



**MuniRem<sup>®</sup>**  
**ENVIRONMENTAL**

# COMPANY PROFILE

SAFE & COST-EFFECTIVE  
NEUTRALIZATION &  
REMEDIATION OF  
EXPLOSIVES & OTHER  
ENERGETICS



SAFELY ELIMINATING  
**EXPLOSIVE RISKS**  
WITHOUT DETONATION



[www.munirem.com](http://www.munirem.com)



[partnerships@munirem.com](mailto:partnerships@munirem.com)



+1 (706)-316-3525

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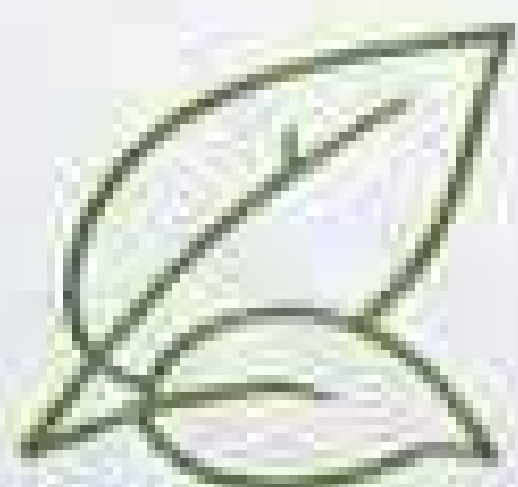
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**PROVEN.  
SAFE.  
SUSTAINABLE.**

Neutralizing explosive  
hazards without detonation  
for a safer world.





# CHEMICAL NEUTRALIZATION OF EXPLOSIVES, NOT DETONATION

MuniRem® Environmental provides advanced solutions for the safe destruction of explosives, energetic materials, and chemical warfare agents. Serving federal agencies, military organizations, defense manufacturers, and government contractors, our patented non-thermal chemical neutralization technology eliminates hazardous materials without detonation, combustion, or thermal treatment, offering a safer, more controlled alternative to traditional disposal methods.

Independently validated by U.S. federal agencies, commercial explosives manufacturers, and leading international universities, MuniRem® technology supports demilitarization, decontamination, safe recovery and disposal, and facility transition operations. Recognized by the U.S. Environmental Protection Agency (EPA) and the National Academies of Sciences, Engineering, and Medicine as a mature alternative to Open Burn/Open Detonation (OB/OD), MuniRem® helps organizations reduce operational risk, enhance personnel safety, achieve regulatory compliance, and advance environmental stewardship goals worldwide.



— SAFER  
SOLUTIONS



— ENVIRONMENTAL  
STEWARDSHIP



— PROVEN  
PERFORMANCE



# HOW MUNIREM<sup>®</sup> WORKS

Our solution destroys energetic compounds at the molecular level, transforming hazardous energetic materials into non-hazardous byproducts without detonation, combustion, or harmful emissions.

## 01 APPLY MUNIREM<sup>®</sup> REAGENT



Penetrates the material and initiates neutralization on contact.

## 02 CHEMICAL NEUTRALIZATION & DESTRUCTION



Breaks down energetic compounds into non-energetic byproducts.

## 03 SAFELY INERTED



Produces a non-hazardous end product safe for handling and disposal.

### THE MUNIREM<sup>®</sup> ADVANTAGE



NO DETONATION  
REQUIRED



REDUCED RISKS  
TO PERSONNEL



ENVIRONMENTALLY  
RESPONSIBLE



SAFER DISPOSAL AND  
SITE MANAGEMENT

MuniRem<sup>®</sup> produces RCRA-compliant output streams and has been recognized for its environmental leadership as a 2019 "Planet Protector". We have safely neutralized and destroyed more than 100 tons of explosives and decontaminated over one million square feet of facilities worldwide without a single detonation or incident.





# OUR SOLUTIONS

Mission-ready capabilities for explosive hazard elimination, demilitarization, decontamination, and environmental remediation.



01

## BULK EXPLOSIVES DISPOSAL

Safely neutralize and destroy bulk explosives without detonation or thermal treatment.



