



HAWAIIAN HOME LANDS

HAWAIIAN HOMES COMMISSION · DEPARTMENT OF HAWAIIAN HOME LANDS

Moloka'i Island

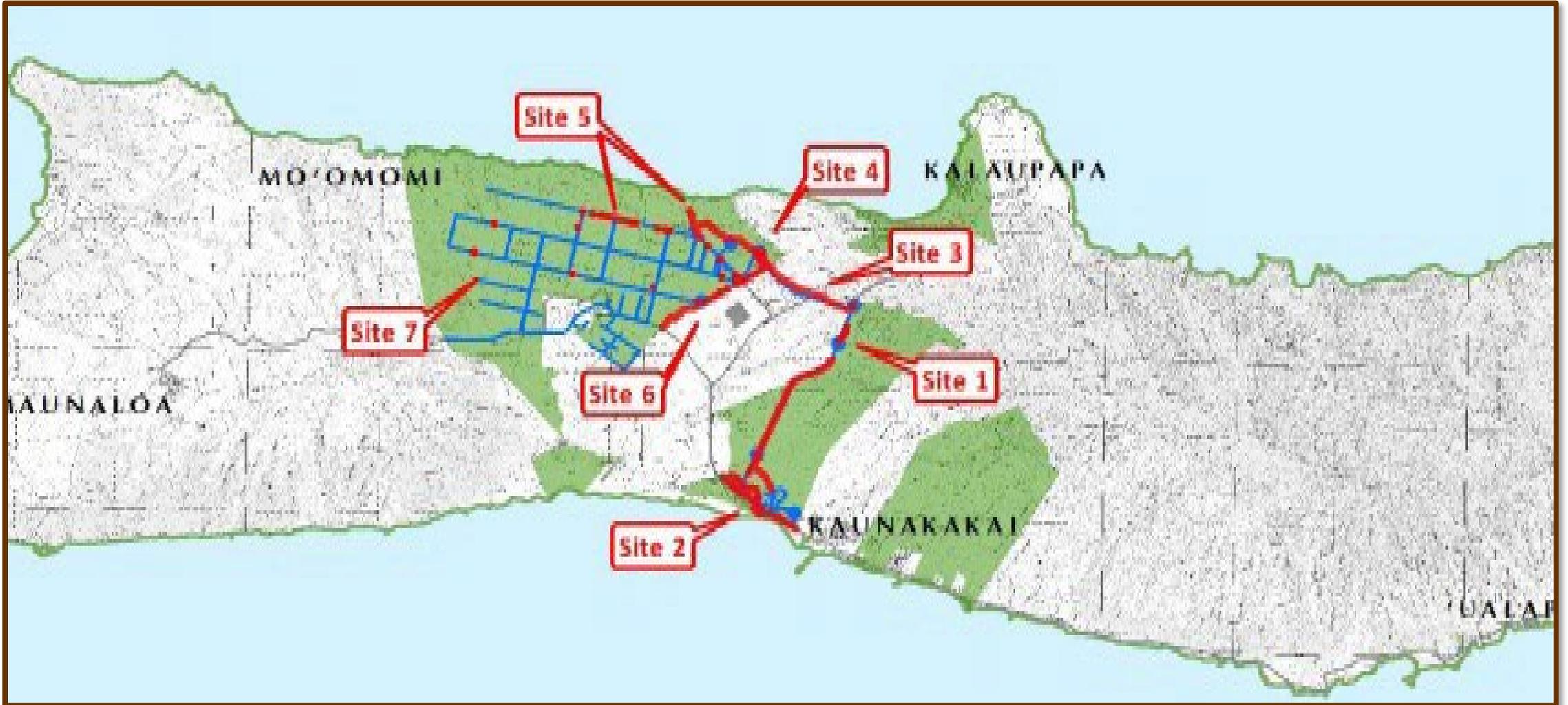
Capital Improvement Project Updates

**Item E-3 Part 1
For Information Only
April 18, 2022**



Ho'olehua Water System

Improvements Located at Seven Areas





Ho'olehua Water System - Proposed Improvements

Objectives:

