

# WELCOME TO INDUSTRY DAY



**Julie Barrett O'Neill, Esq (or Chad Staniszewski, PE)**

NYS Dept of Environmental Conservation Regional Director, Region 9

**Jeffrey S. Hall, PE, PMP**

USACE Buffalo District

Chief of Niagara Falls Storage Site Integrated Technical Office

**Steve Ranalli, PE**

President, Erie County Stadium Corporation

**Jeffrey Ernest**

USACE Buffalo District Chief of Contracting

**John Davis**

Wendel

Post President

# NIAGARA

# FALLS

# STORAGE SITE

## (NFSS)

SAME Buffalo Post Industry Day

NFSS Remedial Action Briefing

06 June 2024

Jeffrey S. Hall, PE, PMP  
Chief, NFSS Integrated Technical Office



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# NIAGARA FALLS STORAGE SITE (NFSS) HISTORY

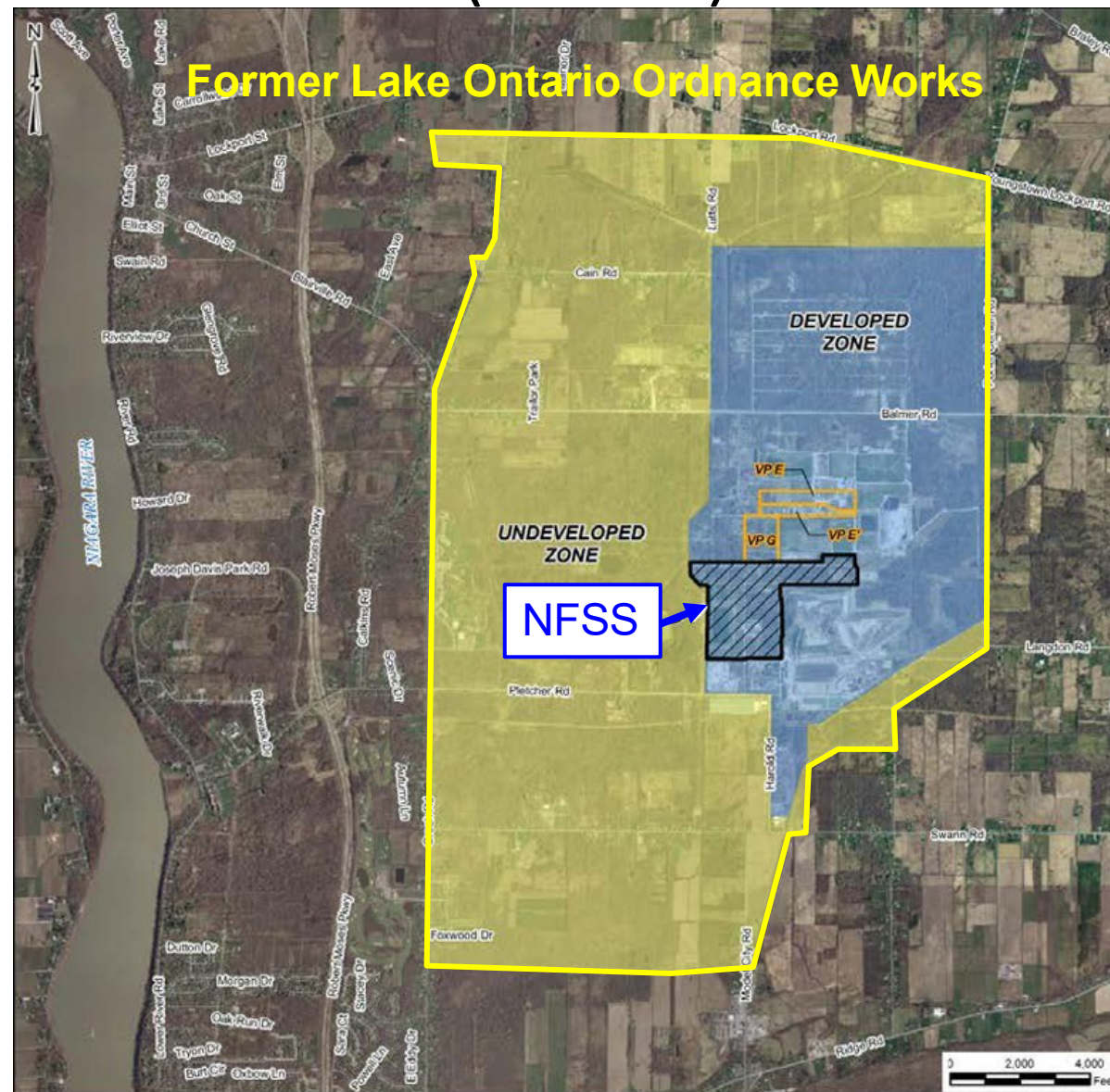


## LAKE ONTARIO ORDNANCE WORKS

- In 1942 the War Department acquired 7,500 acres of farmland and homes to build a TNT explosives plant – the Lake Ontario Ordnance Works (LOOW)
- The LOOW *Undeveloped Zone* was largely left as a safety and security buffer around the active TNT plant (the *Developed Zone*)
