



RAB Update

2016 Five-Year Reviews for Fort Meade 1988 Base Realignment and Closure Restoration Sites

16 May 2016



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Project Team and Stakeholders



- **U.S. Army (Army) – Office of the Assistant Chief of Staff for Installation Management, Base Realignment and Closure (BRAC) Division**
- **U.S. Army Corps of Engineers (USACE) - Baltimore District**
- **Fort George G. Meade**
- **U.S. Environmental Protection Agency (EPA) – Region 3**
- **Maryland Department of the Environment (MDE)**
- **U.S. Fish and Wildlife Service (FWS)**
- **Anne Arundel County Tipton Airport Authority**
- **Ft Meade Restoration Advisory Board (RAB)**





Why Conduct 5YRs?



Section 121 of CERCLA requires remedial actions resulting in hazardous substances, pollutants, or contaminants remaining at the site be subject to a Five-Year Review. The purpose of the five-year review is to evaluate the implementation and performance of the remedy to determine whether the remedy remains protective of human health and the environment. For federal facility sites, the lead agency conducts the review, prepares the reports, and submits the report to stakeholders for review and comment. The lead agency is responsible for ensuring that the recommendations and follow-up actions in the report are completed.



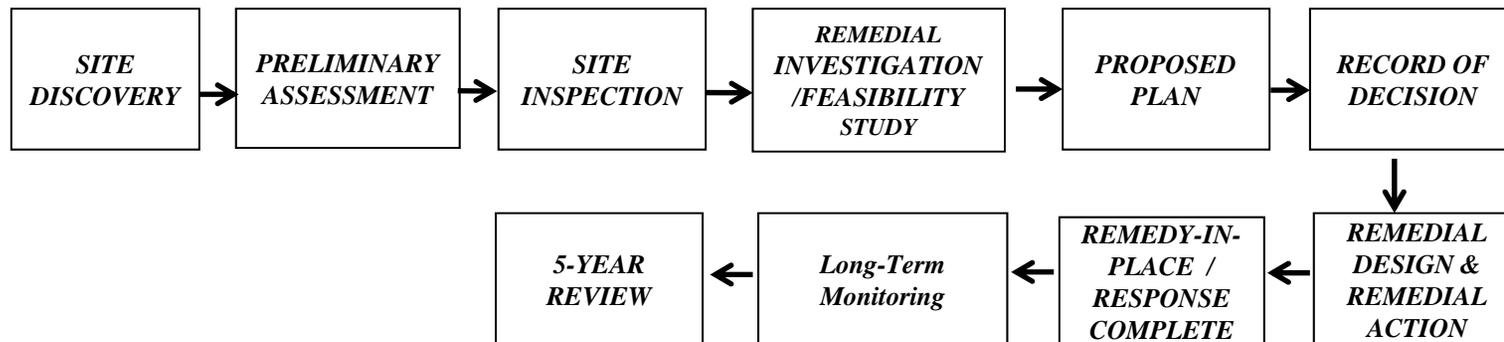
<https://www.youtube.com/watch?v=VguoeVT4Fjl>

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Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Process



<https://www.epa.gov/superfund/fiveyearreview>





Fort Meade Property Transfer



- Prior-Transfer: approximately 13,500 acres
- BRAC 1988
- 8,398 acres transferred to DOI by legislative mandate (1991-1993)
- 100 acres transferred to Architect of the Capitol by legislative mandate (1993)
- 348 acres transferred to Anne Arundel County Tipton Airport Authority (2001)





