

Sitka Tribe of Alaska  
Southeast Alaska Tribal Ocean Research



Sovereignty through Science  
in Southeast Alaska

# NIHB Climate Ready Tribes Goals



- Building Resiliency for Tribes in Coastal Alaska
- Sovereignty through Science
- Partnership and Collaboration



# NIHB Climate Ready Tribes



- Year 1: SEATOR Workshop
- Year 2: Climate Change Mitigation Workshop
- Year 3: Ocean Chemistry Resilience in the Gulf of Alaska



# State of Shellfish



# SEATOR



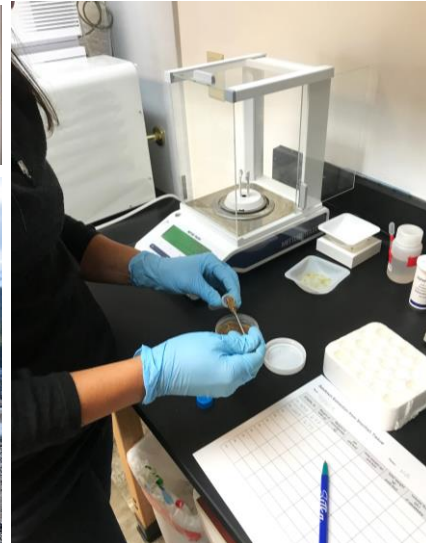
## Southeast Alaska Tribal Ocean Research Network



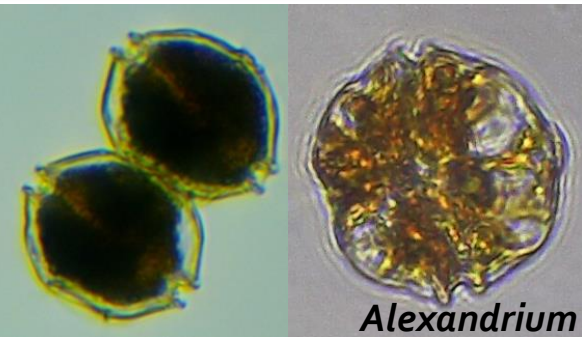
SEATOR Workshop, Sitka 2019

# SEATOR Program

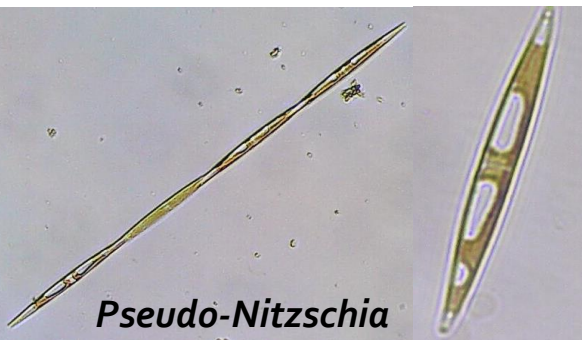
- Phytoplankton Observations
- Shellfish Toxin Testing
- Communicating Results



