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MEETING NOTES

Department of Hawaiian Home Lands

Hawai'i Island Plan Update

Beneficiary Consultation, Round 2

Kohala & Hāmākua – Kūhiō Hale DHHL West Hawai'i Office

MEETING DATE: April 10, 2025
6:00 pm – 8:00 pm

PRESENT:

Project Team:

1. Lillie Makaila, DHHL
2. Julie-Ann Cachola, DHHL
3. Kialoa Mossman, DHHL
4. Nathalie Razo, PBR HAWAII
5. Makena Bassett, PBR HAWAII

Beneficiaries / Community Members:

TOTAL ATTENDEES:	38
Total Beneficiaries:	24
Applicants:	3
Lessee:	16
Both:	5
Other:	5
No response:	9

ATTACHMENTS: A) PowerPoint Presentation, B) Proposed Land Use Designation Round 2 Maps, C) Fact Sheets, D) Comment Cards

1. Meeting Overview and Highlights

This meeting was the second of three rounds of meetings to discuss and receive feedback from DHHL beneficiaries on updated land designations for the Hawai'i Island Plan Update. The purpose of this meeting was to educate the beneficiaries on the current Hawai'i Island Plan and receive input on the proposed Land Use Designations for the Hawai'i Island Plan Update, which incorporated edits suggested by beneficiaries from Round One.

The Proposed Land Use Designation Maps for Round 2 (Attachment B) and Fact Sheets (Attachment C) for each tract were posted along the windows of Kūhiō Hall. As the meeting attendees arrived, they were asked to sign in and were given comment cards (Attachment D) for attendee review and use during the rest of the meeting. The comment cards listed each tract of DHHL land and included space for beneficiaries to leave their input about the proposed land use designations. During sign-in, attendees were encouraged to visit the maps posted along the windows prior to the start of the formal

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presentation. Sticky notes and markers were also provided for beneficiaries to leave comments on each map. The meeting opened with a pule by a community member.

Lillie Makaila of DHHL led the presentation (Attachment A) and the meeting. She began the presentation with a review of the meeting agenda, as well as the overview and approach for the Hawai‘i Island Plan Update. She gave background information on the original Hawai‘i Island Plan (2002) and the purpose/process of the Plan Update, and introduced the timeline of the project. She supplemented the explanation of the timeline with a brief description of the data, research, and analysis that PBR HAWAII conducted to create the maps for this Island Plan Update. She also explained the difference between an Island Plan (which is land focused) and a Regional Plan (which is people focused). Lillie followed this with an emphasis on the importance of incorporation of beneficiary knowledge in the Plan Update and land use designation maps and gave a brief explanation of the updated Land Use Designations from the 2022 Department of Hawaiian Home Lands General Plan Update. The presentation included a brief description of each Land Use Designation, categorized by homesteading and non-homesteading uses. Lillie emphasized that a major role of the Plan Update is to redesignate lands previously identified as General Agriculture which was removed as a category in the 2022 Department of Hawaiian Home Lands General Plan Update. It was replaced by the Stewardship designation to signify the lands could be used for homestead in the future, but something is keeping them from being used as a homestead designation right now.

Lillie also discussed the process by which the DHHL Hawai‘i Island Plan Update project team incorporated beneficiary comments from Round 1 into the Round 2 maps, and emphasized the importance of beneficiary feedback in creating a plan that meets the needs of beneficiaries of the present and future. She asked the beneficiaries to share any and all feedback that they have for the proposed land use designations identified in these maps for the Round 2 Beneficiary Consultation so that comments and feedback can be incorporated into the draft plan and land use designations that will be presented during the Round 3 Beneficiary Consultation. It was also mentioned that the map making process includes an ongoing effort to aggregate paper record data and GIS updates, so some data represented on the maps may be incomplete, and discrepancies may be present on the maps at present. Lillie asked the beneficiaries to notify the team if they identified one. Lillie emphasized that beneficiaries have an intimate and expert knowledge on the land, and that their comments can assist the project team in creating an Island Plan and maps that are accurate and best fit the needs of beneficiaries. Lillie shared methods for submitting comments including physical mail, email, phone call, and online comment form in addition to the comment card at the meeting.

Following this, she went over each DHHL tract in Kohala, Hāmākua, and the ‘Āina Mauna Legacy Lands. The presentation outlined the land use designations identified in the 2002 Hawai‘i Island Plan¹, the Round 1 Proposed Land Use Designation Maps, and compared them to the proposed

¹ Note: The 2002 Hawai‘i Island Plan is the main source for identified land use designations; however, some tracts are more recent acquisitions or were subject to planning efforts more recently than 2002, such as the 2009 West Hawai‘i Island Plan Update which accounted for the acquisition of lands in Kona, which increased DHHL’s inventory of land in Hawai‘i by 605 acres or the Āina Mauna Legacy Program. In such instances the most recent reference was utilized.

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Land Use Designation Maps produced for Round 2. Lillie explained the reason for the proposed land use designations, and whether they were changed from Round 1 or remained the same. Lillie also explained that the DHHL Kuleana land use designation is only proposed in areas where it was expressed by beneficiaries as an interest for their community. It was also shared that the Hawaiian Homes Commission Act mandates a space for beneficiaries to practice agriculture, which the community agriculture designation fulfills. During the presentation, Lillie spent extra time going over the changes and corrections made to the Round 2 maps based off the feedback received during Round 1 (see below for a summary of these explanations).

- Kawaihae:
 - Round 1 striped area for industrial/renewable energy is designated as industrial to reflect beneficiary concern and feedback regarding renewable energy.
 - Missing residential areas along Kawaihae Road were corrected and added to the map.
 - Special District was designated around the coast to reflect the complicated environment/geography of the area.
 - Striped subsistence agriculture/supplemental agriculture designations was switched to only subsistence agriculture designation to accommodate a higher number of residences and leases.
 - Conservation areas were removed from an existing pastoral lease but added to encompass critical habitat surrounding a non-perennial stream.
- 'Upolu Point:
 - Community use replaced the special district designation from Round 1 to reflect high support from beneficiaries.
- Keoniki:
 - Entire tract designated as pastoral to reflect beneficiary input.
- Lālāmilo:
 - Increase in residential designation to reflect beneficiary input.
 - Industrial designation has been adjusted to accurately reflect current DHHL land holdings.
- Pu'ukapu:
 - 201-acre parcel at the bottom of the tract was changed to special district to reflect the presence of a pu'u on the land.
- Kamoku-Kapulena:
 - Addition of 20-acres of conservation designation to align with the adjacent Hāmākua forest Reserve.
- Honoka'a:
 - Residential designated in west area of the tract to reflect beneficiary input.
 - Subsistence agriculture designated in the east above the special district area to reflect beneficiary input.
- 'Āina Mauna Legacy Lands—Humu'ula and Upper Pi'ihonua:
 - Special District area designation was added to reflect the gorse located in the area.
 - The remaining designations reflect the 'Āina Mauna Legacy Program Plan.

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Lillie went through each tract in Kohala and Hāmākua before opening the floor for questions and comments. Beneficiaries could participate by raising their hands to provide oral comments and/or walk around the room to review the maps and leave comments on their comment cards, sticky notes, or discuss their input with the project team. Oral comments brought up during the question-and-answer period were recorded by PBR HAWAII and are summarized below. A more detailed account of beneficiary oral comments can be found in Section 5.

The meeting ran late and was closed at 8:30 pm, which allowed only a portion of the planned Q&A time and may have left some beneficiary questions and comments unshared. This led to the team asking beneficiaries to share any additional or unshared feedback via comment card, email, online comment form, or paper mail during the forthcoming comment period, which they would each be emailed by DHHL about with more information and instruction. Team members also remained at the venue after the meeting to listen to any pressing feedback or questions.

The following key topics were identified in oral comments:

- Concerns about hazards on and surrounding DHHL lands, including UXOs and a dump.
- Potential map discrepancies about existing leases.
- Concerns about water access and rights.
- Concerns about private entities using DHHL land and resources.
- Desire for an increase in residential opportunities and trading conservation land for lands more suitable for residential uses.

2. Comment Card Comments

- a. We received 9 comment cards at the meeting from beneficiaries with comments regarding the proposed Land Use Designations.

3. Fact Sheet Comments

- a. We received 0 comments on the Fact Sheets.

4. Large Map Sticky Note Comments

- a. We received 55 Large Map comments and questions about land characteristics, map discrepancies, Land Use Designation suggestions, and expressed priority for projects.

5. Beneficiary Question and Answer Input

a. Q&A:

1. A question arose about the Right of Entry (ROE) location for Kahua Ranch, which DHHL staff pointed out on the map.
2. There was also a question about potential hydroelectric renewable energy projects since there had been previous discussions about a potential hydroelectric renewable project in the area. The DHHL team will follow up with their internal team to discuss if there are any planned hydroelectric projects in the area.

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3. Participants noted potential missing residences near the harbor in Kawaihae, and questions as to why reinterment and water sources are not represented in the maps. Lillie answered that the Island Plan project team will investigate the missing residences but that out of concern for privacy, ground water wells and burial sites will not be specifically shown on the maps.
4. There was a note and question regarding five lots in Kawaihae makai that are not developed and whether they have been awarded. DHHL responded that they will investigate it.
5. Participants identified potential discrepancies around vacant lots in Keoniki, the boundary between DHHL tracts and Kohala Ranch, and 11 acres that appears to be missing in Lālāmilo. The Island Plan project team will follow up on these items.
6. Participants asked about the dump in Lālāmilo, noting that there had been plans to move the dump, and asked why infrastructure was installed and then allowed to sit without homesteading. DHHL will check on the status of the dump in Lālāmilo. A subsequent question was whether the unexploded ordnances (UXO) have been cleared and if the area will be used for residential or agricultural awards too. DHHL claimed that UXOs have been removed and the area is clear, and will be available for awards; however, the use depends on the designation, which the community can help determine with the Island Plan Update.
7. It is claimed that Parker Ranch is illegally accessing DHHL land to mill Sugi Pine trees on pastorally designated lands in that area. The project team is going to check with DHHL Land Management Division (LMD).
8. Some beneficiaries believe that the striped land in Nienie and Kamoku-Kapulena; along with the conservation designated lands in Waimanu, should be exchanged with DLNR for land that can more easily be utilized for residential uses. Beneficiaries also noted that the trees in Nienie, and surrounding tracts, are vital to aquifer recharge so should be designated as conservation, and the remainder of the tracts should be designated pastoral.
9. There was another request to review how much of the DHHL lands are in the State forest reserve and to determine if there could be a land exchange with DLNR.
10. There are infrastructure issues in Honokāia and many beneficiaries are not able to access water or electricity while there are non-beneficiaries that are receiving utilities (infrastructure/electric/water) that run through DHHL lands. Lillie noted that she believes there was a prior agreement made with the non-beneficiaries for utilities to run through the DHHL lands. The main concern is when infrastructure will be provided to Honokāia lessees.
11. It was also noted that there is a standpipe in Honokāia by Old Mamalahoa Highway; Beneficiaries need water now and they shouldn't have to wait for million-gallon reservoir. There was also a request for the "need for water" topic to be encapsulated

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in the Island Plan Update, and for DHHL to prioritize working closely with the county Department of Water (DOW) to get water.

12. Participants also asked about the prioritization of lots and what will be done to assure beneficiaries that what is identified in the Island Plan will be done, particularly related to access to infrastructure. There was a request for DHHL to better communicate priorities with beneficiaries.
13. There was a comment that there are flooding issues that cause traffic issues in Honoka'a.
14. There was a clarification question about the community use in the Pu'ukapu tract, the project team noted that Kanu o ka 'Āina is on DHHL lands and that is why that designation was selected.

This is our understanding of the topics discussed, and the conclusions reached. Please give PBR HAWAII written notification of any errors or omissions within seven calendar days. Otherwise, this report will be deemed an accurate record and directive.

DEPARTMENT OF HAWAIIAN HOME LANDS
HAWAI'I ISLAND PLAN UPDATE
BENEFICIARY MEETING, ROUND 2
KOHALA & HĀMĀKUA – KŪHIŌ HALE DHHL WEST HAWAI'I OFFICE
APRIL 10, 2025
ATTACHMENTS TO SUMMARY

ATTACHMENT A:
PowerPoint Presentation

DEPARTMENT OF HAWAIIAN HOME LANDS

Hawai'i Island Plan Update

August 10, 2025

Kohala/Hāmākua Beneficiary Meeting: Round 2

Agenda

- Welina, pule, introductions
- Presentation:
 - Project Overview & Timeline
 - Background information
 - Land Inventory & Maps
- Q&A, Discussion, & Comments
- Closing & next steps

HAWAI'I ISLAND PLAN UPDATE

DEPARTMENT OF HAWAIIAN HOME LANDS

Overview and Approach

Plan Purpose

To assess and recommend future uses for DHHL lands on Hawai'i Island

20

YEAR TIMEFRAME



IDENTIFY
LAND USES



DETERMINE
PRIORITIES



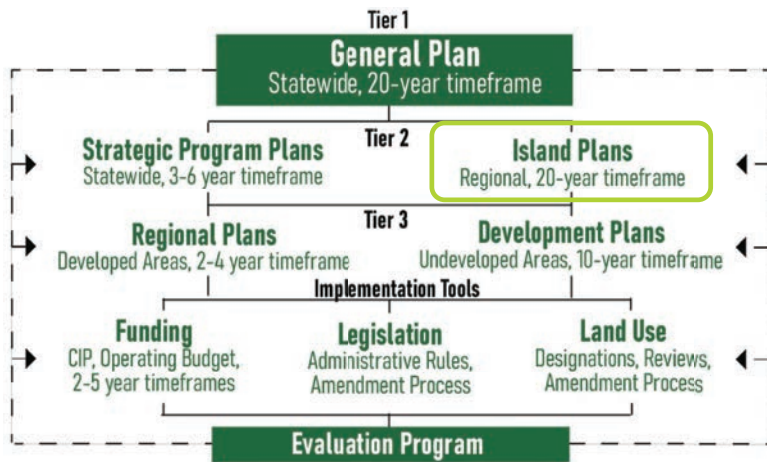
COORDINATION

HAWAI'I ISLAND PLAN UPDATE

DEPARTMENT OF HAWAIIAN HOME LANDS

HAWAI'I ISLAND PLAN UPDATE

DEPARTMENT OF HAWAIIAN HOME LANDS



HAWAII ISLAND PLAN UPDATE

DEPARTMENT OF HAWAIIAN HOME LANDS

About the Hawai'i Island Plan (HIP) Update



• Last HIP occurred in 2002

- Provided an evaluation and land use plan of DHHL lands to meet beneficiary needs based on various criteria
- 10 Designations included the intent/purpose, minimum lot sizes, and minimum infrastructure required for each land use designation
- Criteria: Slope, Soil, Water/Rainfall, Proximity to Infrastructure, Parcel Size, Proximity to Town Centers, Carrying Capacity



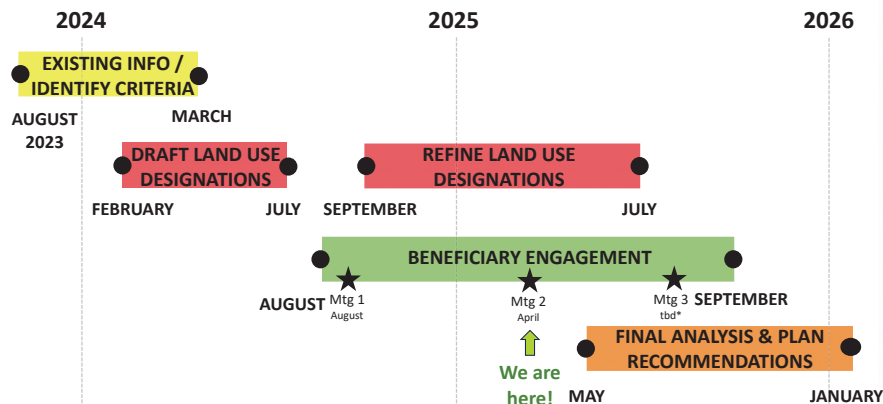
• 2022 DHHL General Plan Update

- Identifies new policies, land use designations, approach to land use designations, and associated criteria
- Designations for island plans updated to include 13 designations
 - New designations: DHHL Kuleana, Stewardship, Community Agriculture, Renewable Energy
- Added Criteria: + Climate Change and Hazards, Critical Habitats, Archaeological Sites, Flood risk, State and County Land Use Designations

HAWAII ISLAND PLAN UPDATE

DEPARTMENT OF HAWAIIAN HOME LANDS

Project Schedule*



*Subject to change

HAWAII ISLAND PLAN UPDATE

DEPARTMENT OF HAWAIIAN HOME LANDS

About the Process

Learn about current conditions

- Develop full inventory of known DHHL lands on Hawai'i Island and current land use designations (including acquisitions and Development Plans since 2002)
- Consider environmental aspects and DHHL land use designation criteria

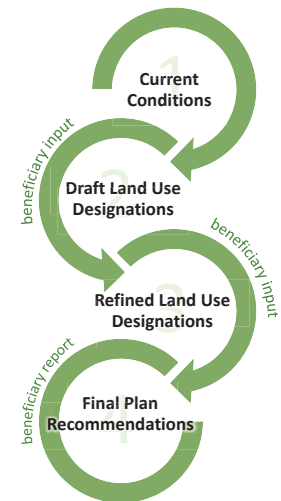
Build an understanding of the desired end goal AND identify land use designations

- Iterative process: Run analysis based on criteria – discuss – refine options/priorities – discuss
- Incorporating beneficiary knowledge to review and refine preliminary land use analysis and designations

Final product is a guide for future development

- Consider uses, placement, and how uses may work together overall

HAWAII ISLAND PLAN UPDATE

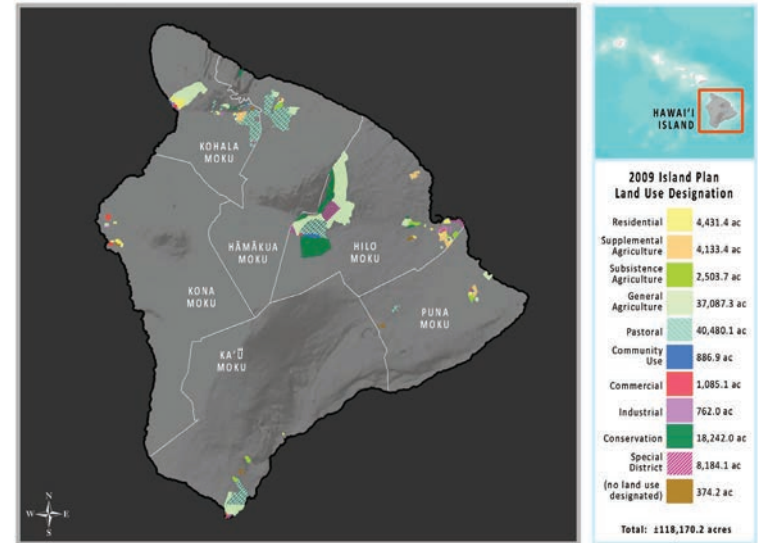


DEPARTMENT OF HAWAIIAN HOME LANDS

Incorporating Beneficiary Knowledge

- Three rounds of touchpoints with Beneficiaries – four meetings each round by area (Hilo+Puna, Ka’ū, Kona, and Kohala+Hāmākua)
 1. Feedback on draft recommended land uses
 2. Feedback on refined land uses
 3. Feedback on final land use recommendations and plan
- Each round to be followed by a 30-day comment period with materials posted online
- Compilation of community comments and resulting changes to recommendations and plan will follow each comment period

ALL TRACTS | HAWAII ISLAND



2022 General Plan Update Land Use Designations

Homestead Uses	Description
Residential	Residential lot subdivisions built to County standards in areas close to existing infrastructure. Subdistricts may be established for multi-generational and single family housing types.
Subsistence Agriculture	Small lot agriculture in areas close to existing infrastructure. Lifestyle areas intended to allow for home consumption of agricultural products.
Supplemental Agriculture	Large lot agriculture intended to provide opportunities for agricultural production for supplemental income and home use. Agricultural plan required.
Pastoral	Large lot agriculture specifically for pastoral uses. Ranch plan and fencing required.
DHHL Kuleana	Raw (without infrastructure) lots intended for “off-grid” subsistence lifestyles to allow for more choices as to how lessees wish to develop their lots. Must participate in maintenance of the right-of-way to the Kuleana Homestead tract.

Non-Homestead Uses	Description
Community Use	Common areas for community uses and public facilities. Includes space for parks and recreation, cultural activities, community based economic development, utilities, and other public facilities and amenities.
Community Agriculture	Common areas used for the cultivation of fruits, vegetables, plants, flowers, or herbs by multiple users. The land must be served by a water supply sufficient to support the cultivation practices used on the site.
Commercial	Lands suitable for a concentration of commercial activities.
Industrial	Lands suitable for processing, construction, manufacturing, transportation, wholesale, warehousing, and other industrial activities.
Renewable Energy	Lands suitable for siting projects for the generation and transmission of renewable energy.
Stewardship	Land not currently used for homesteading. Allow uses that maintain or enhance the value and condition of the land to the benefit of beneficiaries and the Trust. May serve as an interim use until opportunities for higher and better uses become available.
Conservation	Environmentally sensitive areas. Lands with watersheds, endangered species, critical habitats, sensitive historic and cultural sites, other environmental factors. Very limited uses.
Special District	Areas requiring special attention because of unusual opportunities and/or constraints. Subdistricts include: hazard areas, open spaces/greenways, cultural resources.

Your Feedback

Your input will help refine proposed land uses



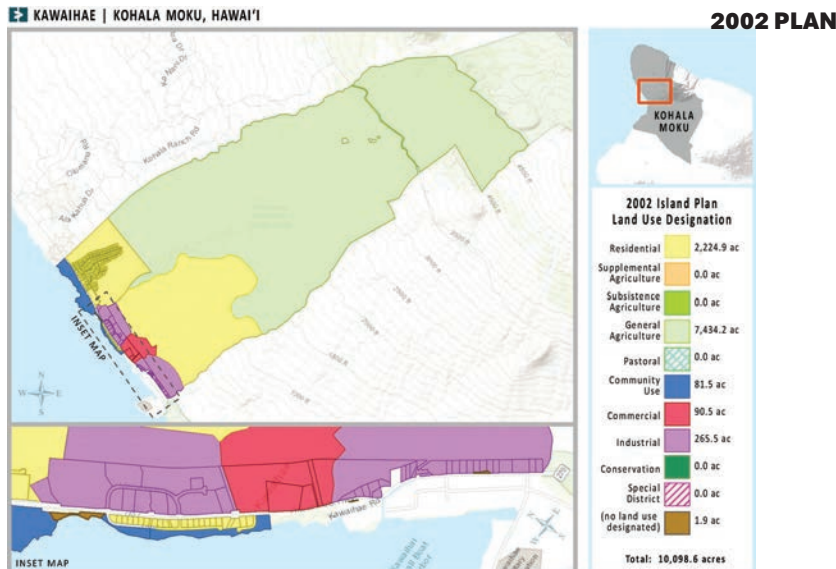
Concept Maps for your Consideration

- 1** First map is from the 2002 Hawai'i Island Plan
- 2** Second map identifies the Round 1 Beneficiary Consultation proposed land use designations which generally add more residential opportunities
- 3** Third map identifies modifications to proposed land use designations based on input and feedback to date



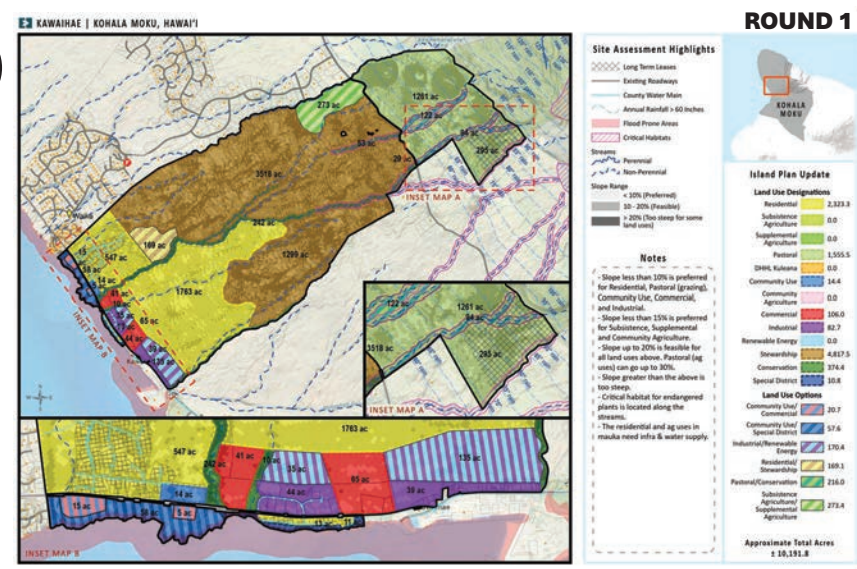
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KAWAIIHAE



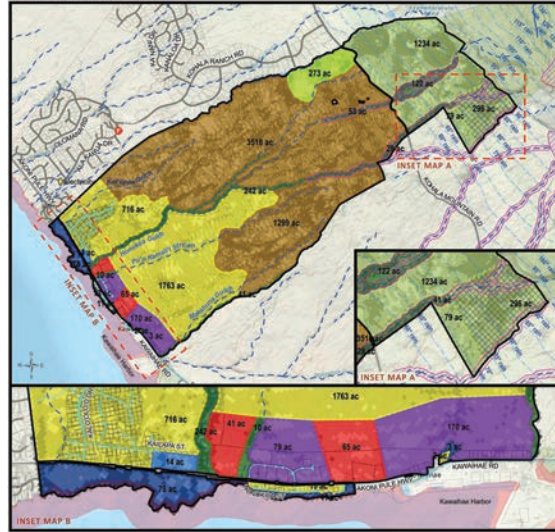
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KAWAIIHAE



