

**US Army Corps
of Engineers
Baltimore District**

Fort Detrick Remedial Investigation/Feasibility Study

Restoration Advisory Board Meeting

**20 January 1999 7:30 PM
Fort Detrick, Frederick, Maryland**



**US Army Corps
of Engineers**
Baltimore District

Fort Detrick RI/FS

Project Status

DOCUMENTS

Currently in Production

- **Area B RI Draft Final - MDE Comments Finished, Final Pending March 1999**
- **Area A FS - Final July 1999**
- **Area B FS - In Preparation, Draft March 99, Final March 2000**

Other Scheduled Documents (Finals)

- **Area A Proposed Plan - July 2000**
- **Area A Decision Document (DD) - January 2001**
- **Area B Proposed Plan (No-Action Sites) - December 2000**
- **Area B DD (No-Action Sites) - July 2001**
- **Area B Proposed Plan (Area B-11 and Groundwater) - April 2001**
- **Area B DD (Area B-11 And Groundwater) - September 2001**



**US Army Corps
of Engineers**
Baltimore District

Fort Detrick RI/FS

RI/FS CURRENT WORK STATUS

NEW WORK

- **Area C - Wastewater Treatment Plant Expanded Site Investigation (ESI)**
 - **Currently finalizing Work Plan**
 - **Sampling sludge drying bed sand, sludge stockpiling area, trickling filters**

ON-GOING WORK

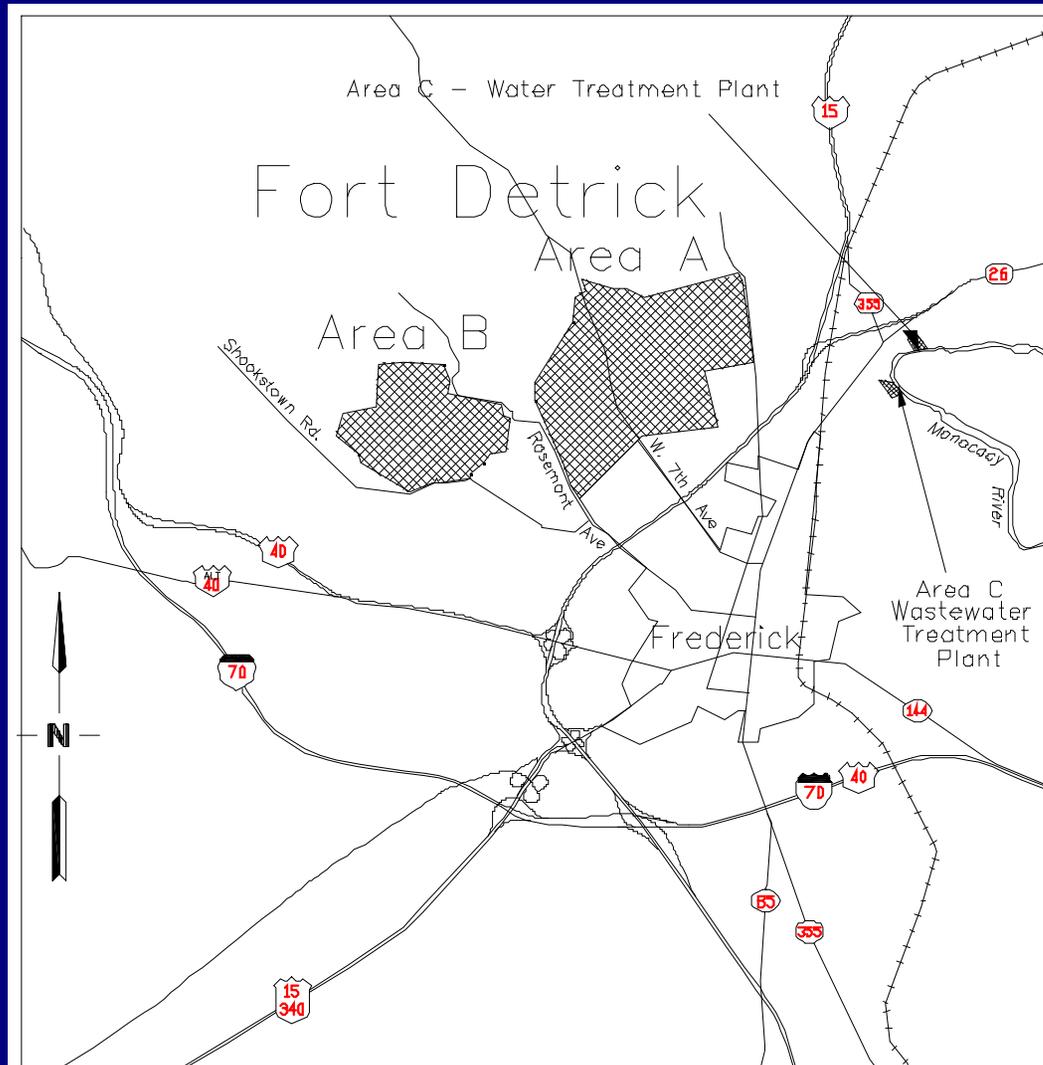
- **Finalizing Work Plan for Dye Trace Study**
- **Perimeter sampling completed January 7, 1999**
- **Quarterly sampling scheduled February 22 - March 5, 1999**
- **Completed First Auto Sampler Event (Robinson Box Spring) November 1998**
- **ITR recommendation/comment review**
- **Completed well survey along Shookstown Road**