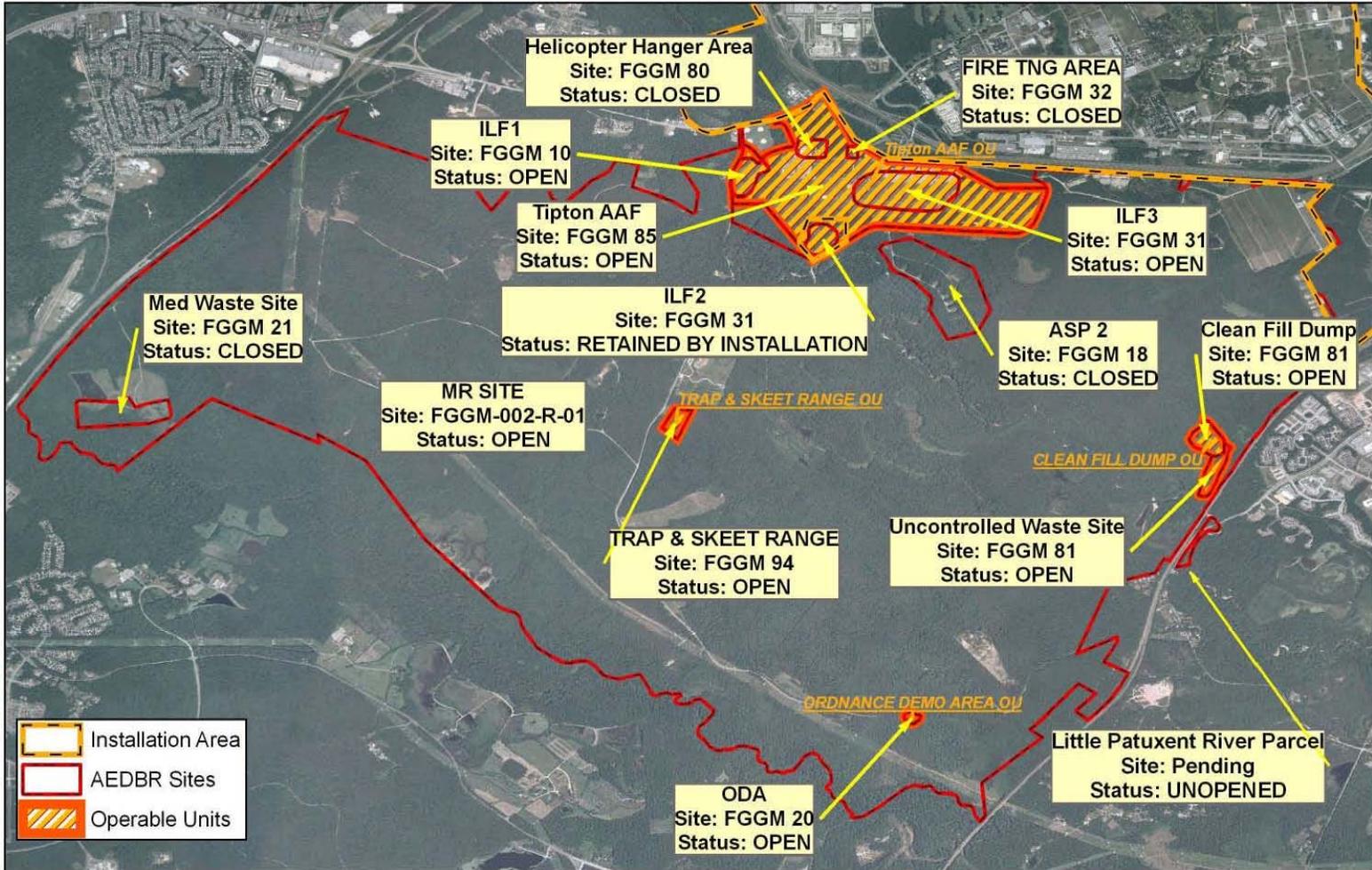
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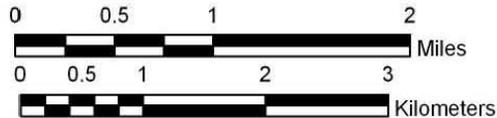
TITLE	Fort George G. Meade Property Boundaries Map	
	200 Orchard Ridge Drive Galthersburg, MD 20878	
	Figure 1	

