

Oregon DEQ's Perspectives on Portland Harbor

Oregon Source Control Conference

- *State Concurrence of ROD*
- *Considerations for Successful Implementation*

Kevin Parrett, PhD – Manager, NWR Cleanup and Leaking USTs
Sarah Greenfield, PE – Portland Harbor In-Water Project Coordinator

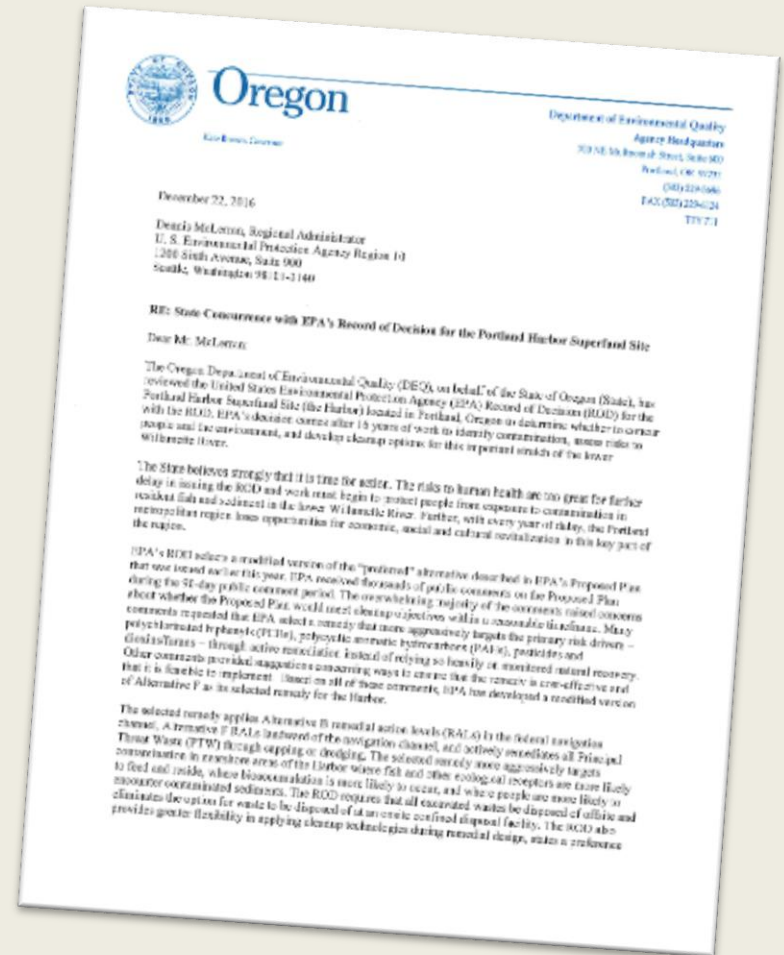
State Concurrence

“The State believes strongly that it is time for action

The risks...are too great for further delay

...with every year of delay, the Portland metropolitan region loses opportunities for economic, social and cultural revitalization in this key part of the region

