Hawaii State 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, 2015	(Due April 15 th)
☐ April 1- June 30	(Due July 15 th)
☐ July 1 – September 30	(Due October 15 th)
☐ October 1 – December 31	(Due January 15 th)

Project Title: West Maui Agricultural Erosion Control (ASO Log 14-143)

Project Start/Completion Date: July 2014 – July 2016

Estimated % of Project Completed: 20%

Estimated % of Grant Funds Previously Requested: 14%

Quarterly Status Report Number: 3

Name, telephone number, and e-mail of person to be contacted for questions regarding this report: Kristin Duin, 808-778-7364, kduin@srgii.com

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)

Project Timeline

Activity	Date	Date Completed
Personnel	1 st QSR	10/15/14
Inventory and Assessment Report		
Permits, Approvals, and Other Requirements		12/31/14
Inventory of Installation Locations		12/31/14
Load Generation and Reduction Estimates		12/31/14
Submit Draft Inventory and Assessment Report	NTP + 4	3/3/15
Submit Draft O&M Plan	NTP + 4	

Activity	Date	Date Completed
Meet with the State to discuss the Draft Inventory and Assessment Report	NTP + 4.5	Set for 4/7/15
Submit Final Inventory and Assessment Report	NTP + 5	
	Rev: 5/30/15	
Submit Final O&M Plan	NTP + 5	
Submit Draft Monitoring Plan	NTP + 5	
Host the first of two (2) Public Stakeholder Meetings	NTP + 5	3/30/15
Draft and release the first of two (2) press releases	NTP + 5	
Begin installation of agricultural management practices	NTP + 6	
Submit TMK numbers for all agricultural management practices	NTP + 6	
Submit photographs and detailed information for a representative subset of	NTP + 6	
agricultural management practices		
Submit the Final Monitoring Plan	NTP + 7.5	
Begin monitoring (photo point and sediment)	NTP + 7.5	
Submit updates to the final O&M Plan (if any)	NTP + 20	
Draft and release the second of two (2) press releases	NTP + 22	
Submit the draft Final Report	NTP + 22	
Host the second of two (2) Public Stakeholder Meetings	NTP + 23	
Submit the Final Report	NTP + 24	
Compile and submit all monitoring and survey data (Contract Termination)	NTP + 24	

B. GRTS Load Reductions

Load reductions based on relative load reductions for the various management measures to be installed were included in the Draft Inventory Assessment report. The estimates are provisional since the number of miles of road and acres of field treated may change. The treated areas will be a function of what the budget can support, and this will not be known until construction bids are submitted in Q2 2015. Final load reductions will be estimated based on post installation monitoring and the actual road lengths and area of treated lands. Details will be included in subsequent QSRs.

	Estimated Load Reduction
Nitrogen (lbs/yr)	2822
Phosphorus (lbs/yr)	333
Sediment (tons/yr)	3358

C. Narrative Progress Report

Personnel

Interviews have been conducted and will continue for hiring local (on Maui) personnel until a person with the desired experience and qualifications is identified. SRGII envisions that the local staff will assist SRGII with site layout, preparing materials and quantities estimates, and assisting in construction management.

Inventory and Assessment (I&A) Report

Inventory of Installation Locations: SRGII completed the office and field based inventory and assessment (I&A) of fields and roads in the project area to identify targeted locations for installation of management practices. The results were incorporated into an I&A Report that was submitted to DOH on March 3, 2015. The I&A was conducted on 103 miles of dirt roads and 3150 acres of fields. The difference between the proposed length of 170 miles of roads and 4250 acres of fields targeted for I&A in this project proposal was due to the non-participation by Kaanapali Land Management Company (KLMC). Though they did not grant right of entry to conduct I&A on their lands, all of their lands were included in the I&A using the most recent Google Earth image. In addition, their lands were inspected to a limited extent during the access across their property to other participating land owners' properties.