FT George G. Meade

Environmental Restoration Sites: BRAC Parcels



Created by:
Office of the Assistant Chief of Staff for Installation Management (OACSIM)
Base Realignment and Closure Division (BRACD)
Data Source: Geographic Information System Repository (GISR) & DAIM-ODD



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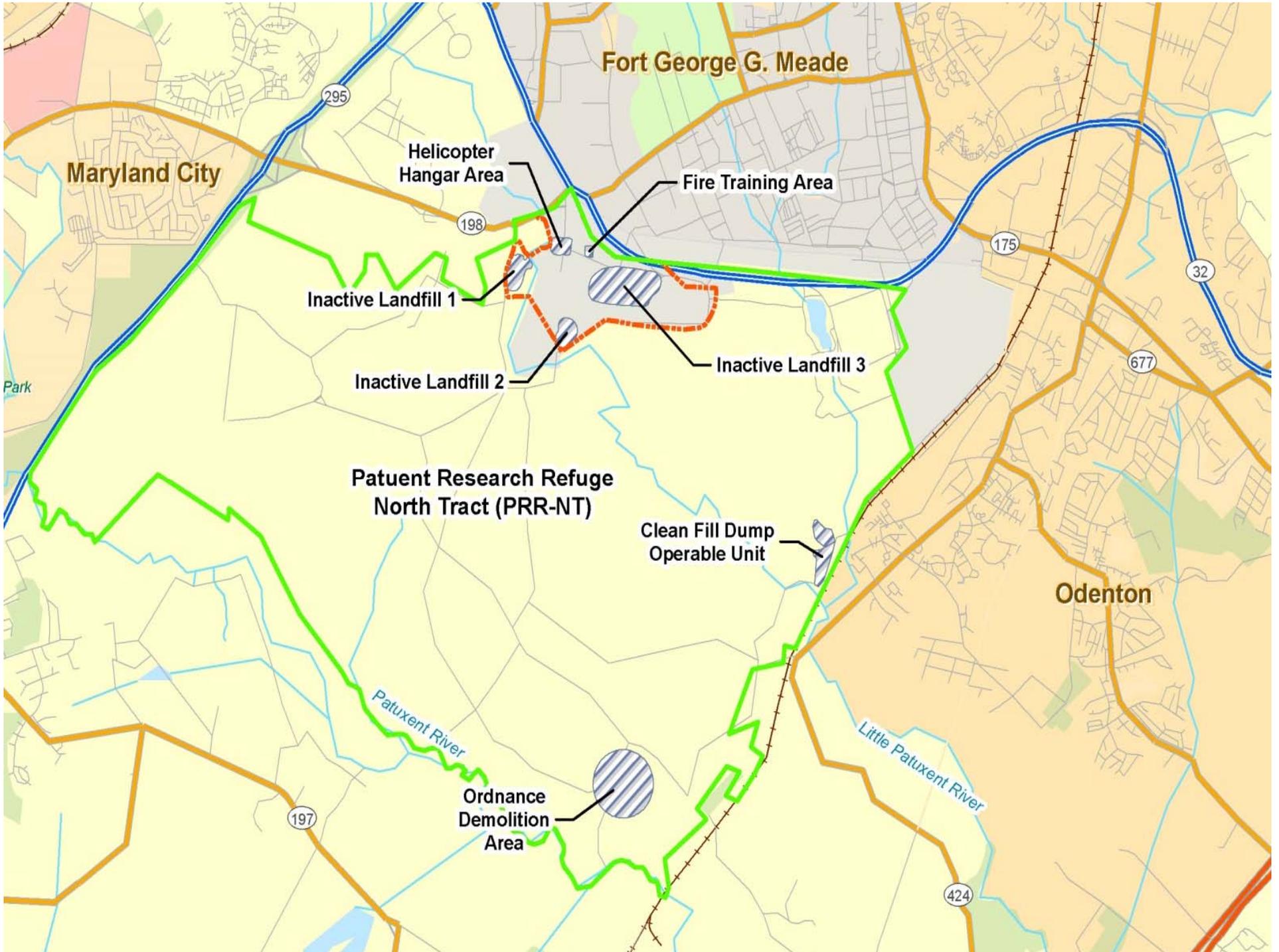


