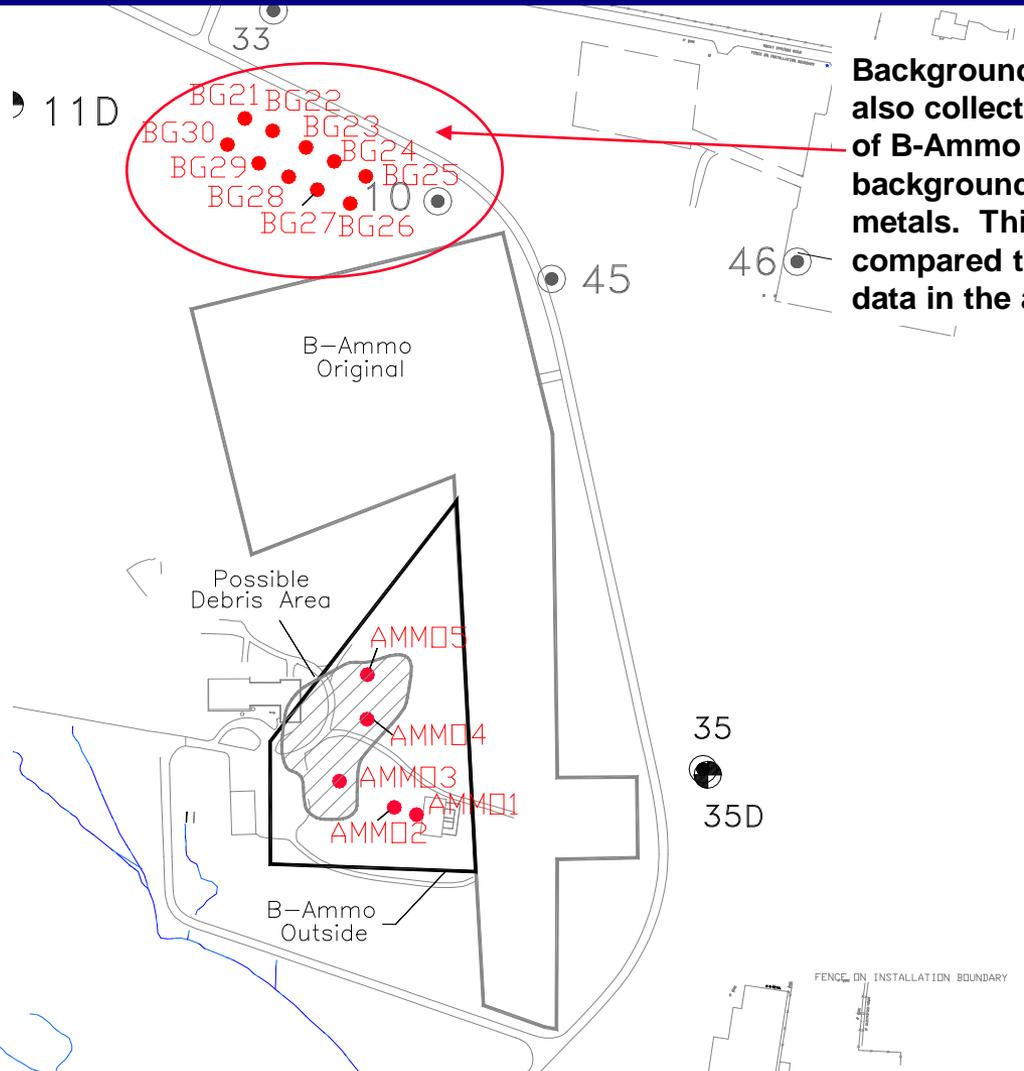
To evaluate potential releases from possible storage areas, the other two samples were placed between the three previously existing buildings identified in aerial photography.

Samples were analyzed for explosives and metals.

Preliminary assessment indicates no risk.

Draft Final Close-Out Document is under Review by MDE and EPA

B-Ammo Original had been previously assessed in 1995 sampling – No risk was determined.



