

Environmental Management of Remediation Sites

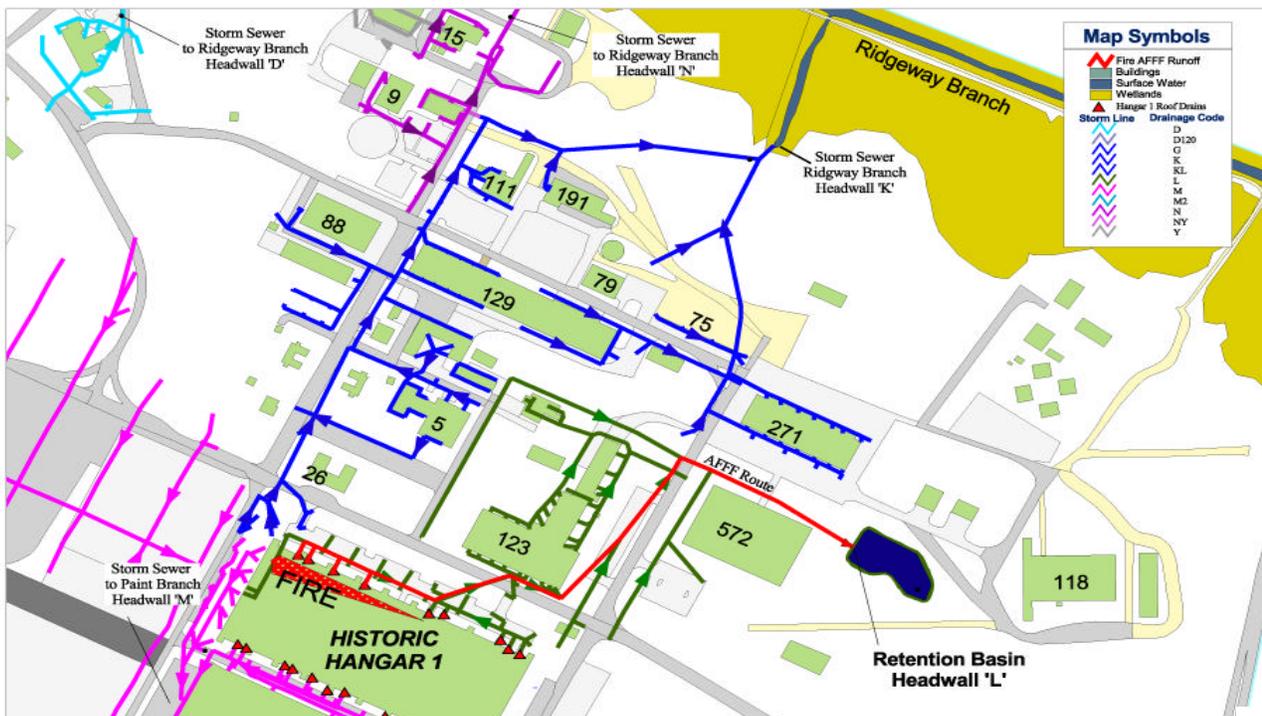
Advantages and Features

Members of NAVAIR Lakehurst's Environmental Team are problem solvers who can identify and adapt technology to resolve any environmental problem. From engineering design of treatment systems to computer-aided ground water modeling, there is almost no task this team cannot handle. Other environmental teams (both Government and private sector) can handle a portion of the myriad of tasks associated with remediation and data interpretation. NAVAIR Lakehurst's engineering staff has the resources to tackle and resolve the entire scenario.

Technology Description

Five years ago, NAVAIR Lakehurst was chosen by the Chief of Naval Operations to demonstrate geographic information system (GIS) applications for environmental cleanup. Known as the Environmental Engineering Information System (ENVEIS), NAVAIR Lakehurst's "smart" map includes environmental, utility and facility planning data in one system. It has also proved itself to be highly useful for base-wide planning and facility management.

ENVEIS successes can best be demonstrated by its products. In 1997, aqueous fire fighting foam (AFFF), used to put out a roof fire on one of the hangars, posed a serious threat to wildlife in surrounding streams. It was of utmost concern to the Environmental Branch to determine where the AFFF was heading and intercept it prior to its introduction into the surrounding streams in the area. As shown in the picture below, the Environmental



Team was able to use ENVEIS determine the route of any liquid placed in the hangar roof drains, assess the impact on wildlife, and ensure that appropriate action would be taken. Other ENVEIS successes include:

- Modeling field data to gain regulatory approval for natural groundwater restoration, avoiding a planned \$10 million extraction system
- Ordnance risk assessment
- “Live” demonstrations at public meetings, providing visible proof of in-house expertise and environmental commitment
- Community service, including school seminars and internships
- Integration of utilities management with construction

The Lakehurst Environmental Team has developed over the years to become a leader in its field. In 1992, it was named a DoD Environmental Showcase Installation; in 1995 it won a New Jersey Society of Professional Engineers Award for professional excellence; and in 1998 it received the DoD Environmental Cleanup Award. For more information about ENVEIS, other NAVAIR Lakehurst remediation projects, environmental awards received by NAVAIR Lakehurst, and community outreach programs, visit the NAVAIR Lakehurst Environmental web site at <http://www.lakehurst.navy.mil/envir>.

For more information contact

Business Development Office
Phone: 732-323-1111; E-mail: LKE-busops@navair.navy.mil

Potential Applications

One of the keys to NAVAIR Lakehurst’s environmental success has been its ability to grow and learn and then return what has been learned through education and outreach. Teaching and mentoring with local schools and universities are a large and rewarding part of the team's mission.

NAVAIR Lakehurst has also partnered with other Department of Defense sites in developing ground water modeling systems and environmental clean-up decision documents and plans. Members of the Environmental Team’s professional engineering staff can be made available to help resolve environmental problems faced by other Government activities or private industry.

Licensing and Partnering Opportunities

Several mechanisms exist for partnering with NAVAIR Lakehurst. These include cooperative research and development agreements (CRADAs), commercial service agreements (CSAs), and licensing of government-owned technologies. Under a CRADA, Lakehurst engineers and scientists work cooperatively with their peers in industry or academia on mutually beneficial research and development. The Navy has been given statutory authorization, via CSAs, to use Navy facilities to perform specific types of work for private parties. NAVAIR Lakehurst frequently produces patented, innovative discoveries of commercial value that are available for licensing to the private sector. Information about partnering with NAVAIR Lakehurst is available from the Business Development Office.

The Naval Air Warfare Center Aircraft Division Lakehurst, known as NAVAIR Lakehurst, is part of the Naval Aviation Systems Team. NAVAIR Lakehurst researches, develops, tests, and procures aircraft launch and recovery systems and support equipment for Navy and Marine aviation.

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Naval Air Warfare Center, Aircraft Division, Lakehurst, New Jersey 08733

