

**Presenters: Joel Janssen
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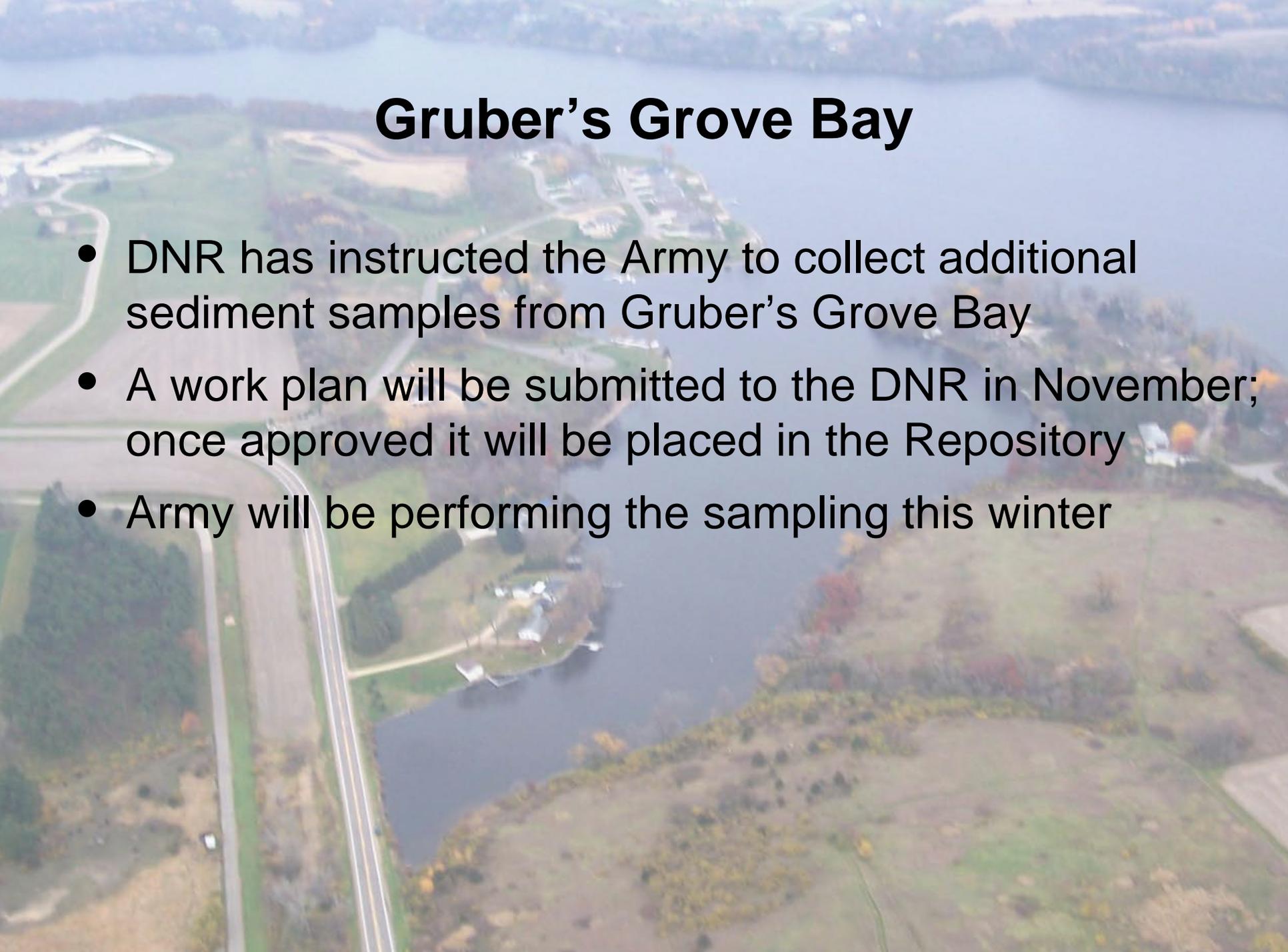
**Woody Myers
Department of Natural Resources**

Badger Army Ammunition Plant



Modified Interim Remedial Measures (MIRM) Groundwater Treatment System

- DNR approved Army's plan to shut off the MIRM
- Army sent out an update on June 22, 2015
- MIRM was placed in "stand by" mode on August 31, 2015
- Phase II of the Shut Down Plan is underway
- Three rounds of quarterly groundwater sampling

An aerial photograph of a bay area with a road, green fields, and a large body of water. The text is overlaid on the image.