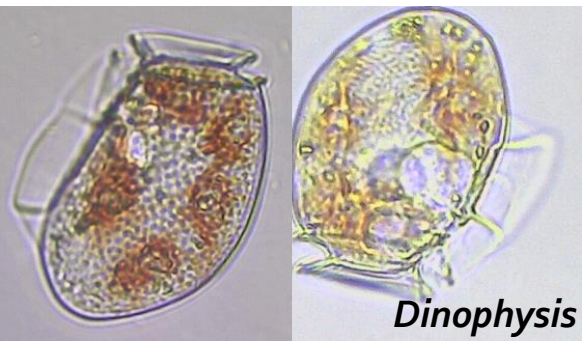
# Phytoplankton Observations



*Alexandrium*

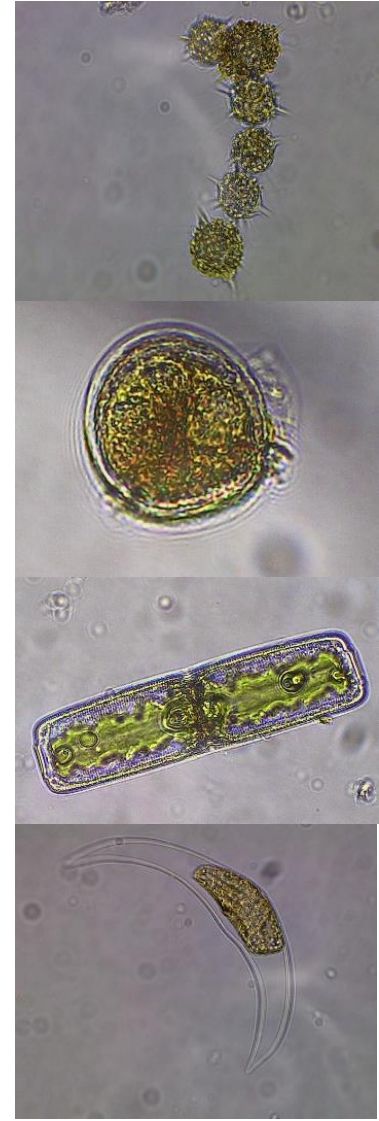


*Pseudo-Nitzschia*

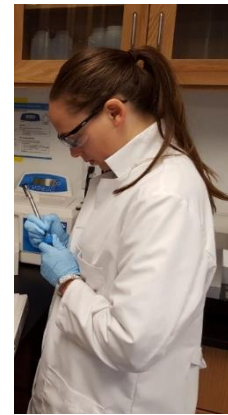
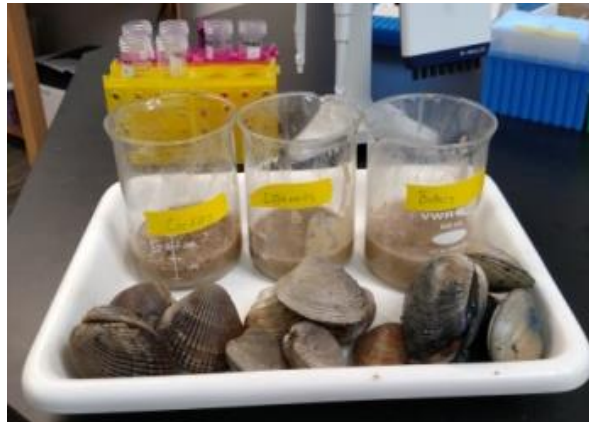


