



Western Port Angeles Harbor Public Comment Period

Marian Abbett, P.E., Section Manager TCP-SWRO

Connie Groven, P.E., UST/Technical Support Unit Supervisor & Site Manager Abby Zabrodsky, Public Involvement Coordinator

February 5, 2025

Western Port Angeles Harbor Public Review Consent Decree, Draft Cleanup Action Plan, SEPA Determination of Non-significance



Schedule of Events

6:00-6:30 Open House

6:30-7:30 Presentation and Q&A

7:30-8:00 Open House

Public Comment Period

Comments accepted until Tuesday, February 18th at 11:59 PM.

Submit comments online:

go.ecology.wa.gov/comment11907

Visit the site webpage:

go.ecology.wa.gov/11907



Submit comments



Visit the site webpage

<section-header></section-header>	Project Team	
	Bobbak Talebi	Southwest Region Director
	Marian Abbett	Section Manager
	Connie Groven	Unit Supervisor/Project Manager
	Cheryl Ann Bishop	Communications Lead
	Abby Zabrodsky	Public Involvement Coordinator
	Carolyn Subramaniam	Public Involvement Coordinator

Documents Available for Comment We are accepting comments on:

- Consent Decree
- Draft Cleanup Action Plan (Exhibit C)
- State Environmental Policy Act Determination
 of Nonsignificance and Checklist

Site webpage:

go.ecology.wa.gov/11907

How to Comment

Comment period will close February 18, 11:59 PM

Submit comments online go.ecology.wa.gov/comment11907

Or by mail or email Connie Groven, Site Manager WA State Department of Ecology PO Box 47775 Olympia, WA 98504-7775 Connie.Groven@ecy.wa.gov



Submit comments

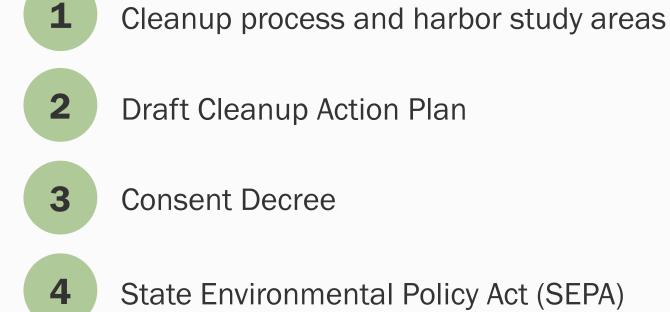
Printed document review

- 1. Port Angeles Main Library
- 2. Ecology Lacey Office by appointment
 - PublicDisclosureSWRO@ecy.wa.gov
 - or 360-407-6365

Comment Response After the comment period, we will:

- Consider your comments
- Update the documents as needed
- Respond to comments in a comment responsiveness document





Next steps

Port Angeles Cleanup Sites

1

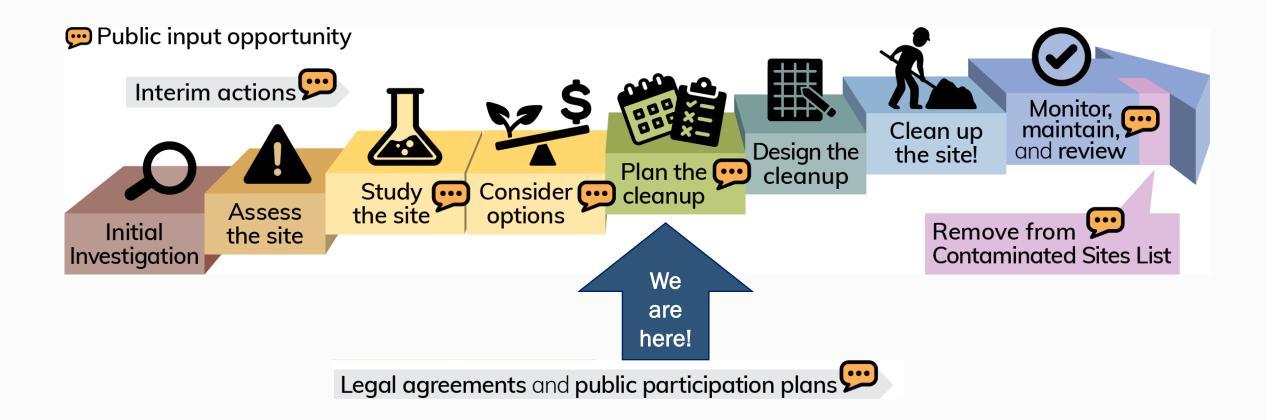
2

- 1. Western Port Angeles Harbor
- 2. Rayonier Mill
- 3. K Ply
- 4. Marine Trades Area
- 5. Terminals 5, 6 & 7
- 6. Unocal Bulk Plant #0601
- 7. Shell Oil
- 8. Pettit Oil Tumwater Truck Route

