



**US Army Corps
of Engineers®**

Niagara Falls Storage Site



Project Location: The Niagara Falls Storage Site (NFSS) is located in Lewiston, NY on a 191-acre, Federally owned remnant of the larger Lake Ontario Ordnance Works (LOOW), which produced trinitrotoluene (TNT) during World War II. The site was used later by the wartime Manhattan Engineer District (MED) to manage and store radiologic residues derived from the early atomic weapons programs.

Project Description: The EWN concepts focus on phytoremediation techniques that would minimize the expansion of uranium contamination in groundwater. Plantings would be designed to maximize evapotranspiration from the soil fill around impacted sanitary sewer lines and penetrate the abandoned sewer lines to scavenge residual water. Vegetation species also will be evaluated for radionuclide uptake for use in other areas of the site where surface soils are impacted. The intended outcome will minimize the transport of radionuclides from source media and lessen the potential for environmental cross contamination using non-invasive plants to mitigate radiologic exposures in the environment.

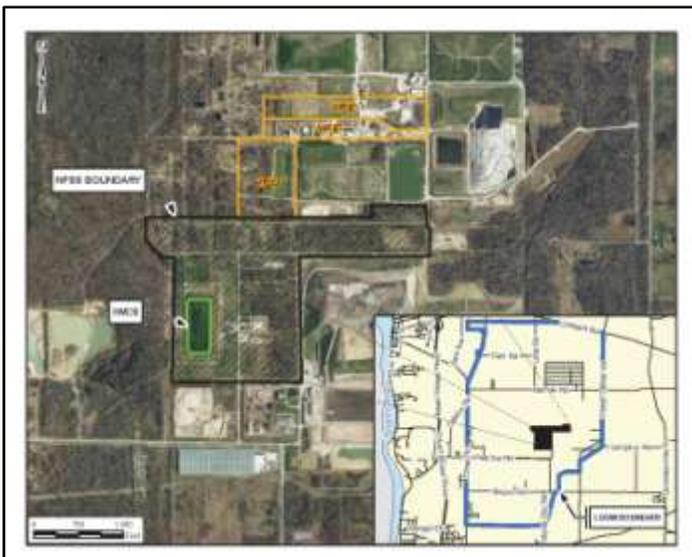
Project Authorities: Formerly Utilized Sites Remedial Action Program (FUSRAP) was initiated in 1974 to identify, investigate, and clean up or control sites throughout the United States that were part of the Nation's early atomic weapons and energy programs during the 1940s, 1950s, and 1960s. Congress transferred management of FUSRAP from the U.S. Department of Energy to the U.S. Army Corps of Engineers in 1997. The Corps follows the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the National Oil and Hazardous Substances Pollution Contingency Plan.

Non-Federal Partner: No cost share sponsor is required under the FUSRAP.

EWN Application: Radiologic source areas and impacted infrastructure have contaminated soils and groundwater in various areas throughout the site. The demonstration project will document how well phytoremediative components minimize contaminant transport and lessen maintenance costs.

ERDC Participation: Afrachanna Butler will provide expertise in designing and evaluating the study.

Project Status: USACE is coordinating the demonstration project.



Project Milestones	
USACE LRB-ERDC Meeting	05 MAR 2015
Scope preparation, design study, component installation	Fall 2015
Data collection and analysis for reporting path forward	Fall 2017

Estimated Project Costs	
Federal	\$750,000
Non-Federal	\$0
Total	\$750,000

Point of Contact	
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