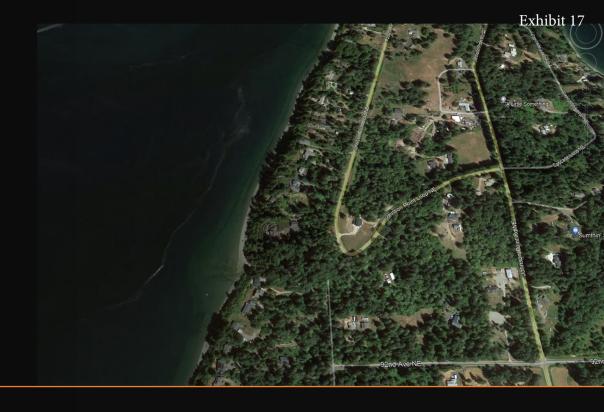
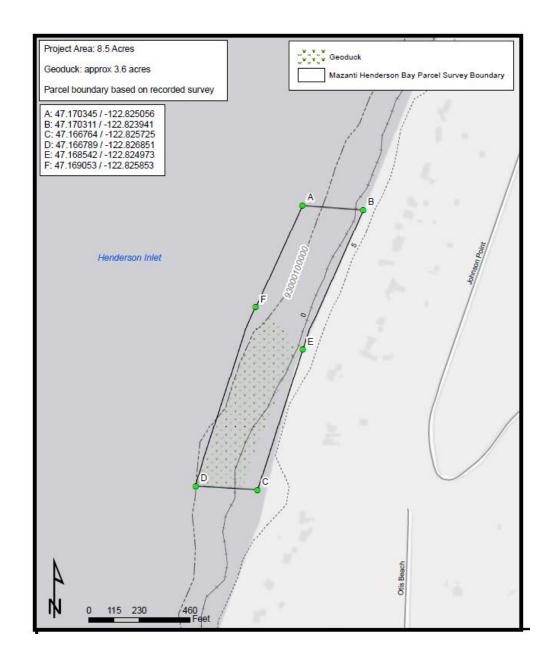
Taylor Shellfish Henderson Bay Geoduck Farm

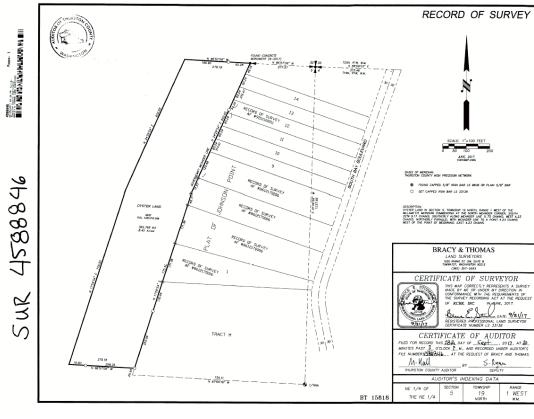
Thurston County Project 2022103702 January 9, 2024

Thurston County Hearing Examiner















Farm Details

- Planted between +1' and extreme low
- Approximately 3.6 acres
- Flexible HDPE mesh geoduck sleeves