02

## UXO & DEMILITARIZATION OPERATIONS

Safely neutralize and destroy UXO and obsolete munitions through chemical neutralization.



03

## FACILITY & EQUIPMENT DECONTAMINATION

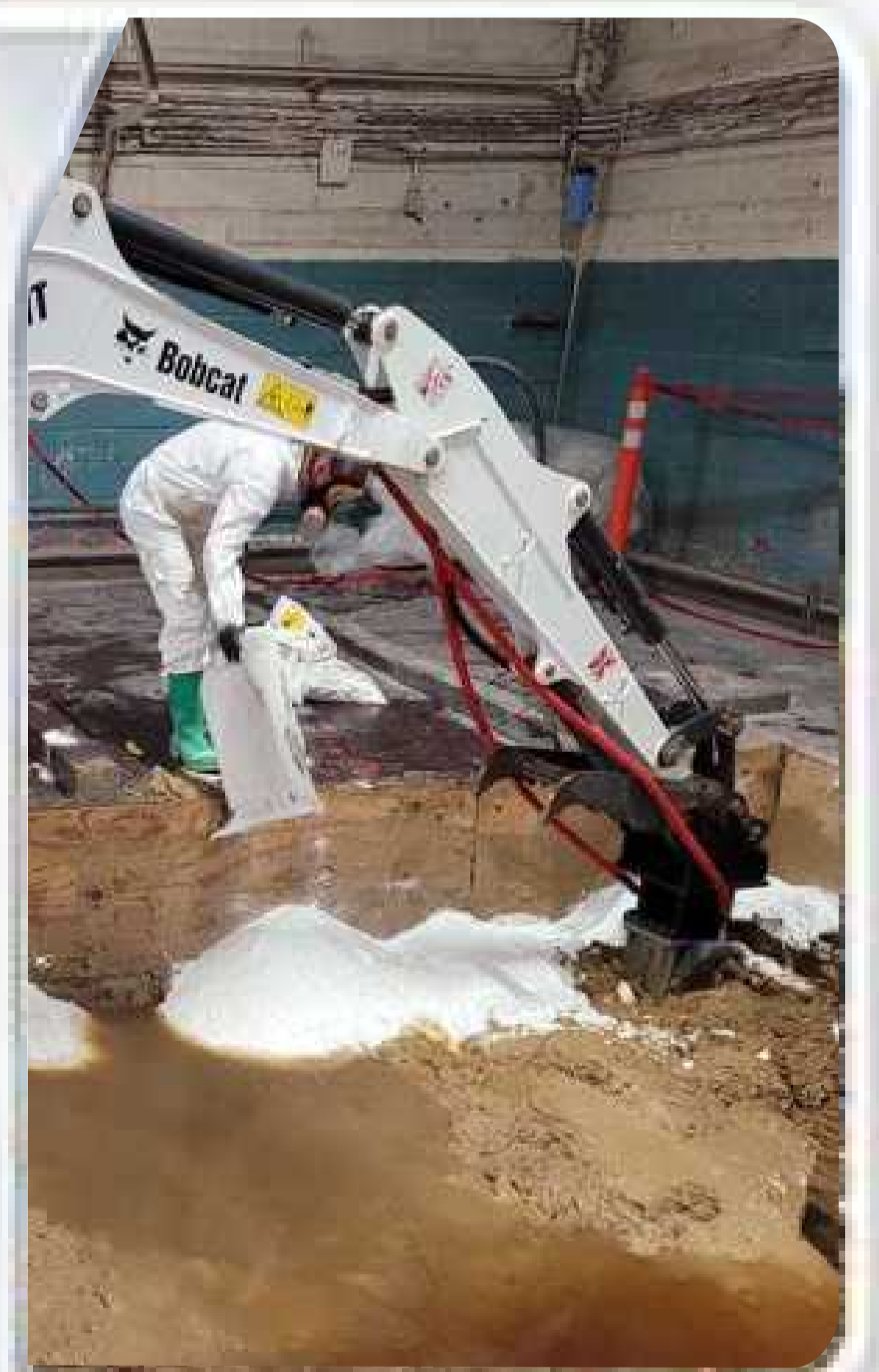
Safely remove explosive residues from buildings, equipment, and infrastructure for safer operations.



