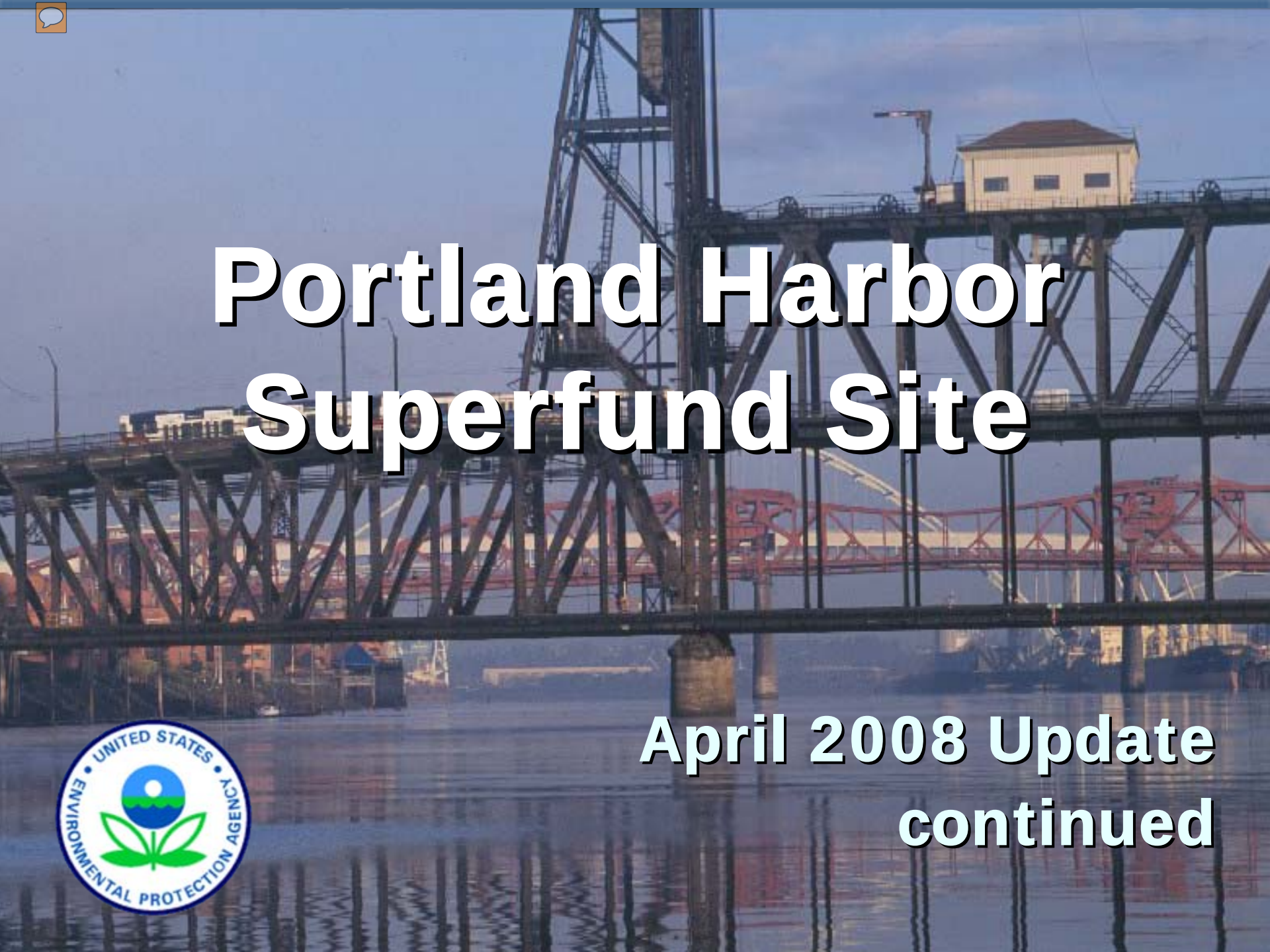


Portland Harbor Superfund Site

April 2008 Update continued

RI/FS Next steps

- LWG to start writing the RI report
- EPA additional guidance on eco TRVs
- Agree on risk assessment issues by June
- Data “lockdown” – June
- Food Web model update
- PRGs development – fall
- RI and baseline risk assessment report end of 2008

