



Cleaning up the Lower Duwamish

The Lower Duwamish Waterway Group (LDWG) is a partnership among The Boeing Company, King County, the City of Seattle, and the Port of Seattle. We have worked with the U.S. Environmental Protection Agency (EPA) and Washington Department of Ecology for more than 12 years to study the best and most effective alternatives to clean up the Lower Duwamish Waterway, which was listed as a Superfund site in 2001.

LDWG supports a healthy river and community. For more than a decade we have worked to advance the cleanup of the waterway through \$40 million in scientific studies, and committing \$150 million to early cleanup actions that will reduce PCB contamination in the waterway sediment by 50 percent. Our early action work is cleaning up 29 acres of sediment, including some of the most highly contaminated areas.

We are also stepping forward to learn how to better protect people who eat seafood from the Duwamish. This survey and a pilot study to test the effectiveness of using activated carbon as a cleanup tool (similar to a household water filter) represents another investment by LDWG to clean up the waterway.

In 2013, EPA released a proposed plan to clean up the waterway and a final Record of Decision is expected by the end of 2014. We have concerns about the open-ended nature of the goals identified in the proposed plan, but we support EPA's approach to reduce risks to human health by 90 percent through a science-based combination of dredging, capping, and natural recovery.

More dredging is often put forward as a cleaner solution, but science tells us that to dredge even more sediment would take longer, impact local communities to a greater degree, cost at least \$160 million more, and not do anything to further reduce people's risk from eating fish.

After the Record of Decision is published, we will work with EPA and other potentially responsible parties to reach legal agreements for conducting the cleanup, allocate cost responsibility, continue baseline studies, and begin detailed cleanup design.

LDWG supports a plan that results in a historic cleanup of the river that is cleaner than almost any other Superfund Site in the nation, of which EPA, the state, and the other parties can point to as a real success. This means a cleanup that:

- Reduces human health risks and achieves cleanup goals as quickly as possible.
- Encourages participation of potential responsible parties.
- Provides greater certainty around a cleanup timeframe.
- Minimizes construction impacts to the community, businesses, and the environment.
- Results in an effective and permanent cleanup of the waterway.
- Preserves the regional economy through implementable, cost-effective, and minimally disruptive solutions.

We're already halfway there

Early cleanup and source control reduce risks quickly while still providing for an economical and effective cleanup for the Lower Duwamish.

Norfolk CSO remediation

5,190 cubic yards of contaminated sediment removed; 6,700 cubic yards of clean material added.

Duwamish Diagonal

68,000 cubic yards of contaminated sediment removed; clean material added.

Slip 4

9,800 cubic yards of sediment removed; 3.5 acres of clean material added and habitat restored.

Boeing Plant 2

Removal of 165,000 cubic yards of contaminated sediment is underway and the restoration of nearly one mile of fish and wildlife habitat is complete; more than 170,000 native plants now occupy five acres along the water's edge.

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Removal of over 13,000 cubic yards of sediment and cleanup of the facility and residential yards, parking strips, alleys is complete. Cleanup on streets is underway.

The City, County, and Port are also working with businesses to keep new and ongoing sources of pollution out of the river.



TODAY, THE DUWAMISH WATERWAY IS HOME TO:

100,000 jobs **25%** of King County manufacturing **38,000** residents

Businesses that handle **7.2 million tons** each year of domestic and international traffic, valued at **\$7.5 billion**.

For more information:

LDWG's website: www.ldwg.org

EPA's website:

<http://yosemite.epa.gov/r10/cleanup.nsf/sites/lduwamish>