*Dinophysis*

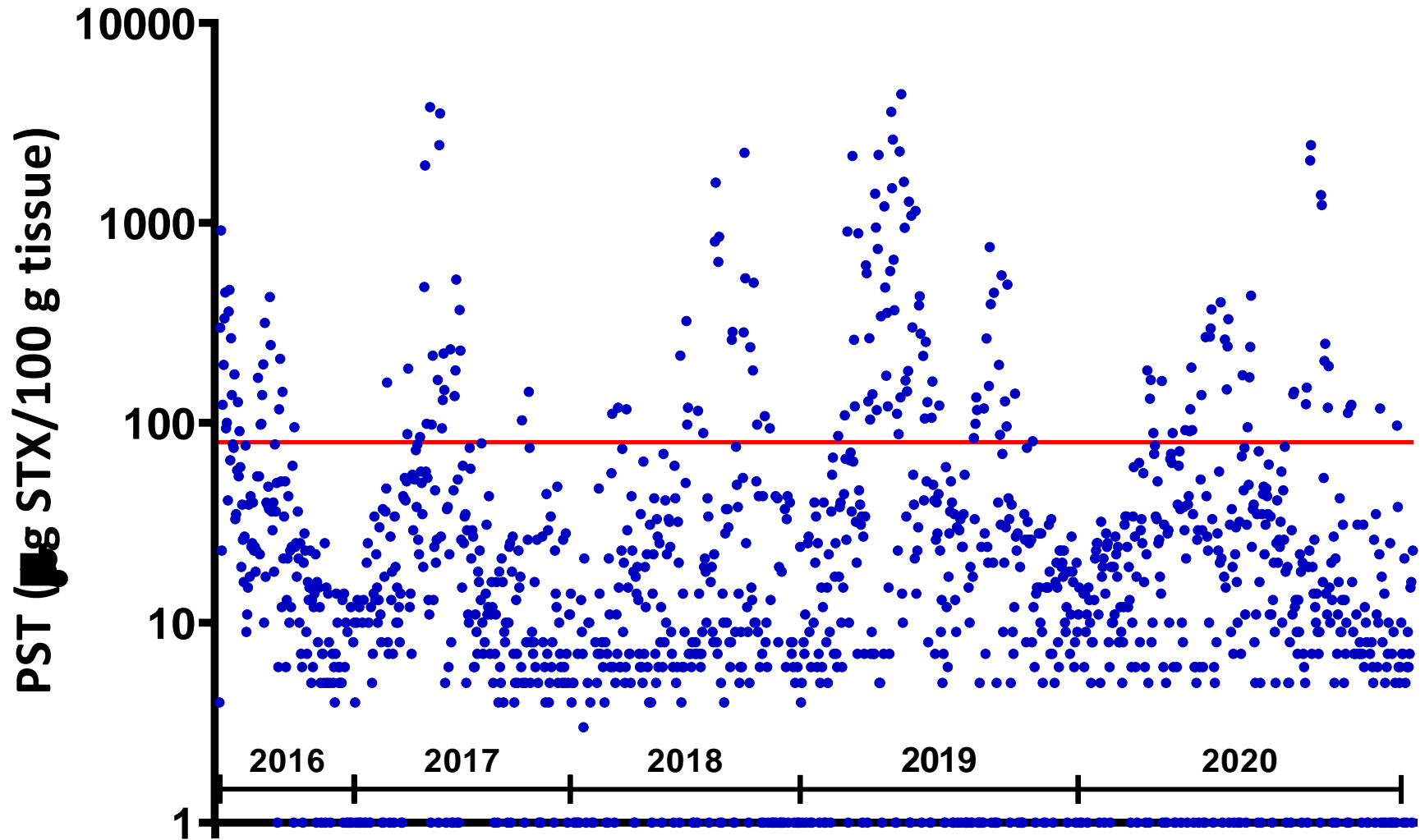
- Prioritize HAB species in microscopy
- Categorized by abundance (bloom, common, present, absent)
- Phytoplankton observations inform shellfish testing
- Over 3,000 phytoplankton observations made by SEATOR partners



