



Hurricane Industries, LLC is a Service Disabled Veteran Owned Small Business (SDVOSB) committed to hiring wounded warriors for the performance of high quality services in such specialty areas as Environmental Planning and Restoration, Abandoned Mine Assessment and Closure, and Specialized Training. Current areas of expertise include:

#### **Environmental Consulting Services**

Hurricane provides environmental consulting services for customers who require technical expertise in contaminant transport, remedial investigations, remedial design and operations, site closure, impact assessment, abandoned mine assessment and closure planning, and resource management. Our staff has provided these services across a variety of environmental issues including:

- Litigation consultation, strategy development and support;
- Natural Resource planning and impact assessment;
- Procurement assistance with emphasis on the use of performance-based contracting techniques;
- Technical peer review;
- Program development.

#### **Environmental Investigation and Remediation Services**

Hurricane staff members have extensive experience in providing site investigation and remedial services. We have worked under Voluntary Cleanup Programs (VCP), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and the Resource Conservation and Recovery Act (RCRA) programs and regulations. Dependent upon the regulatory drivers relevant for your site we can provide Preliminary Assessment/Site Investigation services (PA/SI) RCRA Facility Assessments (RFA), Remedial Investigation/Feasibility Studies (RI/FS), RCRA Facility Investigations (RFI), Corrective Measures Studies (CMS), Record of Decision (ROD), Statement of Basis (SoB), Remedial Design and Actions (RD/RA), Corrective Measures Implementation (CMI), permit assistance, and site closure.

Hurricane Industries' approach to site investigation and remedial actions is based on the principals of developing a clear and concise Conceptual Site Model (CSM) and using this model to develop appropriate Data Quality Objectives (DQOs). Using this process Hurricane is able to provide a cost effective approach with clear site objectives in mind. For example, Hurricane staff have implemented pilot tests to validate remedial action technology during the site investigation phases allowing for a reduced site cleanup schedule and ultimately saving our client money and potential fines due to ongoing litigation. We have applied this approach at military installations, dry cleaning facilities, former service stations, landfills, and industrial production facilities.

Hurricane Industries has the qualifications, experience, and capability to provide our services in a safe and efficient manner, either above or below ground and in confined and hazardous conditions, our record for safety is unblemished.



Our team of experts have direct experience with a wide range of contaminants and environmental conditions including:

- Chlorinated solvent plumes in soil and groundwater;
- Metal contamination in soil and groundwater;
- Uranium mine and mill tailings;
- Petroleum product residues in soil and groundwater;
- Explosive materials contamination in groundwater;
- Pesticides and chemicals associated with agricultural processes.

We have direct experience in the design and implementation of remedial actions utilizing technologies such as; Soil Vapor Extraction (SVE), In-Situ Air Sparging (IAS), In-Well Stripping (IWS), In-situ Chemical Oxidation (ISCO), Enhanced Density Driven Convection (EDDC), Enhanced Reductive Dechlorination (ERD), Bio-Augmentation, Dual Phase Extraction, Pump and Treat, Free Product Recovery, and Permeable Treatment Walls/Bio-barriers.

#### **Specialized Training**

Hurricane provides environmental training services, specifically running training programs to assist environmental managers in streamlining the remediation process. By developing a clear and concise Conceptual Site Model (CSM) using clearly defined Data Quality Objectives (DQOs), the remedial investigation and action phases can be focused to prevent excess time and expense researching extraneous details of a site.

For more information on Hurricane Industries' capabilities please contact one of our representatives or visit our website: [www.hurricane-industries.com](http://www.hurricane-industries.com).

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### **Abandoned Mineral Lands Assessment**

We have extensive experience in locating, inventorying, and assessing hazards at abandoned mineral land features. Our staff has comprehensive knowledge in both physical and chemical hazards associated with mineral land workings.

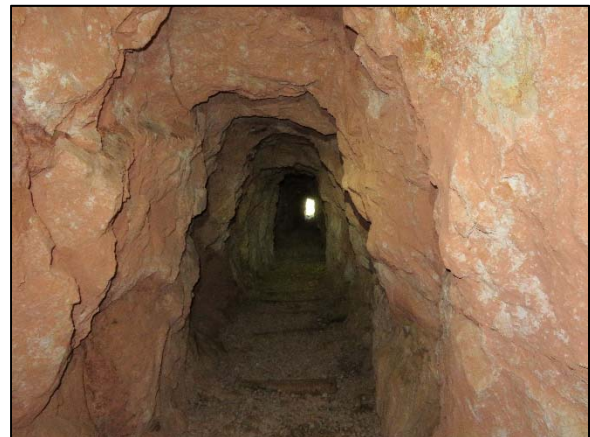
We use a variety of techniques to locate and assess abandoned mineral land sites. Through the use of GPS systems, aerial surveys, and professional experience our teams are capable of quickly locating and identifying sites that pose physical and/or chemical hazards.



By using field XRF technology (portable spectrometry) our field teams are able to determine local ore body background concentrations of metals and some metalloids to determine if beneficiation has occurred. This can assist in determining if sites require remediation under the National Contingency Plan.



We have experience at a wide variety of mineral land features including hard rock mines, coal mines, ore processing facilities, oil and gas wells, and other support facilities. We have worked across the United States in all types of terrain, including temperate rain forests, high deserts, alpine regions, and swamp lands. Hurricane Industries can provide the AML assessment services you require.





### Abandoned Mineral Lands Closure

Hurricane Industries staff have provided Abandoned Mineral Lands (AML) assessment and closure services for a variety of customers including the US Army, US National Parks Service, the US Forest Service, Office of Surface Mining, State administered programs, and the Bureau of Land Management. We have experience throughout the United States and have provided services in a wide variety of geographic locations and varying degrees of access including extremely remote and difficult access wilderness areas. Closure techniques applied to mines have included:

- Bat gates
- Cupolas
- Polyurethane foam (PUF) closures
- Backfill
- Culverts
- Fencing
- Cable nets
- Grating
- Site restoration



Hurricane Industries and its partners ensure our closures are completed under the highest standards of quality control to meet and often exceed our customer's requirements.

We employ optimization software to assist in calculating the minimum materials required for completion of bat gates and cupolas. Application of the software reduces the total material costs, streamlines construction, and minimizes logistics. In remote areas requiring helicopter support or extensive hiking, the optimization reduces mobilization and demobilization time and costs.

For more information on Hurricane Industries services and capabilities please visit our website:

[www.hurricane-industries.com](http://www.hurricane-industries.com) or contact:

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