Background samples were also collected in an area north of B-Ammo to complete the background data set for metals. This data was compared to B-Ammo metals data in the assessment.



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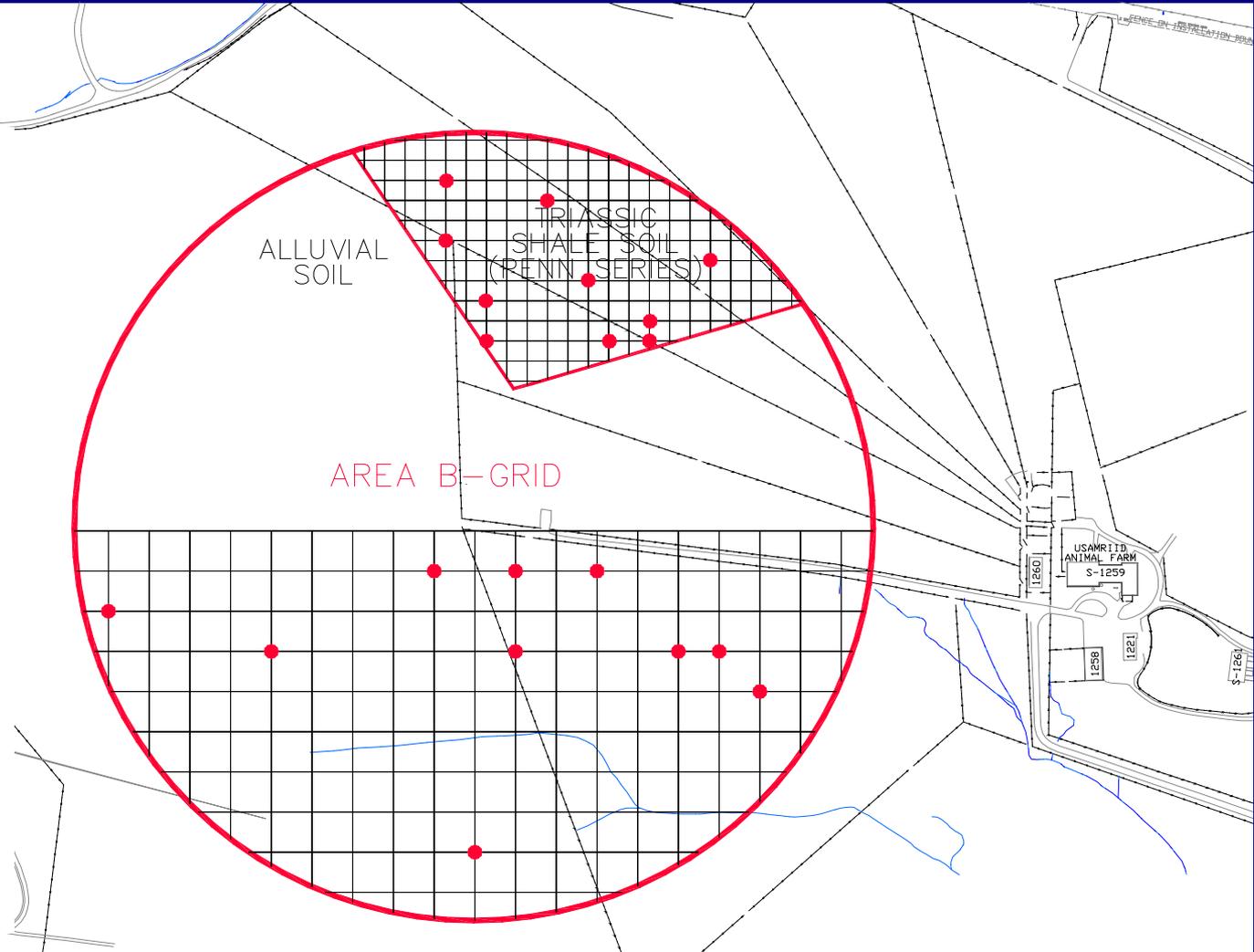
Area B-Grid Close-Out Status

Previous (1995) data from approx. 250 samples suggested potential elevated arsenic in Area B-Grid.