04

## CONTAMINATED SOIL & GROUNDWATER REMEDIATION

Safely treat explosive-contaminated soils and groundwater to reduce risk and support site restoration.



05

## HUMANITARIAN DEMINING SUPPORT

Safely support explosive hazard reduction, land restoration, and community recovery in post-conflict environments.



# CASE STUDIES

Proven performance in real-world environments.  
 Delivering safe, cost-effective, and environmentally responsible solutions for complex explosive hazards.

**01**

## EXPLOSIVES-CONTAMINATED MUNITIONS FACILITY

Client: Orica

Task: Removal of Explosive Hazards from Buildings and Equipment

- ✔ Neutralized explosive residues in a former munitions production facility.
- ✔ Eliminated explosive hazards from equipment, structures, and concrete surfaces.
- ✔ Enabled safe asbestos removal, demolition, and disposal operations.
- ✔ Avoided thermal treatment and additional soil remediation requirements.
- ✔ Completed the project safely, ahead of schedule, and within budget.



**02**

## UNDERWATER UXO RECOVERY & MUNITION INERTING

Client: U.S. Army Corps of Engineers

Task: Inerting of Recovered Underwater Munitions On-Site

- ✔ Supported the recovery and treatment of Civil War-era underwater munitions during a major harbor expansion project.
- ✔ Safely neutralized explosive-filled projectiles without detonation or fragmentation risk.
- ✔ Eliminated explosive hazards while preserving historically significant munitions.
- ✔ Enabled transportation and handling as certified non-hazardous materials.
- ✔ Provided a safer and environmentally responsible alternative to traditional disposal methods.



# CASE STUDIES

Proven performance in real-world environments.  
 Delivering safe, cost-effective, and environmentally  
 responsible solutions for complex explosive hazards.

