



# Fort George G. Meade BRAC, DOI, and Tipton LTM Program Update

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# Project Scope



- **EA scoped to provide 5 years of Long-Term Monitoring (LTM) services from 2014 through 2019 on the Patuxent Research Refuge**
  - Annual MEC sweeps in a portion of Little Patuxent River on the Patuxent Wildlife Refuge
  - Annual groundwater sampling and data analysis at the Tipton Airfield Parcel (TAP), the Ordnance Disposal Area (ODA), and the Clean Fill Dump (CFD)
  - Annual remedy maintenance inspections and reporting at Inactive Landfills 1 and 3 at the TAP.



# 2015 River Sweep

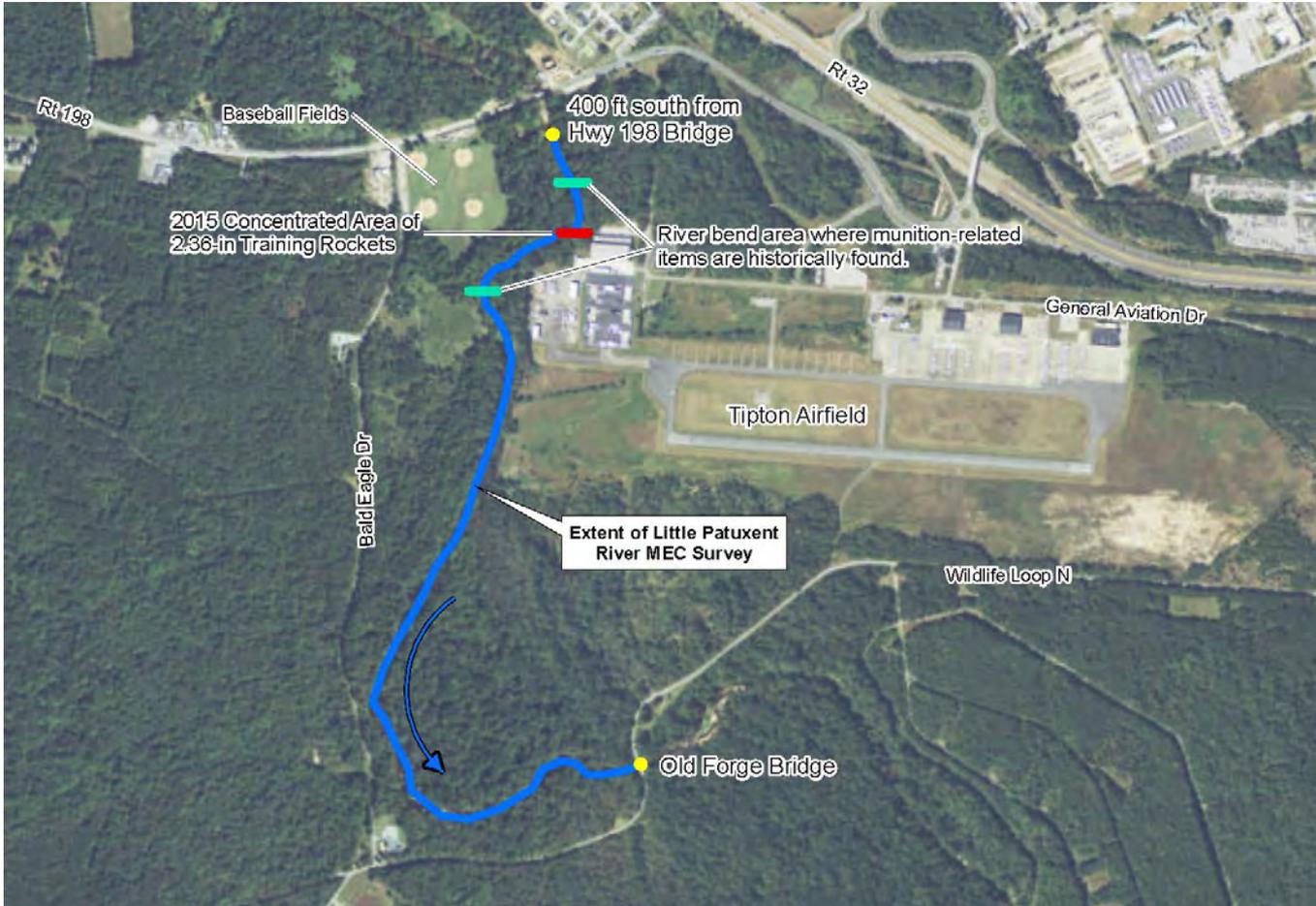


- This is the 15<sup>th</sup> annual river sweep event.
- The river sweep includes approximately 1 mile of the Little Patuxent River between 400 ft south of the Route 198 bridge and the Old Forge Bridge.
- Completed the 2015 annual river sweep field work from 26 to 28 August.
- In 2015, recovered 69 practice 2.36-in rockets from the river. No “live” munitions were found.

