# Ualapu'e Kuleana Homestead Subsistence Project by Ahonui Homestead Association 2019

Project area to include the following Tax Map Key (TMK) Parcels:

(2) 5-6-006:017
(2) 5-6-006:040

- (2) 5-6-002:001
- (2) 5-6-002:024
- (2) 5-6-002:025
- (2) 5-6-002:026
- (2) 5-6-002:027
- (2) 5-6-002:036

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Subject.	(DCT0RNRc) Langue TMRa Consideration
in manage	p Department Mark, Andrew, Gg, and Julia
Premi Cara Cap	anda Schnachanlang, President of Ahanu Hamedead Association, Shitekal
NE: Unitarior o	n (Josepa Renewal/New Josepa request for TMNR (225-6-002-003
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	approved on 2/2020 by Revollen Homes Consistioners.

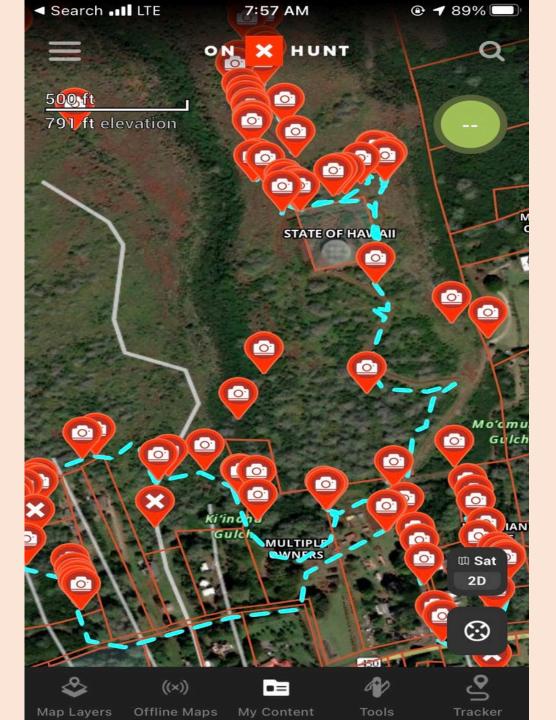
I would appreciate your consideration on this matter and request

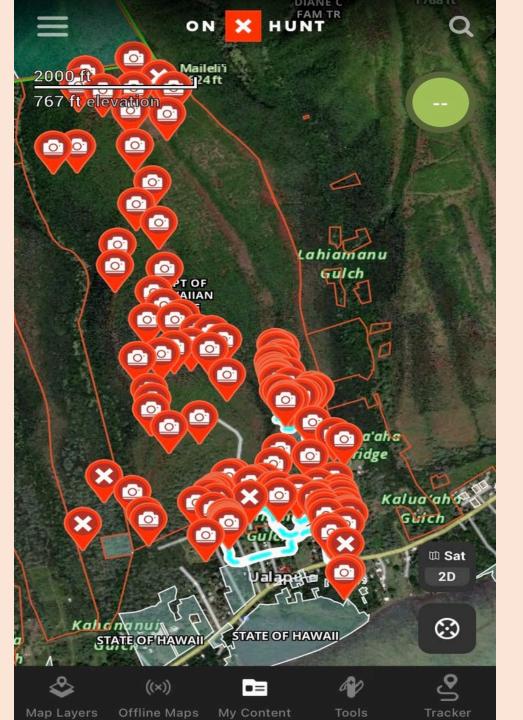


## Cultural Resource Management Task Force

- Task Force: Dickenson Stone
- Christopher Chang
- William (Kupuna Kekauoha)
- Gavin Pelekane-Tamashiro
- Phillip "Mango" Stephens
- Antonette Yamamoto
- Sybil Lopez
- Sam Pedro
- Pat Tamashiro
- Cora Schnackenberg
- Members/Volunteers









# Land Erosion above water tank



• TMK17 Behind water tank

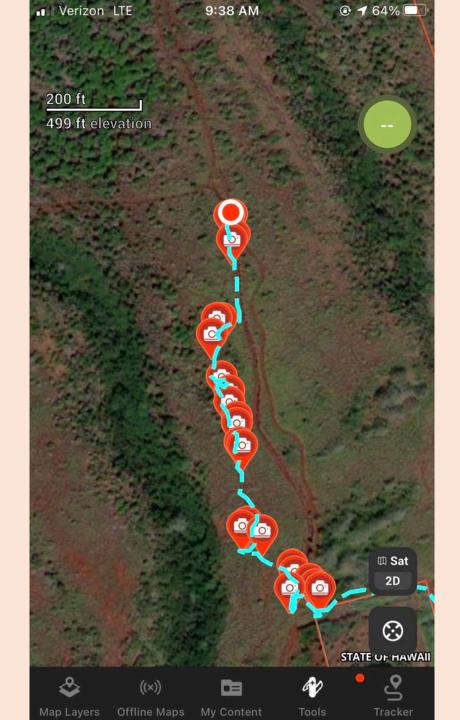


- Walked from westside crossing riverbed onto TMK17
- Midway of TMK17

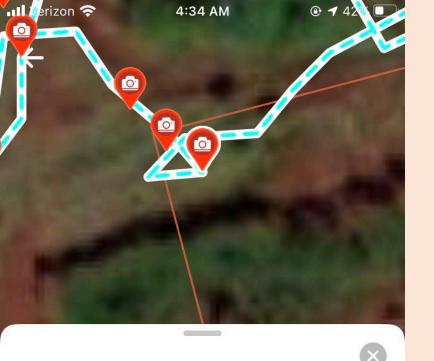




- 6-foot fence
- North side of fence is 8-12 inches from ground to top
- South side of fence clear 5-6 foot high







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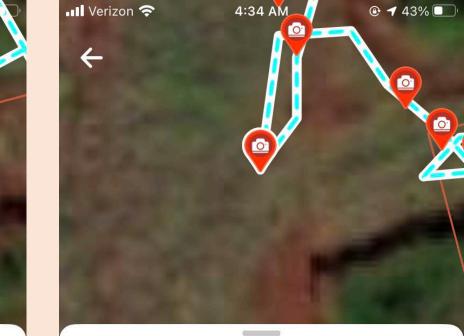
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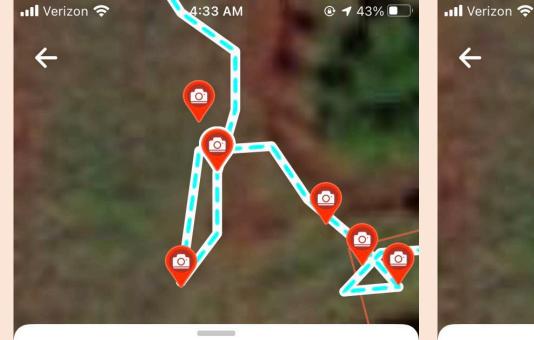
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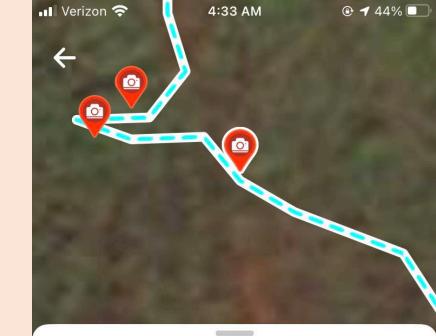
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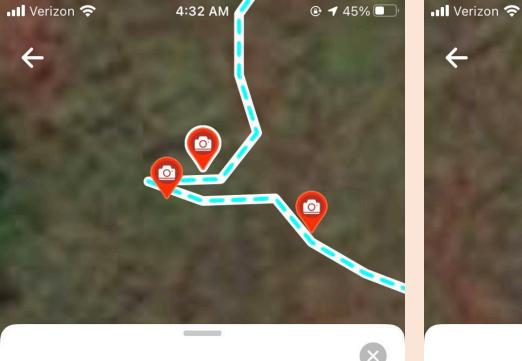


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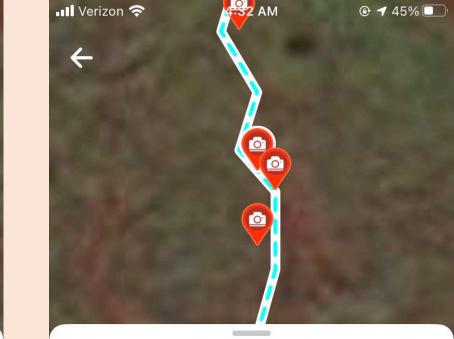


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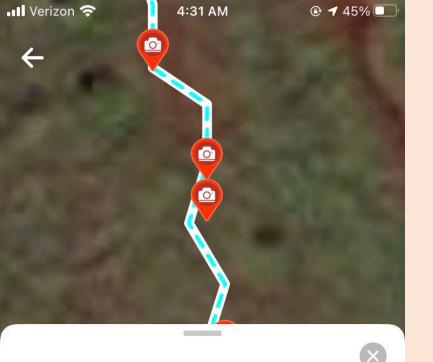
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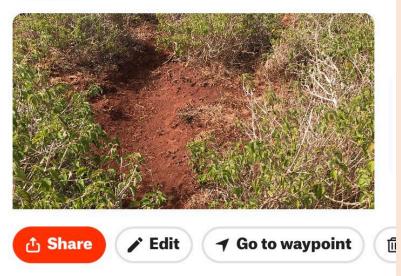


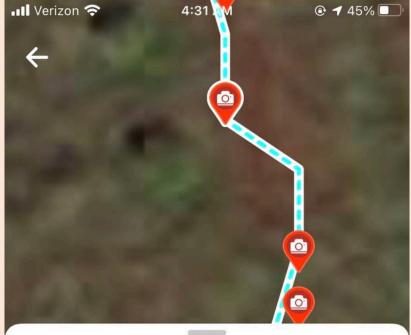




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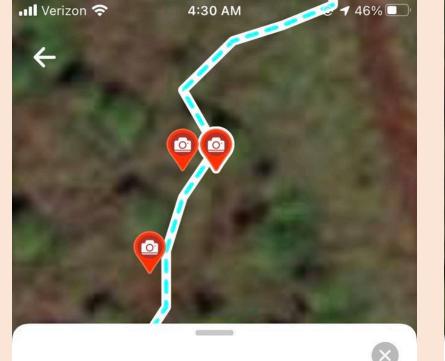
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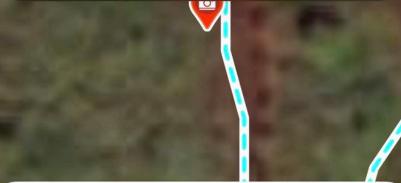
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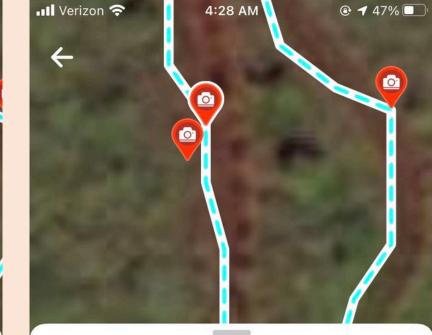
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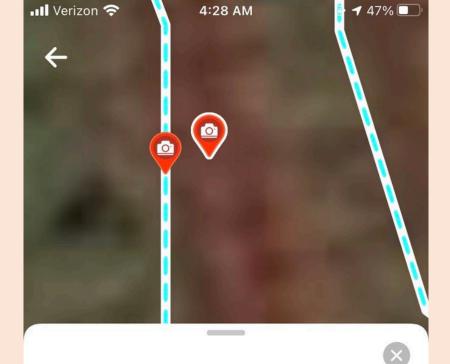


