



U.S. ARMY  
ENVIRONMENTAL  
COMMAND

# Status of Cleanup at the Former Badger Army Ammunition Plant (BAAP)

RAB Meeting

7-18-2024

- **Welcome and Opening Remarks**
- **Roll Call**
- **Review of the Minutes from March 2024 RAB**
- **Spring 2024 Groundwater Sampling Results**
- **Site-Wide Groundwater Proposed Plan**
- **Settling Ponds Expanded Site Inspection**
- **Gruber's Grove Bay Data Gap Investigation**
- **PFAS Remedial Investigation**
- **Five Year Review**
- **TAPP Grant**
- **Future Meetings**
- **Questions and Closing Comments**



# **Welcome/Opening Remarks**

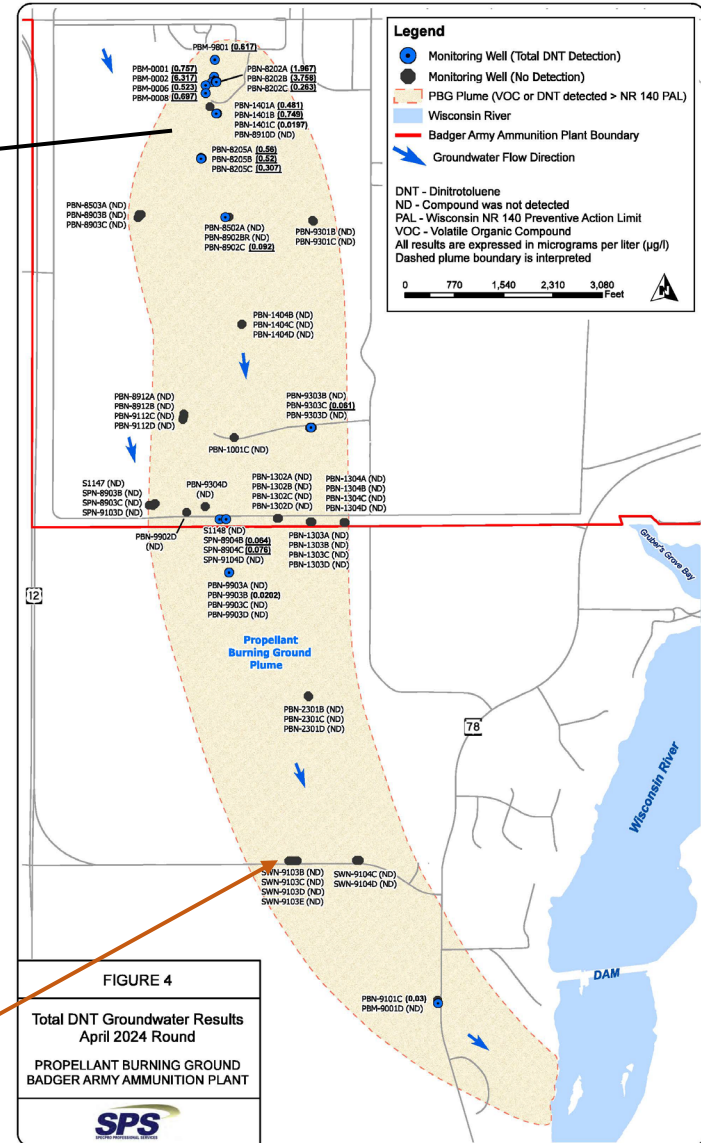
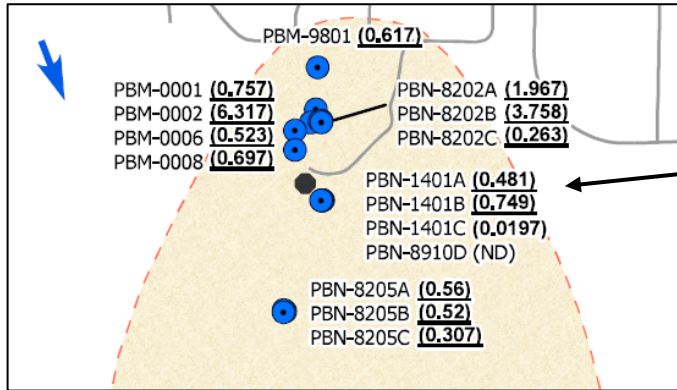
## **Former Badger Army Ammunition Plant Restoration Advisory Board**

