

Pesticide Use in the Control of Burrowing Shrimp and Japanese Eel Grass



Heather Bartlett

Washington Department of Ecology
Water Quality Program Manager



- Used for decades
- 600 acres in Willapa Bay and 200 acres in Grays Harbor
- Toxic and broad spectrum
- Willapa Grays Harbor Oyster Growers Association (WGHOGA) reached a binding agreement with other parties to phase out carbaryl and seek other pest control alternatives
- Federal and state registrations expired



Carbaryl



DEPARTMENT OF
ECOLOGY
State of Washington



Integrated Pest Management



DEPARTMENT OF
ECOLOGY
State of Washington



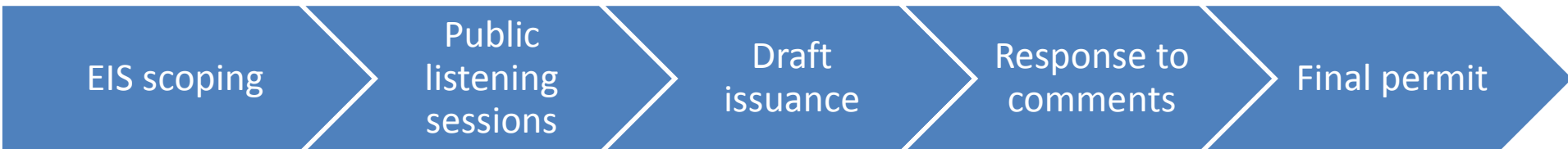
Experimental Use



DEPARTMENT OF
ECOLOGY
State of Washington

- Permit application for 1,500 in Willapa Bay and 500 acres in Grays Harbor
- Requires sediment impact zone and monitoring for special use of new chemical

Public Process



Permit Development Process



DEPARTMENT OF
ECOLOGY
State of Washington

- Ecology issued NPDES Permit to WGHOGA April 16, 2015
- Intense public response to permit issuance
- WGHOGA requested the permit be withdrawn
- Ecology cancelled the permit May 04, 2015



2015 Permit



DEPARTMENT OF
ECOLOGY
State of Washington

Oyster Bed



Shrimp Habitat



- New initial application received January 2016
- Similar public process required once application complete
- Reregistration of pesticide pending in 2016

2016-17 Permit Development



DEPARTMENT OF
ECOLOGY
State of Washington

- Permit issued in 2014 to clam growers in Willapa Bay to use imazamox to control the non-native eelgrass *Z. japonica*
- Buffer study required to ensure protection of off-site native eelgrass (*Z. marina*)
- Permit was appealed by the Coalition to Protect Puget Sound Habitat - PCHB affirmed the permit and EIS

Zoster japonica Management



DEPARTMENT OF
ECOLOGY
State of Washington

Questions?

