



A2LA Lab Accreditation, ISO/IEC 17025:2017

OBJECTIVES AND PURPOSE OF THE PARTNERSHIP AGREEMENT



Established Radionuclide Monitoring Capability
in response to the Fukushima nuclear power plant accident



FDA loaned AK DEC a Canberra Gamma-ray Detection System
to test for radionuclides in Alaskan coastal water finfish



82 finfish samples were analyzed for radionuclides



Developed **Emergency Response Capability**



Increase **Public Confidence in Health and Safety** with consumption of **marine seafood**

GOALS



THIS PARTNERSHIP AGREEMENT enhances collaboration and avoids duplication of sampling efforts by state and federal agencies, thereby saving valuable resources



THE FDA GAMMA-RAY DETECTION SYSTEM ensures AK DEC the capability to increase public health/safety in the event of a similar crisis

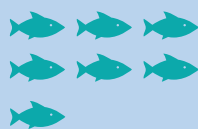
RESULTS/OUTCOMES

FINFISH SAMPLING

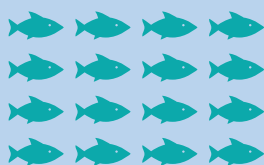
7 SAMPLES
FY 2019



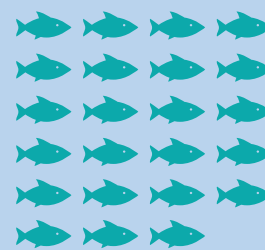
7 SAMPLES
FY 2020



16 SAMPLES
FY 2021



23 SAMPLES
FY 2022



82* TOTAL SAMPLES

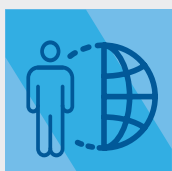
All were **Lab Class 1 for Gamma-ray emitting radionuclides** except for naturally occurring Potassium 40

NOTE: The effect of COVID-19 impacted the FY 2020/2021 Partnership Agreement sampling efforts. * Reported sample total (82 Samples) reflect total samples analyzed from FY 2017 - FY 2022.

AK DEC received an **Extramural Industry Grant (SEPTEMBER 2021)***



FDA LOANED GAMMA-RAY DETECTION MACHINE RESULTS:



Benefits Alaskan fishing companies to compete in a global market and address concerns of Alaskan resident and Native subsistence fisherman



Increases & maintains seafood-related employment & earnings



Develop a nutrient & contaminant database for different commercial fish species*

AK DEC Environmental Health Laboratory received in 2021 and has maintained **ISO 17025 accreditation** for CeBr3 gamma-ray analysis

*This grant was provided by the Alaska Seafood Marketing Institute (ASMI) which allowed for the development of a nutrient & contaminant database for commercial fish species.



PARTNERSHIP AGREEMENT SUPPORTING DOCUMENTATION

- 1- Partnership Agreement Memorandum of Understanding - MOU 225-20-007
- 2- AK DEC - Fukushima Radiation Concerns in Alaska