

## **FYI**

### **February 2022**

#### **Correspondence**

1. **Memo to Alec Wong, Department of Health, from Michael Nāho‘opi‘i, regarding Hakioawa Operations and Maintenance Plan 2021 ASO LOG No. 21-049 billing dated January 20, 2022.**
2. **Memo to Alan Downer, PhD, SPHP Administrator, from Michael Nāho‘opi‘i regarding SHPD Review and Concurrence on KIRC Restoration Project Restoring Coastal Wetlands on Kaho‘olawe Island, Hawai‘i dated February 8, 2021.**

#### **Legislative Testimony**

1. **Testimony of, Michael Nāho‘opi‘i , Executive Director, Before the House Committee on Water & Land, Thursday, February 3, 2022, In consideration of House Bill 1577 Relating to the Kaho‘olawe Island Reserve Commission.**
2. **Testimony of, Michael Nāho‘opi‘i, Executive Director, Before the Senate Committees on Water & Land and Hawaiian Affairs, Tuesday, February 15, 2022, In consideration of Senate Bill 3013 Relating to the Kaho‘olawe Island Reserve Commission.**



*KŪKULU KE EA A KANALOA*  
**KAHO'OLAWE ISLAND RESERVE COMMISSION**

811 Kolu Street, Suite 201, Wailuku, HI 96793  
Telephone (808) 243-5020 Fax (808) 243-5885  
Website: <http://kahoolawe.hawaii.gov>

**Testimony of  
MICHAEL K. NĀHO'OPT'I  
Executive Director**

**Before the House Committee on**

**WATER & LAND**

**Thursday, February 3, 2022  
9:30 AM  
State Capitol, Conference Room 430**

**In consideration of  
HOUSE BILL 1577  
RELATING TO THE KAHO'OLAWE ISLAND RESERVE COMMISSION**

House Bill 1577 appropriates funds for the Kaho'olawe Island Reserve Commission and to fund two full-time equivalent positions for the Kaho'olawe Island Reserve Commission. The Kaho'olawe Island Reserve Commission (KIRC) strongly supports this measure.

In Act 340, the creation of the KIRC and Hawaii Revised Statute Chapter 6K in 1993, the legislature found that “the extensive erosion and other ecological problems, presence of unexploded ordnance, archaeological sites and native and endangered flora and fauna that a management regime was needed to meet the challenges of restoring and presenting the island”.

Since the end of the Navy's unexploded ordnance cleanup in 2004, the KIRC has begun a race against time to stem erosion and further degradation of the Kaho'olawe Island Reserve. The KIRC has since initiated numerous restoration projects, financed by state funds and various grant opportunities, that has made significant changes to transforming the desolate hardpan into vibrant living landscapes.

The KIRC first began receiving state general funds in the administration's budget in the fiscal year 2018-2019 biennium budget. The initial funding supported 15 FTE staff and operating funds for our Maui office and Kihei Boathouse. In fiscal years 2019 and 2020, the KIRC Cultural Resource Project Coordinator position was restored and \$100,000 in operating funds were added but subsequently were eliminated due to the impact of COVID on the State's economy in fiscal years 2021 and 2022. The KIRC is requesting additional operating funds and personnel to support our efforts to restore the island, protect endangered and rare flora and fauna and ensure the safety of visitors to Kaho'olawe.

The key to the KIRC's restoration efforts is the volunteer workforce that we bring to Kaho'olawe to help with native out plantings, erosion control construction and invasive weed eradication.

The additional funds will finance key support services such as operating the Kaho`olawe base camp facilities, generating power and water, and maintaining vital infrastructure, equipment and vehicles. The additional funds will also support critical safety systems such as medical supplies, safety equipment and emergency transportation.

The additional KIRC positions are critically vital as the KIRC has observed a recent increase in unpredictability and severity of weather and ocean conditions in the waters surrounding Maui and Kaho`olawe most likely due to climate change and global warming, which has resulted in an increased need for additional manpower to safely and effectively operate the KIRC ocean vessel. Additionally, our Kaho`olawe field teams also need additional field support as we have been successful in expanding our restoration efforts to create more native dryland forest habitats, expand beach restoration and shoreline protection efforts, cultivate food sustainability and increase on-island water generation, collection, storage and distribution systems.