**July 18th, 2024**





# Spring 2024 Groundwater Sampling



Propellant Burning Ground – DNT (ES = 0.05µg/l)		
Well	2023 (µg/l)	2024 (µg/l)
PBM-0001	9.998	0.757
PBM-0006	10.398	0.523
PBN-1401A	0.954	0.481
PBN-1401B	0.567	0.749
PBN-1401C	0.573	0.0197
PBN-8202A	1.128	1.967
PBN-8202B	3.775	3.758
PBN-8202C	10.77	0.263

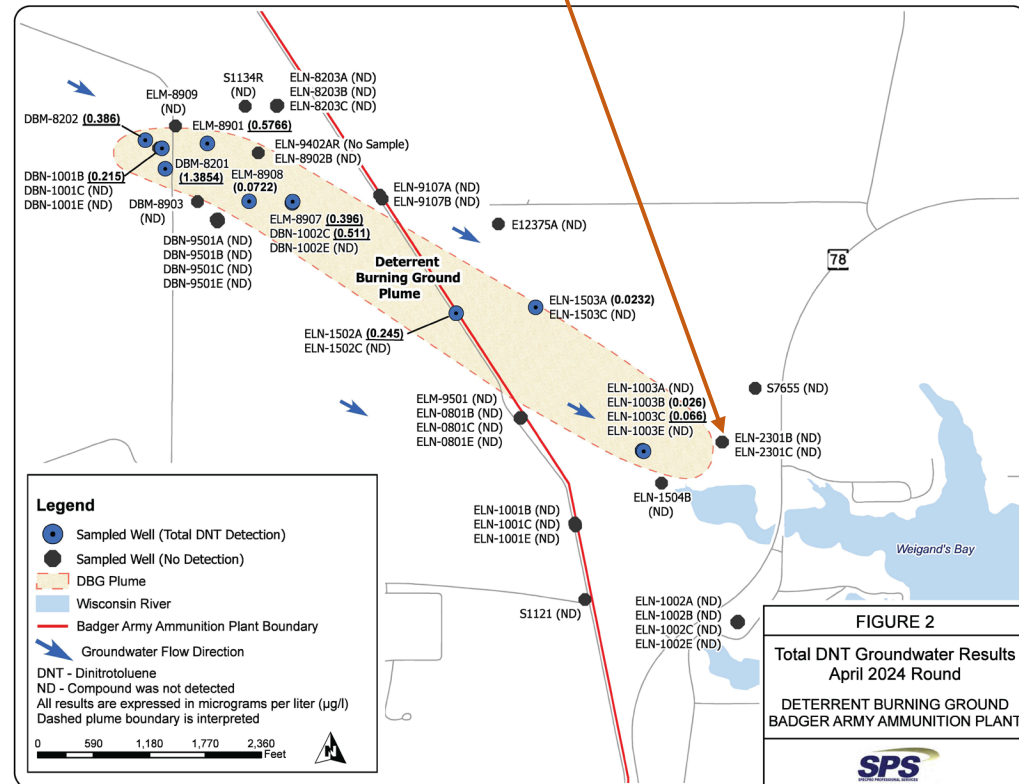
Propellant Burning Ground - Ethyl Ether		
Well	2023 (µg/l)	2024 (µg/l)
SWN-9103D	1,200	2,000



# Spring 2024 Groundwater Sampling

Deterrent Burning Ground DNT (ES = 0.05µg/l)		
Well	2023 (µg/l)	2024 (µg/l)
DBM-8202	0.343	0.386
DBN-1001B	0.298	0.215
DBM-8201	2.898	1.3854
ELM-8901	0.728	0.5766
ELM-8907	0.831	0.396
DBN-1002C	0.743	0.511
ELN-1502A	0.264	0.245
ELN-1503A	0.105	0.0232
ELN-1003B	0.096	0.026
ELN-1003C	0.164	0.066

