Setting a Baseline Regarding Mangrove Removal at Kapapapuhi Point Park

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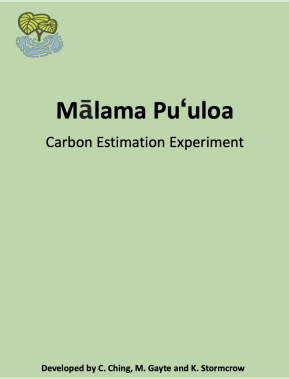
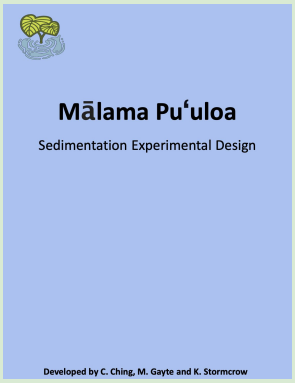
These 3 products were created to help Mālama Puʻuloa get a baseline of the impacts mangrove removal will have at Kapapapuhi Point Park regarding carbon sequestration/emission and sedimentation elevation, and to understand the methods other organizations are using regarding mangrove removal. The information gathered from these documents could be used to help educate the public on the outcomes of removing mangrove and what things need to be considered. We hope that the community can use our resources to improve restoration plans and mangrove management practices at Kapapapuhi Point Park to achieve their goal of restoring abundance to Pearl Harbor.

Carbon Estimation Experiment



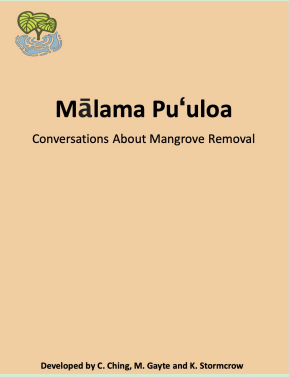
This document was developed to provide easy-to-follow methods on how we conducted a carbon estimation experiment at Kapapuhi Point park. This document includes background information on mangroves regarding carbon, the methods we used, estimated budgets, printable data sheets, and our results. From this experiment, we found removing mangrove at Kapapapuhi Point Park will release 134.49 MgC/ha. Removing all 21 acres of mangrove would release the carbon dioxide (CO_2) emissions equivalent of a week's worth of flights from Honolulu to Las Vegas on a 737 plane. It is intended that this document encourages community members to conduct more carbon estimation experiments throughout the park to get a more holistic understanding of the amount of carbon present.

Sedimentation Experimental Design



This document was developed to provide easy-to-follow methods on how to conduct a sedimentation experiment at Kapapapuhi Point park that will measure the sedimentation elevation after mangrove has been removed from a site. This document includes background information on mangroves regarding changes in sediment composition, 2 case studies that look at how sediment changed, easy-to-follow methods on how to conduct a sedimentation elevation experiment, an estimated budget, and printable data sheets. It is intended that these methods encourage community members to monitor sediment elevation levels to understand how the surrounding areas will be affected by mangrove removal.

Conversations About Mangrove Removal



This document was developed to provide a collection of information regarding the different ways mangrove has been removed in Hawaii from other organizations. Featured in this document are 3 different organizations and information regarding safety, methods for removal, and methods for disposal. It is intended that the information in this document encourage community members to make more informed decisions about how they want to remove mangrove from their sites.