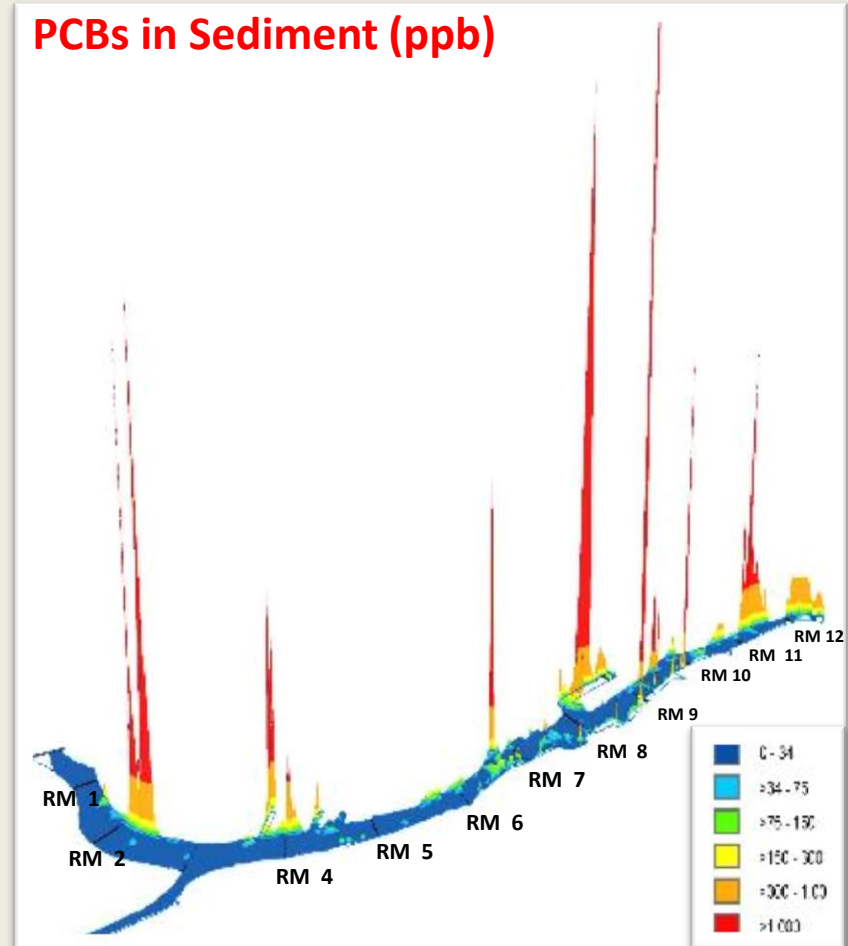
DEQ and the State readily acknowledge that implementation of the selected remedy presents financial, technical, and administrative challenges”



State Concurrence

“DEQ and EPA have memorialized key expectations...as described below

- *Controlling sources...will remain a priority for DEQ*
- *DEQ and EPA are committed to...toxics reduction within the Willamette River watershed*
- *EPA anticipates...dividing the Harbor into work areas for purposes of remedial design and construction*
- *DEQ may perform certain oversight functions, in coordination with EPA...”*



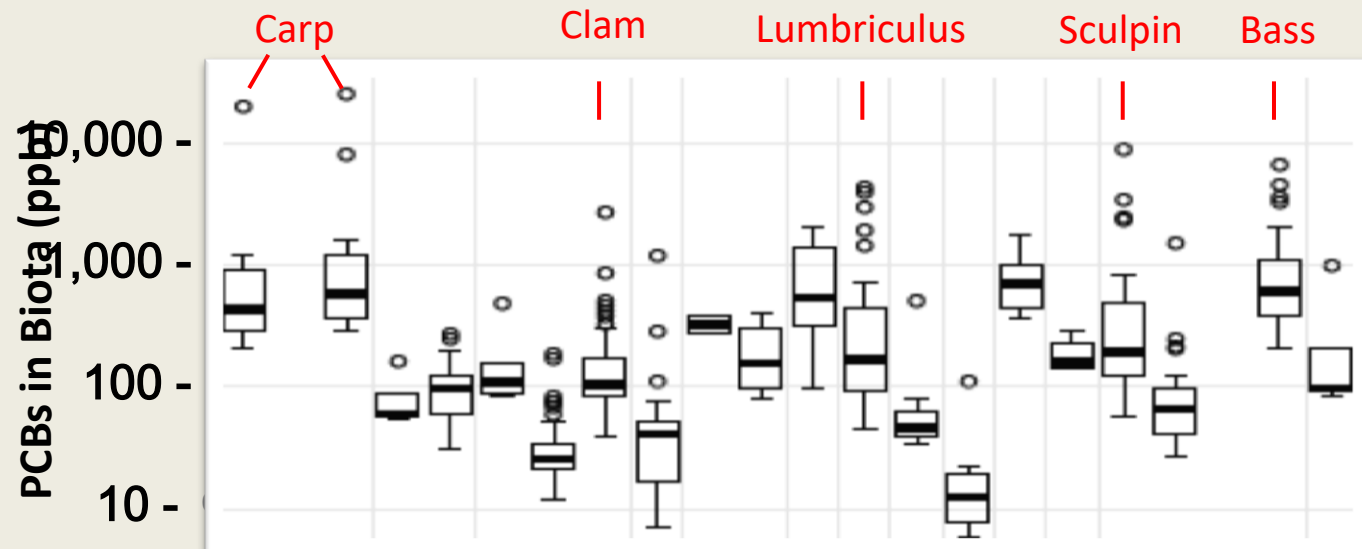
State Concurrence

“EPA should provide legal and administrative incentives to encourage PRPs to promptly enter into performance agreements

