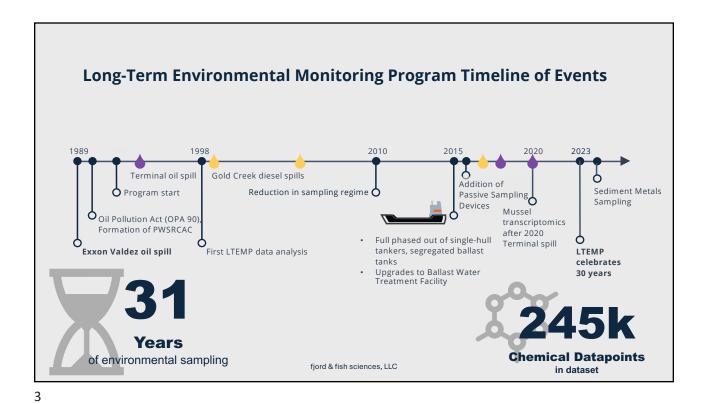


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i. Introduction to the 2024 Long-Term Environmental Monitoring Program (LTEMP)
ii. Methods
iii. Findings from 2024– 31 years!
iv. Pilot Study on Sediment Metals

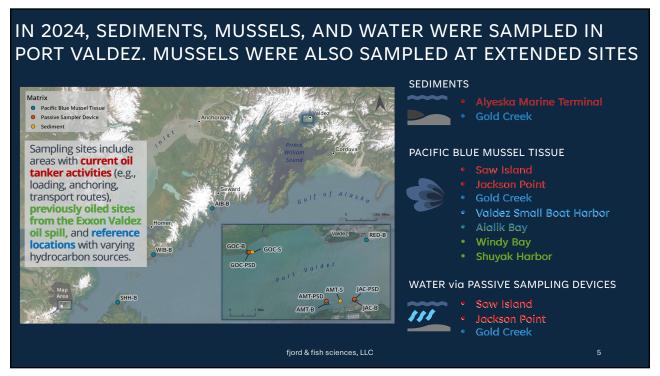


The 2024 LTEMP Campaign

• Fieldwork was carried out by PWSRCAC's Danielle Verna, Jeremy Robida, and contractor Morgan Bender in May/June 2024

• Chemical analysis was done by Alpha Analytics and by Oregon State University FSES laboratory

• Reporting was divided into a brief Summary Report and a Technical Supplement like in 2021 & 2023