1 KAWAIHAE

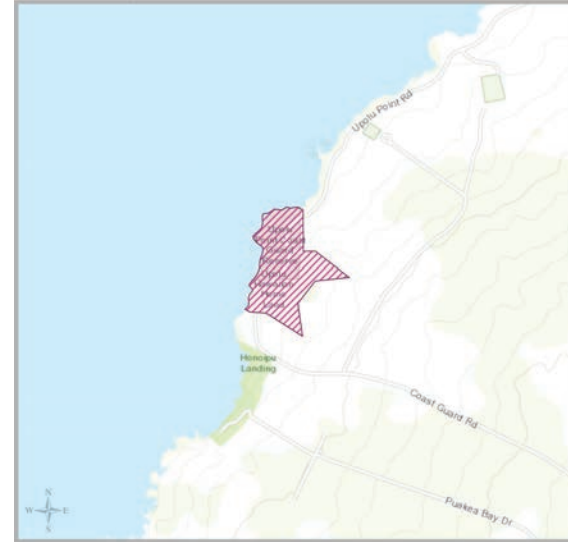
3 KAWAIHAE | KOHALA MOKU, HAWAII



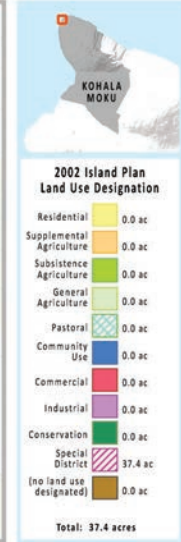
ROUND 2

2 'UPOLU

3 'UPOLU POINT | KOHALA MOKU, HAWAII

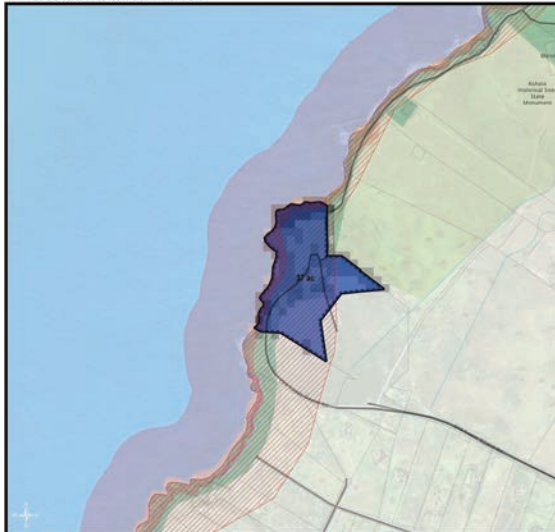


2002 PLAN



2 'UPOLU

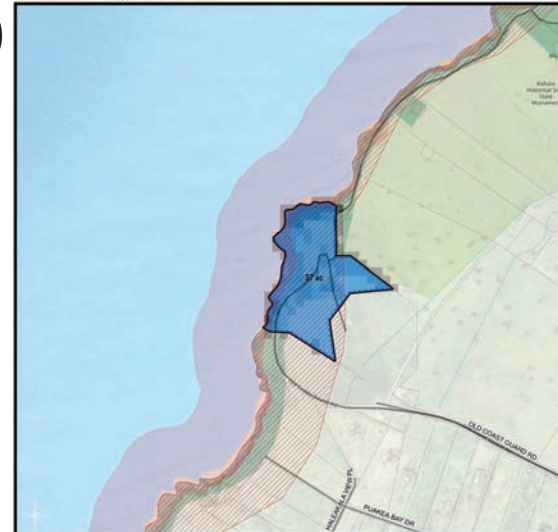
3 'UPOLU POINT | KOHALA MOKU, HAWAII



ROUND 1

2 'UPOLU

3 'UPOLU POINT | KOHALA MOKU, HAWAII

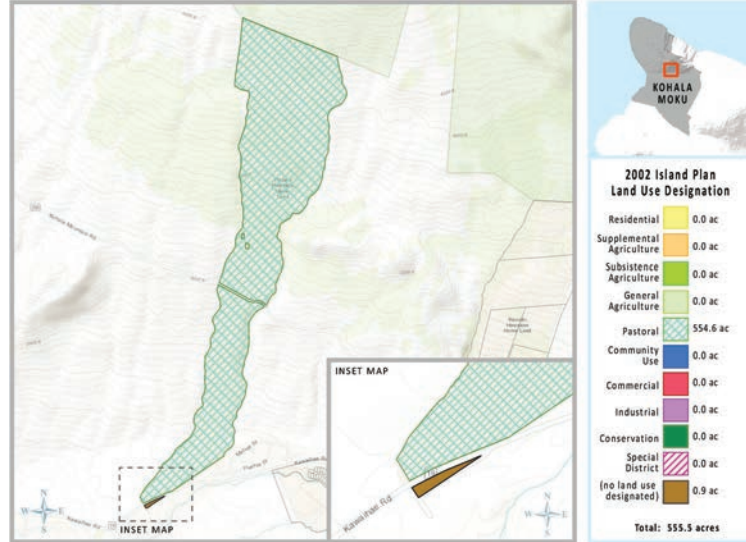


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3 PAU A H I

PAU A H I | KOHALA MOKU, HAWAII

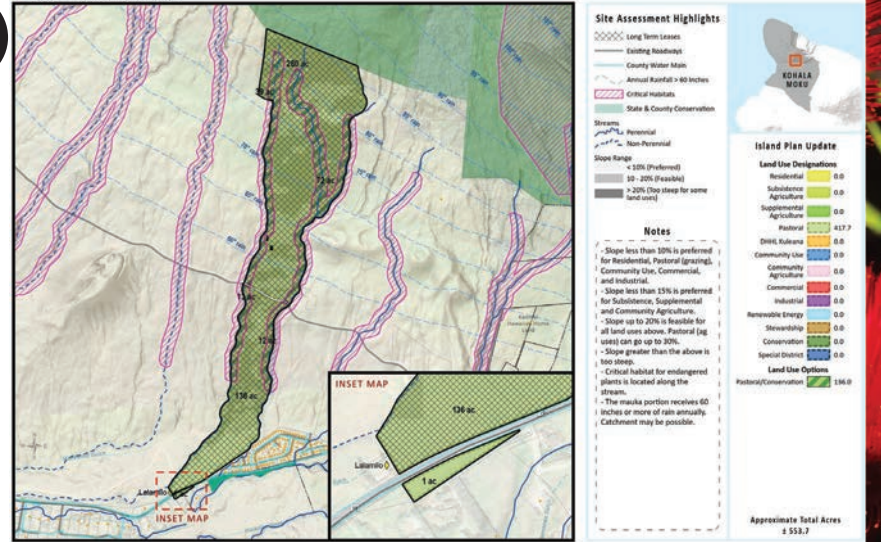
2002 PLAN



3 PAU A H I

PAU A H I | KOHALA MOKU, HAWAII

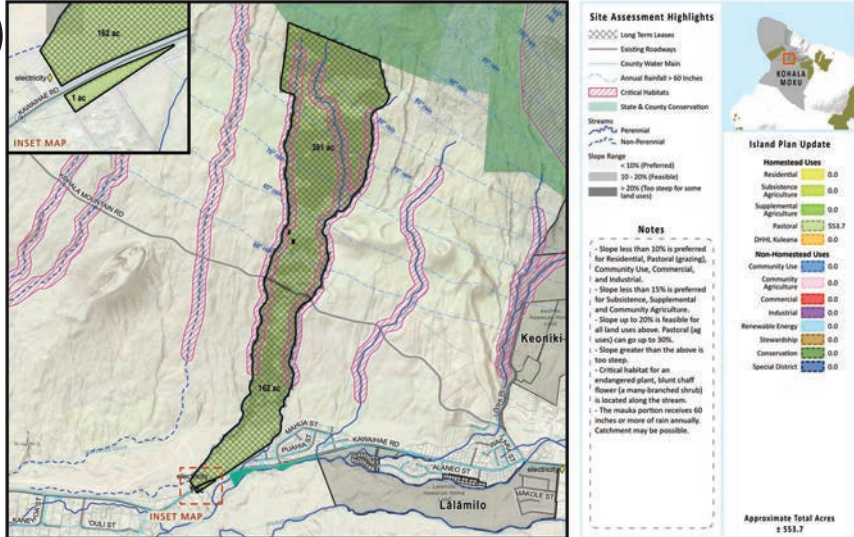
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3 PAU A H I

PAU A H I | KOHALA MOKU, HAWAII

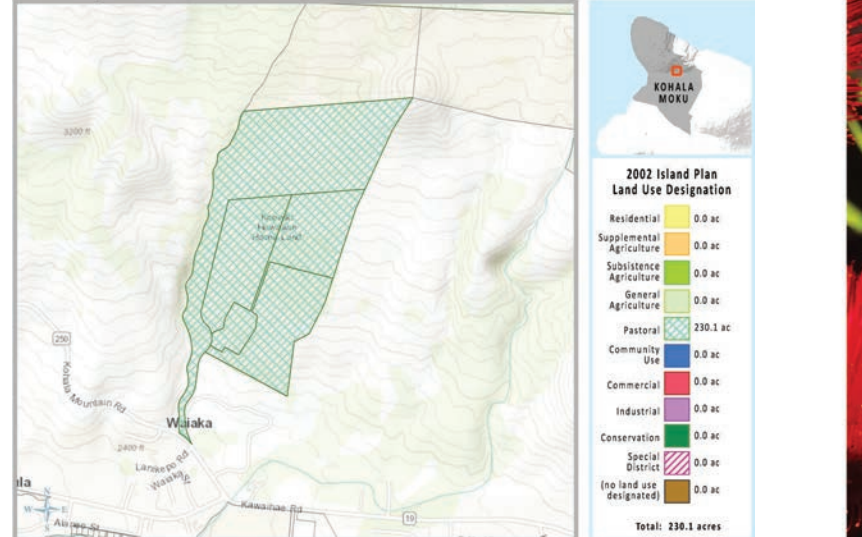
ROUND 2



4 KEONIKI

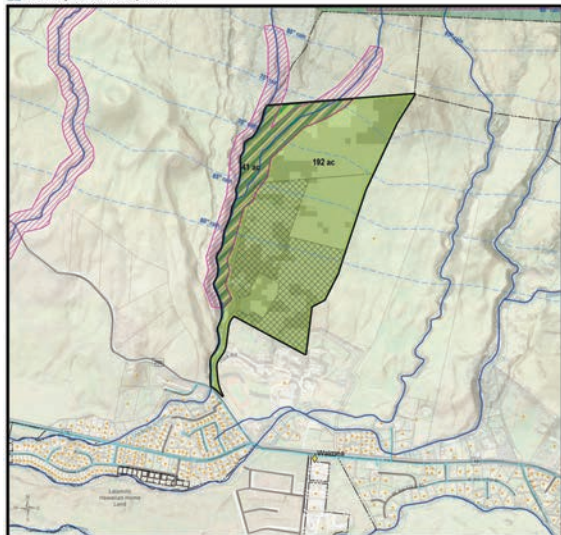
KEONIKI | KOHALA MOKU, HAWAII

2002 PLAN



4 KEONIKI

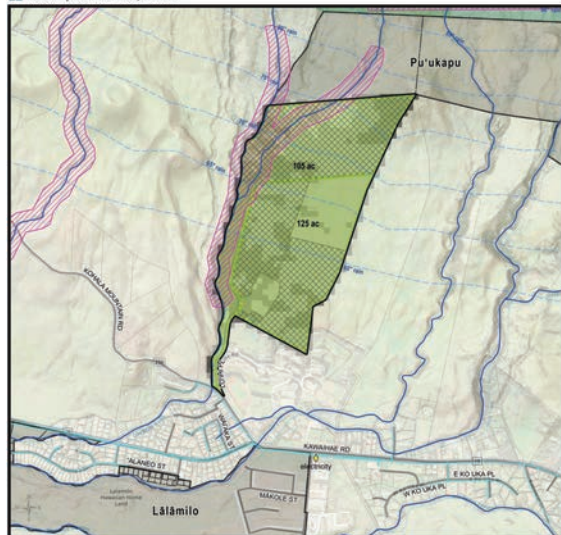
4 KEONIKI | KOHALA MOKU, HAWAII



ROUND 1

4 KEONIKI

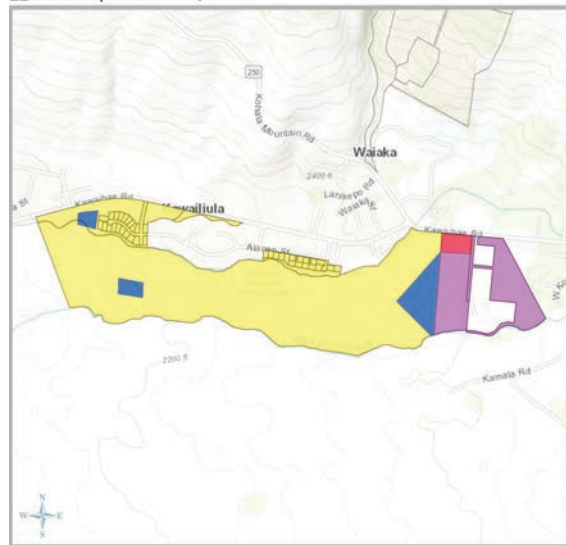
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ROUND 2

5 LĀLĀMILO

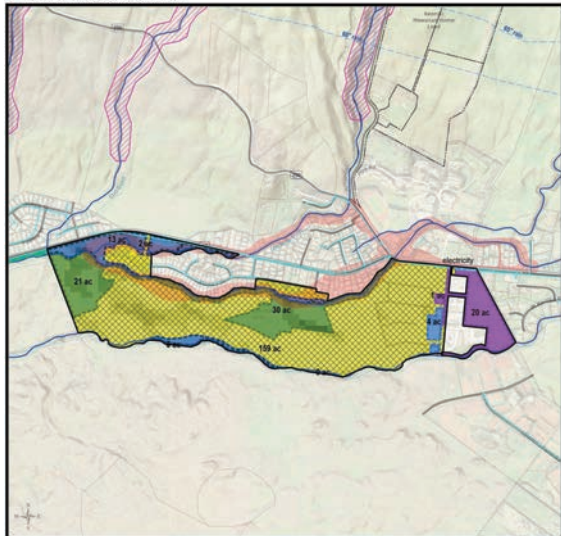
5 LĀLĀMILO | KOHALA MOKU, HAWAII



2002 PLAN

5 LĀLĀMILO

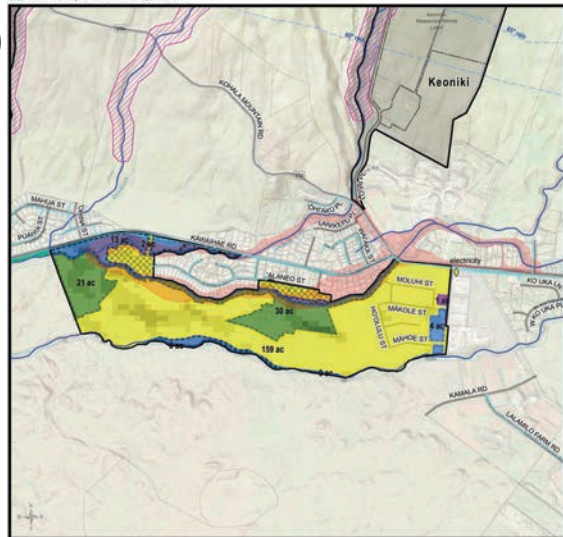
5 LĀLĀMILO | KOHALA MOKU, HAWAII



ROUND 1

5 LĀLĀMILO

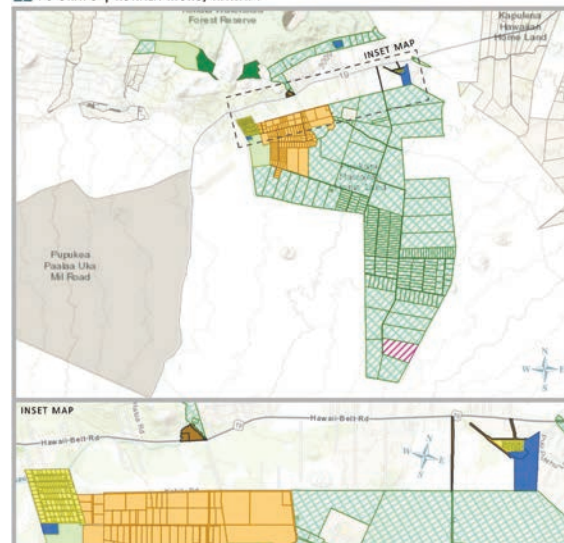
5 LĀLĀMILO | KOHALA MOKU, HAWAII



ROUND 2

6 PU'UKAPU

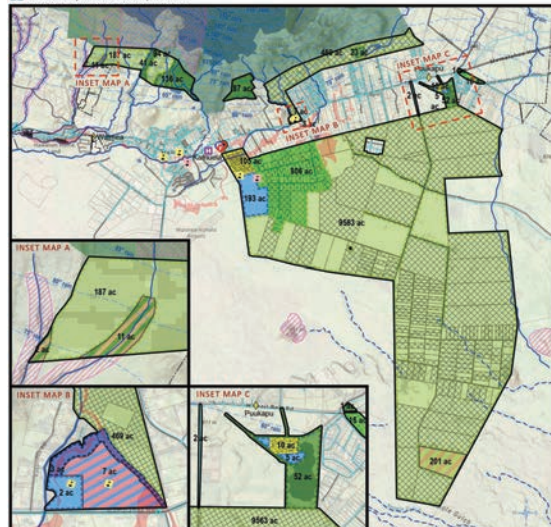
6 PU'UKAPU | KOHALA MOKU, HAWAII



2002 PLAN

6 PU'UKAPU

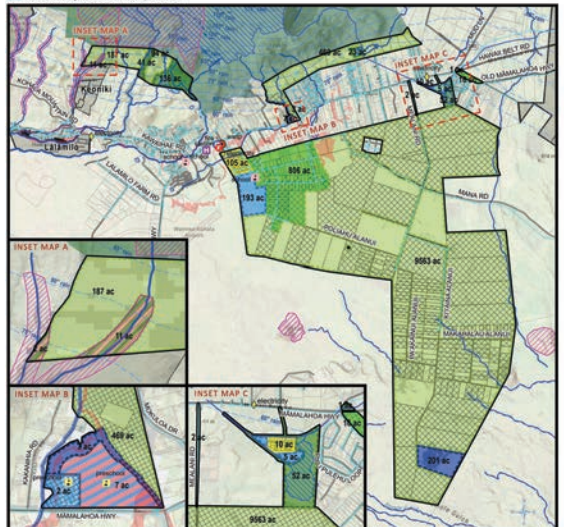
6 PU'UKAPU | KOHALA MOKU, HAWAII



ROUND 1

6 PU'UKAPU

6 PU'UKAPU | KOHALA MOKU, HAWAII



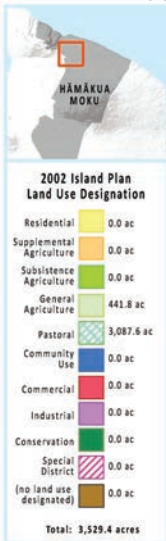
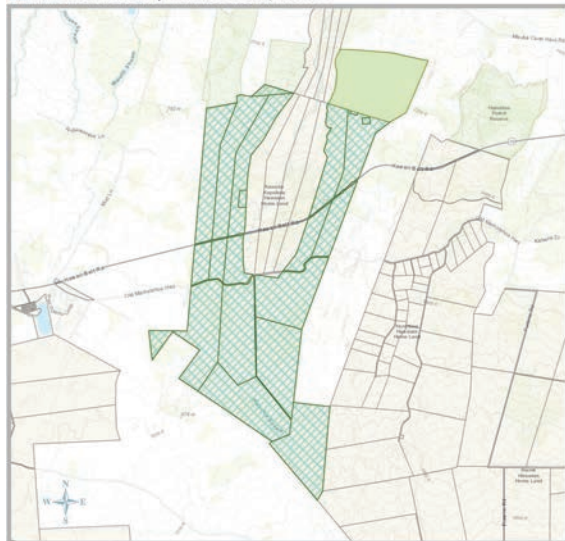
ROUND 2

7

KAMOKU
KAPULENA

KAMOKU-KAPULENA | HĀMĀKUA MOKU, HAWAII

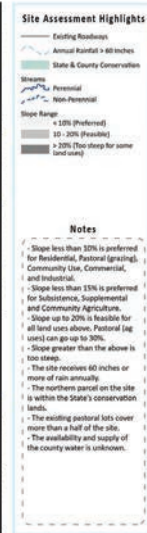
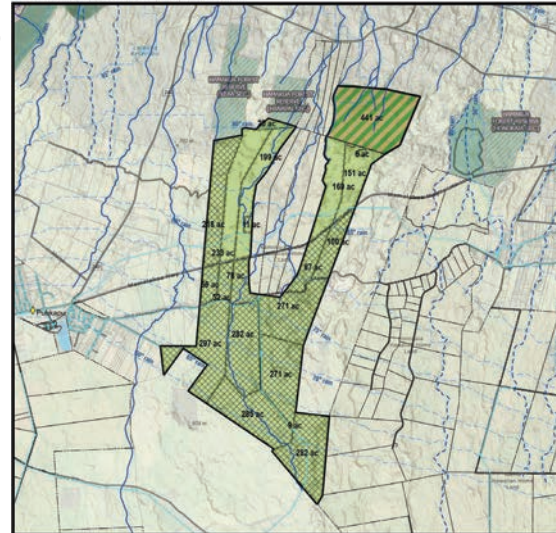
2002 PLAN



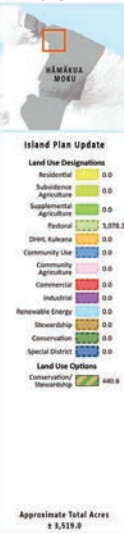
7

KAMOKU
KAPULENA

KAMOKU-KAPULENA | HĀMĀKUA MOKU, HAWAII



ROUND 1

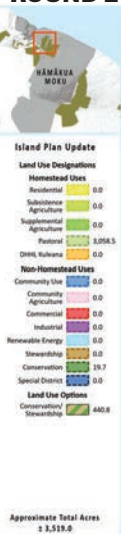
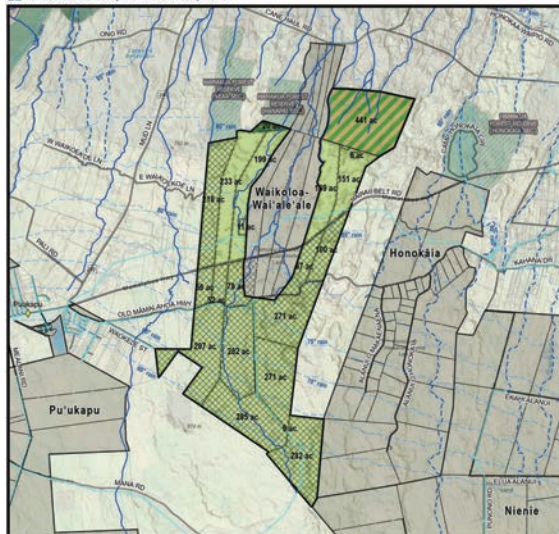


7

KAMOKU
KAPULENA

KAMOKU-KAPULENA | HĀMĀKUA MOKU, HAWAII

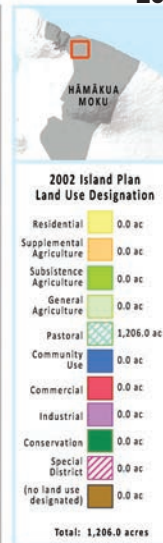
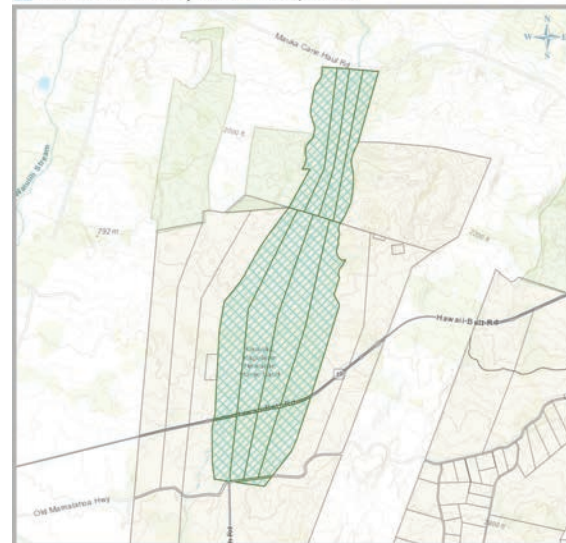
ROUND 2



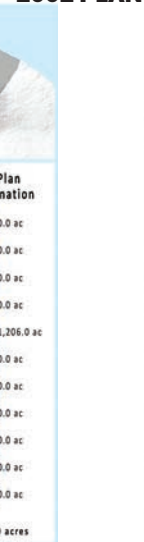
8

WAIKOLOA
WAI'ALE'ALE

WAIKOLOA-WAI'ALE'ALE | HĀMĀKUA MOKU, HAWAII



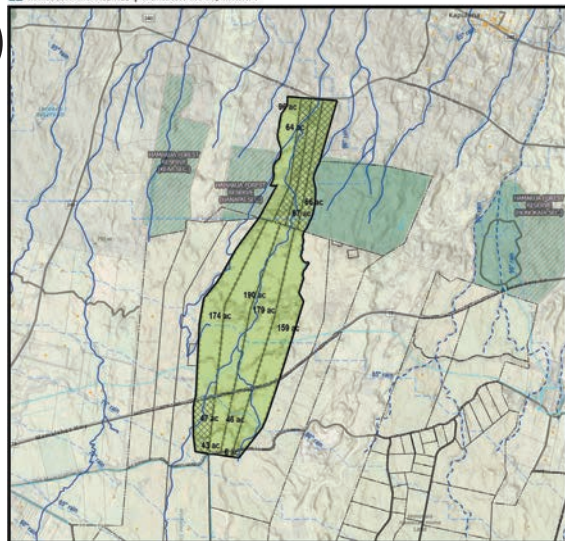
2002 PLAN



8

WAIKOLOA
WAI'ALE'ALE

WAIKOLOA-WAI'ALE'ALE | HĀMĀKUA MOKU, HAWAII

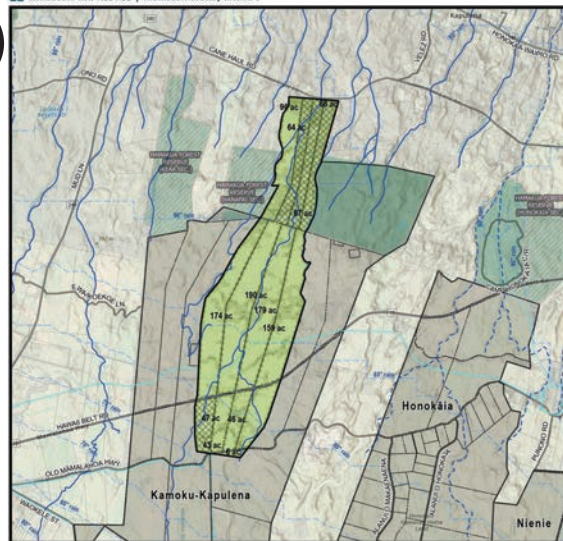


ROUND 1

8

WAIKOLOA
WAI'ALE'ALE

WAIKOLOA-WAI'ALE'ALE | HĀMĀKUA MOKU, HAWAII

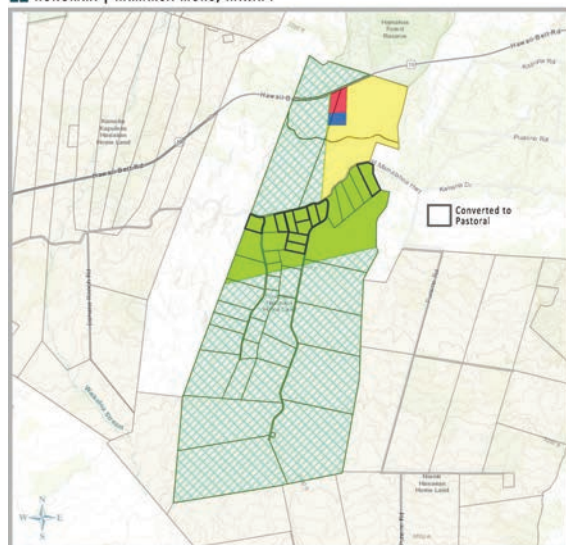


ROUND 2

9

HONOKĀĪA

HONOKĀĪA | HĀMĀKUA MOKU, HAWAII

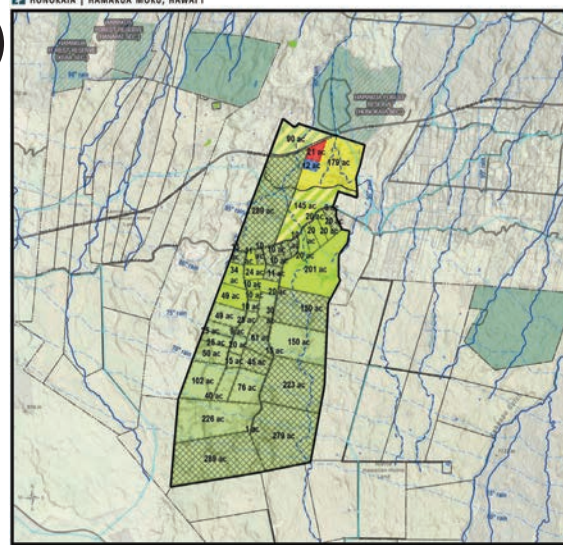


2002 PLAN

9

HONOKĀĪA

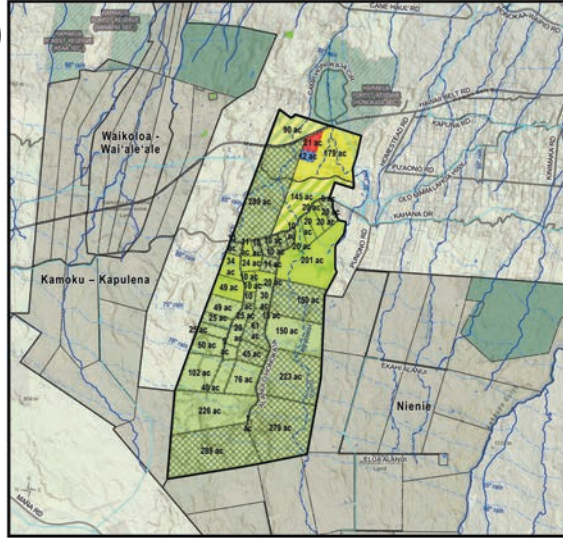
HONOKĀĪA | HĀMĀKUA MOKU, HAWAII



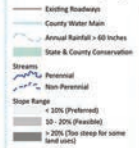
ROUND 1

9 HONOKĀĪA

9 HONOKĀĪA | HĀMĀKUA MOKU, HAWAII



Site Assessment Highlights



Notes

- The site is adjacent to and outside the State's conservation lands.
- The site receives 60 inches or more of rain annually. Catchment may be possible.
- Slope less than 10% is preferred for Residential, Pastoral (grazing), Community Use, Commercial, and Industrial.
- Slope less than 15% is preferred for Subsistence, Supplemental and Community Agriculture.
- Slope up to 20% is feasible for all land uses above. Pastoral (ag uses) can go up to 30%.
- Slope greater than the above is too steep.
- The availability and supply of the county water are uncertain.
- The proposed Residential use depends on water availability.