**US Army Corps
of Engineers**
Baltimore District

Fort Detrick

Area C - Location





**US Army Corps
of Engineers**
Baltimore District

Fort Detrick

Wastewater Treatment Plant - Sampling Program

- **Sample sand in sludge drying beds for presence of PCB's which have been detected previously in sludge**
- **Sample soil under sludge drying beds**
- **Sample former sludge staging area**
- **Sample area of trickling filters where mercury seals were once used**
- **Sample background locations**

All sites (with exception of trickling filters) will be screened for full suite of contaminants.

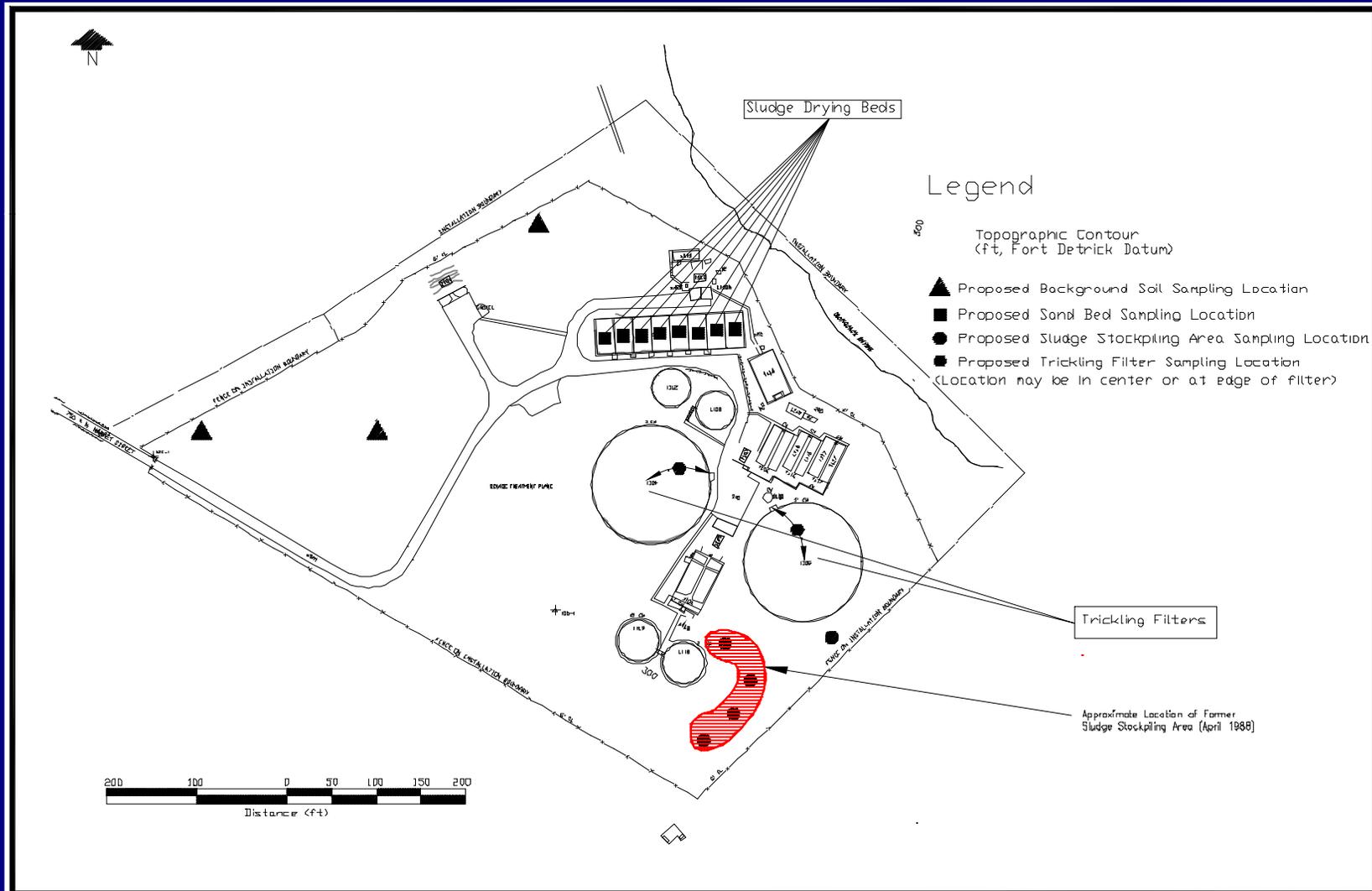
All samples will be screened for radiation due to low-levels of beta radiation which were previously detected in sludge.



