

# Portland Harbor Superfund Site

Where is it?

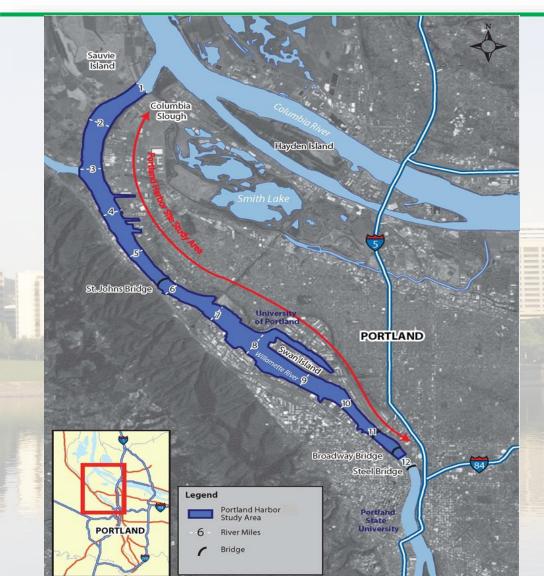
Superfund Process

Site Information

Process Moving Forward



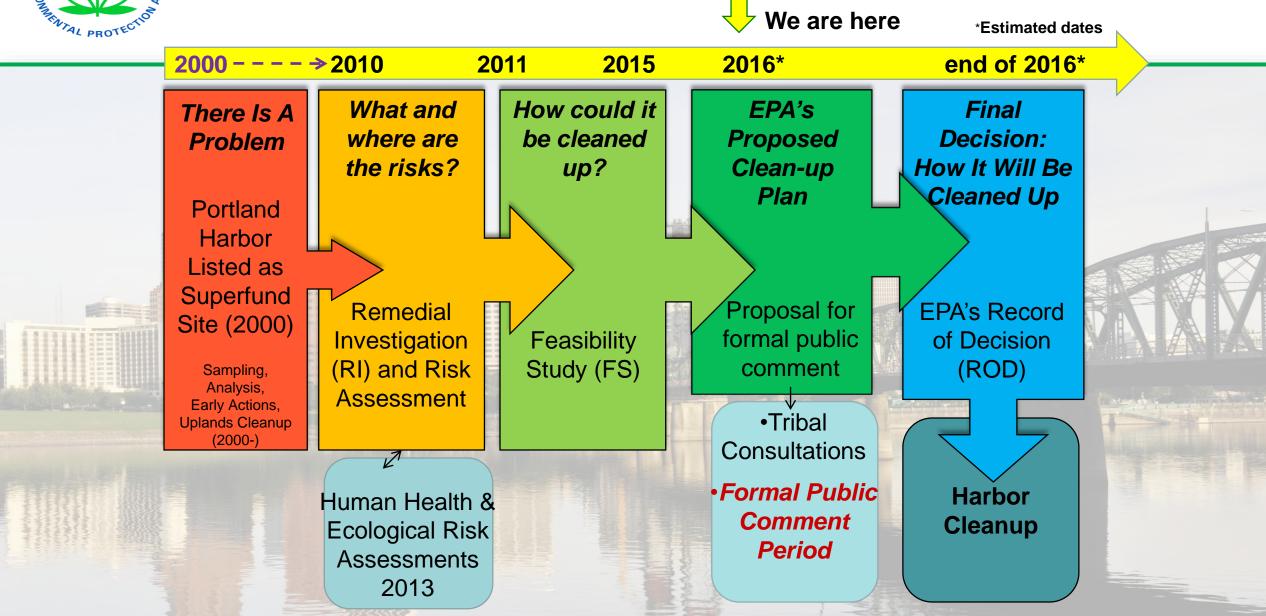
### Where is Portland Harbor?



- Industry
- Recreation (boating, swimming, camping)
- Fishing
- Shipping/Navigation
- Ecological habitat
- Tribal fishing and ceremonial practices
- Migratory corridor for salmon



### Where is Portland Harbor in the Superfund Process?





# What are the pollution issues?

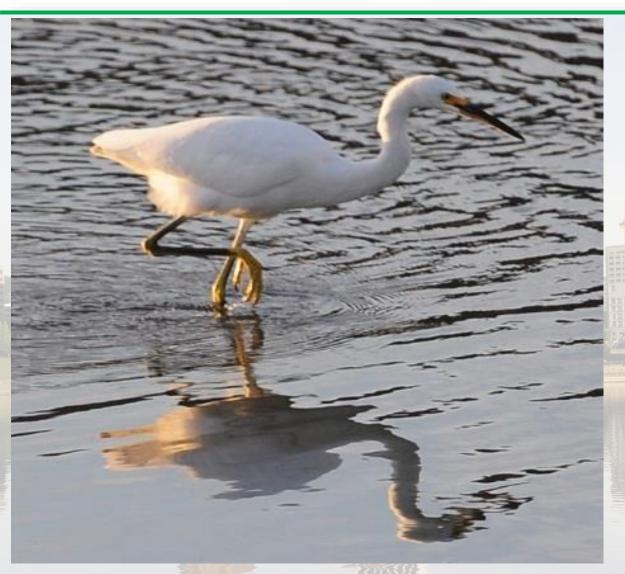
- 65 contaminants of concern
  - Metals
  - Pesticides/Herbicides
  - Dioxins/Furans
  - PCBs
  - PAHs
- "Persistent organic pollutants"
  - not readily broken down in the environment
- Widespread vs. local contamination