- Improve reliability and functionality of water delivery
- Address Water Pressure issues
- Address Fire Protection Deficiencies
- Improve Water System Safety and Security
- Reduce Energy Cost

Ho'olehua Water System Improvements - Project Funding



- USDA Loan: \$ 7,455,000
- USDA Grants: \$ 11,634,083
- DHHL Contribution: \$ 12,923,250
- Legislature CIP: \$ 500,000

Total Funds: \$ 31,362,333



Ho'olehua Water System – Project Status

- **Package 1: Ho'olehua (Site 1, Site 3-7)**
 - Contractor: Goodfellow Bros. LLC
 - Construction status: 57% complete
 - In progress: 0.2 MG tank at Site 1 (\$1.2M)
Two 3.5 MG tanks repairs at Site 4 (\$3.3M)
New Maintenance Bldg at Site 7 (\$1.5M)
- **Package 2: Kalamaula**
 - Contractor: Goodfellow Bros. LLC
 - Construction status: 98% complete
- **Package 3: Photovoltaic system**
 - Reassess installation of Photovoltaic system
- **Package 4: Equipment for Operations and Maintenance**
 - Various equipment has been procured and delivered to Molokai District Office; assessing other equipment needs and installation of Smart Meters.



Nā'iwa Ag Subdivision – Site Improvements

PLANNED INFRASTRUCTURE FOR 58 LOT SUBDIVISION

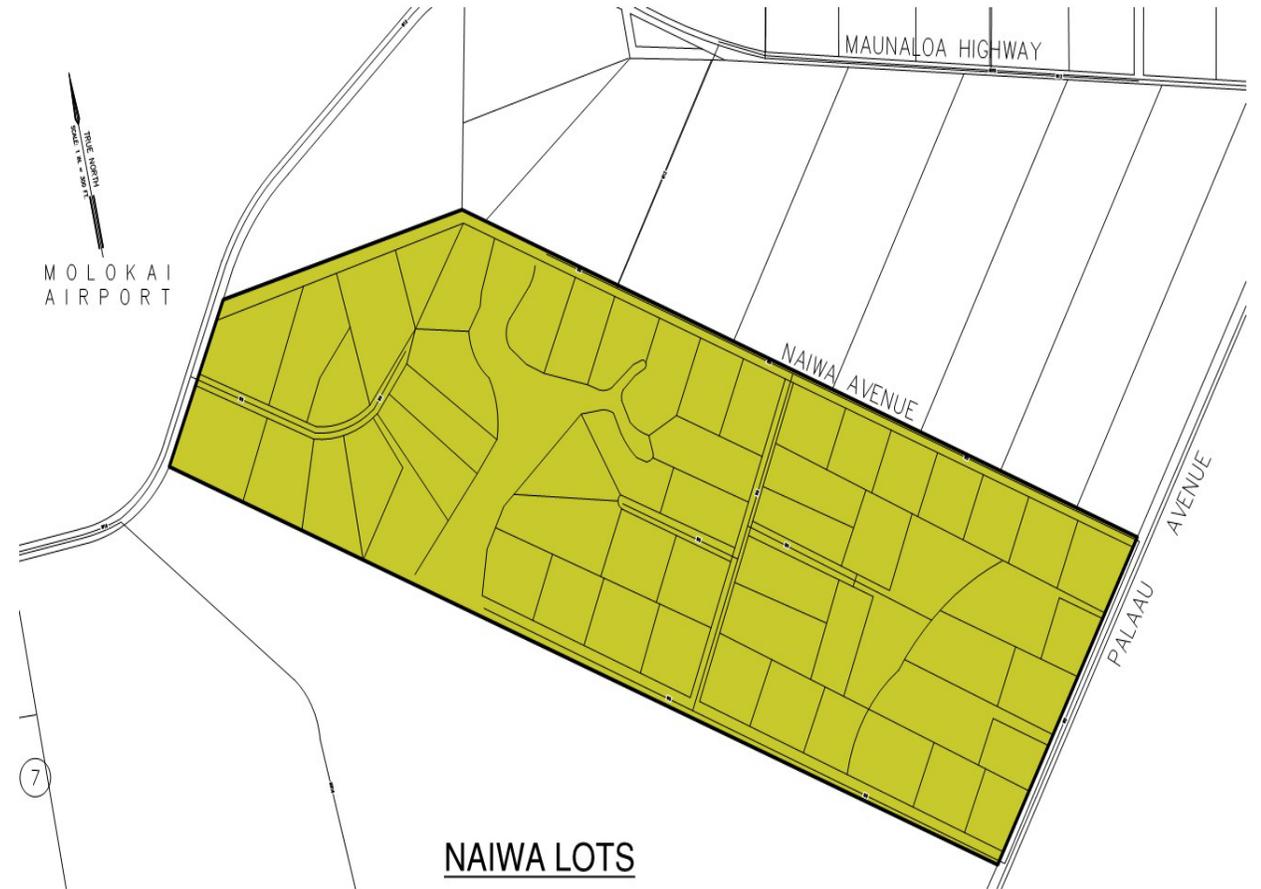
- Roadways
- Potable water
- Irrigation water
- Overhead Electrical Service
- Drainage detention parcels in unencumbered lots