US Army Corps
of Engineers
Baltimore District

Fort Detrick

Area C - Wastewater Treatment Plant Sampling Locations

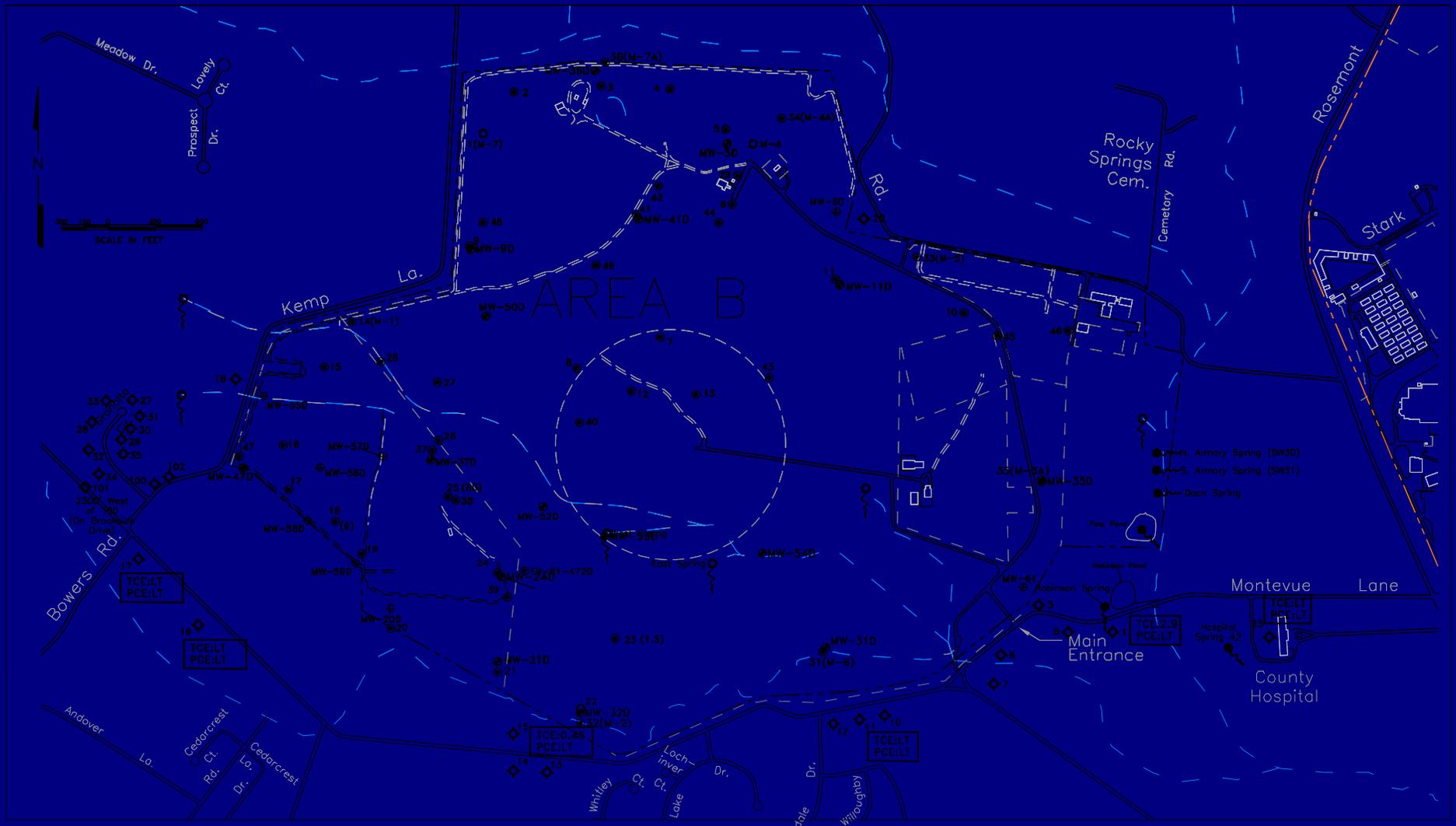




US Army Corps
of Engineers
Baltimore District

Fort Detrick RI/FS

Residential Well Sampling Results October 1998



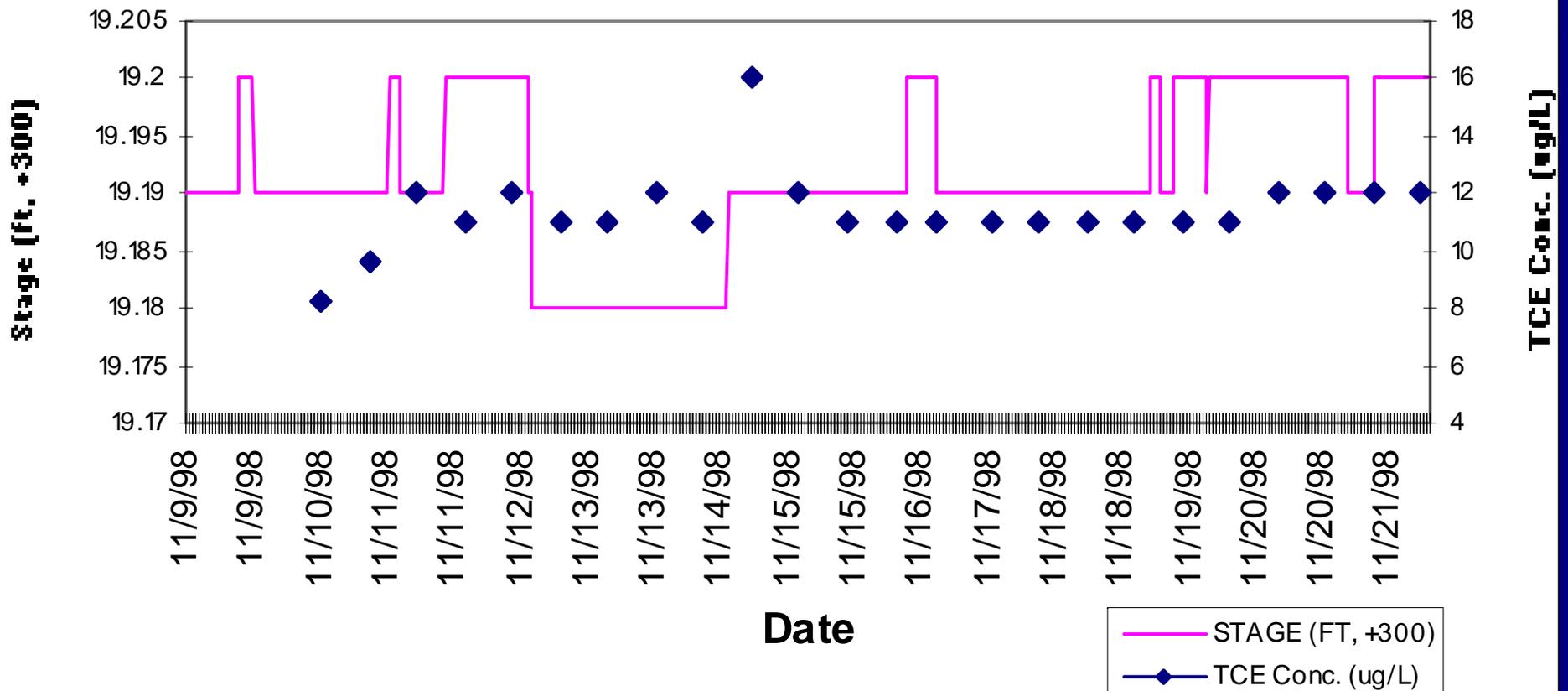


US Army Corps
of Engineers
Baltimore District

Fort Detrick RI/FS

Robinson Box Spring - Contamination Assessment Preliminary Data

Stage and TCE Data - Robinson Box Spring



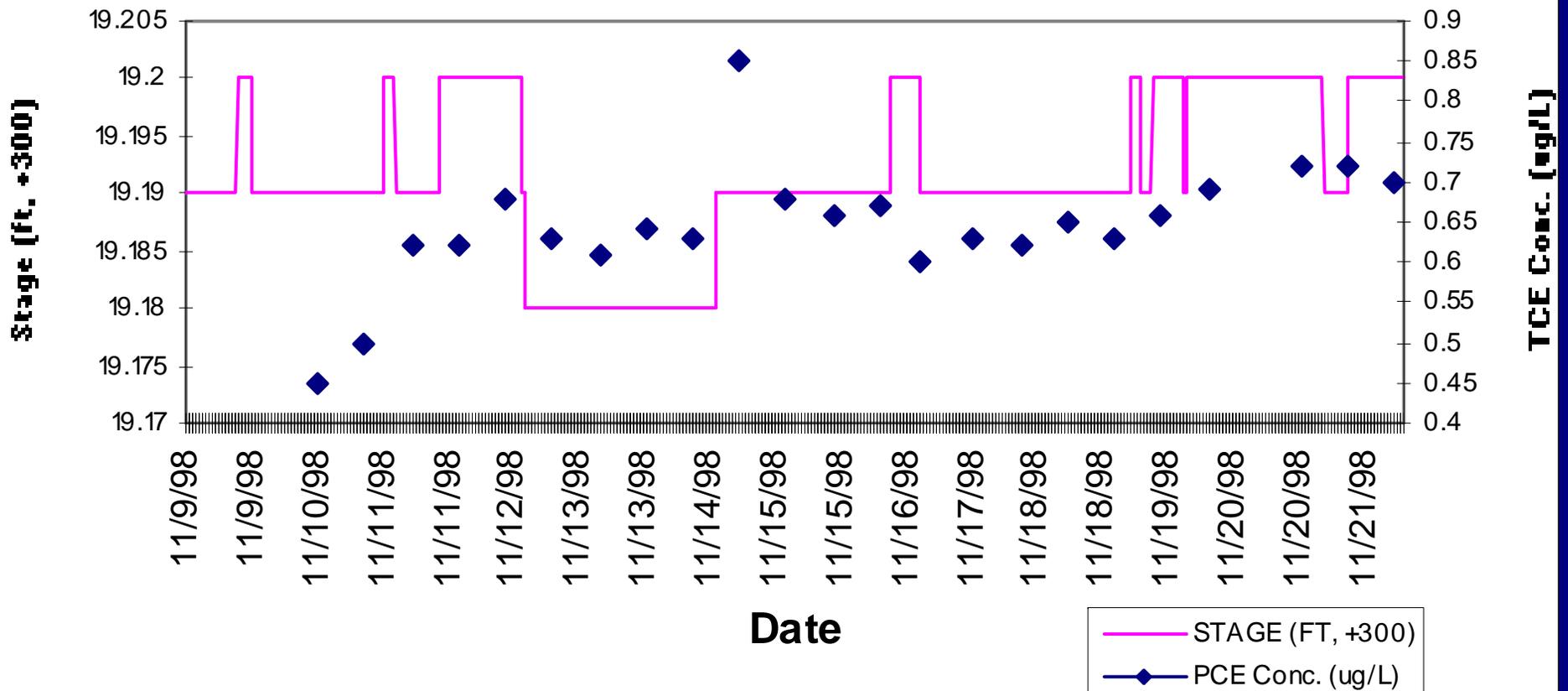


US Army Corps