ROUND 2



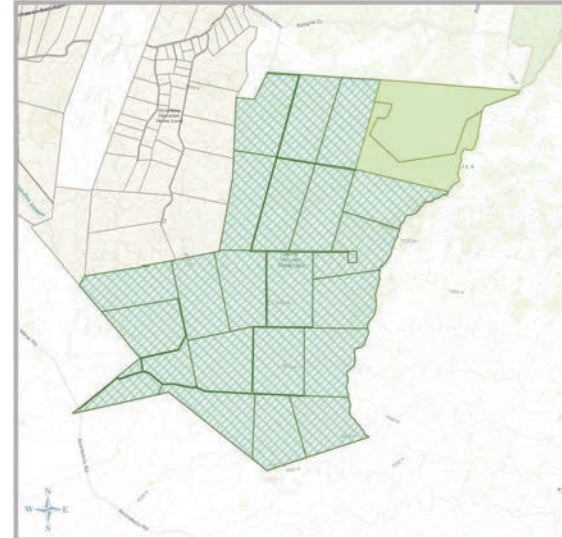
Island Plan Update

Land Use Designations	
Homestead Uses	
Residential	179.1
Subsistence Agriculture	445.1
Supplemental Agriculture	0.0
Pastoral	2,323.5
DMK, Kuleana	0.0
Non-Homestead Uses	
Community Use	12.4
Community Agriculture	0.0
Commercial	22.2
Industrial	0.0
Renewable Energy	0.0
Stewardship	0.0
Conservation	0.0
Special District	0.0
Land Use Options	
Residential/Supplemental Agriculture	144.8
Pastoral/Residential	90.3

Approximate Total Acres ± 3,208.4

10 N I E N I E

10 N I E N I E | HĀMĀKUA MOKU, HAWAII



2002 PLAN



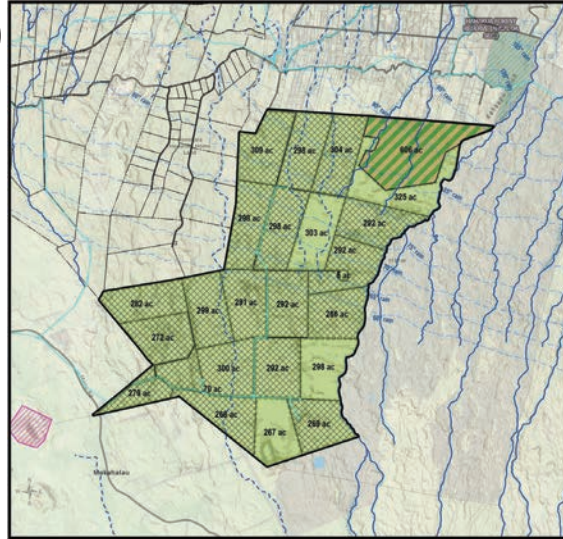
2002 Island Plan Land Use Designation

Residential	0.0 ac
Supplemental Agriculture	0.0 ac
Subsistence Agriculture	0.0 ac
General Agriculture	918.0 ac
Pastoral	6,244.4 ac
Community Use	0.0 ac
Commercial	0.0 ac
Industrial	0.0 ac
Conservation	0.0 ac
Special District	0.0 ac
(no land use designated)	0.0 ac

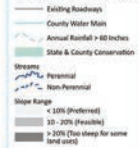
Total: 7,162.4 acres

10 N I E N I E

10 N I E N I E | HĀMĀKUA MOKU, HAWAII



Site Assessment Highlights



Notes

- Slope less than 10% is preferred for Residential, Pastoral (grazing), Community Use, Commercial, and Industrial.
- Slope less than 15% is preferred for Subsistence, Supplemental and Community Agriculture.
- Slope up to 20% is feasible for all land uses above. Pastoral (ag uses) can go up to 30%.
- Slope greater than the above is too steep.
- The northern half of the site receives 60 inches or more of rain annually.
- One parcel at the northwestern corner of the site is within the State's conservation lands.
- The existing pastoral lots occupy most of the site.
- The availability and supply of the county water are uncertain.

ROUND 1



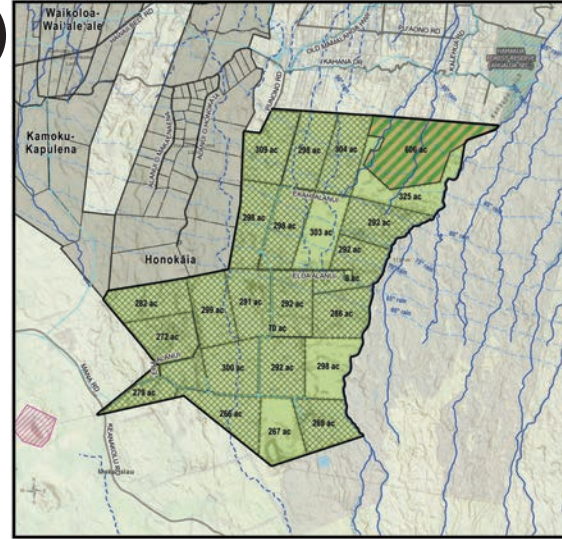
Island Plan Update

Land Use Designations	
Homestead Uses	
Residential	0.0
Subsistence Agriculture	0.0
Supplemental Agriculture	0.0
Pastoral	6,489.3
DMK, Kuleana	0.0
Non-Homestead Uses	
Community Use	0.0
Community Agriculture	0.0
Commercial	0.0
Industrial	0.0
Renewable Energy	0.0
Stewardship	0.0
Conservation	0.0
Special District	0.0
Land Use Options	
Conservation/Stewardship	606.4

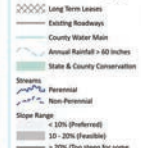
Approximate Total Acres ± 7,095.8

10 N I E N I E

10 N I E N I E | HĀMĀKUA MOKU, HAWAII



Site Assessment Highlights



Notes

- The northern half of the site receives 60 inches or more of rain annually. Catchment may be possible.
- The 606-acre parcel at the northwestern corner of the site is within the State's conservation lands.
- Within the conservation area, there are opportunities for renewable generation through forestry.
- Slope less than 10% is preferred for Residential, Pastoral (grazing), Community Use, Commercial, and Industrial.
- Slope less than 15% is preferred for Subsistence, Supplemental and Community Agriculture.
- Slope up to 20% is feasible for all land uses above. Pastoral (ag uses) can go up to 30%.
- Slope greater than the above is too steep.
- The availability and supply of the county water are uncertain.

ROUND 2

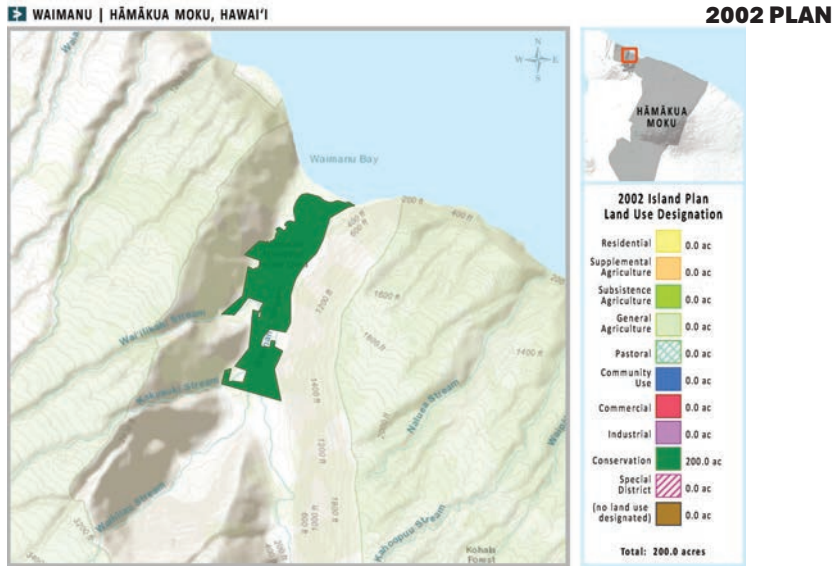


Island Plan Update

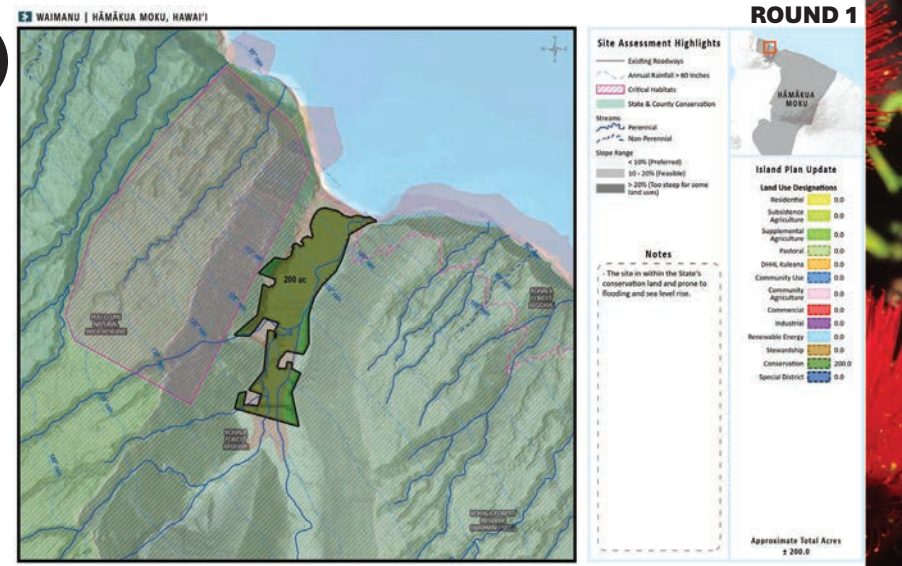
Land Use Designations	
Homestead Uses	
Residential	0.0
Subsistence Agriculture	0.0
Supplemental Agriculture	0.0
Pastoral	6,489.3
DMK, Kuleana	0.0
Non-Homestead Uses	
Community Use	0.0
Community Agriculture	0.0
Commercial	0.0
Industrial	0.0
Renewable Energy	0.0
Stewardship	0.0
Conservation	0.0
Special District	0.0
Land Use Options	
Conservation/Stewardship	606.4

Approximate Total Acres ± 7,095.8

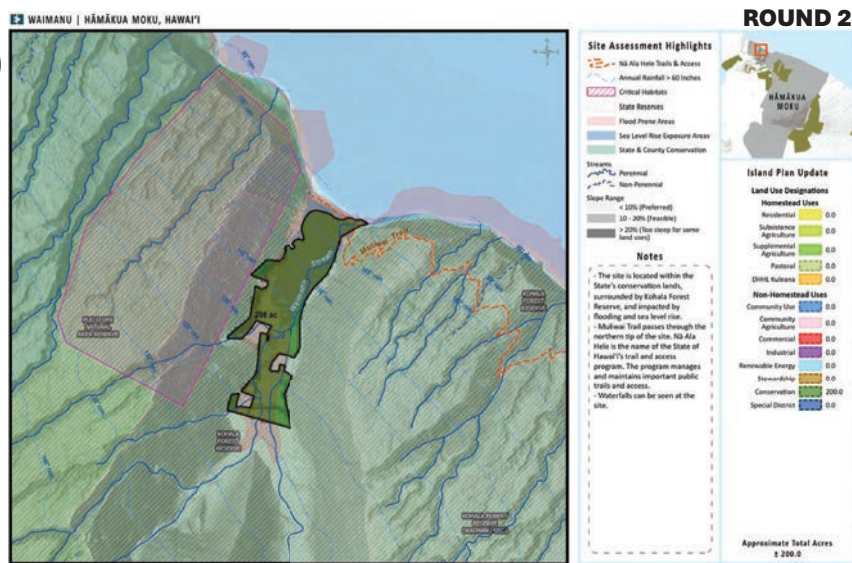
11 WAIMANU



11 WAIMANU



11 WAIMANU



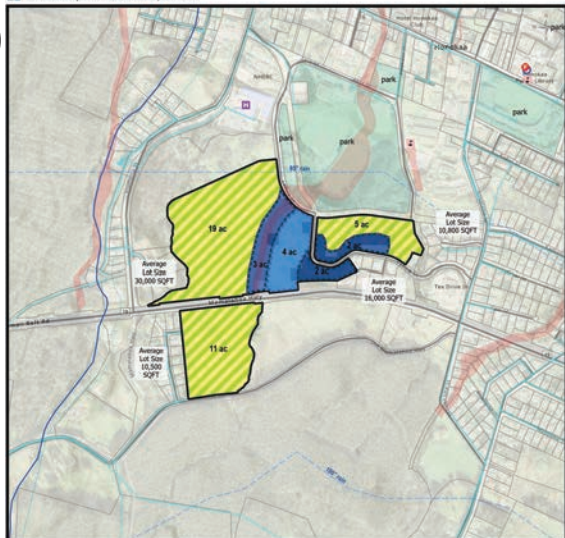
12 HONOKA'A

- New land acquisition
- Purchased with Act 279 funding
- Proposed residential use of lands
- 296 single family homes



12 HONOKA'A

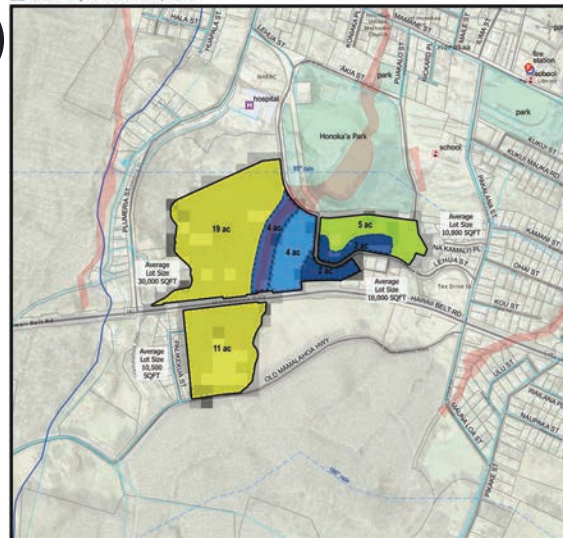
12 HONOKA'A | HĀMĀKUA MOKU, HAWAII'



ROUND 1

12 HONOKA'A

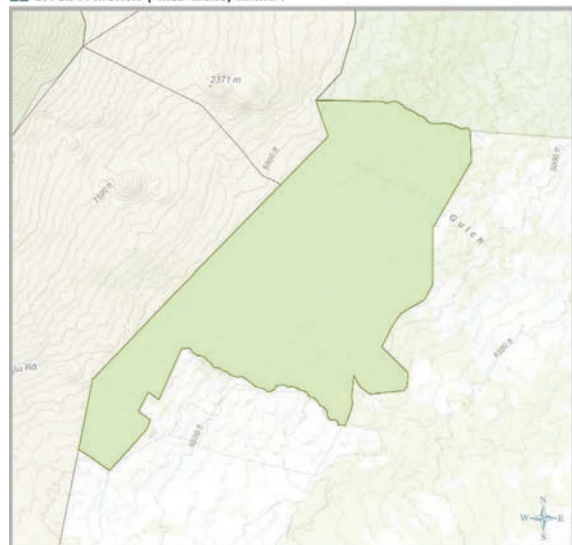
12 HONOKA'A | HĀMĀKUA MOKU, HAWAII'



ROUND 2

13 MAUNA LEGACY LANDS

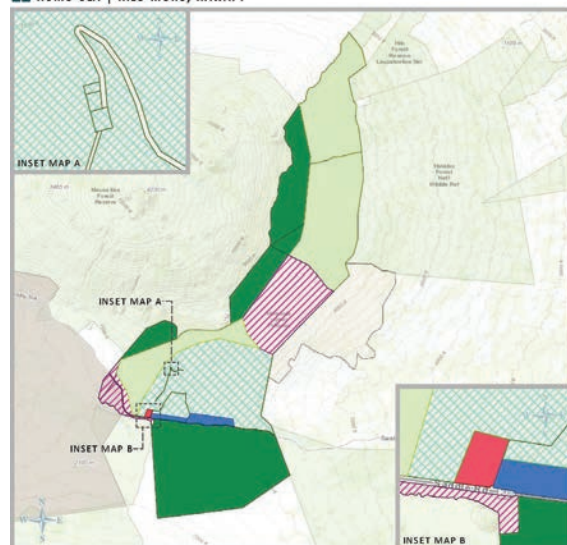
13 UPPER PI'ITHONUA | HILO MOKU, HAWAII'



2002 PLAN

13 MAUNA LEGACY LANDS

13 HUMU'ULA | HILO MOKU, HAWAII'

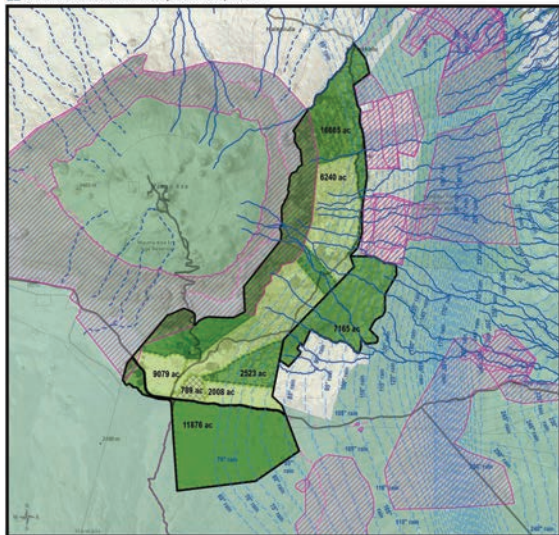


2002 PLAN

13

MAUNA
LEGACY
LANDS

3 HUMU'ULA & UPPER P'I'IHONUA | HILO MOKU, HAWAII



Site Assessment Highlights

- Long Term Leases
- Existing Roadways
- Annual Rainfall > 60 inches
- State & County Conservation
- Critical Habitats
- Streams
- Potential
- Non-Potential
- Slope Range
- < 10% (Preferred)
- 10 - 20% (Feasible)
- > 20% (Too steep for some land uses)

ROUND 1



Island Plan Update

Land Use Designations	Approximate Total Acres
Residential	0.0
Subsistence Agriculture	0.0
Supplemental Agriculture	0.0
Pastoral	38,125.7
CHHS, Kuleana	0.0
Community Use	0.0
Community Agriculture	0.0
Commercial	0.0
Industrial	0.0
Renewable Energy	0.0
Stewardship	0.0
Conservation	38,128.1
Special District	0.0

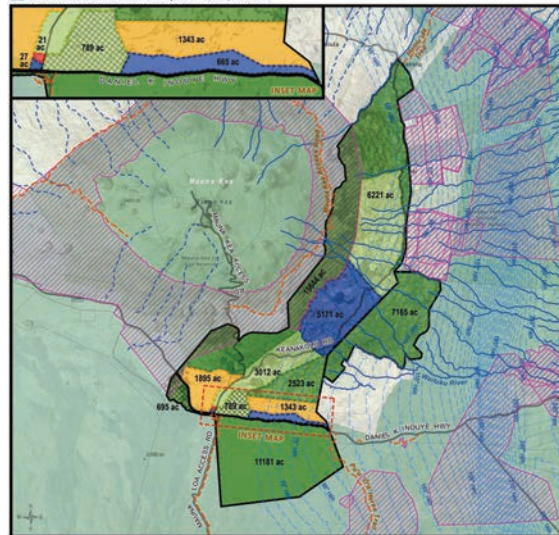
- #### Notes
- Slope less than 10% is preferred for Residential, Pastoral (grazing), Community Use, Commercial, and Industrial.
 - Slope less than 15% is preferred for Subsistence, Supplemental and Community Agriculture.
 - Slope up to 20% is feasible for all land uses above. Pastoral (grazing) can go up to 30%.
 - Slope greater than the above is too steep.
 - This map was drafted based on the 'Ala Moana Legacy Program land use map.
 - Some portions of the site are in the State and County's Conservation lands and also in the critical habitat areas for endangered plants and honeycreepers.
 - The 780 ac parcel is currently leased for pastoral use.

Approximate Total Acres
± 54,343.8

13

MAUNA
LEGACY
LANDS

3 HUMU'ULA & UPPER P'I'IHONUA | HILO MOKU, HAWAII



Site Assessment Highlights

- Long Term Leases
- Existing Roadways
- NA Ala Hale Trails & Access
- Annual Rainfall > 60 inches
- State & County Conservation
- Critical Habitats
- Streams
- Potential
- Non-Potential
- Slope Range
- < 10% (Preferred)
- 10 - 20% (Feasible)
- > 20% (Too steep for some land uses)

ROUND 2



Island Plan Update

Land Use Designations	Approximate Total Acres
Homestead Uses	0.0
Residential	0.0
Subsistence Agriculture	0.0
Supplemental Agriculture	0.0
Pastoral	38,021.2
CHHS, Kuleana	3,298.1
Non-Homestead Uses	0.0
Community Use	0.0
Community Agriculture	0.0
Commercial	21.1
Industrial	0.0
Renewable Energy	0.0
Stewardship	0.0
Conservation	37,206.9
Special District	3,863.2

- #### Notes
- This map was drafted based on the 'Ala Moana Legacy Program land use map. The program seeks opportunities of self-sustainable rural-development homesteads along Daniel K Inouye Hwy (former Saddle Rd), including land for 100 to 200 homestead sites, land for alternative energy and land for subsistence farming. Roads would remain unpaved and water would be catchment. Basic electrical and telecommunication infrastructure would be available.
 - The site is partially within the State and County's conservation lands and also in the critical habitat areas for endangered Hawaiian honeycreepers.
 - A few trails are near the site. NA Ala Hale is the name of the State of Hawaii's trail and access program. The program manages and maintains important public trails and access.
 - Two existing leases are on the site: the 780 ac pastoral lease and the 695 ac military lease.
 - The existing game shrub area (5,173 acres) and hard lava surfaces along Daniel K Inouye Hwy are identified as Special District.

Approximate Total Acres
± 54,350.5

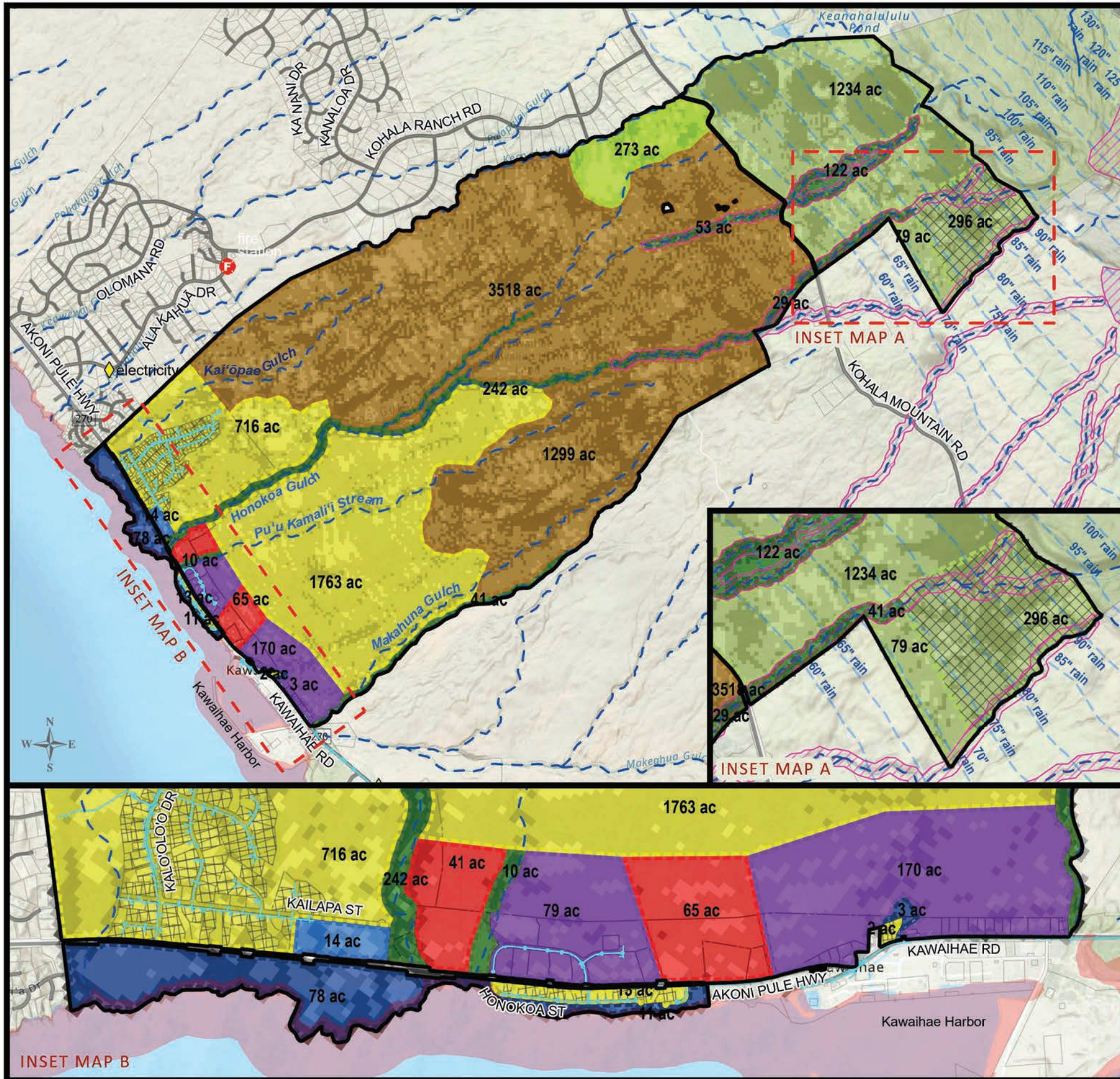
Next Steps



For more information or to participate online after this meeting, visit the project website at:
<https://dhhl.hawaii.gov/po-hawaii-island-plan-update/>

DEPARTMENT OF HAWAIIAN HOME LANDS
HAWAI'I ISLAND PLAN UPDATE
BENEFICIARY MEETING, ROUND 2
KOHALA & HĀMĀKUA – KŪHIŌ HALE DHHL WEST HAWAI'I OFFICE
APRIL 10, 2025
ATTACHMENTS TO SUMMARY

ATTACHMENT B:
Land Use Designation Round 2 Maps

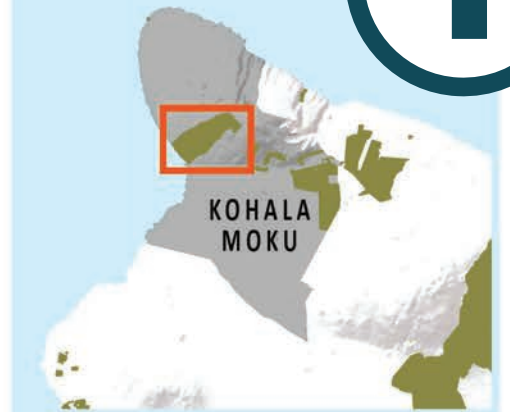


Site Assessment Highlights

- Long Term Leases
- Existing Roadways
- County Water Main
- Annual Rainfall > 60 Inches
- Flood Prone Areas
- Critical Habitats
- Streams**
 - Perennial
 - Non-Perennial
- Slope Range**
 - < 10% (Preferred)
 - 10 - 20% (Feasible)
 - > 20% (Too steep for some land uses)

Notes

- Slope less than 10% is preferred for Residential, Pastoral (grazing), Community Use, Commercial, and Industrial.
- Slope less than 15% is preferred for Subsistence, Supplemental and Community Agriculture.
- Slope up to 20% is feasible for all land uses above. Pastoral (ag uses) can go up to 30%.
- Slope greater than the above is too steep.
- Critical habitat for an endangered plant, blunt chaff flower (a many-branched shrub) is located along the streams.
- The residential and ag uses in mauka need infrastructure & water supply.