# Shellfish Testing Program



# Blue Mussel Results



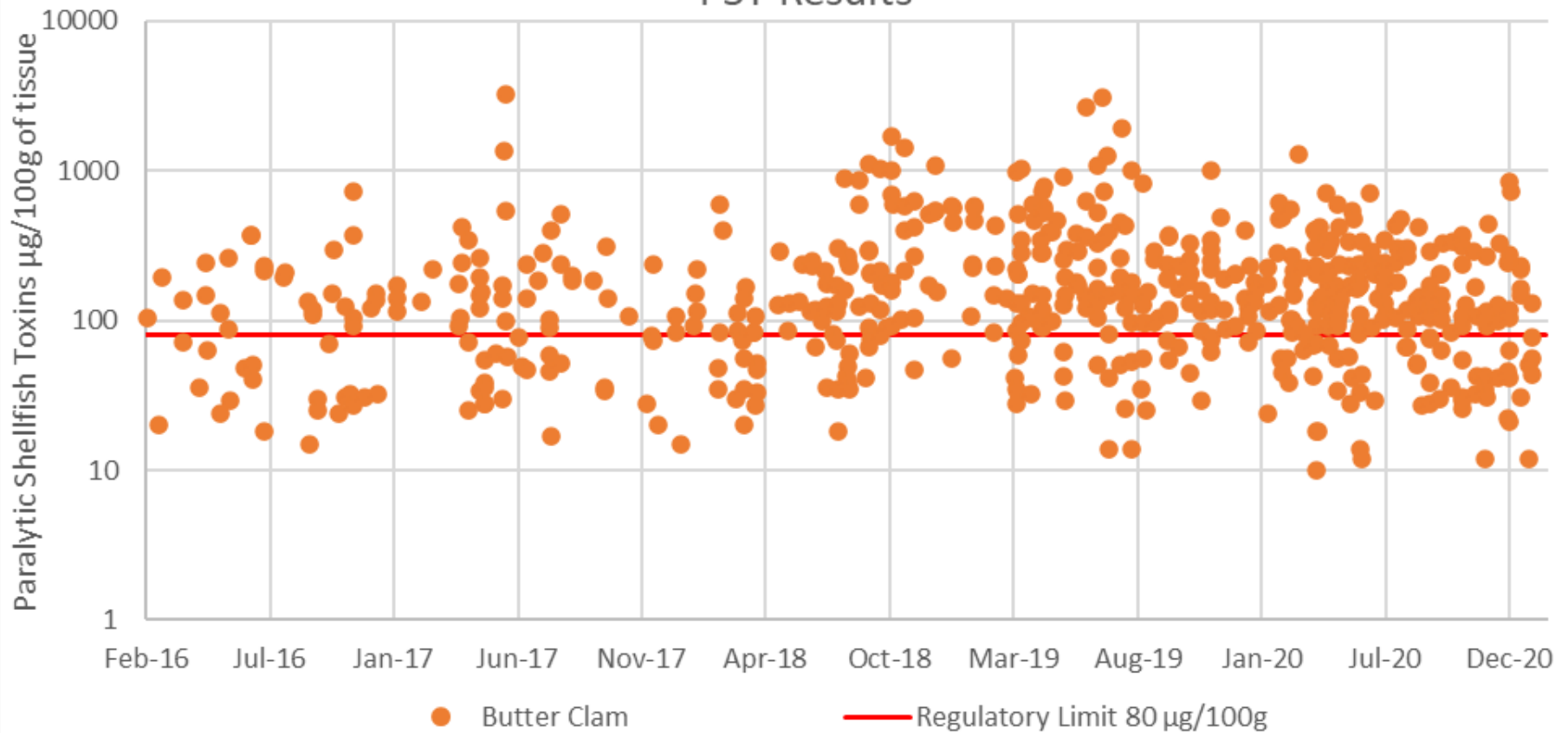
Regulatory limit = 80 µg/100 g





# Shellfish Testing Program

## 2016-2021 Butter Clam PST Results



# Communicating Results



# Community OA Sample Collection



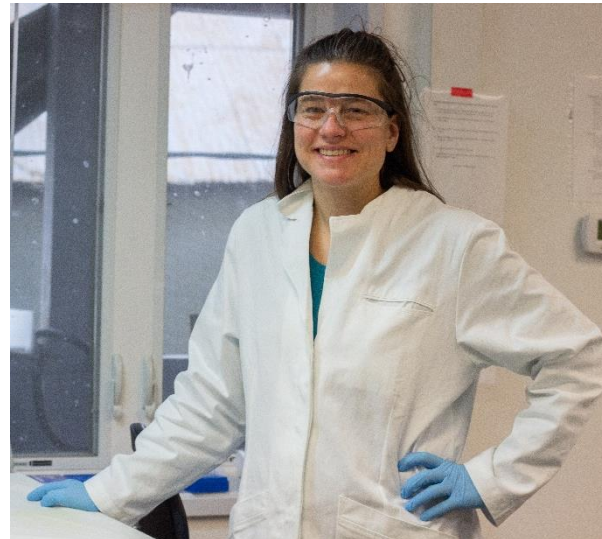
- Community samplers
- 8 communities regularly collecting weekly samples
- 1,000 collected , 500 analyzed