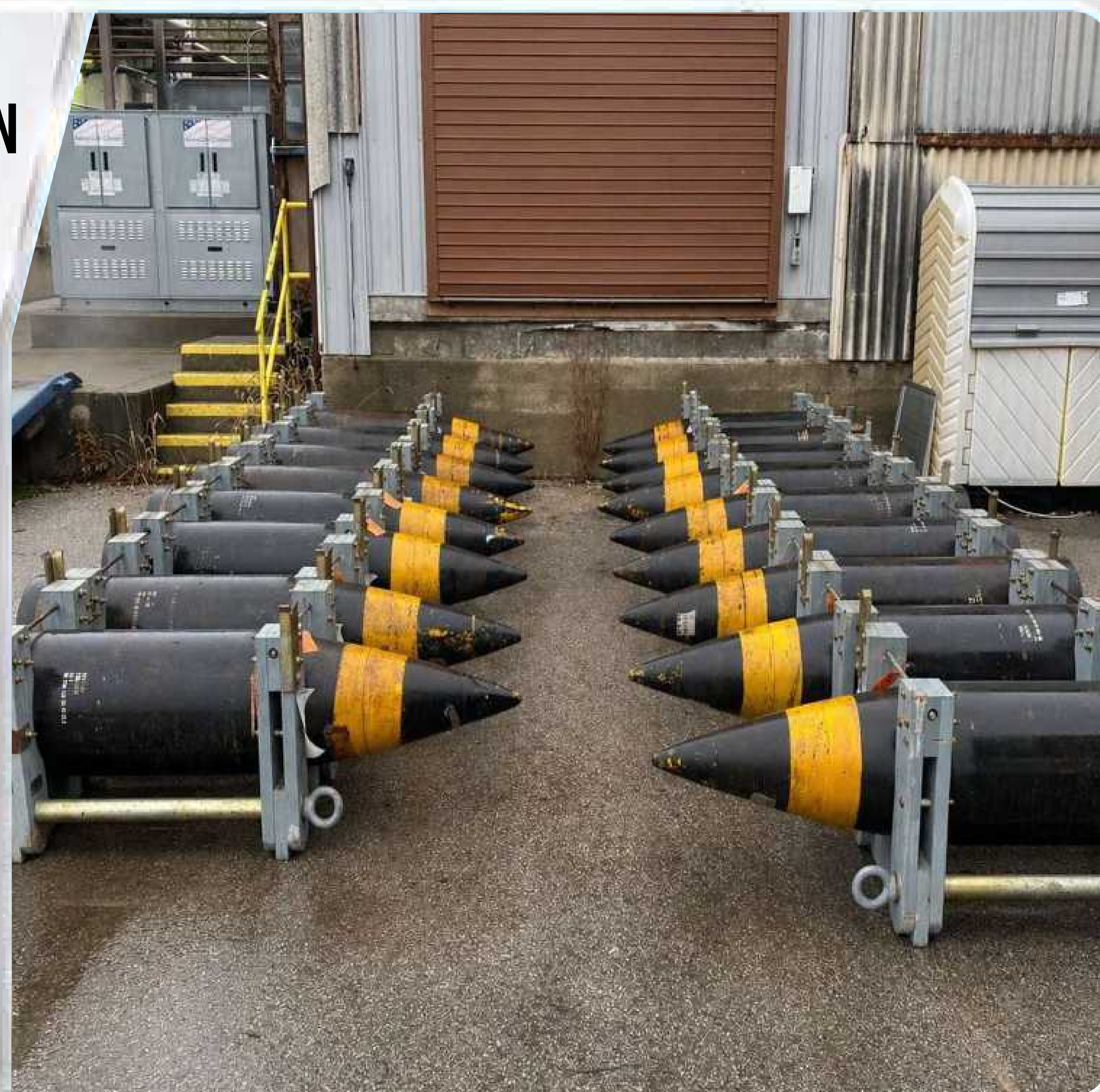
**03**

## BULK EXPLOSIVES NEUTRALIZATION & STOCKPILE REDUCTION

Client: U.S. Department of Defense

Task: Neutralization of Stockpiled Explosive D

- ✔ Neutralized reclaimed and stockpiled bulk explosives through chemical treatment.
- ✔ Destroyed energetic materials without detonation or thermal processing.
- ✔ Reduced explosive compounds to non-hazardous end products in less than one hour.
- ✔ Achieved non-detectable explosive residue levels on contaminated metal casings.
- ✔ Established a scalable protocol for bulk explosive destruction and materials decontamination.


**04**

## NEUTRALIZATION OF BULK SULFUR MUSTARD

Client: U.S. Department of Defense

Task: Neutralization of Bulk Sulfur Mustard

- ✔ Evaluated MuniRem<sup>®</sup> for the destruction of bulk sulfur mustard chemical warfare agent.
- ✔ Neutralized sulfur mustard without combustion, detonation, or hazardous by-product generation.
- ✔ Rapidly degraded chemical agent into less hazardous compounds within hours.
- ✔ Demonstrated effectiveness under realistic contamination conditions with soil, sand, and metals present.
- ✔ Validated a safer and environmentally responsible approach for chemical agent destruction and decontamination.