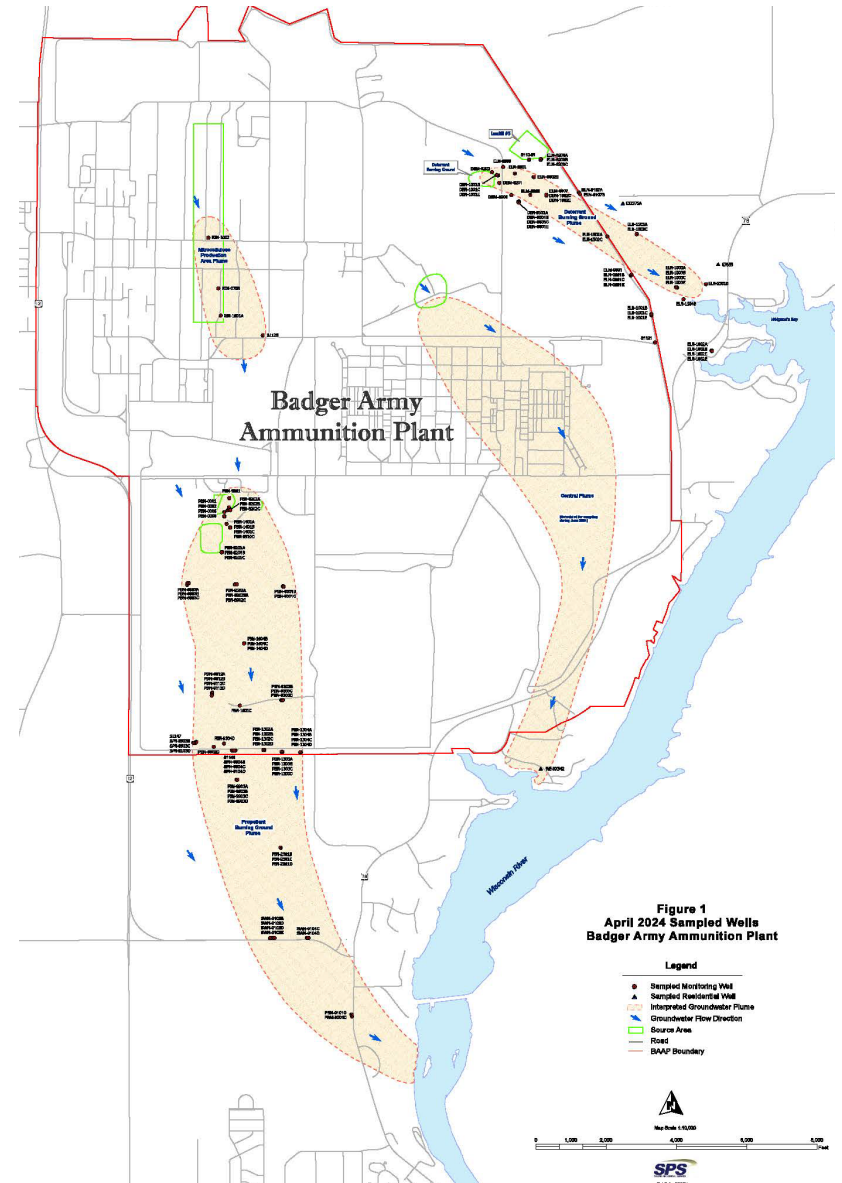
- Off-site and on-site DNT concentrations have decreased
- Two new off-site wells were installed in 2023 DNT not detected



