

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 15<sup>th</sup>)  
☐ April 1- June 30, \_\_\_\_\_ (Due July 15<sup>th</sup>)  
☐ July 1 – September 30, \_\_\_\_\_ (Due October 15<sup>th</sup>)  
☒ October 1 – December 31, 2020 (Due January 15<sup>th</sup>)

Project Title: DOH 319 Polluted Runoff Control Project for West Maui (LOG NO. 17-195)

Project Start/Completion Date: January 30, 2018 – January 2021 (anticipated completion date)

Estimated % of Project Completed: 65 %

Estimated % of Grant Funds Previously Requested: 100 %

Quarterly Status Report Number: #12

Name, telephone number, and e-mail of person to be contacted for questions regarding this report: Katie Ersbak, (808) 587-4189, [katie.c.ersbak@hawaii.gov](mailto:katie.c.ersbak@hawaii.gov)

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)

**Below is a summary (and photos) of progress to date from October 1- December 31, 2020.**

**DOH Arboretum (Section #5)**

- ~600 meters of fence line was brushed along the Arboretum fence (Drops G-K & Roadside).
- ~450 meters of old fence has been taken down and removed (within Drops D-E & G-I).
- ~20 meters of fence has been started (along the roadside section),
- ~450 meters of new double-stacked (8' fence) has been constructed (within Drops D-E & G-I).
- ~450 meters of apron has been installed (within Drops D-E & G-I).
- ~250 meters of old fence has been flown out and removed (within Drops D-F).
- Established 2 internal and 1 external photo points

**DOH Kapunakea, Eucalyptus (Section #2)**

- 210 meters of fence line were brushed on the first and second ridges north of the road.
- 31 old pins were removed and replaced with 10' pins on the north ridge.

**DOH Honokahua (Section #4)**

- Established 2 internal and 2 external photo points in Honokahua valley.

**Table 1: DOH Meters Completed Report: Linear distance completed in terms of meter and percent of contracted work.**

Section #	Owner	Name	Location Description	% of project	Meters Contracted	Meters Completed 100% (not partial)	Percent completed
			Euc rd through Haenanui South				
2	TNC	Kapunakea North	Wall	10%	500	0	0
3	TNC	Kapunakea South	Kapu 3 Through Hanakao	11%	518	370	71%
4	PKW	Honokahua	South slope of Honokahua	7%	365	0	0%
5	PKW	Arboretum	North slope Honokahua to (Mango Spur) to Honolua	72%	3520	1820	52%
<b>Total</b>					<b>4903</b>	<b>2190</b>	<b>45%</b>



Figure 1: Need to adjust the fence line to avoid obstacles

- **October 6**

Fencing	DOH Arboretum: JC, MR, WC, MS & RC were joined by MFBRP Laura, Zach & Chris. They took down ~35m of fence, built 2 push braces, installed 11, 10' t-posts, 1 back brace and stretched ~35m of bottom and top 4' fence and installed the apron.
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- **October 7**

Fencing	DOH Arboretum: JC, KM, KA, MR, MS & RC were joined by MFBRP Laura and Zach. They took down ~65m of fence and pulled the pins, built 1 ½ A-frame braces, installed 19, 10' t-posts & 2 back braces. Then they pulled ~65m of bottom and top fence and installed the apron.
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- **October 8**

Fencing	DOH Eucalyptus: KM, MR, WC, MS & RC brushed ~150m and determined a Job Box drop location on the north ridge of the Eucalyptus section on Kapunakea.
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- **October 13**

Fencing	JC Worked on the DOH Quarterly Report.
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- **October 14**

Fencing	JC worked on the DOH and FAR quarterly reports, organized tools and gear in the Job Box to be flown into the DOH Eucalyptus fence line.
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- **October 15**

Fencing	DOH Eucalyptus: After loading up the Job Box with fencing tools onto the flat bed, JC & TF drove up and staged the Job Box and hiked into the north side of the Eucalyptus fence line to accept the Job Box. Then they bumped out ~150m of posts and pins before hiking out at the end of the day.
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Figure 2: Brushed Eucalyptus fence line.