Legacy BRAC Operable Units (OU) 2016 Five-Year Reviews (5YRs)



- Tipton Airfield Parcel
 - Groundwater OU LTM (FGGM 10 & 31)
 - MEC OU LTM (FGGM 85)
 - Inactive Landfills 1, 2 and 3
 - Little Patuxent River MEC Sweep
- DOI Property
 - Ordnance Demolition Area (FGGM 20)
 - Clean Fill Dump & Uncontrolled Waste Site (FGGM 81)







Tipton Airfield Groundwater OU Sites FGGM-10 and FGGM-31



- **Background**

- COCs include VOCs and metals
- 1998 and 1999 RODs; NFA for soil
- Long-term groundwater monitoring
- GW operable unit includes airfield sites (HHA, FTA) and 3 inactive landfills (IALs)

- **Status**

- Annual LTGM until 2018 (estimated)
- 2nd 5-yr review completed 2011





Landfills Background

- **Inactive Landfill No. 1**
 - ~16 acres
 - Unlined sanitary landfill from 1950 to 1964
 - Ordnance clearance to 4-feet (1998-1999)
 - Un-cleared area (~5.5 acres) covered with 3-foot thick safety cover.
- **Inactive Landfill No. 2 (retained by FGGM)**
 - Initially a borrow area (WWII timeframe)
 - Subsequently used for rubble disposal
 - Ordnance clearance not conducted due to large amount of rubble debris and wetland conditions
 - Enclosed by a fence encompassing ~20 acres
- **Inactive Landfill No. 3**
 - ~78 acres
 - Initially a borrow area
 - 1940s and 1950s used as sanitary and leaf dump
 - Much removed during 1963 airfield construction