# Sitka Tribe of Alaska Environmental Research Lab



- Lab Analysis
- Coordination
- Supplies
- Trainings



# Thank You Partners!

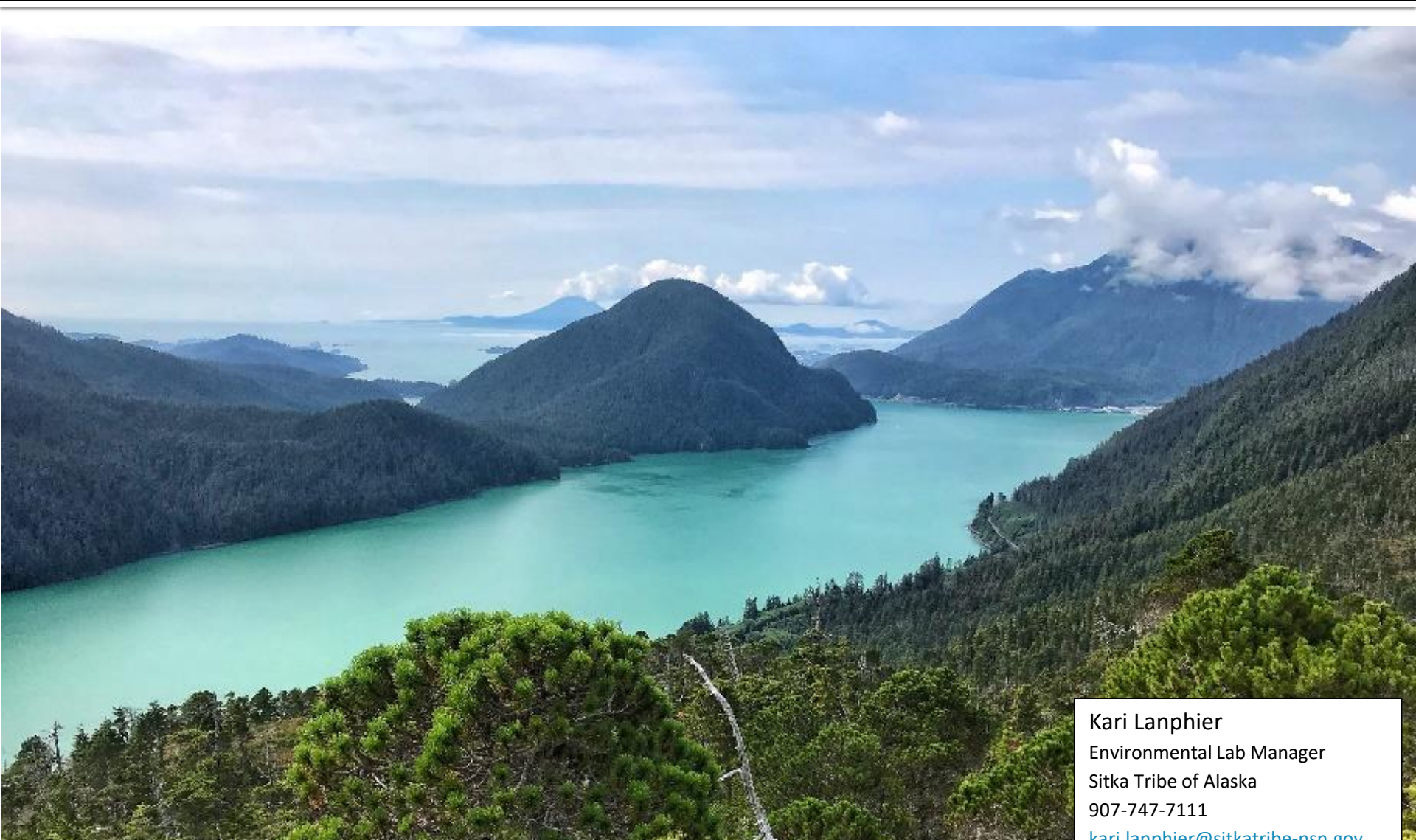


National Indian Health Board





Thank You!



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