Port Angeles Harbor Cleanup Study Areas



Where we are in the process



Western Port Angeles Harbor



Draft Cleanup Action Plan

- Site conditions
- Cleanup requirement
- Selected cleanup actions
- Next steps and schedule



Western Port Angeles Harbor Group

• Port of Port Angeles • City of Port Angeles • Georgia-Pacific Nippon Merrill and Ring Owens Corning

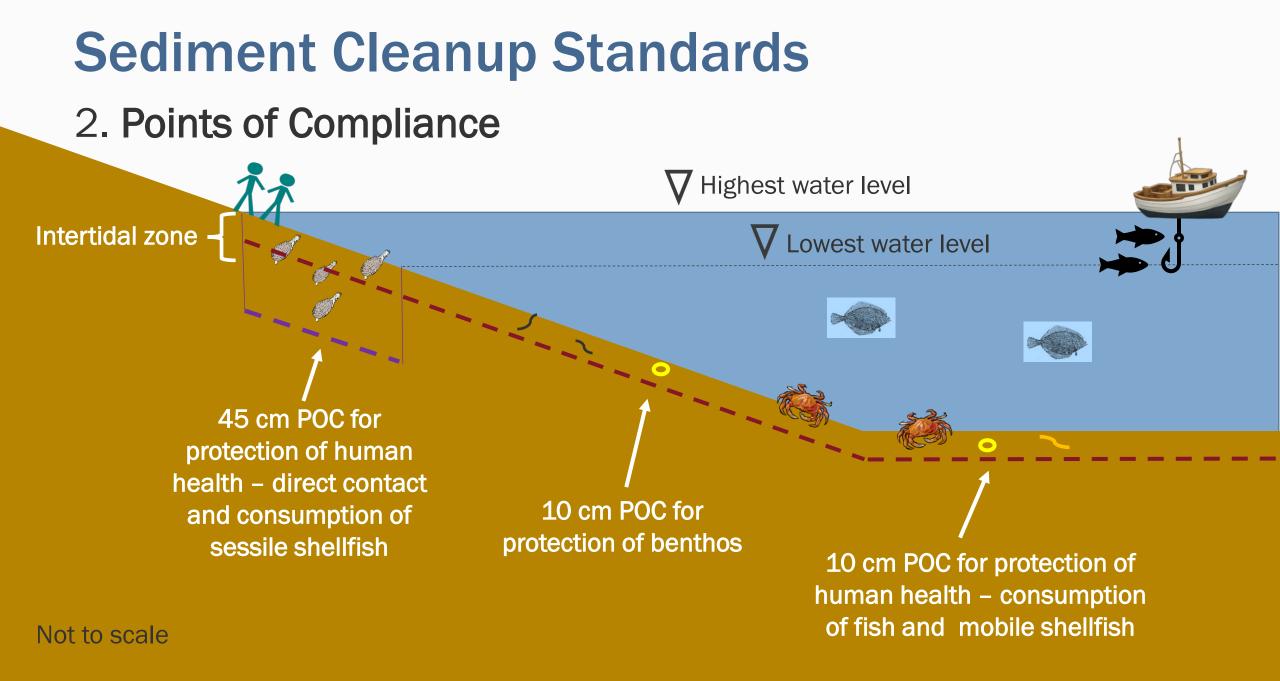
1977

Sediment Cleanup Standards

1. Cleanup Levels

- Protective concentrations
 - Protection of human health
 - $\circ~$ Protection of fish, birds and mammals
 - Protection of benthic organisms
 - Other applicable laws
- Background concentration
 - Natural background
 - Regional background
- Lowest concentration labs can measure

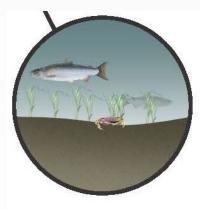
Lowest – Highest



Site-wide Sediment Cleanup Standards

10 cm Point of Compliance, Area-weighted Average

Contaminant	Preliminary Cleanup Level	
Mercury	0.13 mg/kg	
Total TEQ (Dioxins & PCBs)	5.2 ng/kg	
cPAH TEQ	64 µg/kg	

