



2. OLA I KE KAI O KANALOA Ocean Resources Management Program

June 2021 to November 2021

Grant Update & Review

NOAA PIRO Marine Educational Training (MET) Grant: *Marine Science Education and Training from a Hawaiian Perspective on Kaho'olawe: A Pilot Program for Maui Youth.*

- The Ocean Program was awarded a \$15K mini-grant from NOAA. The grant project focused on providing marine science students at high schools on Maui specialized curriculum with the help of the KIRC staff. The curriculum integrates Native Hawaiian knowledge and traditional practices with science-based approaches to marine resource conservation and management. All the project's obligations were fulfilled by the extended completion date of November 1, 2021. Through this grant a total of 24 marine science students and teachers from Maui High, Lahainaluna and King Kekaulike high schools were able to access Kaho'olawe to implement, experience and utilize cultural and scientific lessons learned in the classroom.

NOAA NFWF Nets to Energy Marine Debris Removal Grant: *Removal of Derelict Fishing Gear from Keoneuli Beach in Kanapou Bay on Kaho'olawe, Hawai'i.*

- This \$76K, 3-year (Sept. '19-Dec'22, including extension) grant project will remove a minimum of five tons of marine debris from Keoneuli during three accesses to the area. A unique aspect of this project is the attempt to divert all the debris from entering any landfill. Debris collected from Keoneuli will be either shipped to Oahu's H-Power (Covanta Energy) to be used as fuel to power local homes and businesses or the debris will be bundled and repurposed as sediment reduction material in the mauka areas on Kaho'olawe. The first Kanapou beach clean up event was conducted from Oct. 18th through Oct 21st. With the support of eight volunteers and three staff, approximately 6,000 to 8,000 pounds of plastic debris from Keoneuli Beach was collected, aggregated, sorted and prepped. During this upcoming year, there will be three more accesses to Keoneuli to: continue debris collection, conduct a UXO inspection of all debris that will be flown off Kaho'olawe to H-Power, consolidate all debris to be used for mauka restoration and coordinate helicopter operations for debris departure from the beach. Communication has also begun with Maui County Parks personnel to secure a location on Maui for helicopter operations.

Cooke Foundation Grant: *Engaging Hawai'i communities through Kaho'olawe culture, history and coastal restoration.*

- This one-year (Dec '20-Dec. '21) grant provides \$18K in supporting the mission of educating community members about the KIRC's vision and continuing coastal restoration in Honokanai'a and Honukanae. With this grant project, staff has created a baseline data set of the current and changing beach profile utilizing the Emery method in which measuring tools are lined up with fixed points in land and the horizon so a height measurement can be recorded consistently over time. Over this reporting period a total of 6,000 native plants (3,800 'aki'aki and 2,200 akulikuli) were planted and seven beach surveys were conducted by staff and volunteers.



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Through the NOAA PIRO Marine Educational Training (MET) Grant, high school marine science students from Maui had the opportunity to learn and implement field surveying techniques on Kaho 'olawe. Top Left: students conduct in water fish surveys in Honokanai'a. Top Right: Students collect data to monitor the effects coastal plantings can have upon the beach slope.



KIRC staff and volunteers collected approximately 8,000-6,000 pounds (3-4 tons) of marine debris from Keoneuli beach Oct. 18-21. The NOAA NFWF Nets to Energy Marine Debris Removal Grant will support 3 more trips and at least 2,000 more pounds of debris to be collected. A total of 5 tons will be flown off the beach and either utilized at 'Oahu's H-Power or dedicated to sediment/erosion control on Kaho'olawe.