Farmed Geoduck

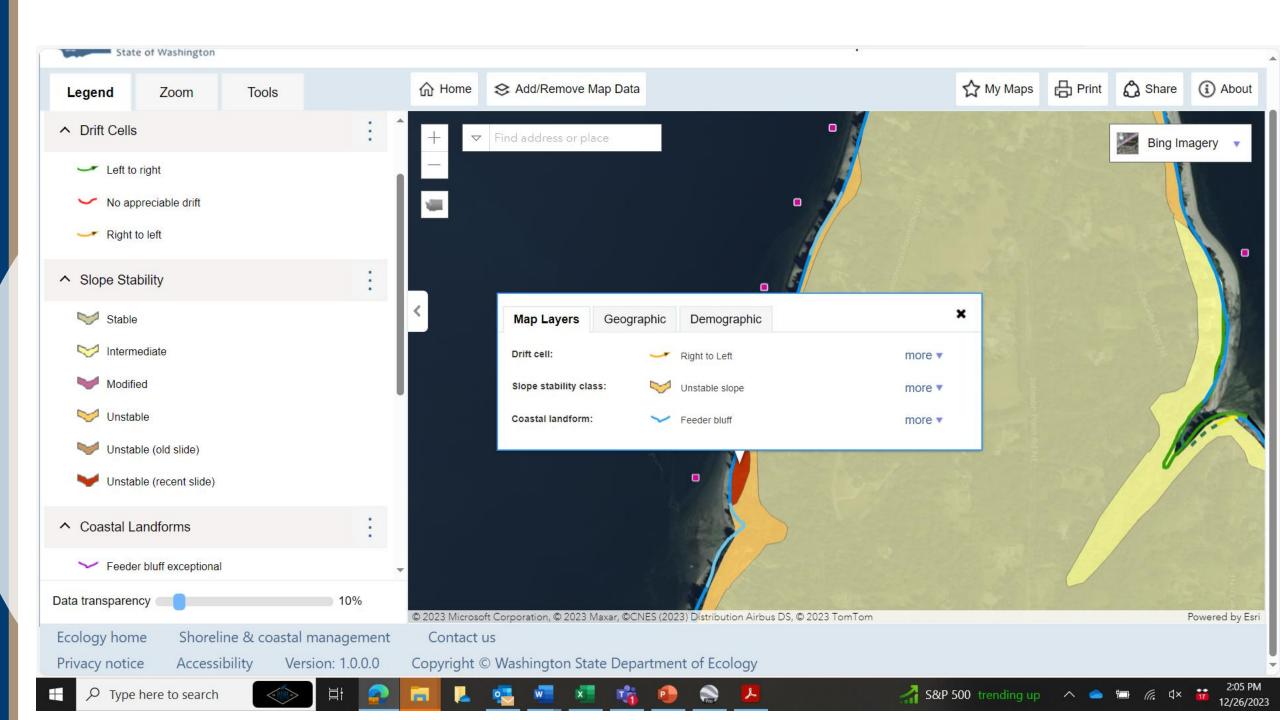


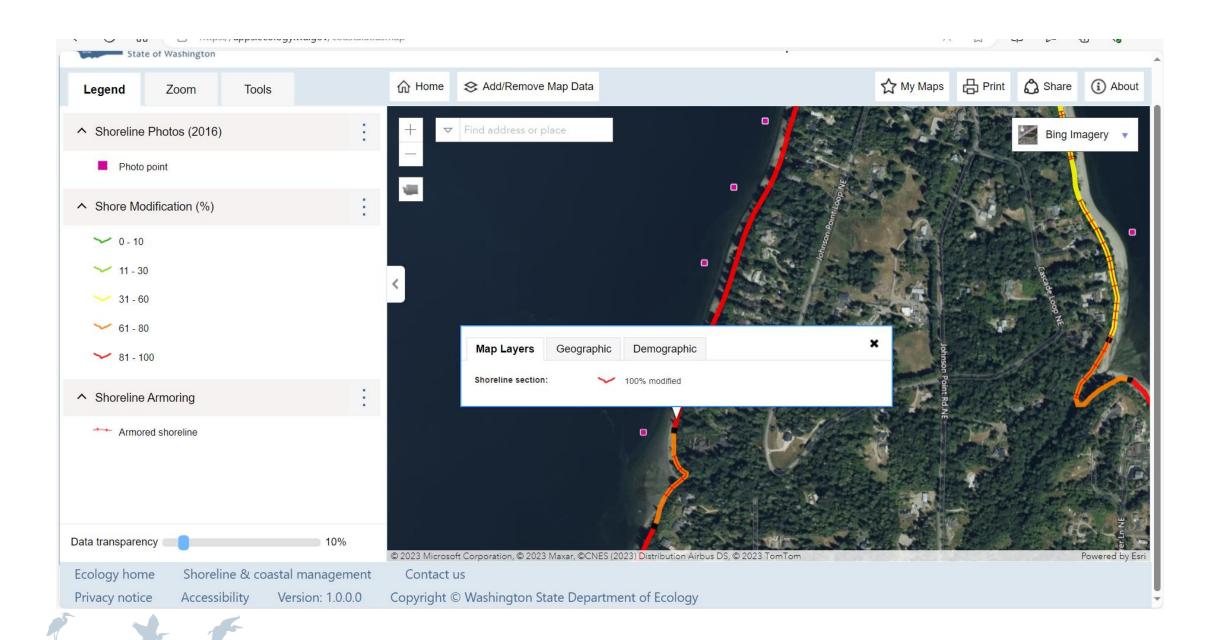


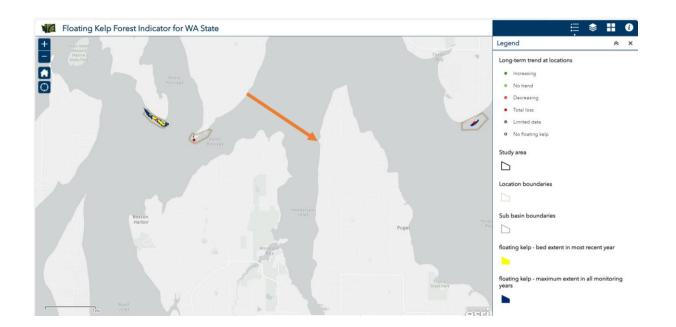


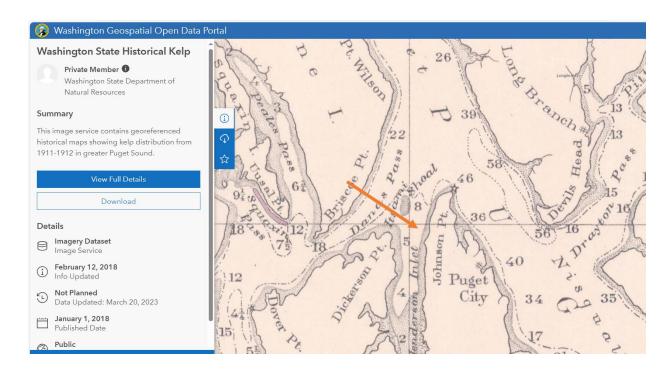




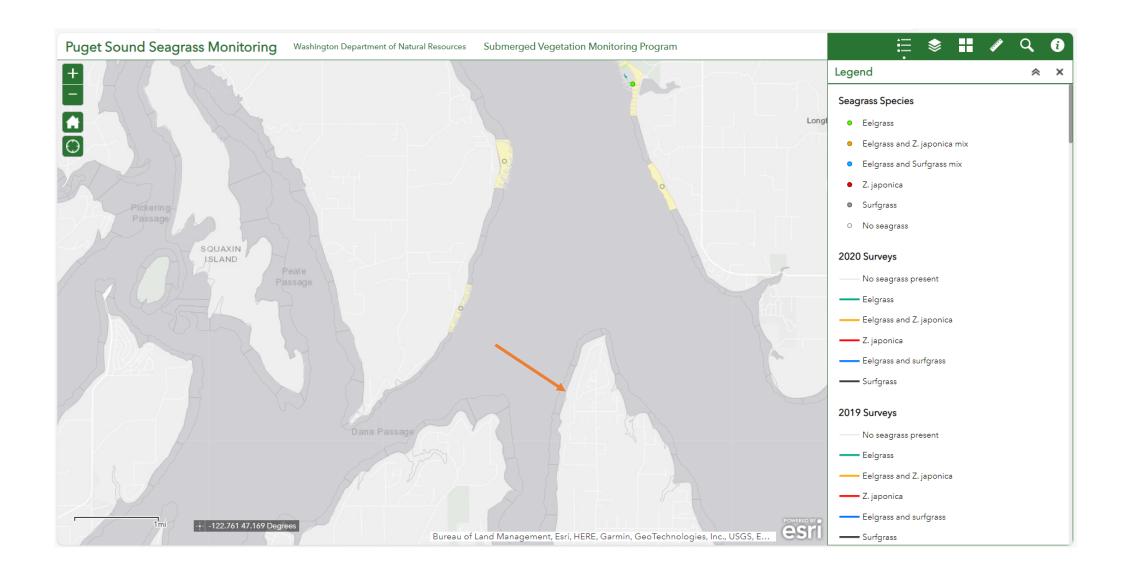




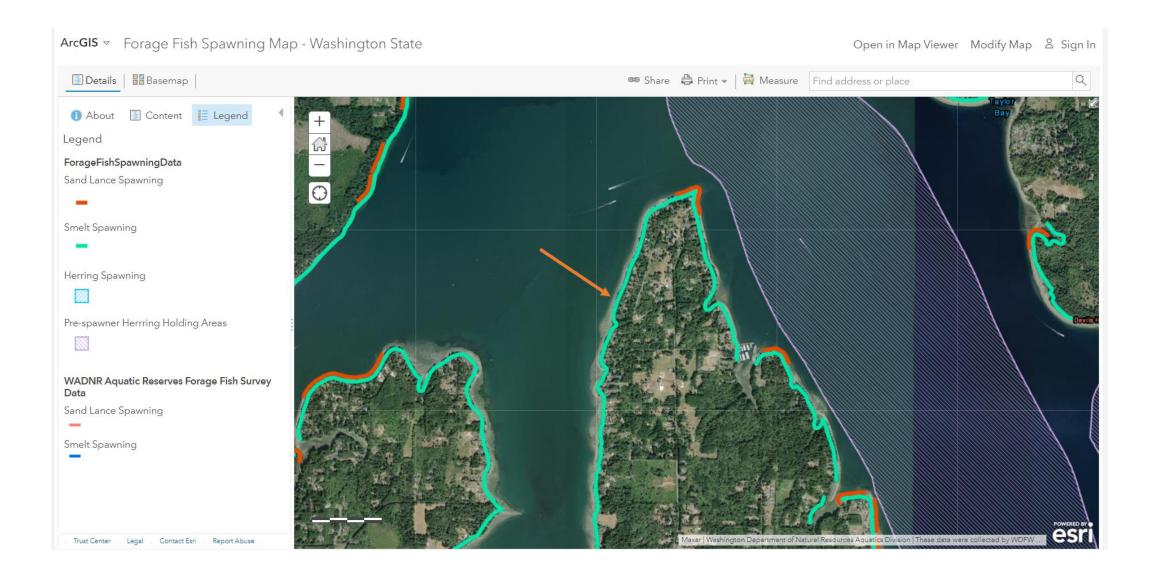














Thurston County Comprehensive Plan 2040

- "Maintain and enhance natural resource-based industries."
- The policies in the plan provide that normal aquaculture practices should not be considered a nuisance unless they threaten public health or safety.
- The residents of Thurston County envision a thriving and robust aquaculture industry and take responsibility for ensuring that its potential can be fully realized.
- Marine aquaculture activity should not be considered a nuisance if carried out in a reasonable manner and within applicable regulations. Restrictions should not be imposed on aquaculture activities unless they are necessary for preserving public health, welfare or safety.



Shoreline Management Act and SMP

- Shellfish aquaculture is a preferred, water-dependent use under the SMA [RCW 90.58.020]
- Aquaculture is an activity of statewide interest that can result in long-term over short-term benefit and protect the resources and ecology of the shoreline [WAC 173-26-241(3)(b)(i)]
- Shellfish beds provide important ecological functions and are critical saltwater habitat [WAC 173-26-221(2)(c)(iii)(A)]
- Thurston County SMP states that all types of aquaculture are allowed in the Conservancy Environment, provided that the operation is consistent with the policies and regulations of the program.