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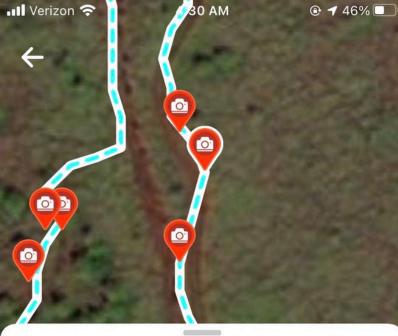


#### **RUN OFF**



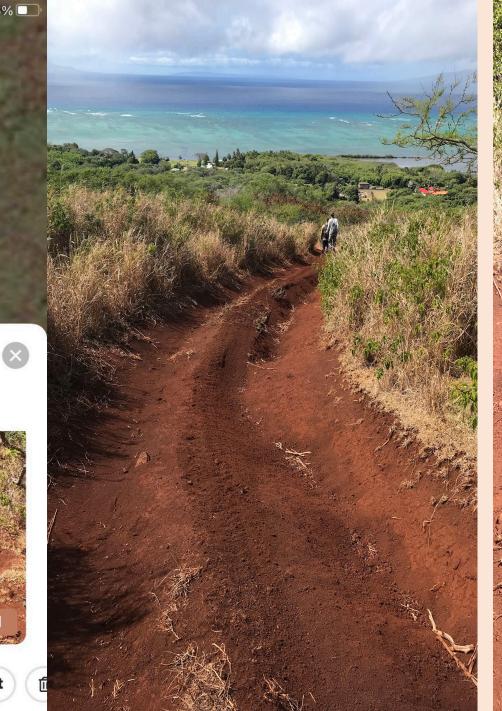


- Located on TMK17
- Run-offs turns into streams during hard rain.



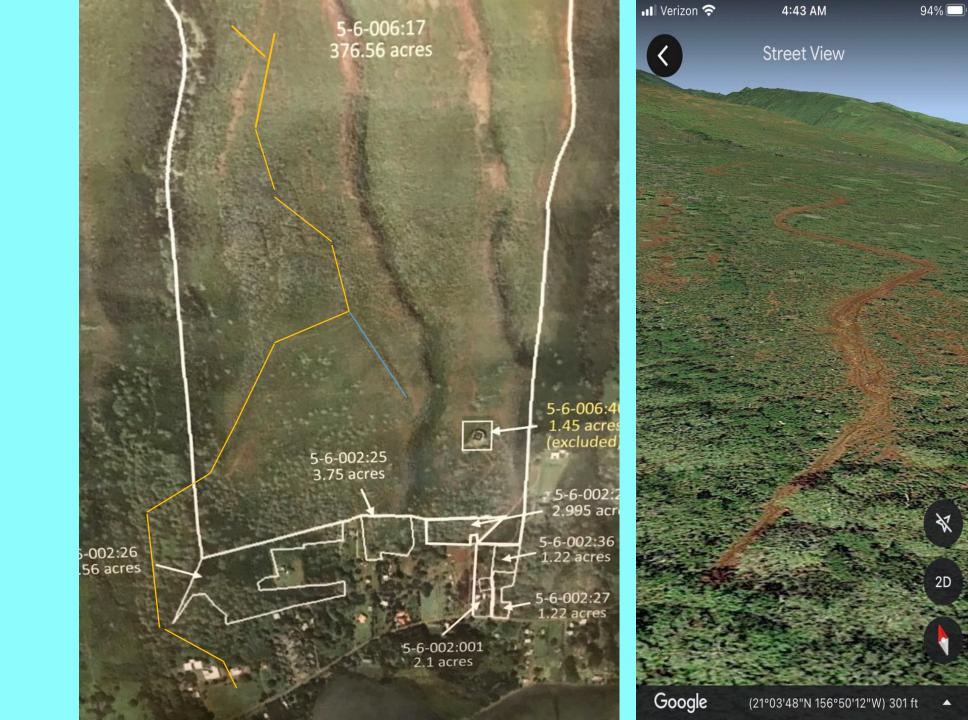


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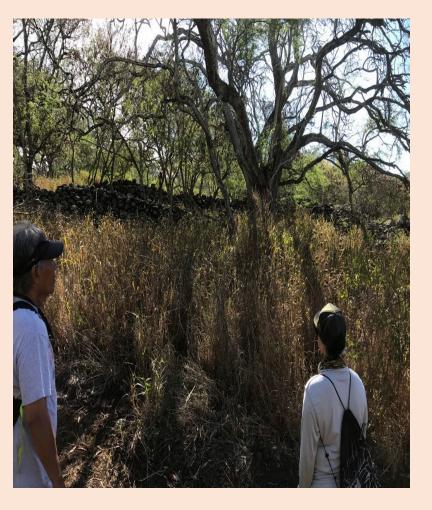




- Walking on • Westside of TMK17, after the Mana'e Cemetary
- Pass the Kapa Heiau
- Taking a right passing through the riverbed onto TMK17 following dirt road



-



- Westside of riverbed NOT on DHHL boundary
- Kapa Heiau



- Westside NOT on DHHL boundary
- Ualapue Cemetery
- Before Kapa Heiau









 Crossed riverbed from west to east onto DHHL TMK17

• Standing in the riverbed





• Crossed riverbed from westside to eastside onto TMK17 of DHHL boundary



• Crossed riverbed to TMK17



• TMK17 on dirt road heading North elevation 500

• Westside of TMK17 on dirt road elevation 400





• Northwest from dirt road, toward the riverbed

• Standing on the dirt road, run-off toward Northwest toward riverbed



• TMK17 on dirt road heading North elevation 200-300







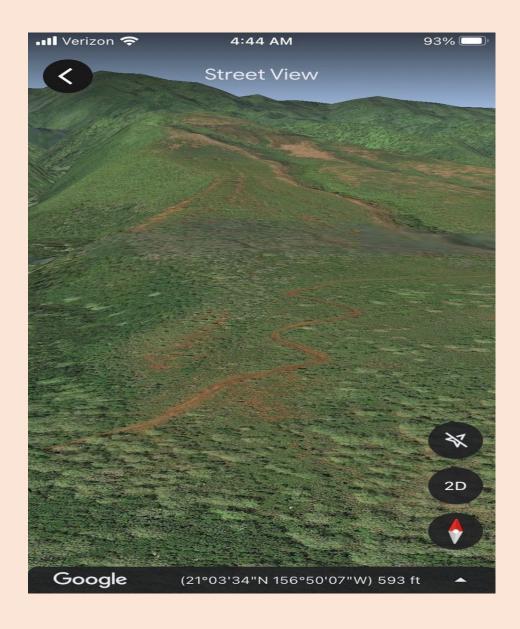
TMK17 Upper Mid North-East heading West run-off.



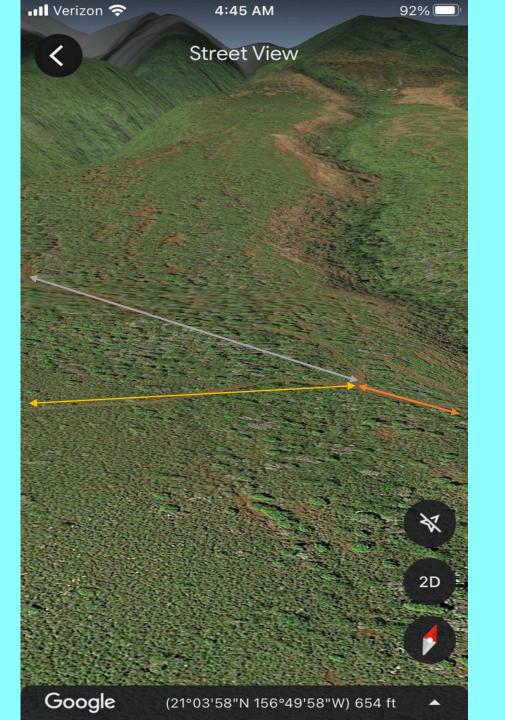
• TMK17 North-West

When it rains hard water will discharge creating a pathway.





• Behind water tank, westside



- Crossroads from West (yellow), North (grey), and South (orange)
- Located on TMK17 Mid-central





• TMK17 West to Mid-East (yellow line)

• TMK17 Mid-center from yellow line to North-west (grey line)

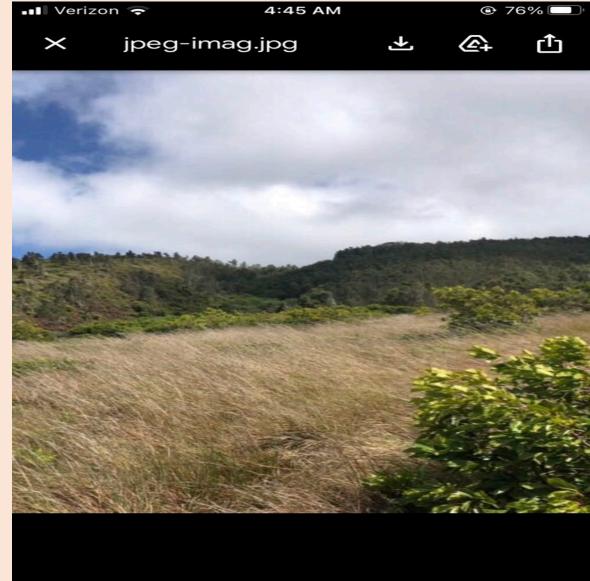


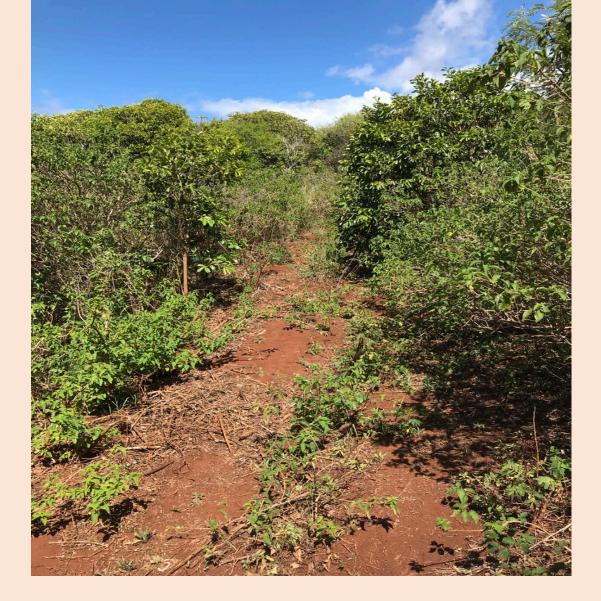
- TMK17 "Y" in road Mid-center where yellow line, grey line,
- and East-south orange line meet