Tipton Airfield Parcel



TAP GW OU LTM MWs



**FIGURE 3-3
 MONITORING WELL LOCATIONS,
 TIPTON AIRFIELD PARCEL**



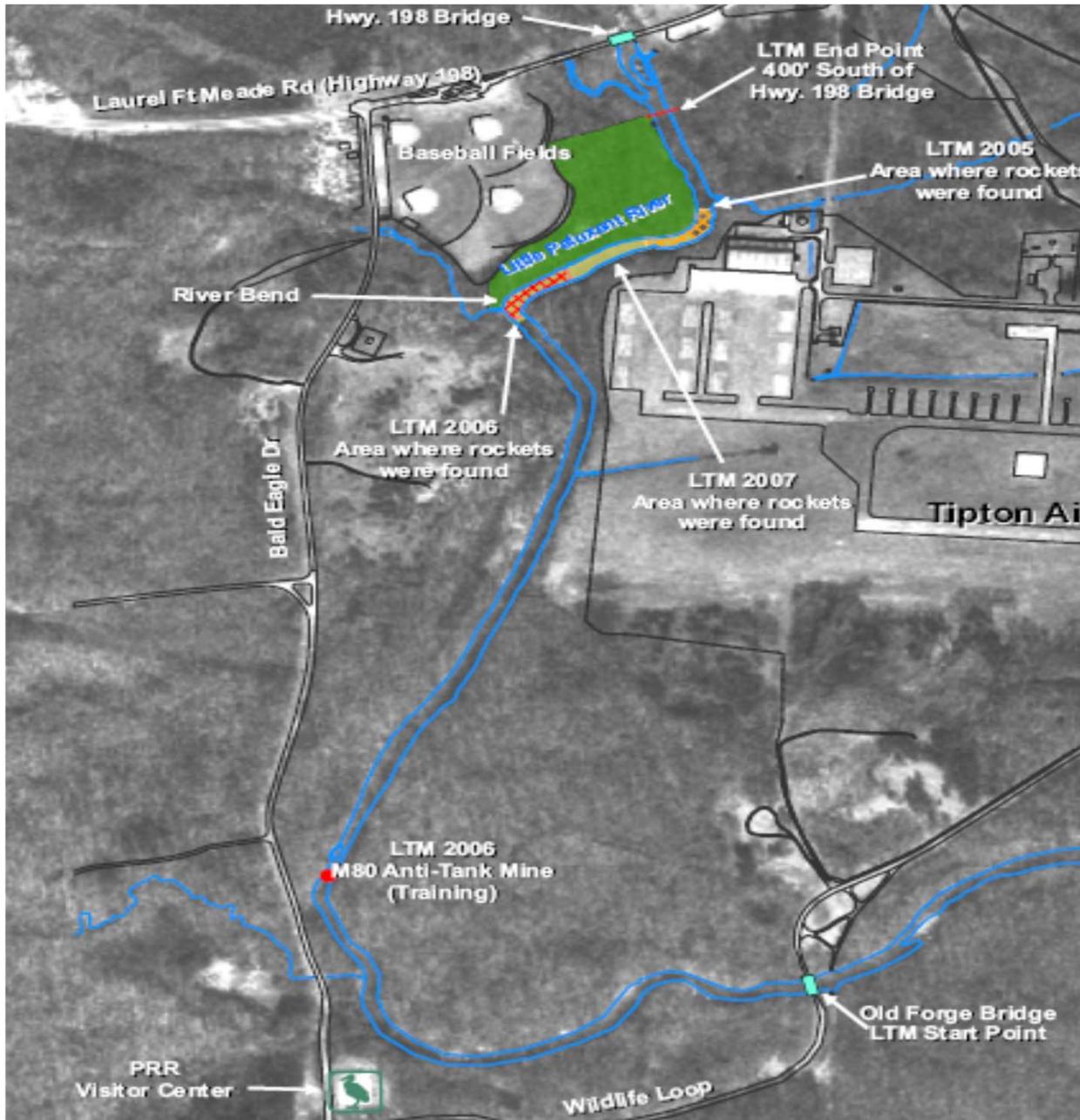
Tipton Army Airfield OU (FGGM-85)



- **Various ordnance-related surveys & removals**
 - 1995 through 1997 Ordnance Clearance
 - All accessible areas searched to 4-foot depth
 - Excluded: Inactive landfill areas, paved surfaces, and wetlands
 - 1,548 ordnance items and 33 tons of rubble debris recovered
 - 1998 ordnance removal from airfield swales previously flooded (420 items recovered)

- **Status**
 - Annual visual inspections of IALs soil safety covers
 - Instrument assisted MEC sweep of IAL 3 every 5 years
 - Annual MEC Sweeps of a portion of the Little Patuxent River





Little Patuxent River Sweep Segment



Typical Munitions Debris



Picture 2-9: Rocket Motors (Munitions Debris)



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Ordnance Demolition Area GW OU FGGM-20



