

Remediation Experience Overview

Northwind Engineering, LLC (Northwind) is an American Indian, Economically Disadvantaged, Woman-Owned Small Business offering expert environmental remediation services to federal and commercial clients nationwide and internationally. Northwind has extensive experience as a prime contractor, self-performing on complex nationwide HTRW and environmental remediation projects for clients including USACE, EPA, Westinghouse, NASA, US Army, US Air Force, and US Forest Service. **Our experience encompasses the full scope of remediation for multiple Superfund sites; we know the procedures, the regulations, and the best practices to get the job done efficiently, safely, and completely.**

Why Northwind?

Key Northwind Benefits

- ✓ Experience working with **nine USACE districts**
- ✓ Extensive **radiological and chemical remediation** experience
- ✓ Seasoned **management team** with proven track record on high-complexity remediation projects
- ✓ **\$4M+** fleet of heavy equipment
- ✓ **DCAA/DCMA** audited for cost-reimbursable work
- ✓ Strong socioeconomic status meets **four separate set-asides:**
 - American Indian
 - Economically Disadvantaged Women-Owned
 - Disadvantaged
 - Woman-Owned Small Business
- ✓ Bonded and insured
- ✓ Winner of the **2011 U.S. Small Business Administration Minority Small Business of the Year** and the **2015 DoD Nunn-Perry Award**



To the left, Northwind personnel and equipment perform remedial excavation of radiologically contaminated soil at the decommissioning of a former nuclear fuel rod facility. After excavation, Northwind transported this material to the designated disposal area and ensured safe disposal by sealing the waste with a clay cap.

HTRW Concerns Remediated

Northwind has remediated a wide array of highly complex, highly volatile hazardous materials for federal and commercial clients across the globe. The table to the right provides a brief overview of our remedial experience.

Client/Facility	Chemical Concerns
Hematite Fuel Rod Facility	Radioactive (Enriched Uranium and TEC-99), TCE, asbestos, oil and grease, Class D waste
National Alliance T&D of Rad. and Chemical Hazardous Materials	Radioactive and listed waste, chemical
USACE New York	Radioactive (LSA-I) waste
Solvay Chemical	Technologically Enhanced Naturally Occurring Radioactive Material (TENORM)
EPA Madison County Mines	Lead-contaminated soil
DHS FEMA Historic Renovation	Asbestos, lead-based paint, chemical
DLA Warren, OH and Scotia, NY	Heavy metals, asbestos, lead-based paint, chemical, pesticides, herbicides
USACE Rock Island	Chemical, pesticides, herbicides
USPFO for PA	Chemical, asbestos
99th RRC US Army AFOS	Asbestos, lights, chemical PCB, fuel
USACE Norfolk -- Dover AFB, Langley AFB, Langley NASA, Fort Stewart	Chemical, oil and grease, asbestos, lead-based paint, mold, fuel
USACE Norfolk -- Dover AFB, Langley AFB	Chemical, oil and grease, asbestos, lead-based paint, fuel
USACE Philadelphia -- Dover AFB	Asbestos, lighting, chemical, oil
USFS Allegheny	Asbestos, lighting, chemical, oil, lead-based paint, fuel
Pueblo Army Depot	Chemical, TNT
Fort Carson	Chemical
WY DEQ AML	Chemical
US Forest Service	Chemical, asbestos

On-Site Expertise

Northwind offers a host of seasoned professionals to plan, manage, and execute complex remedial actions from inception to completion. A brief overview of the on-site remedial expertise offered by Northwind is included below.



Radiological Material Remediation

Northwind's familiarity with and expertise in identifying, containing, removing, transporting, and disposing of radiologically active material is diverse and longstanding. We have the capacity to remediate large quantities in a wide range of radiological material, and we have the experience to do so safely, with minimal impact on the environment, and in an efficient, cost-effective manner. Our personnel are well-versed in the procedures and regulations surrounding radiological material remediation, and our safety, quality, and medical surveillance plans ensure the health and well-being of our personnel on sites containing this type of hazardous material.

Our team has planned, managed, and executed the full scope of complex radiological remediation projects, including Superfund, FUSRAP, and commercial decommissioning projects.

Our seasoned management team utilizes Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) methodology to ensure both the effectiveness of remedial efforts and compliance with Nuclear Regulatory Commission (NRC), federal, state, and local regulations.



To the right, Northwind tests soil for hazardous contaminants on a remediation project

Transportation and Disposal

Northwind is expert in the transportation and disposal of HTRW materials. We have our own in-house trucking company and offer a longstanding relationship with a hazardous waste railcar firm, expediting and streamlining the transportation process while reducing cost to our clients. Our personnel are well-versed in the procedures and regulations surrounding the containment, transportation, and disposal of HTRW materials.



Northwind transporting hazardous materials from a FUSRAP site by rail

Subsurface Exploration

Northwind's well-established expertise in remediation practices extends beyond the surface, both figuratively and literally. As a result of our work, we are experienced and skilled at exploring subsurface structures such as piping systems, levee systems, and gravity drains, and recognize the threats posed by damage to these types of systems.



Steel casings and bollards decommissioned and staged for reuse at the USACE Bear Creek Remedial Action and Site Closure

Risk Identification and Mitigation

Northwind's longstanding, in-depth, and widely varied HTRW screening, removal, and remediation experience has afforded us with a wealth of knowledge regarding both regulatory requirements and innovative best practices for effective, safe, timely, and cost-effective performance of a wide array of HTRW services. Through our experience, we have become expert in anticipating, preparing for, and mitigating complications that arise during project completion. Northwind has completed the gamut of environmental remediation tasks, and as such, has developed company-wide measures to avoid or minimize project impact due to complications.

Northwind is available for teaming and subcontracting on remediation projects nationwide. Contact us today to learn more about how Northwind can benefit your next remediation project.