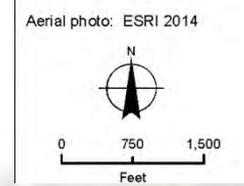




# River Sweep Location

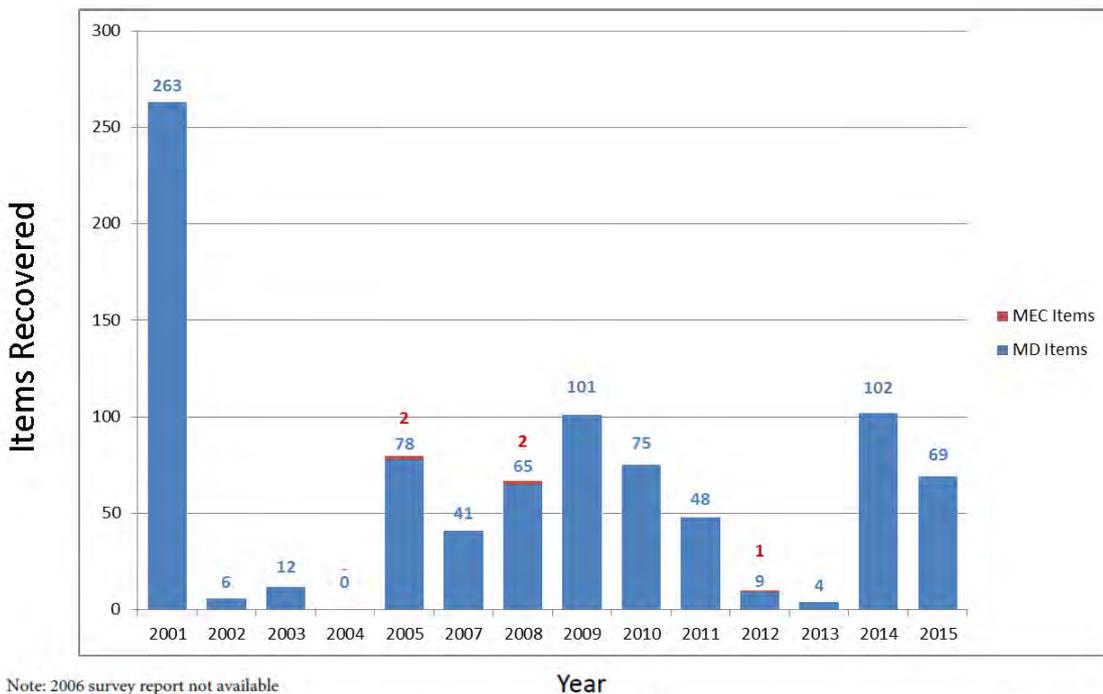


- Legend**
- Project End Points
  - Historical Find
  - Concentrated Area
  - River Sweep
  - ➔ Flow Direction