FS transition

- FS Scoping
- Develop refined RAOs and PRGs
- Develop AOPCs
- Refine PRGs – Remediation Goals
- Refine AOPCs to Sediment Management Areas
- Alternatives screening

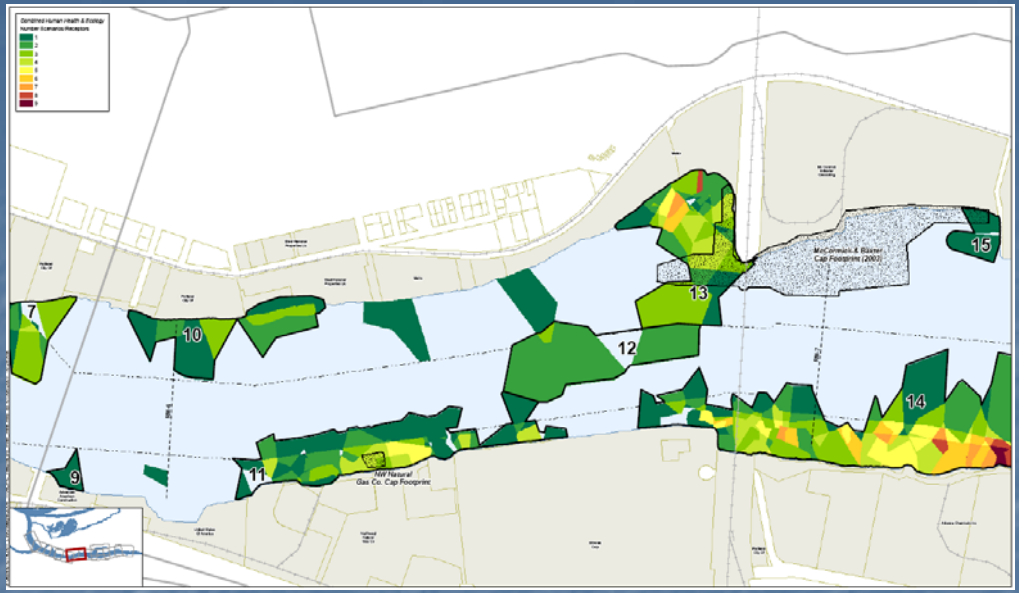
Preliminary Remediation Goals

- “Initial” preliminary remediation goals (iPRGs) were identified in the Round 2 Report
- EPA recently provided comments on developing PRGs and areas of potential concern (AOPCs)
- PRGs should be developed based on the results of the baseline human health and ecological risk assessments, food web models and ARARs
- A number of issues associated with PRG development be worked out - how PRGs will be refined into remedial action goals and performance standards

PRGs and Background

- PRGs for some chemicals and pathways may be below natural and/or anthropogenic background concentrations
- PRGs should be compared to background levels to determine whether it is feasible to achieve risk-based sediment and water cleanup levels in Portland Harbor

AOPCs



- "Initial" areas of potential concern (iAOPCs) were presented in the Round 2 Report to identify data gaps
- AOPCs will be developed based on the results of the baseline human health and ecological risk assessment, PRGs, the application of various modeling results, the spatial distribution of contamination and the application of geo-statistical tools
- Further refined into sediment management areas (SMAs) for evaluation in the Portland Harbor FS

FS Steps

- Screening and optimization steps to initially refine Areas of Potential Concern (AOPC) into Sediment Management Areas (SMA)
- Develop a suite of remedy alternatives that would be carried through the detailed evaluation of alternatives against the National Contingency Plan (NCP) remedy selection criteria.