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**Testimony of  
MICHAEL K. NĀHO'OPTI  
Executive Director**

**Before the Senate Committees on**

**WATER AND LAND  
and  
HAWAIIAN AFFAIRS**

**Tuesday, February 15, 2022  
1:00 PM**

**State Capitol, Conference Room 016**

**In consideration of  
SENATE BILL 3013  
RELATING TO THE KAHO'OLAWÉ ISLAND RESERVE COMMISSION**

Senate Bill 3013 appropriates funds for the Kaho'olawe Island Reserve Commission and to fund two full-time equivalent positions for the Kaho'olawe Island Reserve Commission. The Kaho'olawe Island Reserve Commission (KIRC) strongly supports this measure.

In Act 340, the creation of the KIRC and Hawaii Revised Statute Chapter 6K in 1993, the legislature found that “the extensive erosion and other ecological problems, presence of unexploded ordnance, archaeological sites and native and endangered flora and fauna that a management regime was needed to meet the challenges of restoring and presenting the island”.

Since the end of the Navy's unexploded ordnance cleanup in 2004, the KIRC has begun a race against time to stem erosion and further degradation of the Kaho'olawe Island Reserve. The KIRC has since initiated numerous restoration projects that has made significant changes to transforming the desolate landscape into vibrant living landscapes. These projects and all KIRC operations and staffing were initially financed from a federally funded trust fund and various grant opportunities, and recently with State funds.

The KIRC first began receiving state general funds in the administration's 2018-2019 biennium budget. The initial funding supported 15 FTE staff and operating funds for our Maui office and Kihei Boathouse. In fiscal years 2019 and 2020, the KIRC Cultural Resource Project Coordinator position was restored and \$100,000 in operating funds were added, but subsequently were eliminated due to the impact of COVID on the State's economy in fiscal years 2021 and 2022. The KIRC is requesting additional operating funds and personnel to support our efforts to restore the island, protect endangered and rare flora and fauna and ensure the safety of visitors to Kaho'olawe.

The key to the KIRC's restoration efforts is the volunteer workforce that we bring to Kaho`olawe to help with native out plantings, erosion control construction and invasive weed eradication. The additional funds will finance key support services such as operating the Kaho`olawe base camp facilities, generating power and water, and maintaining vital infrastructure, equipment and vehicles. The additional funds will also support critical safety systems such as medical supplies, safety equipment and emergency transportation.

The additional KIRC positions are critically vital as the KIRC has observed a recent increase in unpredictability and severity of weather and ocean conditions in the waters surrounding Maui and Kaho`olawe most likely due to climate change and global warming, which has resulted in an increased need for additional manpower to safely and effectively operate the KIRC ocean vessel. Additionally, our Kaho`olawe field teams also need additional field support as we have been successful in expanding our restoration efforts to create more native dryland forest habitats, expand beach restoration and shoreline protection efforts, cultivate food sustainability and increase on-island water generation, collection, storage and distribution systems.



## PROTECT KAHO'OLAWE 'OHANA

Post Huaka'i Report for

December 29, 2021

<b>HUAKA'I SUMMARY</b>					
<b>Date of Report:</b>	01/19/22	<b>Dates of Huaka'i:</b>	December 29, 2022		
<b>Name of Submitter:</b>	Davianna McGregor	<b>Phone:</b>	808-222-9728		
<b>Location:</b> Hakioawa					
<b>Final # of Participants:</b>	2				
<b>Participant Groups:</b>	Protect Kaho'olawe 'Ohana - Hō'ola 'Āina				
<b>STATUS ON STEWARDSHIP PROJECTS (Initiate, Continue, Status, Complete, etc.)</b>					
<b>Place - Description of Work Project</b>	<b>AUG 12-13, 2021</b>	<b>Aug 20-21, 2021</b>	<b>Sept 23-26 2021</b>	<b>Dec 29, 2021</b>	
Ka 'Ai A Kanaloa - Marine Debris Clean-up	yes	No	Yes	No	
Ka 'Ai A Kanaloa - Marine Monitoring	YES	No	Yes	Yes	
Archaeological/Culture Site Monitoring and Management	NO	No	Yes	No	
Practice of Hawaiian Arts and Science: Kūkulu Ke Ea A Kanaloa Culture Plan	YES	Yes	Yes	No	
Ala Loa	NO	No	No	NO	
Trail Stabilization	NO	No	No	No	
Maintenance of Hakioawa Facilities & Infrastructure	YES	Yes	Yes	Yes	
Kilohoku and Kilo Pae Honua	YES	Yes	Yes	NO	
Native plant restoration	NO	Yes	Yes	Yes	
<b>Project:</b> Ka 'Ai A Kanaloa - Marine Monitoring	<b>STATUS:</b> Ocean clear. Beach plenty of sand, not too much 'opala. Looks like the streams were flowing but not raging. Overall Hakioawa looking good.				
<b>PROJECT:</b> Maintenance of Hakioawa Facilities & Infrastructure	Checked the new liner cover for the Wailuna Tank that was installed in November to be sure it was functional. Wailuna water tank was filled up to three feet from the top. Nevertheless, need a bigger cover. Drip system functioning well.				
<b>Project:</b> Native plant restoration	Plantings looking great! A lot of new natives poppint out. Photos of plantings are below.				
<b>HEALTH &amp; SAFETY:</b> Describe briefly and attach Incident Report, if applicable. NONE					
No incidents					
<b>UXO Encountered:</b> NONE					
<b>CONDITIONS:</b>					
<b>Ocean:</b> Calm Weather and seas; <b>Weather:</b> calm <b>Trails</b> - only hiked up to Wailuna, trails are clear					