EPA must also support innovative engineering solutions and flexibility during remedial design and construction

A comprehensive long-term monitoring plan and data management system will be necessary to assess remedy effectiveness

EPA must implement a comprehensive (updated) fish advisory and community outreach program immediately following issuance of the ROD.”



State Concurrence

“It is the State’s expectation that EPA will recognize and uphold the State’s proprietary land management authority and responsibilities and further recognize the importance of protecting public trust values and public infrastructure improvements...during remedy implementation

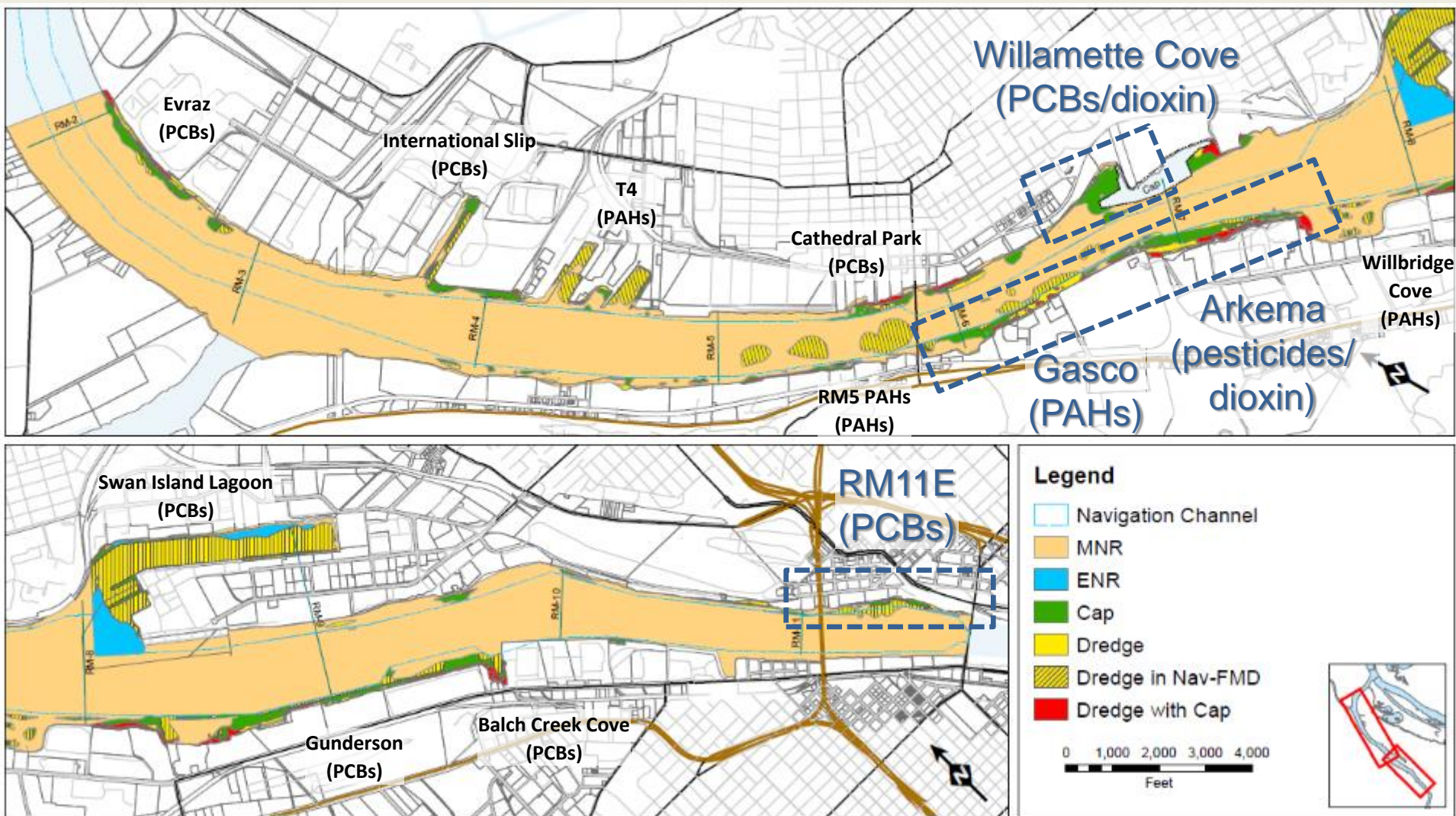
Implementing this complex remedy will require significant...agency resources and close coordination with Tribal governments, key stakeholders, and the community