• TMK17 North-west on grey line









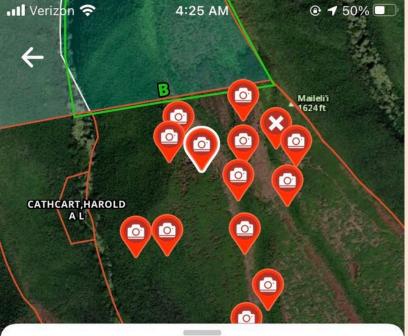












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# **Invasive Plants**

- Christopher's Group:
- Invasive & Native Plants
- Run-off/Erosion







#### Plant name: Castor bean (Ricinus communis)

**Elevation:** low-drylands forests

#### **Description:**

- originally from Africa, now found on all islands
- classified as "High Risk" by the Hawaii-Pacific Weed Risk Assessment and should not be cultivated
- was used as ornamental
- frequently found in vacant urban lots, forest edges, roadsides, and waste areas
- seeds can be moved by vehicles, soils, rodents, birds, and some ants
- height can crowd out other vegetation

- physical hand-pulling (seedlings)
- chemical herbicide

**Plant name:** Christmas berry (*Schinus terebinthifolia*)

Elevation: low-mid elevations

**Description:** 

- native to Brazil
- Widespread invasive species in Hawai'i
- Spread through fruit-eating birds/mammals
- Outcompetes natives for water resources
- Shades out other plants (suppressing growth)

- physical hand pull seedlings and saplings
- chemical herbicide



#### Plant name: Different types of senna

**Elevation:** low to mid elevation pastures and disturbed areas

#### **Description:**

- native to Australia or Southeast Asia
- grassland, forest edges, riparian habitats, floodplains, disturbed sites
- introduced, cultivated, invasive
- not grazed by cattle
- shades out other plants

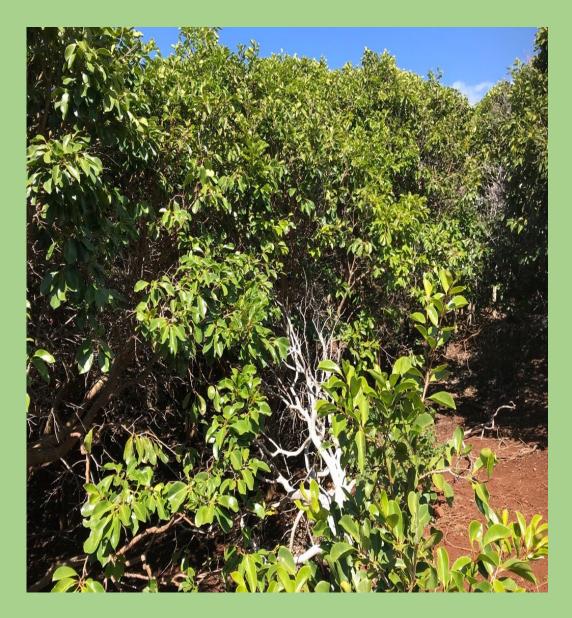
#### Management:

chemical - herbicide





#### icklepod (Senna obtusifolia)



Plant name: Strawberry guava (*Psidium cattleianum*) Waiawī/Waiawī 'ula'ula

Elevation: sea level-4,000 ft.

#### Description:

- brought to Hawai'i for fruits and ornamental use
- one of the most destructive species (spreads rapidly)
- infests wet 'ōhi'a and koa forests
- forms dense thickets
- destroys habitats for native birds and insects
- robs water resources

#### Management:

 cut stems and spray herbicide (repeated treatments due to re-sproutting)



#### Plant name: Java plum (Syzygium cumini)

**Elevation:** dry to mesic and more rarely wet lowland areas up to 2,300 ft.

#### **Description:**

- native to India, Bangladesh, Nepal and Indonesia
- used for fruit, timber and as an ornamental
- animals spread seed
- shades out other vegetation

#### Plant Management:

- physical hand-pulling
- chemical herbicide

Plant name: Prickly pear cactus (Opuntia ficus-indica) Pānini

Elevation: dry lowland-2,640 ft.

#### **Description:**

- introduced from Mexico
- found in dry areas
- seeds dispersed by animals
- dislodged stem segments can regenerate
- may out-compete certain native plants and upset local ecosystems

- physical cut/dug out
- chemical herbicide



Plant name: Candelabra cactus (Euphorbia lactea)

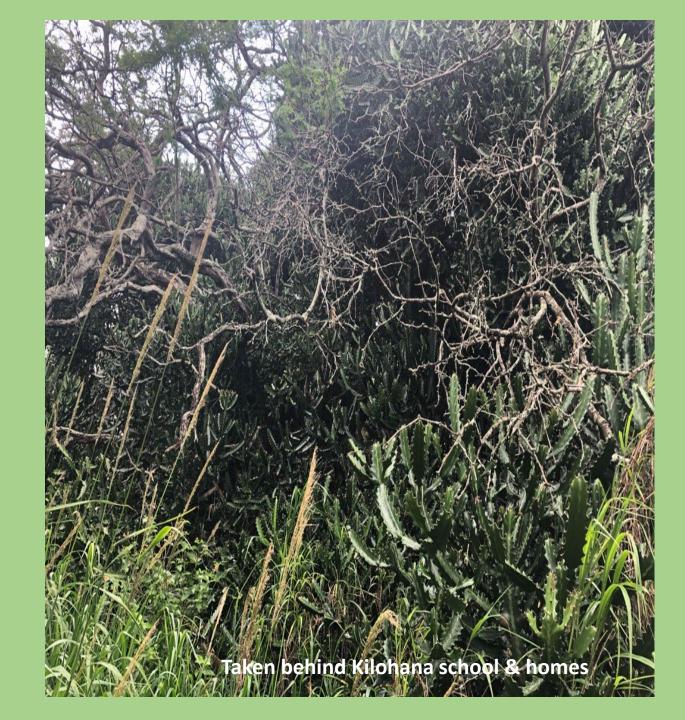
Elevation: low elevation

#### **Description:**

- introduced, cultivated, invasive
- can form dense thickets

#### Management:

• Cut/herbicide





#### Plant name: Common lantana (Lantana camera)

Elevation: beach zone - 1000+ ft.

#### **Description:**

- native to Central and South Africa
- shrub
- can grow 6 feet tall or more
- poisonous to livestock \*
- birds disperse seed

- physical cut
- chemical herbicide



Plant name: Balloon cottonbush (Asclepias physocarpa)

Elevation: low elevation, dry habitats, occasionally up to 1,830 m

#### Description:

- grows in waste places, disturbed sites, open woodlands, grasslands, wetlands, and along roadsides
- seeds spread by wind
- invades active pastures, sugarcane plantations, coastal and dry forests

- physical hand pull seedlings
- chemical Mature plants may be herbicide-tolerant. Higher, unstated rates of metsulfuron reported effective

# Native Plants

Plant name: 'Ūlei / Eluehe (Moloka'i) (Osteomeles anthyllidifolia) Hawaiian hawthorn / Hawaiian rose

Elevation: sea level - 7,600 ft.

Description:

indigenous
found in dry to mesic forests
needs full sun
shrub/tree (~2 ft-30 ft)
flowers are slightly fragrant (like a rose)

#### Uses:

wood used for 'ō'ō (digging sticks), ihe (spears for lu'u he'e)/games and sports, kapa beater, 'ūkēkē (musical instrument), 'auamo (carrying poles for water and food)
short tapered sticks used for pahe'e
fruit used to dye kapa
branches used for making round fish nets
flowers and fruit used for lei-making
medicine: laxative for babies & deep cuts







Plant name: Mimosa/Persian silk tree (Albizia julibrissin)

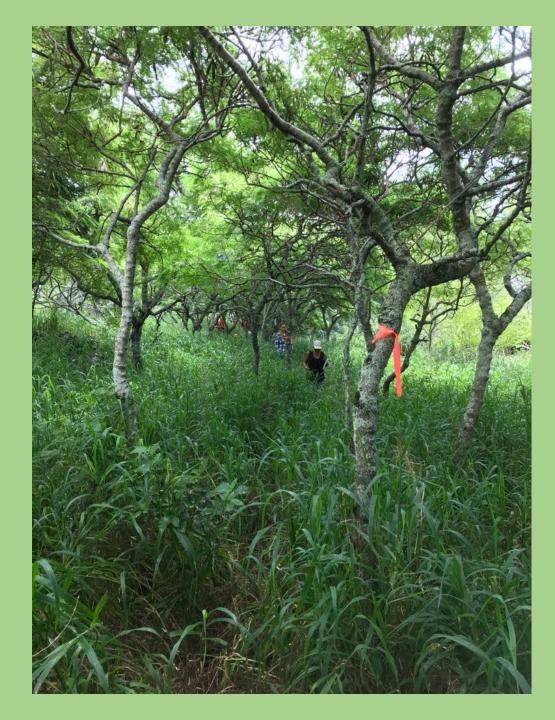
Elevation: low-mid elevation

#### **Description:**

- fast growing
- seeds spread easily through wind and water
- strong competitor with native trees and shrubs
- reduces sunlight and nutrients for other plants
- root systems are very invasive (can lift and crack concrete)
- seedpods are poisonous to livestock, pets, and children

#### Management:

• chemical - herbicide



Plant name: koa haole (Leucaena leucocephala)

Elevation: dry lowlands-lower mountain slopes (2,500 ft)

#### **Description:**

- native to Central America
- brought over for cattle
- grows up to 6-30 ft (extremely fast grower)
- grows in dry forests
- seeds dispersed by wind, rain, birds, and cattle
- canopy prevents sunlight for other plants

- physical hand-pull
- chemical stump cut & herbicide





Plant name: Common kiawe (Prosopis pallida)

Elevation: sea level-2,300 ft

#### **Description:**

- native to Africa
- brought for cattle
- can grow as a shrub or tree (6-30ft)
- thorns have poisonous tipped ends
- grows in dense thickets
- shade prevents sunlight for native plants
- long taproot that can reach water tables
- deprives other plants from water

- physical hand-pull
- chemical stump cut & herbicide

Plant name: Lion's ear (Leonotis nepetifolia)

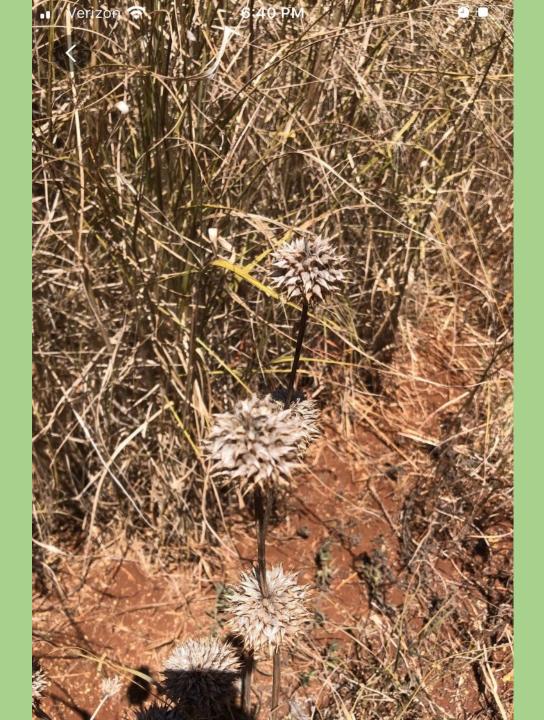
Elevation: low lands

**Description:** 

- native to Africa
- dry to occasionally wet sites
- grows along road shoulders, in abandoned fields, in disturbed areas, and waste lands

#### Management:

• physical - hand-pull



# Native

Plant name: 'Ākia (Wikstroemia uva-ursi)