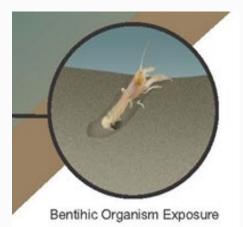


Consumption of Fish and Mobile Shellfish

Site-wide Sediment Cleanup Standards

• 10 cm Point of Compliance, All points

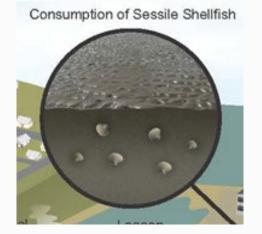
Contaminant	Preliminary Cleanup Level	
Cadmium	5.1 mg/kg	
Mercury	0.41 mg/kg	
Zinc	410 mg/kg	

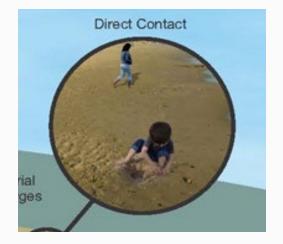


Intertidal Sediment Cleanup Standards

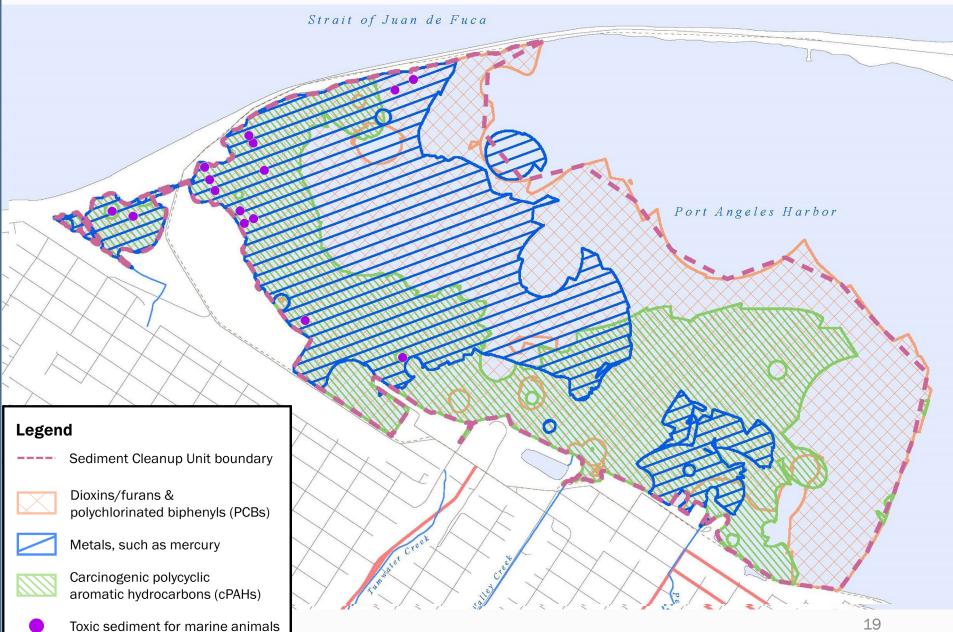
• 45 cm Point of Compliance, Area-weighted Average

Contaminant	Preliminary Cleanup Level	
Cadmium	2.4 mg/kg	
Mercury	0.13 mg/kg	
cPAH TEQ	64 µg/kg	





