



US Army Corps
of Engineers®
Buffalo District

Niagara Falls Storage Site Remediation

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

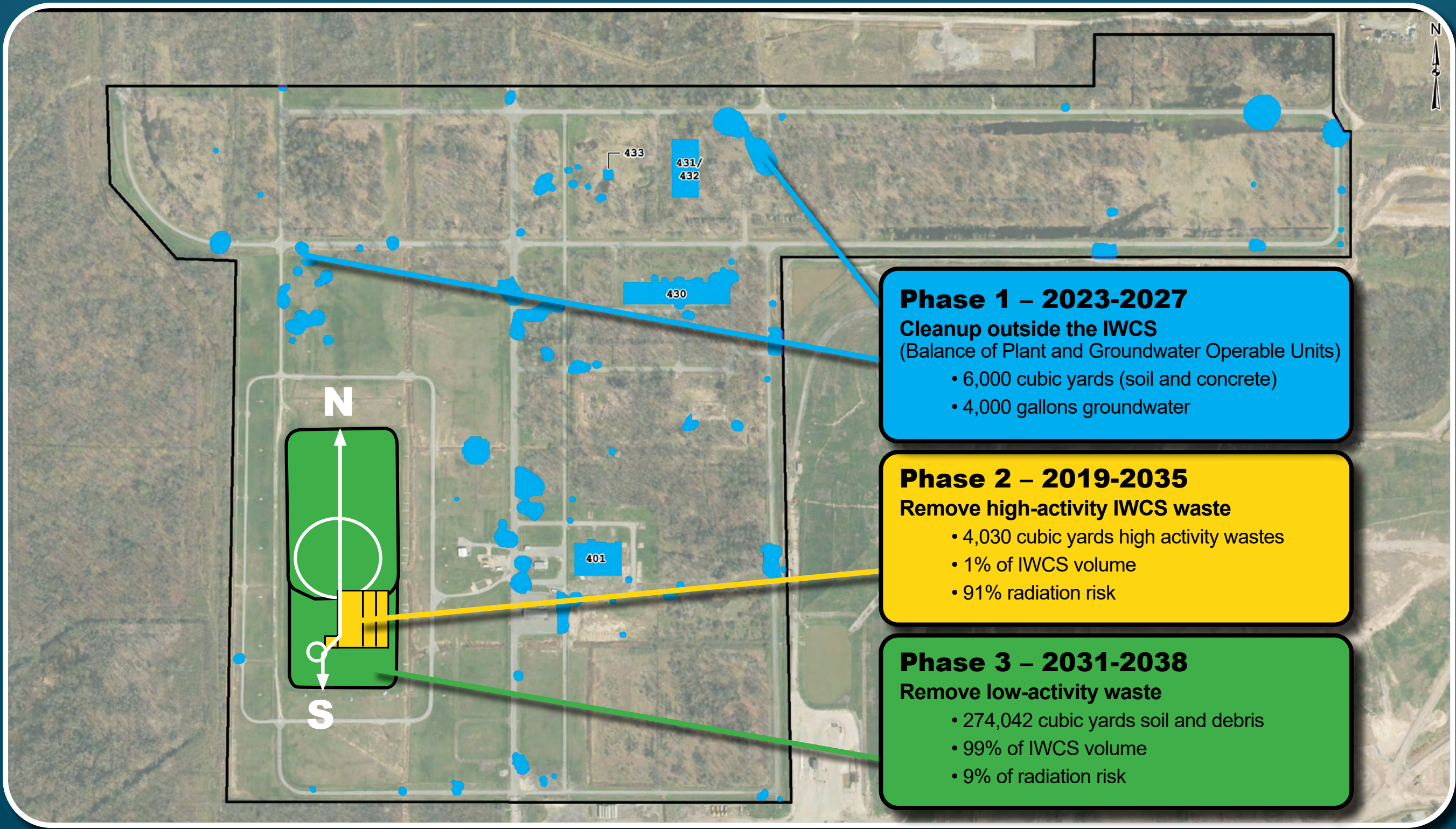
Project Phases: Removal will occur in three phases shown here

Phase-1: Is underway and on schedule to award the removal contract in 2023. 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 soils and wastes

<https://www.lrb.usace.army.mil/Missions/HTRW/FUSRAP/Niagara-Falls-Storage-Site/>