- **October 20**

Fencing	DOH Arboretum: JC, JL, TF, MS, KM found kittens on the hike into the fence line. They were joined by MR, KA & WC and took down ~25m of fence. JC, JL & WC established a photo point and erosion bridge makai of the arboretum fence line, then they joined the rest of the crew (JL & MR hiked out with the kittens). They installed 1 A-frame and 1 in-line
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	corner, 9, 10' t-posts and 1 back brace the stretched 25m of bottom fence and installed the apron.
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- **October 21**

Fencing	DOH Arboretum: JC & MF hiked into the fence line and built 3 sling loads of old fence material to be flown out. Then they measured fence drops and corners and established a drop for the Job Box. Then attached fence rolls together and finished building 1 A-frame and 1 in-line corner.
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- **October 22**

Fencing	DOH Arboretum: JC hooked up the long line and accepted old fence material at the arboretum parking lot, then strapped it down before joining the rest of the crew. KM, RC & MS sent 2 loads of fence from the gulch to the parking lot, JL & MF sent out 1 load of old fence then bumped the Job Box. WC & TF accepted the Job Box and brushed the fence line south. WC & TF took the old fence to Hammer Head Recycling, the remaining crew installed 5, 10' t-posts and pulled ~25m of top and bottom fence, ~25m of top fence and apron.
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Figure #3:  
Stretching  
fence from  
across the  
drainage to  
the corner on  
the edge of  
the draining



- **October 28**

Fencing	DOH Arboretum: KA, WC, TF, VC, MF & MR bumped out material, took down ~50m of fence, installed ½ A-frame brace, 1 push brace, 14 10' t-
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	posts, 2 back braces and 1 2" pipe then stretched ~50m of bottom 4' fence and unrolled to top 4' fence. DOH Honokahua: After helping to bump out material JC & JL established 4 photo points (2 above & 2 below the proposed fence line) in Honokahua.
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- **October 29**

Fencing	DOH Arboretum: KM, VC, TF, MF, MR – pulled ~50m of top fence and installed ~50m of apron then they installed 10 10' t-posts & 1 back brace, brushing S to next drop, bumped t-posts along the line and closed the gap in between the old and new fences at stream curtain. DOH Arboretum: After dropping off the post pounders and pipe cap material to Jesse for welding JC counted the corners along the Arboretum fence line from parking lot to where the fence is going into Honolua for material need.
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- **November 2**

Fencing	DOH Arboretum: JC, TF & MF. TF & MF installed deadmen before helping JC install the conveyor belt on the stream curtain. After TF & MF left for their GIS class JC continued to improve the stream curtain, then picked up new pounding caps from Jesse.
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Figure #4  
Stream curtain  
made of conveyor  
belt material in the  
stream corridor.



- **November 4**

Fencing	DOH Arboretum: MR & KA continued brushed the fence line south.
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- **November 5**

Fencing	DOH Arboretum: JC, MR, MS & MF took down the old fence, built a push brace and stretched 35m of bottom fence. Then they took down 45m of fence installed half and A-frame brace, 13 10' t-pins, 1 2" pipe, and 2 back braces and stretched the bottom 45m of fence.
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- **November 9**

Fencing	JC DOH material needs assessment.
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- **November 10**

Fencing	DOH Arboretum: JC, KM, KA, MR, WC, MS, RC, TF, MF & JL ½ Day. Pulled ~80m of top 4' and installed apron. Then they took down ~80m of fence, then installed ½ an A-frame brace, 2 push braces, 24 10' t-posts, 3 back braces, pulled ~80m of bottom fence and ~35 of top fence and apron.
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Figure #5: Full crew working to double stake the fence.  
Figure #6: Completed 8' double staked fence line.

- **November 11 Veteran's Day**

Fencing	DOH Arboretum: KM, KA, MS, VC & TF Took down ~30m of fence. Installed 1 in-line corner at the gate, 10, 10' t-posts & 1 back braces, then pulled ~30m of bottom fence, as well as ~45m of top fence and apron from the previous day.
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- **November 17**

Fencing	DOH Arboretum: JC & JL scouted the fence line from the road side into Honolua. Took points and pictures to determine material needs for retrofit and rebuild.
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- **November 19**

Fencing	DOH Arboretum: KM, WC, TF, MF & JC ½ day: Took down ~30m of fence. Installed 1 in-line corner at the gate, 1 push brace, 12, 10' t-posts & 1 back braces, then pulled ~30m of bottom fence.
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- **November 23**

Fencing	DOH Arboretum: KM, MR, WC, MS & VC clearing fallen branches/dead trees stems off the fence line. Pulled ~60m of top 4' and installed the apron.
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- **November 24**