# What are the impacts to wildlife and fish?



- Worms and bugs exposed to contaminants in river bottom
  - Survival, reproduction and growth

Fish accumulate contaminants through food chain and exposure

Birds and mammals feed on fish and bugs 5



# What are the risks to people?



- Mainly from eating contaminated fish
- Resident fish pose greatest risk
  - carp, bass, catfish
- Children and infants are most vulnerable



# What are the cleanup methods?

#### **Dredging**



Capping



**Treatment** 



Dredging

Capping

Peeder Pump

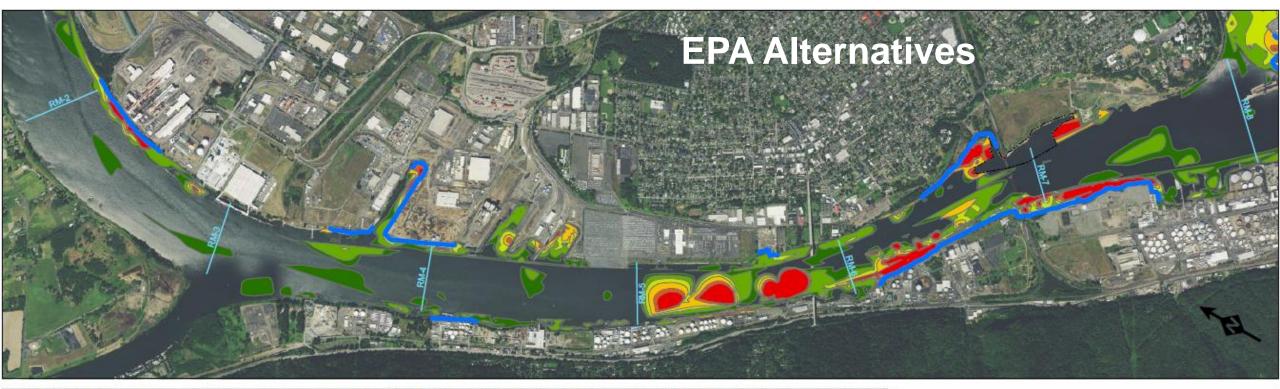
Tremie Tube

Contaminated Sediment

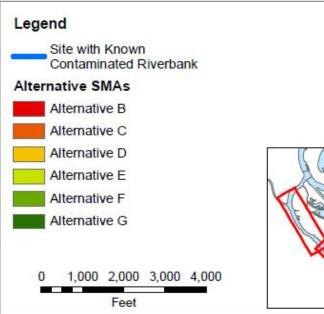


In-situ Treatment

MNR/EMNR

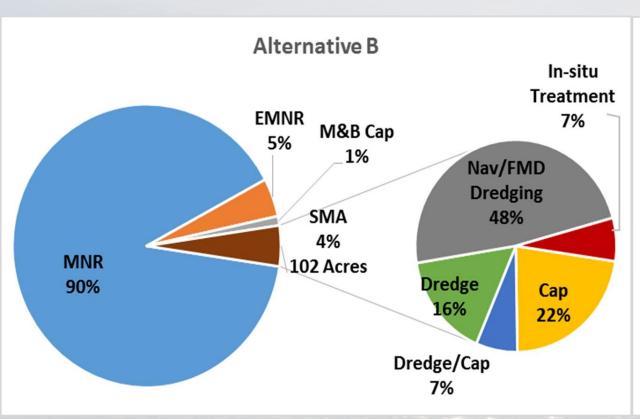


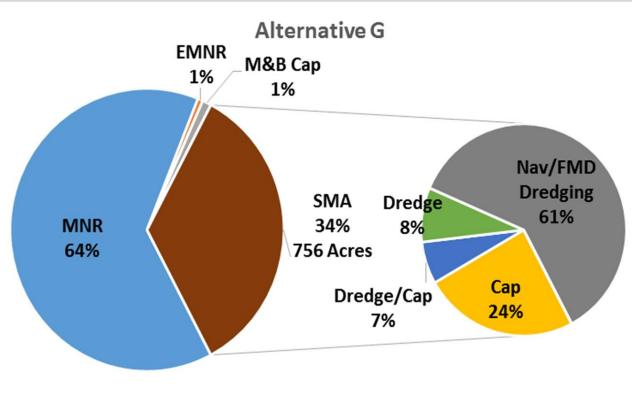






## What are the Cleanup Options?







# How and when should the community engage?

### Participate in information sessions:

- √ Feb 11<sup>th</sup> 7pm, Matt Dishman Center
- √Feb 18<sup>th</sup> 6:30pm, Wilson HS Cafeteria
- ✓ March 3<sup>rd</sup> 7pm Webinar more info coming soon!
- ✓ March 17<sup>th</sup> 7pm, SE Portland, Location TBD
- ✓ March 19<sup>th</sup> 1pm, Matt Dishman Center
- ✓ March 26<sup>th</sup> 12noon OMSI (OR Museum of Science and Industry)



### April – Proposed Plan, Public review & comment

- ✓ Series of public meetings
- ✓ Oral comments
- ✓ Written comments
- ✓ Email comments
- √ Postal mail