

Economic Profile

U.S. Army Corps of Engineers
Waterways Experiment Station
Vicksburg, Mississippi

CONTINUED USE



Environmental,
Information Technology,
and Geotechnical
Laboratories

CLEANUP OVERSEEN BY U.S. Army Corps of Engineers

The U.S. Army Corps of Engineers Waterways Experiment Station in Vicksburg, Mississippi, was established in 1929 following the catastrophic 1927 Mississippi River flood. Created to support the Mississippi River and Tributaries Project, the Station transformed hydraulics research in the U.S. and grew into the primary research facility for the Corps. The Station has published over 3,000 research reports, advancing civil engineering and water transportation infrastructure. In 1978, the Corps founded the Engineer Research and Development Center at the facility. It supports civil and military missions for the Corps and other government agencies, as well as private clients.

Operations at the facility contaminated soil and groundwater with chemicals such as trichloroethylene and tetrachloroethylene. The Corps is leading a three-phase cleanup featuring a unique soil treatment technology. Groundwater treatment and monitoring are ongoing under a long-term plan. On-site facilities continue to support the local economy with 1,470 jobs and over \$100 million in annual income.



EMPLOYEES

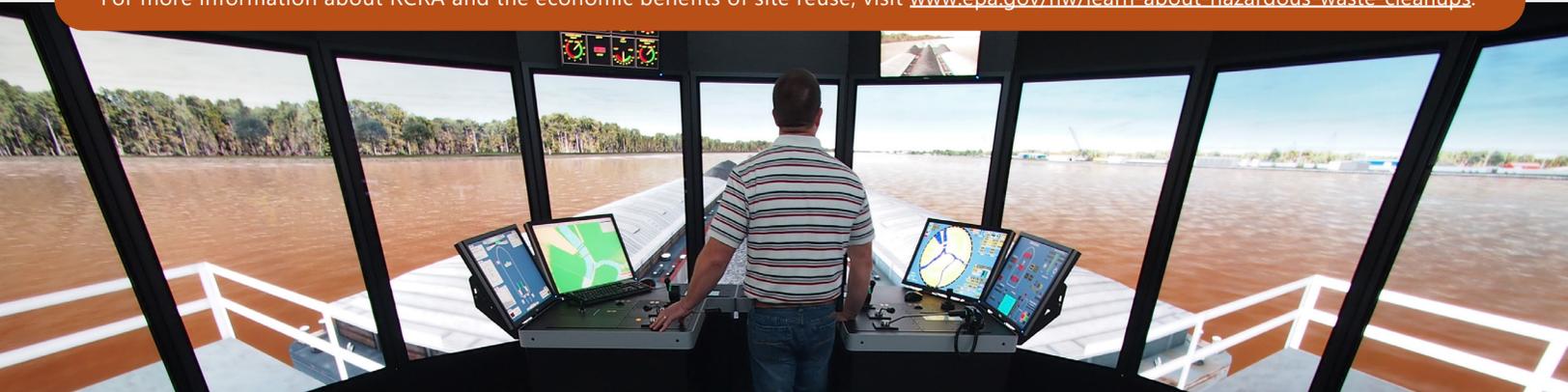
1,470



ANNUAL WAGES

\$104 million

For more information about RCRA and the economic benefits of site reuse, visit www.epa.gov/hw/learn-about-hazardous-waste-cleanups.





TODAY, THE FACILITY'S THREE MAJOR LABORATORIES PROVIDE INNOVATIVE RESEARCH IN DIFFERENT FIELDS. THEY INCLUDE THE ENVIRONMENTAL LABORATORY, THE INFORMATION TECHNOLOGY LABORATORY AND THE GEOTECHNICAL AND STRUCTURES LABORATORY.

The Corps led an interim groundwater remediation of the former Motor Pool Area at the Engineer Research and Development Center. Cleanup included the excavation and thermal treatment of contaminated soil on-site and then reuse of the treated soil as backfill. The Corps then injected enhanced bioremediation supplements to stimulate and promote naturally occurring microorganisms and processes that enhance the degradation of contaminants in soil and groundwater. Ongoing bioremediation injections and long-term monitoring will continue in order to ensure that groundwater contamination reaches acceptable maximum concentration levels.

Today, the facility's three major laboratories provide innovative research in different fields. They include the Environmental Laboratory, the Information Technology Laboratory and the Geotechnical and Structures Laboratory.

The Environmental Laboratory focuses on enhancing military operations while minimizing environmental impact. It protects soldiers from environmental threats, seeks to minimize environmental impacts and develops sustainable infrastructure solutions. With a diverse team and state-of-the-art research facilities, it tackles challenges in chemistry, ecology, remote sensing and more. The Information Technology Laboratory specializes in advanced information technology for defense and national security. The Information Technology Laboratory excels in areas such as high-performance computing, cybersecurity and artificial intelligence. The laboratory's team delivers solutions that keep the U.S. at the forefront of technological advancements. The Geotechnical and Structures Laboratory addresses complex engineering challenges in military and civil works. Its research spans areas such as force protection, infrastructure and flood resilience. With a team of experts, the Geotechnical and Structures Laboratory develops innovative solutions that enhance national defense, security and infrastructure resilience.

While the facility has a history of contamination, the Corps has taken the responsibility of ensuring its operations are protective of human health and the environment while continuing to operate critical research facilities that support 1,470 jobs and over \$100 million in annual wages.



Since 1929, the Waterways Experiment Station has been used for engineering and water infrastructure research, such as at this hydraulics laboratory.



The Engineer Research and Development Center headquarters in Vicksburg, Mississippi, includes three main laboratories that provide high paying jobs in the region and innovative research for several federal agencies.