- The LOOW shut down in 1943 and the land was reused by a variety of defense activities in the *Developed Zone*
- During the 1940s-1980s, portions of the LOOW were used for open storage of radioactive uranium processing wastes from Manhattan Engineer District (MED) & Atomic Energy Commission (AEC)
- Excess federal property on the LOOW was gradually sold back to the public for redevelopment
  - Homes
  - Schools
  - Industrial & Commercial
  - Municipal and Hazardous Waste Landfills
  - Recreational
- Buffalo District in partnership with the New York and New England Districts has led the investigation and partial remediation of the LOOW under the Formerly Utilized Defense Sites program.

## NIAGARA FALLS STORAGE SITE (NFSS)

- The current NFSS is last parcel of US government property (191 acres) from the former LOOW







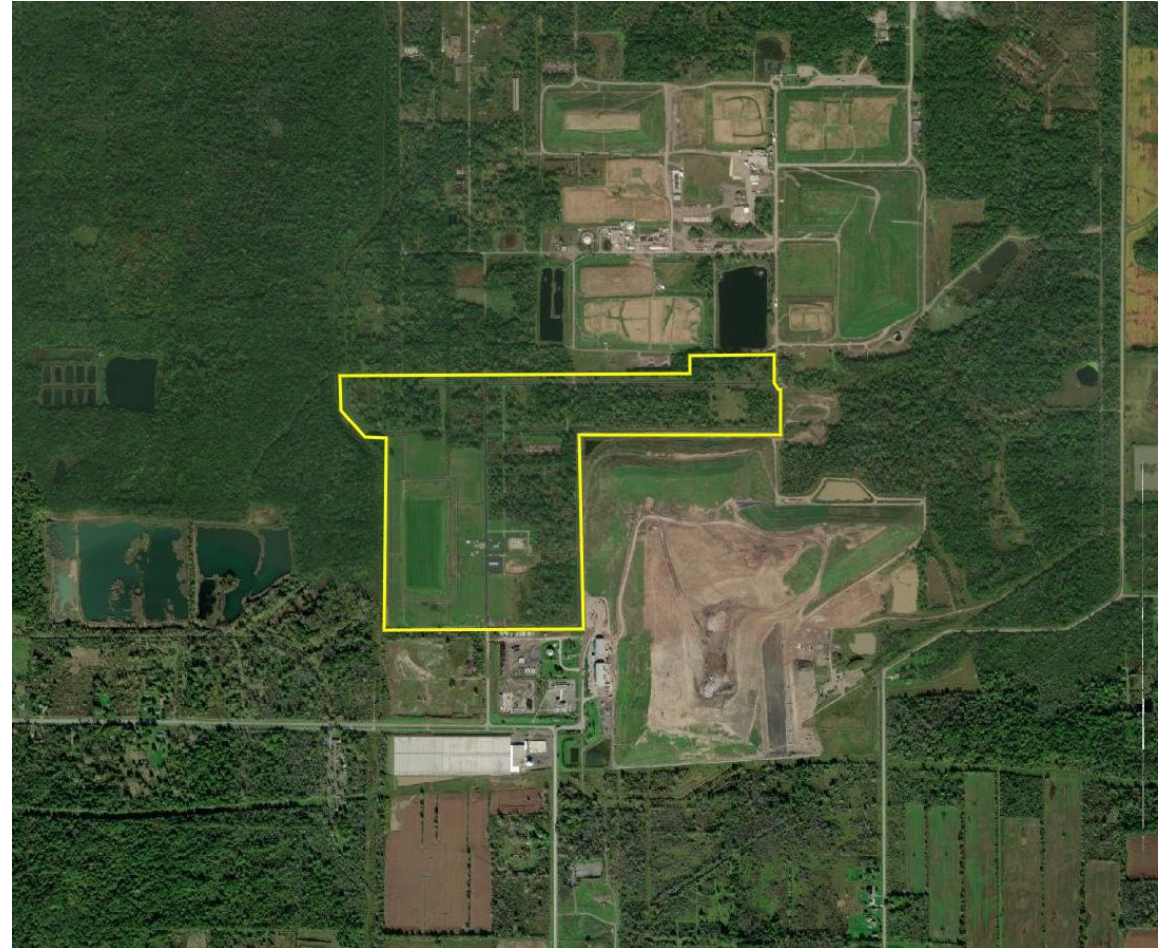
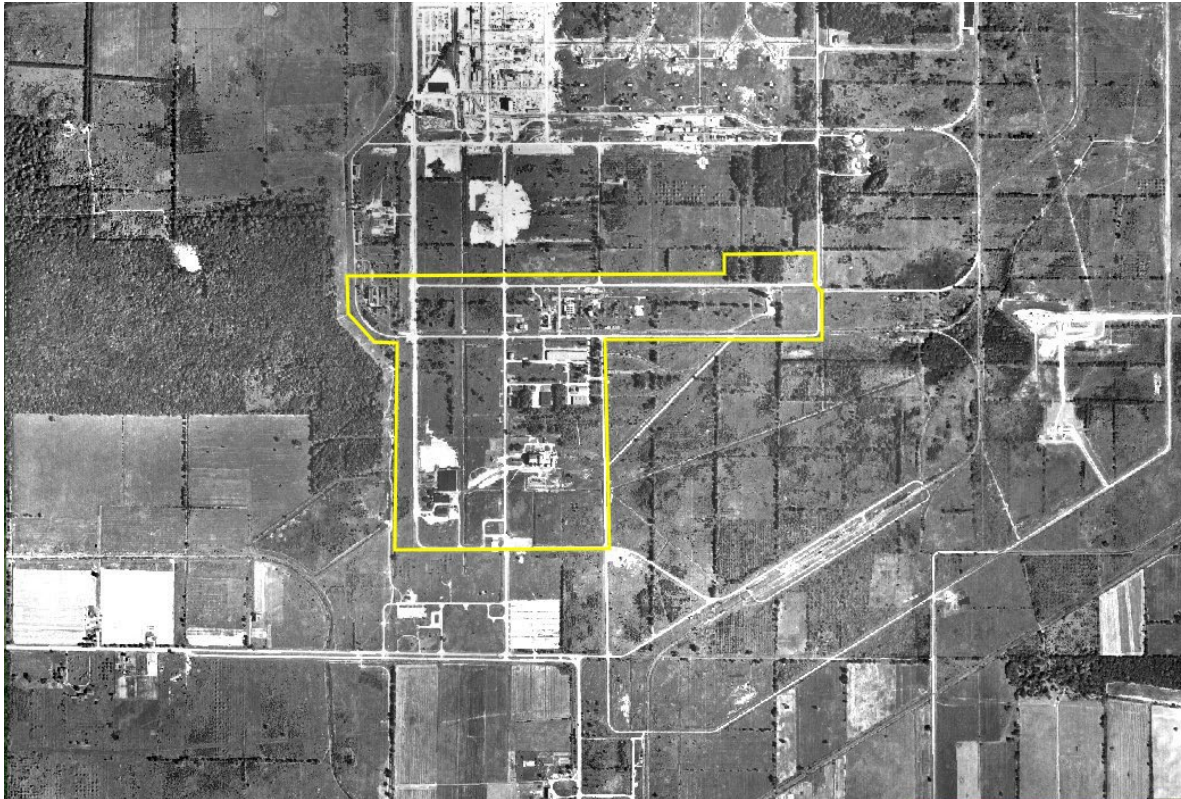
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# NIAGARA FALLS STORAGE SITE (NFSS) HISTORY

