

FY15 RSM-EWN IPR

Philadelphia District (NAP), RSM Data Management Initiative, Scott Sanderson

BLUF: The primary goal is to develop a data management tool via the web-based Sediment Analysis and Geo Application (SAGA) in order to manage sediment data for the major navigation projects with the Philadelphia District.

Problem Statement/Issue

- Multiple navigation projects are ongoing at NAP; however, a central data management tool does not exist to catalog sediment characteristics in each project area.

Approach to Address Problem (non-technical)

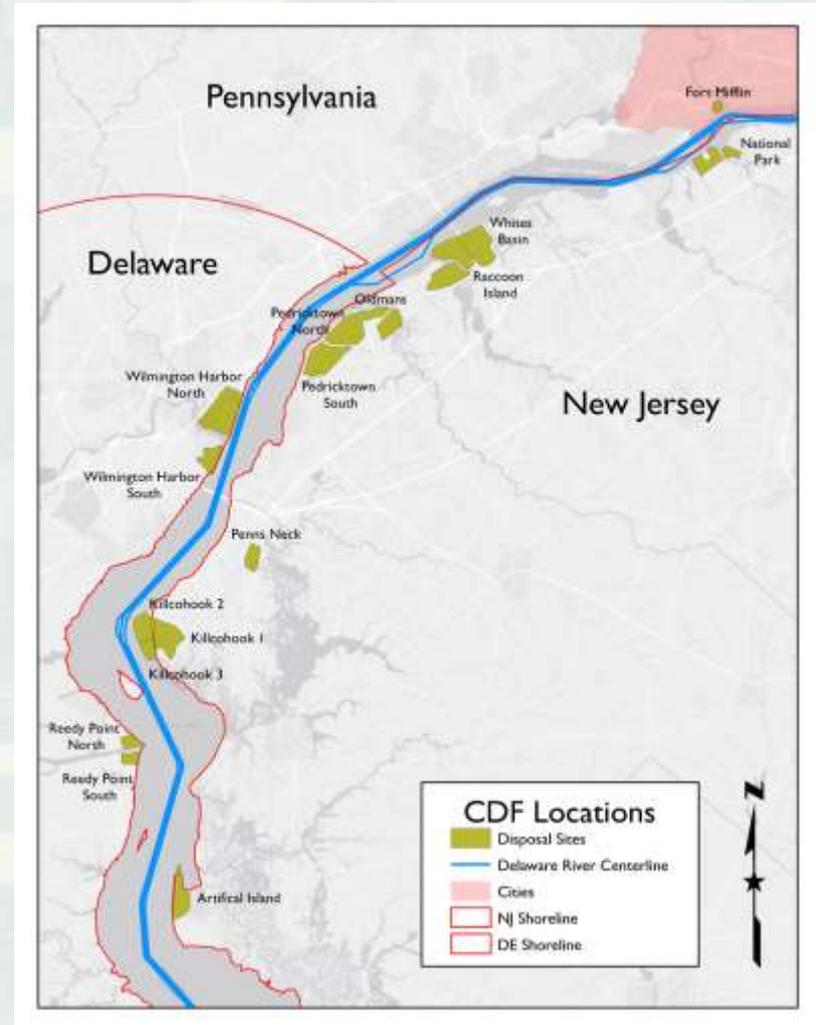
- Develop a data management tool via SAGA in order to manage data for the major navigation projects within NAP.



Approach to Address Problem (Tools, Models, Technologies)

- Gather Existing Sediment Data (CDF Inspection Reports, O&M Reports)
- Geographic Information Systems (GIS)
- SAGA

Federal maintenance dredging of the 40 foot channel has historically generated approximately 3,000,000 cubic yards of dredged material annually!



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Title: RSM Data Management Initiative

USACE RSM PDT

- Scott Sanderson – Project Manager
- Beth Adams – Water Resources Planner
- Colleen Rourke – GIS Coordinator

Stakeholders/Partners

- Delaware Estuary Regional Sediment Management Implementation Workgroup
 - USEPA, NOAA, USGS & NRCS
 - NJDOT & NJDEP
 - DNREC,
 - Philadelphia Water Department
 - Delaware River Basin Commission
 - Partnership for the Delaware Estuary
 - Philadelphia Regional Port Authority

What key leveraging opportunity(s) did stakeholders/partners provide?

- August 2013 – Developed Delaware Estuary RSM Plan
- Extend the useful life of existing CDFs
- Coordinate projects/management activities with complementary and additive benefits to environment and economy
- Clarify and streamline regulatory review process for sediment management and dredged material beneficial use activities
- Develop shared regional data management systems, models, and other tools.
- Local outreach/collaboration



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UPs – 3 Positives from effort

- Promotes integration of individual projects and actions into a systems approach by identifying overlapping data between individual projects
- A regional GIS-based data management and decision support tool will greatly enhance project management and communication on the major navigation projects and projects related to the navigation projects
- Data management tool could be shared with other agencies and stakeholders to better communicate project operations and the USACE/NAP navigation, FRM and ER missions



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DOWNs – 3 Negatives from effort

- Difficult to justify the regional approach at the project level during feasibility
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Value to the Nation

- Data management tool could be shared with other agencies and stakeholders to better communicate project operations and the USACE navigation, FRM and ER missions
- Incorporation of RSM into standard business practices via development of RSM strategies/implementation practices will improve life cycle costs and project benefits
- Promotes combining and coordinating Federal projects from multiple business lines (as well as multiple agencies) to achieve greater environmental and economic benefits

