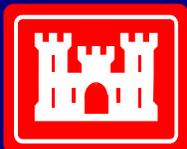


**US Army Corps
of Engineers
Baltimore District**

Fort Detrick Remedial Investigation/Feasibility Study

Restoration Advisory Board Meeting

**15 August 2000 7:30 PM
Fort Detrick, Frederick, Maryland**



US Army Corps
of Engineers
Baltimore District

Fort Detrick RI/FS

Area A Update

Completed

Revised RI (Final)

Date

Jun 00

Pending Schedule:

FS (Final)

PP (PROPOSED PLAN)

DD (DECISION DOCUMENT)

RD (REMEDIAL DESIGN)

RA (REMEDIAL ACTION)

CC (CONSTRUCTION COMPLETE)

LTM (LONG TERM MONITORING)

Completion Date

Aug 00

Sep/Oct 00

Winter 00

Apr 01

Jul 01

Oct 01

Nov 21



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Baltimore District

Fort Detrick RI/FS

Area B Update

DOCUMENTS

COMPLETED

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)

PENDING

RI (Draft Final)
RI (Final)
FS (Draft)
FS (Draft Final)
FS (Final)
PP
DD
PP
DD
RD
RA

Area B sites may be presented as separate documents. The partnering group is assessing the content for these documents.

Completion Date

Schedule being developed
Aug 00