# River Sweep Results Over Time



Note: 2006 survey report not available

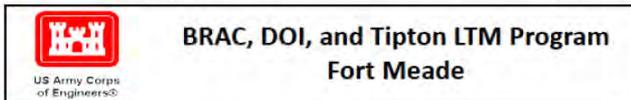


Figure 3  
Items Recovered by Year



MD – Munition Debris

MEC – Munitions and Explosives of Concern



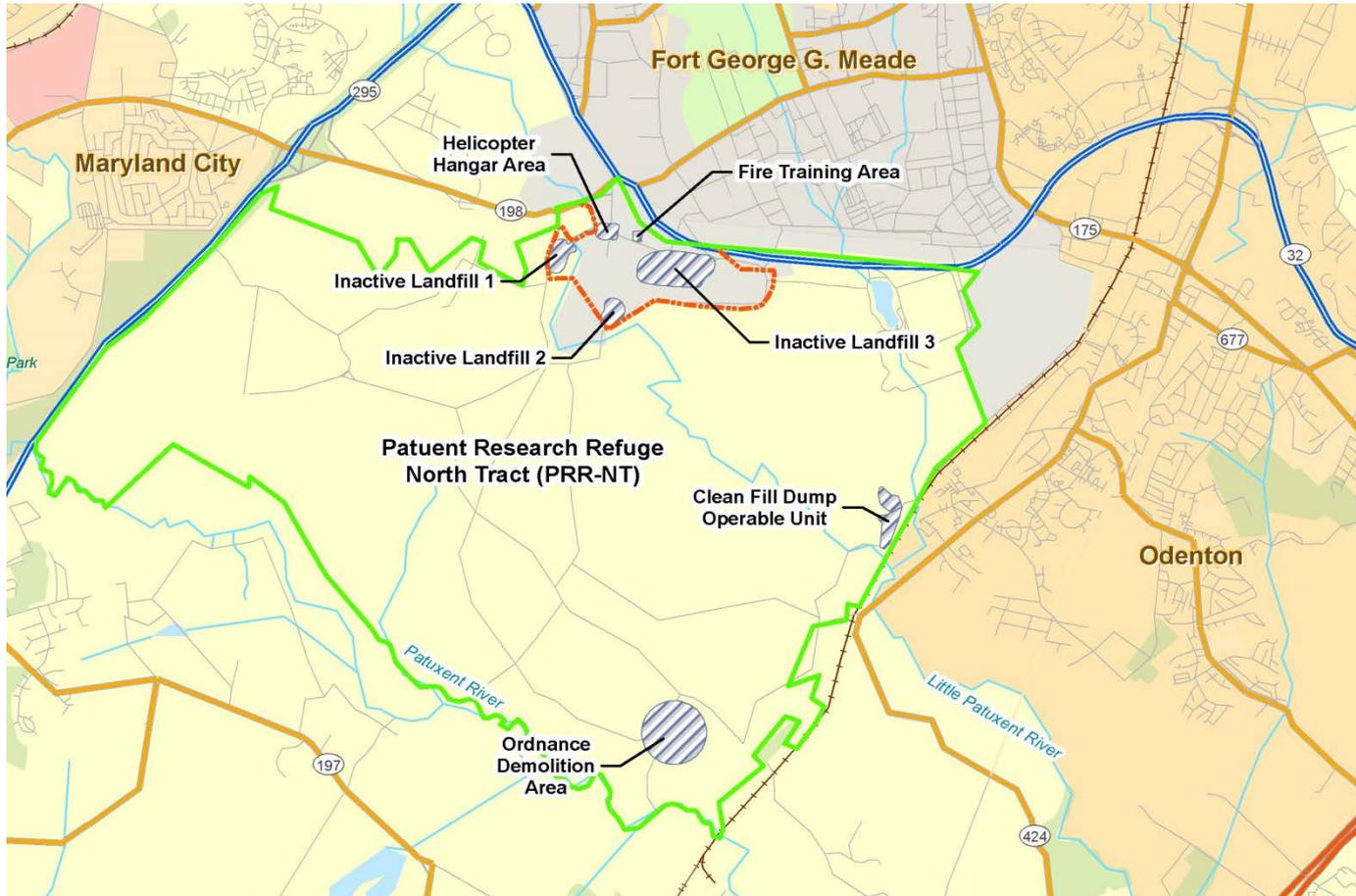
# 2015 Groundwater Sampling Event



- **Groundwater monitoring began at these three sites (TAP, CFD, and ODA) in 2001, 1991, and 2002.**
- **The groundwater monitoring was synchronized/combined into annual sampling events in 2012.**
- **Completed the 2015 groundwater sampling event from 22 to 29 June 2015.**
- **Groundwater samples were collected from 41 groundwater monitoring wells and 5 surface water samples at the CFD.**
- **Samples were collected generally for VOCs and metals to assess the natural attenuation/degradation of the contaminants over time.**
- **In general, the organic contaminant concentrations are reducing over time based on the long-term data set.**