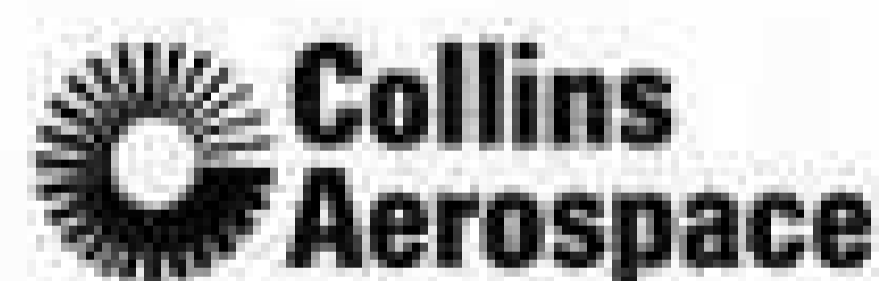
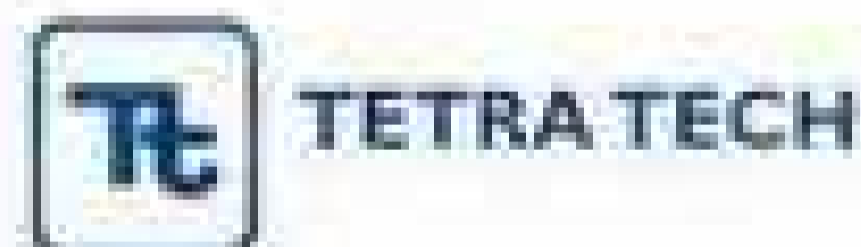
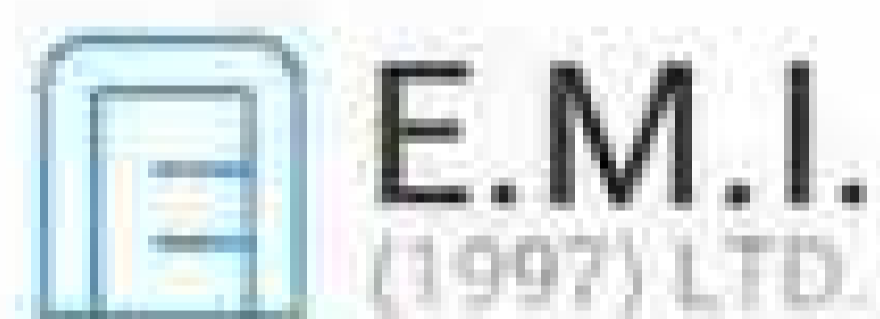
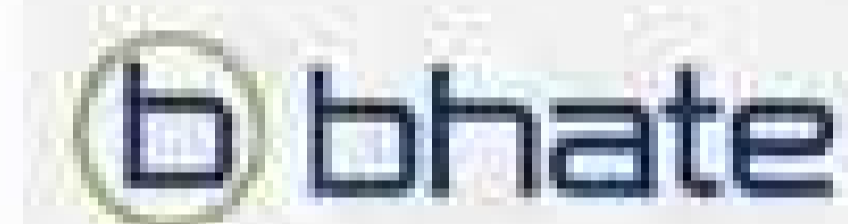
### MuniRem<sup>®</sup> Solution

Evaluated by the U.S. Army to safely neutralize and destroy explosives and bulk mustard.



# OUR PARTNERS

MuniRem<sup>®</sup> is trusted by leading defense organizations, Fortune 500 companies, and civil explosives manufacturers worldwide:



US Army Corps of Engineers<sup>®</sup>



**Hundreds of tons of  
energetics destroyed  
without a single detonation.**

# READY TO ELIMINATE EXPLOSIVE RISKS WITHOUT DETONATION?

Partner with MuniRem<sup>®</sup> to reduce operational risk, improve personnel safety, and support mission success through proven non-thermal explosive hazard neutralization technology.



## MISSION-PROVEN TECHNOLOGY

Validated through  
federal and defense  
applications.



## REDUCED RISK TO PERSONNEL

Controlled treatment  
without thermal  
destruction.



## ENVIRONMENTALLY RESPONSIBLE

Supports sustainable  
energetic material  
management.



## PROVEN ACROSS DIVERSE MISSIONS

From UXO remediation  
to bulk explosives  
disposal.

## CONTACT US



**WEBSITE**  
[www.munirem.com](http://www.munirem.com)



**EMAIL**  
[partnerships@munirem.com](mailto:partnerships@munirem.com)



**PHONE**  
+1 (706)-316-3525



**ADDRESS**  
738 Tucker Road,  
STE A Winder,  
GA 30680, USA

## LET'S DISCUSS YOUR MISSION REQUIREMENTS

Whether supporting EOD operations, demilitarization programs, UXO remediation, facility decontamination, or energetic material disposal, our team is ready to help identify the safest and most effective path forward.