Island Plan Update

Land Use Designations

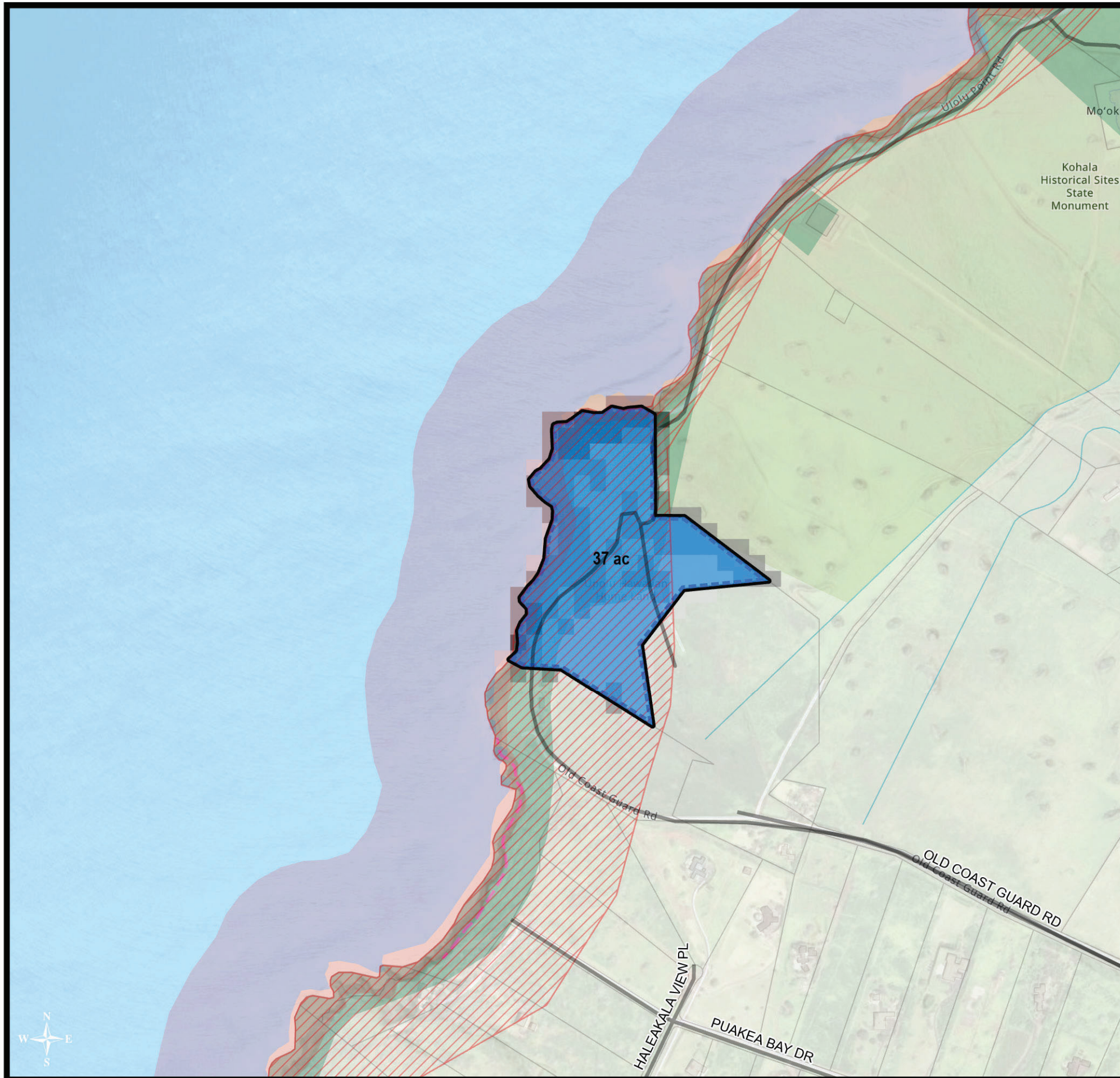
Homestead Uses

Residential	2,493.9
Subsistence Agriculture	273.4
Supplemental Agriculture	0.0
Pastoral	1,609.0
DHHL Kuleana	0.0

Non-Homestead Uses

Community Use	14.4
Community Agriculture	0.0
Commercial	106.0
Industrial	248.8
Renewable Energy	0.0
Stewardship	4,817.5
Conservation	536.9
Special District	91.9

Approximate Total Acres
± 10,191.8



Site Assessment Highlights

- Existing Roadways
- Tsunami Evacuation Zone
- Flood Prone Areas
- Slope Range
 - < 10% (Preferred)
 - 10 - 20% (Feasible)
 - > 20% (Too steep for some land uses)

Notes

- Slope less than 10% is preferred for Residential, Pastoral (grazing), Community Use, Commercial, and Industrial.
- Slope less than 15% is preferred for Subsistence, Supplemental and Community Agricultures.
- Slope up to 20% is feasible for all land uses above. Pastoral (ag uses) can go up to 30%.
- Slope greater than the above is too steep.
- The site is partially in flood prone area and mostly in tsunami evacuation area.



Island Plan Update

Land Use Designations

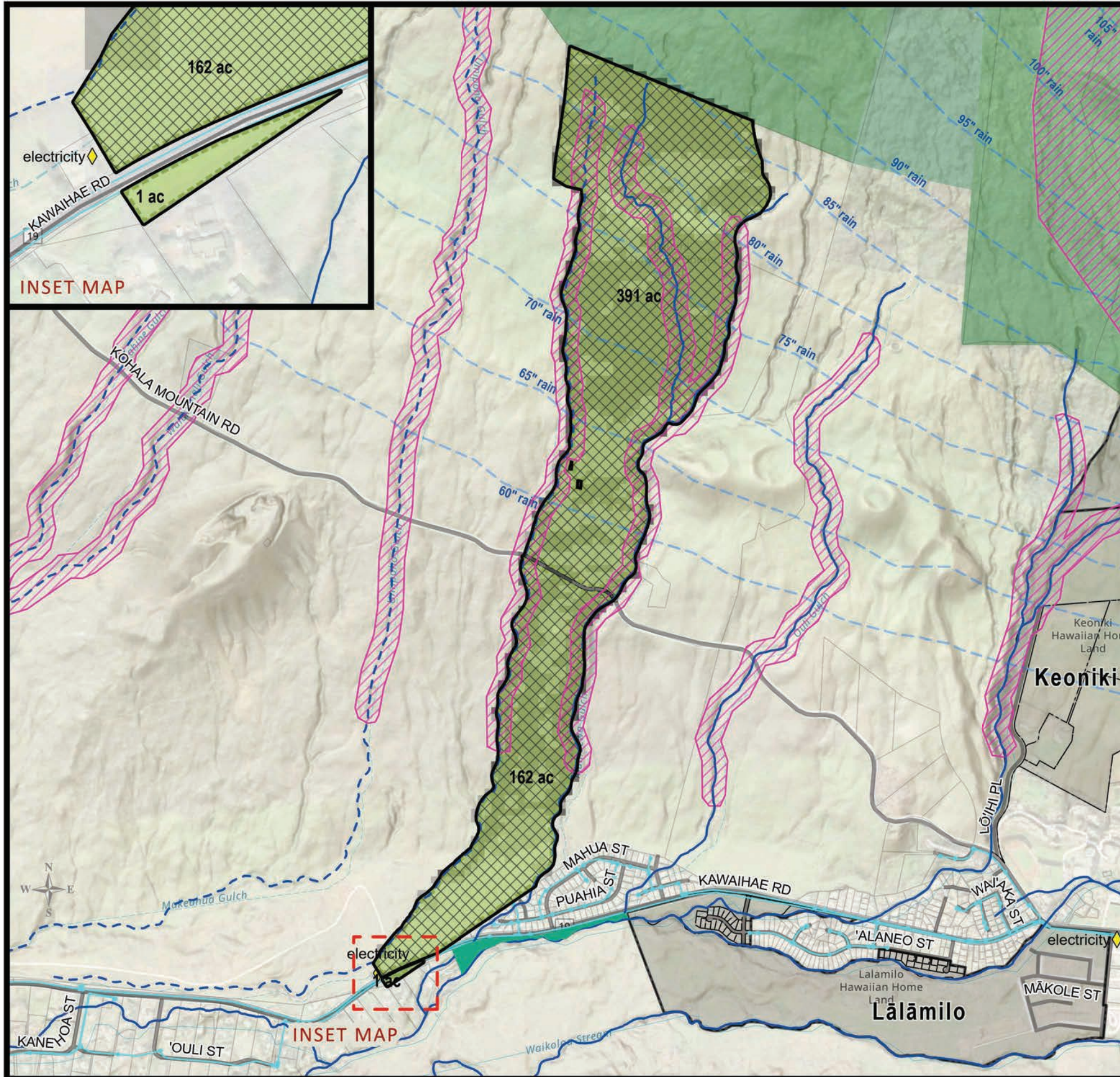
Homestead Uses

Residential	0.0
Subsistence Agriculture	0.0
Supplemental Agriculture	0.0
Pastoral	0.0
DHHL Kuleana	0.0

Non-Homestead Uses

Community Use	37.4
Community Agriculture	0.0
Commercial	0.0
Industrial	0.0
Renewable Energy	0.0
Stewardship	0.0
Conservation	0.0
Special District	0.0

Approximate Total Acres
± 37.4



Site Assessment Highlights

- Long Term Leases
- Existing Roadways
- County Water Main
- Annual Rainfall > 60 Inches
- Critical Habitats
- State & County Conservation
- Streams**
 - Perennial
 - Non-Perennial
- Slope Range**
 - < 10% (Preferred)
 - 10 - 20% (Feasible)
 - > 20% (Too steep for some land uses)

Notes

- Slope less than 10% is preferred for Residential, Pastoral (grazing), Community Use, Commercial, and Industrial.
- Slope less than 15% is preferred for Subsistence, Supplemental and Community Agriculture.
- Slope up to 20% is feasible for all land uses above. Pastoral (ag uses) can go up to 30%.
- Slope greater than the above is too steep.
- Critical habitat for an endangered plant, blunt chaff flower (a many-branched shrub) is located along the stream.
- The mauka portion receives 60 inches or more of rain annually. Catchment may be possible.



Island Plan Update

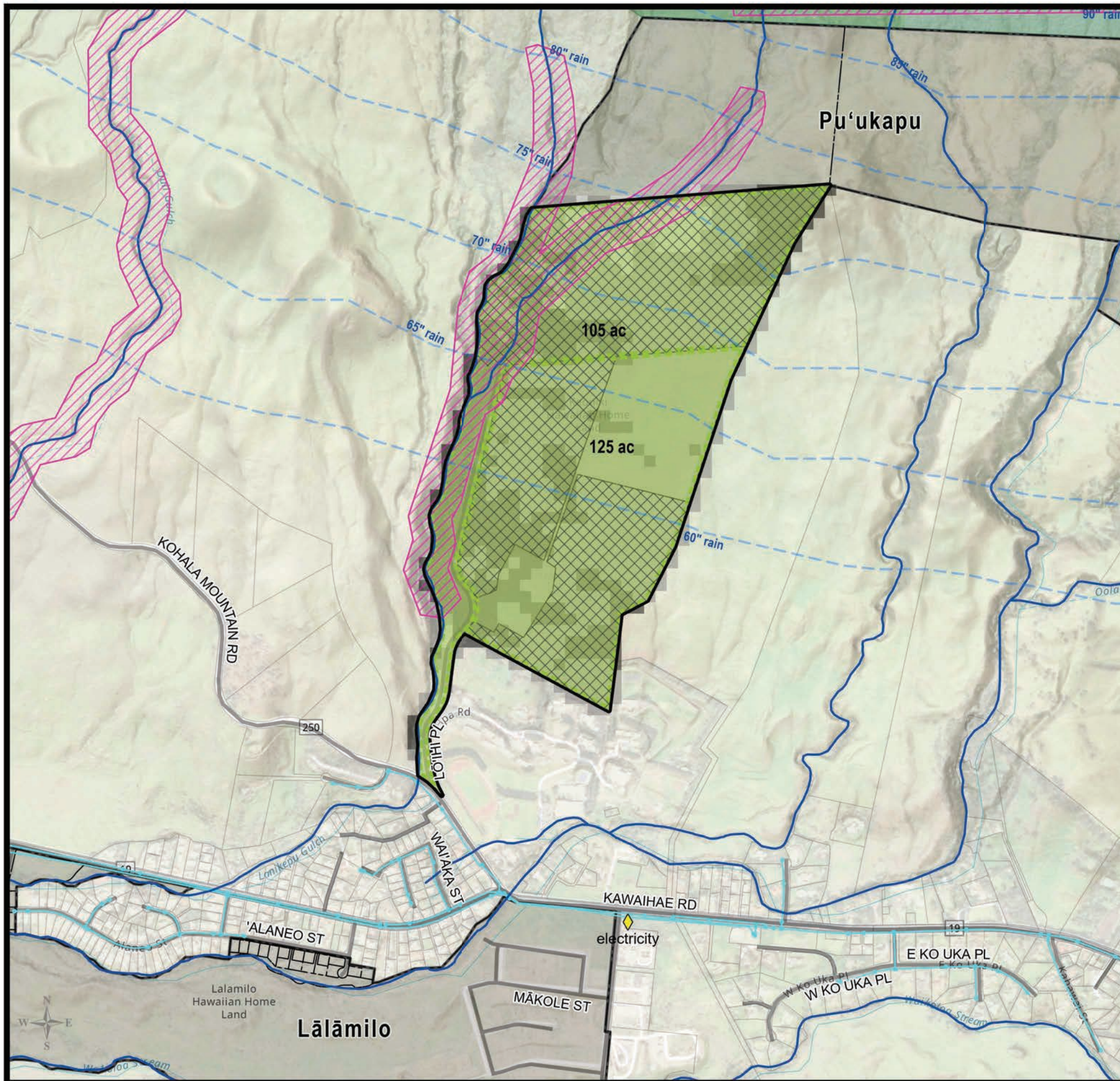
Homestead Uses

Residential	0.0
Subsistence Agriculture	0.0
Supplemental Agriculture	0.0
Pastoral	553.7
DHHL Kuleana	0.0

Non-Homestead Uses

Community Use	0.0
Community Agriculture	0.0
Commercial	0.0
Industrial	0.0
Renewable Energy	0.0
Stewardship	0.0
Conservation	0.0
Special District	0.0

Approximate Total Acres
± 553.7

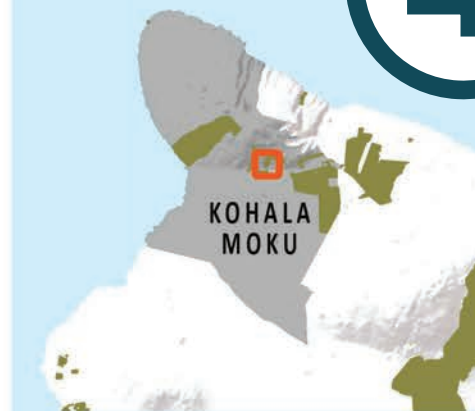


Site Assessment Highlights

- Long Term Leases
- Existing Roadways
- County Water Main
- Annual Rainfall > 60 Inches
- Critical Habitats
- Streams**
 - Perennial
 - Non-Perennial
- Slope Range**
 - < 10% (Preferred)
 - 10 - 20% (Feasible)
 - > 20% (Too steep for some land uses)

Notes

- Slope less than 10% is preferred for Residential, Pastoral (grazing), Community Use, Commercial, and Industrial.
- Slope less than 15% is preferred for Subsistence, Supplemental and Community Agriculture.
- Slope up to 20% is feasible for all land uses above. Pastoral (ag uses) can go up to 30%.
- Slope greater than the above is too steep.
- Critical habitat for an endangered plant, blunt chaff flower (a many-branched shrub) is located along the stream.
- The mauka portion receives 60 inches or more of rain annually. Catchment may be possible.



Island Plan Update

Land Use Designations

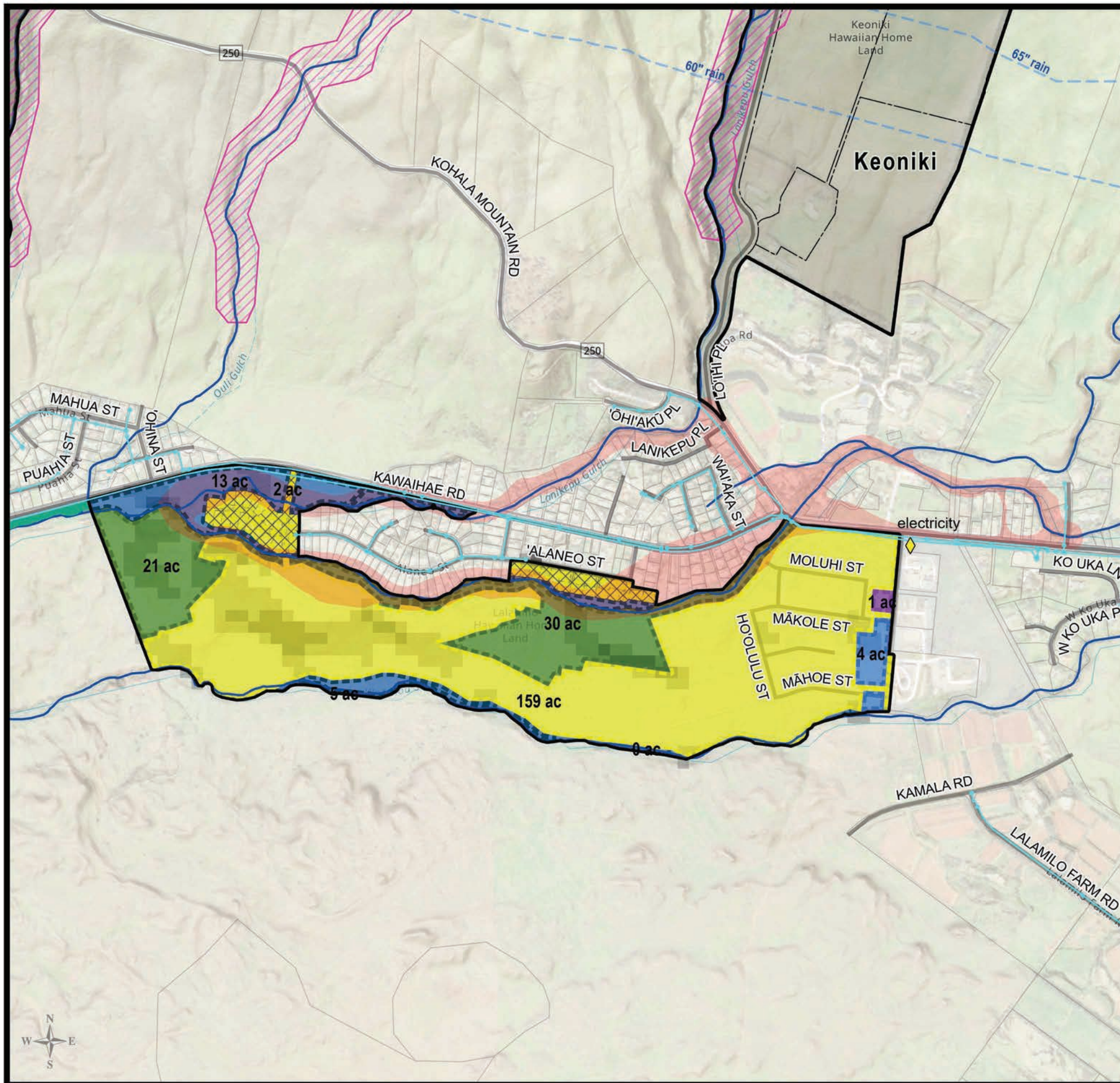
Homestead Uses

Residential		0.0
Subsistence Agriculture		0.0
Supplemental Agriculture		0.0
Pastoral		230.2
DHHL Kuleana		0.0

Non-Homestead Uses

Community Use		0.0
Community Agriculture		0.0
Commercial		0.0
Industrial		0.0
Renewable Energy		0.0
Stewardship		0.0
Conservation		0.0
Special District		0.0

Approximate Total Acres
± 230.2

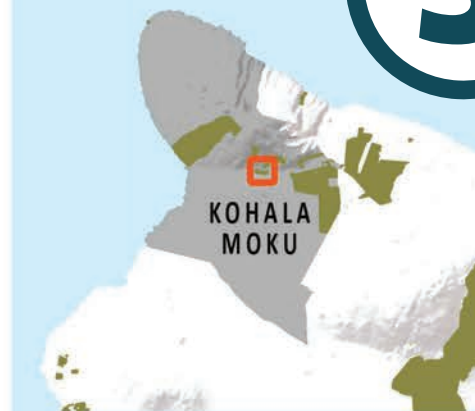


Site Assessment Highlights

- Long Term Leases
- Existing Roadways
- County Water Main
- Annual Rainfall > 60 Inches
- Flood Prone Areas
- Critical Habitats
- Streams**
 - Perennial
 - Non-Perennial
- Slope Range**
 - < 10% (Preferred)
 - 10 - 20% (Feasible)
 - > 20% (Too steep for some land uses)

Notes

- Lālāmilo tract has a plan for development and is under construction by phase.
- The land along the stream is prone to flooding when it rains. FEMA designates the land in Flood Zone A. A refers to low-lying areas close to streams, lakes, and other large bodies of water. Homeowners of properties in Flood Zone A with mortgages from federally regulated lenders are required to purchase flood insurance.



Island Plan Update

Land Use Designations

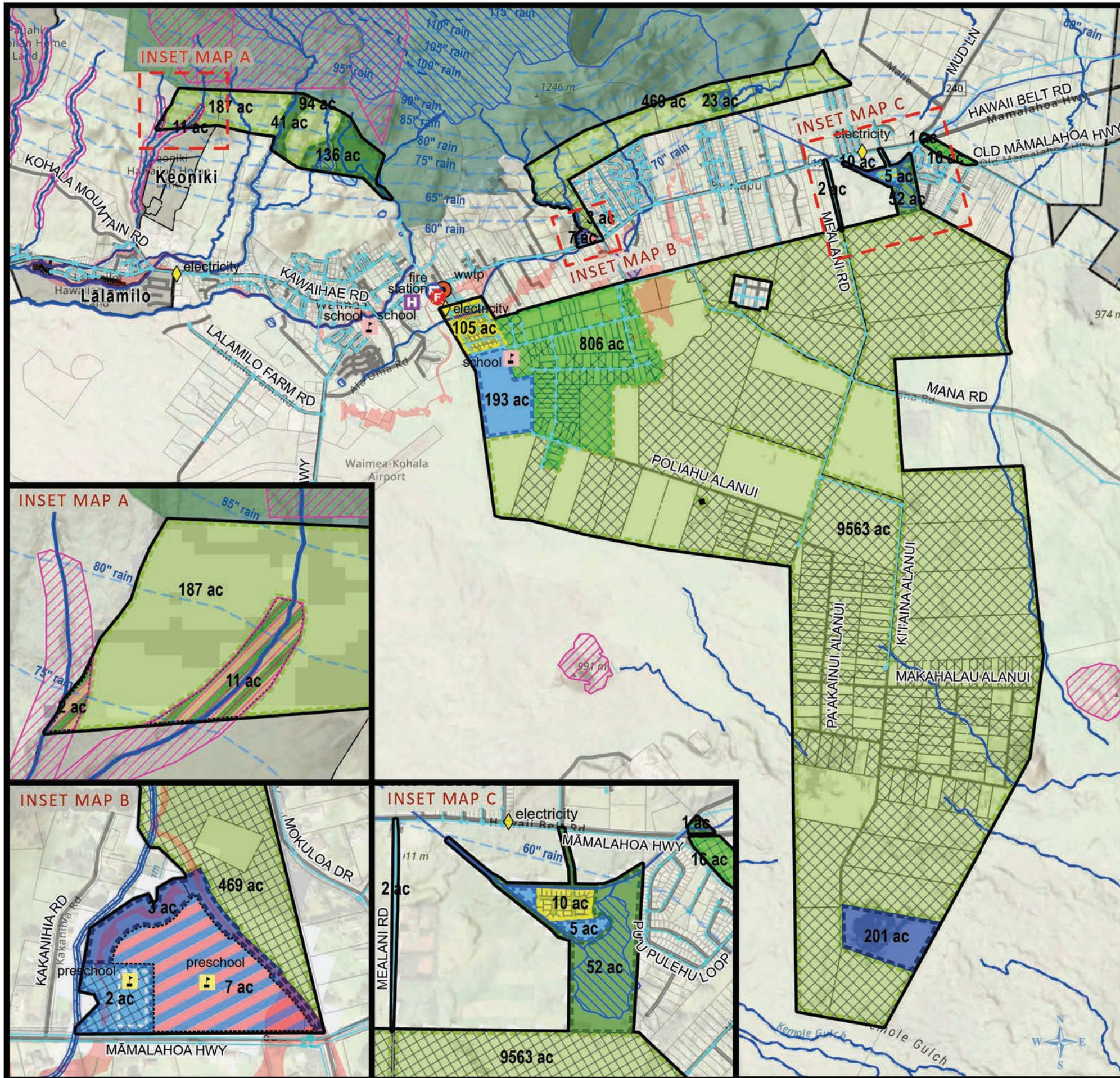
Homestead Uses

Residential		171.0
Subsistence Agriculture		0.0
Supplemental Agriculture		0.0
Pastoral		0.0
DHHL Kuleana		0.0

Non-Homestead Uses

Community Use		4.5
Community Agriculture		0.0
Commercial		0.0
Industrial		0.9
Renewable Energy		0.0
Stewardship		0.0
Conservation		51.0
Special District		26.1

Approximate Total Acres
± 253.5

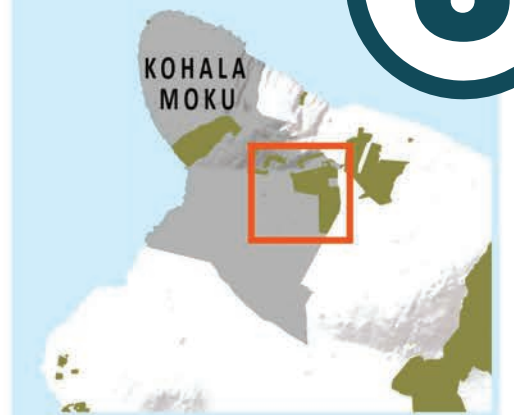


Site Assessment Highlights

- Long Term Leases
- Existing Roadways
- County Water Main
- Annual Rainfall > 60 Inches
- Flood Prone Areas
- Wetlands
- Critical Habitats
- Streams**
 - Perennial
 - Non-Perennial
- Slope Range**
 - < 10% (Preferred)
 - 10 - 20% (Feasible)
 - > 20% (Too steep for some land uses)

Notes

- Slope less than 10% is preferred for Residential, Pastoral (grazing), Community Use, Commercial, and Industrial.
- Slope less than 15% is preferred for Subsistence, Supplemental and Community Agriculture.
- Slope up to 20% is feasible for all land uses above. Pastoral (ag uses) can go up to 30%.
- Slope greater than the above is too steep.
- Critical habitat for an endangered plant, blunt chaff flower (a many-branched shrub) is located along the stream in Inset Map A.
- The existing water tanks and reservoirs are classified as wetlands and designated as Conservation.
- The recent aerial photo showed existing school uses in Inset Map B.
- The 2-ac strip in Inset Map C appears to be a road. The land use needs to be determined or removed from the study area.