The State, on behalf of the citizens of Oregon and as a performing party, intends to work closely with EPA and other partners to identify and implement time-critical elements of the ROD

With these understandings, the State of Oregon concurs with EPA’s selected remedy for the Harbor.”

**DEQ and Office of Governor Kate Brown
Dec 22, 2016**

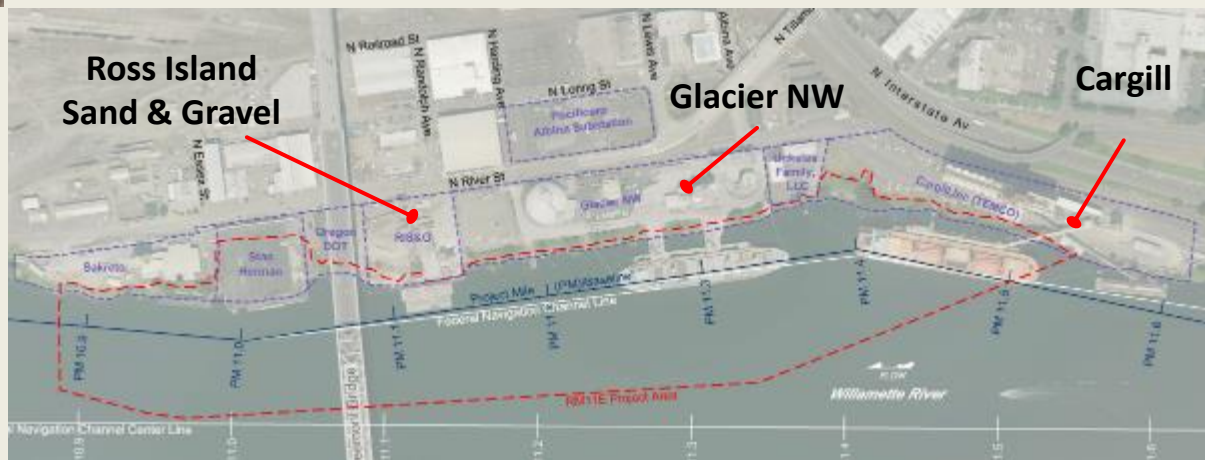
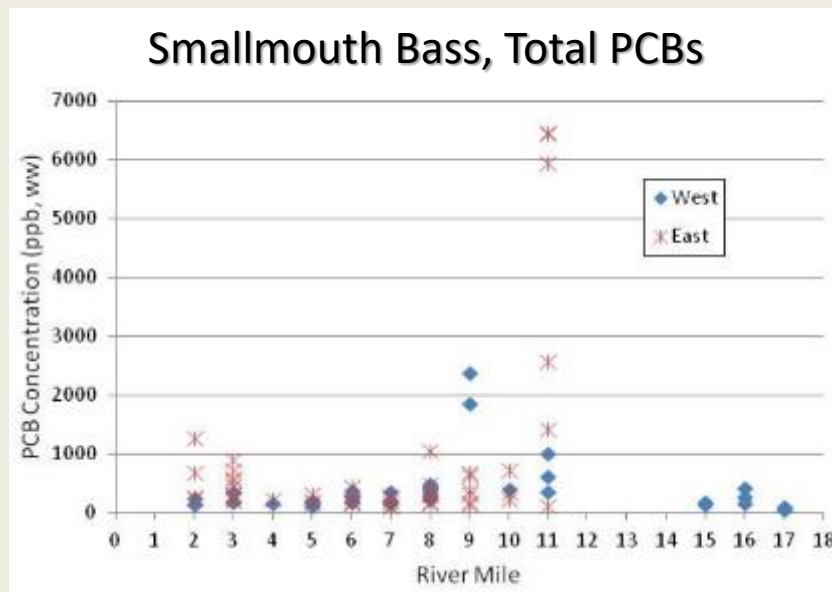
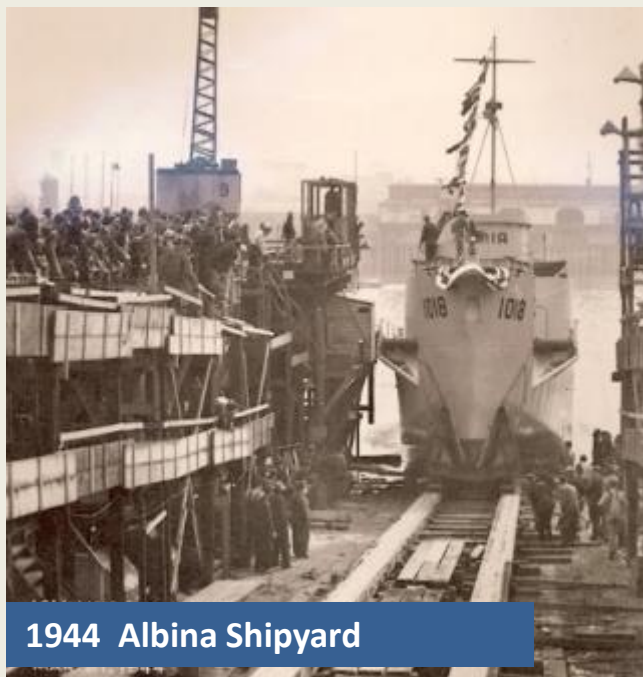
Prioritizing Cleanup