- **Background**

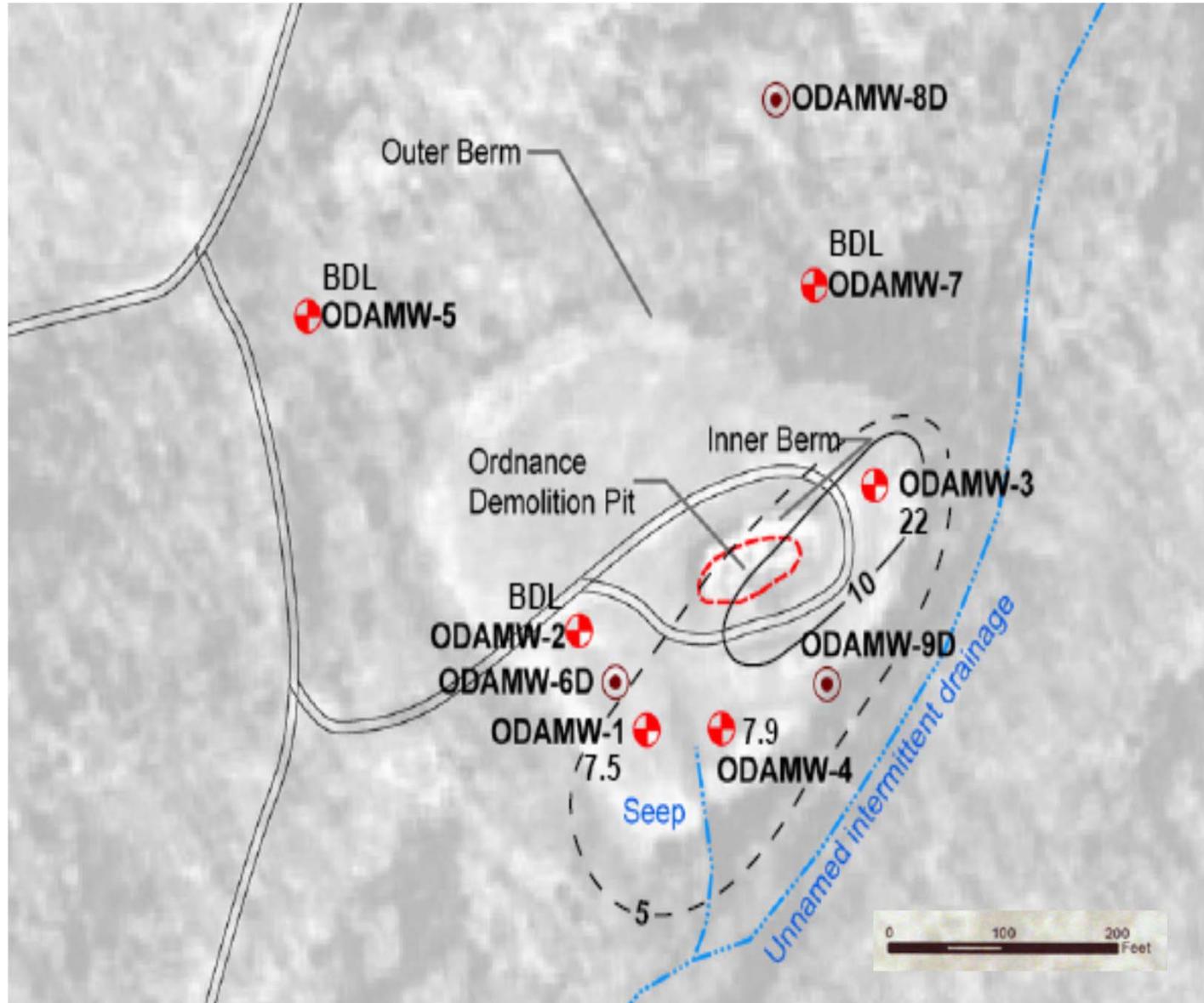
- 2.5-acre site built in early 1960s, operations ended in 1980s (est.)
- Explosive limit - 5 lbs (target and donor)
- GW has low levels of VOCs, cadmium, RDX, TNT, DNT
- 2011 ROD selected Monitored Natural Attenuation (MNA) annual with LTGM and GW restriction LUCs

