

15 March 2022

US Army Environmental Command (USAEC)



# **AGENDA** – March 15, 2022 at 7 p.m.

- Review/Approve minutes of last meeting
- Old Business
- Cleanup Status Update
- New Business
- USGS GW Modeling Presentation
- Next Meeting Agenda
- Public Comments





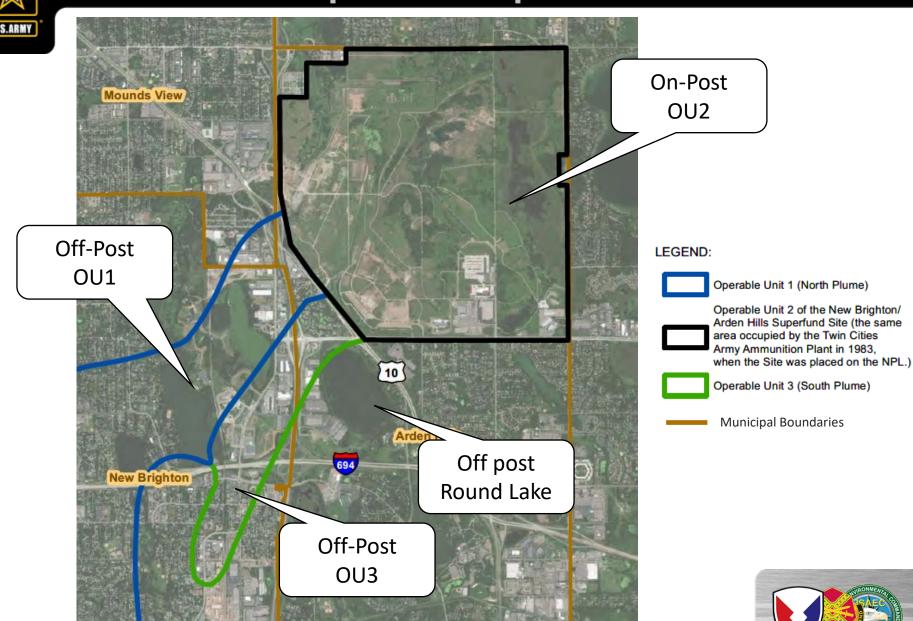
#### **Old Business**

- Vote to accept the minutes from previous meeting
- Army is coordinating with well owners and establishing contract mechanism to connect three well owners to municipal water supply
- Next annual groundwater sampling scheduled for June/July 2022



# U.S.ARMY

# **TCAAP Cleanup Status Update**





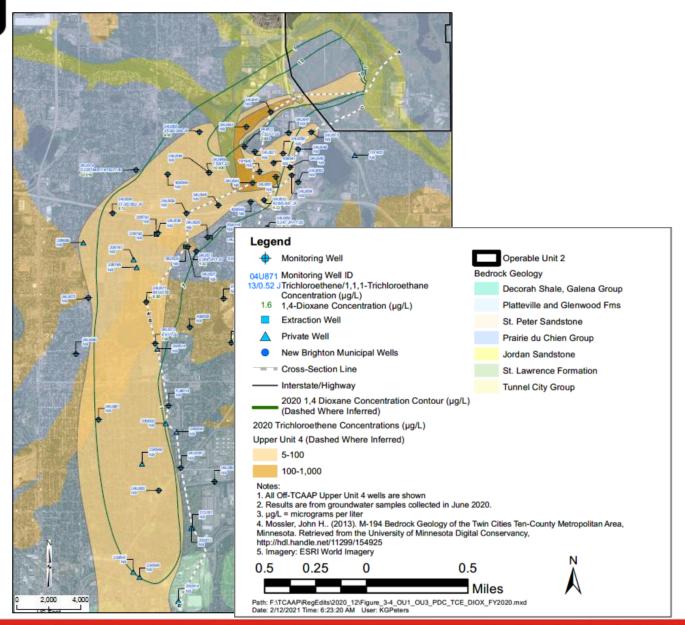
#### What has the Army done since December 2021?

- Submitted 2021 Annual Performance Report to regulators in February 2022
- Submitted Round Lake Record of Decision to regulators in February 2022.
- Met about Round Lake ARARs on 9 December 2021.
- Met with Groundwater Stakeholders on 15
  December 2021. Will meet again on 15 June 2022.
- Updated plume maps from FY2021 APR follow.