Elevation: 10ft-1375ft

#### **Description:**

- endemic \*
- shrub (2-6 ft)
- can grow up to 5 ft in width
- companion plants 'Ilima, 'a'ali'i, kupukupu, pōhinahina, 'ilie'e, 'ūlei, and kuluī
- salt, wind, drought, heat tolerant

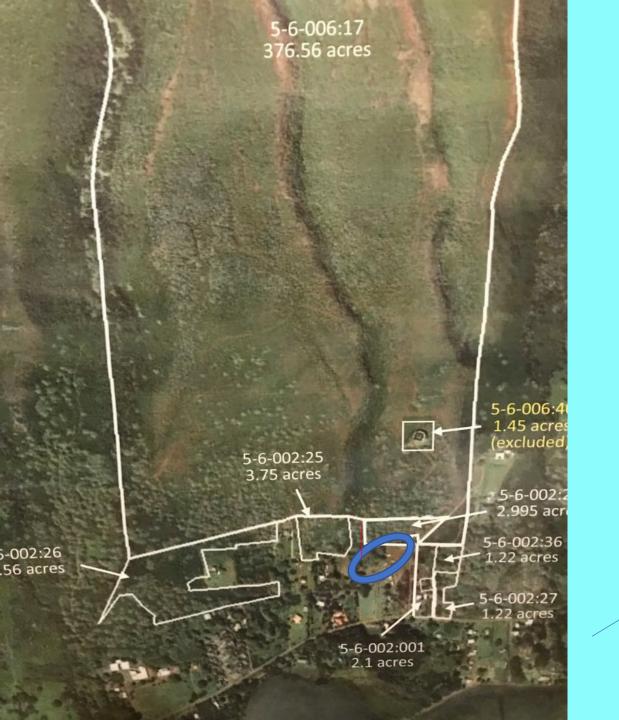
#### Uses:

- ground cover
- fish poison
- fiber material for ropes
- wood used for 'auamo (carrying sticks)
- medicine laxative & nae kūlou (shortness of breath)
- lei-making



Any Questions?

### TMK17, TMK26, TMK36, TMK27





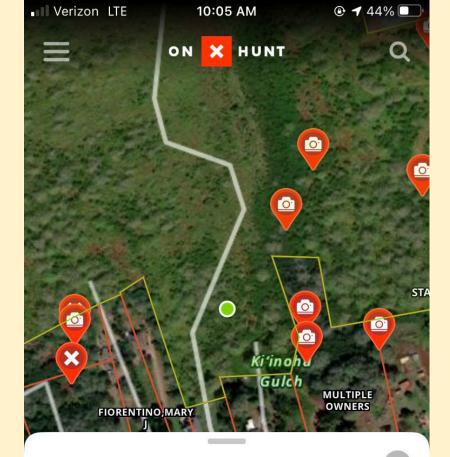
### Lower Boundary TMK17





5-6-006:17 376.56 acres





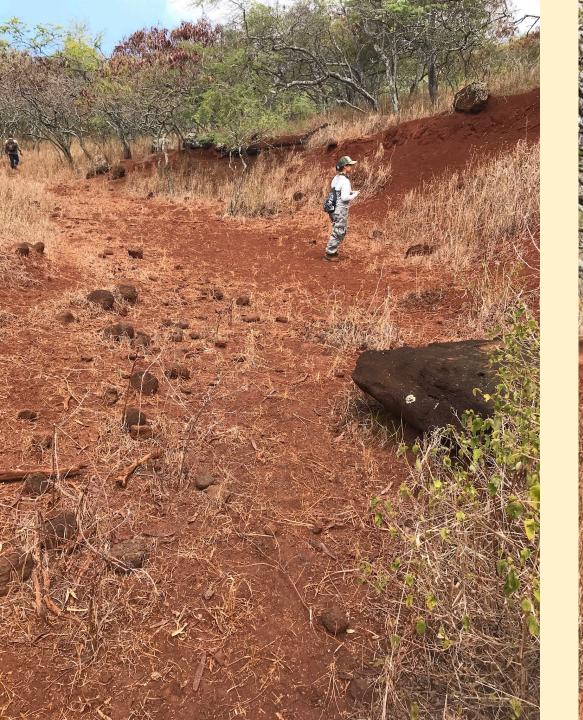
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**Overview Weather** 

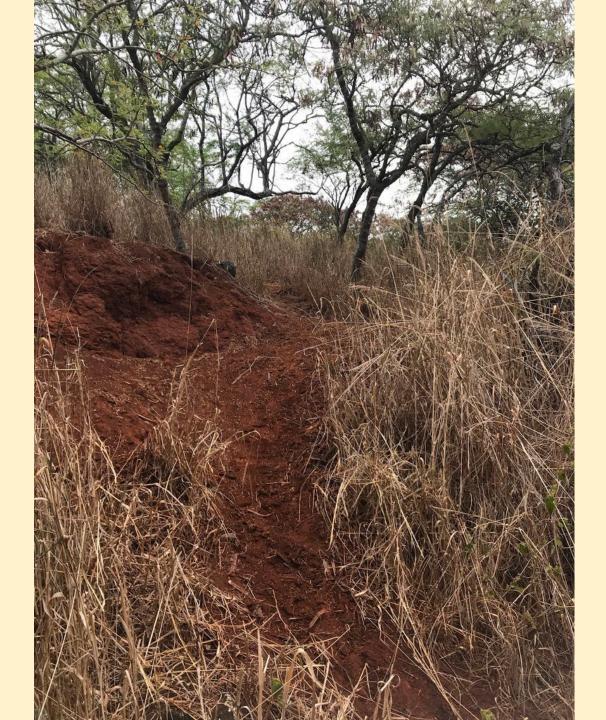
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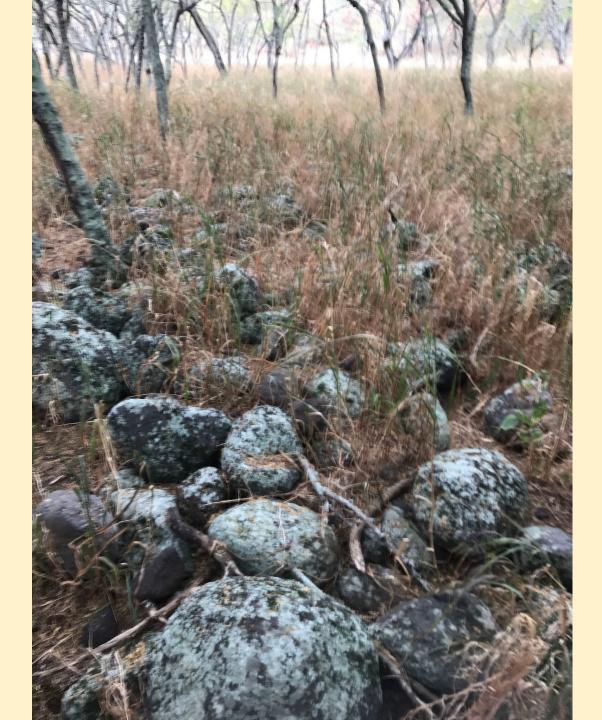
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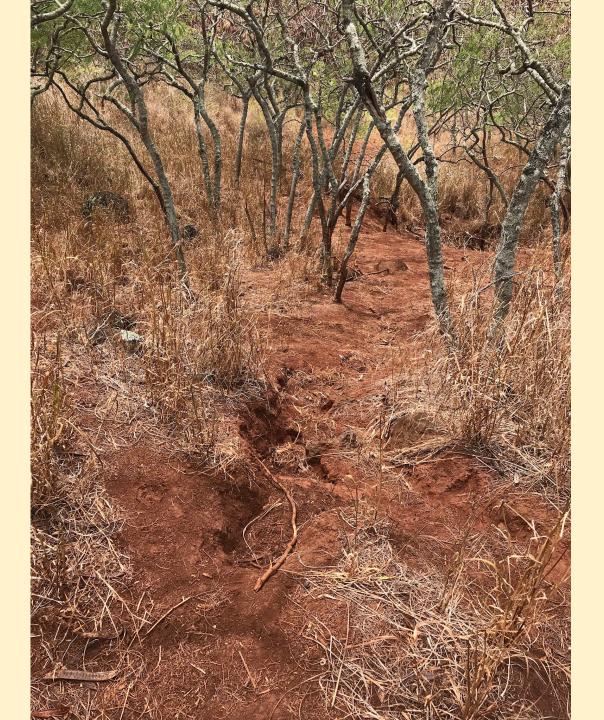




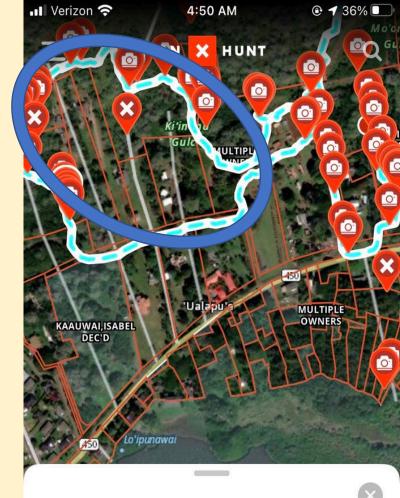












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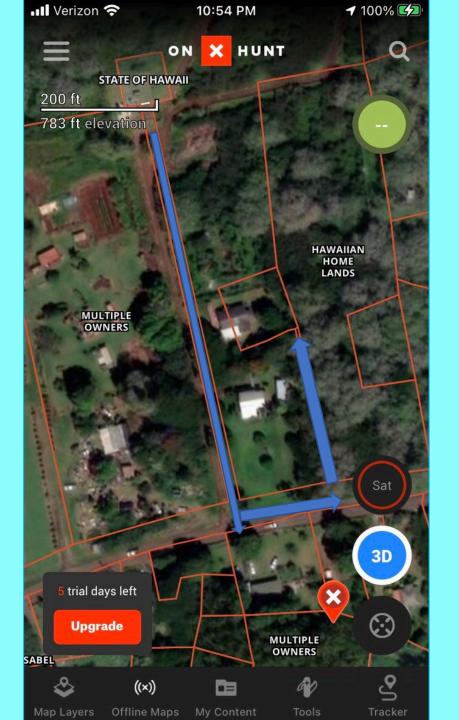






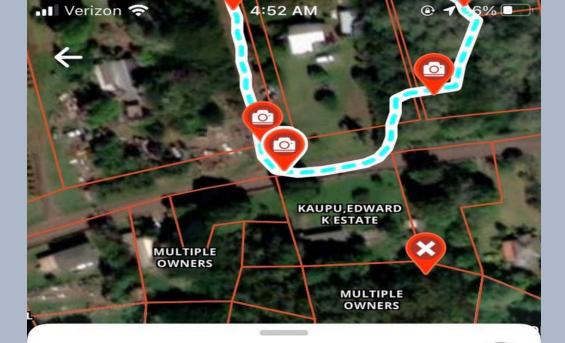








- From TMK17 water tank on government road
- Side road passing potential Maui County Substation Fire Dept.
- Next door to Hale Pomaikai TMK#01
- Around Hale Pomaikai to TMK#27 and TMK36