Current aerial image shows the development of municipal landfill (east) and hazardous waste treatment & disposal facility (north) and the Interim Waste Containment Structure (IWCS) constructed by the US Department of Energy in 1986

1958 aerial image shows the NFSS as part of the former LOOW (water treatment plant & central boiler plant)







# FAST FACTS:

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## Design

- Safely contain high-activity radioactive wastes
- Prevent rainwater infiltration
- Prevent migration to groundwater
- Retard radon gas emissions

## Construction

- Built 1982-1986 by DOE to contain Atomic Era waste
- 10-acres in area
- 990 feet long x 450 feet wide
- 34 feet above grade
- 10-15 feet below grade

## Contents

- Uranium processing wastes, contaminated soils, debris, equipment
- Uranium, thorium, radium
- 278,072 cubic yards

## Health Hazards from Exposure

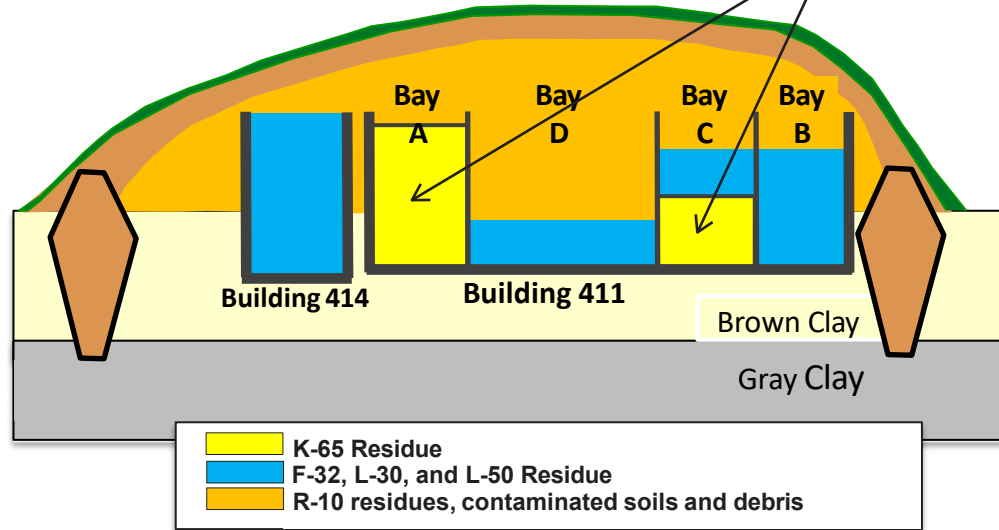
- Gamma radiation
- Radon gas inhalation