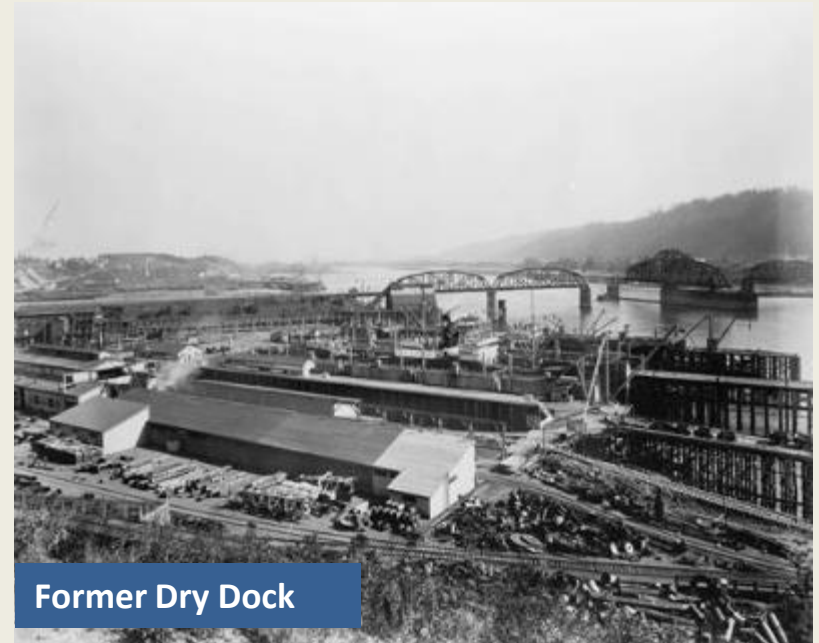
Gasco & Arkema Sites



Rivermile 11E



Willamette Cove



Fish Advisories as Institutional Controls

FISH ADVISORY

Atención Chú ý 注意 Внимани ໂປດອາບ

Fish from these waters may be harmful to eat, especially for children, pregnant or nursing women, and women of childbearing age.