of Engineers
Baltimore District

Fort Detrick RI/FS

Robinson Box Spring - Contamination Assessment Preliminary Data

Stage and PCE Data - Robinson Box Spring





**US Army Corps
of Engineers**
Baltimore District

Fort Detrick RI/FS

Internal Technical Review (ITR) - Overview

- December 1, 1998 - Area B-11 background discussion and site visit
- December 2, 1998 - Area B-11 and Groundwater RI data presentation, evening RAB discussion
- December 3, 1998 - ITR Briefing

ITR Preliminary Comments, December 4, 1998:

- There exist legal drivers for action (i.e. promulgated MCLs, discharge to surface waters of the State)
- Two basic release mechanisms exist - 1) low level which may be released over a long time and,
2) high level which is released over short intervals (vapor transport may be significant)
- Near-Term Actions - Conduct FFS, gather more data, assess soil vapor extraction as a release monitoring system as well as clean-up option
- Long-Term Actions - Premature to determine with present data



**US Army Corps
of Engineers**
Baltimore District

Fort Detrick RI/FS

Shookstown Road Well Survey

- Nine responses to surveys
- Two locations found that can be sampled, three which need to be field checked

ADDRESS	RESIDENT	WELL PRESENT	FUNCTIONAL	SAMPLEABLE	WELL INFO
1699 SHOOKSTOWN	BARGIS	YES	NO	YES	
1691 SHOOKSTOWN	BARTER	YES	NO	NO	HAND DUG
1675 SHOOKSTOWN	VERRECCHIA	YES	NO	NO	SHALLOW
1673 SHOOKSTOWN	CLITES	YES	NO	NO	
1679 SHOOKSTOWN	VACANT	YES	YES	YES	HAND DUG
1667 SHOOKSTOWN	HARTMAN	NO	NA	NA	
1669 SHOOKSTOWN	HARTMAN	YES	NO	NEED TO CHECK	DEEP WELL
1671 SHOOKSTOWN	MEYERS	YES	NO	NEED TO CHECK	
1653 SHOOKSTOWN	BARRIMOND	YES	NO	NEED TO CHECK	