# Groundwater Sampling Event Sites





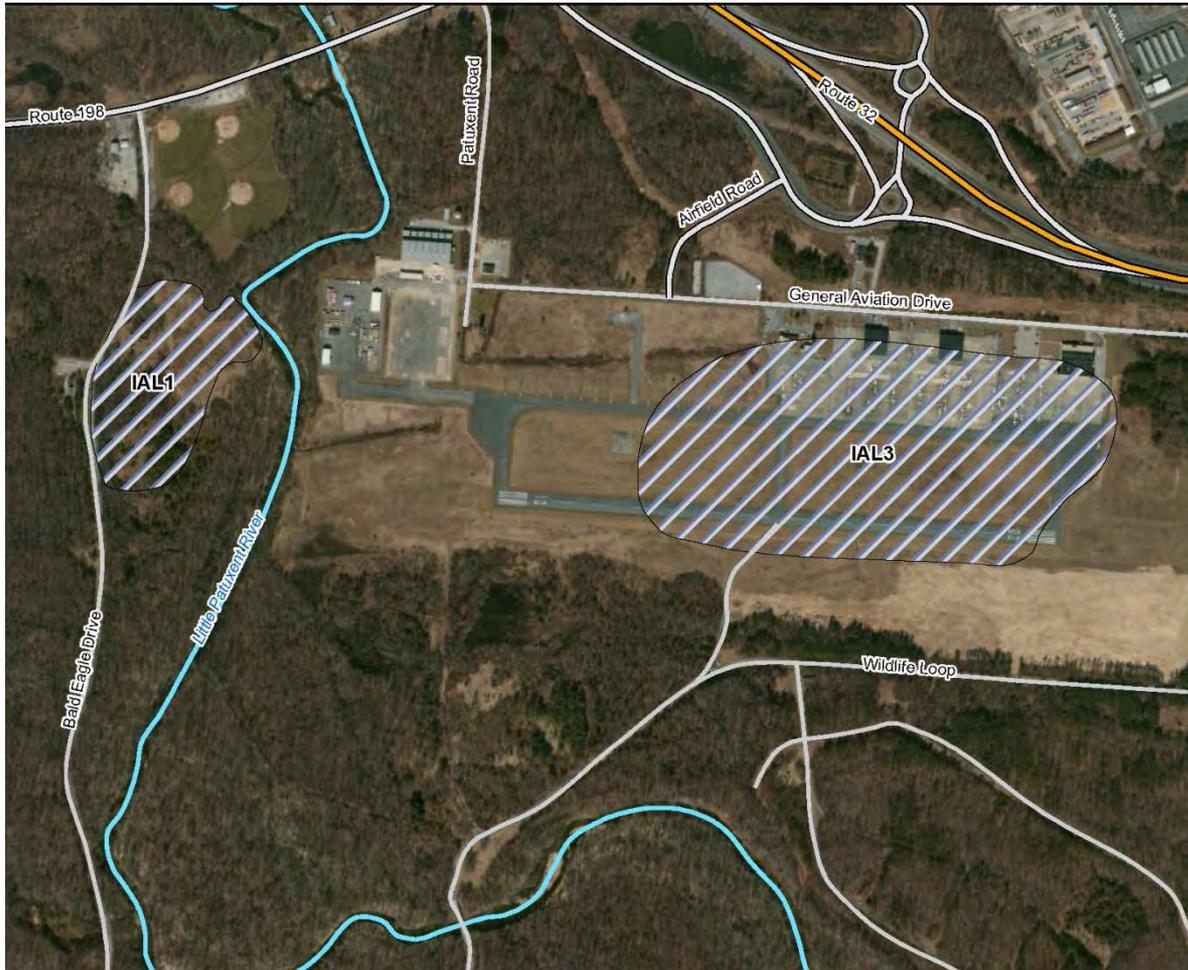
# 2015 Inactive Landfills 1 and 3 Maintenance Inspections



- The 2015 remedy maintenance inspection is scheduled for 24 November 2015.
- Based on the 2014 maintenance inspections and report, the remedy for the former landfilling areas are effective and protective.



# 2015 Inactive Landfills 1 and 3 Maintenance Inspections





# 2015 Project Document Status and 2016 Schedule



- Draft 2015 Little Patuxent River Sweep Report is in review with the Regulators and USFWS.
  - Next river sweep is scheduled for late August 2016.
- Internal Draft 2015 Groundwater LTM Report is in review with the Army.
  - Next groundwater sampling event is scheduled for June 2016.
- Internal Draft 2015 Maintenance Inspection Report for Inactive Landfills 1 and 3 is anticipated to be delivered to the Army in December 2015.
  - Next inspection is scheduled for November 2016. This event will include a magnetometer assisted visual MEC sweep of the area of IAL 3 area as required.
- USACE is conducting a Five-Year Review for the Combined Groundwater Operable Unit.
  - Final expected in September 2016.



# Points of Contact



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