Proposed Willamette Cove Upland Cleanup Oregon DEQ

May 13, 2020 Portland Harbor Community Advisory Group



Takeaways

- DEQ has proposed a cleanup plan for the upland portion of the Willamette Cove site
- This action is separate from in-water work
 overseen by EPA under Superfund
- We are currently accepting comments on the plan, through the end of June
- Comments can be submitted multiple ways



Topics

- What is the problem?
- DEQ versus EPA responsibilities
- Status of upland work
- Upland cleanup proposal
- How to comment, get more info
- What's next



Willamette Cove - Past





Willamette Cove - Today



Problem is...

- Extensive upland, riverbank, and in-water contamination
- Contaminants including dioxins, metals, and PCBs
- Location of the site on the Willamette River within the Portland Harbor Superfund Site



Regulatory oversight

- Site is located in the heart of Portland Harbor
- EPA is in charge of in-water and riverbank cleanup
- DEQ responsible for upland cleanup



EPA vs. DEQ responsibilities

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Upland work so far...

- Characterized environmental contamination
- Evaluated risk to humans and animals/plants, based on future use identified by site owner
- ✓ Partial (hot spot) cleanup in 2015/2016
- ✓ Proposed cleanup plan



Unacceptable Risk Site-Wide



Hot spot areas present a very high risk

Humans

• Reduced area after removal actions



Ecology

- Site-wide for dioxins
- Focused areas for other contaminants



Who's exposed to contamination at Willamette Cove



Plants & Animals:

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Health Risk and Future Use

- **Risk = Exposure** to contamination & **toxicity** of contamination.
- If either **exposure or toxicity is removed**, there is **no risk** to people or wildlife.
- The entire upland area of Willamette Cove has soil contamination that presents an unacceptable risk to human health and wildlife.
 Some areas (hot spots) present a very high risk.
- A cleanup is necessary to reduce risk and protect human health, wildlife, and the environment.



How did DEQ get to cleanup plan?

- Approval of Port/Metro Feasibility Study
- Consideration of many remedial technologies, both traditional and non-traditional



Cleanup options considered

- Traditional methods
 - Excavation and offsite disposal
 - Capping with or without consolidation
- Other options
 - Chemical treatment
 - Bioremediation
 - Thermal remediation



Challenges

- Multiple contaminants resistant to treatment methods (dioxins, metals, PCBs)
- Very low cleanup standards, notably for dioxins (low parts per trillion range)
- Need to minimize impacts to neighborhoods and carbon footprint of cleanup to the extent possible





Regulatory Considerations for Selecting a Cleanup

Proposed cleanups that are protective are evaluated against the following factors:





Soil Cleanup Proposal

• **Protect** future recreational/park users, construction workers, the houseless, plants and animals by:



- Removal of hotspots for human health*



- Consolidate and cap majority of remaining contaminated soil



- Place clean soil cover as needed
- Long-term monitoring and maintenance



Cleanup Concept

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Excavate and offsite landfill disposal

Human Health









Consolidation and Cap 😎

- Excavate/consolidate remaining soil contamination:
 - Human health risk
 - Majority of ecological risk
- Engineered Cap:
 - 3-feet minimum thickness (e.g., rock and soil)
 - Park features could be used (such as path/platform)
 - Design support planned park
 - Long-term resiliency (e.g., storms, floods, seismic)





Soil Covers 😎

- Cover site with clean soil
 - Thickness based on ecological risk left, if any
 - Minimum 1-foot topsoil to support plant growth





Cleanup Concept – Hybrid Approach



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Consolidation Location & Shape TBD



Next Steps: Remedial Design

- Remedial Design Sampling (site-wide and comprehensive)
 - Refine areas/volumes for onsite and offsite placement
- Engineers will design Consolidation Area (including location and shape) based on:
 - Pre-design sampling results
 - Size constraints
 - Riverbank cleanup
 - Design fits park infrastructure



• Long-term resiliency (e.g., storms, floods, seismic, geotech)



Proposed Cleanup Restores Site

- Excavation (Remove Sources)
 - Human health hotspots (and more) removed offsite
 - Remaining human health risk (and more) excavated and consolidated
- Caps and Covers (Remove/Reduce Exposure)
 - Engineered Barriers
 - Topsoil cover low ecological risk
- Protects humans (park users, campers, construction workers) and plants/animals



UPLAND WILLAMETTE COVE ENVIRONMENTAL CLEANUP



April 2019	
Metro and the Port of	
Portland submitted a	
report about potential	

cleanup options to DEQ. You can find it online: https://go.usa.gov/xEJwh

PUBLIC COMMENT March-June 2020

Make your voice heard!

Submit public comment on DEQ's recommended cleanup plan.

REVIEW COMMENTS Summer 2020

DEQ will consider all comments received during the public comment period.

REMEDIAL DESIGN

Detailed engineering plans are developed that present how the cleanup will be conducted.



WE NEED TO HEAR FROM YOU!

REPORT ON CLEANUP OPTIONS Early 2020

> DEQ will issue a Staff Report about the recommended plan for cleanup at the upland portion of the Willamette Cove.



PUBLIC MEETINGS March-June 2020

DEQ will host several informative meetings during the public comment period. Come find out about the site history, the proposed cleanup and how to provide comments.

FINAL DECISION Summer 2020

After evaluating comments and making any changes to the proposed cleanup, DEQ will issue a Record of Decision (ROD). This documents DEQ's final decision on how the site will be cleaned up.

REMEDIAL ACTION

Cleanup is conducted following the plans and specifications presented in the Remedial Design.



For information about Willamette Cove, including how to provide comments on the proposed cleanup, please visit: <u>https://go.usa.gov/xddNF</u>



Upland Willamette Cove Environmental Cleanup Project Partners

Get more info

- DEQ website: <u>https://go.usa.gov/xddNF</u>
 - Fact sheet, executive summary, public notice (English/Spanish/Vietnamese/Russian)
- **DEQ presentation** at the Portland Harbor CAG
 - May 13, 2020
- Environmental Cleanup Site Information database
 ECSI ID: 2066
- Contact DEQ
 - Erin McDonnell: 503-229-6900 or McDonnell.Erin@deq.state.or.us



Public Comment

- Public comment now through August 31
- Three ways to submit comments:
 - o Email: <u>WillCoveUpland@state.or.us</u>
 - Mail: Erin McDonnell, DEQ
 - \circ Public meetings

Copies of this presentation available from DEQ.



Questions?