# Interim Waste Containment Structure



**K-65 Residues**

- 1% of volume
- 91% of radioactivity



## Record of Decision

- **Federal Law:** Protect public health for 1,000 years
- **Scope:** Completely remove IWCS and ship contents to permanent storage out of state

## Project Delivery – Moving Dirt!

- Construct control structure to encapsulate excavation area & capture radon gas
- Remotely operated excavation & treatment systems
- Excavate & treat (solidify) high-activity wastes. Ship to Texas or Utah for permanent storage/disposal
- Excavate & ship low activity wastes to sites permitted to accept them for disposal

**Key Take Away:** The IWCS remains safe and fully protective for site workers and the public



# NFSS REMEDIATION PHASES

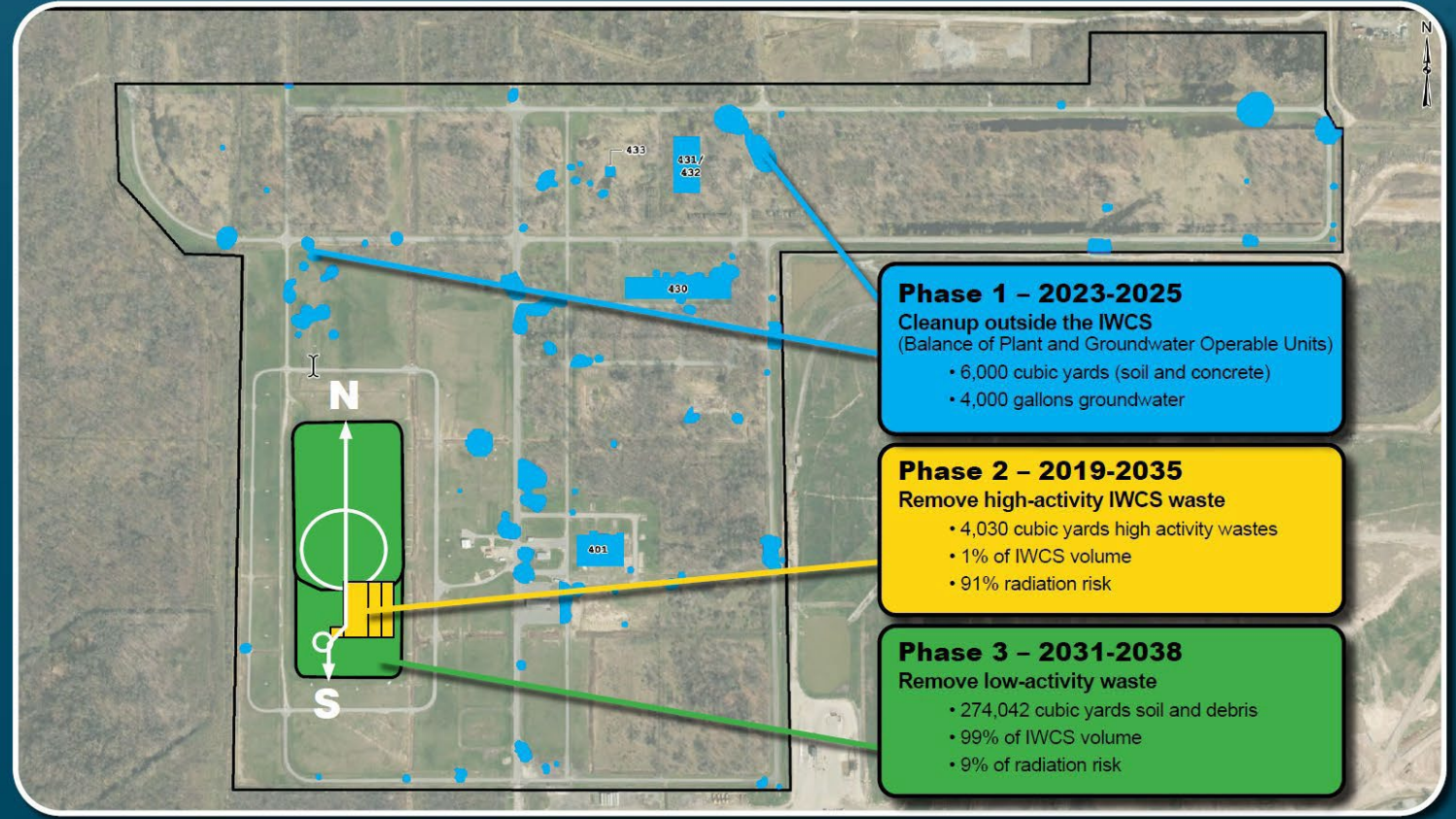
## REMEDIATION PHASES

### NIAGARA FALLS STORAGE SITE (NFSS) CLEANUP FAST FACTS

**Permanent Removal:** The cleanup removes the Interim Waste Containment Structure (IWCS) and contaminated soils, groundwater, roadbeds, and concrete outside the IWCS (Balance of Plant and Groundwater Operable Units [OUs]) for disposal at facilities designed to safely and permanently store hazardous wastes