Winter 01
Schedule being developed
Nov 00



**US Army Corps
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Baltimore District

Fort Detrick RI/FS

Area B Update

Completed and Planned Field Activities

COMPLETED

- Area B perimeter sampling completed June 00
- Residential Well Sampling requested by residents during and after proposed plan meeting completed Aug 4, 00

PLANNED

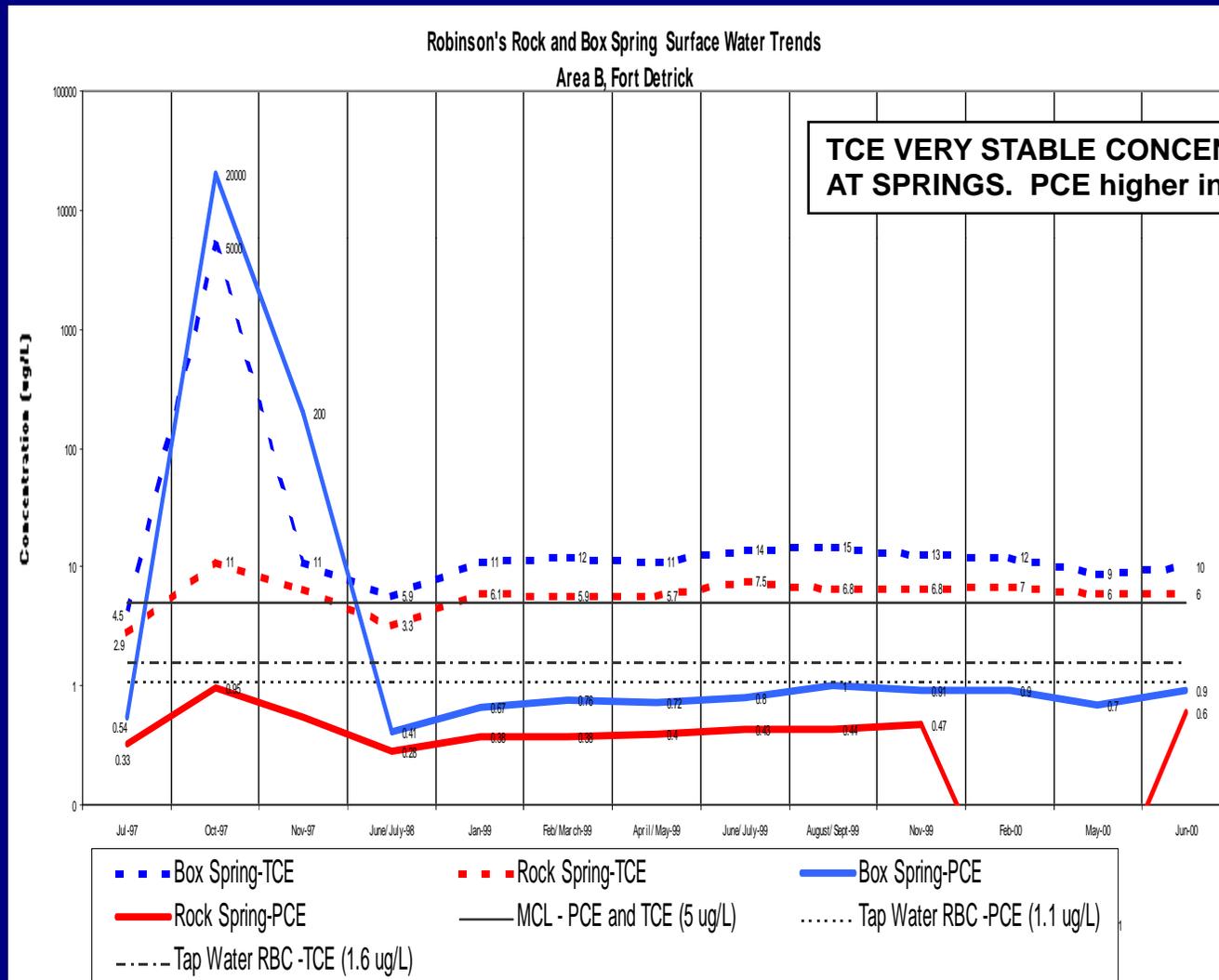
- Residential Well Survey (currently on-going)
- Well 57D Rehabilitation - Schedule being developed
- Additional periodic residential and on-post well and surface water sampling - same schedule as 1999
- Dye trace study - Schedule being developed (December 00 - June 01)
- Dye trace study pre-tasks to include:
 - Geological Mapping (on-going, Complete Aug 00)
 - Stream Gauging (2 rounds, 1 in Sep 00, 1 in Spring 01)
 - Surface Geophysics (Aug/Sep 00)
- Water Treatment System (Krantz) - ASAP - Currently coordinating
- In-situ Chemical Oxidation Pilot (Bench-Scale - Fall 00, Field - Summer 01)
- Assessing Lead and Clay Pigeon Removal at Skeet Range (TBD)