The twenty shallow sampling locations (red dots) were randomly selected for arsenic analyses.

Preliminary assessment indicates no risk.

Draft Final Close-Out Document is under Review by MDE and EPA





Fort Detrick RI/FS Area B Update

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COMPLETED TASKS SINCE LAST MEETING

Area B-Skeet Clay Pigeon Removal – And Confirmation Testing

PLANNED TASKS

None

Elevated levels of semivolatile organic compounds were observed at one location where clay-pigeon debris was also noted. Fort Detrick removed additional soil with clay pigeon debris and performed confirmation sampling prior to close-out reporting of B-Skeet.

Area is within residential standards for lead and PAH contaminants.

Area is being further evaluated for ecological risk associated with lead.

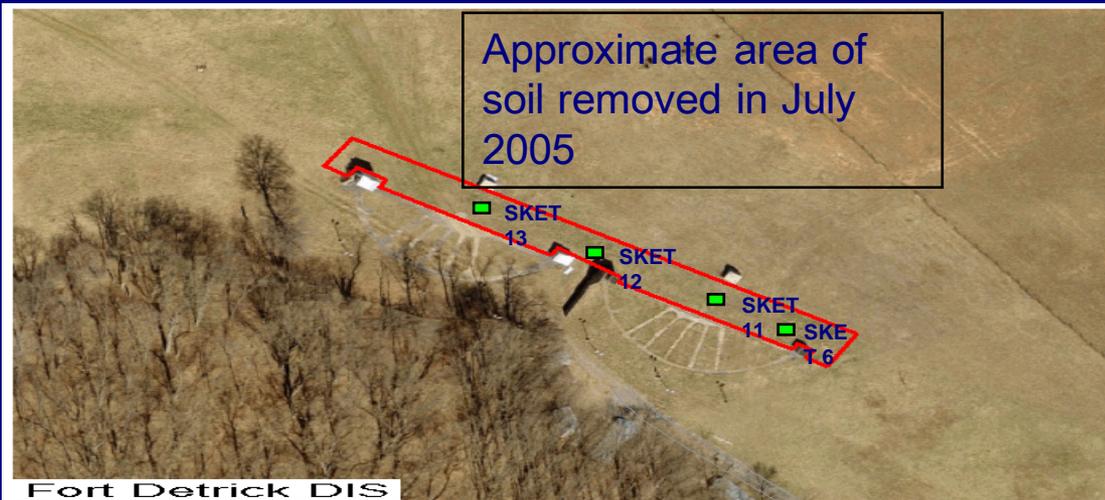
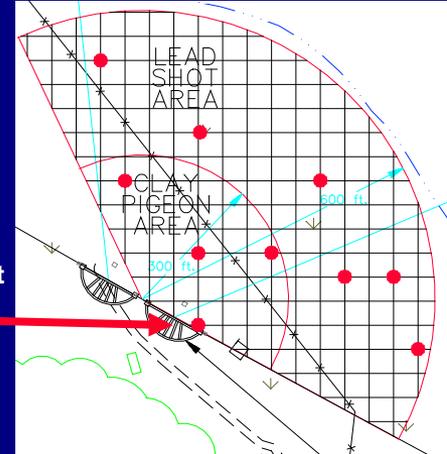


Photo Showing Area Scraped for Clay Pigeons





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Area C Update

- Final RI/FS and Proposed Plan have been approved.
- Final Decision Document is waiting signature and will be placed in Administrative record.

• Decision includes:

Former Ash Disposal Area;

- Land use restrictions including administrative access restrictions, physical barriers and/or signs,
- Maintenance of a database of information about the site, and
- Evaluation of changes in site conditions over time during five-year reviews.

No Further Action for

- Fill Area and Area Surrounding and Downwind of the Former Incinerator Stack,
- Treatment Plant Process Water (Covered by current NPDES Permit)
- Monocacy River and Unnamed Stream Sediment and Surface Water, and
- Area C Groundwater.

