



**US Army Corps
of Engineers®**

Engineer Research and
Development Center

Environmental Laboratory

Description

The **Environmental Laboratory (EL)** provides relevant, value-added technology supporting the environmental mission of the Corps of Engineers, the Army, the Department of Defense, and the Nation. Headquartered in Vicksburg, MS, the EL's interdisciplinary staff of over 200 engineers, scientists, technicians, and support personnel plans and executes all phases of the technology development process, from basic research to field implementation. The EL staff serves as problem solvers through research, development, experimentation, special studies, and technical support to its national and international business development partners. Partnering with Federal and State agencies, academia, and the private sector, the EL uses its distinctive technical capabilities to resolve complex, multi-disciplinary environmental sustainability problems. The EL website can be accessed at: <http://el.erdc.usace.army.mil/>



Capabilities

EL conducts research in the following areas:

- Environmental chemistry, environmental cleanup and remediation, environmental risk assessment, environmental sensing and monitoring, unexploded ordnance detection, dredging and dredged material management.
- Wetlands technology, invasive and endangered species, environmental stewardship/recreation resources.
- Environmental modeling, ecosystem restoration, multi-criteria decision analysis, water quality.

EL has a variety of specialized R&D facilities to support its mission, including:

- Facilities to conduct fate and effects testing, including an environmental toxicology laboratory; greenhouses; a rainfall simulator; soil lysimeters; environmental chambers to conduct static and continuous flow bioassays, toxicity, fate, transport, and risk assessment studies.
- Aquatic and wetlands facilities, including laboratories and greenhouses, flumes, environmental chambers, and a molecular biology laboratory.
- A geospatial data analysis facility to conduct GIS/remote sensing/GPS technology applications; data fusion, landscape modeling, and data analysis; and unique spatial applications.
- Environmental and molecular chemistry facilities, specialized analytical chemistry support, and quality assurance program development.
- A hazardous waste research center to conduct military and civilian cleanup support. This facility is RCRA permitted and recognized by EPA as a premier facility. EL also has field stations in Lewisville, TX; Spring Valley, WI; Omaha, NE; North Bonneville, WA; and Calhoun Falls, SC.

Point of Contact

Dr. Beth Fleming, Acting Director, Environmental Laboratory
601-634-3943, Beth.Fleming@erdc.usace.army.mil.