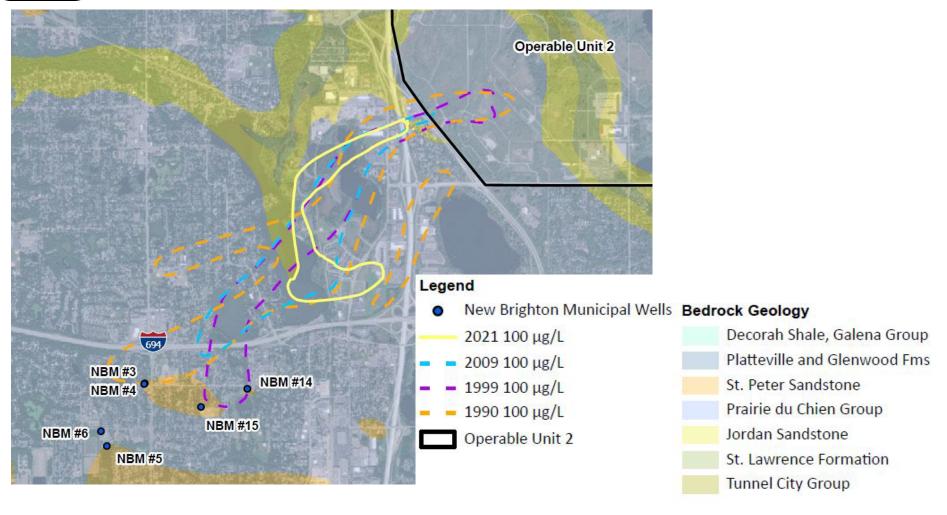


#### FY2021 – Prairie du Chien Plume Map



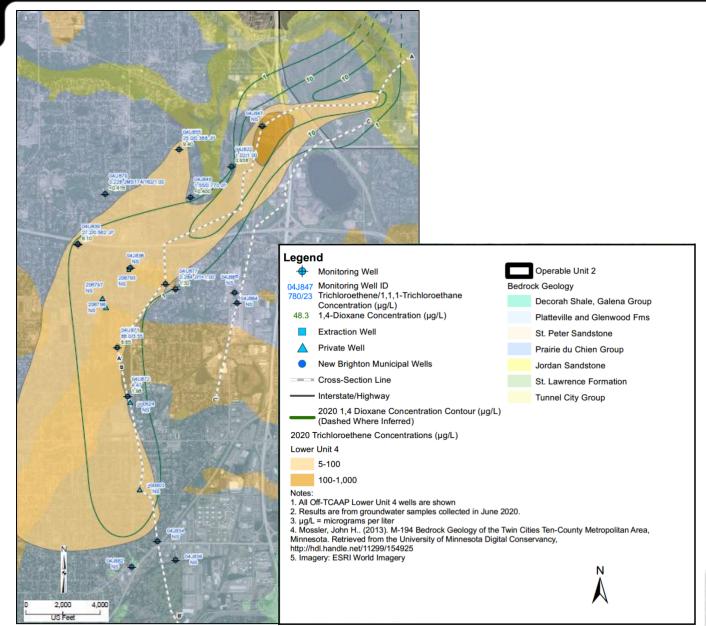


#### FY2021 – Prairie du Chien Plume Map Over Time





## FY2021 – Jordan Plume Map







Legend

Monitoring Well ID

Extraction Well

Cross-Section Line

Extraction Well Piping

2020 Trichloroethene Concentrations (µg/L)

Private Well

Site Boundary

Upper and Lower Unit 3

5-100

1000+

Bedrock Geology

100-1000

Operable Unit 2

St. Peter Sandstone

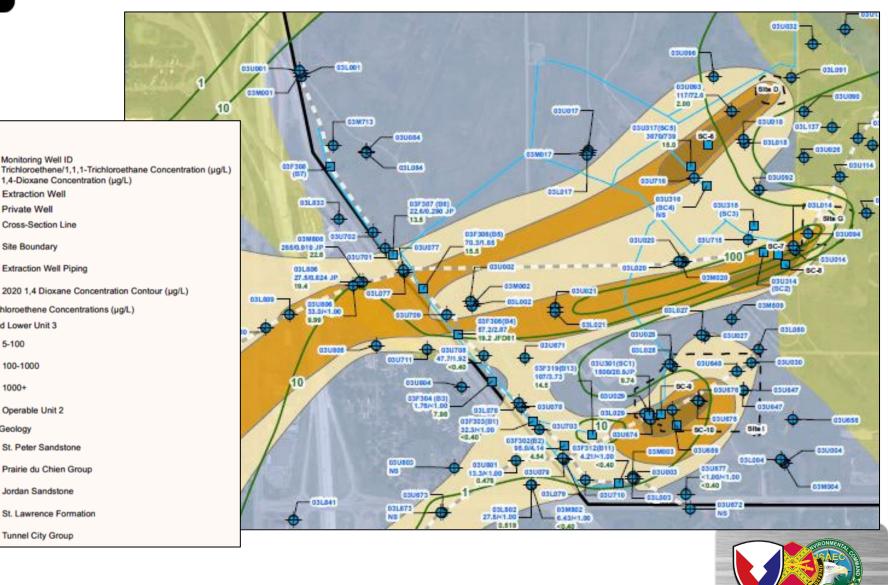
Jordan Sandstone

Prairie du Chien Group

St. Lawrence Formation

1,4-Dioxane Concentration (µg/L)