## PROTECT KAHO'OLAWE 'OHANA

Post Huaka'i Report for  
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<b>First Aid</b> - no report	
<b>VECTOR CONTROL</b>	
<b>NOTES:</b>	Mahalo KIRC for support

LUA	Panel Clear of Debris?	Light Working?	Fan Working?	Lock Working?	Chip Supply (50# Bag)	Notes
#1 Lāna'i Side - Mauka	No Report					
#2 Lāna'i Side - Makai	No Report					
#3 Hawai'i Island Side - Right	No Report					
#4 Hawai'i Island Side - Left	No Report					

<b>FINAL ITINERARY</b>	
<b>DAY/DATE</b>	<b>LOCATION &amp; ACTIVITY</b>
DAY 1 December 29	2 participants landed via Pualeleiki at 6:00am. Participants inspected the plantings in Hakiowa and the drip system from the Hakiowa valley floor up to Wailuna. Participants inspected the Wailuna liner cover. Participants were picked up at 9:30am by Pualeleiki and returned to Kīhei. Photos of plantings are below.



**PROTECT KAHO'OLAWE 'OHANA**  
 Post Huaka'i Report for  
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**FINAL PARTICIPANT LIST**

PARTICIPANT LIST for December 29, 2021											
	LAST NAME	FIRST NAME (Nickname)	AGE	CHAPERONE/ Kāko'o Assignee	GROUP	Participant Safety Identification					NOTES
						KUA	Access Guide	Water Safety	First Responder	First Aid / CPR	
1	Aiwohi	Lopaka	A		PKO	X		X			
2	Palomino	Anna	A		PKO						

Volunteer Vessel, Captain and Crew List					
		Vessel Name	Crew LAST NAME	Crew FIRST NAME	Age
	1.	Pualeleiki	Luuwai	Kauhane	A
	2.	Pualeleiki	Luuwai	Hiilei	A





PROTECT KAHO'OLAWE 'OHANA  
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December 29, 2021





