

NAS NORTH ISLAND - NAVY REGION SOUTHWEST NAVY ENVIRONMENTAL LEADERSHIP PROGRAM

INFORMATION TECHNOLOGY

GEOGRAPHICAL INFORMATION SYSTEM (GIS)

LEAD ACTIVITY

Southwest Division Naval Facilities Engineering Command (SWDIV)

STATUS

Active

MISSION

Establish geographical information system (GIS)

REQUIREMENT

In order to satisfy facility-wide environmental data information and natural resource management needs, a GIS is needed.

DESCRIPTION

The Southwest Division Naval Facilities Engineering Command (SWDIV) Installation Restoration team is now pursuing development of a GIS system with assistance from the Space and Naval Warfare (SPAWAR) Systems Center. This system will be an Intranet web-accessible GIS system, designed so users can access the information through a web browser. This feature will be particularly useful during Restoration Advisory Board (RAB) meetings. The system could potentially store information about NAS North Island relating to land use, geology, groundwater, and contamination in both media. This information could be combined to determine whether contamination affects land use at certain geographical areas at NAS North Island. SWDIV and their contractor Bechtel National Inc. are currently developing a seed file for the GIS so that all of the environmental contractors can have access to current and accurate environmental data. The Navy Public Works Center (PWC) San Diego Environmental Department, through a coordinated effort with SWDIV and SPAWAR Systems Center, currently use a GIS and associated Environmental Resource Management Applications (ERMA) software for evaluation and documentation of their site assessment and remediation projects.

BENEFITS

- Environmental data concerning a specific site can be exchanged among Navy personnel and the community
- Computer hardware and software are used to layer different types of information from multiple maps onto a single image enabling users to evaluate geographic relationships among different types of information

ACCOMPLISHMENTS/CURRENT STATUS

Date	Activity
JUL 1995	CAD-2 Intergraph hardware and software delivered
AUG 1995	Intergraph implementation report issued to NAS North Island
JAN 1997	Systems analysis done by SPAWAR Systems Center on the GIS Intranet web system
JUL 1997	Continue data search for information to upload into the GIS system
JAN 1998	SWDIV loaded initial data; SWDIV staff trained on system
JAN 1999	GIS Intranet web system built and databases populated
JUL 1999	SWDIV modeled an Installation Restoration site and determined future for a user-friendly GIS

FUTURE PLAN OF ACTION & MILESTONES

Date	Activity
Ongoing	Continue using GIS

COLLABORATION/TECHNOLOGY TRANSFER

The installation of the GIS at NAS North Island is a collaborative effort among NAS North Island, SWDIV, and SPAWAR Systems Center, the developer of the GIS.

BIBLIOGRAPHY

None available

RELATED GOVERNMENT INTERNET SITES

[Tri-Service CADD/GIS Center](#)

RELATED NAVY GUIDEBOOK REQUIREMENTS

- 00999 General Program Support

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