- **Status**

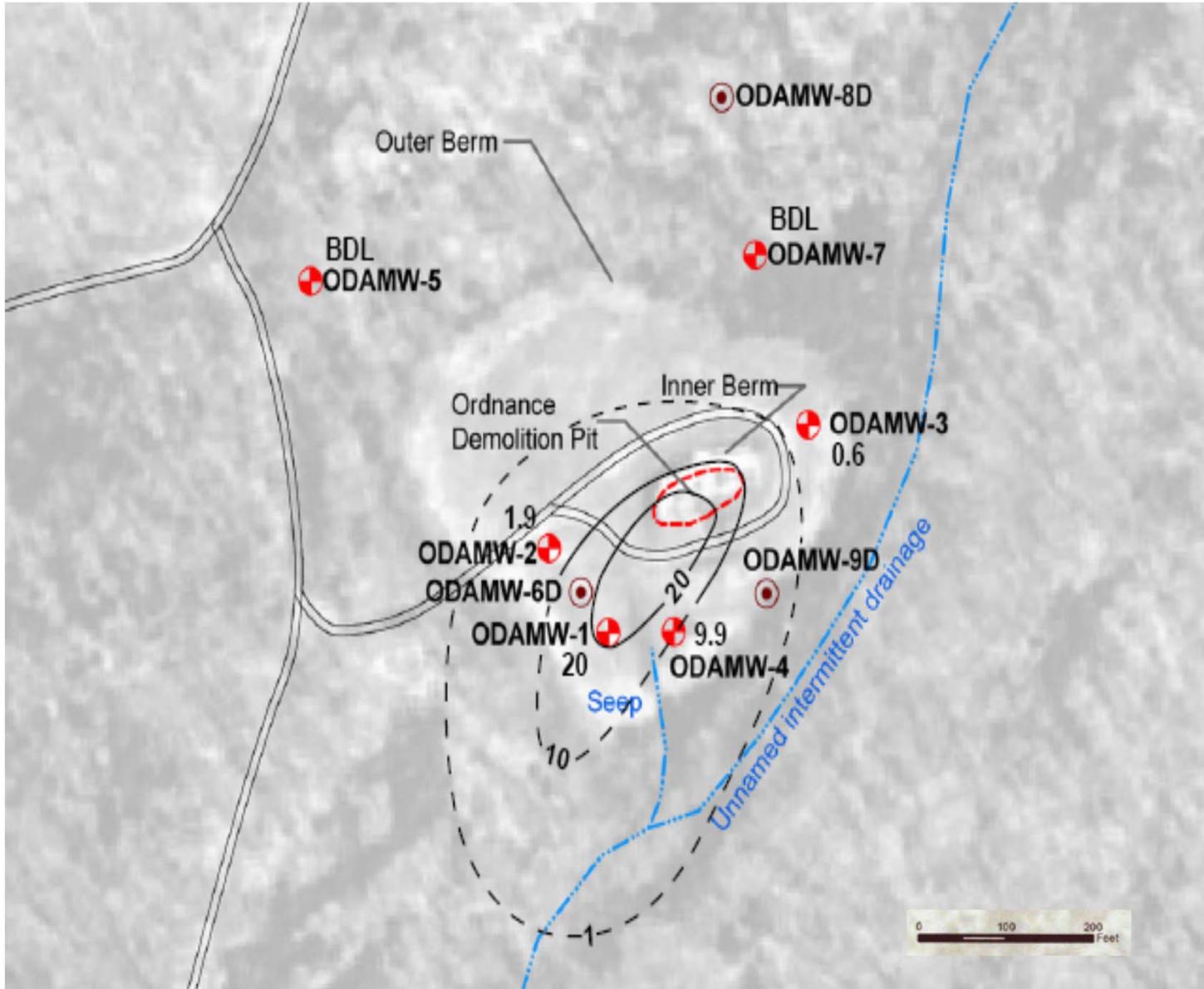
- Annual groundwater LTM – ongoing to 2020 (estimated)



Ordnance Demolition Area PCE Contours



Ordnance Demolition Area RDX Contours





Clean-fill Dump Groundwater OU FGGM-81



- **Background**

- Received construction and residential debris from 1972 to 1985
- Sept 2000 Record of Decision (LTGM and GW restriction LUCs)
- Groundwater Operable Unit covers approximately 16 acres
- Site includes the Uncontrolled Waste Site
 - Debris removed FY08 and FY09
- GW OU - Low levels of CVOCs and metals