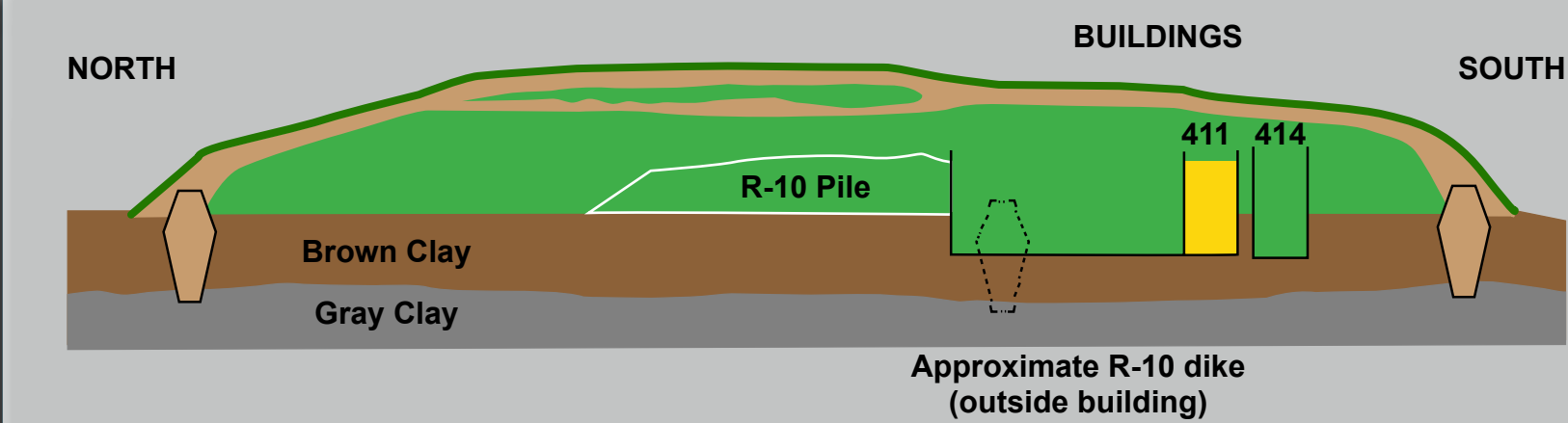


Phase 1 – 2023-2027
Cleanup outside the IWCS
(Balance of Plant and Groundwater Operable Units)
• 6,000 cubic yards (soil and concrete)
• 4,000 gallons groundwater

Phase 2 – 2019-2035
Remove high-activity IWCS waste
• 4,030 cubic yards high activity wastes
• 1% of IWCS volume
• 91% radiation risk

Phase 3 – 2031-2038
Remove low-activity waste
• 274,042 cubic yards soil and debris
• 99% of IWCS volume
• 9% of radiation risk

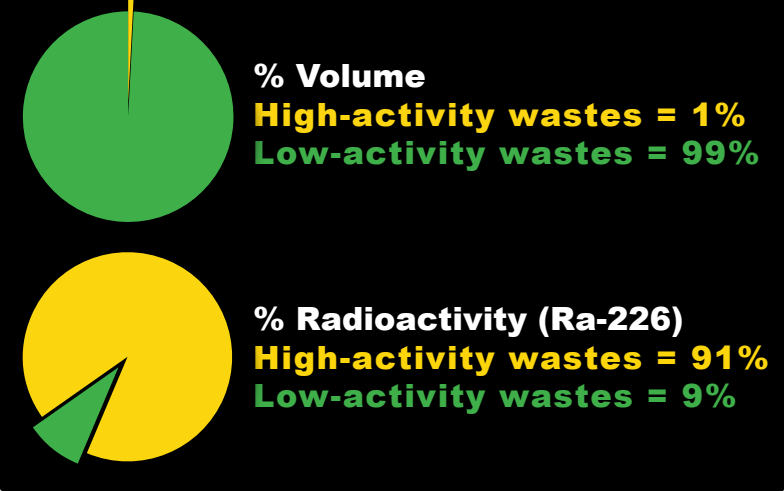
IWCS NOW



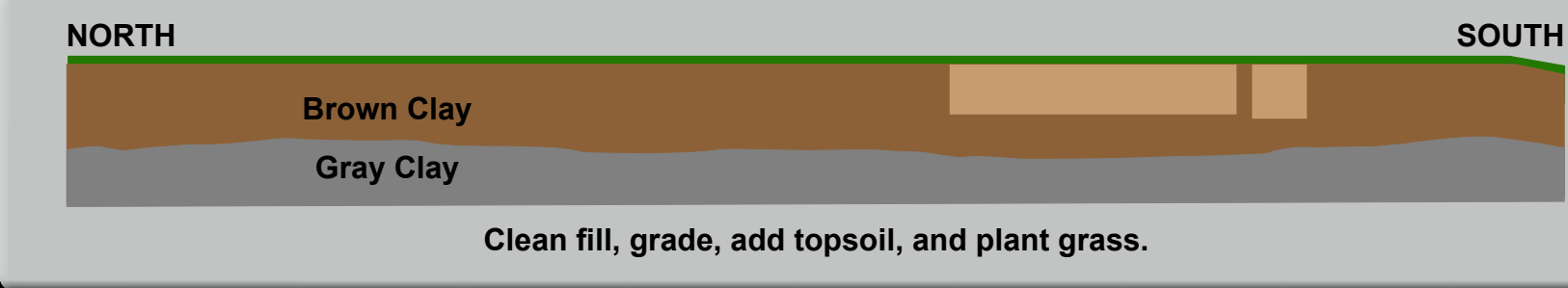
What needs to be removed?

4,030 cubic yards of high-activity wastes

274,042 cubic yards of low-activity wastes



IWCS REMOVED



PHASE 1

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

Contract Award (2023)

Implement Cleanup (2023-2027)



- Phase 1
- Phase 2
- Phase 3
- Complete

PHASE 2

PLANNING
(2022-2023)

DESIGN
(2023-2026)

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

PHASE 3

REMOVE LOW-ACTIVITY
IWCS WASTE
(2031-2038)

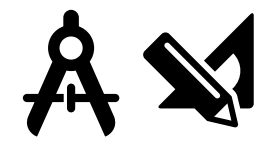
IWCS Record of Decision (2019)



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.