#### FY2021 – OU2 Unconsolidated Sediments Plume Map



# U.S.ARMY

# Twin Cities Army Ammunition Plant Cleanup



LEGEND:

Operable Unit 1 (North Plume)

Operable Unit 2 of the New Brighton/ Arden Hills Superfund Site (the same area occupied by the Twin Cities Army Ammunition Plant in 1983, when the Site was placed on the NPL.)

Operable Unit 3 (South Plume)

Municipal Boundaries





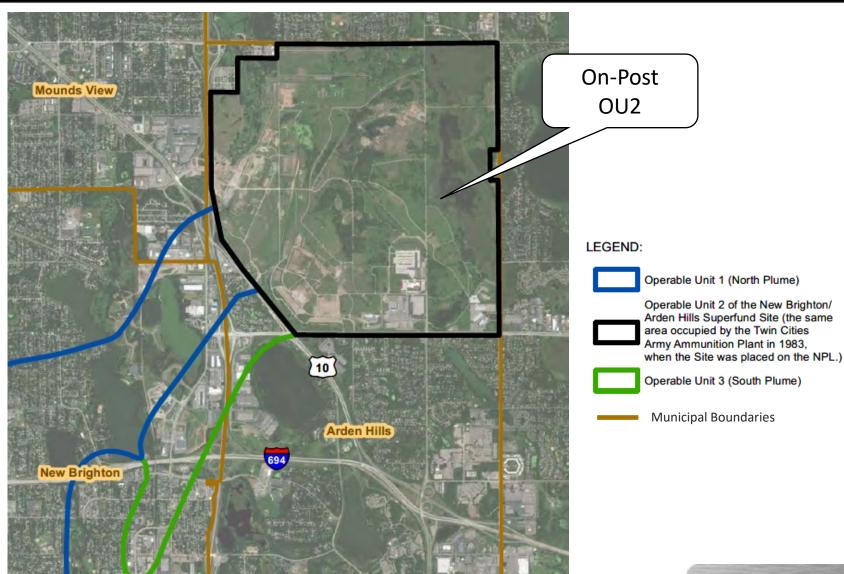
## **OU1 Optimization**

- Goal: increase amount of contaminant removed by relocating well more central to plume.
- Army will fund and New Brighton will install new drinking water supply well in 2022.
- Army will continue to work with New Brighton to ensure drinking water treatment operations are not affected.





# Twin Cities Army Ammunition Plant Cleanup





# **OU2 Optimization**

- Construction on SGRS building continues. Expected completion in May 2022.
- Water line installation completed.
- Building interior preparations ongoing – floor, equipment pads, and equipment ramp poured.
- AOR/air stripper delivered and scheduled for installation in March 2022.

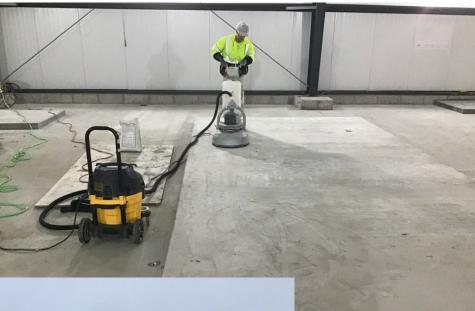






# **OU2 Optimization**





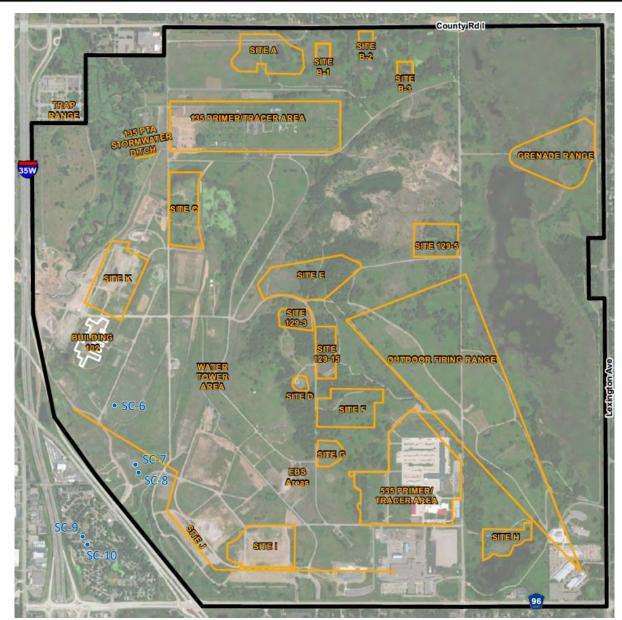






# OU2









# OU2 - Site K USGS Treatability Study

- Purpose: to improve shallow groundwater remediation of TCE.
- Both quarterly and performance monitoring ongoing.
- No change since December 2021 RAB presentation.