The sign features a green section with a fish on a plate icon and illustrations of a salmon and a steelhead. Below this is a red section with a 'no fish on plate' icon and 'no fish' icons for bass, catfish, and carp. A map of the Willamette River area is also included, showing the area of concern and river mile markers. The Oregon Health Authority logo is at the bottom right.

SALMON **STEELHEAD**

BASS **CATFISH** **CARP**

More information call 1-877-290-6767
www.healthoregon.org/fishadv

Oregon Health Authority



Baseline & Long-term Monitoring

Downstream (RM 0 – 2, MC)

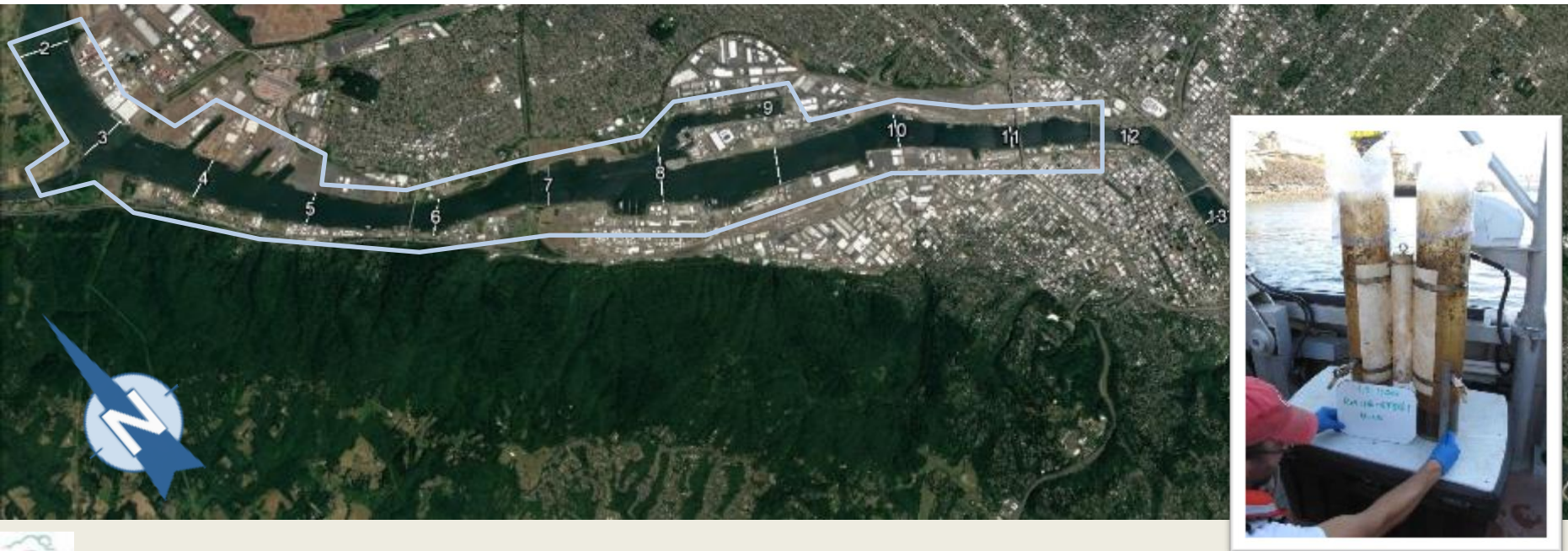
- Surface Water
- Sediment Traps

Study Area (RM 2 – 12)

