Sediment Remediation Training Session NARPM, 2007

Steve Ells - EPA HQ

Jim Hahnenberg - EPA Reg. 5

Danny Reible - U. Texas-Austin

Paul Schroeder – US ACE ERDC

We've Come a Long Way

- Know a lot more about evaluating and understanding site conditions and sediment characteristics
- Better understanding of the effectiveness of dredging, capping and MNR
- Greater recognition of the limitations of dredging, capping, and MNR

Sediment Myths

- Dredging removes contaminant mass, but doesn’t reduce risk, it creates risk
- All caps will leak and erode
- MNR is a “wink and a walk”
- Must use a high-end, costly computer model in order to compare remedy effectiveness and select a remedy

Mega Questions

#1 – How well do we need to understand the nature and extent of contamination in order to pick an appropriate remedy and cleanup levels for *this* site?

#2 – How do we decide which areas of a site to dredge vs. isolation cap vs. thin layer cap vs. MNR?

#3 – How do we balance creation of short-term risk, level of long-term risk reduction, waterbody use restrictions and cost ?

Principle Uno

Develop a conceptual site model that considers key site uncertainties and use it within an adaptive management approach to control sources and to implement a cost-effective remedy that will achieve long-term protection while minimizing short-term impacts.