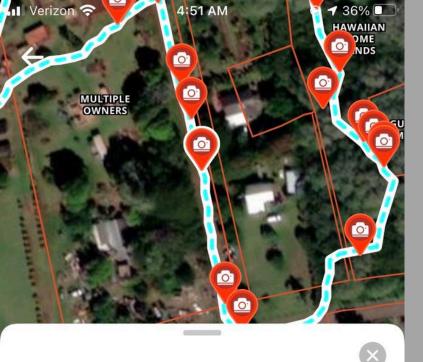


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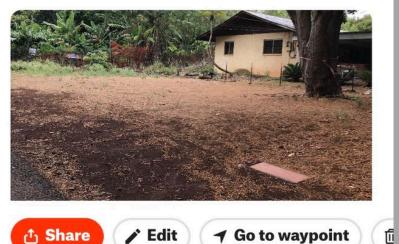
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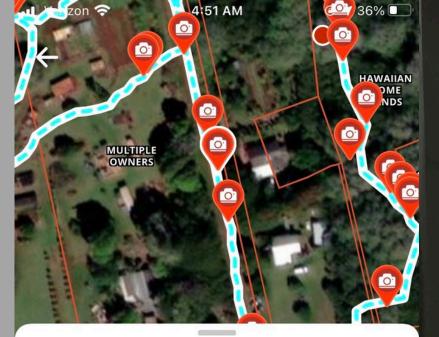
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#### Waypoint 07/03/21 11:45 Photos



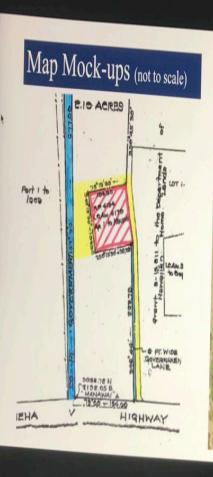


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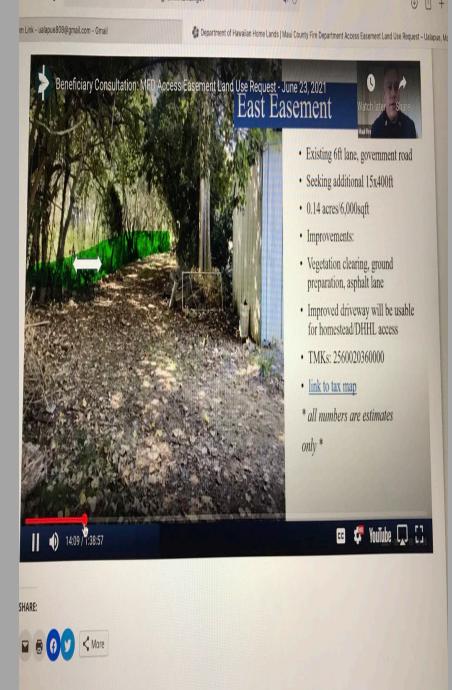


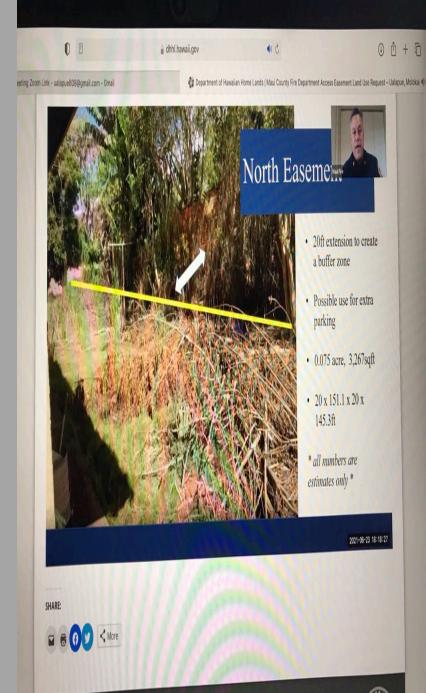
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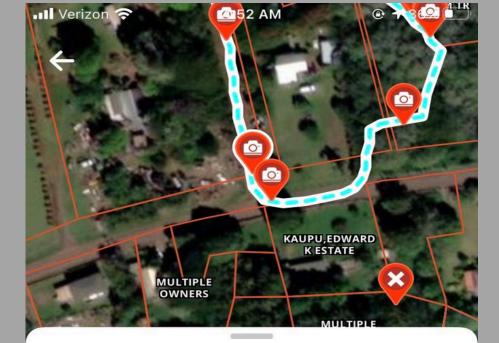
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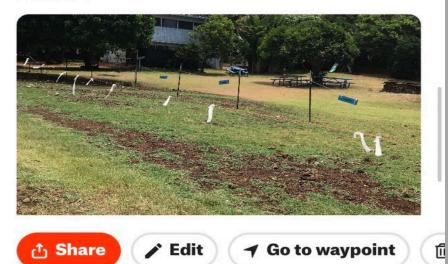






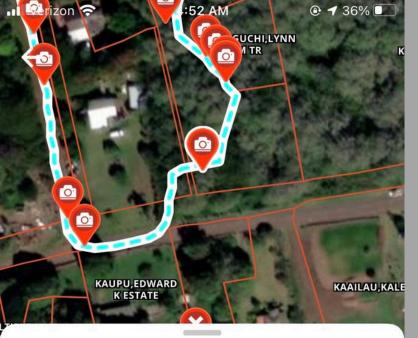
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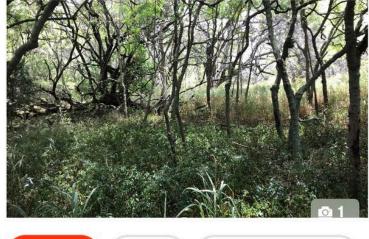








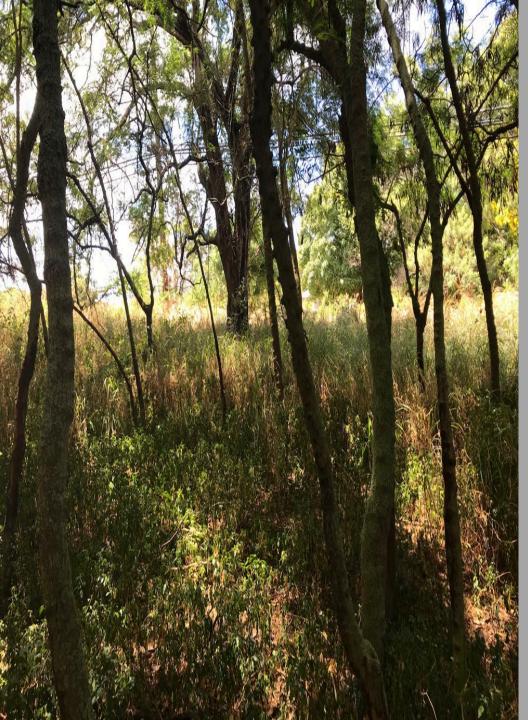
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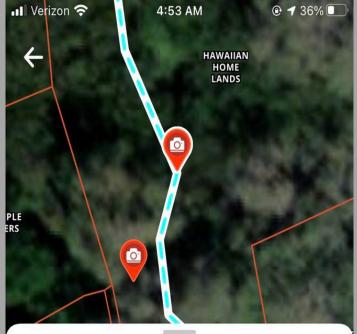


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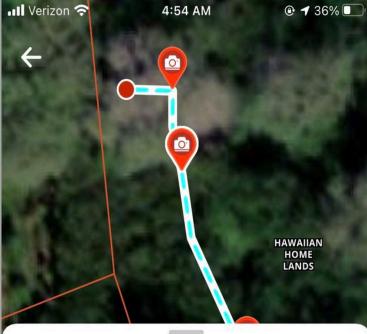




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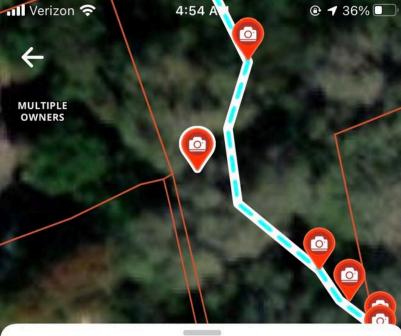
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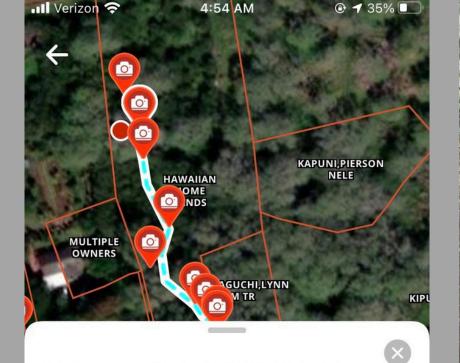
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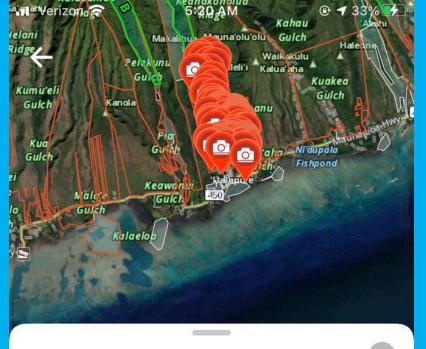
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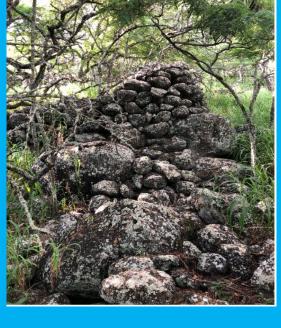
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5-6-006:17 376.56 acres

> 5-6-006:4 1.45 acres (excluded

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5-002:26 56 acres 5-6-002:25 3.75 acres 5-6-002:2 2.995 acro 5-6-002:36 1.22 acres 5-6-002:27 1.22 acres

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5-6-002:001 2.1 acres

### Significant Sites

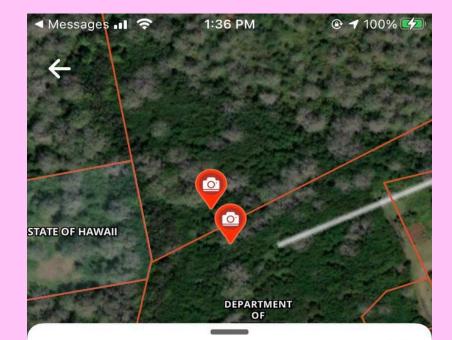












# Waypoint 05/01/21 09:22

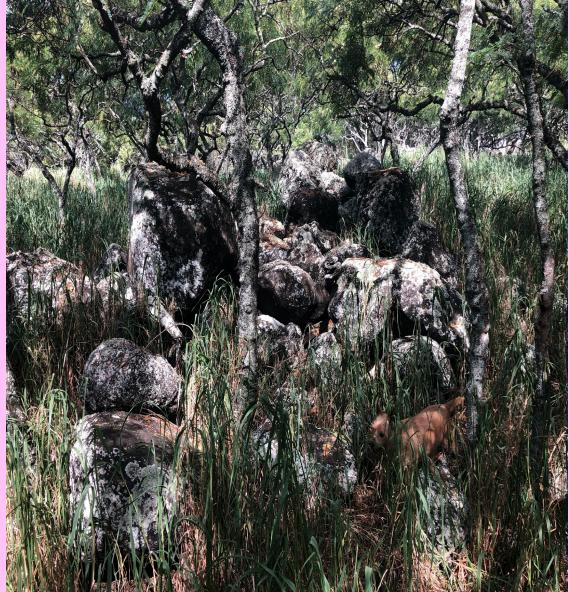


Delete

X

🕈 Go to waypoint









# Waypoint 05/03/21 14:48

X

5-002:26 .56 acres



- Behind Kilohana School
- Old piggery trough made by cement.