BUDGET

- Environmental Assessment & Preliminary Engineering Report: \$550,000
- Design & Subdivision Approval: \$950,000
- Construction: \$30,000,000 (estimated)

TENTATIVE SCHEDULE

- Early 2021: Start Chap. 343 Environmental Documentation
- Mid 2023: Complete Environmental Documentation
- Late 2023: Complete design
- Early 2024: Advertise bids for construction
- Mid 2024: Begin construction
- Late 2025: Construction completed; Final Subdivision Approval



***Subject to construction funding**



Ho'olehua Scattered Lots – Site Improvements

SCOPE OF WORK

- Create at least 11 new lots from existing unencumbered ag lots; subdivide to Subsistence Ag standards for additional lots.
- Potential Infrastructure Improvements
 - Roadway and electrical
 - Potable and Irrigation water

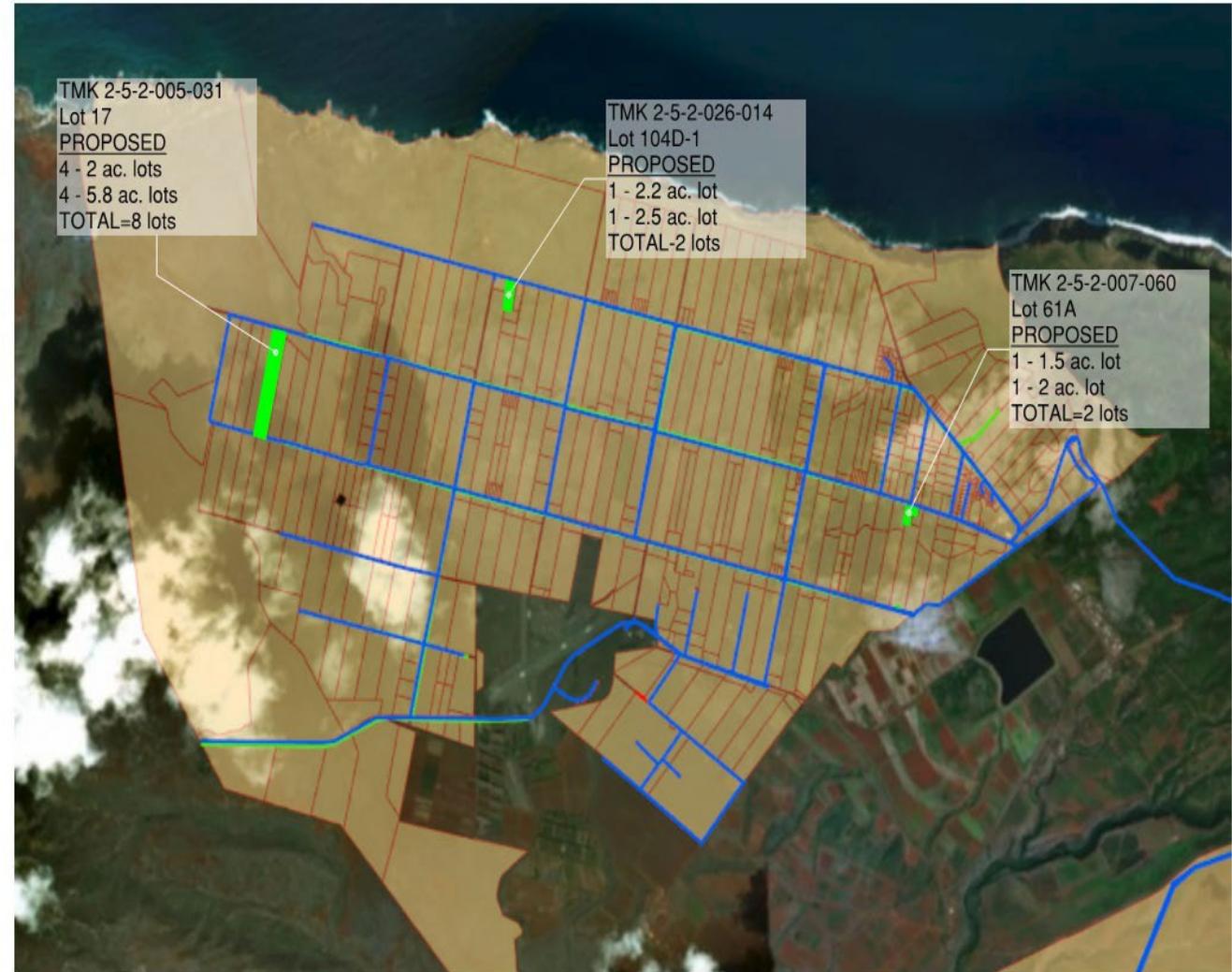
BUDGET

- Design: \$900,000
- Environmental Assessment: \$600,000
- Construction: \$3,000,000

SCHEDULE

- Late 2022: Complete Environmental Documentation
- Mid 2023: Complete design
- Early 2024: Advertise bids for construction
- Mid 2024: Begin construction.
- Early 2025: Construction completed

*subject to construction funding



HO'OLEHUA VACANT LOTS



Hoolehua Veterans and Homestead Residents Center

- New Design-Build facility for joint use by DHHL Homestead Residents and Molokai Veterans; includes parking lot and new septic tank and leach field
- Legislative Appropriation \$4 million (encumbered)
- Building permit application under review by County of Maui; construction to commence upon approval
- Contractor: Diede Construction