**Project Phases:** Removal will occur in three phases shown here

- Phase-1:** Is underway and on schedule for the the removal contractor to mobilize in Spring 2024. This cleanup of soils, groundwater, roadbeds, and contaminated concrete foundations must be completed to allow Phase-2 to begin.
- Phase-2:** Is the most complex phase of the project – removing the high-activity wastes. This phase requires detailed design and construction of infrastructure before removal of the high-activity wastes can begin. The contract for the planning and design of this phase is awarded and underway. Completion of Phase-2 removes 90% of the radiation risk at the site.
- Phase-3:** Removes a large volume of low activity IWCS







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# NFSS REMEDIATION PHASES



## PHASE 1

Balance of Plant and Groundwater Operable Unit Record of Decision (2022)



Contract Award (2023)



Implement Cleanup (2023-2026)



Phase 1

Phase 2

Phase 3

Complete

## PHASE 2

PLANNING (2022-2026)

DESIGN (2023-2026)

REMOVE HIGH-ACTIVITY IWCS WASTE  
BUILD (2025-2029)  
REMOVE (2029-2035)

## PHASE 3

REMOVE LOW-ACTIVITY IWCS WASTE (2031-2038)

IWCS Record of Decision (2019)



Design Contract Award (2021)



- Update Cost and Schedule Risk Analysis
- Updated Transportation Analysis
- Transportation Routes
- Detailed IWCS Inventory Model
- Construction and Remediation Phasing Schedule
- Emergency Response Plan
- Contract Management Plan
- Community Relations Plan



- Prepare Detailed Design Plans and Specifications
- Value Engineering Study
- Remediation Technology Evaluation
- Prepare Contract Packages
- Advertise and Award Construction and Remediation Contracts



Field Office



Roads, Staging Area, Infrastructure



Radon Control Structure



Waste Processing Plant



Remote High-Activity Waste Excavation



High-Activity Waste Treatment and Transport



Waste Disposal



Excavation



Transportation and Disposal

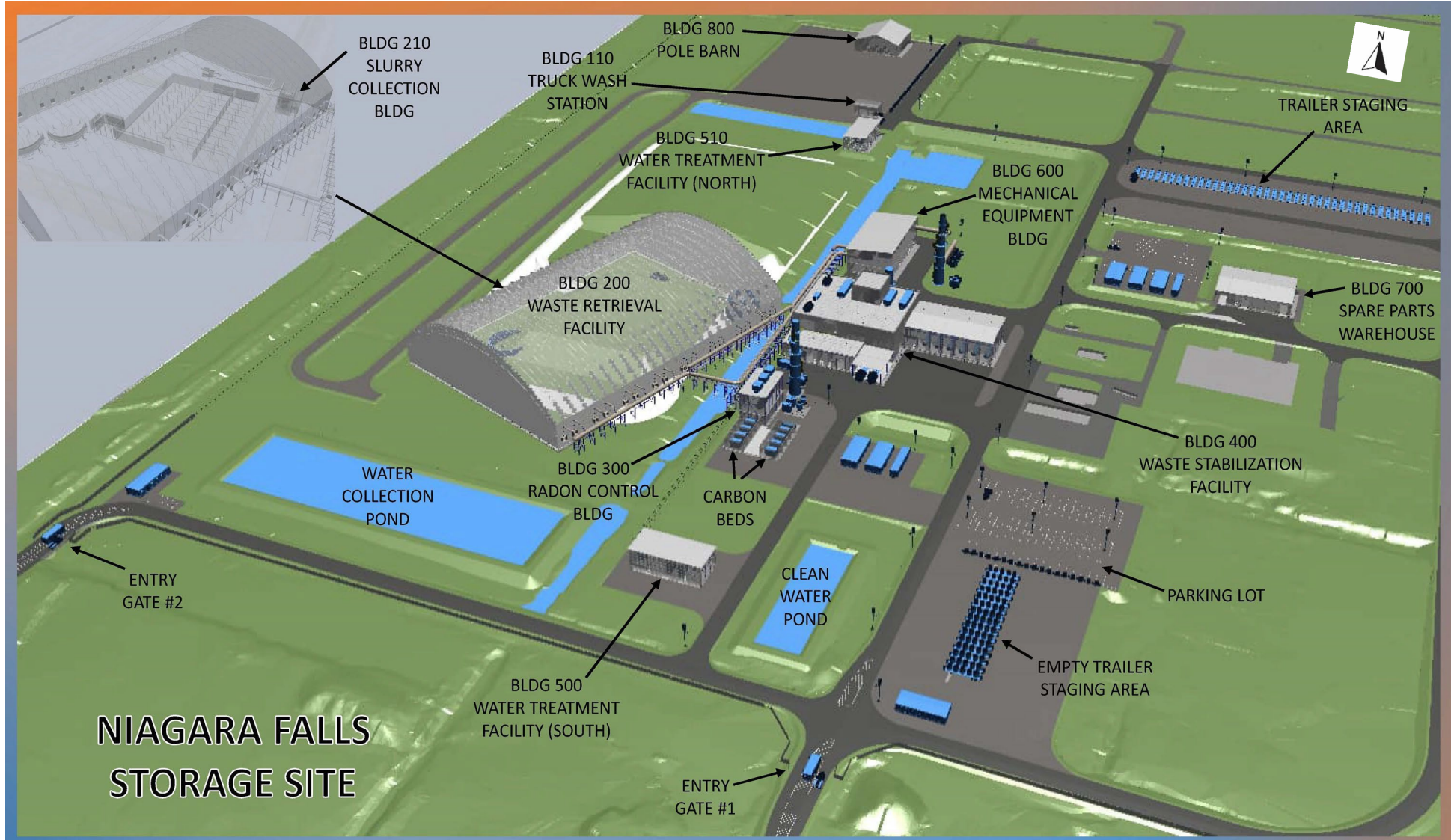
The schedule shown is the Corps of Engineers' best estimate and will be refined as the design is developed. The Corps of Engineers is striving to remove the IWCS as safely and quickly as possible.