Conservation Measures and BMPs

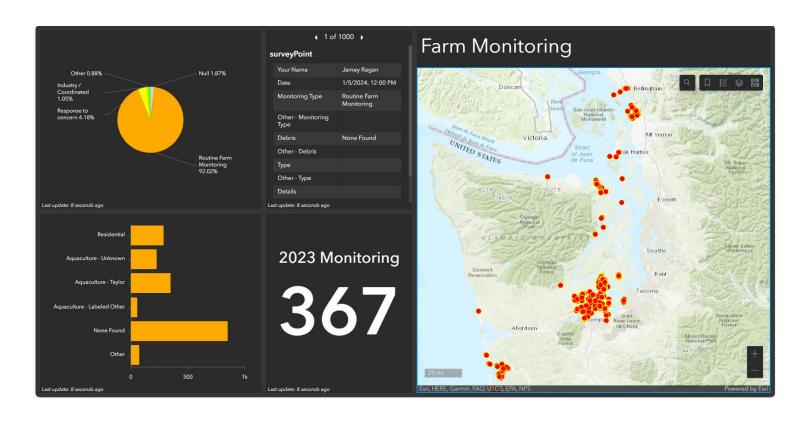
- Compliance with Programmatic ESA & EFH Consultation for shellfish activities in WA
- Protections for ESA-listed species, critical habitat, and essential fish habitat
 - Water quality
 - SAV interactions
 - Species use
 - Gear management
- Compliance with BMPs to further reduce impacts







