



# Hudson River Dredging Project - Phase I Overview and Lessons Learned

World Canal Conference

# Video



# What Went Well

## We learned enough in Phase 1 to improve Phase 2

- Exceeded sediment volume & PCB mass goals
- Few shut-downs with limited impact on production
- ~70% of dredged area closed in compliance with the Residuals Standard
- No measurable water quality or fish impacts to Lower River



# Phase 1 Challenges

- Higher than normal flows
- Extent of wood debris
- **DoC consistently underestimated**
- NAPL releases
- Limitations on scow unloading
- % of bedrock/clay bottom



# Post Phase 1 Dredging - Next Steps (preliminary schedule)

- **Habitat replacement (May-June 2010)**
- **Peer Review Report (September 2010)**
- **Phase 2 Design Requirements**
- **GE Opt In / Out (December 2010)**

# Questions



# Question #1

**What are the Engineering Performance Standards reviewed by the Peer Review Panel?**



# Engineering Performance Standards

- Resuspension, residuals and productivity standards are included in the basis of design
- Peer Review analysis includes the assessment of the ability to achieve the standards in Phase 2



# Question #2

- **What are the Quality of Life Standards?**

# Quality of Life Standards

- Noise
- Light
- Odor
- Navigation
  - Air

# Question #3

- What are the major issues identified during the first phase of the dredging?

# Answer #3

- Higher than normal flows
- Extent of wood debris
- **DoC consistently underestimated**
- NAPL releases
- Limitations on scow unloading
- % of bedrock/clay bottom



# Question #4

- **What are the major areas of improvement identified to be implemented in Phase 2 to increase efficiency?**

# Answer #4

- Depth of contamination
- Scow unloading

## **Overview and Status of the Hudson River PCB Dredging Project**

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The Hudson River PCB Dredging Project began in-river work in 2009. The long awaited dredging is the culmination of decades of negotiations with the General Electric Company, sampling and design for the removal of PCB contaminated sediment in 40 miles of the upper Hudson River. This presentation will provide a video presentation describing the background of the project, design requirements and next steps for the continuation of the dredging work.

**David H. King** is a civil engineering graduate of Rensselaer Polytechnic Institute in Troy, New York. He has over 10 years experience as a consulting engineer specializing in municipal engineering, solid waste and hazardous waste systems and hazardous waste remediation. He is a licensed Professional Engineer in New York, Vermont and Mississippi.

Mr. King spent 12 years with the New York State Department of Environmental Conservation in the fields of water quality planning, hazardous spill response, solid waste, hazardous waste transport and permitting and site remediation. He left the Department as Assistant Director of Solid and Hazardous Waste.

From 1993 to 2003 he was with Niagara Mohawk Power Corporation as the Director of Site Investigation and Remediation and in 1998 became the Executive Director for Environmental Affairs. He was responsible for all aspects of the Company's environmental programs including permitting, compliance, remediation and stewardship.

From 2001 to 2004 he established the State University of New York (SUNY) Center for Brownfield Studies and became its Executive Director.

In April 2004 Mr. King became the Director of the Hudson River Field Office for USEPA. In this capacity he is responsible for the oversight and coordination of the Hudson River Dredging Project activities including local community involvement, technical review and oversight and state and federal government relations.