Windy Bay

J. Robida cleaning PSDs

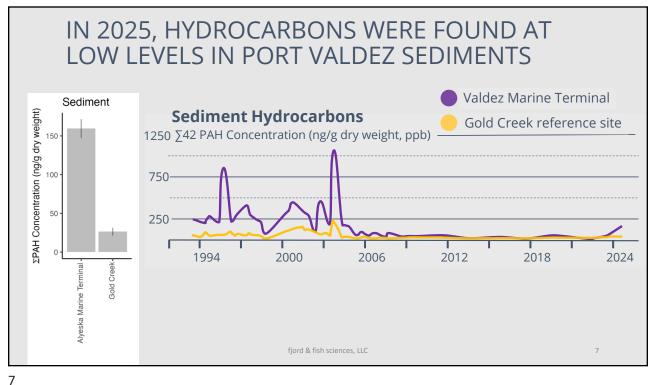
FV Equinox

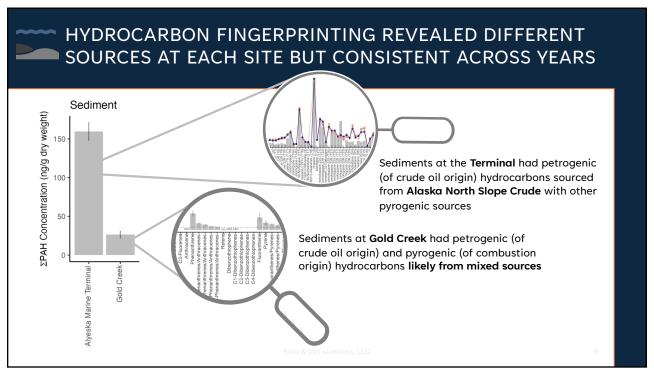
Sediment Sampling at Terminal

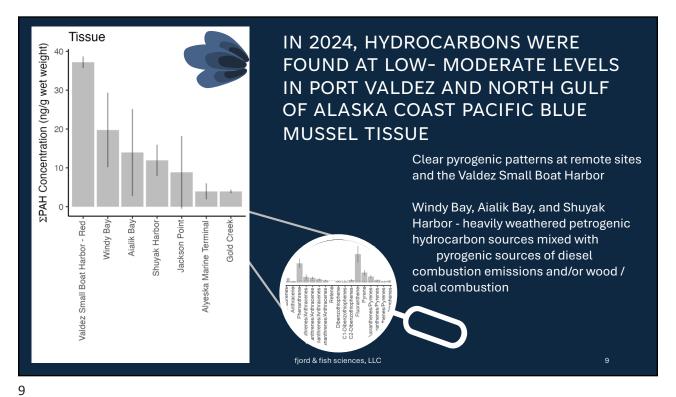
D. Verna preparing gear

Alalik Bay

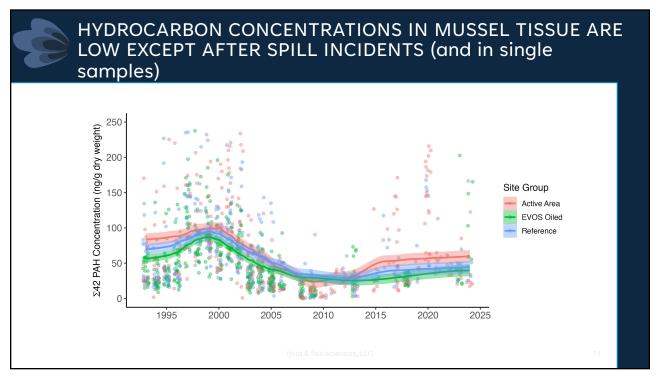
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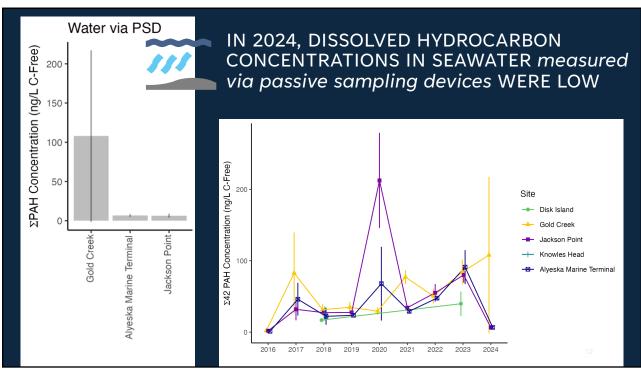


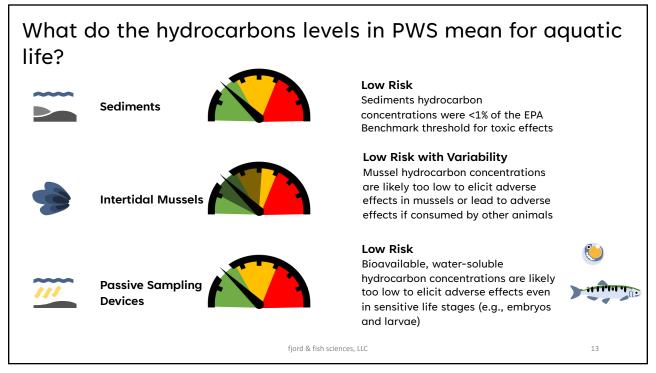


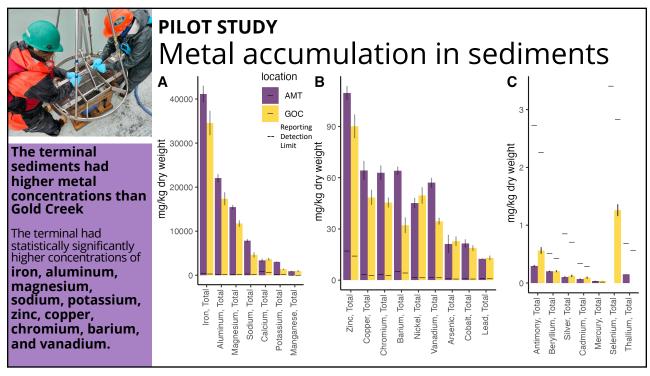


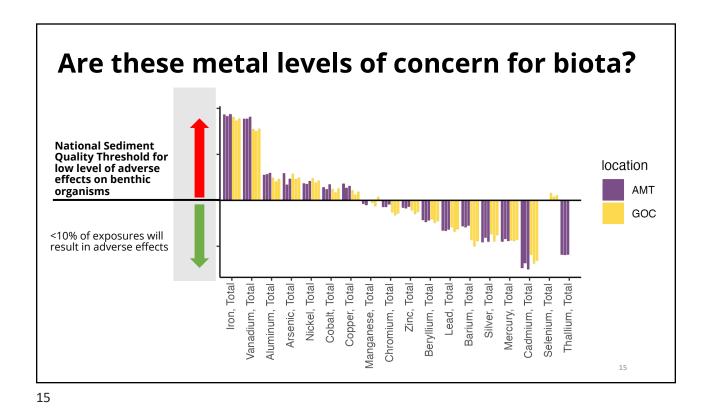












FUTURE PERSPECTIVES

- 1. Consider expanding sampling efforts
- 2. Increase project visibility
- a. Expand Dissemination
- b. Archive Data
- 3. Evaluate specific aspects of LTEMP
- a. Changes in intertidal community
- b. Metals accumulation in sediments



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THE 2024 LTEMP SUMMARY



I. The **hydrocarbon fingerprints** in the 2024 samples vary by site with those near the Alyeska Marine Terminal revealing **Alaska North Slope Crude Oil**. Other sites reveal **mixed sources**.



II. Low potential environmental and toxicological risk is posed by hydrocarbons contributed by the Terminal and tankers in 2024



III. Analysis of historical trends in hydrocarbon concentrations reveals generally low concentrations that spike locally after spill events.

iron, copper, and vanadium.

IV. A pilot study found metals accumulating in Port Valdez sediments.

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