# Site-Wide Groundwater Proposed Plan

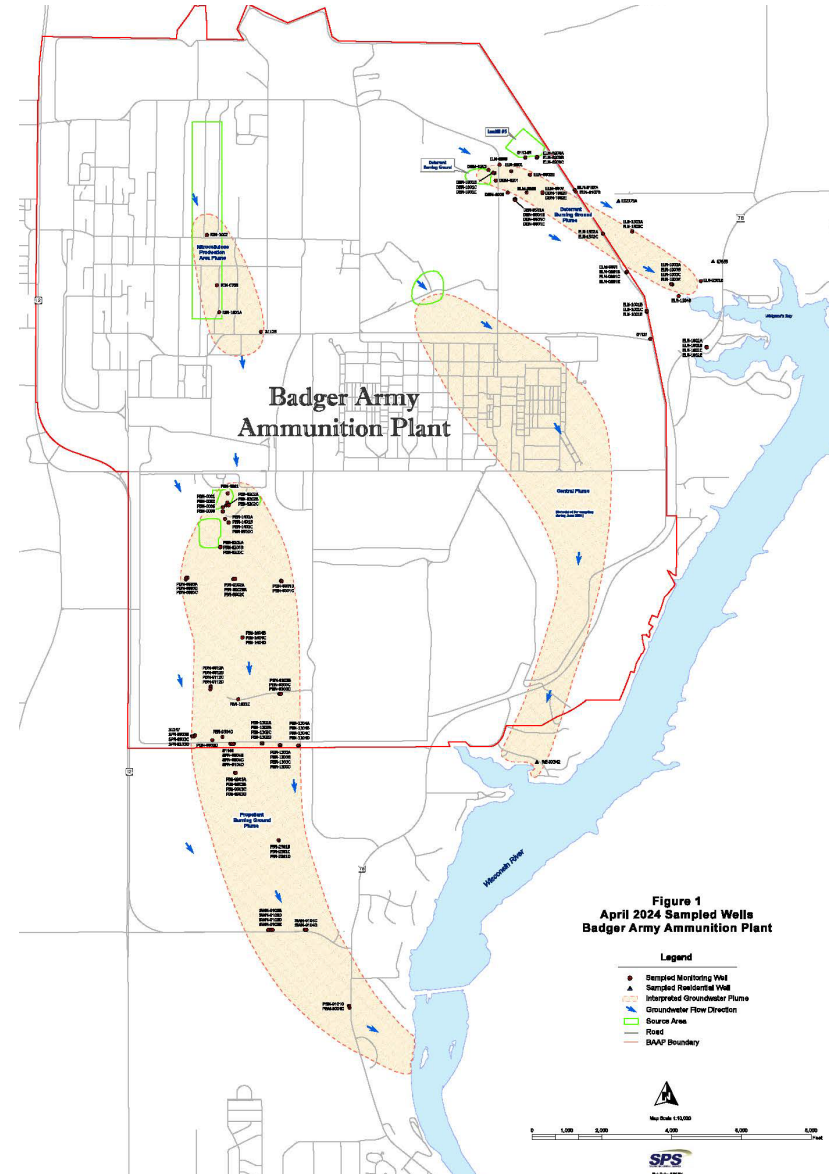
## Draft Final Proposed Plan Timeline

- February 2023 – Army submitted Draft Final Proposed Plan
- June 2023 – WDNR provided comments
- August 2023 – Army responded to WDNR comments
- October 2023 – WDNR responded to Army comments
- November 2023 – Army provided final response to WDNR comments
- March 2024 – Army and WDNR attorneys met to discuss NC area risks
- June 2024 – Army completed reevaluation of groundwater risk using 2019-2023 data
- July 2024 – Army submitted revised Proposed Plan to WDNR



## USAEC Path Forward

- USAEC will share updated risk calculations with WDNR for their review.
- Updated risk calculations did not change current conclusions or proposed remedies.
- The public will have the chance to provide comments on the Proposed Plan.
  - A public meeting will be held during the public comment period to educate the public on the Proposed Plan contents, address community questions, and take vocal comments.
  - The public comment period will be 60-days.
  - The public can send in written comments at any time during the public comment period.
  - Comments will be addressed and responded to in the following Decision Document.