Fencing	Arboretum, building fence with JL, DT, WC, MS & VC after cutting three trees that had fallen on the fence, they completely finishing the last ~30 stretch to connect both new fence sections, they installed 10 t-posts, 1 back brace, 1 in-line brace, ~30m of bottom & top fence & apron.
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- **November 25**

Fencing	DOH Arboretum: MR & RC gathering old fence material along the recently construction section to be flown out and continuing brushing the fence line south along the next section to be constructed. DOH Arboretum: KM, WC & MS hiked in chainsaws to remove a large Cinnamomum that had fallen on the fence. DOH Eucalyptus: KA, TF, & MF installed a ladder in the bottom of the first gulch north of the road for safety, then they hiked in a chainsaw to finish brushing the large trees off of the fence line on the north ridge.
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- **December 1**

Fencing	DOH Eucalyptus: KM, MS, RC & TF Pulled 25 old rusted posts out and installed 25, 10' t-posts along the fence line on the northern ridge.
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- **December 3**

Fencing	DOH Arboretum: MR & WC brushed all trees along drops J & K, from the upcoming job box location to next drop South (need weed whacker), MR started north and worked south, WC started at South end of drop K and worked North.
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- **December 9**

Fencing	DOH Arboretum: WC cut replacement corner pipes to be flown into the Arboretum fence line.
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- **December 10**

Fencing	DOH Eucalyptus: JL, KM, MR & TF Pounded 9 10' t-posts & 7 back braces on North ridge then brushed ~50m of middle ridge. DOH Arboretum: WC, MS & TF brushed ~80m of fence line from the Arboretum parking lot makai along the road. Using chainsaw they removed a lot of large trees.
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- **December 15**

Fencing	DOH Arboretum: DT, KM, & RC brushed ~30m of thick trees along the road side fence line.
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Figure #7 The fence takes a lot of effort to brush because it is overgrown with X-mas Berry.  
Figure #8 The old t-posts are so rusted that the trees are the only thing holding up the fence.

- **December 16**

Fencing	DOH Arboretum: JC met the crew at the road side section of the arboretum to scout the fence build, then returned to the base yard to compile a material list. DT, KM & WC remained on the fence line and continued brushing the road side fence.
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- **December 17**

Fencing	DOH Arboretum: KM, WC & RC decontaminated fence material for the first 100m of road side fence build.
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- **December 21**

Fencing	DOH: JC organized a PO for the purchase of more corner pipe material then started compiling the information for the DOH fence reports for the FAR, DOH and PKW reports. DOH Arboretum: KB, KM, MR, WC & RC cutting and decontaminated pipes at the base yard before distributed the material at DOH fence line. Then decontaminated the remainder of the material at the Ball Park LZ and delivered it to the Arboretum fence line. In total they decontaminated ~200m of fence material (7 big, 9 medium, 9 short, 40 t-posts, 200 m worth of fence rolls (top, bottom, apron)).
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- **December 22**

Fencing	DOH: JC continued to compile DOH fencing information for the FAR, DOH & PKW reports.
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- **December 23**

Fencing	DOH Arboretum: MR, KA, WC & VC starting construction of the road side fence. They took down ~20m of old fence, removing barbed wire and old t-posts, construction of first two inline brace corners, pounded 5 10' t-posts & stretching ~20m of bottom fence. KB herbicide the DOH fence material at the Ballpark
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- **December 28**

Fencing	DOH Arboretum: KM & RC established 2 internal photo points along the arboretum fence line.
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- **December 29**

Fencing	DOH Arboretum: JC went up to the Arboretum fence line to see the progress that the crew had made and look at what the next steps of the build would be.
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- **December 30**