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Surface Water Sampling Data - PCE and TCE Robinson's Box and Rock Springs



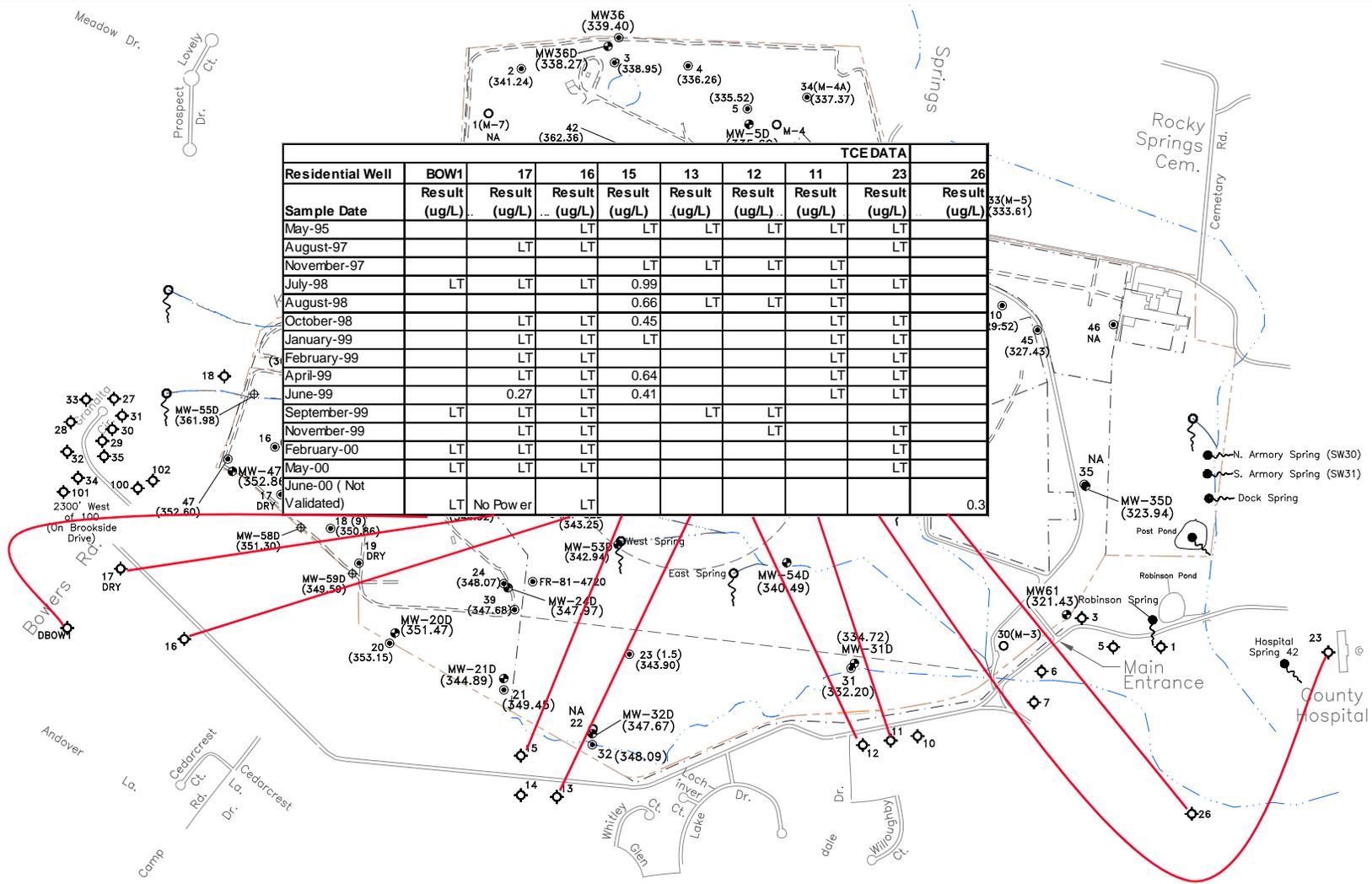


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RESIDENTIAL BOUNDARY WELL

TCE SAMPLING DATA



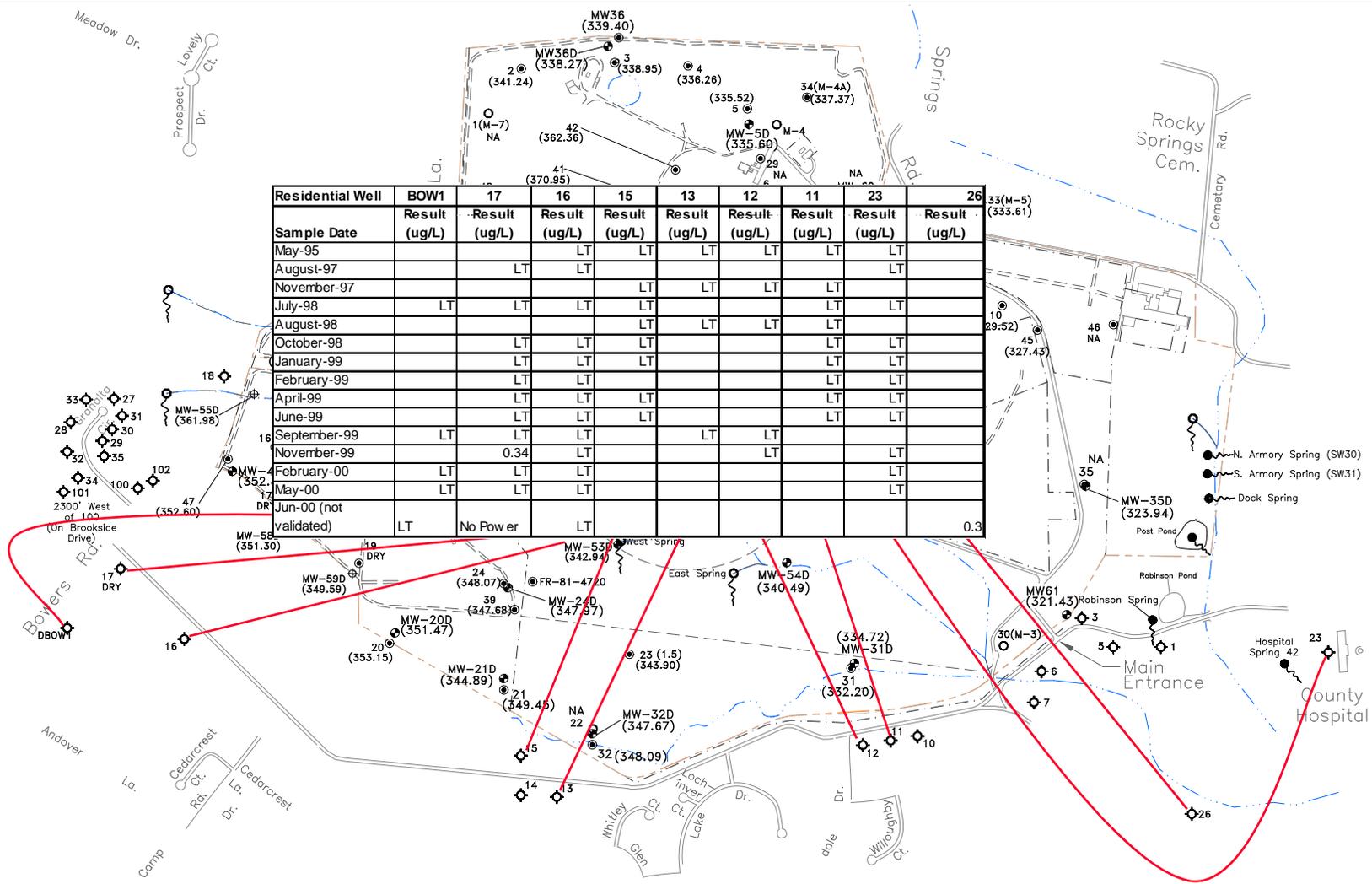


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Fort Detrick RI/FS

RESIDENTIAL BOUNDARY WELL

PCE SAMPLING DATA



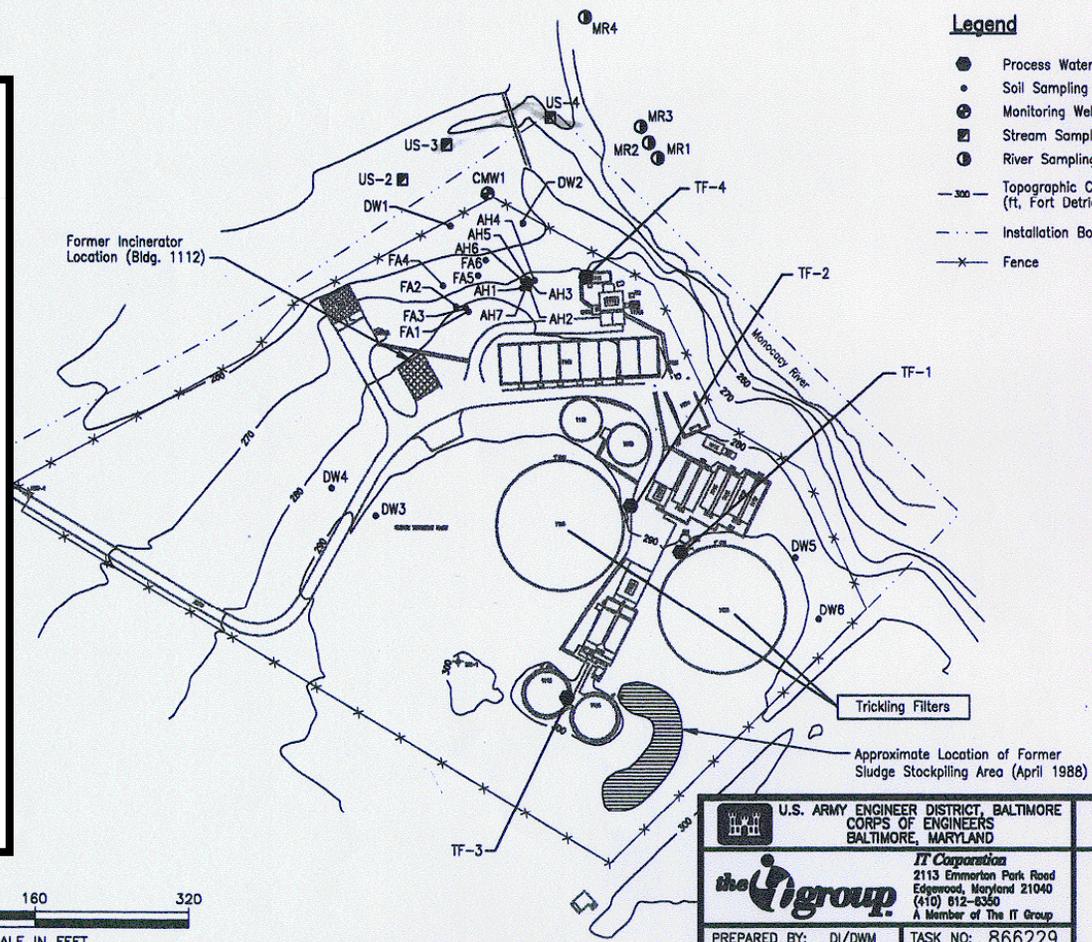