🕇 Go to waypoint 🕅 Delete

5-6-006:4 1.45 acre (excluded

5-6-002:25 3.75 acres

5-6-006:17

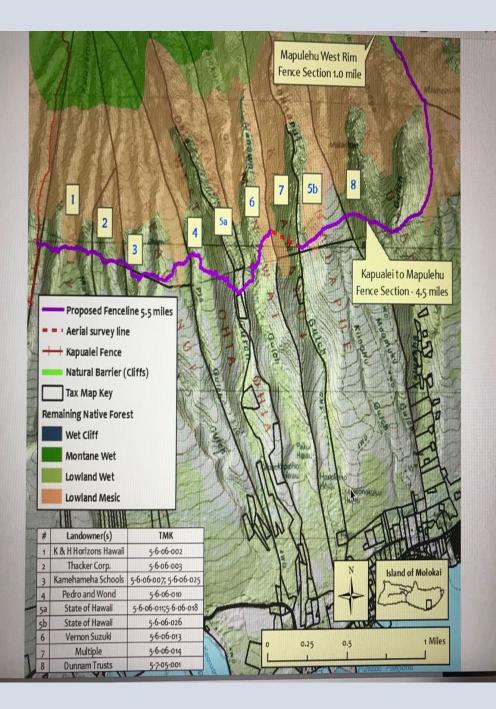
376.56 acres

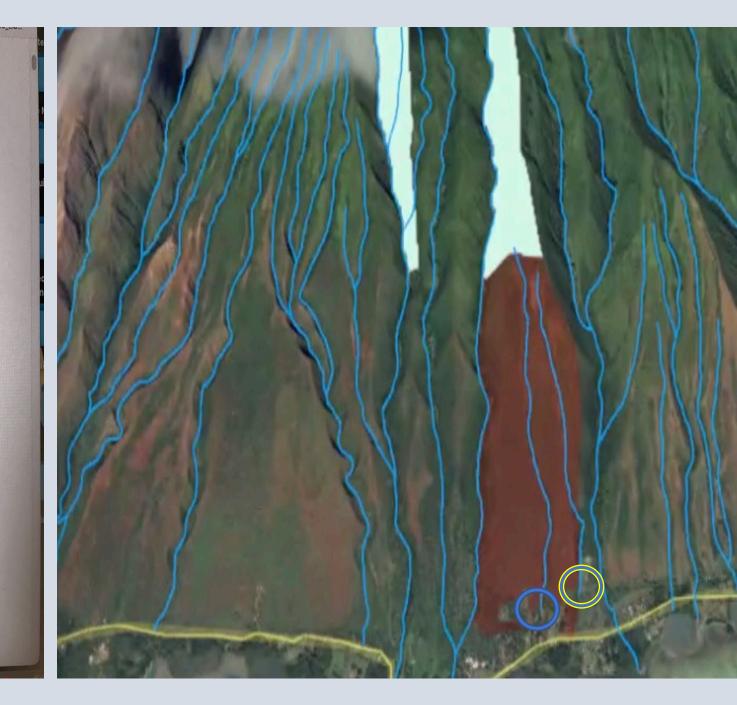
5-6-002: 2.995 acr

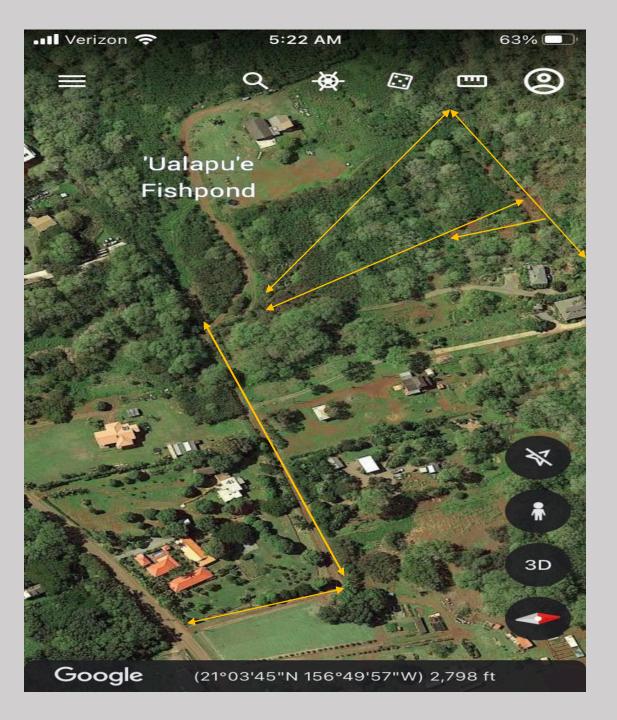
5-6-002:36 1.22 acres

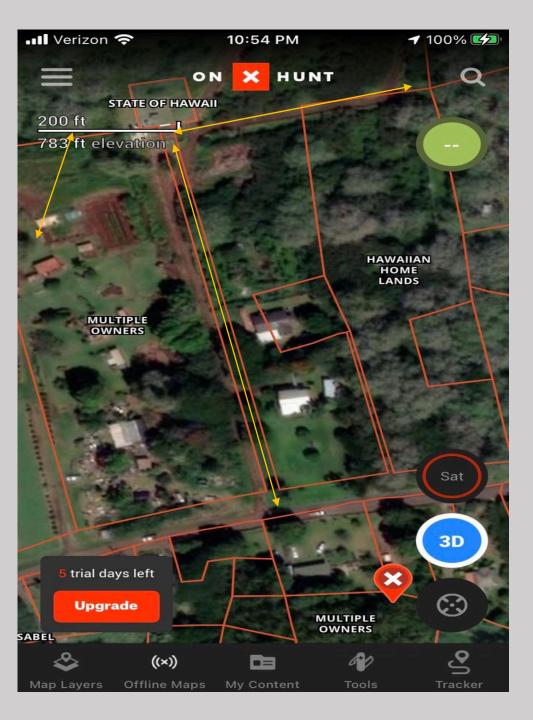
5-6-002:27 1.22 acres

5-6-002:001 2.1 acres

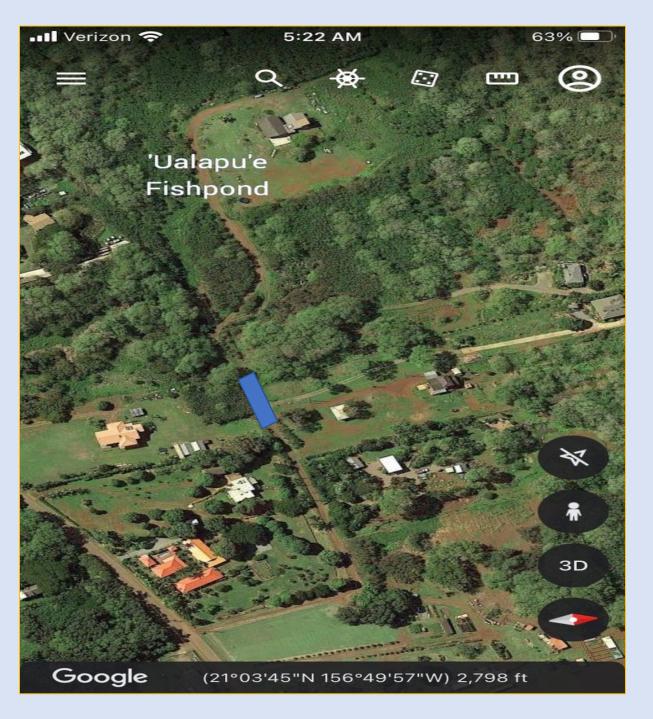




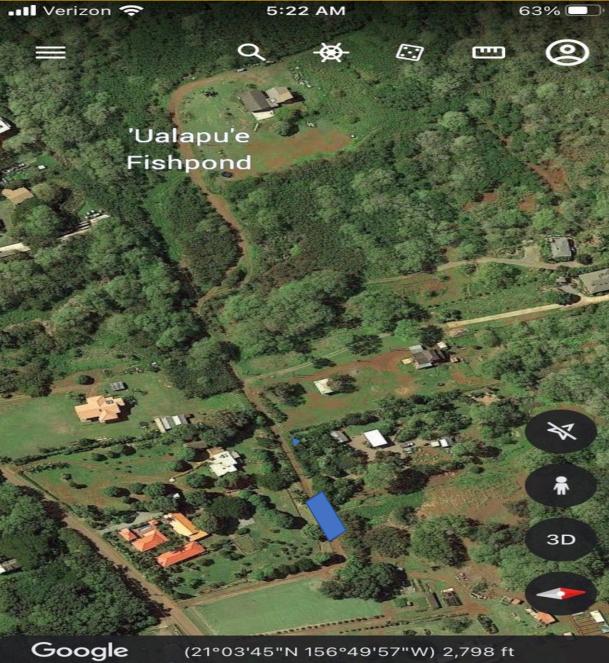




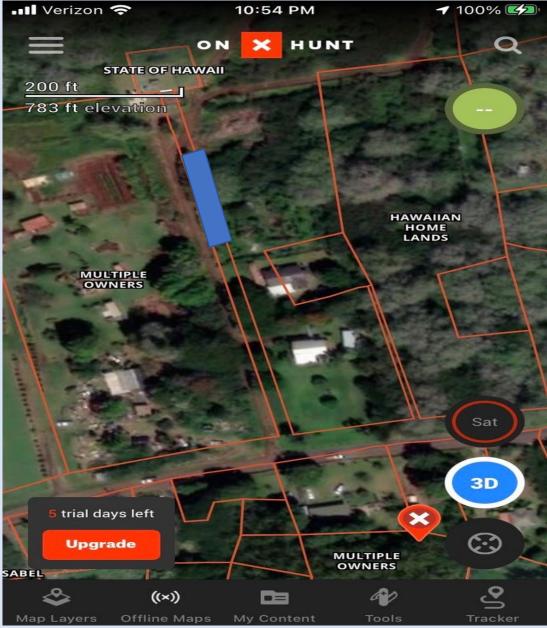














# Waypoint 05/03/21 14:37



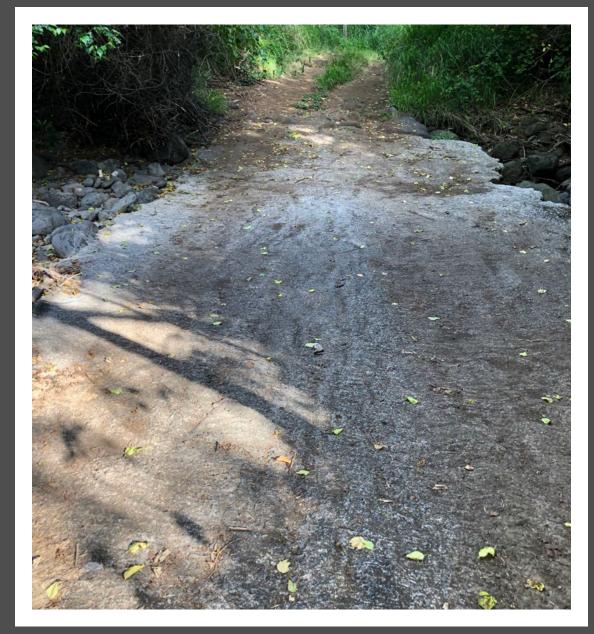
◀ Go to waypoint 🛛 🗇 Delete

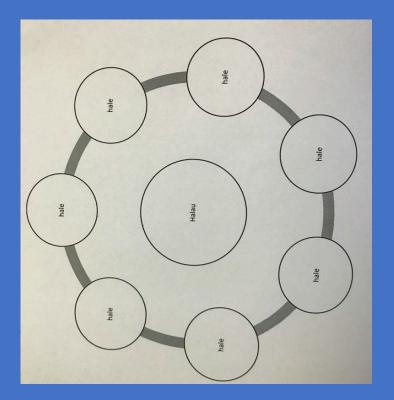








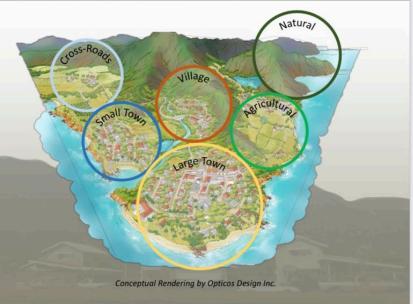




#### WAYS OF THINKING ABOUT LAND USE

#### Place Types

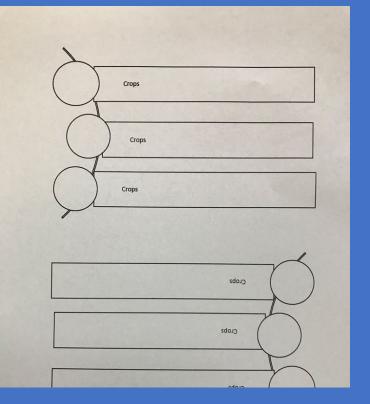
- Conceptual categories based on existing and/or desired community form and character.