**PROTECT KAHO‘OLAWE ‘OHANA**  
 Post Huaka‘i Report for  
 ‘Ianuāli 14 – 17, 2022

<b>HUAKA‘I SUMMARY</b>			
<b>Date of Report:</b>	1/17/2022	<b>Dates of Huaka‘i:</b>	‘Ianuāli 14 – 17, 2022
<b>Name of Submitter:</b>	Momi Wheeler	<b>Phone:</b>	(808) 430-2557
<b>Location:</b>	Hakioawa, Hakioawa Iki, Wailuna, Pu‘u Moa‘ula Iki, Lelehune, Pu‘u Moa‘ula Nui, Honokanai‘a, Kealaikahiki		
<b>Final # of Participants:</b>	7		
<b>Participant Groups:</b>	Protect Kaho‘olawe ‘Ohana (PKO)		
<b>STATUS ON STEWARDSHIP PROJECTS (Initiate, Continue, Status, Complete, etc.)</b>			
<b>Place – Description of Work Project</b>	<b>Sept. 23-26, 2021</b>	<b>Nov. 17-21, 2021</b>	<b>Jan. 14 - 17, 2022</b>
Ka ‘Ai A Kanaloa – Marine Debris Clean-up	X		X
Ka ‘Ai A Kanaloa – Marine Monitoring	X	X	X
Archaeological/Culture Site Monitoring and Management	X		X
Practice of Hawaiian Arts and Science: Kūkulu Ke Ea A Kanaloa Culture Plan	X	X	X
Ala Loa Maintenance and Stabilization			
Maintenance of Hakioawa Facilities & Infrastructure	X	X	X
Kilohōkū and Kilo Pae Honua	X	X	X
Ho‘ōla ‘Āina - Native plant restoration	X	X	X
<b>Project:</b> Ka ‘Ai A Kanaloa – Marine Debris Clean-up and Marine Monitoring	<b>STATUS:</b> Observed a few native sea birds (‘ā, ‘iwa) and a few koholā offshore throughout our huaka‘i. Organized and re-bagged marine debris.		
<b>Project:</b> Practice of Hawaiian Arts and Science: Kūkulu Ke Ea A Kanaloa Culture Use Plan	<b>STATUS:</b> 40 <sup>th</sup> Makahiki season prep for Panina Makahiki; observations of related hō‘ailona; honoring of Papa, Kanaloa, Kāne.		
<b>PROJECT:</b> Maintenance of Hakioawa Facilities & Infrastructure	<b>STATUS:</b> Installed new lele with lama gathered from Pohoiki, Lononuiākea at Hale Mua and Hale o Papa (see Figure 1)		
<b>Project:</b> Kilohōkū and Kilo Pae Honua	<b>STATUS:</b> Hō‘ailona WIDE...1/14/22 and 1/17/22 early morning, ocean mālie; we observed many plants flowering and/or seeding makai and mauka (i.e. wiliwili, ākulikuli, pōhuehue; ‘a‘ali‘i; naio; alena; ‘ilima papa; pa‘ūohi‘iaka; pili) (see Figure 2).		
<b>Project:</b> Ho‘ōla ‘Āina - Native Plant Restoration	<b>STATUS:</b> With the abundance of rain during this Makahiki-ho‘oilo season, hand cleared weeds around native plants and māla ‘ai (see Figure 3). Ensured māla ‘ai was receiving water from drip line + ensured native		





**PROTECT KAHO‘OLAWE ‘OHANA**  
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	plants planted between Nāmakapili and Ka‘ie‘ie were receiving water from drip lines (see Figure 4)					
<b>HEALTH &amp; SAFETY:</b> Describe briefly and attach Incident Report, if applicable. None, mahalo nā akua!						
<b>UXO Encountered:</b> None, mahalo nā akua!						
<b>CONDITIONS:</b> <b>Ocean</b> – 1/14/22 to 1/17/22, Kona winds continued so ocean mālie with normal mid-morning wind swell. <b>Weather</b> – 1/14/22 to 1/17/22, Kona winds so sunny, partially sunny at times, and cool evenings. <b>Trails</b> – Continued trail maintenance and stabilization on both Lāna‘i and Hawai‘i Island side.						
<b>HAKIOAWA SITE SUMMARY</b>						
LUA	Panel Clear of Debris?	Light Working?	Fan Working?	Lock Working?	Chip Supply (50# Bag)	Notes
#1 Lāna‘i Side – Mauka	‘ae	‘ae	NO	‘ae	1	1/16/22 Eric mentioned he was unable to fix fan; might be an electrical issue
#2 Lāna‘i Side – Makai	‘ae	‘ae	‘ae	‘ae	1	
#3 Hawai‘i Island Side - Right	‘ae	‘ae	‘ae	‘ae	1	1/16/22 Eric fixed fan, mahalo! He recommended to check-out electric panel to ensure fans continue to work
#4 Hawai‘i Island Side - Left	‘ae	‘ae	‘ae	‘ae	1	
<b>FIRST AID</b>	AED Charged? ‘Ae			O2 Tank Full and Working? ‘Ae		
<b>VECTOR CONTROL</b>	A few pōpoki					
<b>NOTES:</b>	<ul style="list-style-type: none"> <li>• Mana-full Makahiki prep...hō‘ailona wide!!!</li> <li>• Mahalo piha to KIRC for all your kōkua!</li> <li>• 1/14/22 AED was brought to Hakioawa. 1/17/22 AED and radio Pelican cases were brought back to Maui and left with Cassie Smith at the KIRC boathouse.</li> </ul>					