After the Corps of Engineers cleanup is done, the site will transfer to the U.S. Department of Energy Office of Legacy Management for long-term care and potential redevelopment.

# PROJECT DELIVERY - IWCS REMEDIAL DESIGN

## CONCEPTUAL DESIGN (30%)

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## QUESTIONS



# News from the Corps Emails & Social Media “Push”

We are committed to sustain early and frequent updates on progress

800-833-6390 (Option 4)

[fusrap@usace.army.mil](mailto:fusrap@usace.army.mil)

Follow us on Social Media:

<https://www.facebook.com/BufaloDistrict>

[twitter.com/USACE\\_Buffalo](https://twitter.com/USACE_Buffalo)

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Administrative Record is available on the project website

<https://www.lrd.usace.army.mil/Mission/Projects/Article/3612360/niagara-falls-storage-site/>

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**BUFFALO BILLS STADIUM**

American Society of Military Engineers  
June 6, 2024



**ERIE COUNTY STADIUM CORPORATION**

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Byron W. Brown

Paul Brown

Brenda Williams McDuffie

Thomas Quatroche

Eric Reich

Satish Tripathi

Jeremy Toth

Bill Geary

April Baskin

Bryan Fiume









CONCRETE  
STRUCTION 1959

# GROUNDBREAKING

June 5, 2023





# EXCAVATION

- 650,000 CY material removed
- 100,000 LBS explosives used
- Stored on site for future fill material
- Completed on October 12, 2023



# “BOTTOMING OUT”





# FOUNDATIONS

- 2,220 LF Support of Excavation Wall
- 156 Rock Anchors
- 480 Footers
- 75 Piers
- 145 Grade Beams









# STEEL





# STEEL

- First piece installed on January 26, 2024
- Erected both clockwise/counter-clockwise
- Five (5) Tiers
- 24,000 Tons
- 2,700+ Steel Pieces installed to date
- Tiers 1 & 2 - 14% Complete
- Completion January 2025



















# THANK YOU

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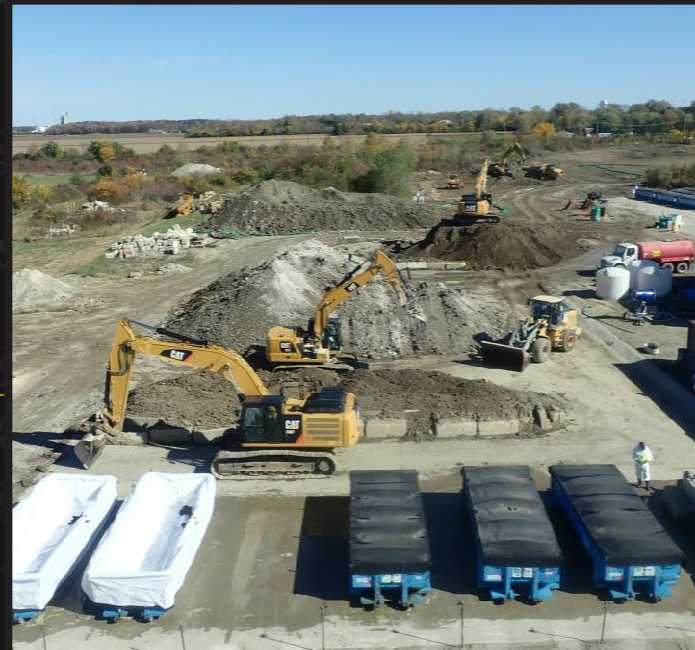
# BUFFALO DISTRICT OVERVIEW

