



# Portland Harbor Source Control

## Portland Harbor CAG Meeting

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<http://www.deq.state.or.us/lq/cu/nwr/PortlandHarbor/Index.htm>



# Presentation Outline

- **Portland Harbor Agencies' Roles**
- Goals & Objectives of Source Control
- Implementing Source Control
- Upriver Source Control
- Source Control Challenges



# Portland Harbor Agencies' Roles

## Portland Harbor MOU Signed 2/01

- Identifies roles & responsibilities of EPA & DEQ
  - EPA Lead Agency overseeing in-water work
  - DEQ Lead Agency overseeing upland SC
- Establishes inter-governmental project team
  - EPA, DEQ, 6 tribal governments, & 3 NRT agencies



# DEQ's Role in PH Source Control

- Identify upland sources of contamination threatening the river
- Oversee upland RP's source control work
- Coordinate upland source control work with PH in-water RI/FS



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# Goal of PH Source Control

- “Identify, evaluate, & control sources of contamination that may impact the Willamette River in a manner that is consistent with the objectives & schedule for the Portland Harbor RI/FS.” (12/05, JSCS)



# Objective of PH Source Control

- **Control upland sources posing unacceptable risk to in-water receptors.**
- **Prevent recontamination from uncontrolled upland sources**



# Achieving PH Source Control

- **DEQ uses State Removal or Remedial authority to achieve source control**
- **Typically perform source control actions under Removal authority to meet PH ROD schedule**



## 3 types of Source Control Decisions

- 1) Is there a source & complete contaminant pathway to the river?**
- 2) What source control measure is needed to control the source?**
- 3) Has the source control measure adequately controlled the source?**



# EPA/partners' Review of Source Control Decisions

**DEQ submits all our draft source control decisions to EPA for their review & comment**





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# Contaminant Transport Pathways

- **Overland run-off & bank erosion**
  - Soil to sediment
- **Stormwater**
  - Water & solids to river/sediment
- **Groundwater**
  - Dissolved & free phase to river/sediment



# Joint Source Control Strategy

- Developed jointly by DEQ & EPA & finalized 12/05
- Establishes regulatory & technical framework for controlling on-going upland sources of contamination threatening the river
- <http://www.deq.state.or.us/lq/cu/nwr/PortlandHarbor/jointsource.htm>



# Joint Source Control Strategy

- JSCS is a screening-level risk assessment
- Upland contaminant concentrations are compared to Screening Levels Values (SLVs) protective of the river
- Sources exceeding SLVs are further considered for Source Control Actions



# Focus of Source Control

- Implement effective Source Control Measures (SCMs) at all High Priority sites by PH ROD (late-2010)
- Complete Source Control Evaluations (SCEs) at all Medium & Low Priority sites by 1/09
- Stormwater



# PH Milestone Reports

- Submitted on bi-annual basis
- Provides status & schedule of DEQ's upland Source Control efforts
- <http://www.deq.state.or.us/lq/cu/nwr/PortlandHarbor/jointsource.htm>



# High Priority Sites- SCMs

DEQ identified 7 sites as High Priority for Source Control Measures:

- OSM
- Gasco
- Willbridge
- Siltronic (MGP)
- Exxon/Mobil
- Arkema
- Gunderson



# High Priority Sites- SCEs

DEQ identified 9 sites as Preliminary High Priority for Source Control Measures:

- City OFs
- Schnitzer Steel
- T4 Slip 1
- MarCom S
- Rhone Poulenc
- PEO
- Kinder Morgan (GATX)
- Arco/BP
- Siltronic (TCE)



# Source Control Status

- **16 High Priority Sites**
  - SCMs implemented at 3 High Priority Sites & interim SCMs in-place at 6 High Priority Sites
- **12 Medium Priority Sites**
  - None of the Medium Priority sites have SCE completed, but all are on schedule to be completed by end of 2008.



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# Upriver Source Control

- Contamination is likely entering PH from upriver
- City, DEQ, & other parties will conduct a sediment investigation in the Downtown Reach in Spring '08 to provide preliminary understanding of sediment contamination from RM 12-16



# Upriver Source Control Scope of Work

- >70 surface sediment samples
- >30 sediment core samples
- Analyze samples for PH contaminants



## Upriver Source Control- Use of Data

- Preliminary assess the nature & extent of sediment contamination
- Preliminarily evaluate whether existing sediment contamination poses a risk to receptors
- Preliminarily evaluate whether existing sediment contamination poses a recontamination threat to Portland Harbor



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# Source Control Challenges

- Stormwater
- Upriver source control
- Source control triggers & performance standards
- Loading
- Schedule