

Department of Health Clean Water Branch Polluted Runoff Control Program

Quarterly Status Reporting Form
Clean Water Act 319(h) NPS Implementation Program

Quarterly Status Reports are required per contract terms. If no work was done during the reporting period, the CONTRACTOR must provide an explanation of the circumstances.

This Quarterly Status Report is for the period indicated below (**check only one and insert year**):

- ☐ January 1 – March 31, _____ (Due April 15th)
☐ April 1- June 30, _____ (Due July 15th)
☒ July 1 – September 30, 2021 (Due October 15th)
☐ October 1 – December 31, _____ (Due January 15th)

Project Title: He'eia Fishpond Mangrove Removal Project

Project Start/Completion Date: 3/31/2020- 3/30/2022

Estimated % of Project Completed: 20 %

Estimated % of Grant Funds Previously Requested: %

Quarterly Status Report Number: QSR 6

Name, telephone number, and e-mail of person to be contacted for questions regarding this report:

Maya Walton, 415-640-1262, waltonm@hawaii.edu

Or for budget related question please contact:

David Keola, 808-956-3010, dkeola@hawaii.edu

Please provide the following information for this reporting period. Additional sheets may be attached:

1. Progress/tasks started and/or completed as defined in the Contract's Scope of Services during **current** reporting period.

A. Summary of work completed (list all tasks and deliverables)

Task/Deliverable	Due Date	Date Task Completed/ Deliverable Submitted
Project PI, Co-Is, and project partners participated in bi-monthly check in meeting to report on progress and provide updates		7/20/2021, 9/21/2021
Continued water quality monitoring at sites adjacent to invasive vegetation removal		7/1/2021-9/30/2021

B. GRTS Load Reductions

Pollutant	Estimated Load Reduction
Nitrogen (lbs/yr)	0
Phosphorous (lbs/yr)	0
Sediment (tons/yr)	0

BMPs have not been installed so there are no estimates of load reduction.

C. Narrative Progress Report

1. Personnel

Table 1. He'eia Mangrove Removal Project Team members and contact information

Name	Organization/Affiliation	Email	Involvement
Maya Walton	Hawaii Sea Grant	waltonm@hawaii.edu	Principal Investigator
Dr. Rosie Alegado	UH Manoa Oceanography and Hawaii Sea Grant	ralegado@hawaii.edu	Co-Investigator
Katy Hintzen	Hawaii Sea Grant	hintzen@hawaii.edu	Sea Grant Project Manager
Keli'i Kotubetey	Paepae o He'eia	keli@paepaeoHe'eia.org	Fishpond Mangrove Removal Coordinator
Kapaliku Shirman	Hui Ku Maoli Ola	kapaliku@gmail.com	Contractor for Mangrove Removal and Native Plant supplier
Becca Lensing	UH Manoa	blensing@hawaii.edu	Graduate Student
Hoaka Thomas	UH Manoa	whthomas@hawaii.edu	Graduate Student

2. Description of any major issues/problems encountered and/or resolved that may affect the CONTRACTOR's ability to complete the project as required (i.e., weather, personnel, equipment, etc.). If there is a change in the project timeline or budget, provide an explanation, revised timeline, budget, and completion schedule. (Please note that no-cost extensions must be applied for through the Department, and will only be granted when the CONTRACTOR has demonstrated unforeseeable setbacks.)

DOH approved our No Cost Extension (NCE) Request. This 18 month NCE which changes our end date of the project from 03/30/2022 to 09/30/2023.

3. Description of any significant findings, results, or conclusions. If none, please indicate so.

During this quarter the project team continued work with the muching excavator. This was work that we initiated last year in October 2020. To date we have cleared in front of both storm drains 1 and 2 and all the way from the Paepae o He'eia entrance and parking lot to "caretakers road". We have cleared 3 acres of invasive vegetation with the muching excavator.



Figure 1: We measure the area cleared by the muching excavator as 3 acres.



Figure 2: This photo taken by a drone operated by Keli'i Kotubetey shows the invasive vegetation removed by the muching excavator.



Figure 3: With the invasive vegetation removed Paepae o He'eia stewards and students can now walk the full 1.3 miles around the fishpond.

While clearing the invasive vegetation in our project area we discovered that there are sections where the Hau grows on top of the mangrove. This was unexpected and may expand the amount of time we anticipated needing to clear the invasive mangrove that grows along the shoreline. This area is adjacent to the area recently cleared by the muching excavator. Some options we are exploring are combining the use of a machine chipper with hand clearing in the area with the mangrove. Since this section will take longer than expected we also anticipate that *Phase II: Hand removal of Hau* and *Phase III: Hand removal of partially submerged mangrove* will be more costly than we first anticipated. We are working on new estimates of our projected costs and will provide an update in the next quarterly report.

Our water quality monitoring team continued to collect water samples in the last quarter. We recently recived results back from the "S Lab" and should have preliminary results to share in the next quarter.

1. Based on the Scope of Services, a description of tasks expected to be completed in the next reporting period.

During the next reporting period (10/1/2021-11/30/2021) we expect to make more progress on hand removal of hau and mangrove if the weather permits.

Summary of expenditures and in-kind contributions previously requested in comparison with the Contract's project budget and remaining funds. The summary must be actual cumulative amounts for each line item (i.e., personnel services, travel, operating expenses, equipment acquisition, construction materials, other, etc.) current as of this quarterly status report. Please see the example on Page 4 if necessary.

Grant Funds

No.	Description	Original Contract Amount	Contract Amounts from Preceding QSR	Expenditures during this Quarterly Reporting Period	Current Contract Amount (Remaining Funds)
A	Personnel Services	\$48,851.56	\$19,762.90	\$3,882.26	\$25,206.40
B.	Travel	\$0	\$0	\$0	\$0
C.	Operating Expenses	\$0	\$0	\$0	\$0
D.	Equipment	\$0	\$0	\$0	\$0
E.	Professional Services	\$175,982.02	\$0	\$0	\$175,982.02
F.	Construction Materials and Supplies	\$20,336.00	\$7,129.80	\$40.51	\$13,165.69
G.	Other Misc. Expenses	\$61,292.40	\$6,723.57	\$980.74	\$53,588.09
TOTALS		\$306,461.98	\$33,616.27	\$4,903.51	\$267,942.20

In-Kind Contributions (Matching Funds)

No.	Description	Original Contribution Amounts	Contribution Amounts from Preceding QSR	Contributions during this Quarterly Reporting Period	Current Contribution Amount
A	Personnel Services	\$71,104.90	\$46,396.00	\$13,155.00	\$11,553.90
B.	Travel	\$0	\$0	\$0	\$0
C.	Operating Expenses	\$0	\$0	\$0	\$0
D.	Equipment	\$0	\$0	\$0	\$0
E.	Professional Services	\$0	\$0	\$0	\$0
F.	Construction Materials and Supplies	\$0	\$0	\$0	\$0
G.	Other Misc. Expenses	\$0	\$0	\$0	\$0
TOTALS		\$71,104.90	\$46,396.00	\$13,155.00	\$11,553.90