



Cleanup of Port Gamble Bay (a portion of the Port Gamble Bay and Mill Site)

> Public Meeting May 27, 2015



### **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





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#### **Presentation Overview**



- History of industrial operations in Port Gamble
- Cleanup process and objectives
- Restoration in Port Gamble
   Bay
- Cleanup plans
- □ How to stay informed





### History of Industrial Operations

- Sawmill established in 1853 and operated by Pope & Talbot for 142 years
- □ Mill shut down in 1995 and razed after a fire in 1997
- Since 1995 the site was leased for log sorting/chipping, materials handling and a marine research facility
- 2007 Pope & Talbot bankruptcy, ownership and management continues under Pope Resources and Olympic Property Group (PR/OPG)







#### **Cleanup Objectives**





- Address threats to human health
  - Dioxins/furans, petroleum hydrocarbons and cadmium
- Address threats to the environment
  - Toxicity driven by wood waste
- □ Achieve the following:
  - Maximize active cleanup
  - Quickest time to full recovery
  - Minimize impacts of cleanup
    - Shellfish monitoring
    - Vessel management





### **Cleanup Process (MTCA)**

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#### Construction is anticipated to begin July 2015







#### **Previous In-Water Cleanup Work**













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#### Vision for Port Gamble Bay







#### Vision for Port Gamble Bay

Cleaning up, restoring and protecting Port Gamble Bay is making the bay a safer and healthier place to live, work and play.









#### Restoration

# Restoration work occurring throughout Port Gamble Bay





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#### **Eelgrass restoration**

 Restore 2 acres of native eelgrass within southwestern portion of the bay







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#### Olympia oyster habitat enhancement

Enhance more than 9 acres of oyster habitat and plant enhanced habitat with millions of oyster seed









#### Remove debris and contaminated structures

- Point Julia pier
- Middle Creek and other pilings
- Derelict barge
- Debris on bay's beaches





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#### Remove debris and contaminated structures

D Point Ju

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- Middle
- 🗆 Derelic
- Debris

This effort has removed nearly 500,000 pounds of creosote pilings, concrete, steel and debris.









#### **Riparian restoration**

- Restore more than one acre of degraded
   land with native trees, shrubs and groundcovers
- Bolster other Heritage
   Park restoration
   efforts by Kitsap
   County Parks and
   Recreation staff





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#### Pacific Herring studies

- Investigate rapid decline of Pacific herring spawning survival
- Determine genetics of Port
   Gamble herring stock
- Mussel study
  - Investigate chemicals of concern in caged mussels and collect baseline data for upcoming cleanup actions







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### Preservation in Port Gamble Bay

#### Land Acquisition

- Purchased 535 acres, including 74 acres of tidelands
- Plans to purchase ~200
   additional acres of forested
   uplands adjacent to the Port
   Gamble Heritage Park
- Collaborative community and tribal effort



Port Gamble Heritage Park

Upland block



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## Tribal and Community Input into Cleanup Design

- Incorporate best management practices
  - Pile removal
  - Dredging equipment
  - Avoid and minimize habitat impacts
- Minimize impacts to shellfish and fishery harvests
- Avoid and minimize impacts to cultural resources
- Ongoing community involvement







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#### Next Steps: In-Water Work and Construction

Construction to start July 2015 (two seasons of in-water work)





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### **Cleanup Overview**

- Pile removal demonstration
   June 2015
- Cleanup begins July 2015
- Construction activities from
   July through January of the
   next two years
- Long-term monitoring to ensure recovery



Port Gamble Bay and Mill Site

WASHINGTON STATE
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### **Overview of Cleanup Schedule**

Anticipated to be completed within two construction seasons within the allowable in-water work windows

Time	Activity
June 2015	Pile removal demonstration
July 2015 to January 2016	Begin pile removal and mill south (SMA 2) construction
July 2016 to January 2017	Finish pile removal and mill north (SMA 1) to central bay (SMA 3) construction
2017 to 2027	Monitor sediment recovery



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### Port Gamble Cleanup Project Elements

- Remove ~6,000 creosote-treated piles and overwater structures
- Excavate ~30,000 cubic yards of intertidal sediments "in the dry"
- Dredge ~40,000 cubic yards of subtidal sediments using mechanical equipment (environmental bucket)



- Transplant eelgrass to mitigate dredging impacts
- Cap 10 acres
- Cover 68 acres with thin sand layer to enhance recovery
- Monitor natural recovery over next 10 years (640 acres)



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#### **Port Gamble Sediment Management Areas**







#### **Pile Removal Demonstration**







### South Mill (SMA2)









### North Mill (SMA 1)







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#### Pile removal











#### **Beach excavation**







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#### Dredging and capping







- Best management practices
- Temporary storage of dredged material
- Health and safety measures
- Vessel management and access
- Contractor work schedule
- Communications







### **Construction Best Management Practices**

- Protect fishes by working within allowable in-water work windows
- When feasible, remove pile and excavate intertidal areas when dry
- Dredging-specific practices
  - Restrict subtidal dredging to the cooler months
  - Use environmental buckets and turbidity curtains
  - Monitor water quality
- Shellfish and archaeological monitoring





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### **Temporary Sediment Stockpiling on Mill Site**





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### Shellfish Monitoring During Construction

- Collaborative effort between
   PR/OPG, Port Gamble S'Klallam
   Tribe and Washington
   Department of Health
- Shellfish biotoxin monitoring
- Shellfish chemical monitoring





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### Land-based Access

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  - Haul routes will be used to:
    - Reuse or dispose of excavated and dredged material offsite
    - $\hfill\square$  Bring in sand and gravel
  - Haul route is designated along SR 104, Walker
     Street and Puget Way







#### Water-based Access

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- Vessel Management Plan
   ensures coordinated approach
- Barges used for in-water work
- Barge will not be anchored in eelgrass beds or documented geoduck tracts
- Activities will be directed to a primary navigation lane in and out of the bay





#### **Vessels Used During Cleanup**





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#### **Contractor Work Schedule**

#### Work schedule

- Monday through
   Saturday
- Generally working from 7 am to 10 pm
- Periodic nighttime and Sunday work
- Construction
  - Noise
  - Odors
  - Construction traffic
  - Visual impacts







#### Communications

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- Prior to construction
  - □ Open house to share cleanup construction plans—May 27
- Tribal construction coordination
  - □ Routine meetings with Ecology, Tribes, PR/OPG
- Community outreach
  - □ In-person staff to answer questions during designated office hours
  - Project hotline and email address staffed by Ecology
  - Informational signs in Port Gamble, Point Julia/Little Boston and at Salsbury Point
  - Regular updates on construction activities distributed via website, email, informational signs, and at the general store





#### Questions?





Questions or concerns during construction?

- □ Call 888-707-8663
- Email info@PortGambleBayCleanup.com
- Visit www.PortGambleBayCleanup.com
- Visit www.ecy.wa.gov/cleanup/3444.html