Presented by Jeffrey Ernest  
District Contracting Chief  
Buffalo District

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06 JUN 2024



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# AGENDA



- FUSRAP Program and Opportunities
- Additional FY24/25 Opportunities
- Doing Business with USACE
- Questions and Answers



# LRD FUSRAP PROGRAM OVERVIEW



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# LRD Formerly Utilized Sites Remedial Action Program Overview



**Legend**

- Investigation - 2 sites
- Remedial Design - 1 Site
- Under Remediation - 5 sites
- Preparing for Closeout - 1 site
- Completed - 5 sites
- Congressional Districts



Congress: REP Latta (OH-05)  
 Current Phase: Remedial Action  
 Cleanup Start: 2015  
 Cleanup Complete: 2026



Congress: REP TBD (NY-26)  
 Current Phase: Remedial Action  
 Cleanup Start: 2023  
 Cleanup Complete: 2034



Congress: REP Brown (OH-11)  
 Current Phase: Remedial Action  
 Cleanup Start: 2024  
 Cleanup Complete: 2027



Congress: REP Thompson (PA-15)  
 Current Phase: Remedial Action  
 Cleanup Start: 2007  
 Cleanup Complete: 2032



Congress: TBD (NY-26)  
 Current Phase: Remedial Action  
 Cleanup Start: 2024  
 Cleanup Complete: 2026

**For more information visit:**  
<https://www.lrd.usace.army.mil/Mission/Programs/Article/3649839/formerly-utilized-sites-remedial-action-program/>







# SHALLOW LAND DISPOSAL AREA



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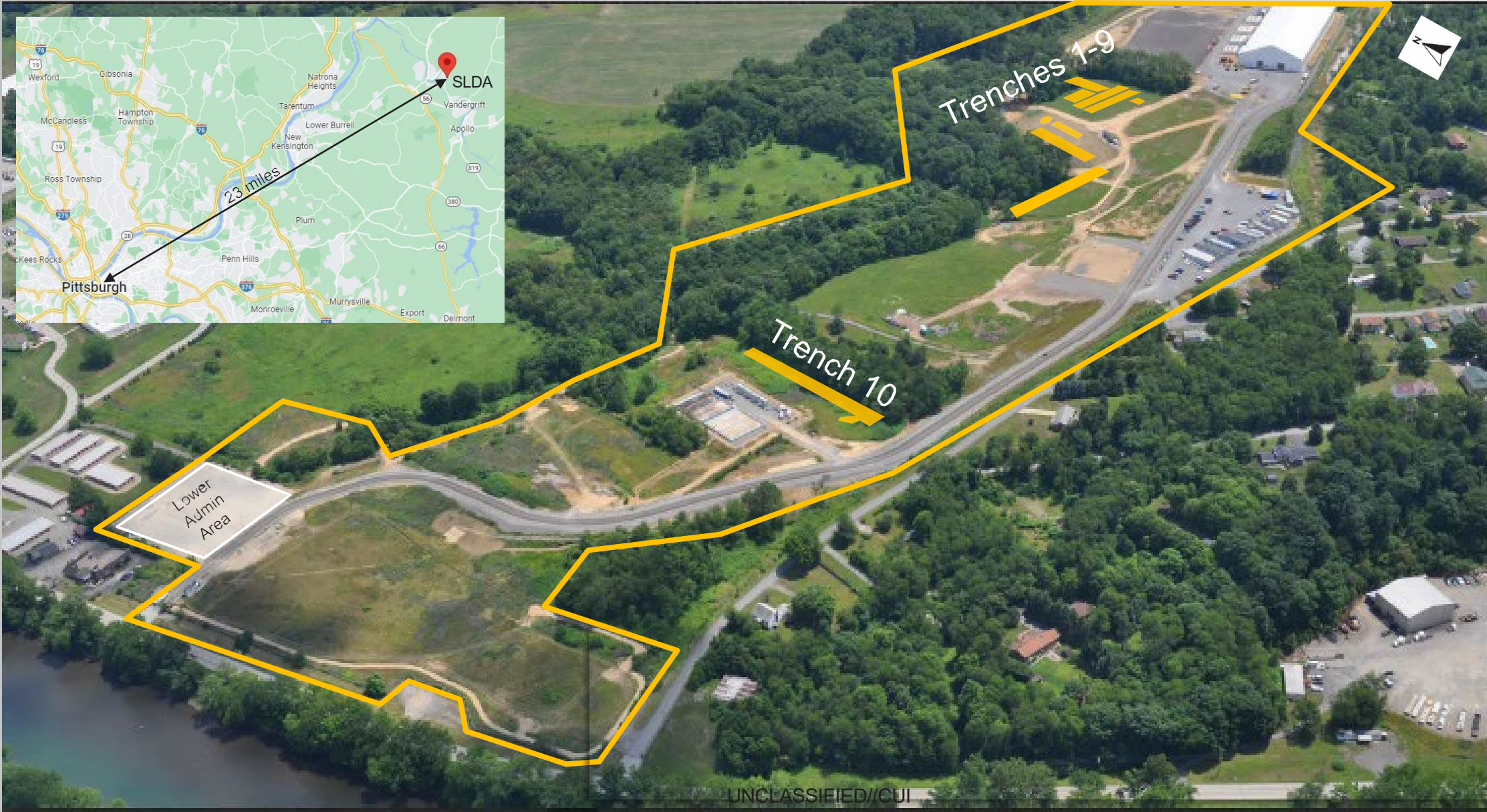
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# PROJECT SITE