- Surface Sediment
- Bass & Carp
- Surface Water
- Sediment Traps

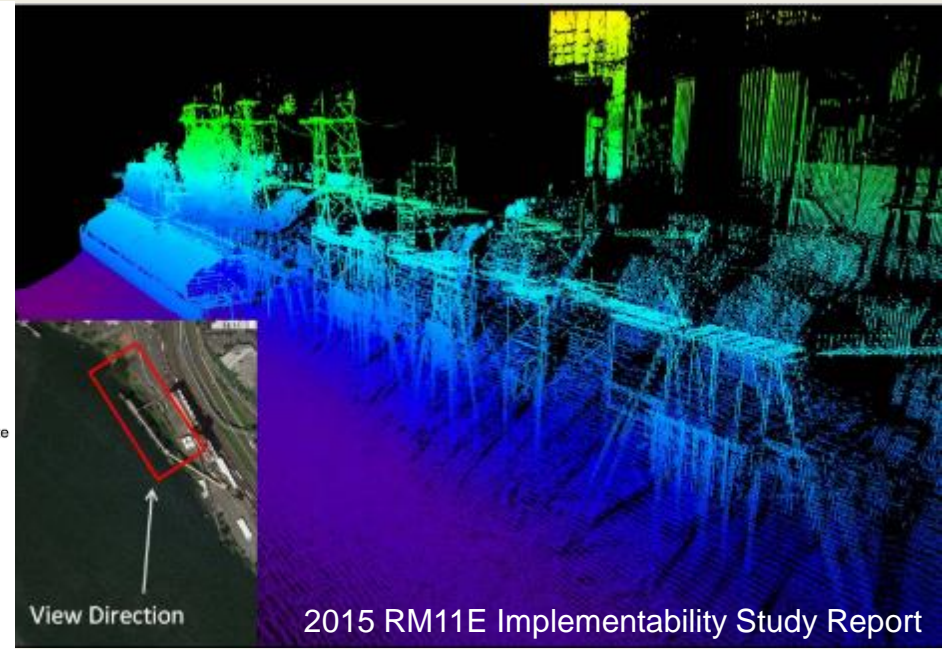
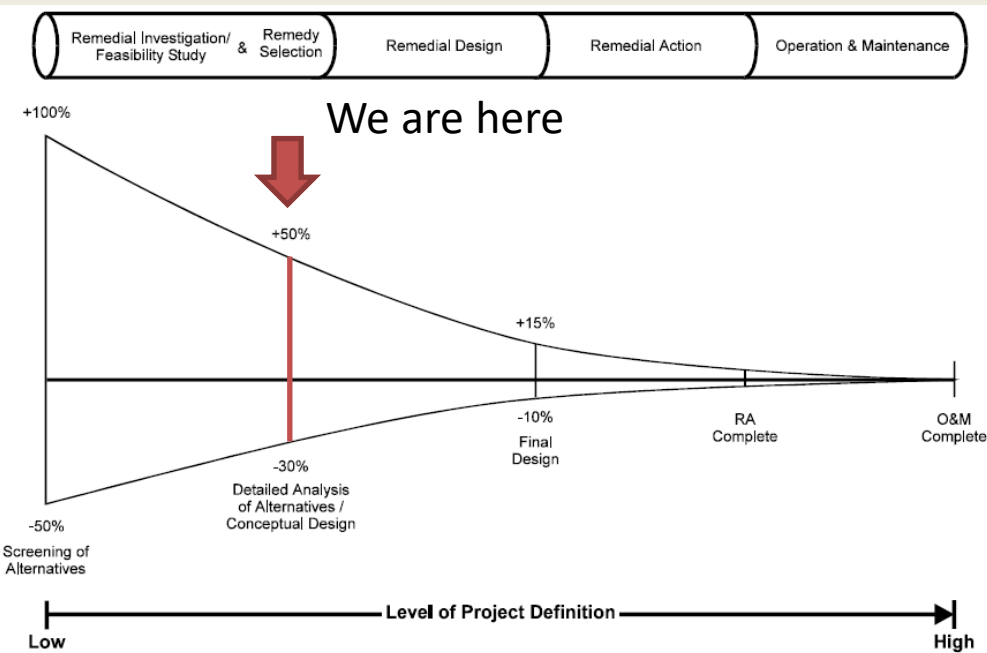
Upstream (RM 12 – 17)

- Surface Water
- Sediment Traps



Remedial Design Considerations

- Surface/subsurface delineation
- Technology selection
- Groundwater interaction
- Debris evaluation
- Bathymetry
- Underwater utilities
- Structural stability
- Geotechnical assessment
- Hydrodynamic considerations
- Current and future use
- Property ownership/access
- Flood rise
- Cultural resources
- ESA Consultation



~ The End ~



*Smallmouth Bass
BNRR Bridge (RM 7)*