- Can be used to inform the application of different land use designations and/or transects.



Denmark's Brøndby Garden City's houses are tiny and also serve as sheds. It's a place for people who live in apartments in the city to have a little plot of land where they can do some gardening and "just as a place to sit and have a cup of coffee in rainy

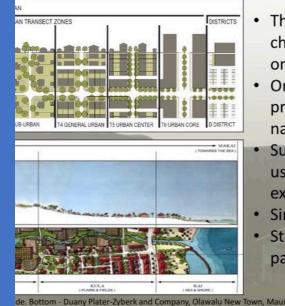






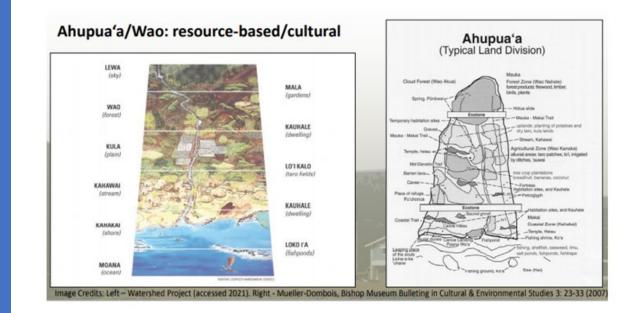
## HINKING ABOUT LAND USE

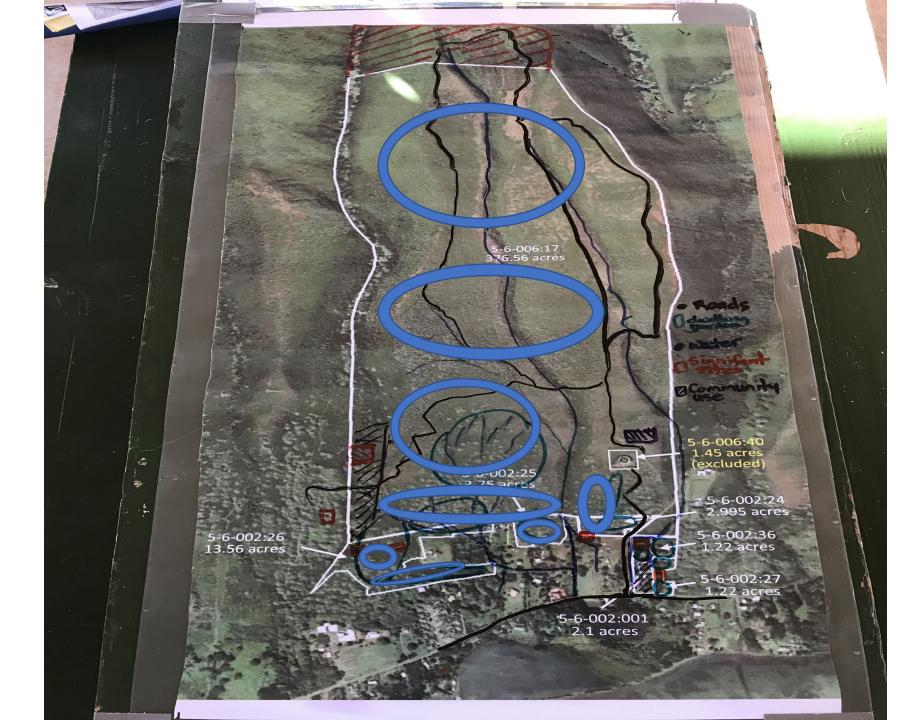
#### ode – transition of uses based on form and in

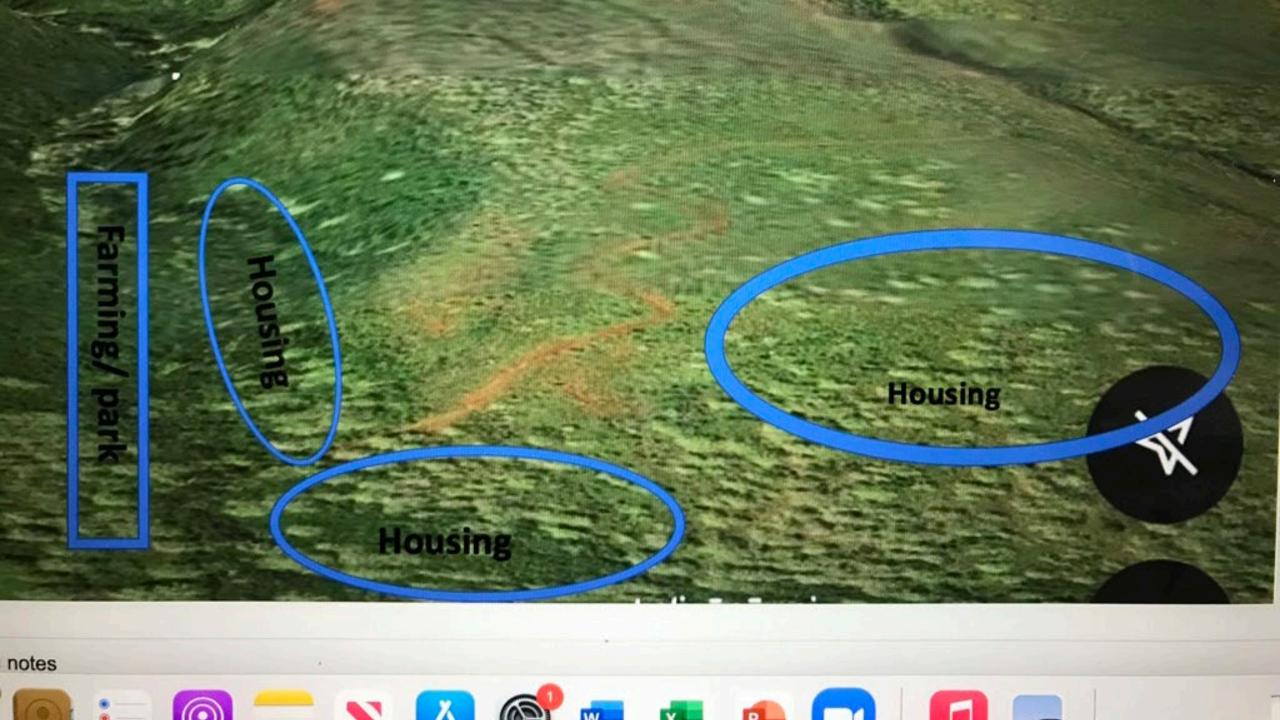


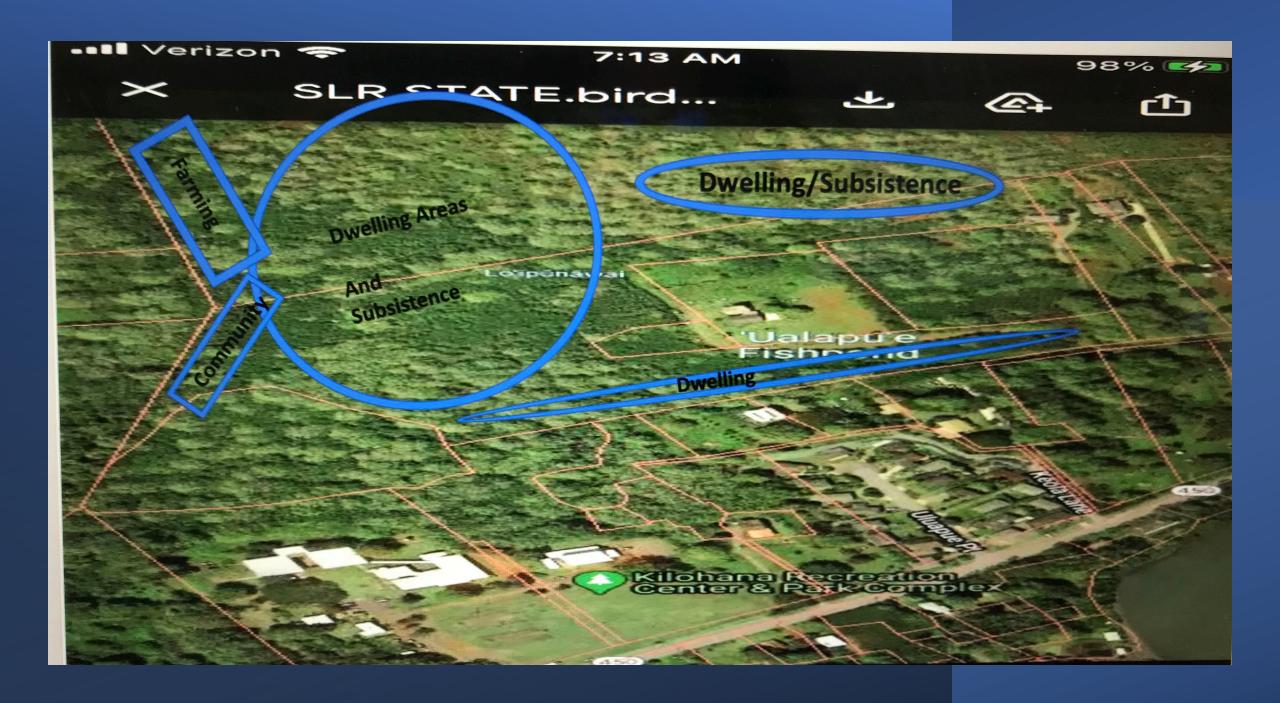
- The Transect focus character and typ on the mix of uses
- Organizes develop provide a continue natural to rural ar
- Supportive of creating environments existing character
- Similarities to ahu
- Starting to be use particularly Kaua'i