Areas exceeding cleanup levels





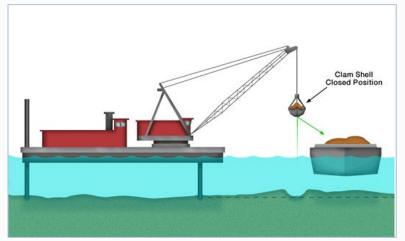
Sediment Management Areas



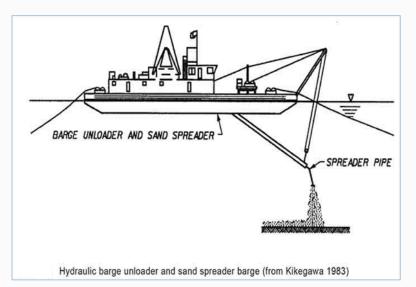
Sediment Cleanup Methods

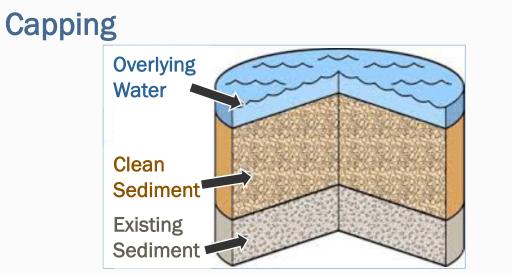


Dredging or Excavation

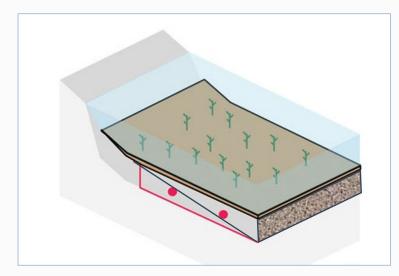


Enhanced Monitored Natural Recovery





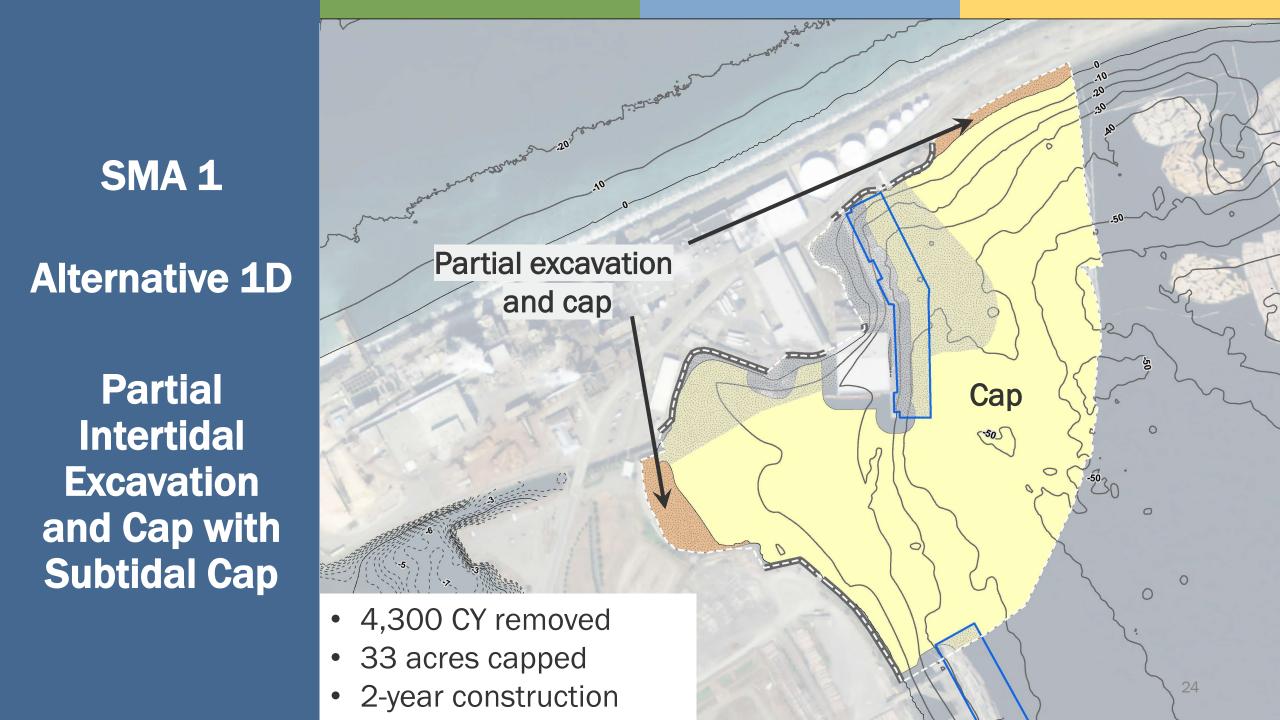
Monitored Natural Recovery





Ecology's Cleanup Action Plan

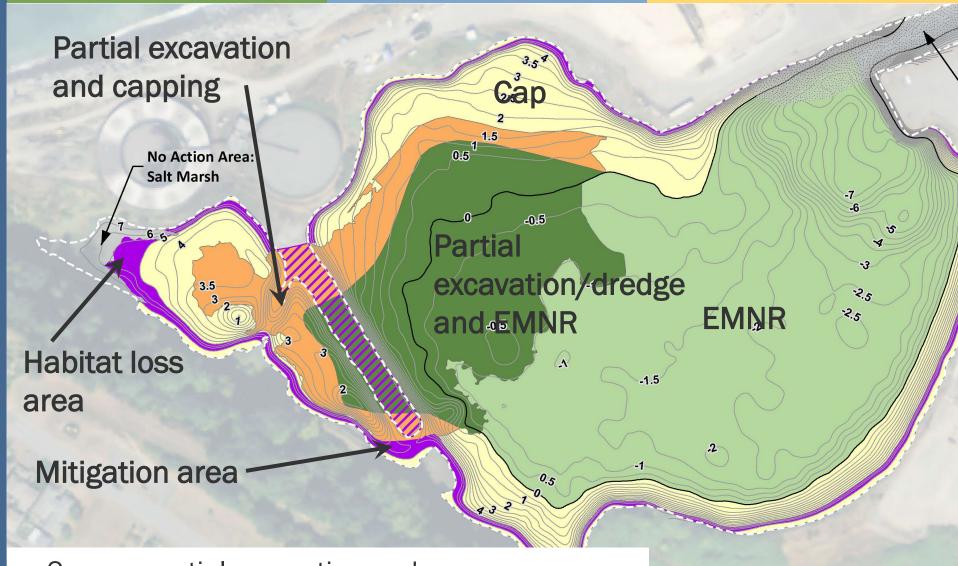
Areas	Description
SMA 1 Inner harbor	 Partial intertidal excavation with fill or capping Subtidal capping