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Fort Detrick Area C RI

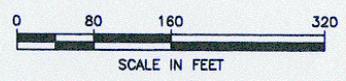
Sampling Locations

- The Following Areas Were Sampled:**
- Background
 - Ash Disposal Area
 - Fill Area
 - Area of Former Incinerator Stack
 - Area Downwind of Stack
 - Unnamed Stream (North)
 - Monocacy River
 - Plant Influent/Effluent and Tricking Filters for Mercury



Legend

- Process Water Sampling Location
- Soil Sampling Location
- ⊕ Monitoring Well Location
- ▣ Stream Sampling Location
- ⊙ River Sampling Location
- - - Topographic Contour (ft. Fort Detrick Datum)
- - - Installation Boundary
- × Fence



U.S. ARMY ENGINEER DISTRICT, BALTIMORE CORPS OF ENGINEERS BALTIMORE, MARYLAND		EXHIBIT 5-10 SAMPLING LOCATIONS WASTEWATER TREATMENT PLANT PROCESS WATER FT. DETRICK FREDERICK, MARYLAND
IT Corporation 2113 Emmerton Park Road Edgewood, Maryland 21040 (410) 612-6360 A Member of The IT Group		
PREPARED BY: DI/DWM	TASK NO: 866229	
CHECKED: GJ	ICF DWG NO:	
DATE: 3-8-00	EX5-10	