## **Current Contract**

- 10 Year Ordering Period ends April 2027 (\$350M capacity)
- Currently coordinating a Justification and Approval (J&A) to increase capacity by \$85M to start remediation Summer 2025

## **Future Contract**

- \$250M - \$500M to complete cleanup
- If J&A approved, anticipate this stand-alone contract to include trenches 1, 10, and possibly 7
- Targeting Jan 2025 RFP release and an Oct 2025 award date
- Full and Open Competition



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## Current Status

- Right of Entry for ATI property obtained (61 acres)
- DOJ condemnation action for excised property underway (9 acres)
- Finalizing scope and RFP

ATI  
(61 acres)

Excised  
Property  
(9 acres)



## Future Contract

- \$249M Single Award Task Order Contract
- Targeting Sep 2024 RFP release and a June 2025 award date
- Small Business Set Aside
- First task order will include remediation on the ATI property



# FY24/25 NON FUSRAP OPPORTUNITIES



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# FY24/25 OTHER CONTRACTING OPPORTUNITIES

| Project Title                  | Solicitation Quarter | Acq Strat       | Est Award Amount |
|--------------------------------|----------------------|-----------------|------------------|
| Barcelona Dredging             | FY24 Q4              | Task Order (TO) | \$1M - \$5M      |
| Port Clinton Dredging          | FY24 Q4              | TO              | \$500K - \$1M    |
| Vermillion East Pier           | FY24 Q4              | TO              | \$5M - \$10M     |
| Emerald Shiner Fish Passage    | FY24 Q3              | IFB             | \$5M - \$10M     |
| Boston Mills                   | FY25 Q1              | IFB             | \$10M - \$25M    |
| USDA Geneva                    | FY24 Q3              | Best Value      | \$25M - \$100M   |
| USDA Pesticide Filling Station | FY24 Q4              | IFB             | \$1M - \$5M      |
| Big John Salvage - River Area  | FY25 Q1              | Best Value      | \$25M - \$100M   |
| Big John Salvage - Upland Area | FY25 Q2              | Best Value      | \$25M - \$100M   |
| West Valley Spillway Repair    | FY24 Q4              | IFB             | \$5M - \$10M     |
| Oswego Outer West BW           | FY24 Q4              | TO              | \$10M - \$25M    |
| Bird Island Pier               | FY24 Q4              | TO              | \$10M - \$25M    |
| Lorain Breakwater              | FY24 Q4              | TO              | \$10M - \$25M    |
| Buffalo South Breakwater       | FY24 Q4              | TO              | \$1M - \$5M      |
| Huron West Pier Repair         | FY24 Q3              | TO              | \$5M - \$10M     |
| Buffalo CDF #4 Berming Raising | FY24 Q4              | TO              | \$10M - \$25M    |
| District Water Line            | FY24 Q4              | 8(a)            | \$250K - \$500K  |



# DOING BUSINESS WITH USACE



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# DOING BUSINESS WITH USACE

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- Contact me at anytime! [Jeffrey.g.ernest@usace.army.mil](mailto:Jeffrey.g.ernest@usace.army.mil) Direct Line is 716-879-4173
- Small Business Specialist is Dorothy Jones [Dorothy.J.Jones@usace.army.mil](mailto:Dorothy.J.Jones@usace.army.mil)
- Be registered in SAM.GOV
- Search for Opportunities on sam.gov
  - Click on “Search Contract Opportunities”
  - In the “Keywords” field, type W912P4\*
- Other District Department of Defense Activity Address Codes (DODAACs)
  - Louisville – W912QR
  - Nashville – W912P5
  - Huntington – W91237
  - Pittsburgh – W911WN
  - Detroit – W911XK
  - Chicago – W912P6

# QUESTIONS AND ANSWERS



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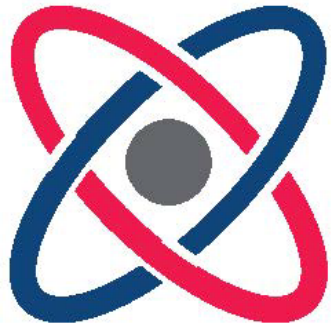


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