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January 15, 2016

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Dear Mr. Wong,

Frederick Lau

Enclosed please find the quarterly status report for O'ahu Resource Conservation & Development Council's project entitled "Ka'alaea and Waiahole Stream Restoration through Producer Implementation of Best Management Practices." This report covers activities completed between October 1, 2015 and December 31, 2015.

**EXECUTIVE
DIRECTOR**

Jean Brokish

The O'ahu RC&D appreciates the opportunity to work with the Department of Health and our partners to improve water quality in the Ka'alaea and Waiahole Watersheds.

If you have any questions or concerns, please don't hesitate to call.

Sincerely,

Jean Brokish
Executive Director

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):

<input type="checkbox"/> January 1 - March 31, ____	(Due April 15 th)
<input type="checkbox"/> April 1 - June 30, ____	(Due July 15 th)
<input type="checkbox"/> July 1 - September 30, ____	(Due October 15 th)
<input checked="" type="checkbox"/> October 1 - December 31, <u>2015</u>	(Due January 15 th)

Project Title: Ka‘alahea and Waiahole Stream Restoration through Producer
Implementation of Best Management Practices

Project Start/Completion Date: September 19, 2014 / September 18, 2017

Estimated % of Project Completed: 20 %

Estimated % of Grant Funds Previously Requested: 20 %

Quarterly Status Report Number: 5

Name, telephone number, and e-mail of person to be contacted for questions regarding this report:
Jean Brokish 808-622-9026 jean.brokish@oahurcd.org

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)**

See attached list of tasks and deliverables completed to date.

b) **GRTS Load Reductions -**

	Estimated Load Reduction
Nitrogen (lbs / yr)	None at this time.
Phosphorus (lbs / yr)	
Sediment (tons / yr)	

c) **Narrative Progress Report**

Conservation Practice Implementation –

Site visits continue on farms in the project area to identify conservation practice needs and promote the cost-share opportunity. Five site visits were conducted to new locations this quarter.

We held the second BMP cost-share application round, and received seven applications, requesting more than \$179,000 (compare to the total BMP award budget of \$90,000). After careful review of proposed practices and how they will contribute to improved water quality, five applications were selected for funding, obligating \$76,390. We are in the process of signing the agreements, and installations will begin in January 2016.

A recap of recent BMP applications and funding breakdown is provided with this report.

Conservation Plan Development and Review –

Each of the six BMP awardees (five new and one previously reported) will work with Oahu RC&D to develop a conservation plan for their property. A draft conservation plan has been presented to one cooperator, with plans to present it for Soil and Water Conservation District review in January. Remaining plans will be completed in February and March of 2016.

We have made no new progress in reaching the 14 cooperators / 4 approved conservation plans that were identified on record.

Community Outreach –

A workshop was held on Wednesday October 21 at KEY Project in Kahaluu. The workshop featured an overview of watershed health and BMPs, including a talk story session with farmers who participated in our Waimanalo Watershed Restoration project, which generated lots of great discussion!

Staff continue to network with the Waiahole-Waikane Community Association and the Windward Soil and Water Conservation District to inform these groups and their constituents about the project.

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.)**

None at this time.

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

We have established fixed photo points and a schedule to monitor progress on each of the six farms receiving cost-share.

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

Work with awardees to ensure timely installation of BMPs.

Develop conservation plans for BMP awardees, and present plans to SWCD for approval.

Draft first press release featuring farms receiving cost-share.

Plan second workshop – to focus on slope stabilization and tree establishment (agro-forestry), with plans to hold it in early April.