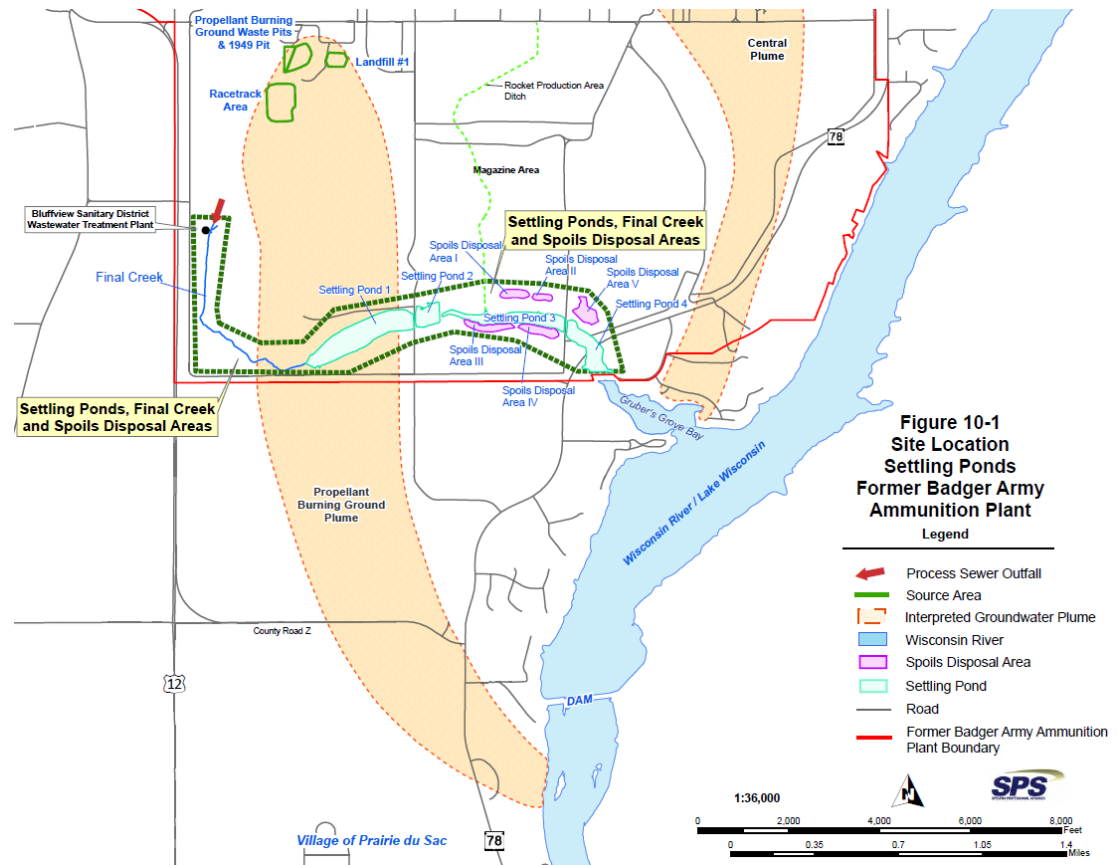




# Settling Ponds Expanded Site Inspection

## Expanded Site Inspection Timeline

- Contract awarded on Dec 1, 2023
  - Includes Final Creek, Settling Ponds 1 & 3, & Spoils Disposal Areas I, II, III, IV, & V
- Project Management Plan – March 2024
- Site Health and Safety Plan – April 2024
- Workplan – early August 2024
- Field work (soil sampling) – late August 2024
- Groundwater Projects:
  - Site-Wide Groundwater Monitoring Plan – Fall 2024
  - Emergency Response Plan – Fall 2024







