

Priorities for Environmental Cleanup

***Washington State Department of Ecology
Toxics Cleanup Program***

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Local Toxics Control Account Funding

1987-89 Biennium - 2013-15 Biennium





State Toxics Control Account Funding Puget Sound Initiative



Sediment Management Standards

Guiding Principles for 2013 Rule

- Harmonize the SMS and MTCA cleanup provisions to make the cleanup process more efficient.
- Improve implementation of the SMS rule for cleanup.
- Provide PLP incentive and predictability to conduct cleanup efficiently.
- Reduce risk to human health and the environment by conducting cleanup and source control.



SMS Rule - Implementation

- Rule adopted 2/22/13; effective 9/1/13
- Since then we've focused on implementation:
 - Guidance Development
 - Establishing Background:
 - Regional background – Port Gardner and Bellingham bays
 - Natural Background – Puget Sound wide
 - Sediment cleanup – Fidalgo Bay, Port Gamble, Carty Lake and Lake River

Regional Background Port Angeles

- Originally focused regional background sampling on the North Olympic Peninsula
- Currently considering regional background for Port Angeles Harbor
- More information to come this year



Regional Background Port Gardner

- Phase I: 2013
- Utilized lessons learned in Phase I to rethink
- Phase II: 2014
- Completed December 2014.
- Established regional background values for cPAHs and PCBs
- Publication No. 14-09-339



Regional Background Bellingham Bay

- Utilized lessons learned from Port Gardner and North Olympic Peninsula/Port Angeles efforts
- Completed March 2015.
- Resulted in regional background values for cPAHs and dioxin
- Publication No. 15-09-044



Puget Sound Initiative

- Over 100 sites around Puget Sound
- Restoring abundant natural resources and enhancing recreational access
- Assessing contamination baywide
- Working with Tribes on human and environmental health, and cultural and natural resources
- Working throughout communities to understand baywide context and individual site cleanups





Cleanup - Fidalgo Bay

Before Cleanup



After Cleanup



- \$16 million investment for upland and sediment cleanup at Custom Plywood
- Impacted by woodwaste, pilings, dioxin, industrial debris

Cleanup - Port Gamble

- Puget Sound Initiative bay
- Impacted by woodwaste, pilings, mill site chemicals
- Interim action 2007
- Removed 500,000 pounds of pilings, concrete, debris
- Final cleanup - July 2015
- Restore over 2 acres of native eelgrass
- Restore ~1.5 acres of degraded riparian habitat



Cleanup – Carty Lake and Lake River

During Cleanup - 2014



After Cleanup - 2015



- Part of the Ridgefield National Wildlife Refuge
- Impacted by dioxins
- Dredging, bulkhead removal, native grass and wetland restoration

Cleanup – Lower Duwamish

- Record of Decision issued.
- Source Control Strategy:
 - Protecting the cleanup investment is high priority
 - Integrating water quality and cleanup actions to implement source control.
 - What is the balance between Water Quality and MTCA regulatory approaches?
- Pollutant Loading Study:
Technical Advisory Committee meetings shaping the direction



Cleanup – Future Work in 2016

- Fidalgo Bay:
 - Custom Plywood:
 - Thin layer capping
 - Monitoring of activated carbon plots in eelgrass beds
 - March Point – upland cleanup construction (2016/17)
- Port Gardner Bay:
 - Mill A interim action
 - Bay Wood
 - North Marina Ameron/Hulbert
 - TC Systems