

# Beneficial Use of Dredged Sediments in Connecticut

Connecticut Department of  
Environmental Protection



# Ongoing Efforts

- Beach Nourishment
- Innovative Technology
- Beneficial Use General Permit
- Removing Impediments to Beneficial Use

# Beach Nourishment

- 650,000 cubic yards of sand to be dredged from Housatonic River FNP
- DEP partnering with ACOE to place this sand, if suitable, on severely eroded Hammonasset Beach state park in Madison, CT
- ACOE is also working with DEP to place approximately 40,000 cubic yards of sand dredged from the Clinton Harbor FNP on Hammonasset Beach

# Beach Nourishment

- Use of the Housatonic sand depends on:
  - Congressional funding for the dredging
  - ACOE finding positive cost benefit to dredge
  - State funding for Hammonasset Beach project

# Innovative Treatment Technology

- Section 345 of WRDA 2000 authorized a innovative treatment demonstration program using LIS dredged sediment
  - \$2 million Fed funds, \$750,000 state match
  - Partnering in a NJ pilot project enabled a savings of ~2 yrs & several million dollars by using NJ sediments similar in texture and chemistry as a surrogate for Bridgeport sediments

# Innovative Treatment Technology

- Demonstration program, continued
  - Phase 1 uses 100 cy of NJ sediment shipped to Bridgeport treated by a sediment washing process to determine if a marketable product can be manufactured by soil & aggregate suppliers
  - Processors will document process & results to ACOE & CTDEP

# Innovative Treatment Technology

- Manufactured product will be tested to determine if it is suitable for restricted or unrestricted use
- Depending on Phase 1 results, Phase 2 could involve construction of a treatment facility & dredging of some quantity of Bridgeport Harbor sediment to be processed into a marketable product

# Upland Reuse of Sediments: Where we are going

## General Permits

- **Staging and Transfer**

- sets conditions for stockpiling soil or sediments in anticipation of beneficial use
- issued September 7, 2006

- **Beneficial Use**

- External advisory group collaborating in development
- Available for public comment in coming weeks

- **Treatment**

- To be developed

# General Permit for Beneficial Use

- **Proposing General Permit for Beneficial Use of Regulated Fill [includes Contaminated Soil and Sediments]**
  - Simplify ability to re-use soil and sediments for common uses that are specifically pre-determined
  - Enhance ability to reuse soil and sediments for specific uses
  - Matching contaminant levels with uses
  - Matching registration requirements and operating conditions with uses

# Removing Impediments to Beneficial Use of Dredged Sediment

- 3 proposed revisions of regulations and statutes to promote beneficial use
  - 1. Revision of “clean fill” to clarify between regulated fill and clean fill
  - 2. Revision of “contaminated dredge spoils” definition to be a type of regulated fill

# Removing Impediments to Beneficial Use of Dredged Sediment

3. A royalty provision in state statute requires a \$4/cy royalty payment to the state for the sale of dredged sediments
  - Legislation was introduced to exempt treated sediments from the royalty requirement but did not pass; it will be reintroduced this year