SMA 2 Lagoon	 Intertidal capping Intertidal excavation with fill or capping Excavation or dredging with Enhanced Monitored Natural Recovery (EMNR) EMNR
SMA 3 Remaining SCU	EMNRMonitored Natural Recovery (MNR)



SMA 2

Alternative 2D

Cap, Partial excavation or dredge and cap or EMNR, EMNR



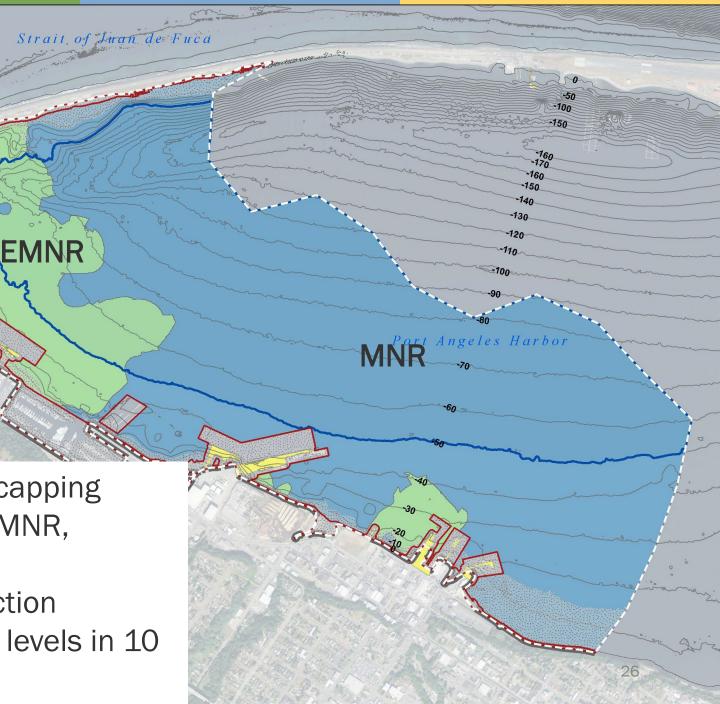
- 2 acres partial excavation and cap
- 4.3 acres partial excavation/dredge and EMNR
- 6.4 acres of cap and 11 acres of EMNR
- 2-year construction. Mitigation required

