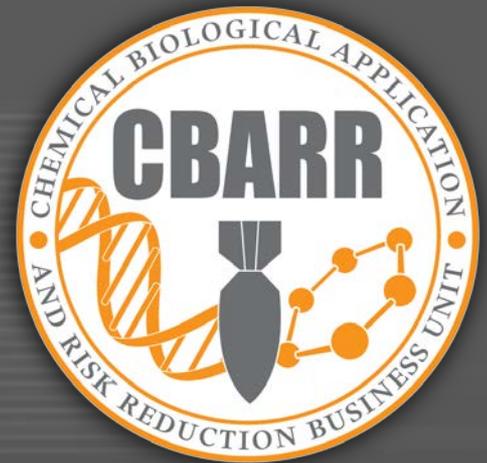




Is it a Mobile,
Temporary, or just a
Field Laboratory?



TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

2016 DoD Environmental Monitoring & Data Quality Workshop
John Schwarz, Analytical Chemistry Manager; Environmental Monitoring Laboratory (EML)
April 14, 2016

1. Introduction.
2. Laboratory Concept and Requirements.
3. Project Examples.
4. Accreditation Example.
5. Questions.



U.S. Army



U.S. Army Materiel Command (AMC)



U.S. Army Research, Development and Engineering Command (RDECOM)



U.S. Army Edgewood Chemical Biological Center (ECBC)



Chemical Biological Applications and Risk Reduction (CBARR)

Environmental Monitoring Laboratory (EML)

- **Configured to meet the needs of the project.**
- **Deploys for varying durations.**
- **Operates using same procedures and equipment as the fixed laboratory.**
- **Primarily utilized for analysis of industrial hygiene samples (sorbent tubes) for CWA.**
- **Also used for agent destruction verification.**
- **Recently expanded accreditation scope for soil and water analysis.**



- **Laboratory platform with power and HVAC.**
- **Instrumentation necessary for analysis.**
- **Fume Hood/ Glovebox for sample handling and preparation.**
- **Cold storage for reference material and samples.**
- **Flammable storage, compressed gas storage, and safety measures (eyewash/shower).**
- **Expendable and non-expendable supplies.**
- **Plans, procedures, and methods.**
- **Analysts and support staff*.**



















- Based on the need and circumstances of the project (TATs, shipping requirements, and minimum analytes of interest).
- Analysis performed on-site, data scanned for review, and reports generated from fixed laboratory.
- Not a fit for every project, but demonstrated a willingness to evolve to meet customer challenges and save costs.

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