Sediment Management Areas

- SMAs – combine areas for evaluation
  - Consider physical & chemical parameters, geographic proximity, release mechanism and site specific factors such as current and potential future site use
  - Goal is to identify areas of contamination that may logically be combined for the purpose of developing, screening and evaluating remedial action alternatives across the site

Kicking off the FS

- Ongoing scoping level discussions with LWG
- EPA recently provided “guidance” on FS
- Complexity - size of the Portland Harbor Site, the number of specific sources, the dynamic nature of the river and watershed considerations, the Portland Harbor will be complex
- FS Some streamlining of the FS Report will be necessary to keep it manageable

FS

- Combination remedies - dredging with disposal and placement options, capping and monitored natural recovery will be the primary risk reduction strategy

- Sediment remediation and treatment options and integration into long-term regional sediment management actions may prove cost effective, especially if treatment costs can be off-set by beneficial re-use of treated sediment

Key technical/logistical issues

- Source Control – timing, effectiveness
- Aquatic Habitat Function
- Disposal options - Upland, confined in-water, near shore CDFs, rehandling facilities, beneficial reuse, and pre-treatment
- Sequencing – recontamination, fish windows & flow limitations

FS support documents

- Draft Treatability Study Literature Survey Technical Memorandum
- Side scan sonar FSP
- Mobility testing FSP – TCLP, MET, SBLT

Milestones for 2008

- Round 3B data available May 2008
- Data lockdown June 2008
- Complete model runs (food web model, fate and transport) mid October
- Draft baseline risk assessment
- Draft RI report

2009

- Remedial Action alternatives screening
  - Look at individual SMAs
- Begin detailed analysis of alternatives
  - Alternative groupings (ie, technology emphasis)
- Complete detailed analysis

2001

AOC MOU

2002/2003

Begin Round 1 Work Plan

ROUND 1 SAMPLING:
- Fish Tissue
- Sediment
- Bathymetry

Summer 2004

Approved Work Plan and Field Sampling Plan

ROUND 2A SAMPLING:
- Surface
- Subsurface
- Bioassays

Fall 2004

Round 1 Site Characterization Report

ROUND 2A SAMPLING:
- Surface Water
- Groundwater pilot

Winter 2005

Step 1 Hydro Model Report

ROUND 2A SAMPLING:
- High Flow Surface Water

Summer 2005

Round 2A Data Report

ROUND 2B SAMPLING:
- Sediment Cores
- Subyearling Chinook

Fall 2005

Food Web Model Report

ROUND 2B SAMPLING:
- Benthic (clams)
- Groundwater

Fall 2006

Framework Issues

ROUND 3A SAMPLING:
- lamprey
- Up & downstream
- Surface Water

Spring 2007

Round 2 Report

ROUND 3A SAMPLING:
- Sturgeon
- Storm Water

Summer/Fall 2007

F&T Model Report

ROUND 3B SAMPLING:
- Biota Tissue
- FS (N&E)
- Risk (bioassay)

2008

Draft RI and Baseline Risk Assessments

2009

Draft FS Report

2010

Proposed Plan and Record of Decision

Portland Harbor Remedial Investigation and Feasibility Study

EPA Project Team

Remedial Project Managers:

- Eric Blischke – RI/FS (503) 326-4006
- Chip Humphrey – RI/Fs (503) 326-2678
- Sean Sheldrake - early actions (206) 553-1220
- Kristine Koch – uplands/PRP search (206) 553-6705

Community Involvement and Outreach

- Judy Smith (503) 326-6994

Attorney

- Lori Cora (206) 553-1115

Learn more on-line

- DEQ : http://www.deq.state.or.us/nwr/PortlandHarbor/ph.htm
- EPA : http://yosemite.epa.gov/R10/CLEANUP.NSF/sites/PtldHarbor
- Community Advisory Group: http://www.portlandharborcag.org/
- DHS Fish Advisory:
- http://www.dhs.state.or.us/publichealth/fishadv/index.cfm