**US Army Corps
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Baltimore District

Fort Detrick Area C RI

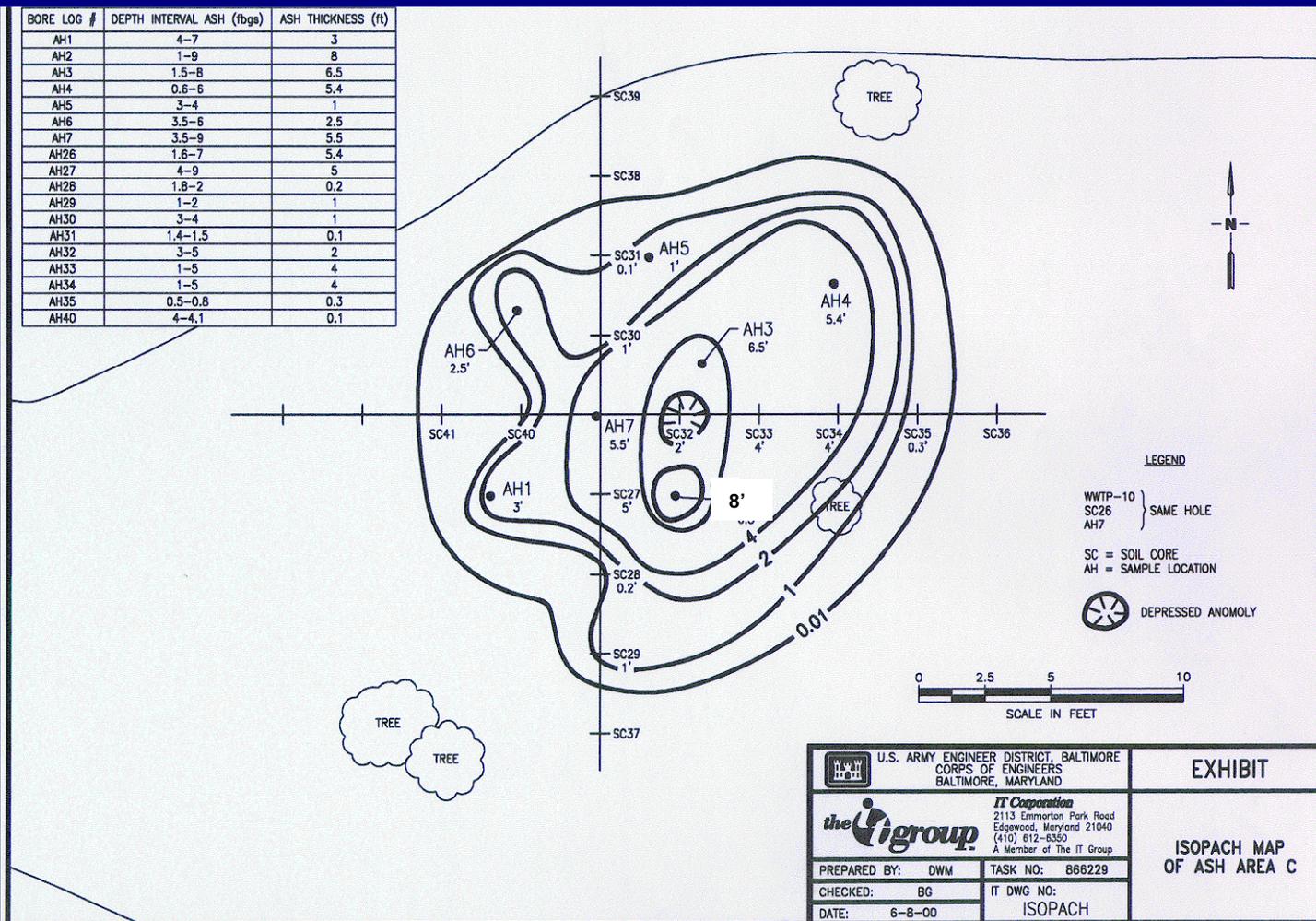
Preliminary Results (Full Validation Required)

- One Ash sample with Dioxin/Furan above Industrial RBC (50.1 ppt, RBC 38 ppt). Others lower.
- Analysis of Arsenic on-going
- All mercury data from Trickling Filters and into and out of plant below AWQC (0.77 ug/L). Discharge to river TF-4 concentrations (0.14 ug/L) about 1/2 of influent concentrations (0.38 ug/L). Concentrations in trickling filters almost identical to influent concentrations.
- Groundwater sample (new well "CMW1") "clean"
- Dioxin Furans very low (below industrial screening levels) in unnamed stream, former stack area, and area downwind of former stack area.
- Entire ash disposal area was not delineated because a small amount (inch or two dispersed irregularly) of ash was found running into area of operator's building (larger area than anticipated).



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Fort Detrick Area C RI Ash Delineation





**US Army Corps
of Engineers**
Baltimore District

Area C Schedule

Deliverable

Final Area C RI

Final Area C FS

Final Proposed Plan

Final Decision Document

Schedule

Dec 00

April 01

TBD

TBD