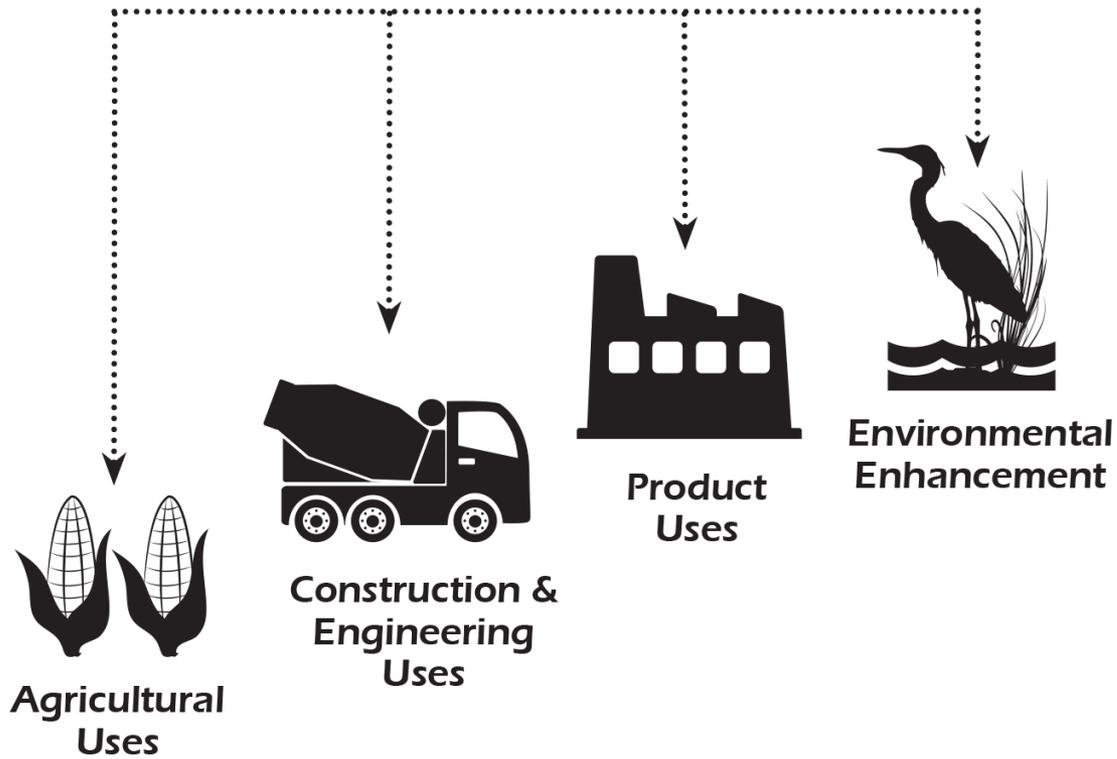


# Dredged Material Beneficial Use Projects

Outside Ohio

# Four Broad Categories of Uses



# Pennsylvania



## Bark Camp Run Demo

- ✓ Surface mine reclamation demonstration project
- ✓ New York Harbor dredged material
- ✓ Mixed with alkaline fly ash both before and after transport
- ✓ 550,000 cubic yards of material covering 15 acres
- ✓ Demonstration proved feasibility

# Pennsylvania





# Wisconsin

## Highway 41 Project

Authorized for use as:

- ✓ Confined geotechnical fill
- ✓ Clay capped and side-walled transportation facility embankments
- ✓ Utility trench backfill
- ✓ Unconfined geotechnical fill

Listed as a potential borrow source on the contractor resource list for the project





# Wisconsin



## Cat Islands

- ✓ Multi-partner habitat restoration project
- ✓ Reconstructing three islands in the lower bay
- ✓ 272 acres of habitat
- ✓ Includes 2.5-mile long wave barrier
- ✓ Three islands will be built with dredged material – fine sands





# Minnesota

## Erie Pier Placement and Reuse Facility

Water Management is a Key Component.





# New Jersey



## Jersey Gardens Mall

- Newark Bay, south of the Port Newark/Port Elizabeth; 185-acres
- Municipal waste landfill, 1960 - 1972
- 1992 - Site purchased
- 850,000 cubic yards used as landfill cap and structural fill
- Blended with stabilizing agent
- Covered with 2 feet of clean soil, asphalt and buildings
- 1999 - Grand Opening



# New Jersey

## Eco-Block Manufacturing Technology

NY/NJ dredged material  
Flyash  
Sand

Portland cement  
Glass  
Additives



- ✓ Meets ASTM 1157 Standards for cementitious materials
- ✓ Potential uses:
  - Blocks for rest area buildings
  - Blocks for security walls
  - Blocks/Pavers for landscaped gardens



# Maryland

## Poplar Island

- ✓ Habitat restoration project; just off the Chesapeake Bay coastline, about 34 miles south of Baltimore
- ✓ Baltimore Harbor and channels dredged material
- ✓ Approximately 68 million cubic yards of dredged material will be placed to develop 735 acres of wetlands, 840 acres of uplands and 140 acres of open water embayment
- ✓ Through 2015, 232 acres of tidal wetland created and 27.7 MCY of dredged material placed at the project

# Maryland





# New York

## Jamaica Bay Marsh Island

- ✓ Habitat restoration project; restoring the existing vegetated areas and the sheltered and exposed mudflats
- ✓ New York & New Jersey Harbor dredged material
- ✓ 2006 & 2007 - Elders Point East Marsh Island: restored 40 acres; hand planted more than 700,000 plants
- ✓ 2010 - Elders Point West Marsh Island; restored 40 additional acres; hand planted 200,000 plants



# New York





# California



## **Lew Galbraith Golf Course**

- ✓ Large CDF created on footprint of golf course
- ✓ Slurried dredged material from the port was delivered to the site over a 3-year period
- ✓ Decanted water was discharged to San Francisco Bay
- ✓ Following treatment and drying in the disposal facility, new golf course constructed