Complete	Task / Deliverable	Timeline	Due Date	Status / Date Task Completed / Deliverable Submitted
Note: Items in bold are newly completed.				
x	Begin contacting all fifty-six (56) farmers located in the Ka'alaea and Waiahole Watersheds to conduct site visits.	NTP		initial visits have begun
x	Begin developing the draft monitoring plan.	NTP		early work on draft plan is complete
x	Submit a list of name and credentials of personnel hired.	QSR No 1	DEC 14	Hired Bryan Buckingham as conservation specialist to work on project. Shelby Ishida will assist.
	Begin submitting conservation plan and Operation and Maintenance (O&M) adoption findings.	NTP +1	OCT 14	developed a monitoring form to assist with process.
	Draft and release the first of two press releases	NTP +1	OCT 14	no progress to date.
x	Establish pre-project photo-points	NTP +3	DEC 14	photos are taken during all farm visits
x	Submit the draft monitoring plan	NTP +3	DEC 14	submitted draft on 7.10.15
x	Establish the BMP investment funds	NTP +3	DEC 14	notified partners of this opportunity and began signing farms up for cost-share.
x	Submit the final monitoring plan	NTP +5	FEB 15	submitted final document on 9.4.15
x	Begin photo-point monitoring	NTP +5	FEB 15	photos are taken during all farm visits
x	Begin sediment monitoring	NTP +5	FEB 15	"before" conditions noted at BMP cost-share sites.
x	Begin nutrient monitoring	NTP +5	FEB 15	"before" conditions noted at BMP cost-share sites.
x	Begin submitting lists of participating farms with newly developed or updated conservation plans	NTP +5	FEB 15	QSR 9/30/15: new plan being developed for Keohukapu-Meria (3 acres); QSR 12/31/15: plans will be developed for new BMP awardees - Loui, Maii, Martin, McGinn, Swedberg.
	Begin submitting lists of farms with new conservation plans that have been approved.	NTP +5	FEB 15	
x	Begin submitting lists of planned BMPs	NTP +6	MAR 15	QSR 9/30/15: invasive brush removal and vegetative barriers. QSR 12/31/15: list of cost-share applications submitted; practices include invasive plant removal and establishment of soil-protecting vegetation (x2), sediment basin repair (x2), vegetative barrier (x3), cover crops (x3), mulch (x2), compost structure (x2).
x	Begin executing O&M agreements with farmers.	NTP +7	APR 15	O&M agreements developed concurrent w/ BMP cost-share agreement.
	Sponsor the first of two field days in the Ka'alaea Watershed.	NTP +9	JUN 15	Targeting April 2016 for workshop featuring slope stabilization and agroforestry
x	Begin funding and / or installing BMPs on farms	NTP +10	JUL 15	QSR 9/30/15: one agreement signed; QSR 12/31/15: five additional agreements signed.

Complete	Task / Deliverable	Timeline	Due Date	Status / Date Task Completed / Deliverable Submitted
Note: Items in bold are newly completed.				
	Begin submitting summaries of installed BMPs	NTP +10	JUL 15	
x	Sponsor the first of two field days in the Waiahole Watershed.	NTP +15	DEC 15	First field day held October 21 featuring basic watershed concepts and BMPs.
	Sponsor the second of two field days in the Ka'alaea Watershed.	NTP +21	JUN 16	
	Sponsor the second of two field days in the Waiahole Watershed.	NTP +24	SEP 16	
	Complete photo-point monitoring	NTP +34	JUL 17	
	Complete sediment monitoring	NTP +34	JUL 17	
	Complete nutrient monitoring	NTP +34	JUL 17	
	Submit the draft final report.	NTP +34	JUL 17	
	Draft and release the second of two press releases	NTP +35	AUG 17	
	Submit the final report.	NTP +36	SEP 17	