**PROTECT KAHO‘OLAWE ‘OHANA**  
 Post Huaka‘i Report for  
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	<p><b>All 7 ‘Ohana adhered to the COVID-19 Safety Protocols, Po‘o: Overall – Kaliko Baker; Zodiac &amp; Kitchen/Food – J-boy Sanada</b></p> <p><b>State of Hawai‘i</b> - All volunteers will:</p> <ul style="list-style-type: none"> <li>• Wear masks + physical distance</li> </ul> <p><b>Maui County</b> - All volunteers will</p> <ul style="list-style-type: none"> <li>• Follow all Covid-19 Maui Country Travel Guidelines</li> </ul> <p><b>Protect Kaho‘olawe ‘Ohana</b></p> <p>Transit via ‘Ohana Zodiac Covid-19 protocols</p> <ul style="list-style-type: none"> <li>• Mask wearing which includes transfer between vessels</li> <li>• Masks may be removed when entering the water to swim to shore</li> </ul> <p>On-island</p> <ul style="list-style-type: none"> <li>• Pre-huaka‘i orientation by Kua</li> <li>• Washing hands</li> <li>• Mask wearing + may be removed when outdoors and physically distanced</li> <li>• Physical distancing</li> </ul> <p>Food Safety</p> <ul style="list-style-type: none"> <li>• All meals served by designated kua</li> <li>• All water filtrations serviced by a designated kua.</li> </ul> <p>Four Lua</p> <ul style="list-style-type: none"> <li>• In addition to regular Clivus Multrum guidelines as listed inside each lua, internal and external door handles will be sanitized after use</li> </ul>
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<b>FINAL ITINERARY</b>	
<b>DAY/DATE</b>	<b>LOCATION &amp; ACTIVITY</b>
<b>‘Ekahi</b> <b>1/14/22</b> Pō‘alima	<ol style="list-style-type: none"> <li>1. Early morning, PKO zodiac (4 ‘Ohana) departed Kīhei for Kūheia to drop off water jugs and proceed to Hakioawa to help with off-loading ‘Ōhua.</li> <li>2. Early morning, 3 of 7 ‘Ohana arrived to Hakioawa via ‘Ōhua.</li> <li>3. 2 ‘Ohana (<i>Kaliko Baker, Momi Wheeler</i>) remain on ‘Ōhua, help KIRC offload in Honokanai‘a, drive KIRC vehicle(s) from Honokanai‘a to stage at Wailuna, and holo makai to Hakioawa.</li> <li>4. Makahiki Prep and Ho‘ōla ‘Āina.</li> <li>5. 7 ‘Ohana overnight in Hakioawa (see Figure 5).</li> </ol>
<b>‘Elua</b> <b>1/15/22</b> Pō‘aono	<ol style="list-style-type: none"> <li>1. Early morning, 7 ‘Ohana remained in Hakioawa to finish installing new lele at Hale o Papa.</li> <li>2. 11 a.m., 5 ‘Ohana holo mauka from Hakioawa to Wailuna, picked up and drive staged KIRC vehicle to Lelehune to meet up with KIRC staff.</li> </ol>