Island Plan Update

Land Use Designations

Homestead Uses

Residential	114.4
Subsistence Agriculture	0.0
Supplemental Agriculture	822.9
Pastoral	10,312.1
DHHL Kuleana	0.0

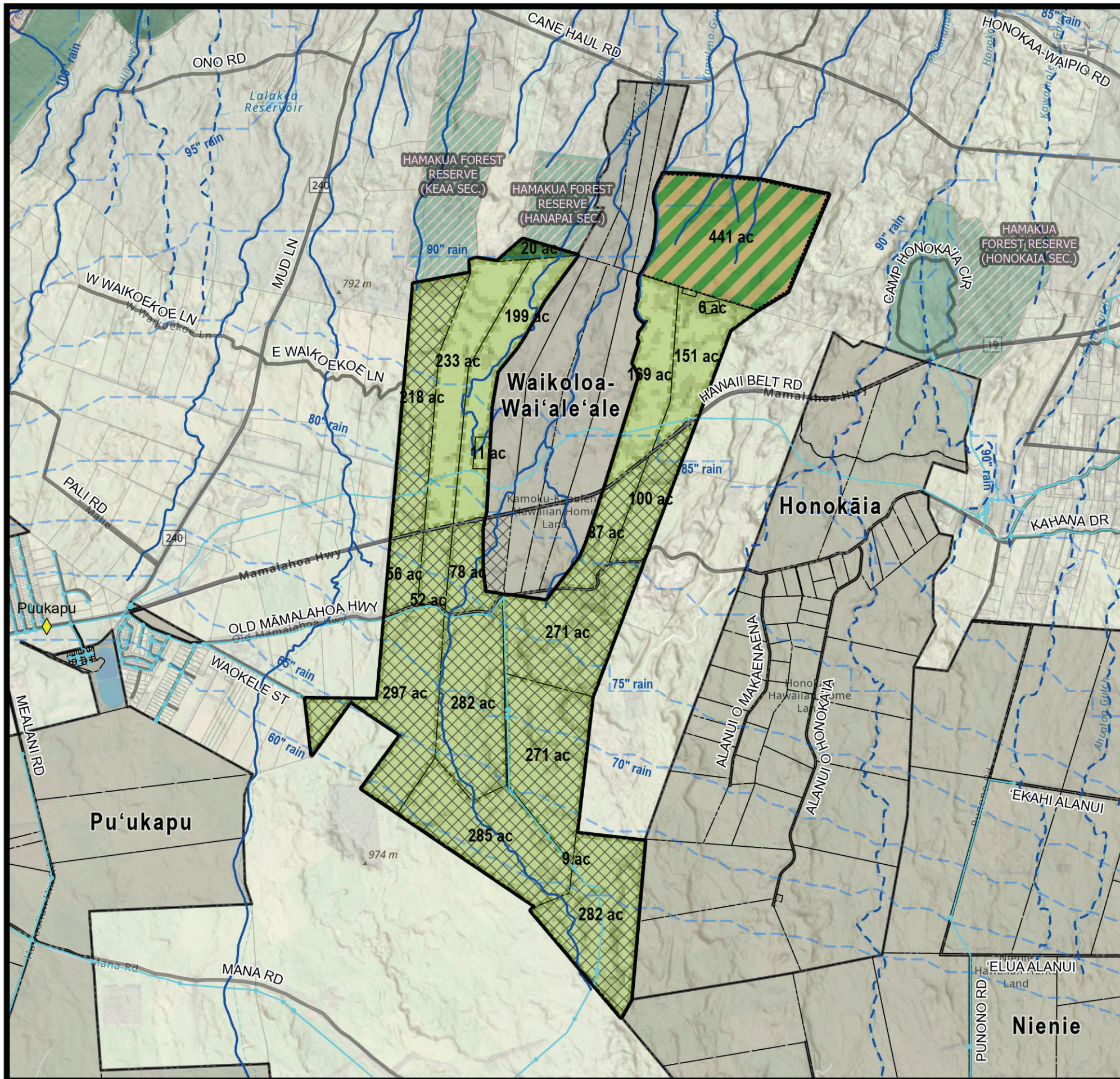
Non-Homestead Uses

Community Use	201.5
Community Agriculture	0.0
Commercial	0.0
Industrial	0.0
Renewable Energy	0.0
Stewardship	0.0
Conservation	252.5
Special District	203.3

Land Use Options

Community Use/Commercial	6.6
Conservation/Stewardship	12.8
To Be Determined	2.0

Approximate Total Acres
± 11,928.1

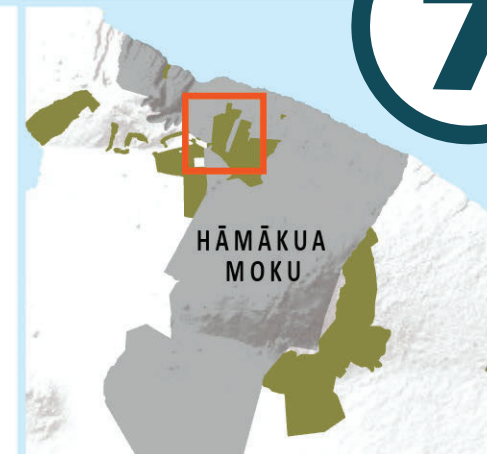


Site Assessment Highlights

- Long Term Leases
 - Existing Roadways
 - County Water Main
 - Annual Rainfall > 60 Inches
 - State & County Conservation
- Streams
- Perennial
 - Non-Perennial
- Slope Range
- < 10% (Preferred)
 - 10 - 20% (Feasible)
 - > 20% (Too steep for some land uses)

Notes

- The 441-ac and 20-ac lands to the north are within the State's conservation lands.
- The site receives 60 inches or more of rain annually. Catchment may be possible.
- Slope less than 10% is preferred for Residential, Pastoral (grazing), Community Use, Commercial, and Industrial.
- Slope less than 15% is preferred for Subsistence, Supplemental and Community Agriculture.
- Slope up to 20% is feasible for all land uses above. Pastoral (ag uses) can go up to 30%.
- Slope greater than the above is too steep.
- The availability and supply of the county water are uncertain.



Island Plan Update

Land Use Designations

Homestead Uses

Residential	0.0
Subsistence Agriculture	0.0
Supplemental Agriculture	0.0
Pastoral	3,058.5
DHHL Kuleana	0.0

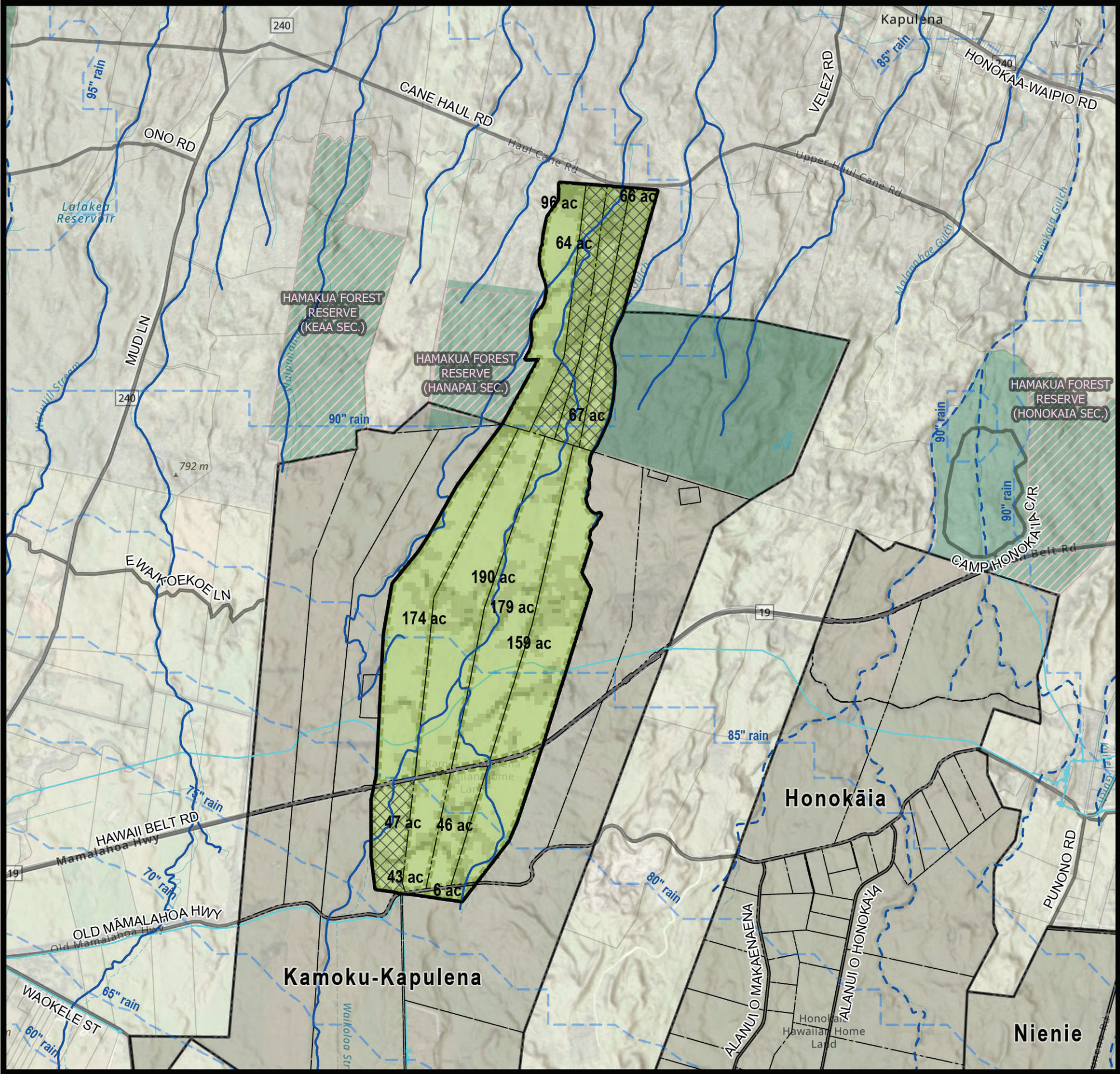
Non-Homestead Uses

Community Use	0.0
Community Agriculture	0.0
Commercial	0.0
Industrial	0.0
Renewable Energy	0.0
Stewardship	0.0
Conservation	19.7
Special District	0.0

Land Use Options

Conservation/Stewardship	440.8
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Approximate Total Acres
± 3,519.0



Site Assessment Highlights

- Existing Roadways
- Annual Rainfall > 60 Inches
- State & County Conservation
- Streams
 - Perennial
 - Non-Perennial
- Slope Range
 - < 10% (Preferred)
 - 10 - 20% (Feasible)
 - > 20% (Too steep for some land uses)

Notes

- The site is adjacent and outside the State's conservation lands.
- The soil rating at the site is low for ag uses.
- There are several existing pastoral lots.
- The site receives 80 inches or more of rain annually. Catchment may be possible.
- Slope less than 10% is preferred for Residential, Pastoral (grazing), Community Use, Commercial, and Industrial.
- Slope less than 15% is preferred for Subsistence, Supplemental and Community Agriculture.
- Slope up to 20% is feasible for all land uses above. Pastoral (ag uses) can go up to 30%.
- Slope greater than the above is too steep.
- The availability and supply of the county water are uncertain.



Island Plan Update

Land Use Designations

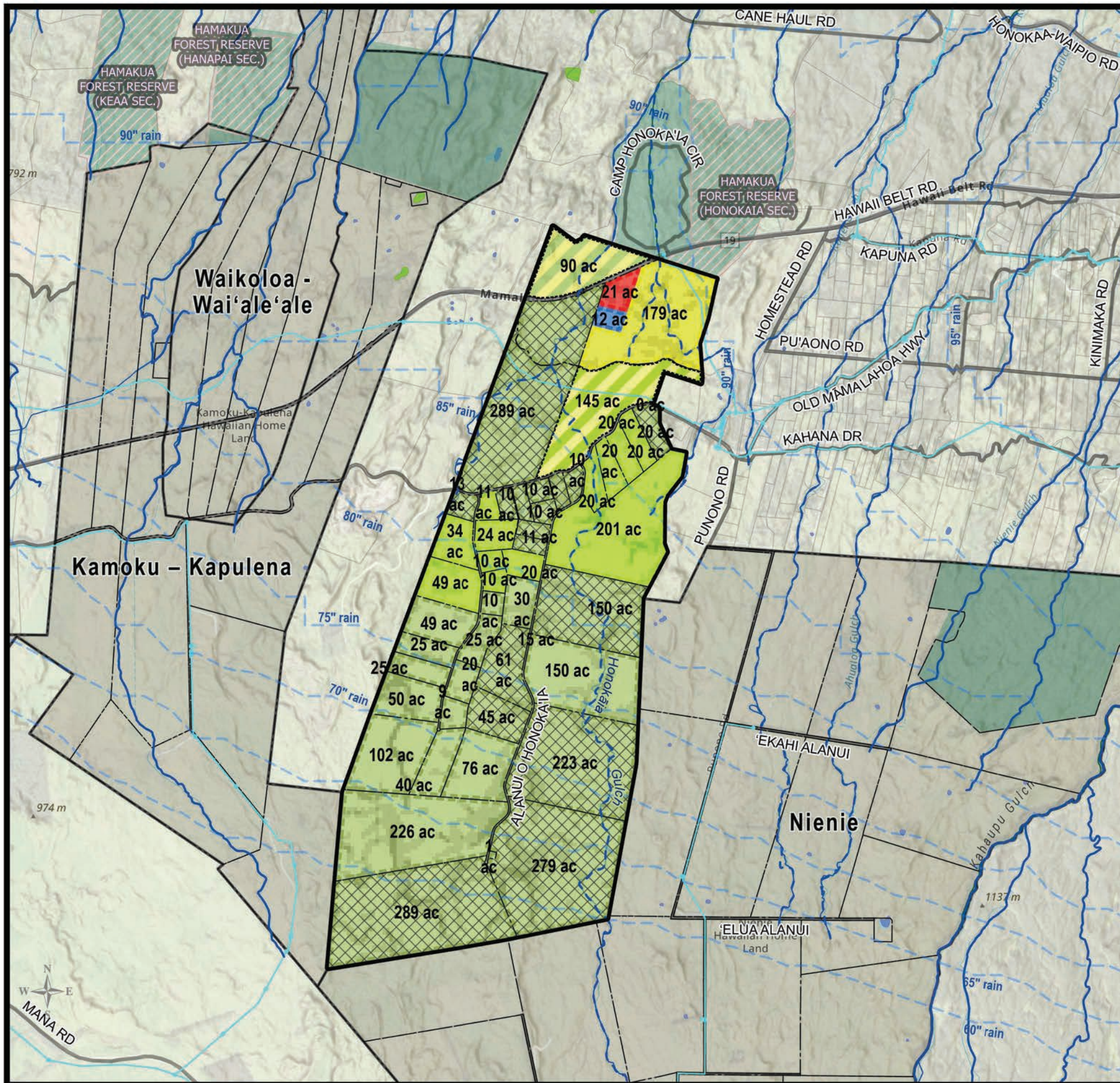
Homestead Uses

Residential	0.0
Subsistence Agriculture	0.0
Supplemental Agriculture	0.0
Pastoral	1206.0
DHHL Kuleana	0.0

Non-Homestead Uses

Community Use	0.0
Community Agriculture	0.0
Commercial	0.0
Industrial	0.0
Renewable Energy	0.0
Stewardship	0.0
Conservation	0.0
Special District	0.0

Approximate Total Acres
± 1,206.0

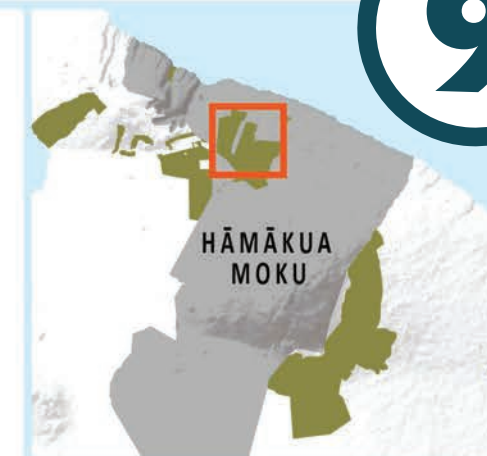


Site Assessment Highlights

- Existing Roadways
- County Water Main
- Annual Rainfall > 60 Inches
- State & County Conservation
- Streams
 - Perennial
 - Non-Perennial
- Slope Range
 - < 10% (Preferred)
 - 10 - 20% (Feasible)
 - > 20% (Too steep for some land uses)

Notes

- The site is adjacent to and outside the State's conservation lands.
- The site receives 60 inches or more of rain annually. Catchment may be possible.
- Slope less than 10% is preferred for Residential, Pastoral (grazing), Community Use, Commercial, and Industrial.
- Slope less than 15% is preferred for Subsistence, Supplemental and Community Agriculture.
- Slope up to 20% is feasible for all land uses above. Pastoral (ag uses) can go up to 30%.
- Slope greater than the above is too steep.
- The availability and supply of the county water are uncertain.
- The proposed Residential use depends on water availability.



Island Plan Update

Land Use Designations

Homestead Uses

Residential	179.1
Subsistence Agriculture	441.1
Supplemental Agriculture	0.0
Pastoral	2,319.5
DHHL Kuleana	0.0

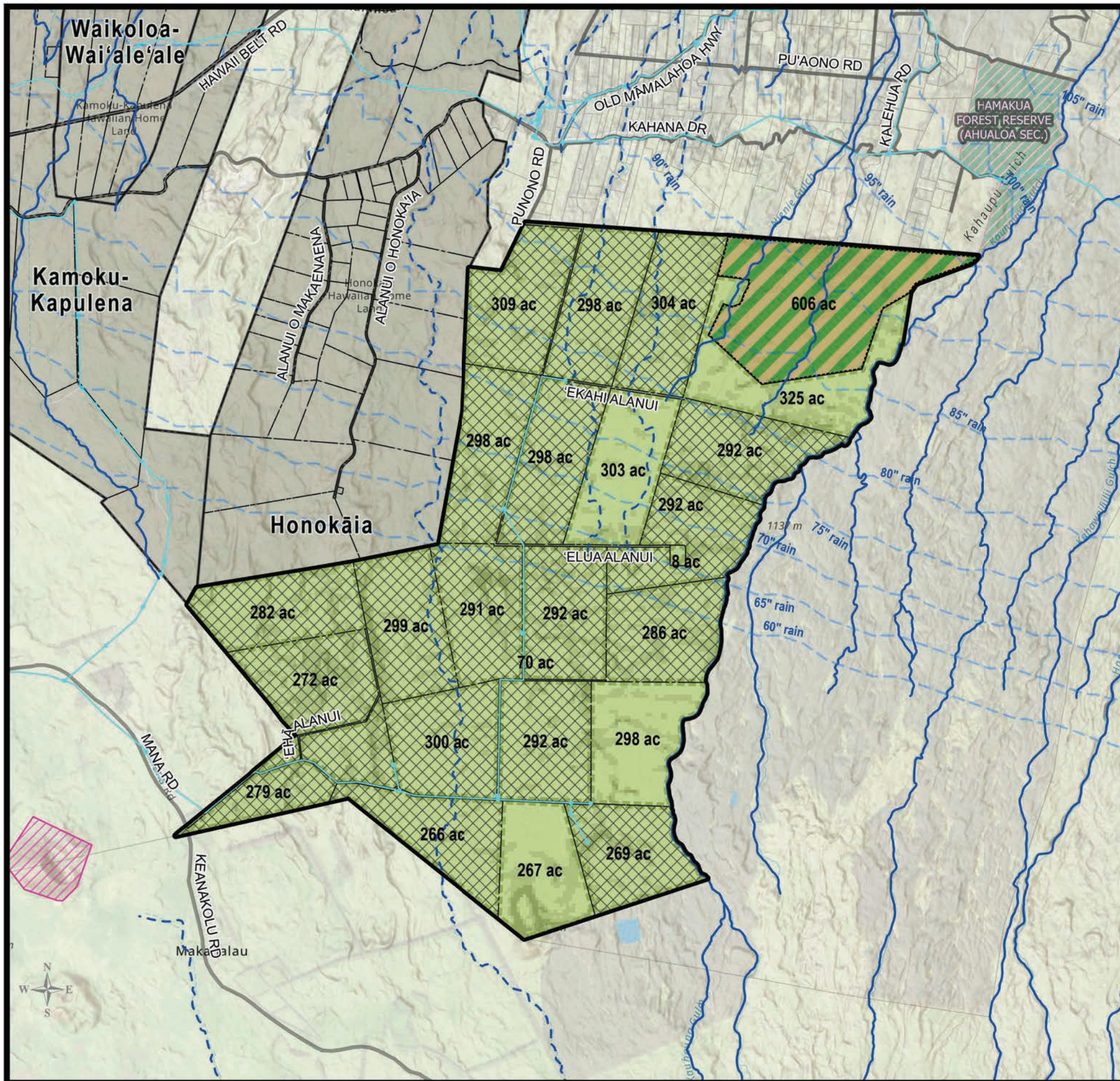
Non-Homestead Uses

Community Use	12.4
Community Agriculture	0.0
Commercial	21.2
Industrial	0.0
Renewable Energy	0.0
Stewardship	0.0
Conservation	0.0
Special District	0.0

Land Use Options

Residential/ Subsistence Agriculture	144.8
Pastoral/Residential	90.3

Approximate Total Acres
± 3,208.4



Site Assessment Highlights

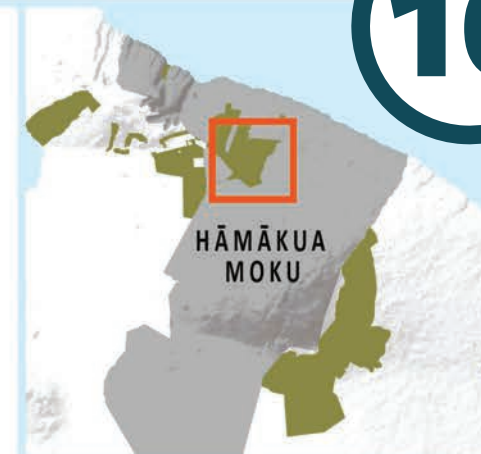
- Long Term Leases
- Existing Roadways
- County Water Main
- Annual Rainfall > 60 Inches
- State & County Conservation

- Streams
- Perennial
 - Non-Perennial

- Slope Range
- < 10% (Preferred)
 - 10 - 20% (Feasible)
 - > 20% (Too steep for some land uses)

Notes

- The northern half of the site receives 60 inches or more of rain annually. Catchment may be possible.
- The 606-ac parcel at the northeastern corner of the site is within the State's conservation lands.
- Within the conservation area, there are opportunities for revenue generation through forestry.
- Slope less than 10% is preferred for Residential, Pastoral (grazing), Community Use, Commercial, and Industrial.
- Slope less than 15% is preferred for Subsistence, Supplemental and Community Agriculture.
- Slope up to 20% is feasible for all land uses above. Pastoral (ag uses) can go up to 30%.
- Slope greater than the above is too steep.
- The availability and supply of the county water are uncertain.



Island Plan Update

Land Use Designations

Homestead Uses

Residential	0.0
Subsistence Agriculture	0.0
Supplemental Agriculture	0.0
Pastoral	6,489.4
DHHL Kuleana	0.0

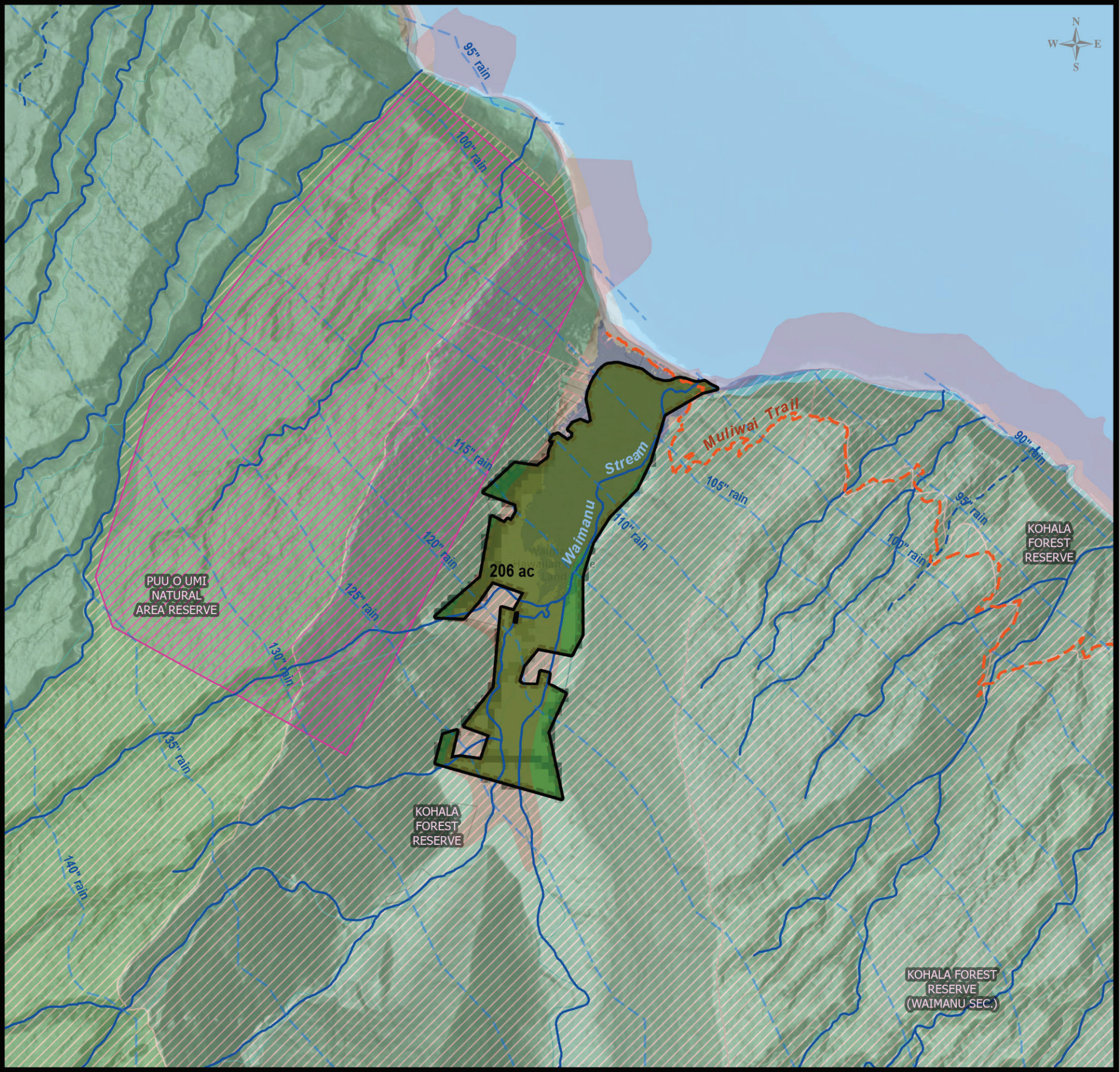
Non-Homestead Uses

Community Use	0.0
Community Agriculture	0.0
Commercial	0.0
Industrial	0.0
Renewable Energy	0.0
Stewardship	0.0
Conservation	0.0
Special District	0.0

Land Use Options

Conservation/Stewardship	606.4
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Approximate Total Acres
± 7,095.8



Site Assessment Highlights

- Nā Ala Hele Trails & Access
 - Annual Rainfall > 60 Inches
 - Critical Habitats
 - State Reserves
 - Flood Prone Areas
 - Sea Level Rise Exposure Areas
 - State & County Conservation
- Streams
- Perennial
 - Non-Perennial
- Slope Range
- < 10% (Preferred)
 - 10 - 20% (Feasible)
 - > 20% (Too steep for some land uses)

Notes

- The site is located within the State's conservation lands, surrounded by Kohala Forest Reserve, and impacted by flooding and sea level rise.
- Muliwai Trail passes through the northern tip of the site. Nā Ala Hele is the name of the State of Hawai'i's trail and access program. The program manages and maintains important public trails and access.
- Waterfalls can be seen at the site.