O'ahu Resource Conservation & Development Council

Overview of Proposed Projects

November 2015

	Applicant	Ask	Suggested Grant Amount	Match on funded BMPs	Conservation	Conservation Practices (BMPs): Funded / not funded
1	Maii	\$37,132	\$9,724	\$22,500	Property: 3 acres in Waiahole. Agricultural. Adjacent to Waianu stream. Issues: Runoff from road, erosion, flooding	1. Road repair 2. Remove invasive weeds and stabilize exposed soil (2ac) 3. Reshape 3 existing detention ponds as productive lo'i kalo or wetland taro 4. Complete conservation plan
2	McGinn	\$15,400	\$12,000	\$33,490	Property: 2.7 acres in Waiahole. Agricultural. Floodplain adjacent to Waiahole Stream. Issues: Erosion, invasives, flooding	1. Remove albizia canopy 2. Plant 300 feet of vetiver to reinforce streambank 3. Road repair 4. Develop a conservation plan
3	Loui	\$40,388	\$22,482	\$24,298	Property: 15 acres in Kaalaea. Open pastureland. Issues: Exposed soil, sediment runoff, unstable hills, invasives	1. Tree wind breaker 2. Cover crop 3. Drip irrigation (1/2) 4. Plant 1,400 linear feet of Vetiver 5. Mulch in critical areas 6. Repair access roads 7. Cover crop of sunn hemp and hydromulch for 3ac 8. Remove invasive dilenia 9. Create sediment basins 10. Other: Clear invasives, irrigate, fertilize
4	Martin	\$25,025	\$18,325	\$9,276	Property: 12.5 acres in Kaalaea. Open pastureland Issues: Exposed soil, open compost, sediment runoff, unstable hills, invasives	1. Cover crop 2. Plant 1,000 linear feet of Vetiver 3. Mulch in critical areas 4. Repair access roads 5. Hydromulch 50,000 feet 6. Remove invasive dilenia from other site 7. Conservation Plan 8. Build covered compost area
5	Swedberg	\$14,510	\$13,860	\$27,400	Property: 8.5 acres in Kaalaea. Agricultural. Adjacent to Kaalaea Stream Issues: Streambank erosion, bare soil, flooding	1. Write a Conservation Plan 2. Remove invasive canopy trees (approx. 500 ft along stream). 3. Install vetiver vegetative buffer to stabilize stream bank 4. Plant cover crop 5. Install drip irrigation system, using existing plumbing
6	Reppun	\$1,253	\$0	\$0	Property: 3.5 acres in Waiahole. Agricultural Issues: Runoff from road	1. Gravel driveway
7	Tom	\$45,630	\$0	\$0	Property: 16 acres in Waiahole. Agricultural. Floodplain adjacent to Waiahole Stream Issues: Streambank erosion, flooding, invasives	1. Remove invasive albizia canopy 2. Soil stabilization of 7,200 sq ft area under the albizia 3. Replant with multi-canopy plants and vetiver buffer
TOTAL			\$76,390	\$116,964		

Quarterly Status Reporting Form

ASO LOG NO. 15-027

10/1/15-12/31/15

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	\$59,056.20	\$28,236.28	\$3,468.78	\$24,767.50
B.	Travel	\$2,155.37	\$1,914.45	\$171.87	\$1,742.58
C.	Operating Expenses	\$4,500.00	\$3,616.00	\$649.24	\$2,966.76
D.	Equipment	\$0.00	\$0.00	\$0.00	\$0.00
E.	Professional Services	\$136,329.40	\$130,135.40	\$14,232.95	\$115,902.45
F.	Construction Materials and Supplies	\$0.00	\$0.00	\$0.00	\$0.00
G.	Other Misc. Expenses	\$96,750.00	\$94,958.62	\$700.00	\$94,258.62
	TOTAL	\$298,790.97	\$258,860.74	\$19,222.84	\$239,637.90

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	\$32,685.60	\$27,948.32	\$1,756.81	\$26,191.51
B.	Travel	\$2,200.00	\$2,200.00	\$230.81	\$1,969.19
C.	Operating Expenses	\$0.00	\$0.00	\$0.00	\$0.00
D.	Equipment	\$0.00	\$0.00	\$0.00	\$0.00
E.	Professional Services	\$14,032.80	\$12,891.80	\$1,389.50	\$11,502.30
F.	Construction Materials and Supplies	\$0.00	\$0.00	\$0.00	\$0.00
G.	Other Misc. Expenses	\$26,600.00	\$26,600.00	\$1,687.50	\$24,912.50
	TOTAL	\$75,518.40	\$69,640.12	\$5,064.62	\$64,575.50

* Amounts adjusted to include approved budget revisions