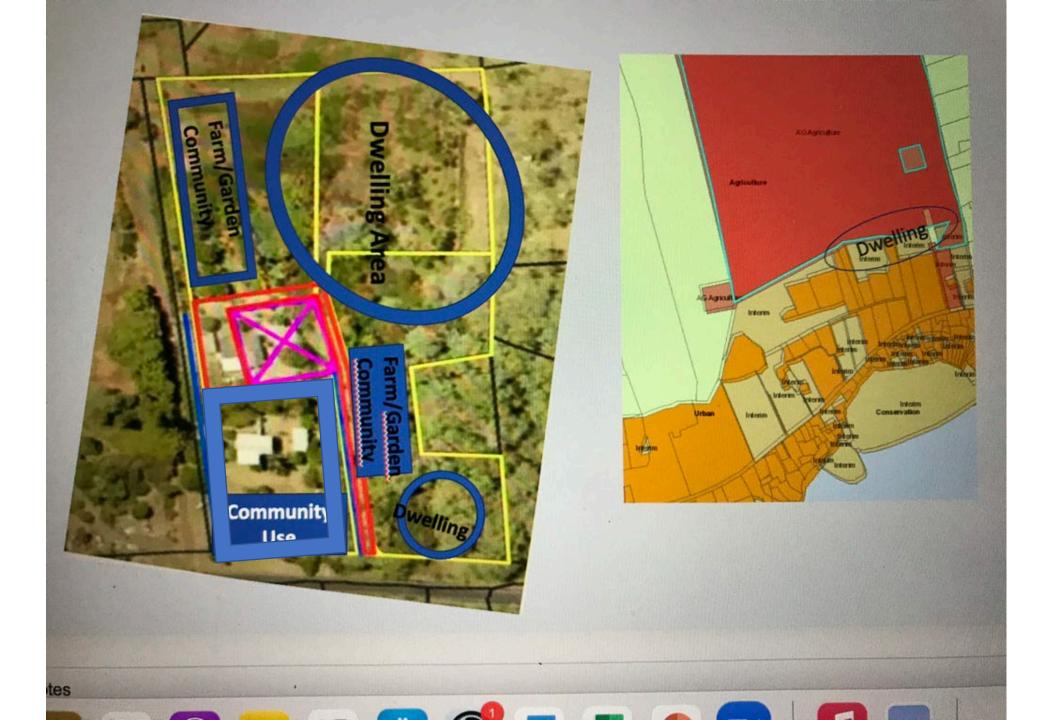






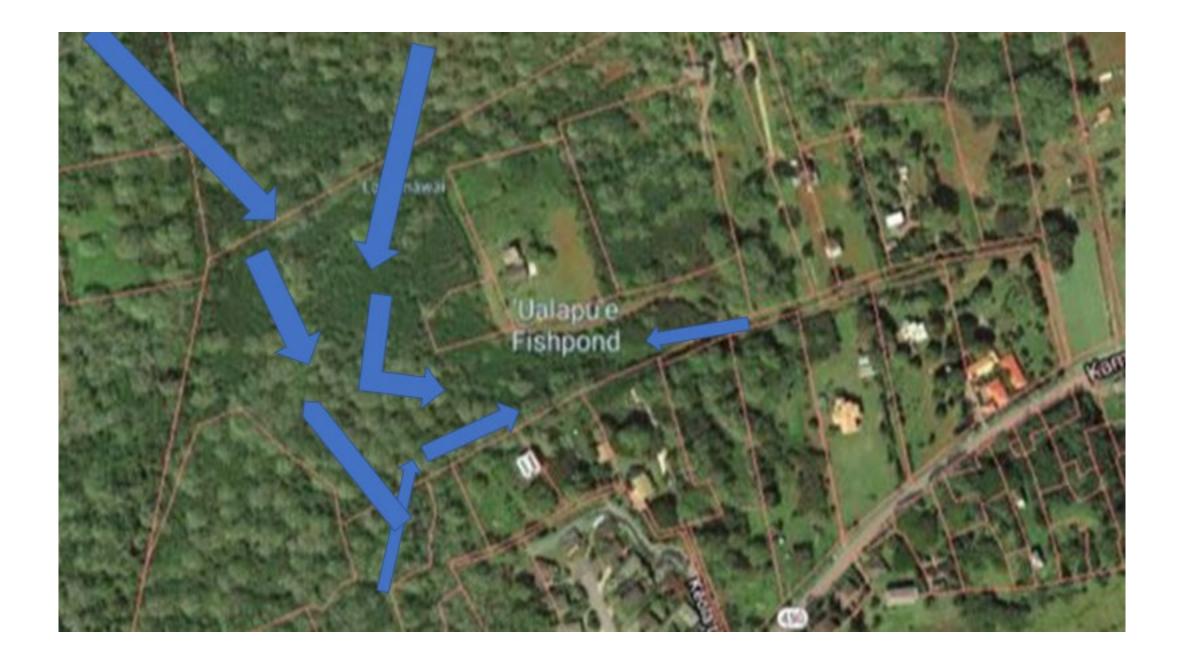




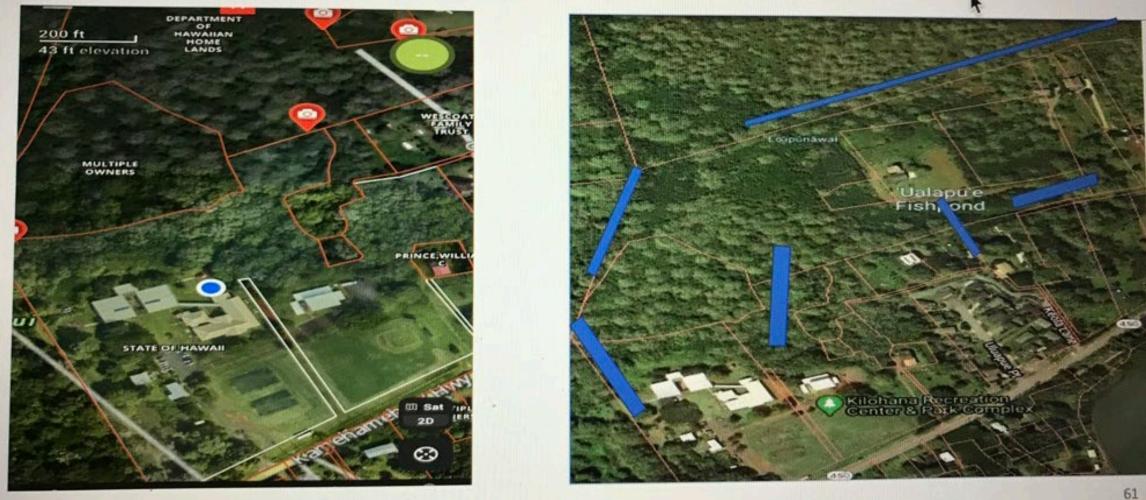






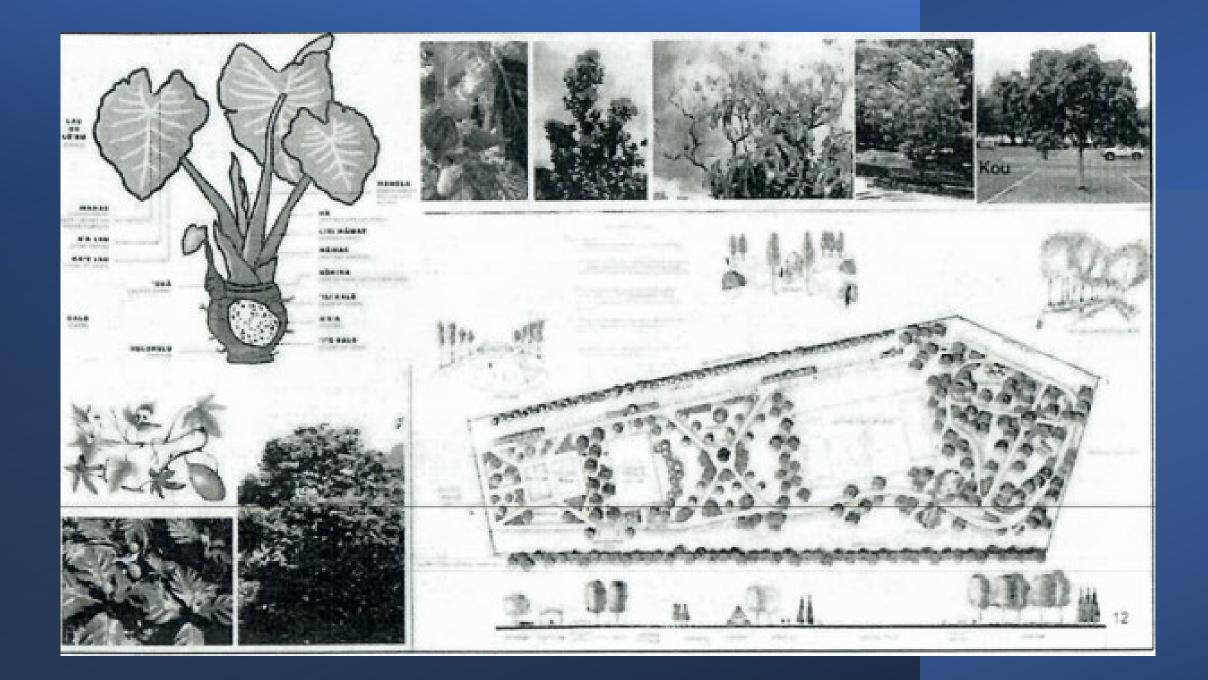


# Potential Roads to TMK 26/17



Starting Location

Ualapue Ualapue





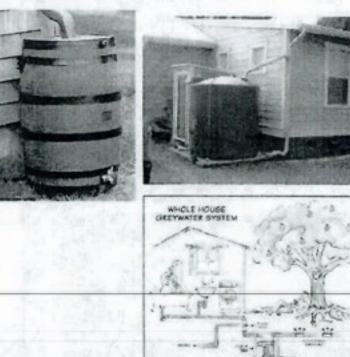
# Kuleana Lease: Not One Size Fits ALL

§10-3-30 Kuleana homestead leases. (\*) The consistion may establish a homestead program for settlement on unimproved available Hawaiian home lands to be known as the kileans homestead program.

(b) The commission may set aside a tract or tracts of unimproved "available lands" as defined in section 203 of the Act, for award under the kuleans homestead program. All lots awarded under this program shall be known as kuleans homestead lots.

(c) In determining whether a tract should be set exide for award as kuleans homestead lots, the commission shall consider the following:

- Physical and environmental characteristics of the lands
- (2) Encessive cost to develop the tract for any reason including: the physical characteristics of the land, the distance of the land from existing electrical, water, waste water disposal, occumulications, and other utility systems;
  - (3) Department land menagement plans and programs;
  - (4) Applicant interest or proposals identifying tracts of land; and
  - (8) Suitability for use by lessees who wish inmediate access to the land for subsistence uses and who are willing to live on the land and accept an unimproved lot.
- (d) The domniagion shall determine which
- homestead waiting list, or combinations thereaf, may be



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