



# 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.

#### Points of Contact

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