

Engineering With Nature Case Examples of Practice

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Current Projects

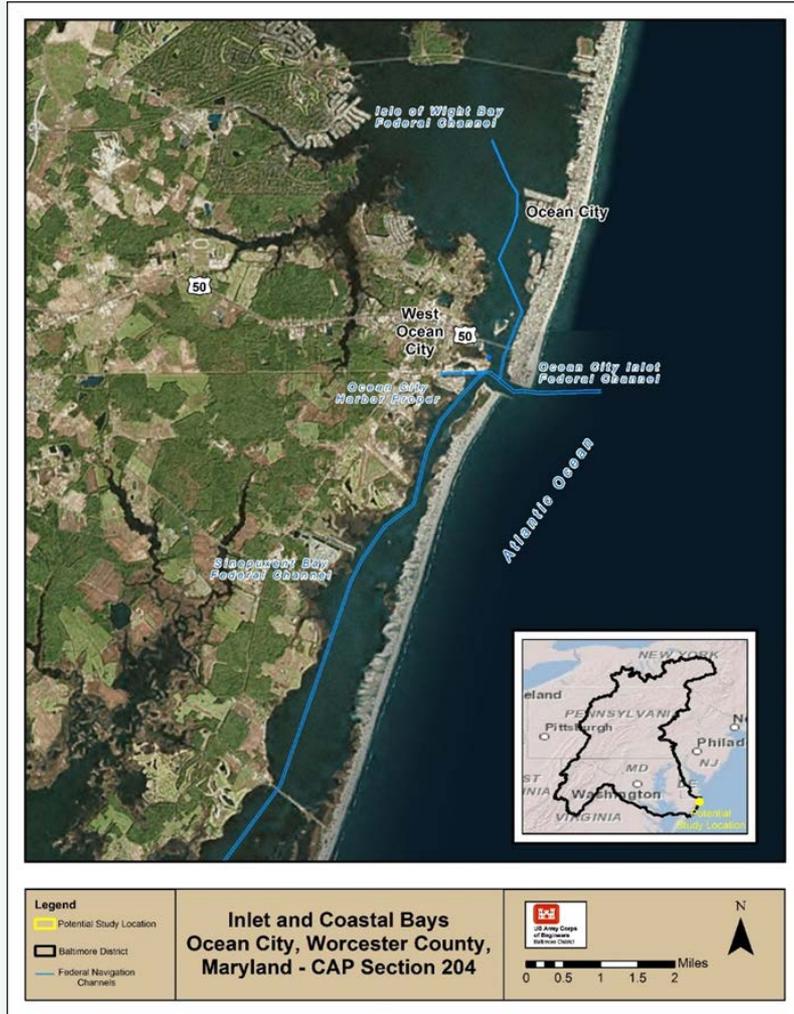
Ocean City Sinepuxent and Isle of Wight Bay Maintenance Dredging

- FY2014-Present
- Dredged approx. 400,000 cubic yards
 - Unconfined placement
- Restored 4 historic islands
 - Two vegetated, two bare
- Migratory Bird Habitat
- Shallow water habitat creation

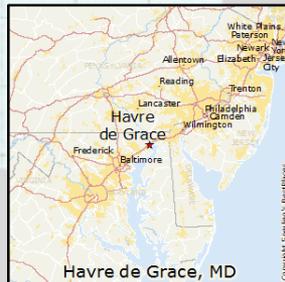
Fishing Battery/ Susquehanna River Maintenance Dredging

- FY2013
- Dredged approx. 200,000 cubic yards
 - Unconfined placement
- Restored 11 acre island
- Wetland, transitional marsh, and high marsh created
- Planted with 11 different species
- Shallow water habitat creation

Ocean City Sinepuxent and Isle of Wight Bay Maintenance Dredging



Fishing Battery/ Susquehanna River Maintenance Dredging



Fishing Battery/ Susquehanna River Maintenance Dredging



Spring 2013

Summer 2014



Most Significant Contributions

- Cooperation between federal, state, local agencies from beginning of design
- Unconfined placement of dredged material in open water for island restoration
- Completed Navigation and environment mission
- Creation of new shallow water habitat near islands
- Migratory bird nesting habitat created



Challenges

- Unconfined placement-MD State law
- Public Use
- Environmental window for anadromous fish (Battery Island)
- Post creation monitoring
- Turbidity at cutterhead (SAV, benthics)

Future Opportunities

Wicomico River: Ellis Bay Wetland Restoration and Thin Layer Placement



Smith Island: Swan Island Wetland Restoration

