

Welcome to the Lower Duwamish Waterway Roundtable Meeting WEDNESDAY, SEPTEMBER 28, 2022

Do you have your meeting materials?

Meeting materials (English, Vietnamese, Spanish, and Khmer) can be found on the Lower Duwamish Waterway Roundtable Website: <u>https://www.duwamishwaterwayroundtable.org/meetings</u> or scan the QR code on the right



For **Spanish, Khmer, or Vietnamese** (**Español, ੱខ្មរ, Tiếng Việt)** audio, select your language in the Zoom toolbar on the bottom right of your screen during the meeting.

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For English audio, please select English.

Facilitator's Notes



Keep yourself on mute unless you are speaking.



Balance speaking time and stay on the agenda topic.



Introduce yourself when speaking: "This is (name) with (affiliation, caucus/seat)"



In disagreements, share the reason why you feel as you do, and ask questions to find out how others feel.



Be respectful and courteous.



Be patient with potential internet connectivity issues - we will do our best to create a seamless experience!



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For English audio, please select English.

Tips for Using Zoom





Multilingual Meeting Best Practices

English participants should...

- Speak slowly!
- Take pauses every 2-3 sentences
- Avoid acronyms
- Use common language







Lower Duwamish Waterway Roundtable

Purpose

To provide a forum for interested and affected parties to make recommendations for the United States Environmental Protection Agency (U.S. EPA) to consider throughout the Lower Duwamish Waterway Superfund cleanup.



¹Non-governmental community members or interest groups not represented in the Community Caucus.

² Government entities that contribute information but do not develop recommendations, including but not limited to the Washington State Department of Ecology and others.

³ PRP = Potentially Responsible Party

⁴ Duwamish River Cleanup Coalition/Technical Advisory Group

Purpose of the Roundtable

The Lower Duwamish Waterway (LDW) Roundtable is a forum for those affected by the cleanup of the Lower Duwamish Waterway Superfund Site to make **recommendations** to the U.S. Environmental Protection Agency (EPA) during the **design** and construction of the cleanup.





Today's Meeting Purpose

For Roundtable members to learn about the early cleanup design for the Upper Reach of the Lower Duwamish Waterway, and to provide input about how the activities at each location within the cleanup area may affect residents, tribes, industry, habitat, fishers, and recreationists for consideration in subsequent planning documents in the design of the cleanup.



Today's Agenda



- Welcome, Introductions, and Where We Left Off
- Initial Cleanup Design for the Upper Reach
- Breakout Room Discussions
- Large Group Dialogue and Q&A
- Announcements from Roundtable Caucuses
- Observer Comments and Questions
- Wrap Up and Next Steps
- Optional Debrief and Informational Networking



Welcome and Roundtable Introductions



Elly Hale

Remedial Project Manager U.S Environmental Protection Agency (EPA)



Laura Knudsen

Community Involvement Coordinator U.S Environmental Protection Agency (EPA)



Welcome and Roundtable Introductions

The facilitator will review the Roundtable caucuses and caucus leads.

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v. 2022/03/21

Roundtable Steering Committee



Coordinates with EPA to guide the work of the Roundtable, including soliciting agenda topics, drafting meeting agendas, and developing Roundtable work plans.

Includes members from three interest groups:

- Residents (Primary: Jamie Hearn, DRCC; Alternate: Edwin Hernandez Reto, community member)
- Business/Industry/Labor (Primary: Pat Jablonski, Nucor; Alternate: Jonathan Hall, La Farge)
- Fishers (Rotating: Sophorn Sim, Emma Maceda, Kevin Duong)



• UPPER REACH: Where we were at the last Roundtable

Sampling in 2020 and 2021, combined with data from the Remedial Investigation and other studies, was used to refine the cleanup boundaries.



♥ UPPER REACH: Where we are now

Sampling in 2020 and 2021, combined with data from the Remedial Investigation and other studies, was used to refine the cleanup boundaries.





At the previous Roundtable meeting, we...

- Discussed what to expect in the 30% cleanup design of the Upper Reach
- Identified initial ideas about how cleanup may impact caucus members in general.
- Ideas we heard included:
 - Access to fishing sites
 - Sampling schedules
 - Air pollution
 - Beach access
 - Shoreline park access
 - Traffic on land
 - Noise pollution

At today's Roundtable meeting, we will...