# Twin Cities Army Ammunition Plant Cleanup



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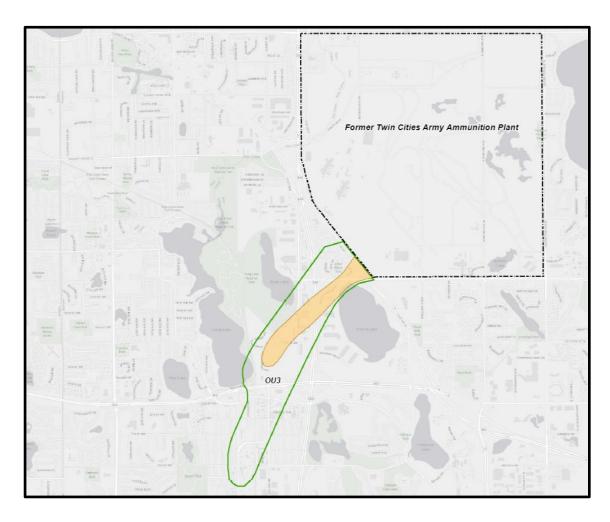
Operable Unit 3 (South Plume)

Municipal Boundaries

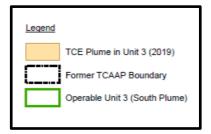


# U.S.ARMY

## **OU3 Plume**



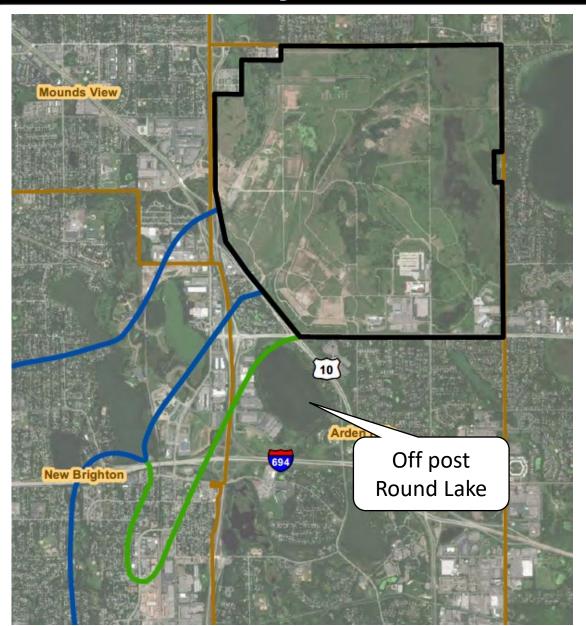
- Continued monitored natural attenuation
- Annual groundwater sampling expected in June/July 2022
- Updated maps are available in the FY2021 Annual Performance Report







# Twin Cities Army Ammunition Plant Cleanup



LEGEND:

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Operable Unit 3 (South Plume)

Municipal Boundaries





## **Round Lake – Next Steps**

- Record of Decision (ROD) Army submitted to regulators in February 2022 and will release to the public once accepted by EPA and MPCA.
- Responsiveness summary is included with the ROD.
- Next Round Lake Technical Working Group Meeting expected 30 days after ROD acceptance.





#### What's Next

#### • OU1

 Army will fund and New Brighton will install new drinking water supply well.

#### • OU2

- Complete abandonment of 40 monitoring wells.
- Complete installation of 3 monitoring wells including optimization of the monitoring well network.
- Conduct Risk Assessment for unrestricted land use.
- Conduct Engineering Evaluation/Cost Analysis for the 135 Primer Tracer Area.

#### • OU3

- Continue groundwater monitoring.
- Round Lake
  - Publish Record of Decision





#### **New Business**

- Proposed SGRS tour in June 2022. Need level of interest.
- Topics for future RAB meetings?
- Additional administrative requirements for RAB?
- Suggestions for improvement of RAB?





## **USGS** Presentation

- Megan Haserodt
- Senior Hydrologist
- USGS Upper Midwest Groundwater Modeling Team



# **Next Meeting Agenda**

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## **Public Comments**

Does anyone have any comments, concerns or suggestions





## Questions

You can ask questions now or at anytime using the email listed on the website.