Island Plan Update

Land Use Designations

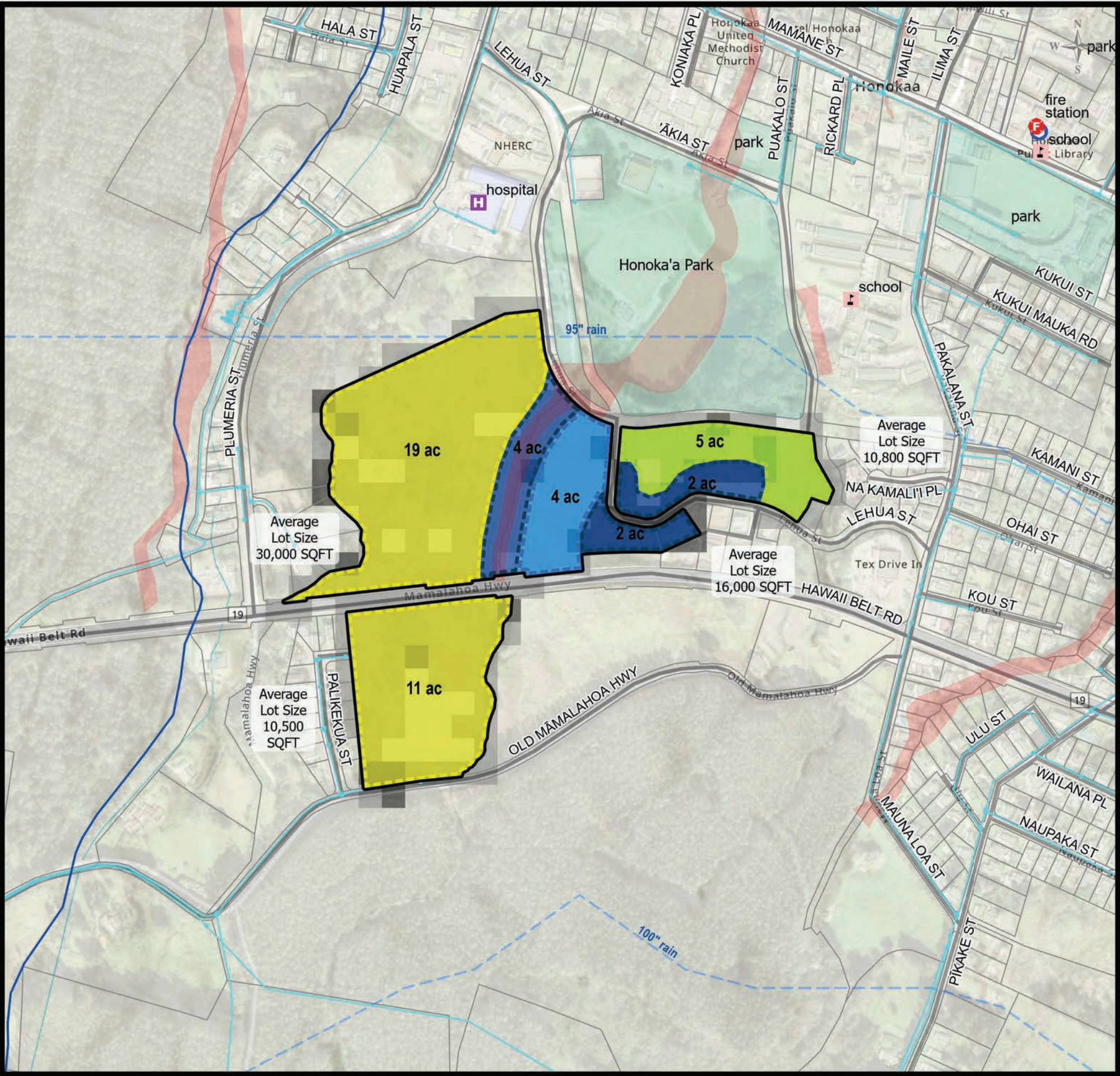
Homestead Uses

Residential	0.0
Subsistence Agriculture	0.0
Supplemental Agriculture	0.0
Pastoral	0.0
DHHL Kuleana	0.0

Non-Homestead Uses

Community Use	0.0
Community Agriculture	0.0
Commercial	0.0
Industrial	0.0
Renewable Energy	0.0
Stewardship	0.0
Conservation	200.0
Special District	0.0

Approximate Total Acres
± 200.0



Site Assessment Highlights

- Existing Roadways
- County Water Main
- Annual Rainfall > 60 Inches
- Flood Prone Areas
- State & County Conservation
- Streams
 - Perennial
 - Non-Perennial
- Slope Range
 - < 10% (Preferred)
 - 10 - 20% (Feasible)
 - > 20% (Too steep for some land uses)

Notes

- The site is south of Honoka'a Park.
- The site receives 60 inches or more of rain annually. Catchment may be possible.
- The soil rating for the most part of the site is good for ag uses.
- The two 2-ac Special District lands along Lehua Street are steep slopes greater than 20%.
- The 4-ac Special District land serves as a buffer for the flood-prone area in the center.
- Slope less than 10% is preferred for Residential, Pastoral (grazing), Community Use, Commercial, and Industrial.
- Slope less than 15% is preferred for Subsistence, Supplemental and Community Agriculture.
- Slope up to 20% is feasible for all land uses above. Pastoral (ag uses) can go up to 30%.
- Slope greater than the above is too steep.
- The capacity and availability of the county water are uncertain.



Island Plan Update

Land Use Designations

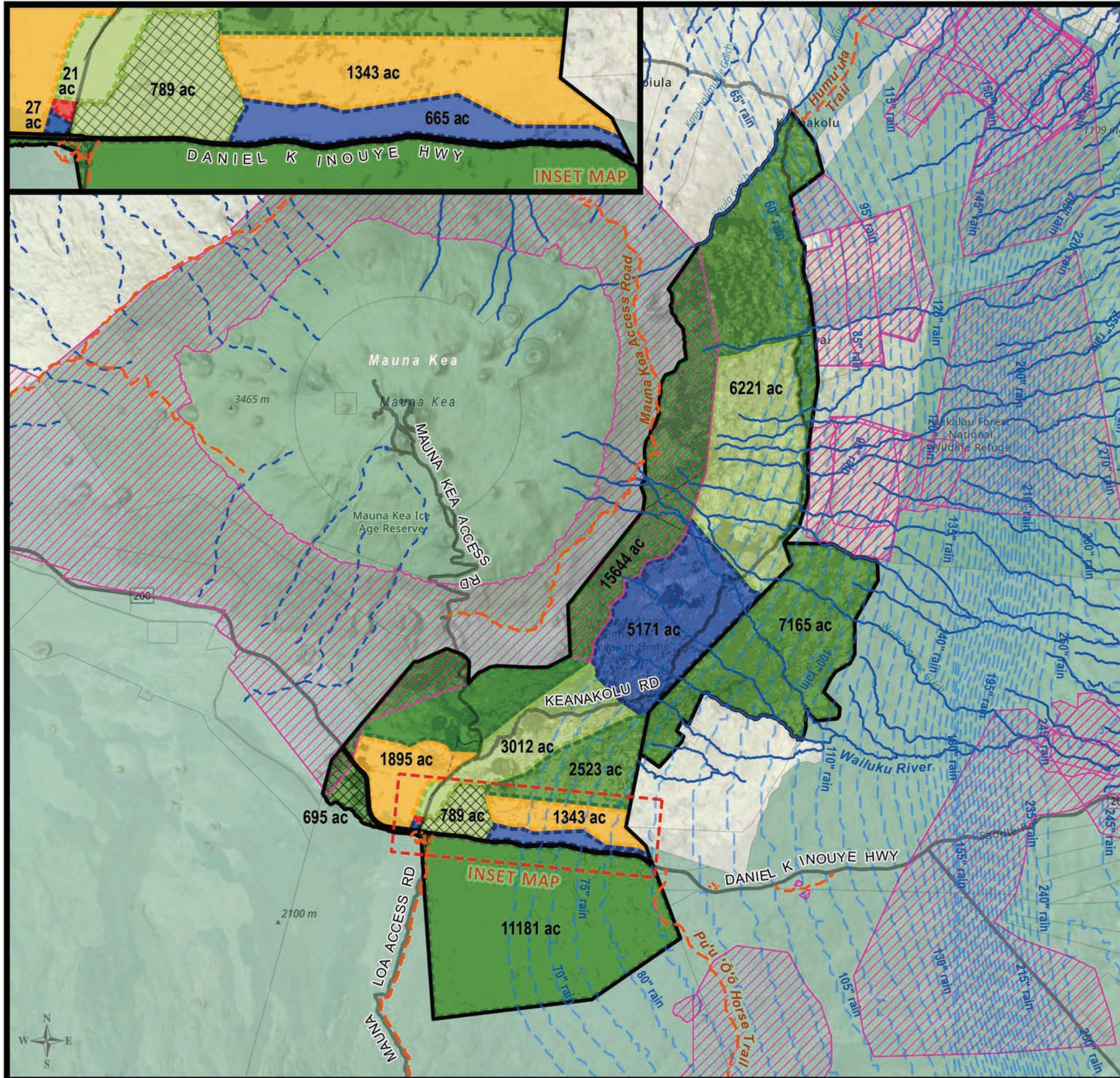
Homestead Uses

Residential	29.9
Subsistence Agriculture	4.9
Supplemental Agriculture	0.0
Pastoral	0.0
DHHL Kuleana	0.0

Non-Homestead Uses

Community Use	4.4
Community Agriculture	0.0
Commercial	0.0
Industrial	0.0
Renewable Energy	0.0
Stewardship	0.0
Conservation	0.0
Special District	7.3

Approximate Total Acres
± 46.5

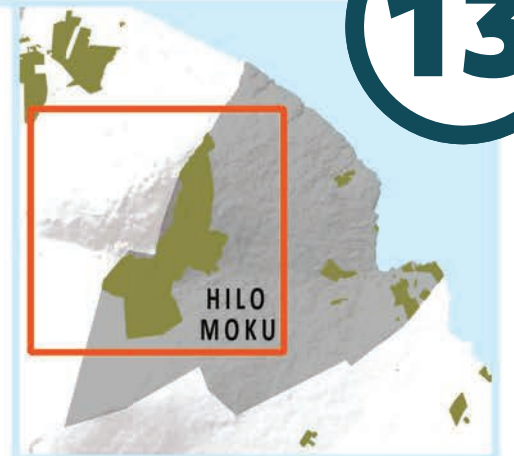


Site Assessment Highlights

- Long Term Leases
- Existing Roadways
- Nā Ala Hele Trails & Access
- Annual Rainfall > 60 Inches
- State & County Conservation
- Critical Habitats
- Streams
 - Perennial
 - Non-Perennial
- Slope Range
 - < 10% (Preferred)
 - 10 - 20% (Feasible)
 - > 20% (Too steep for some land uses)

Notes

- This map was drafted based on the 'Āina Mauna Legacy Program land use map. The program sees opportunities of self-sustainable rural-development homesteads along Daniel K Inouye Hwy (former Saddle Rd), including land for 100 to 200 homestead sites, land for alternative energy, and land for subsistence farming. Roads would remain unpaved and water would be catchment. Basic electrical and telecommunication infrastructure would be available.
- The site is partially within the State and County's conservation lands and also in the critical habitat areas for endangered Hawaiian honeycreepers.
- A few trails are near the site. Nā Ala Hele is the name of the State of Hawai'i's trail and access program. The program manages and maintains important public trails and access.
- Two existing leases are on the site: the 789-ac pastoral lease and the 695-ac military lease.
- The existing gorse shrub area (5,171 acres) and hard lava surfaces along Daniel K Inouye Hwy are identified as Special District.



Island Plan Update

Land Use Designations

Homestead Uses

Residential	0.0
Subsistence Agriculture	0.0
Supplemental Agriculture	0.0
Pastoral	10,021.2
DHHL Kuleana	3,238.1

Non-Homestead Uses

Community Use	0.0
Community Agriculture	0.0
Commercial	21.1
Industrial	0.0
Renewable Energy	0.0
Stewardship	0.0
Conservation	37,206.9
Special District	5,863.2

Approximate Total Acres
± 56,350.5

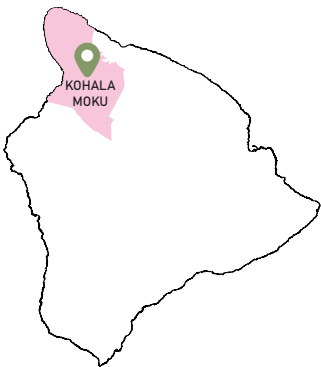
DEPARTMENT OF HAWAIIAN HOME LANDS
HAWAI'I ISLAND PLAN UPDATE
BENEFICIARY MEETING, ROUND 2
KOHALA & HĀMĀKUA – KŪHIŌ HALE DHHL WEST HAWAI'I OFFICE
APRIL 10, 2025
ATTACHMENTS TO SUMMARY

ATTACHMENT C:
Fact Sheets



Tract Boundaries

| KAWAIHAE | Kohala Moku, Hawai'i |
2002 Hawai'i Island Plan



ACREAGE: +/-10,098.6 ac

LAND USE Residential: +/- 2,224.9 ac

DESIGNATION: General Agriculture: +/- 7,434.2 ac
Community Use: +/- 81.5 ac
Commercial: +/-90.5 ac
Industrial: +/- 265.5 ac
No land designation: +/- 1.9 ac

From 2002 HIP:

Kawaihae is a 10,153-acre tract on the leeward side of the Kohala Mountains. Elevation ranges from sea level to 4,600 feet. Kawaihae Road and Akoni Pule Highway provide access to the makai portion of the site, and the Kohala Mountain Road enables access to the mauka portion.

Much of Kawaihae Tract is undeveloped and used for cattle and horse grazing. Other uses include a partially developed 90-acre industrial park, and subdivided homestead lots in the makai portion.

The Honokoa Gulch and a number of other gulches, gullies and swales cross the parcel. Segments of Honokoa Gulch are over 450 feet deep, presenting a significant constraint on development. Parts of the tract are steep, while others are not so. Slope on most of the property ranges between 10 and 15 percent. A number of archaeological sites have been identified on the site.

Mixed uses are recommended for the tract, including Homestead Residential, General Agriculture/Pastoral, Commercial, Industrial, and Community uses. Constraints limiting immediate development include high costs associated with providing sufficient water to the site, and beneficiary preferences for the cooler Lālāmilo and Honokaia tracts. The geo-physical conditions in the mauka portions also constrain development.

ENVIRONMENTAL CONDITIONS

TOPOGRAPHY/ ELEVATION:	Elevation for the tract ranges from sea level up to 5,000 feet in the mauka regions. Topography is mostly less than 20% slope with some areas around Honokoa Gulch and mauka reaching slopes greater than 20%. Elevation ranges from sea level to 4,600 feet. The Honokoa Gulch and a number of other gulches, gullies and swales cross the parcel. Segments of Honokoa Gulch are over 450 feet deep, presenting a significant constraint on development. Parts of the tract are steep, while others are not so. Slope on most of the property ranges between 10 and 15 percent.
SOILS:	Various <ul style="list-style-type: none">• Kemole stony medial silt loam, 12 to 20 percent slopes• Waikui-Hapuna complex, 2 to 10 percent slopes• Waikui-Hapuna complex, 2 to 10 percent slopes• Kawaihae very cobbly very fine sandy loam, 6 to 12 percent slopes• Kawaihae very cobbly silt loam, 6 to 20 percent slopes
GROUND COVER:	Hawaiian Introduced Perennial Grassland
CLIMATE/TEMP:	The climate is typically hot and dry along the coast, with cooler conditions in the upper portions of the tract. Temperatures in the lower elevations range between 55°F and 95°F, with higher elevations three to five degrees cooler.
RAINFALL:	Mauka side of tract receive approximately 60 to 90 inches of rainfall annually with the possibly of depending on the season. Makai side of tract recieves and average annual rainfall of 10 to 20 inches. Middle of the tract recieves 20 to 40 inches.
WIND:	Wind speeds range from approximately 3 mph in the lower elevation regions up to approximately 10 mph in the higher elevation mauka regions with prevailing winds typically running from north to south through the tract.
SOLAR RADIATION:	Avg High: 5.6 kWh/m2/day Avg Low: 4.8 kWh/m2/day
HUMIDITY:	84%
STREAMS/ WETLANDS:	Tributaries of Honokoa Gulch, Kawaihae Stream, Pu'u Kamali'i, Kaiopae Gulch, and Keanahalululu Gulch exist in the tract. Wetland types that accompany these streams include Riverines and Freshwater Forested/Shrub Wetland as well as Freshwater Emergent Wetlands and Freshwater Ponds found at higher elevations.
FLORA/FAUNA:	Critical habitats for endangered species exist along the mauka areas of Honokoa Gulch tributaries.
FLOOD ZONE:	X - Outside 0.2% annual chance floodplain.
TSUNAMI EVACUATION ZONE:	Tsunami evacuation zones are present along coastal areas of the tract
VOLCANO HAZARD:	Lava zone: 9 - Kohala Volcano, which last erupted over 60,000 years ago.
SEA LEVEL RISE:	Coastal regions are projected to be partially affected by a 3.2-foot sea level rise with no highways being affected and a total economic loss of less than \$250,000.
PROMINANT CULTURAL RESOURCES:	A number of archaeological sites have been identified within the tractwith no high-ways being affected and a total economic loss of less than \$250,000.

PUBLIC SERVICES

ACCESS/ROADS: Kawaihae Road and Akoni Pule Highway provide access to the makai portion of the site, and the Kohala Mountain Road enables access to the mauka portion.

SCHOOLS: (~8.5 mi south) Waikōloa Elementary & Middle School
(~10.5 mi SE) Waimea Elementary, Mlddle School
(~12 mi north) Kohala Elementary, Middle, & High School

SEWER/
WASTEWATER: (~1 mi south) Kawaihae Village
(~3 mi south) South Kohala WWRF
(~4.25 mi SW) Ouli Ekahi Affordable Housing

FIRE/POLICE: (~7 mi south) Kohala Ranch Volunteer Fire station
(~11 mi east) Waimea Police Station

AIRPORT: (~25 mi NW) Kona International Airport

PARKS/REC: (>1 mi south) Kawaihae Canoe Area
(~1 mi south) Spencer Beach Park
(~4 mi south) Hapuna Beach State Recreation Area

ELECTRICITY: (~0.75 mi south) Kawaihae Substation
(~0.5 mi north) Kawaihae Road and Waika Substation

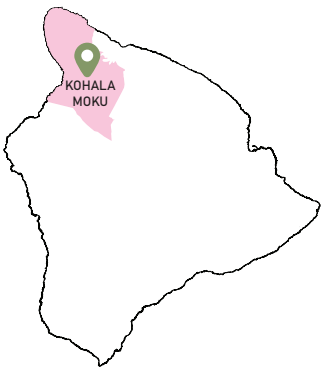
MEDICAL FACILITIES: (~8.25 mi SE) Queen's North Hawai'i Community Hospital



Tract Boundaries



| 'UPOLU | Kohala Moku, Hawai'i |
2002 Hawai'i Island Plan



ACREAGE: 37.4 Acres
LAND USE DESIGNATION: Special District: +/- 34.7 ac
PROPOSED USE: Recommended for Special District Designation

From 2002 HIP:
'Upolu Point is a 37-acre parcel between 'Umiwai and Holana Bays near the northern tip of Hawaii Island aquired from the federal government in 2000. This site contains remnant structures from former Naval operations. The Old Coast Guard Road provides access to the property, connecting it to Akoni Pule Highway through lands owned by Parker Ranch. Related access issues would need to be resolved prior to significant development or changes in land use.

The terrain at 'Upolu is flat, with slopes ranging between zero to five percent. The climate is very dry with annual rainfall between zero and ten inches. Temperatures typically range between 60°F and 82°F. Soils at the tract are stony silty clay.

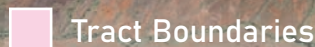
Given that the parcel has limited electricity and water service, and a decommissioned wastewater treatment plant, there is potential for reuse of existing buildings. The DHHL has issued a revocable permit for use of portions of the property for community and cultural uses. This use and/or other uses are not considered long-term at this time given access issues and more pressing priorities in other DHHL regions. Given the historical importance of this region for Native Hawaiians, a complete archaeological survey is recommended prior to development on the property.

ENVIRONMENTAL CONDITIONS

TOPOGRAPHY/ ELEVATION:	The terrain at 'Upolu is fairly flat, with slopes ranging between 0-5%. The site itself ranges from sea level and up to 500 feet.
SOILS:	Various <ul style="list-style-type: none">Primary: Hawi silty clay, 3 to 12% slopeSecondary: Hawi very stony silty clay 6 to 12% slope
GROUND COVER:	Primarily baren land with Hawaiian introduced perennial grasses.
CLIMATE/TEMP:	Dry area; Average annual temperature is 74 degrees fahrenheit.
RAINFALL:	Tract is in a dry climate range within the mukupuni of Hawai'i. The average rainfall is between 0 to 10 inches per year.
WIND:	Prevailing winds coming from the east-northeast region with wind speed ranging between 10.5mph to 13.2mph.
SOLAR RADIATION:	Annual Average: 5.9 – 6.0 kWh/m²/day
HUMIDITY:	70%
STREAMS/ WETLANDS:	are no streams or wetlands on site. The 'Upolu stream is located approximately 2.5 miles northeast of the sites northern boundary and approximately 1.5 miles of the Kukuipahu riverine from its southern boundary.
FLOOD ZONE:	Flood zone: VE **1% annual chance coastal flood with base flood elevation. This is approximately 100 feet along the shoreline. Majority of the site stands at a flood zone X designation. Meaning moderate to low risk for floods (Outside 0.2% annual chance floodplain).
FLORA/FAUNA:	No critical habitat is found along 'Upolu region and within site. Nearest critical habitat is located southeast from site which is the Hala Pepe (Dracaena konaensis).
TSUNAMI EVACUATION ZONE:	Approx. 80% of the site is within the Tsunami Evacuation Zone with the exception of the eastern most point of the site boundaries.
VOLCANO HAZARD:	Lava zone: 9 – Kohala Volcano, which last erupted over 60,000 years ago
SEA LEVEL RISE:	The tract itself will be partially affected by a 3.2-foot sea level rise. However, no major roadways will be affected by the SLR with the exception of Ulolu Point Rd. The total economic loss for the projected 3.2-foot sea level rise will be no more than \$17,000 (\$16,999.94).
PROMINANT CULTURAL RESOURCES:	Given the historical importance of this region for native Hawaiians, a complete archaeological survey is recommended prior to development on the property. Approximately 0.5 miles from the center of the site is the birth site of King Kamehameha I and the Kohala State Monument, Mo'okini Heiau.

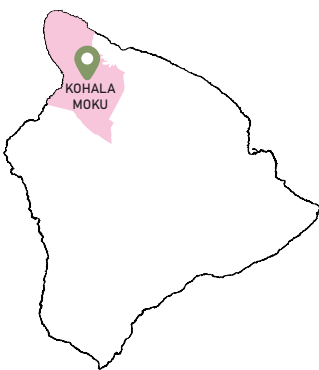
PUBLIC SERVICES

ACCESS/ROADS:	No direct access road to site. Old Coast Guard Rd. takes you to from Akoni Pule, the main access road in the Kohala area, then into a dirt path to entre site.	FIRE/POLICE:	(~6.3 mi east) North Kohala Fire Station (~6.3 mi east) Kapaau Police Station
SCHOOLS:	(~5 mi east) Kohala Elementary School (~5 mi east) Kohala High School (~7.7 mi east) Kohala Middle School	AIRPORT:	(~2 mi NE) 'Upolu Airport (~39 mi south) Kona International at Keahole Airport
MEDICAL FACILITIES:	(~6.3 mi east) Kohala Hospital	PARKS/REC:	(~0.5 mi east) Kohala Historical Sites S.M. Kamehameha I's birthplace (~0.5 mi east) The Kohala State Monument of the Mo'okini Heiau
SEWER/ WASTEWATER:	Decommissioned wastewater treatment plant. Alternative: (~6.4 mi east) Kohala Hospital WWTP	ELECTRICITY:	Limited electricity in the 'Upolu region; none currently on site

Tract Boundaries

| PAUAHI | Kohala Moku, Hawai'i |

2002 Hawai'i Island Plan



ACREAGE: 555.5 Acres

LAND USE Pastoral: +/- 554.57 ac

DESIGNATION: NO land use designation: +/-0.9 ac

PROPOSED USE: Recommended for Pastoral Use

ENVIRONMENTAL CONDITIONS

TOPOGRAPHY/ ELEVATION:	The southern part of the tract is 2,500 feet in elevation and goes up to approximately 5,000 feet the further up north you go up the site. Between the southern boundary to the northern boundary, the estimated slope is at 16%.
SOILS:	Various <ul style="list-style-type: none">• Kemole stony medial silt loam 6 to 12%• Waimea medial silt loan, 12 to 20% slope• Palapalai hydrous silt loam, 12 to 20%• Rock outcrop-Kamakoa 6 to 20%• Pu'u pa very cobbly medial very fine sandy loam, 6 to 12%.
GROUND COVER:	Hawaiian introduced perennial grasses.
CLIMATE/TEMP:	Temperature within the tract averages 62 degrees Fahrenheit annually.
RAINFALL:	Rainfall ranges between 60 inches of rain to 85 inches of rain. Northern parcel has more
WIND:	Prevailing winds coming from the east-northeast region with wind averaging about 11.64 mph annually.
SOLAR RADIATION:	Annual Average: 5.26 kWh/m ² /day
HUMIDITY:	86.1%
STREAMS/ WETLANDS:	Waiulaula stream and the Kukui stream border the east and west boundaries of the tract.
FLORA/FAUNA:	There is critical habitat that borders the east and west property boundaries along with the streams that flow around the site. The species is Achyranthes mutica.
FLOOD ZONE:	X - Outside 0.2% annual chance floodplain.
TSUNAMI EVACUATION ZONE:	Tract is not within the tsunami evacuation zone
VOLCANO HAZARD:	Lava zone: 8 - Remaining part of Mauna Kea. Only a few percent of this area has been covered by lava in the past 10,000 years.covered by lave in the past 10,000 years.
SEA LEVEL RISE:	Tract not within sea level rise vulnerability area.