Fencing	DOH Arboretum: KM, WC & RC continued to brush trees along the roadside fence line to straighten the line and reduce corners.
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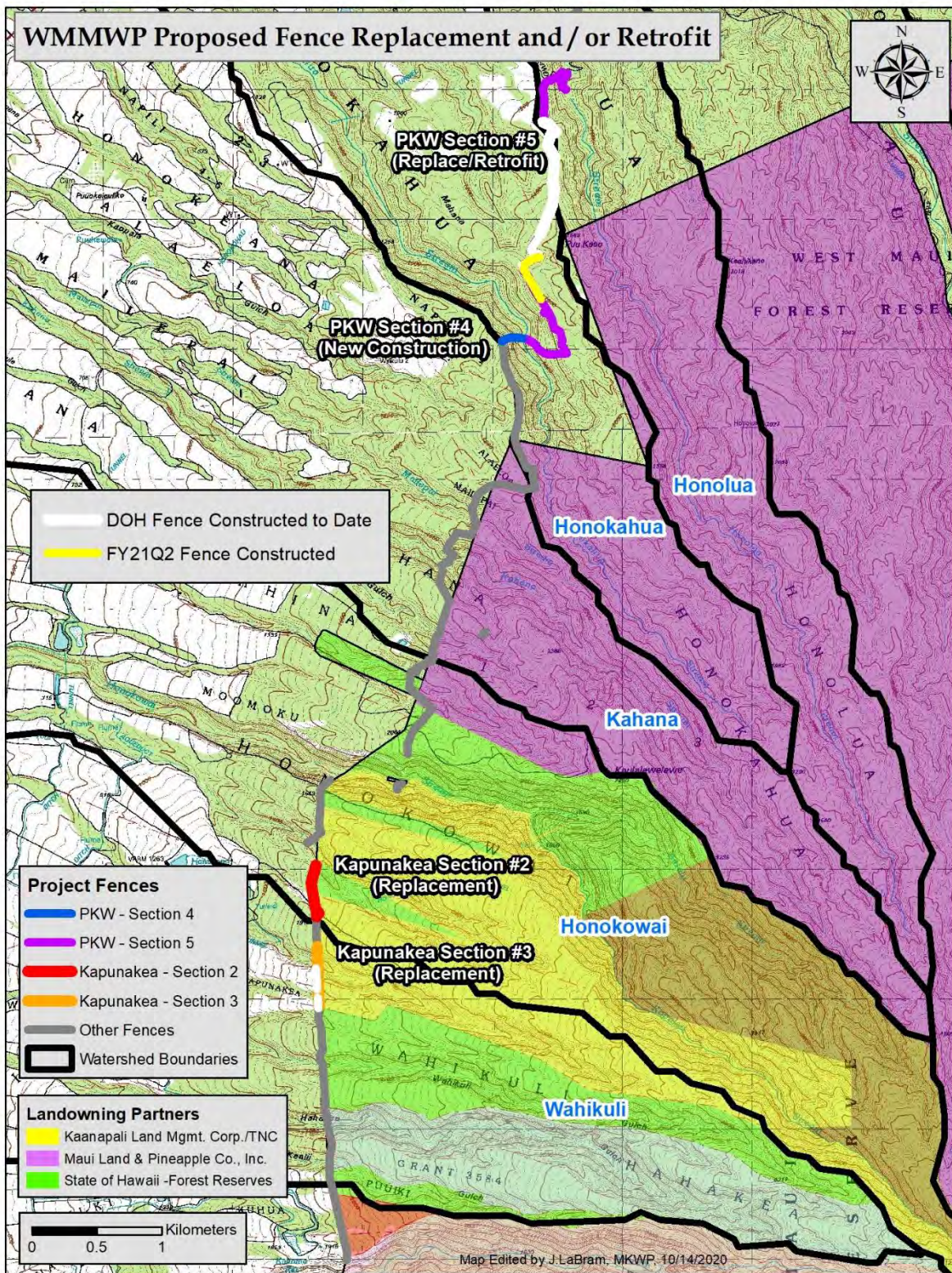


Figure #9: After clearing the roadside fence line, temporary pins were installed to hold up the existing fence

- **December 31**

Fencing	DOH Arboretum: KM, WC & RC continued to brush the roadside fence line to straighten the line to reduce corners.
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B. GRTS Load Reductions

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

C. Narrative Progress Report

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.)
  - 1) **The COVID-19 pandemic has impacted field operations, leading to delays. A NCE was approved by DOH, extending the contract to January 29, 2022.**
  - 2) **Helicopter operations have been disrupted due to the loss of an OAS certified helicopter.**
  - 3) **DOFAW submitted the final Bill for Collection #4 (Bill No. DOFAW 21-05) for \$124,070.05. As of January 2021, the full contract amount has been transferred to DLNR-DOFAW.**
3. Description of any significant findings, results, or conclusions. If none, please indicate so.

**N/A**
4. Based on the Scope of Services, a description of tasks expected to be completed in the next reporting period.
  - 1) **Continue photo/vegetation plots at remaining monitoring sites and begin pre-fence monitoring per Final Monitoring Plan.**
  - 2) **Continue installation of fence at Puu Kukui Watershed Preserve (Arboretum section #5) and in Kapunakea (Eucalyptus section #2**