- **Status**

- Annual LTGM through 2028 (estimate)
- 2nd 5-year LTGM review completed in 2011



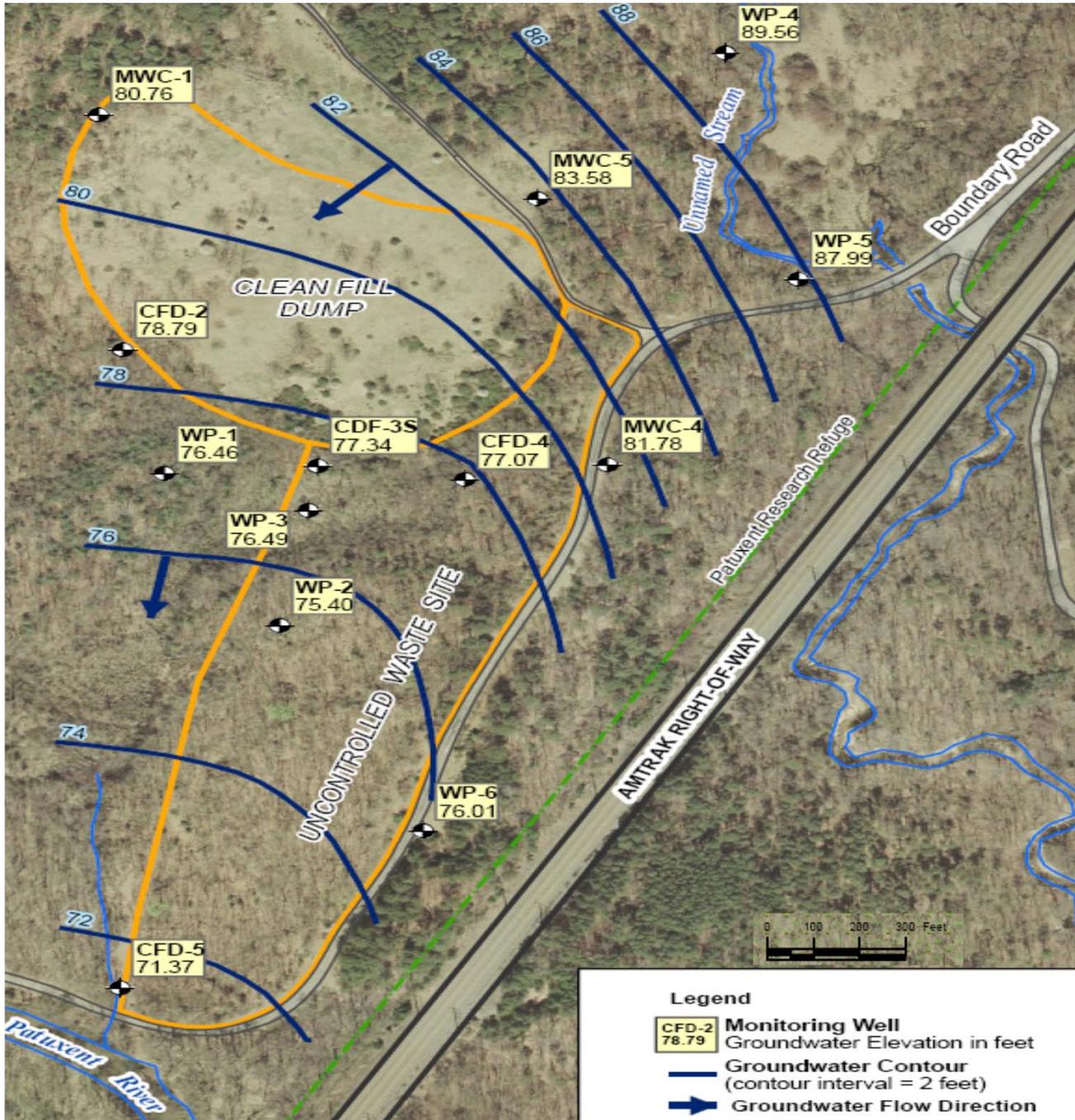
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Clean-fill Dump Well Locations & Shallow Groundwater Flow



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What's Next?



- Internal Draft 5YRs are currently undergoing Army review
- Submit Draft 5YRs to federal, state and local agencies for review and comment
- Publish announcement of 30-day community review and comment period for Draft Final 5YRs
- Incorporate public comments into the Final 5YRs and enter into the Administrative Record.





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QUESTIONS ?



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