- See examples of specific equipment that may be used and where
- Review the specific areas where cleanup activities will occur and identify potential impacts to caucus members at those specific areas in the Upper Reach



September 28, 2022 Lower Duwamish Waterway Roundtable Meeting Lower Duwamish Waterway Upper Reach Overview of Early Design Input Session on Potential Impacts



Learning Objectives By the end of this session, we hope you will:



Understand where we are in the Superfund process for the Upper Reach



Learn more about cleanup construction



Learn what is in the early design for the Upper Reach



Provide input to EPA on how community members might be impacted by cleanup construction for the Upper Reach & beyond





Where are we in the Superfund process for the Upper Reach?



Upper Reach of the Lower Duwamish Waterway (River Mile 3.0 – River Mile 5.0)







How we go from the cleanup **plan** to cleanup **construction**





Timing Considerations for Construction



Salmon Lifecycle. Source: National Park Service.

In general, salmon and other fish travel through the Duwamish: Mid February – September

 Muckleshoot Tribe Net fishing by South Park Bridge.

 Source: ifish.net

Muckleshoot Tribe's fishing depends on salmons' timing, but typically occurs: August – early December



Cleanup construction in waterway is limited





Learn more about cleanup construction Examples of equipment and techniques

Please Note: The exact equipment that will be used depends on availability, environmental controls, efficiency, and physical surroundings.



Photo source: Anchor QEA

hydraulic arm

Examples: Dredging Equipment

Types of equipment and the names of their parts





Floating boom open bucket



Examples: Dredging methods

Dredging methods depend on site conditions.



Open clamshell bucket example – debris in mud



Closed clamshell bucket example – "environmental bucket"





Derrick Barge with wireline bucket



Derrick Barge with wireline bucket



Wireline bucket with debris



Hydraulic excavator with closed bucket



Hydraulic excavator with open bucket



Hydraulic excavator and barge ²⁵

In Water: Typical Environmental Dredging Project

On Site Equipment

- 1 barge with dredge crane
- 1-2 barges to collect dredged material
- 1 tugboat to move barges
- 1 small support vessel

Other equipment is sometimes used to:

- Contain stirred-up sediment (turbidity)
- Collect floating debris



Photo source: Anchor QEA



Video: Environmental Bucket. Credit: NW Natural





Examples: Putting down clean material for capping or enhanced natural recovery



Placing material with conveyor belt

Placing material with open bucket



Examples: Transloading (taking dredged material off barge to load on train or truck for transport)





Offloading dredged material with closed bucket and spill aprons



Offloading dredged material

Photo source: Anchor QEA

Video: Dredging in the Miami River. Credit: NW Natural





Where can we put material from a barge onto land at the Duwamish?

Two options:



- Lafarge
- 5400 W Marginal Way
- Waste Management Duwamish Reload Facility
- 7400 8th Avenue S



Waste is loaded on rail cars and transported on rail line to disposal site







What is in the early design for the Upper Reach? Detailed information about areas for active cleanup Engineering drawings relating to cleanup areas







t Marginal Way Note: Phase 3 sampling results may change the areas somewhat.

Norfolk

EAA

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Slip 6

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23





Areas 1-12

Aerial view of Areas 1-12



nternational

orge EAA

SOUTH

EAA



Areas 13-17



South Park Marina (by River Mile 3.5)



35



Areas 18-26



Photo source: Lower Duwamish Waterway Group



River Mile 3.8 East B – next to Area 18



Areas 27-28



Area 27 from north to south

Photo source: Lower Duwamish Waterway Group









Example of how engineering drawings relate to cleanup areas





This simplified diagram represents some kinds of information shown in the engineering diagrams in the 30% design.









This simplified diagram represents some kinds of information shown in the engineering diagrams in the 30% design.

The next slide shows an actual draft diagram for the 30% design.







Provide Input to EPA

Activity: How might cleanup in the different parts of the LDW Upper Reach affect you (and others in your caucus)?



Timeline for Input on Upper Reach Early (30%) Design





Potential Considerations & Impacts



Activity – Facilitated Discussion on Potential Community Impacts





Generate a list of
considerations and
impacts.



Report out in full group.