**PROTECT KAHO‘OLAWE ‘OHANA**  
 Post Huaka‘i Report for  
 ‘Ianuali 14 – 17, 2022

	<ol style="list-style-type: none"> <li>3. Early morning, 2 to 3 ‘Ohana holo mauka from Hakioawa to Wailuna, pick up and drive staged KIRC vehicle(s) to Moa‘ula Iki – Kūheia to meet up with 6 ‘Ohana. <u>Note</u>, Lopaka Aiwohi will also holo mauka and spend the day mauka.</li> <li>4. Afternoon, 5 ‘Ohana drove KIRC vehicle(s) along with KIRC staff to clear Moa‘ula Iki area for Makahiki.</li> <li>5. Mid-afternoon, 5 ‘Ohana drive KIRC vehicles from Moa‘ula Iki to Honokanai‘a and overnight. <u>Note</u>, 5 ‘Ohana remained in Honokanai‘a and departed via ‘Ōhua 1/17/22.</li> <li>6. 2 ‘Ohana (<i>Lopaka Aiwohi, J-boy Sanada</i>) remained in Hakioawa until 1/17/22.</li> </ol>
<b>‘Ekolu</b> <b>1/16/22</b> Lā Pule	<ol style="list-style-type: none"> <li>1. Lopaka Aiwohi, and J-boy Sanada will continue with Ho‘ōla ‘Āina projects in Hakioawa.</li> <li>2. 5 ‘Ohana participated in KIRC work project, cleaned ala loa from Honokanaenae to Kealaikahiki for Makahiki, and remained in Honokanai‘a.</li> </ol>
<b>‘Ehā</b> <b>1/17/22</b> Pō‘akahi	<ol style="list-style-type: none"> <li>1. Early morning, ‘Ōhua picked-up 5 ‘Ohana and Dawson staff in Honokanai‘a and departed to Hakioawa.</li> <li>2. ‘Ōhua arrived in Hakioawa, assisted with PKO zodiac crew transfer, and picked-up Lopaka Aiwohi, and J-Boy Sanada.</li> <li>3. 7 ‘Ohana depart via PKO zodiac and ‘Ōhua leaving no one on island by 12 pm.</li> </ol>

#	LAST NAME	FIRST NAME (Nickname)	AGE	GROUP	Participant Safety Identification					NOTES
					KUA	Access Guide	Water Safety	First Responder	First Aid / CPR	
1.	Baker	Kaliko	A	Mo‘olono	X	X	X		X	‘Ōhua
2.	Aiwohi	Lopaka	A	Mo‘olono	X		X			‘Ōhua
3.	Sanada	J-boy	A	PKO	X	X	X		X	Zodi captain
4.	Baker	Kaipulaumakaniolono	A	Mo‘olono	KIT (Kua in Training)	X	X		X	Zodi crew
5.	Beyer	Keli‘i	A	MIT (Mo‘olono in Training)			X			Zodi crew
6.	Nāhuelwai	‘Ika‘aka	A	MIT	KIT					Zodi crew
7.	Wheeler	Momi	A	PKO	X	X			X	‘Ōhua



**PROTECT KAHO‘OLAWE ‘OHANA**  
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<b>Captain and Crew List</b>					
#	Vessel Name	Crew – Last Name	Crew – First Name	Age	NOTES
1.	‘Ōhua	White	Lopaka (Captain)	A	
2.	‘Ōhua	KIRC staff		A	
3.	PKO Zodiac	Sanada	J-boy (Captain)	A	
4.	PKO Zodiac	Beyer	Keli‘i	A	
5.	PKO Zodiac	Baker	Kaipulaumakaniolono	A	
6.	PKO Zodiac	Nāhuewai	‘Ika‘aka	A	



Figure 1. Hale o Papa, left photo (*courtesy of Momi Wheeler*) and Hale Mua, right photo (*courtesy of Kaliko Baker*)



PROTECT KAHO‘OLAWE ‘OHANA  
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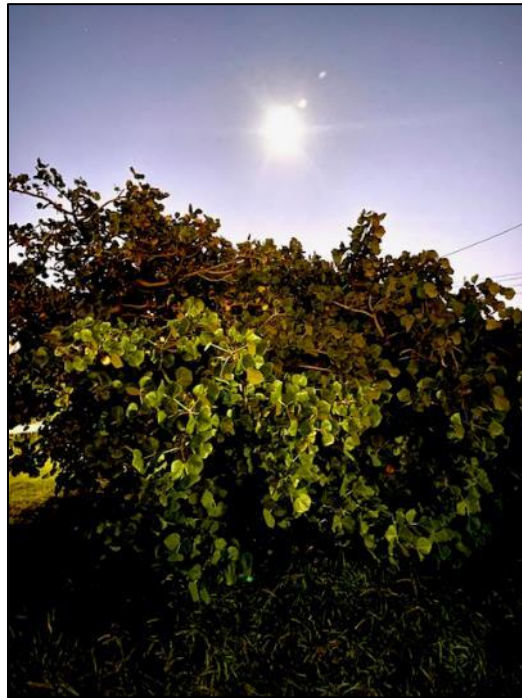


Figure 2. Wiliwili by moonlight, Honokanai‘a (*courtesy of Momi Wheeler*)



Figure 3. Native Plant friends, before and after hand clearing weeds (*courtesy of Lopaka Aiwahi*)





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Figure 4. Māla ‘ai (courtesy of Momi Wheeler)



Figure 5. Family Photo (courtesy of Momi Wheeler)