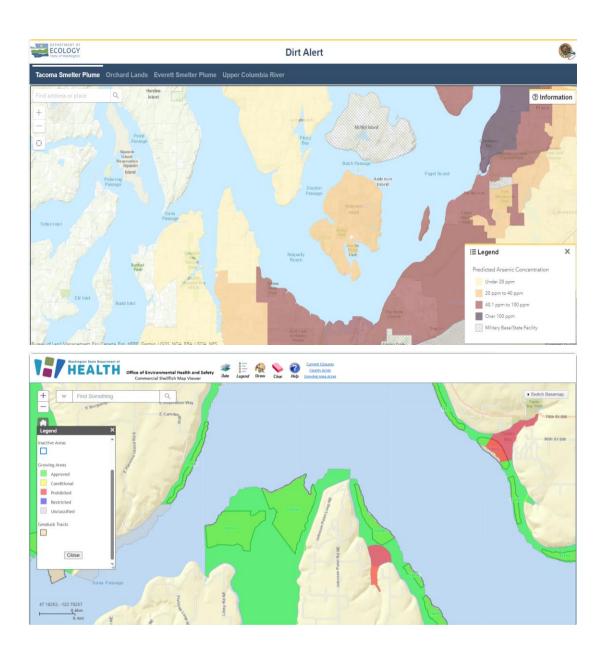
Plastics



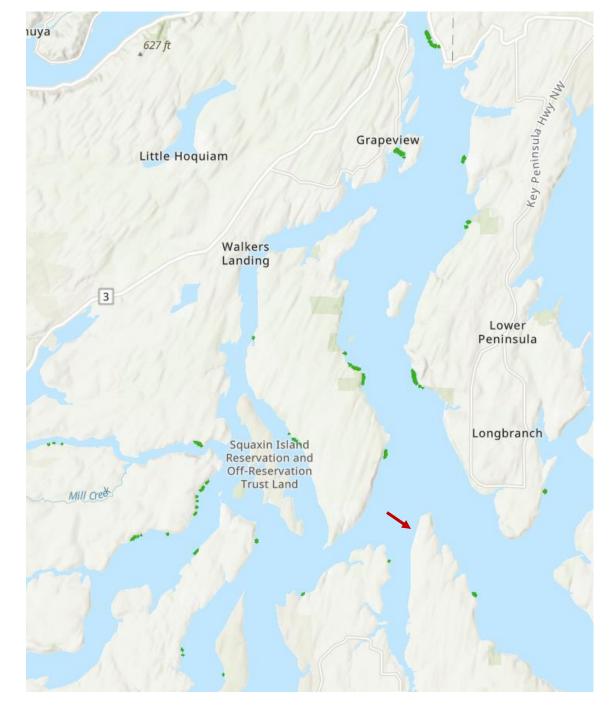


Wildlife

Water Quality



Taylor Shellfish Geoduck Farms





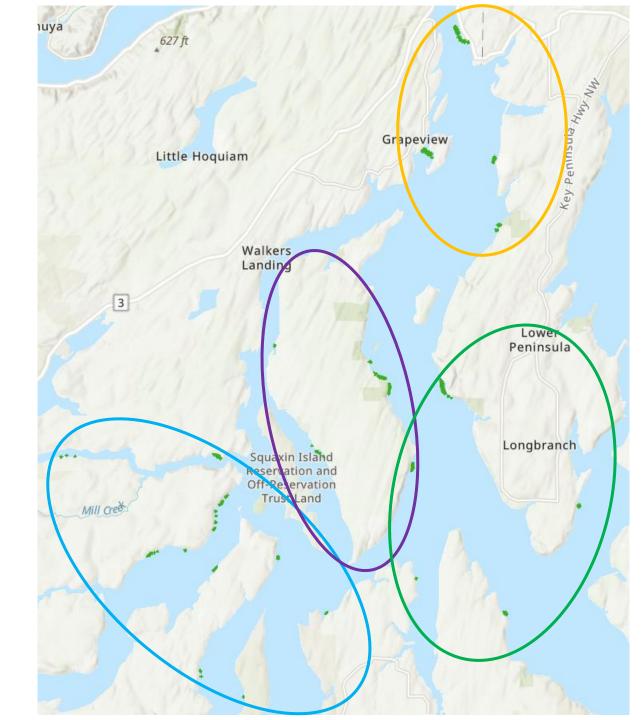


Thank you

Geoduck Farm Management

- 4 South Sound Geoduck Farm Managers
- Farm Directors oversee 3 or 4 farm managers, geoduck operations are split between two farm directors
- 5-7 years / Geoduck Crop
- Tube Installation → Planting
 → Tube Removal → Grow
 Out → Harvest





Flexible HDPE Mesh Tubes

- Replaces use of PVC and HDPE Rigid Mesh Tubes
- Less Tubes Required
- Less equipment required
- Flexible mesh reduces risk of gear escapement





West Key Peninsula – Jan 8, 2024





Geoduck: Tube Installation and Planting

- Farm crews install or plant an acre of geoduck / 7 tides.
- Place 4 seed in each flexible mesh tube.
- No net needed over flexible mesh tubes







Tube Removal and Grow Out

- Tubes removed between 1.5 2.5 years.
- Either pulled by hand or use low pressure water pump to loosen the tube from the ground.
- During grow out geoduck necks are generally the only indication that there is a farm on the site.
- Predator net may be placed on crop until harvest, if heavy predation present on farm
- Grow out between 2.5 and 4.5 years after removing tubes, depending on growth rate.





Harvest and Post Harvest

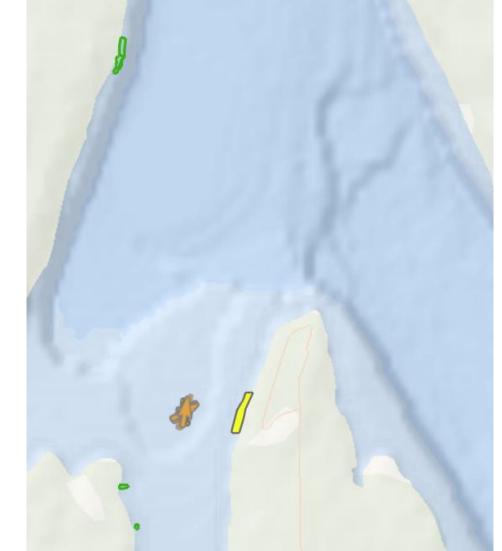
- Low pressure hose
- Harvest either low tide or dive at high tide
- Harvest using pump enclosed in insulated box to dampen noise levels
- Night harvest uses no overhead lights





Wind and Wave Energy

- Exposure of this project site is similar or less exposed than many of our East Harstine and West Key Peninsula farm sites.
- Flexible mesh tubes are installed on many of these sites and we have not seen any tubes work free.









Thank you