PUBLIC SERVICES

ACCESS/ROADS: Access to the north parcel is accessible through the Kohala Mountain road, and the southern parcel is accessible through Kawaihae Road.

SCHOOLS: (~3.75 mi east) Waimea Elementary School
(~3.75 mi east) Waimea Middle PCS
(~16 mi north) Kohala High School
(~18 mi east) Honoka'a High School

MEDICAL FACILITIES: (~4.25 mi east) North Hawaii Community Hospital

**SEWER/
WASTEWATER:** Ouli Ekahi Affordable Housing, approximately 2.5 miles west from the tract, and another at the Waimea Town Plaza which is approximately 4.5 miles from the tract.

FIRE/POLICE: (~4.4 mi east) Waimea Fire and Police Station

AIRPORT: (~4.5 mi east) Waimea Kohala Airport
(~30 mi south) Kona International at Keahole Airport

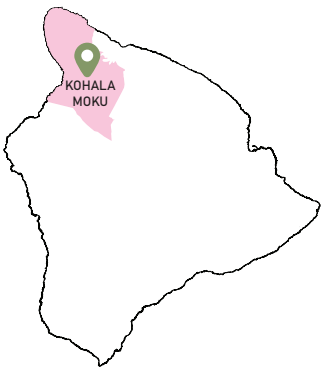
PARKS/REC: 'Ouli Park which is just across Kawaihae road, the same road the southern boundary of the tract shares with the park.

ELECTRICITY: Electricity can be found at the southwestern boundary of the tract, Lalamilo.



| KEONIKI | Kohala Moku, Hawai'i |

2002 Hawai'i Island Plan



ACREAGE: +/-230.127 acres
LAND USE +/-230.127 ac
DESIGNATION:
PROPOSED USE: Recommended for homestead pastoral use

From 2002 HIP:
Keoniki is a 230-acre parcel located on the lower slopes of the North Kohala Mountains within a mile of Waimea town. DHHL's Pu'ukapu 3 is directly north of the parcel. About 105 acres are available for development.

Elevation ranges from 2,500 to 3,600 feet. Keoniki is used as pasture land. The terrain is generally steep, with slopes ranging between 15 to 20 percent. The climate is typical of the area, with temperatures ranging between 55°F and 80°F. Keoniki typically receives 75 to 100 inches of rain annually. The predominate soil type is silt loam. The carrying capacity index is two acres per animal unit year.

While the soil conditions, abundant rainfall, and cool climate make the parcel amenable for rural homesteading, site access is limited. Relatively steep slope also is a limiting factor.

ENVIRONMENTAL CONDITIONS

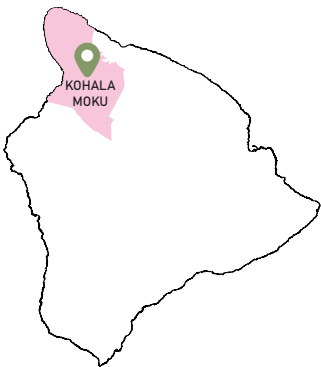
TOPOGRAPHY/ ELEVATION:	Elevation ranges from 2,500 to 3,600 feet. The terrain is generally steep, with slopes ranging between 15-20%
SOILS:	Various <ul style="list-style-type: none">• Waimea medial silt loam, 12 to 20% slopes• Rock outcrop-Kamakoa complex, 6-20% slopes• Palapalai hydrous silt loam, 20 to 50%, 12 to 20% and 6 to 12% slopes
GROUND COVER:	Hawaiian introduced perennial grassland.
CLIMATE/TEMP:	Ranges between 55 to 80 degrees fahrenheit
RAINFALL:	An average of 75 to 100 inches of rain annually.
WIND:	Prevailing come from the eastern side of the island. wind speed ranges from 10.2 to 12.4mph annually.
SOLAR RADIATION:	Avg High: 7.1148 kWh/m²/day Avg Low: 3.1175 kWh/m²/day
HUMIDITY:	86%
STREAMS/ WETLANDS:	The Waiulaula stream follows the northern most point of our site from the Kohala mountain range, and flows down west to mean the ocean, just 1.2 miles north of Mauna Kea Beach.
FLOOD ZONE:	X - Outside of the 0.2% annual chance floodplain and the 100 year flood projection.
TSUNAMI EVACUATION ZONE:	Site is not within the coastal region of Hawaii Island.
VOLCANO HAZARD:	Lava zone: 9 - Kohala Volcano, which last erupted over 60,000 years ago. (least severe classification of lava zone on the island of Hawai' i.)
SEA LEVEL RISE:	The tract is not within the tsunami evacuation zone.
FLORA/FAUNA:	Critical habitat found along the Waiulaula stream that borders western boundary of the tract. Species identified as Achyranthes mutica.

PUBLIC SERVICES

PROXIMITY TO AIRPORT:	(~3.25 mi SE) Waimea Kohala Airport (~32 mi west) Kona International at Keahole Airport	FIRE/POLICE:	(~2.75 mi) Waimea Fire Station/Police Station **Located in Waimea Town Plaza
ACCESS/ROADS:	Tract accessible from Kohala Mountain Rd and north toward Loihi Pl.	OTHER:	Carrying capacity index: 2 acres/animal unit year
SEWER/ WASTEWATER:	(~2.75 mi) Located in Waimea Town Plaza	PARKS/REC:	(~1.5 mi west) 'Ouli Park (~2.2 mi east) Waimea Park (~2.2 mi east) Lily Yoshimatsu Senior Center
SCHOOLS:	(>1 mi) Hawaii Preparatory Academy (~2 mi east) Small World Preschool (~1.75 mi east) Montessori Education Center (~2.3 mi east) Waimea Elementary/Middle (~17.75 mi north) Kohala High School	MEDICAL FACILITIES:	(~2.45 mi east) North Hawai'i Community Hospital
ELECTRICITY:	Substation along Kawaihae Rd. (Within Lālamilo Point Homelands.)		



| LĀLĀMILO | Kohala Moku, Hawaiʻi |
2002 Hawaiʻi Island Plan



ACREAGE: +/-270 acres
LAND USE DESIGNATION: Residential: +/- 217.5 ac
Community: +/- 15.6 ac
Commercial: +/- 3.6 ac
Industrial: +/- 33.7 ac
PROPOSED USE: Recommended for residential use

NECESSARY IMPROVEMENTS TO ACHIEVE DESIRED OUTCOMES:

- The proposed development is in close proximity to existing infrastructure serving the neighboring subdivision.
- Off-site costs do include a wastewater treatment plant, and water system improvements.
- Country standard roads and full utilities are reflected in the relatively high on-site costs
- Extensive site preparation requirements also increase on-site cost estimates for Lālāmiolo.

DEVELOPMENT COST/MANAGEMENT CONSIDERATIONS?

- Projected costs for residential lots at Lālāmiolo need extensive site preparation requirements. \$6,355,000 is required for off-site improvements which is approximately \$15,877 per lot.
- On site improvements would need a total cost of \$21,890,000, which is \$54,725 per lot. In total, Lālāmiolo would need \$28,245,000 to develop the area.

ENVIRONMENTAL CONDITIONS

TOPOGRAPHY/ ELEVATION: Lalamilo is relatively flat and amenable to development with an elevation between 2,225 to 2,403

SOILS: Various

- Puu Pa, very cobbly medial very fine sandy loam, 6 to 12% slopes.
- Waimea medial very fine sandy loam, 0 to 6% slopes.
- Rock outcrop-Kamakoa complex, 6-20% slopes.

GROUND COVER: Hawaiian introduced perennial grassland.

CLIMATE/TEMP: With temperatures typically ranging from 55 degrees Fahrenheit in the evenings to 80 degrees Fahrenheit during the day.

RAINFALL: Annual average rainfall of 50 to 70 inches.
In recent years the area has been experiencing drought conditions.

WIND: Prevailing winds come from the northeastern region on the island with wind speed ranging between 7.5mph to 12mph.

SOLAR RADIATION: Avg High: 7.1148 kWh/m²/day
Avg Low: 3.1175 kWh/m²/day

HUMIDITY: 86%

STREAMS/ WETLANDS: Tract is not classified within wetland boundary. The Waiulaua stream runs along the northern and southern boundary of the site.

FLOOD ZONE: A - 1% annual chance flood, no BFE (base flood elevation)due to the Waiulaua stream running across the tracts northern and southern boundary.

FLORA/FAUNA: The tract does not have any critical habitat to that is protected, the closest habitat under protection/conservation is within the Keoniki tract and the species under this jurisdiction is Achyranthes mutica.

TSUNAMI EVACUATION ZONE: Site is not within the coastal region of Hawaii Island.

VOLCANO HAZARD: Lava zone: 8 - Remaining part of Mauna Kea. Only a few percent of this area has been coered by lava in the past 10,000 years

SEA LEVEL RISE: Tract is not vulnerable to sea level rise due to its elevation and distance from the coastal region

PROMINANT CULTURAL RESOURCES: Tract is not vulnerable to sea level rise due to its elevation and distance from the coastal region

PUBLIC SERVICES

ACCESS/ROADS: Tract accessible from from Waimea Kawaihae Rd. and Lalamilo house lot subdivision.

RESIDENTIAL: Tract accessible from from Waimea Kawaihae Rd. and Lalamilo house lot subdivision.

SCHOOLS: (>1 mi) Hawaii Preparatory Academy
(~2 mi east) Small World Preschool
(~1.75 mi east) Montessori Education Center
(~2.3 mi east) Waimea Elementary/Middle
(~17.75 mi north) Kohala High School

MEDICAL FACILITIES: (~2.75 mi east) North Hawaiʻi Community Hospital

SEWER/ WASTEWATER: (~2.75 mi) Located in Waimea Town Plaza

FIRE/POLICE: (~2.75 mi) Waimea Fire Station/Police Station
**Located in Waimea Town Plaza

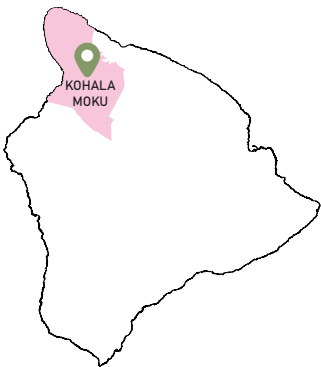
AIRPORT: (~2.75 mi east) Waimea Kohala Airport
(~30 mi west) Kona International at Keahole Airport

PARKS/REC: (~1.5 mi west) ʻOuli Park
(~2.2 mi east) Waimea Park
(~2.2 mi east) Lily Yoshimatsu Senior Center

ELECTRICITY: Substation along Kawaihae Rd. (Within Lālāmiolo Point Homelands.)



| PU'UKAPU | Kohala Moku, Hawai'i |
2002 Hawai'i Island Plan



ACREAGE: 11,994.8 Acres

LAND USE Residential: +/- 115.6 ac

DESIGNATION: Supplemental Agriculture: +/- 1,084.5 ac
General Agriculture: +/- 480.1 ac
Pastoral: +/- 9,846.8 ac
Community Use: +/- 80.7 ac
Conservation: +/- 168.5 ac
Special District: +/- 200 ac
No land designation: +/- 18.5 ac

PROPOSED USE: Pu'ukapu: Recommended for Homestead
Supplemental Agriculture, and General
Agriculture
Pu'u kapu 3: Recommended for
Homesteading Pastoral

ENVIRONMENTAL CONDITIONS

- TOPOGRAPHY/ ELEVATION:** Located in the saddle of Mauna Kea and Kohala Mountains at about 2,700 feet above sea level. The terrain is mostly flat with gentle rolling hills and fenced enclosures.
- SOILS:** Various
- Kikoni medial very fine sandy loam, 0 to 6 percent slopes
 - Kikoni medial very fine sandy loam, 6 to 12 percent slopes
 - Waimea medial very fine sandy loam, 0 to 6 percent slopes
 - Kemole extremely stony medial very fine sandy loam, 6 to 12 percent slopes
 - Kahaumanu-Lava flows complex, 2 to 10 percent slopes
 - Kemole-Waimea complex, 12 to 20 percent slopes
- GROUND COVER:** Hawaiian introduced perennial grasses.
- CLIMATE/TEMP:** The area is cool with temperatures ranging between 55 to 80 degrees Fahrenheit.
- RAINFALL:** 20 to 50 inches of rain annual, through the area has experienced a drought in the last few years
- WIND:** Winds predominantly come from the east north east region of the site and flows west. Wind speeds fluctuate with an average of 8 to 10mph on average.
- SOLAR RADIATION:** Annual Average: 4.9 – 5.0 kWh/m²/day
- HUMIDITY:** 86%
- STREAMS/ WETLANDS:** The Haloa riverine that flows west to east, cutting through the center of the site. The Lamimaumau stream partially boards the north west of the property, with- in the residential and supplementary agriculture portion of the tract, as well as the Waipunahoe, that borders the east boundary of the site and flows north and reaches Waipio bay.
- FLORA/FAUNA:** No critical habitat within the boundaries of the tract. Aupaka, or Isodendron hosakae, is approximately 1.25 miles south from the northern pastoral land of the tract.
- FLOOD ZONE:** X - Outside 0.2% annual chance floodplain.
- TSUNAMI EVACUATION ZONE:** The tract is not within an evacuation zone area.
- VOLCANO HAZARD:** Lava zone: 8 – Remaining part of Mauna Kea. Only a few percent of this area has been covered by lave in the past 10,000 years.
- SEA LEVEL RISE:** The tract is not within sea level rise vulnerability.

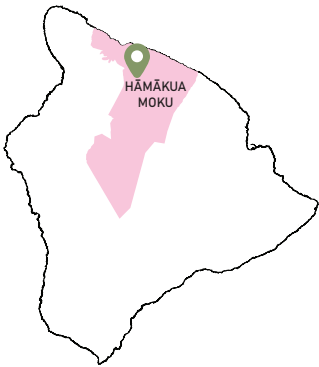
PUBLIC SERVICES

- ACCESS/ROADS:** The three parcels are located adjacent to DHHL's P'ukapu farm lot subdivision, with access from Pa'eli Alanui and Uakikoni Alanui roads.
- SCHOOLS:** (~0.75 mi NW) Waimea Elementary School
(~0.75 mi NW) Waimea Middle PCS
(~10 mi east) Honoka'a Intermediate and High School
(~20 mi north) Kohala High School
- ELECTRICITY:** Electrical facilities can be found in South Kohala (within the north west region of the tract boundary).
- MEDICAL FACILITIES:** (~0.25 mi NW) North Hawaii Community Hospital
- SEWER/ WASTEWATER:** (~0.25 mi north) Waimea Town plaza
- FIRE/POLICE:** (~0.1 mi north) Waimea Fire and Police Station
- WATER:** No water or sewer services are currently available on the property but its relatively close in proximity to the existing subdivision would facilitate ease of connection.
- AIRPORT:** (~0.75 mi west) Waimea Kohala Airport
(~35 mi SW) Kona International at Keahole Airport
- PARKS/REC:** (~0.5 mi east) Kohala Historical Sites S.M.
Kamehameha I's birthplace
(~0.5 mi east) The Kohala State Monument of the Mo'okini Heiau



Tract Boundaries

| KAMOKU-KAPULENA | Hāmākua Moku, Hawaiʻi |
2002 Hawaiʻi Island Plan



ACREAGE: +/- 3,529.124 acres

LAND USE +/-441.8ac General Agriculture
DESIGNATION: +/-3,087.6ac Pastoral

RESIDENTIAL:

Kukuihaele is the nearest residential area to the tract which is located 3.2 miles northwest.
Hāmākua is another residential area located 5 miles east. This area is accessible via Hawaiʻi Belt Road and the Old Māmalahoa Highway.
Waimea is also a residential area located 5.5 miles west. This area is also accessible via Hawaiʻi Belt Road and the Old Māmalahoa Highway.

PARKS/REC:

State: Hāmākua Forest Reserve and Kalōpā State Recreation Area are 7 miles east.
Kukuihaele park and cemetery are 3.5 miles northwest.
Waimea Park, Soccer Field, cemetery, and Church Row Park and Ke Ala Kahawai 'o Waimea are 6 miles west.
County: Honoka'a Sport Complex and Haina County Park are approximately 4.5 miles east.
Waipi'o community park and lookout are 3.5 miles northwest.
Spencer Kalani Schutte District Park is 6.5 miles west.

FIRE/POLICE:

The nearest fire station and police station are Honoka'a stations which are approximately 4.5 miles northeast of the tract. Waimea fire station and police states are also located approximately 6.5 miles southwest of the tract.

**TOPOGRAPHY/
ELEVATION:**

SOILS:

GROUND COVER:

CLIMATE/TEMP:

WIND:

**SOLAR
RADIATION:**

HUMIDITY:

**STREAMS/
WETLANDS:**

FLORA/FAUNA:

FLOOD ZONE:

SEA LEVEL RISE:

VOLCANO HAZARD:

**TSUNAMI
EVACUATION ZONE:**

ENVIRONMENTAL CONDITIONS

The elevation ranges from approximately 2,000 feet at the tract's northern boundaries up to approximately 3,500 feet at the tract's southern boundaries.

The tract's soil type is mostly Honoka'a highly organic hydrous silty clay loam. In southern and northern edges there are areas covered with Honoka'a hydrous silty clay loam.
The soil within the tract classified mostly as 'Other ALISH' by the Agricultural Lands of Importance to the State of Hawaiʻi (ALISH). "Unclassified" area also can be found all over the tract especially in the north. The Land Study Bureau (LSB) classified the northern half portion of the tract as "Poor" and the southern area as "Fair".
Ground cover for the area consists mainly of Hawaiian Introduced Perennial Grassland with some Hawaiian Managed Tree Plantation ground cover in the northern area.

Average temperatures in the area range between approximately 66°F and 63°F, with colder temperatures in the winter months and higher elevations and higher temperatures in the summer months and lower elevations.

The wind speed is from 5.3 mph in northern areas to 9.4 mph in southern boundaries.

Solar radiation ranges from approximately 4.5 kWh/m2/day to approximately 4.3 kWh/m2/day, with more solar radiation in the eastern areas of the tract.

Relative humidity ranges from approximately 85.5% to 86.5%, with humidity tending to be higher during the midday hours and lower during night to early morning. Relative humidity is lower at higher elevations and higher in lower elevations of the tract.

There are multiple Freshwater Ponds, Freshwater Emergent Wetlands, as well as Riverine wetlands throughout the tract.

The tract is not designated as a critical habitat.

X - Subject to a less than 0.2% chance of annual flood risk and is considered low- to moderate- risk.

The area is not anticipated to be impacted by sea level rise.

The tract is designated as 8 on the Volcano Hazard Zone map, which are among the lowest tiers for volcano hazard.

This tract is not affected by tsunami evacuation zones.

PUBLIC SERVICES

ACCESS/ROADS: The tract is easily accessed via Hawaiʻi Belt Road and the Old Māmalahoa Highway.

SCHOOLS: (~4 mi east) Ka Hale O Na keiki preschool, Honoka'a public elementary, intermediate, and high school
(~4.5 mi west) Pūnana Leo O Waimea preschool, Kamehameha schools and Waimea preschool

MEDICAL FACILITIES: (~4.5 mi NE) Hale Ho'ola Hamakua
(~6 mi SW) North Hawaiʻi Community Hospital

SEWER/WASTEWATER: The nearest Wastewater Treatment Plants are 5 miles northeast and 6 miles southwest.

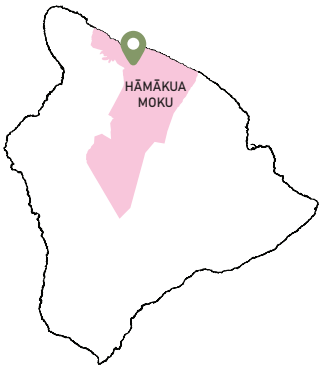
ELECTRICITY: (~4 mi NE) Encogen Facility
(~4 mi NE) Honoka'a Facility
(~2 mi west) Pu'ukapu facility

PROXIMITY TO AIRPORT (~38 mi SW) Kona International Airport
(~41 mi SE) Hilo International Airport
(~6.5 mi SW) Waimea Kohala Airport



Tract Boundaries

| WAIKOLOA-WAI'ALE'ALE | Hāmākua Moku, Hawai'i |
2002 Hawai'i Island Plan



ACREAGE: +/- 1,206 acres

LAND USE +/-1,206ac Pastoral
DESIGNATION:

PARKS/REC:

State: Hāmākua Forest Reserve and Kalōpā State Recreation Area are 5.5 miles east.
Kukuihaele park and cemetery are 2.5 miles northwest.
Waimea Park, Soccer Field, cemetery, and Church Row Park and Ke Ala Kahawai 'o Waimea are 7 miles southwest.

County: Honoka'a Sport Complex and Haina County Park are approximately 5 miles east.
Waipi'o community park and lookout are 2.5 miles northwest.
Spencer Kalani Schutte District Park is 8 miles southwest.

RESIDENTIAL:

Kukuihaele is the nearest residential area to the tract which is located 2.2 miles northwest.
Hāmākua is another residential area located 5 miles east. This area is accessible via Hawai'i Belt Road and the Old Māmalahoa Highway.
Waimea is also a residential area located 7.5 miles southwest. This area is also accessible via Hawai'i Belt Road and the Old Māmalahoa Highway.

ENVIRONMENTAL CONDITIONS

TOPOGRAPHY/
ELEVATION:

The elevation ranges from approximately 1,500 feet at the tract's northern boundaries up to approximately 3,000 feet at the tract's southern boundaries.

SOILS:

In the northern area of the tract, the soil is classified as Honoka'a hydrous silty clay loam. The soil in the remaining area is mostly Honoka'a highly organic hydrous silty clay loam.
The soil within the tract classified mostly as 'Other ALISH' by the Agricultural Lands of Importance to the State of Hawai'i (ALISH). "Unclassified" area also can be found all over the tract especially in the north.
The Land Study Bureau (LSB) classified most portions of the tract as "Poor". the southern edge of the tract is classified as "Fair".

GROUND COVER:

Ground cover for the area consists mainly of Hawaiian Introduced Perennial Grassland with some Hawaiian Introduced Wet Mesic Forest, Hawaiian Managed Tree Plantation, and Hawai'i Lowland Mesic Forest ground cover in the northern area.

CLIMATE/TEMP:

Average temperatures in the area range between approximately 68°F and 64°F, with colder temperatures in the winter months and higher elevations and higher temperatures in the summer months and lower elevations.

WIND:

The wind speed is from 5.7 mph in northern areas to 8 mph in southern boundaries.

SOLAR
RADIATION:

Solar radiation ranges from approximately 4.9 kWh/m2/day to approximately 4.4 kWh/m2/day, with more solar radiation in the eastern areas of the tract.

HUMIDITY:

Relative humidity ranges from approximately 83% to 86%, with humidity tending to be higher during the midday hours and lower during night to early morning. Relative humidity is lower at higher elevations and higher in lower elevations of the tract.

Riverine is the only type of wetland that exists in the tract.

STREAMS/
WETLANDS:

FLORA/FAUNA:

The tract is not designated as a critical habitat.

FLOOD ZONE:

X - Subject to a less than 0.2% chance of annual flood risk and is considered low- to moderate- risk.

SEA LEVEL RISE:

The area is not anticipated to be impacted by sea level rise.

VOLCANO HAZARD:

The tract is designated as 8 on the Volcano Hazard Zone map, which are among the lowest tiers for volcano hazard.

TSUNAMI
EVACUATION ZONE:

This tract is not affected by tsunami evacuation zones.

PUBLIC SERVICES

ACCESS/ROADS: The tract is easily accessed via Hawai'i Belt Road and the Old Māmalahoa Highway.

SCHOOLS: (~5.5 mi east) Ka Hale O Na keiki preschool, Honoka'a public elementary, intermediate, and high school
(~5.5 mi SW) Pūnana Leo O Waimea preschool, Kamehameha schools and Waimea preschool

MEDICAL FACILITIES: (~5 mi NE) Hale Ho'ola Hamakua

SEWER/
WASTEWATER: The nearest Wastewater Treatment Plant is 5.5 miles northeast

ELECTRICITY: (~5 mi NE) Encogen Facility
(~5 mi NE) Honoka'a Facility
(~3 mi west) Pu'ukapu Facility

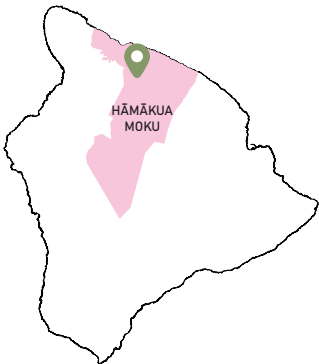
PROXIMITY TO AIRPORT (~42 mi SE) Hilo International Airport
(~8 mi SW) Waimea Kohala Airport

FIRE/POLICE: (~5.3 - 5.7 mi east) Honoka'a station



Tract Boundaries

| HONOKĀĪA | Hāmākua Moku, Hawaiʻi |
2002 Hawaiʻi Island Plan



ACREAGE: +/- 3,243 acres

LAND USE +/-295.6ac Residential
DESIGNATION: +/-512.3ac Subsistence
+/-2,372.8ac Pastoral
+/-12.1ac Community Use
+/-21.2ac Commercial

PROPOSED USE: Recommended for Residential and Subsistence Agriculture Use.
The northeast portion of Honokāia Tract is recommended for Residential Homestead use.
Central portions of Honokāia are considered suitable for Subsistence Agriculture Use.
Large portions of the Honokāia Tract are recommended for Pastoral Use. These are in the northwest and southern components.

BENEFICIARY SURVEY INPUT FOR INTEREST IN THE AREA?

The climate is cool, and rainfall is plentiful --attractive attributes for beneficiaries. Extensive acreage is available, with gentle slopes suitable for residential development and agricultural use. Each of these factors was central in designating the tract as a high priority site for both Residential and Subsistence Agriculture uses.

Located between Honoka'a and Waimea, with plenty of room for growth, Honokāia Tract is considered suitable for a range of potential uses, including Residential, Subsistence Agriculture, Pastoral, and Commercial.

ENVIRONMENTAL CONDITIONS

TOPOGRAPHY/ ELEVATION:	The tract's elevation ranges from approximately 2,250 feet at the tract's northern side and southern boundaries up to approximately 3,500 feet.
SOILS:	Soil types within the tract vary. Honoka'a highly organic hydrous silty clay loam can be found in northern areas. Maile hydrous silt loam and Maile- Waiākea -Rock outcrop complex are present at the southern end of the area. The soil within the tract is could potentially be suitable for agriculture, with all the land classified as 'Other ALISH' by the Agricultural Lands of Importance to the State of Hawai'i (ALISH) and as 'Agricultural" by the State Land Use District (SLUD). Most of the land classified 'D' (Poor) by the Land Study Bureau (LSB).
GROUND COVER:	Hawaiian lowland mesic Forest and Hawaiian introduced perennial grassland.
CLIMATE/TEMP:	Annual Temp: 63 Fahrenheit to 66 Fahrenheit. Temperatures typically range from 55 to 80 degrees Fahrenheit. The climate is cool.
RAINFALL:	60" in southern boundaries to 90" in northern area. Annual rainfall across the nearly Fourmile long site ranges from 60 to 120 inches
WIND:	The wind speed is from 6.2 mph in northern areas to 9.2 mph in southern boundaries.
SOLAR RADIATION:	Solar radiation ranges from approximately 4.5 kWh/m2/day all around the tract.
HUMIDITY:	Annual relative humidity ranges from approximately 85.5% to 86.5%.
STREAMS/ WETLANDS:	There are multiple Freshwater Ponds throughout the tract as well as Riverine wetlands.
FLORA/FAUNA:	The tract is not designated as a critical habitat.
FLOOD ZONE:	X - Subject to a less than 0.2% chance of annual flood risk and is considered low-to-moderate risk.
SEA LEVEL RISE:	The area is not anticipated to be impacted by sea level rise.
VOLCANO HAZARD:	The tract is designated as 8 on the Volcano Hazard Zone map, which are among the lowest tiers for volcano hazard.
TSUNAMI EVACUATION ZONE:	This tract is not affected by tsunami evacuation zones.