SMA 3

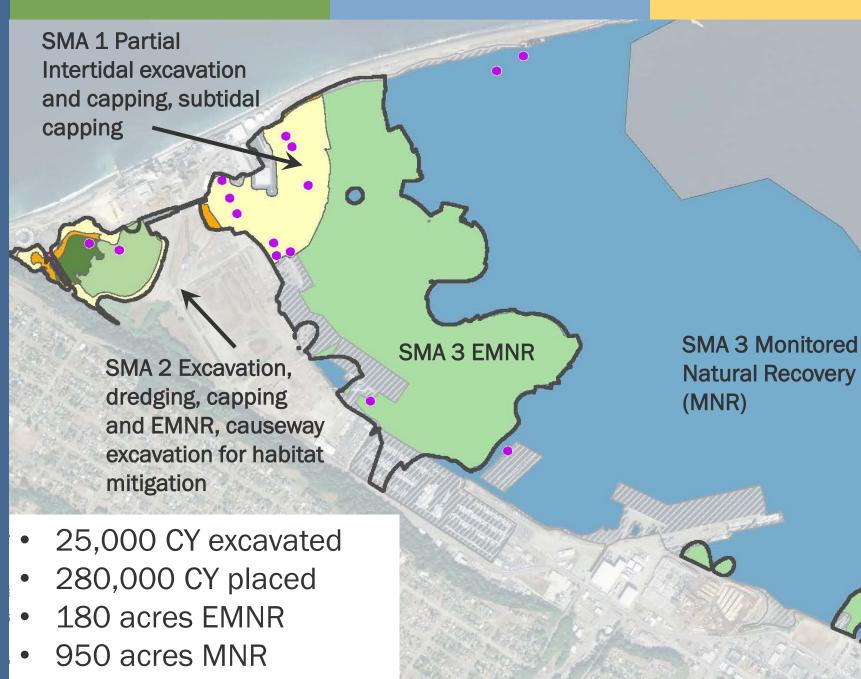
Alternative 3B

EMNR & MNR

- No removal or capping
- 164 acres of EMNR, 132,000 CY
- 3-year construction
- Reach cleanup levels in 10 years



Map of Ecology's Cleanup Action Plan



• 6 years

Ecology's Cleanup Action Plan Overview

Areas	Description	Cost*
SMA 1 Inner harbor	1-acre partial intertidal excavation &33-acres subtidal capping	\$12M
SMA 2 Lagoon	 6.5-acres intertidal capping, 2-acres intertidal excavation and capping, 4.3-acres excavation or dredging with EMNR, 11-acres EMNR & habitat mitigation 	\$10M
SMA 3 Remaining SCU	164-acres EMNR &936-acres MNR	\$15M
Total	6 construction seasons	\$37M



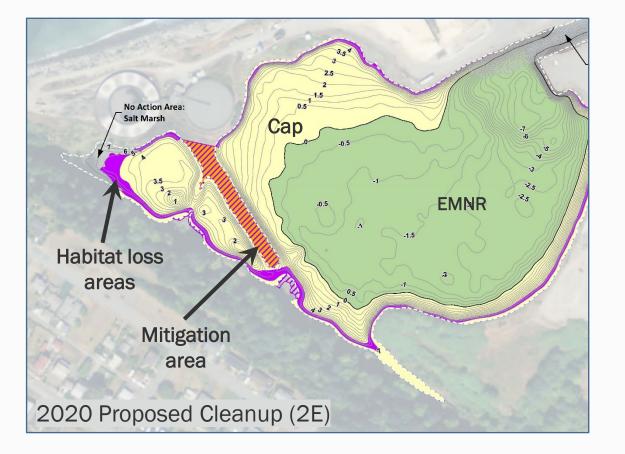
SMA 2 Factor Impact **Public Feedback** Favor removal of contamination Lagoon **Tribal Significance** Recognized cultural and historical value Lower Elwha Klallam Tribe Focus on restoration over disturbance avoidance Input Selection More understanding of rare barrier **Unique Ecosystem** beach system of a Recognized as a potentially high-value Lagoon Value ecosystem different National Marine Fisheries Service **Regulatory Push** seeks to minimize fish habitat loss remedy **Environmental Impact** Capping may increase aquatic land loss

