



Radionuclide Surveillance for Seafood

OBJECTIVES AND PURPOSE OF THE PARTNERSHIP AGREEMENT



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



FDA provided **AK DEC a Gamma-ray Detection System** to test for radionuclides in Alaskan coastal seafood



Analyze finfish samples for radionuclides



Developed **Emergency Response Capability**



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

GOALS



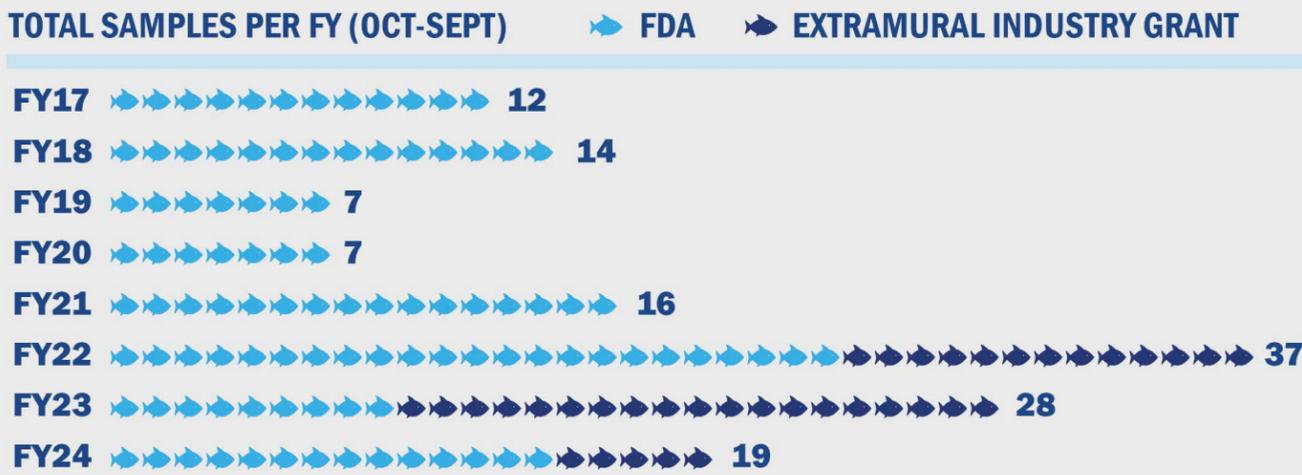
THIS PARTNERSHIP AGREEMENT enhances collaboration and avoids duplication of sampling efforts by state and federal agencies, thereby saving valuable resources



THE FDA GAMMA-RAY DETECTION SYSTEM helps ensure AK DEC will have the capability to protect public health/safety in the event of a similar crisis

RESULTS/OUTCOMES

FINFISH SAMPLING



140 TOTAL SAMPLES

Gamma-ray analysis of the samples was performed with no gamma-ray emitting radionuclides detected except for naturally occurring Potassium-40.

NOTE: The effect of COVID-19 impacted the FY19/20 sampling efforts. FY21 -FY24 Extramural Industry Grant public-private joint venture to develop nutrient and containment fish species.

AK DEC received an **Extramural Industry Grant (2021-2024)***



FDA PROVIDED GAMMA-RAY DETECTION MACHINE RESULTS:



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



Increases & maintains seafood-related employment & earnings



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

In **2021 AK DEC Environmental Health Laboratory** received and has since 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