



Regional Sediment Management Program

NAP: Philadelphia District

Data Management Initiative for the NAP Major Navigation Projects



Description

The primary goal of this RSM effort is to further develop a data management tool via the Sediment Analysis and GeoApp (SAGA) in order to manage sediment data for the major navigation projects within the Philadelphia District. Such a management tool would provide readily available sediment data (physical, chemical and biological) for dredged material from Philadelphia District major navigation projects.

Issue/Challenge To Address

This RSM effort will help integrate individual projects and actions into a systems approach. These efforts will identify and supplement gaps in data/knowledge and systematically address needs that have been identified as common between individual projects that can potentially be better solved with a regional approach.

Successes Lessons Learned

This management tool would provide readily available sediment data (physical, chemical and biological) for dredged material from the Philadelphia District major navigation projects. Specifically, this is a phased 2-year approach focusing on two major navigation projects (Delaware River – Philadelphia to the Sea and Delaware River – Philadelphia to Trenton).

Expected Products

- Phase 1: Delaware River – Philadelphia to the Sea: Collect and integrate available sediment data for this navigation project into the data management tool
- Phase 2: Delaware River – Philadelphia to Trenton: Collect and integrate available sediment data for this navigation project into the data management tool
- Overall Product: Regional GIS-based data management and decision support tool using SAGA

Stakeholders/Users

Delaware Estuary Regional Sediment Management Workgroup

Projected Benefits

The continued development of the GIS-based data management and decision support tool will benefit multiple projects within the Philadelphia District boundaries through a regional approach to sediment management. The decision support tool could potentially be shared with agencies and stakeholders to better communicate project operations and the USACE/NAP navigation and flood risk management missions.

Incorporation of RSM into standard business practices within NAP via development of RSM strategies/implementation practices will improve life cycle costs and project benefits.

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