PUBLIC SERVICES

ACCESS/ROADS: Honokāia Tract is easily accessed via Hawaiʻi Belt Road and the Old Māmalahoa Highway.

RESIDENTIAL: (~3 mi east) Hāmākua residential area; This area is accessible via Hawaiʻi Belt Road and the Old Māmalahoa Highway.

SCHOOLS: (~3.5 east) Ka Hale O Na Keiki preschool, Honoka'a public elementary, intermediate, and high school

MEDICAL FACILITIES: (~3.3 mi NE) Hale Ho'ola Hamakua

PARKS/REC: (~5.5 mi east) Hāmākua Forest Reserve
(~5.5 mi east) Kalōpā State Recreation
(~4 mi east) Honoka'a Sport Complex
(~4 mi east) Haina County Park are approximately 4 miles east.

SEWER/WASTEWATER: The nearest Wastewater Treatment Plant is 4.3 miles northeast

ELECTRICITY: Encogen facility 3 miles northeast
Honoka'a facility 2.5 miles northeast
Pu'ukapu facility 4.5 miles west

PROXIMITY TO AIRPORT (~38 mi SW) Kona International Airport
(~41 mi SE) Hilo International Airport
(~8 mi SE) Waimea Kohala Airport

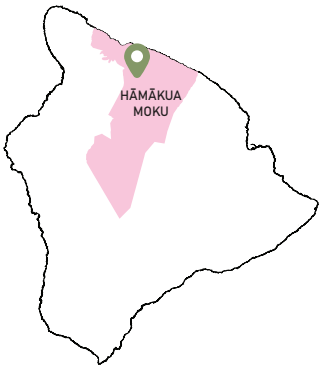
FIRE/POLICE: (~3.5 - 3.8 mi NE) Honoka'a Stations



Tract Boundaries

| NIENTE | Hāmākua Moku, Hawai‘i |

2002 Hawai‘i Island Plan



ACREAGE: +/- 7,134.94 acres

LAND USE +/-918ac General Agriculture
DESIGNATION: +/-6,244.4ac Pastoral

ENVIRONMENTAL CONDITIONS

TOPOGRAPHY/
ELEVATION:

The elevation ranges from approximately 2,500 feet at the tract’s northern boundaries up to approximately 4,500 feet at the tract’s southern boundaries.

SOILS:

The tract’s soil type in the northern portion is Honoka’a highly organic hydrous silty clay loam. The soil in the central area of the tract is classified as Maile hydrous silt loam. ‘Umikoa medial silt loam is the soil type of the southern portion. The soil within the tract classified mostly as ‘Other ALISH’ by the Agricultural Lands of Importance to the State of Hawai‘i (ALISH). “Unclassified” area also can be found all over the tract especially in the north. The Land Study Bureau (LSB) classified the northern portion of the tract as “Poor” and the southern area as “Fair”.

GROUND COVER:

Ground cover for the area consists mainly of Hawaiian Introduced Perennial Grassland with some Hawaiian Managed Tree Plantation ground cover in the northern area.

CLIMATE/TEMP:

Average temperatures in the area range between approximately 66°F and 63°F, with colder temperatures in the winter months and higher elevations and higher temperatures in the summer months and lower elevations.

WIND:

The wind speed is from 6.2 mph to 9.8 mph. The wind speed is at its lowest value in the northern forest reserve portion. The highest wind speed is measured in the central area of the tract.

SOLAR
RADIATION:

Solar radiation ranges from approximately 4.4 kWh/m2/day to approximately 4.6 kWh/m2/day

HUMIDITY:

Relative humidity ranges from approximately 84.3% to 86.2%, with humidity tending to be higher during the midday hours and lower during night to early morning. Relative humidity is lower at higher elevations and higher in lower elevations of the tract.

STREAMS/
WETLANDS:

There are multiple Freshwater Ponds, as well as Riverine wetlands throughout the tract. In the eastern boundaries, a Freshwater Forested/ Shrub Wetland exists.

FLORA/FAUNA:

The tract is not designated as a critical habitat.

FLOOD ZONE:

X - Subject to a less than 0.2% chance of annual flood risk and is considered low- to moderate- risk.

SEA LEVEL RISE:

The area is not anticipated to be impacted by sea level rise.

VOLCANO HAZARD:

The tract is designated as 8 on the Volcano Hazard Zone map, which are among the lowest tiers for volcano hazard.

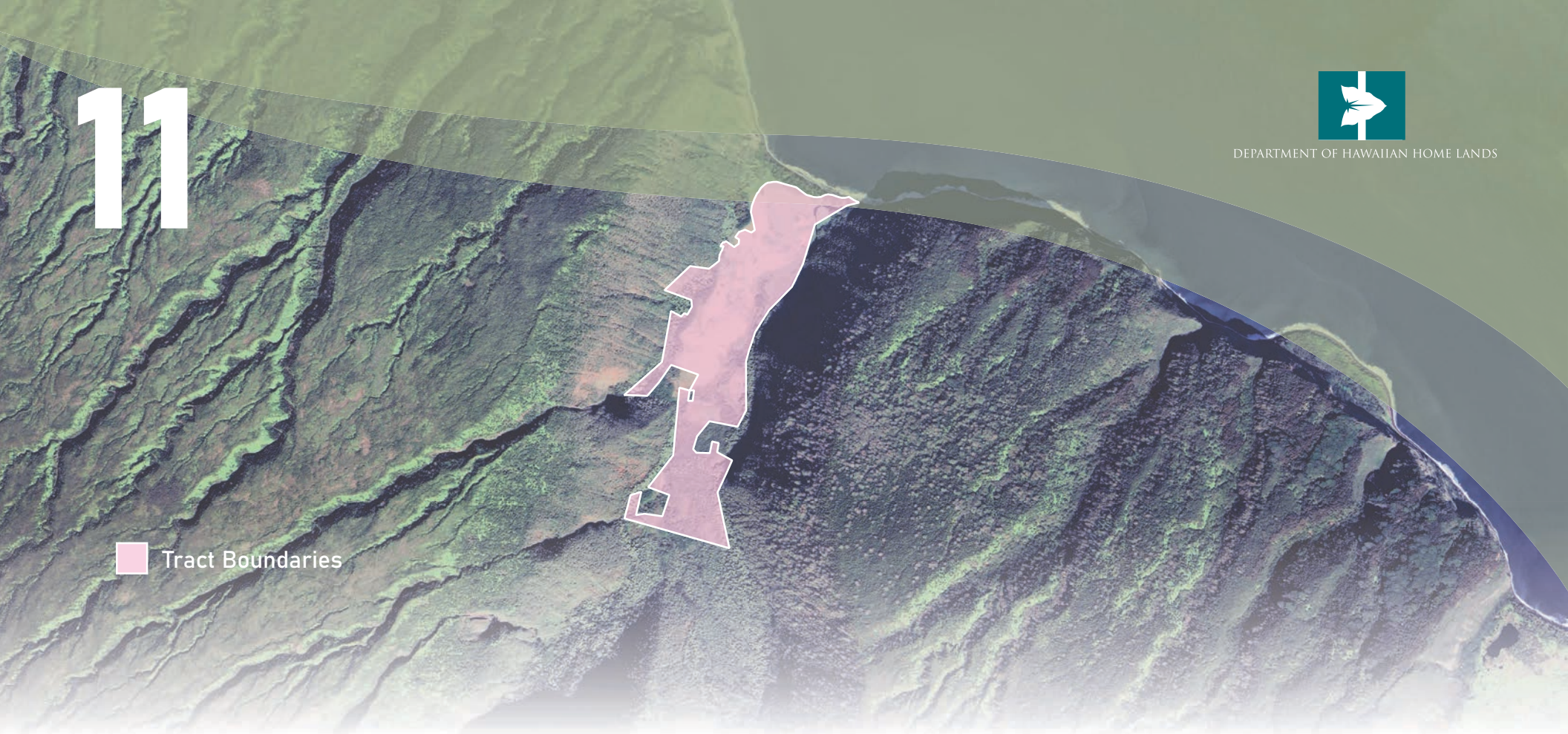
TSUNAMI
EVACUATION ZONE:

This tract is not affected by tsunami evacuation zones.

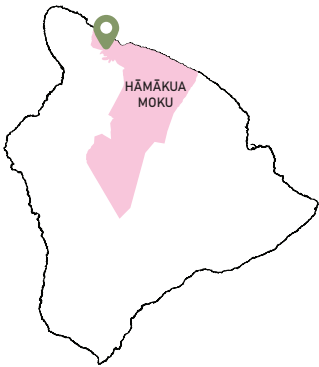
PUBLIC SERVICES

- ACCESS/ROADS:** The tract is easily accessed via Hawai‘i Belt Road and the Old Māmalahoa Highway.
- SCHOOLS:** (~3.5 mi north) Ka Hale O Na keiki preschool, Honoka’a public elementary, intermediate, and high school
- FIRE/POLICE:** (~3 mi NE) Honoka’a Station
- RESIDENTIAL:** Hāmākua is the nearest residential area to the tract which is located 2.5 miles north. This area is accessible via Hawai‘i Belt Road and the Old Māmalahoa Highway.
- PARKS/REC:** (~2.5 mi NE) Hāmākua Forest Reserve and Kalōpā State Recreation Area
(~3 mi north) Honoka’a Sport Complex and Haina County Park

- SEWER/WASTEWATER:** The nearest Wastewater Treatment Plant is 4.3 miles north.
- ELECTRICITY:** (~4 mi north) Encogen Facility
(~2.5 mi north) Honoka’a Facility
(~5.7 mi west) Pu’ukapu Facility
(~5.7 mi NE) Waipunahina Facility
- PROXIMITY TO AIRPORT** (~36 mi SE) Hilo International Airport
(~37 mi SW) Kona International Airport
(~9 mi west) Waimea Kohala Airport
- MEDICAL FACILITIES:** (~2.8 mi north)Hale Ho’ola Hamakua



| WAIMANU | Hāmākua Moku, Hawai‘i |
2002 Hawai‘i Island Plan



ACREAGE: +/- 200 acres

LAND USE DESIGNATION: +/-200ac Conservation

PROPOSED USE: Recommended for Conservation

BENEFICIARY SURVEY INPUT FOR INTEREST IN THE AREA?

The 3,600-acre Waimanu valley was proposed for designation as the Waimanu National Estuarine Research Reserve, one of 25 such reserves in the United States to be managed through a Federal and State (Natural Area Reserves System) partnership for research and education.

Given access constraints, designated conservation uses on surrounding lands, and lack of infrastructure, the Tract is considered suitable for conservation use only

RESIDENTIAL:

Kukuihaele is the nearest residential area to the tract which is located 4.5 miles east.
Hāmākua is located approximately 12 miles east and Waimea is approximately 8 miles south of the tract.

PARKS/REC:

State: Kukuihaele park and cemetery are approximately 4.5 miles east
County: Waipi'o community park and lookout are approximately 4 miles east.

**TOPOGRAPHY/
ELEVATION:**

ENVIRONMENTAL CONDITIONS

The elevation ranges from approximately 2,000 feet at the tract's western boundaries down to approximately 500 feet at the tract's eastern boundaries.
While elevations at Waimanu range from approximately sea level to 2,000 feet, slopes in the valley floor DHHL portion averages between zero and five percent.

SOILS:

The soil type is Hanalei complex all over the tract.
The Land Study Bureau (LSB) classified the entire tract as "Good".
Soils are classified as weathered bedrock

GROUND COVER:

Ground cover consists of Hawai'i Lowland Mesic Forest in north and south and Hawaiian Induced Wet Mesic Forest and Hawaiian Induced Wetland Vegetation-Herbaceous in the central area.
Vegetation is native forest and wetland

CLIMATE/TEMP:

Average temperature in the area range between approximately 73.1°F and 73.6 °F
The area is relatively wet and warm.
temperatures generally between 70 and 80 degrees Fahrenheit.

RAINFALL:

Annual rainfall ranging from between 60 and 120 inches

WIND:

The wind speed is from 2.6 mph in northern areas to 1.7 mph in southern boundaries.

**SOLAR
RADIATION:**

Solar radiation ranges from approximately 3.8 kWh/m2/day to approximately 4.4 kWh/m2/day, with more solar radiation in the northern areas of the tract.

HUMIDITY:

Relative humidity ranges from approximately 70% to 72%, with humidity tending to be lower during the midday hours and higher during night to early morning.

**STREAMS/
WETLANDS:**

The entire tract is covered with wetlands. The tract mostly consists of Freshwater Emergent Wetlands, also some Freshwater Forested/Shrub Wetlands exist in the central areas of the tract. Estuarine and Marine Wetland can be detected in northern edges close to the shoreline.
Waimanu River is the only Riverine that runs through the tract.

FLORA/FAUNA:

The tract is not designated as a critical habitat.

FLOOD ZONE:

The northern portion of the tract is designated as "VE" under the Flood Insurance Rate Map which is subject to 1%-Annual-Chance Coastal Flood, with BFE. The BFE ranges from 16' to 27' in this flood zone. In the southern edge of the Ve zone, tract is designated as "AE" under the Flood Insurance Rate Map which means 1%-Annual-Chance Flood, with BFE. The BFE in this flood zone ranges from 24' to 16'. The remaining areas of the tract is zones as "A" under the Flood Insurance Rate Map which is subject to 1%-Annual-Chance Flood, no BFE.

SEA LEVEL RISE:

The tract is projected to be affected by 3.2-ft sea level rise in northern and northeastern edges. The Potential Economic Loss is estimated to be less than \$250K.

VOLCANO HAZARD:

the tract is designated as 9 on the Volcano Hazard Zone map, which is the lowest tiers for volcano hazard.

**TSUNAMI
EVACUATION ZONE:**

This tract is not affected by tsunami evacuation zones.

PUBLIC SERVICES

ACCESS/ROADS: No Access/Road based on GIS data.
The tract is inaccessible by vehicle, but can be reached via a rigorous 7.5 mile hiking trail from Waipi'o Valley.

SCHOOLS: (~7 mi south) Punana Leo O Waimea Preschool, Kamehameha Schools, and Waimea Preschool
(~8.2 mi south)Kanu O Ka Aina Public School, Malamapoki`I Preschool, Waimea Public School, Small World Preschool, and Montessori Education Center of Hawaii-Waimea Camp (Preschool)

MEDICAL FACILITIES: (~8 mi south) North Hawai'i Community Hospital

ELECTRICITY: (~6.5 mi SE) Pu'ukapu facility
(~7.5 mi south) Kamuela facility

SEWER/WASTEWATER: The nearest Wastewater Treatment Plant is approximately 8 miles south.

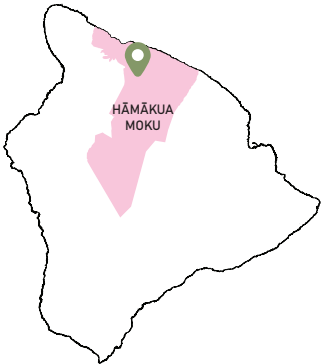
PROXIMITY TO AIRPORT (~38 mi SW) Kona International Airport
(~50 mi SE) Hilo International Airport
(~9 mi south) Waimea Kohala Airport

FIRE/POLICE: (~7.5 mi east) Waimea station
(~12.5 mi east) Honoka'a fire and police stations



Tract Boundaries

| HONOKA'A | Hāmākua Moku, Hawai'i |



ACREAGE:
LAND USE
DESIGNATION:

PROPOSED USE:

BENEFICIARY SURVEY INPUT FOR INTERST IN THE AREA:

NECESSARY IMPROVEMENTS TO ACHIEVE DESIRED OUTCOMES:

DEVELOPMENT COSTS/MANAGEMENT CONSIDERATIONS?

ENVIRONMENTAL CONDITIONS

TOPOGRAPHY/ ELEVATION:	The tract is fairly flat with topography reaching 1,500 feet above sea level.
SOILS:	One primary soil classification for the entire tract. <ul style="list-style-type: none">Honoka'a hydrous silty clay loam, warm, 10 to 20% slopes
GROUND COVER:	Hawaiian lowland mesic Forest and Hawaiian introduced perennial grassland.
CLIMATE/TEMP:	Annual Temp: 63 Fahrenheit to 66 Fahrenheit. Temperatures typically range from 55 to 80 degrees Fahrenheit. The climate is cool.
RAINFALL:	Average rainfall for the tract ranges between 95 – 100 inches of rain annually.
WIND:	The wind speed is from 6.2 mph in northern areas to 9.2 mph in southern boundaries.
SOLAR RADIATION:	Solar radiation ranges from approximately 4.5 kWh/m2/day all around the tract.
HUMIDITY:	Annual relative humidity ranges from approximately 85.5% to 86.5%.
STREAMS/ WETLANDS:	Although no streams flow through the site, the closest stream, Pap-ua'a can be found on the west end of tract flowing from the 2,000 feet elevation of the moku of Hāmākua, and down to the coast line. Secondary streams, approximately 0.75 – 1 mile from the tract are Ouli, Kukuiaonanipahu, and Kahaupu'u (classified as a gulch).
FLORA/FAUNA:	There are no critical habitat to consider within a 5 mile radius.
FLOOD ZONE:	Approximately 90% of the tract has an X flood classification, while 10% is classified as AH. <ul style="list-style-type: none">X – Outside 0.2% annual chance floodplainAH – 1% annual chance flood, flood depths of 1-3 ft, with BFE
TSUNAMI EVACUATION ZONE:	The tract is not within a tsunami evacuation zone area.
VOLCANO HAZARD:	The tract falls within lava zone 8 <ul style="list-style-type: none">Lava Zone 8 – Remaining part of Mauna Kea. Only a few percent of this area has been covered by lava in the past 10,000 years
SEA LEVEL RISE:	The tract is not identified within a sea level rise exposure or vul-nerable area.

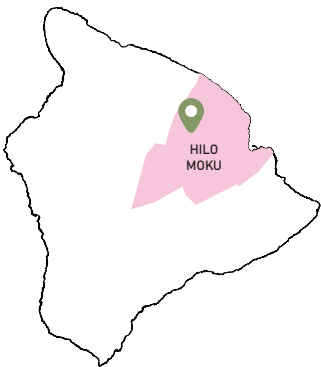
PUBLIC SERVICES

ACCESS/ROADS:	The entire tract is accessible through Hawaii Belt Rd. as a route from Hilo to Kona.	MEDICAL FACILITIES:	(0.3 mi north from center of site – Hawaiian Belt Rd.) Hale Ho'ola Hāmākua
RESIDENTIAL:	The tract itself falls south of an already established residential area in the town of Honoka'a.	AIRPORT:	(~15 mi SW) Waimea Kohala Airport (~39.5 mi SW) Hilo International Airport (~46 mi SE) Kona International at Keahole Airport
SCHOOLS:	(~0.25 mi north) Honoka'a Elementary School (~0.5 mi north) Honoka'a Intermediate and High School	PARKS/REC:	(~>0.1 mi north – bordering site) Honoka'a Sports Complex (~0.45 mi north) Honoka'a Tennis Courts (~0.6 mi NE) Honoka'a Swimming Pool (~0.75 east/SE) Honoka'a Rodeo Arena (~0.75 NE) Pa'alaea Cemetery
SEWER/ WASTEWATER:	(~2 mi north) Honoka'a WWTP	ELECTRICITY:	(~>0.1 mi west)Honoka'a SW (~1.75 mi north)ENCOGEN
FIRE/POLICE:	(~0.5 mi north) Honoka'a Police Station (~0.5 mi north/NE) Honoka'a Fire Station		



Tract Boundaries

HUMU'ULA & UPPER PI'IHONUA
Hilo Moku, Hawai'i



ACREAGE: +/-48,919.5acres (+/-32,475ac - 2002 HIP)

LAND USE +/-15,699ac General Agriculture
DESIGNATION: +/-9,023.1ac Pastoral
+/-601ac Community Use
+/-47.9ac Commercial
+/-17,641.1ac Conservation
+/-5,907.4ac Special District

PROPOSED USE: Recommended for Homestead Pastoral, General Agriculture/Pastoral, Commercial, Conservation, and Special District Uses

FLORA/FAUNA:

The northern and western portions of the tract near Mauna Kea are designated as critical habitats for the critically endangered Palila (Hawaiian honeycreeper), which can only be found on the slopes of Mauna Kea. Downstream of the tract to the east and southeast are critical habitats for 'Oha wai, Kiponapona, Haha, 'aku'aku, Maunaloa silversword, Ha'iwale, and the Hawaiian picture wing fly.

The property harbors several rare and endangered species such as the Hawaiian Hawk (I'o), Hawaiian Duck (Koloa), Hawaiian Goose (Nēnē), and native honeycreeper species (Mamane and Palila). Koa trees are also present.

SEA LEVEL RISE:

The tract is not projected to be affected by sea level rise.

VOLCANO HAZARD:

In Upper Pi'ihonua, most of the tract is designated 8 on the Volcano Hazard Zone map with a southwest portion of the tract designated 7, which are among the lowest tiers for volcano hazard.Humu'ula is designated as 3 on the Volcano Hazard Zone map.

TSUNAMI EVACUATION ZONE:

This tract is not affected by tsunami evacuation zones.

TOPOGRAPHY/
ELEVATION:

SOILS:

GROUND COVER:

CLIMATE/TEMP:

RAINFALL:

WIND:

SOLAR
RADIATION:

HUMIDITY:

STREAMS/
WETLANDS:

FLOOD ZONE:

ENVIRONMENTAL CONDITIONS

The tract is located at a high elevation near the peak of Mauna Kea. The elevation ranges from approximately 5,000 feet at the tract's eastern and southern boundaries up to approximately 9,500 feet at the tract's northern and western boundaries toward the peak of Mauna Kea.

This is high country, with elevations varying from approximately 5,800 feet at the southeast end of the property to 9,500 feet at the west boundary. Slopes in both parcels range from 10 to15 percent.

Soil types within the tract vary and include Pu'u O'o silty clay loam for most of the eastern portion of the tract. Other soil types include Pu'u O'o rock outcrop and various Laumaia silt loams and toward the western portions of the tract. Huikau ashy sandy loam and various lava flow complexes are present at the southern end of the area as well as at the western edge of the northern portion of the tract. The soil within the tract is could potentially be suitable for agriculture, with most of the land classified as 'Other ALISH' by the Agricultural Lands of Importance to the State of Hawai'i (ALISH) and some of the lands on the eastern fringes classified 'C' (Fair) by the Land Study Bureau (LSB).

Ground cover for the area consists mainly of Hawaiian Introduced Shrublands with some subalpine forest and woodland.

Vegetation in the area is mostly shrubs and gorse. If the gorse continues to grow and cover the land, it could disturb the ecological balance and the growth of other plants, resulting in loss of productive use of the area.

Average temperatures in the area range between approximately 46°F and 56°F, with colder temperatures in the winter months and higher elevations and higher temperatures in the summer months and lower elevations.

Average low temperatures range from 58°F at 5,000 feet to 45°F at 9,000 feet.

Average annual rainfall varies from 120 inches in the lower elevations to 40 inches in the upper elevations. The land above 7,000 feet elevations is very dry most of the year due to high evaporation rates.

Wind speeds and direction for the tract vary highly, with minimum wind speeds of about 2.5 mph in the eastern and lower-altitude portions of the tract and maximum wind speeds of about 10 mph at the southwestern end of the tract. Wind speeds tend to be higher with higher elevations. Nighttime and early morning winds originate east of the tract and move offshore as well as westward through the tract and around the peak of Mauna Kea. Daytime winds mainly take the shape of tradewinds, coming from offshore to the east and moving westward/mauka.

Solar radiation ranges from approximately 6.5 kWh/m2/day to approximately 4.5 kWh/m2/day, with more solar radiation in the western and mauka areas of the tract. Solar radiation reaches as low as 3.7 kWh/m2/day during the winter months.

Relative humidity ranges from approximately 58% to 81%, with humidity tending to be higher during the midday hours and lower during night to early morning. Relative humidity is lower at higher elevations and higher in lower elevations of the tract.

Multiple tributaries of Wailuku River run through the tract, originating towards the peak of Mauna Kea. Tributaries of Umauma, Kolekole, and Kapue Streams originate within the tract and run west to east (mauka to makai). Ka'ula Gulch originates near Mauna Kea Peak and runs along the northern end of the tract, constituting its northern boundary. There are multiple Freshwater Ponds throughout the tract as well as Riverine wetlands along all stream corridors.

Most of the tract is designated as 'X' under the Flood Insurance Rate Map, which is subject to a less than 0.2% chance of annual flood risk and is considered low- to moderate- risk. Portions of the tract at its southern end and southwest are designated as 'D,' or unstudied.

PUBLIC SERVICES

ACCESS/ROADS: Saddle Road provides access to the southern portion of the tract while Mauna Kea Access Road and Mana Road provides access to the tract north of Saddle Road.

SCHOOLS: (~14 mi east) Kaumana Elementary

PARKS/REC: Gilbert Kahele Recreation Area is directly to the west and adjacent to the tract.

SEWER/WASTEWATER: (~10 miles SE) Kulani Correctional Facility Wastewater Treatment Plant
**Any wastewater generated on the parcel would require cesspools or septic tanks for treatment.

WATER: Water catchments provide the bulk of water in the area

PROXIMITY TO AIRPORT: (~18 mi east) Hilo International Airport

FIRE/POLICE: The nearest fire stations are approximately 10 miles south-east and 15 miles northwest of the tract. The nearest police station is located approximately 16 miles east of the tract in Hilo.

MEDICAL FACILITIES: (~15 mi east) Hilo Medical Center

ELECTRICITY: There are two substations north/northwest of the tract near the Gilbert Kahele Recreation Area: Hale Pohaku Substation along Mauna Kea Access Road and Pohakuloa Substation along Saddle Road. Kulani Substation is also located south of the tract.

RESIDENTIAL: The nearest residential areas to the tract are Waimea, approximately 20 miles to the northwest and accessible via Mana Road, and Hilo approximately 14 miles to the east and accessible via Saddle Road.

DEPARTMENT OF HAWAIIAN HOME LANDS
HAWAI'I ISLAND PLAN UPDATE
BENEFICIARY MEETING, ROUND 2
KOHALA & HĀMĀKUA – KŪHIŌ HALE DHHL WEST HAWAI'I OFFICE
APRIL 10, 2025
ATTACHMENTS TO SUMMARY

ATTACHMENT D:
Comment Cards



Comments:



1

KAWAIHAE



2

'UPOLU POINT



3

PAUAHI



4

KEONIKI



5

LĀLĀMIHI



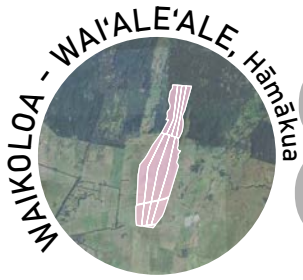
6

PU'UKAPU



7

KAMOKU - KAPULENA



8

WAIKOLOA - WAI'ALE'ALE



9

HONOKĀIA



10

NIENIE



11

WAIMANU



12

HONOKA'A



13

HUMU'ULA + UPPER PI'IHONUA