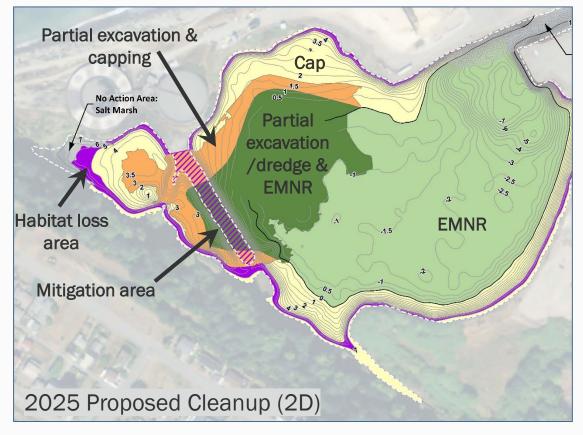
Restoration Potential

Key opportunity for ecosystem recovery



Previous plans vs. Current plans





Remedial design and construction process









Data Collection and Engineering Evaluations Remedial Design and Permitting

Construction

Long-term monitoring

- Remedial Design Work Plan
- Data submittals

- Lagoon Design Memo
- Engineering Design Report
- Construction Plans and Specs
- Permits

- Monthly Progress
 Reports
- Annual Progress Reports
- Cleanup Action Report

- Monitoring
- Periodic Reviews

Draft Cleanup Action Plan Attachment A



A-1: Construction Quality Assurance and Adaptive Management Plan (CQAAMP)



A-2: Operations, Maintenance, and Monitoring Plan (OMMP) Sediment Transload Area

Terminal 6

Possible additional staging and parking areas

Barge Area

How will the cleanup affect me?

GAT

72

EB

Consent Decree





Consent Decree Overview

- 28 sections (1 28)
 - 4 Definitions
 - 6 Work to be performed
- 3 Exhibits
 - Vicinity Map
 - Site, Study Area and Sediment Cleanup Boundaries
 - Cleanup Action Plan

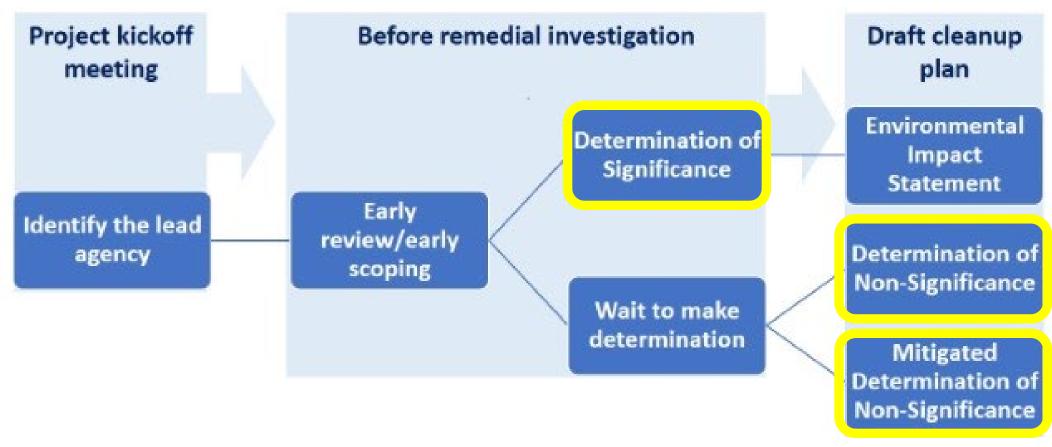
State Environmental Policy Act (SEPA)





State Environmental Policy Act (SEPA)

SEPA Review Steps During the MTCA Cleanup Process



SEPA Checklist Elements

- Earth
- Air
- Water
- Plants
- Animals
- Energy and Natural Resources
- Environmental Health
- Land and Shoreline Use

- Housing Aesthetics
- Light and Glare
- Recreation
- Historic and Cultural Preservation
- Transportation
- Public Services
- Utilities

Next Steps





Western Harbor Cleanup Steps

Cleanup Steps	Estimated Timeline
Public Comment Period for CD/DCAP/SEPA closes	February 18, 2025
Finalize CD and CAP. Prepare responsiveness summary	Spring 2025
Design sampling plan, sampling, and engineering evaluation	2025 - 2027
Engineering design, permitting, and contracting	2027 - 2029
Construction (6+ years of construction with fish windows)	2029 - 2035

Q&A Session



How to Comment

Submit Comments through February 18, 11:59 PM

Submit comments online go.ecology.wa.gov/comment11907

Or by mail or email Connie Groven, Site Manager WA State Department of Ecology PO Box 47775 Olympia, WA 98504-7775 Connie.Groven@ecy.wa.gov



Submit comments

Printed document review

- 1. Port Angeles Main Library
- 2. Ecology Lacey Office by appointment
 - PublicDisclosureSWRO@ecy.wa.gov
 - or 360-407-6365