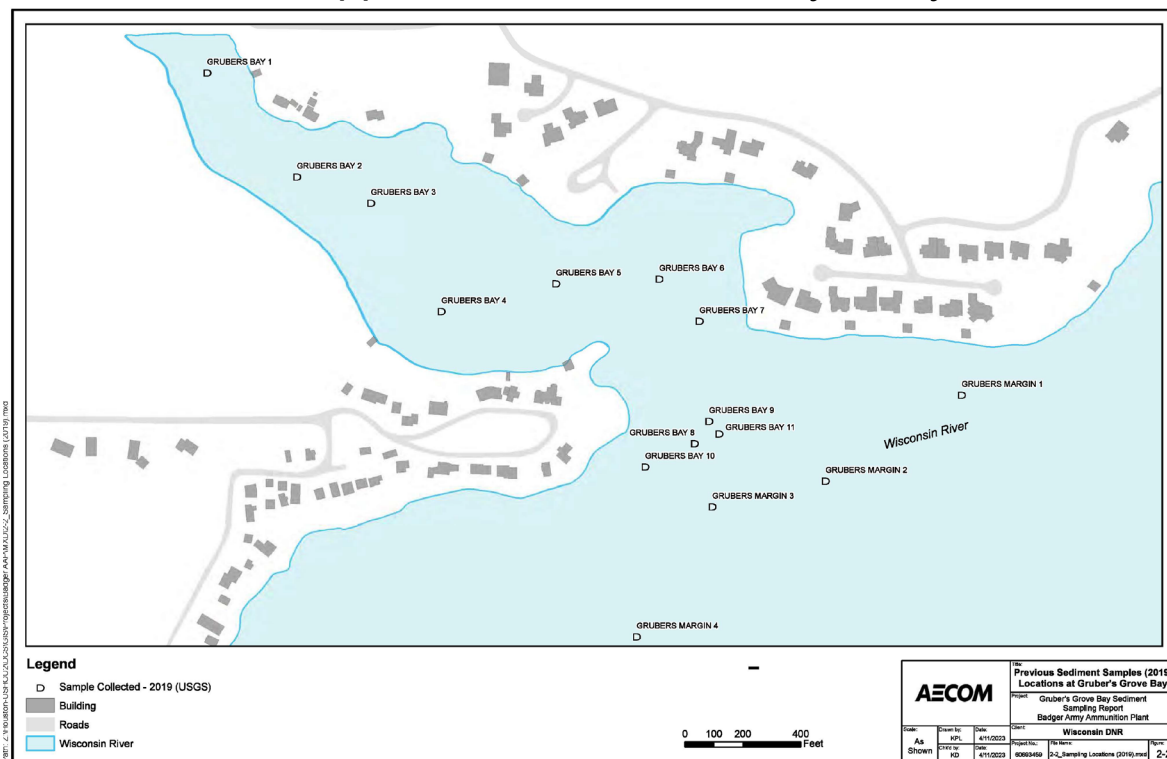
# Gruber's Grove Bay Data Gap Investigation

## Desktop Supplemental Remedial Investigation (RI)

- March 2024 – Army finalized the Desktop Supplemental RI Report

## Data Gap Investigation

- Purpose is to refine lateral and vertical delineation of mercury to improve effectiveness of future remedial actions and support the future Feasibility Study.
- Draft workplan prepared, sent to WDNR for review in June 2024.
- Field work planned for September 2024.
  - Surface sediment, sediment cores, and surface water.
- Bench tests will assess feasibility and efficacy of remedial action strategies.



## Per- and Polyfluoroalkyl Substances (PFAS) Remedial Investigation (RI) for Propellant Burning Ground

- Acquisition of a PFAS RI contract underway and on track to be awarded in late 2024.
- Headquarter Army Deputy Chief of Staff approved a new PFAS site on Feb 20, 2024
- Remedial Investigation (RI) field activities anticipated for Spring 2025 to define the nature and extent of PFAS contamination.
- Utilizing the Regional Screening Levels (RSLs) approved by the EPA.
- For more information on the Department of Defense PFAS cleanup strategy, please see the Office of the Secretary of Defense (OSD) PFAS website at <https://www.acq.osd.mil/eie/eer/ecc/pfas/>



## 2nd Five Year Review (FYR)

- December 2023 – Army submitted Draft Final FYR to WDNR.
- February 2024 – Army received WDNR comments.
- April 2024 – Army FYR finalized.
  - Copies available in Admin Record, at <https://aec.army.mil/baap>, and sent out to RAB members.

## Conclusions

- BAAP-35 Cap and Cover Maintenance – The remedies are protective.
- BAAP-001 Settling Ponds/Spoils Disposal – The remedies are not protective.
- BAAP-40 Gruber’s Grove Bay – The remedies are not protective.
- Cleanup is planned for Settling Ponds and Gruber’s Grove Bay which should be protective once complete.



## TAPP Grants

- Limited to \$25,000 per fiscal year and no more than \$100,000 total
- Obtain waiver from Army headquarters
- Utilized only if all other sources have not been helpful
- Requires three community members identify a specific project, majority of community members on the RAB agree





- 17 October 2024
- 16 January 2025
- 17 April 2025
- 17 July 2025



# Questions??

## Public Comments

### Closing Remarks

