



USA Environmental, Inc.
A Small Business • Munitions Response Services

**Professionalism
Responsiveness
Cost Effectiveness**

Geophysical Services

USAE employs an experienced geophysical team that provides full service environmental and munitions response services to include advanced geophysical classification (AGC) capabilities.



USAE is one of a select group of firms addressing potential explosives safety risks at munitions response sites (MRSs). Accredited by the ANSI National Accreditation Board (ANAB) to perform AGC under the Dept. of Defense (DoD) Advanced Geophysical Classification Accreditation Program (DAGCAP) since December 2018, USAE successfully renews this accreditation as a small business geophysical provider through annual and biennial audits. Through DAGCAP, we utilize our Quality Management System, which is based on the requirements of ISO/IEC 17025 and perform surveys in accordance with DoD Quality Systems

Requirements for AGC to provide the highest quality data results, cost savings, and accountability to our clients.

As a member of the Environmental and Engineering Geophysical Society (EEGS), USAE's team of geophysicists participates in extensive training to stay current with industry standards and trends. In addition to AGC, USAE utilizes state-of-the-art geophysical equipment, to include the newest suite of EMI-based advanced geophysical sensors, and when paired with both proven and cutting-edge positioning systems, provides exceptional data collection and remediation results.

Experience and Quality

USAE performs terrestrial and underwater geophysical surveys. The application of AGC and existing Digital Geophysical Mapping (DGM) technology, paired with our extensive munitions response experience, allows our team to design innovative characterization and remediation solutions to support any project's scope of work – from site investigations to removal actions.

By maintaining a high level of technological capabilities and skills, USAE is committed to industry trend exploration in scientific and technology solutions to continually improve our value to our customers.

USAE has performed nearly a thousand geophysical surveys for government and private customers in all types of diverse locations and terrain worldwide, to include Puerto Rico, Guam, Tinian, South Korea, Philippines and throughout the United States, including Alaska and Hawaii.

NAVFAC Pacific rated USAE *Exceptional* and *Very Good* for our use of AGC to reduce the minimum separation distance (MSD) required during construction of proposed MILCON in Guam.

Upon the successful completion of a munitions assessment and removal at a former Naval Air Station's skeet range and quarry at Brunswick, ME, NAVFAC rated USAE *Exceptional* for regulatory compliance. This investigation included DGM and statistical evaluations to assess potential munitions concerns. *"The fieldwork and quality controls for this project were of excellent quality. The USAE Team provided excellent technical consultation support intended to explain the results of the fieldwork conducted as part of this contract."*

For a U.S. Army Corps of Engineers (USACE) Remedial Action at the >209-acre former Motlow Range Complex, a challenging, heavily wooded site, USAE performed extensive DGM and AGC. The surveys resulted in a significant reduction (>82%) in the number of Targets of Interest requiring intrusive investigation. USACE rated USAE *Very Good* for Quality and Management.

Core Value: "Technology"

Dedicated to proper application of technologies, maintaining a high level of skill and capabilities, and exploring world-wide scientific solutions to continually improve our value to our customers.



Performing dynamic survey using the Geometrics, Inc., Metal Mapper 2x2 AGC Sensor, Puerto Rico



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Geophysical Services (cont.)

Efficiency of a One-Pass AGC Survey

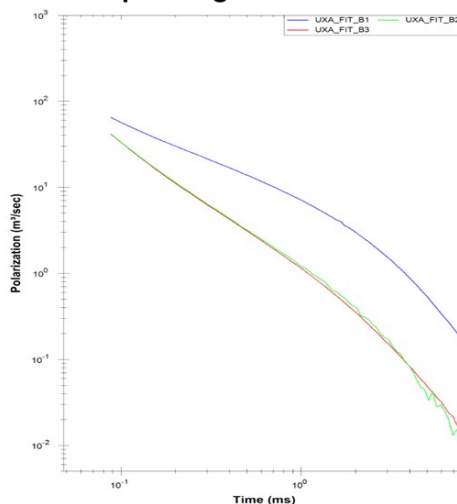
Reduce Cost by Detection and Classification of UXO in One Step
(AGC Can Result in >80% Reduction in Intrusive Investigations)

When time is critical and data collection and processing need to be expediting, the use of a one-pass AGC Survey can reduce the time and costs associated with performing dynamic AGC followed by cued DGM targets. USAE utilizes White River Technologies' One-Pass APEX system which fast-tracks the process, makes reacquisition of each anomaly unnecessary, and produces full AGC results with reduced time and effort.

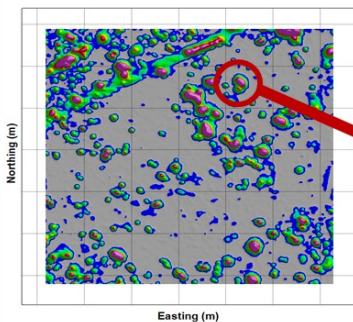
Step 1: AGC Dynamic Survey



Step 3: Target Classification



Step 2: Analyze Data



Step 4: Intrusive Investigation



USAE employs White River Technologies' DAGCAP accredited APEX One-Pass AGC sensor, Guam



Geonics EM61-MK2A deployed in stretcher mode during DGM survey, Tinian



USAE's custom designed EM61 towed array is customizable for 1 to 3 coil array.
Left – Two EM Coil configuration. Right – Three EM Coil configuration