Gruber's Grove Bay

- DNR has instructed the Army to collect additional sediment samples from Gruber's Grove Bay
- A work plan will be submitted to the DNR in November; once approved it will be placed in the Repository
- Army will be performing the sampling this winter

DNR Comments on Additional Sampling Gruber's Grove Bay

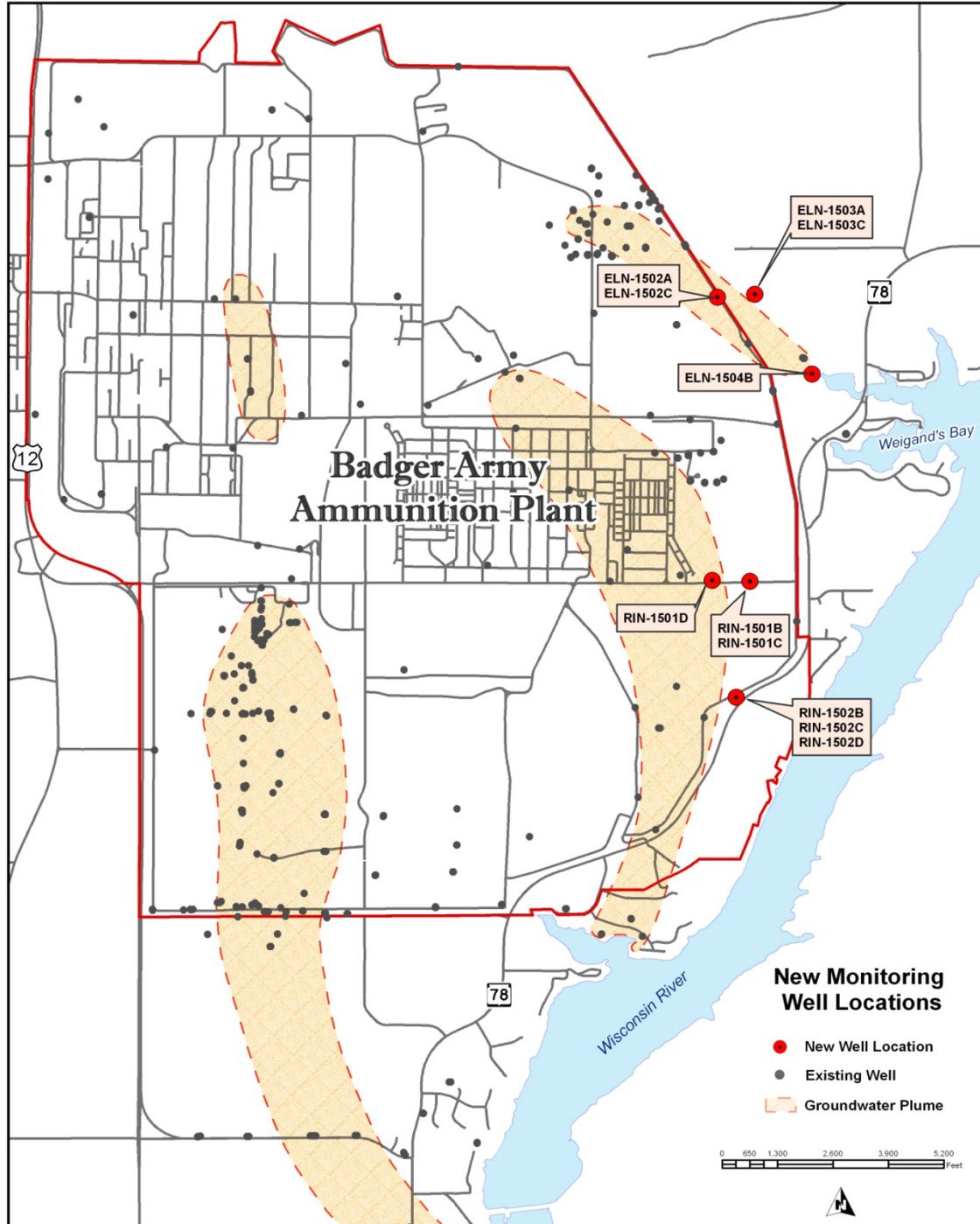
- Driver for Gruber's Grove Bay is ecological
- There is not any Direct Contact threat (human/dermal contact)

Monitoring Well Installation



Monitoring Well Installation

- 11 new monitoring wells were installed along the eastern boundary during September & October
- New monitoring wells will be sampled in two weeks
- Laboratory results will be submitted to DNR in December
- These monitoring wells will be part of routine groundwater sampling program



Monitoring Well Installation

Groundwater Sampling

- Monitoring Well Sampling – Sept 2015
 - *139 Monitoring wells sampled for DNT and some cases VOC*
 - *Groundwater plumes have not significantly changed*
- Residential Well Sampling – Sept/Oct 2015
 - *52 Residential wells sampled for DNT and some cases VOC*
 - *No Enforcement Standard exceedances*



Groundwater Analyses

- VOC Analysis - *continues*
 - *Analyses include Carbon Tetrachloride, Chloroform, Ethyl Ether, Trichloroethene, + 53 other compounds*
- DNT (6 isomers) Analysis – *continues*
- Nitrate Analysis – *continues at PBG*
- Sulfate Analysis – *continues at DBG*

Groundwater Sampling Summary Map updated

- New monitoring wells were added
- Plume geometry slightly changed
- Boundary for Nitrocellulose Production Area Plume was added