SRGII will be meeting with KLMC land managers during and after implementation of measures on other land owner's properties. It is our intention to convey to them that participating in the project not only helps reduce export of sediments, but also provides adjacent land owners with a net benefit. With this said, much of the KLMC lands are lower priority compared to the roads and fields on the participating land owners parcels. This is partly due to the fact that most of KLMC lands were under sugar cane cultivation, which did not have the drainage terraces associated with pineapple fields, and KLMC has numerous sediment basins to trap sediments. The exception to this are lands in the south end of the Wahikuli Watershed.

Load Generation and Reduction Estimates: SRGII used a combination of GIS analysis and models and the RUSLE model as the analytical approach to providing an estimate of the project area's existing sediment and chemical load generation. Estimates of nutrients will be generated after soil and water samples are collected and analyzed to determine their concentrations under the monitoring phase of the project. The results of soil loads have been incorporated into the I&A Report.

Operations and Maintenance Plan: Operations and Maintenance (O&M) plans will be developed upon completion of Phase 2 site layout. Site layout tasks will include identifying in the field and on maps the specific locations for installation and the material and quantities to be installed. O&M plans will be customized based on what is to be installed on each land owners parcels.

Installation of Agricultural Management Practices

SRGII conducted a multi-day field trip in late March 2015 to meet with landowners, ground truth several sites identified in the I&A, and collect field measurements for site layout and detailed designs. Meetings were held with Maui Land and Pineapple, General Finance Group, and Department of Hawaiian Home Lands land managers. Based on the results submitted in the I&A Report, SRGII reviewed information with each landowner including: the proposed agricultural management practices to be installed and their locations; maintenance requirements; proposed schedule; and logistics for installation (e.g. right-of-entries for SRGII and construction contractor; material staging). Field work involved final assessment of road and field conditions, refinement of targeted locations for management practices, and estimating types and quantities of materials. SRGII also met with potential construction contractors. Upon approval of the I&A Report by DOH, SRGII will begin ordering supplies and scheduling fieldwork.

Education and Outreach

Meetings with stakeholders are being considered as public meetings. SRGII is preparing project information to provide to the Watershed Coordinator for distribution and website posting.

2. Description of any major issues/problems encountered and/or resolved that may affect the Contractor's ability to complete the project as required.

Although the project timing has slipped a little bit, SRGII does not anticipate any issues with completing the project within the contract period.

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

Since the proposal stage of this project costs for various materials and supplies has increased. These cost increases will require SRGII to evaluate certain treatments, and may result in a slight decrease of treatable areas. Specifics will be determined during Phase 2.

KLMC has declined to participate in the project at this time. Much effort was made by the West Maui Watershed Coordinator and SRGII to secure their participation. SRGII will continue to dialogue with KMLC managers and has offered to show them sites on other properties after measures are installed.

Prior to this project SRGII was contracted by the West Maui Soil and Water Conservation District (who received funds from the Division of Aquatic Resources of the Department of Land and Natural Resources) to design road improvements on two roads in West Maui. The roads were located on GFG and DHHL lands. A goal of this project was to evaluate the installation of road improvements on the roads installed by two construction contractors. The project provided the opportunity to evaluate the two contractors and conduct a cost benefit analysis. It was learned that contractors will need to be provided detailed drawings and plans and be guided during installation by a construction manager. In addition, costs for implementing measures were approximately 45% higher per unit road length compared to estimates.

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

Personnel

SRGII expects to identify and secure services of local personnel to assist with this project. SRGII will secure a construction contractor.

Inventory and Assessment Report

SRGII will meet with DOH and finalize I&A Report based on DOH feedback.

O&M Plan

Based on project activities, it makes the most sense to provide O&M Plans to each landowner after completion of site layout and preparation of detailed road improvement plans. A general O&M Plan will be submitted upon completion of site layout.

Installation

SRGII will secure ROE from landowners for Phase 2: site layout and installation phase. SRGII will complete plans, specification, and estimates. Estimates of quantities of materials, supplies, and number of measures to install will be compiled into a bid package for distribution to three construction contractors. Installation will begin directly after selection of a Contractor. Construction is planned to start in early June.

Monitoring Plan

A Draft Monitoring Plan will be submitted for review.

Education and Outreach

A press release will be submitted to local outlets. Information about the project will be provided to the Watershed Coordinator for sharing on the West Maui R2R website.