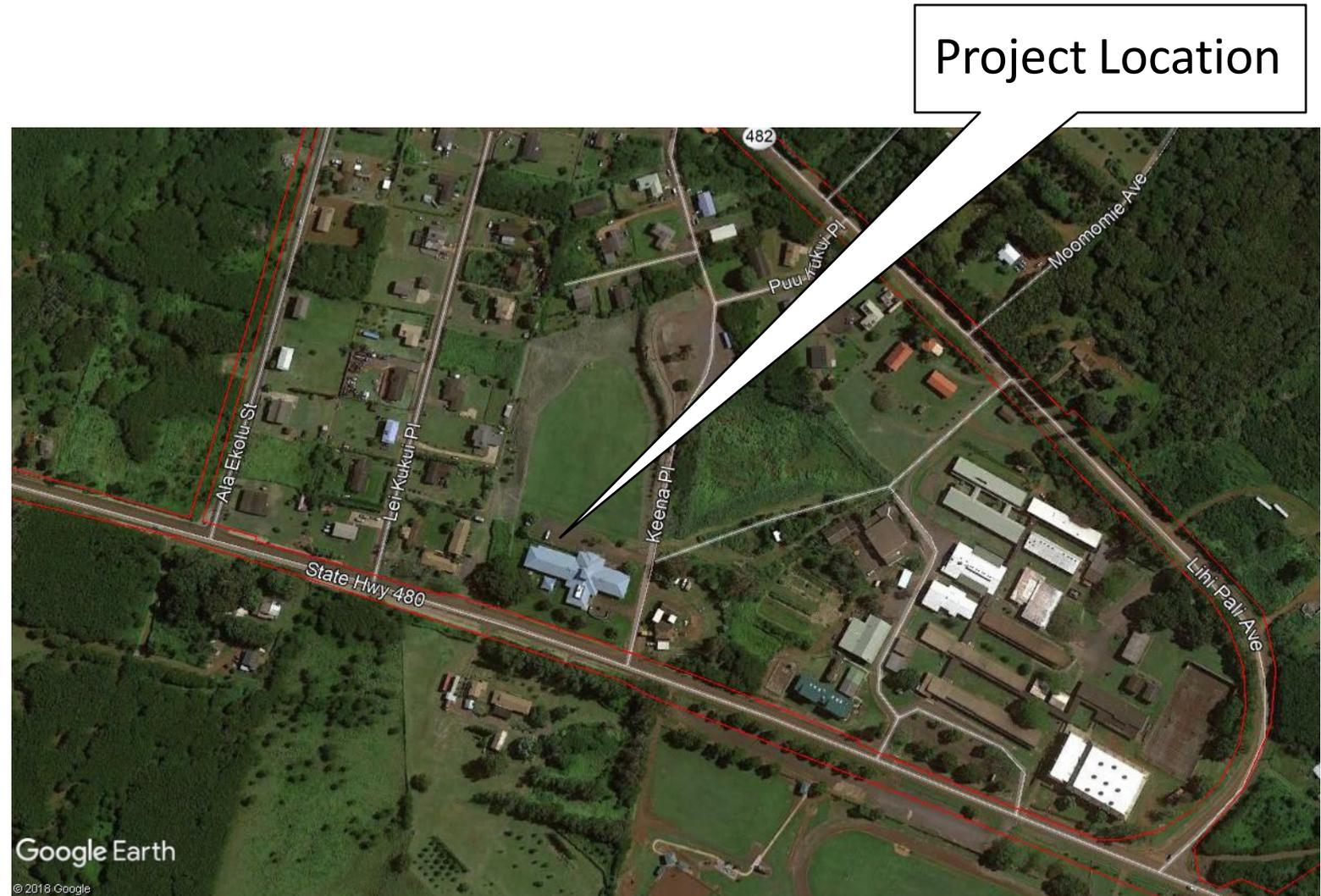
Project Location





Lanikeha Center

- Repair and/or replacement of wastelines
- Hawaii Engineering Group preparing engineering plans to reroute kitchen wasteline around Lanikeha Center
- Procurement to repair and replace the wastelines to be issued in Summer 2022.





Moloka'i Cesspool Assessment

REPORT TO THE 29TH LEGISLATURE FROM DEPARTMENT OF HEALTH: 2018

Executive Summary

Hawai'i has nearly 88,000 cesspools that put 53 million gallons of raw sewage into the State's groundwater and surface waters every day. Cesspools are an antiquated technology for disposal of untreated sewage that have the potential to pollute groundwater. The State relies on groundwater for over 90% of its drinking water. Cesspools also present a risk of illness to island residents and a significant harm to streams and coastal resources, including coral reefs. Further information about the risks cesspools pose to human and environmental health can be found in the appendix.



Moloka'i Cesspool Assessment

Enabling Legislation:

Act 125, Session Laws of Hawaii, 2021 requires upgrade, conversion, or sewer connection of all cesspools by 2050, unless exempted

DHHL Project Objectives:

- 1) Identification and survey of the DHHL Molokai lots with cesspools, based on Department of Health records
- 2) Prepare Assessment report quantifying the number of cesspools, its location and potential remediation method and costs to remediate



Moloka'i Cesspool Assessment

FIELD SURVEY SCHEDULE (Subject to change)

<u>KAPAAKEA</u>	<u>MARCH 11-17, 2022</u>
<u>KAMILOLOA-MAKAKUPAIA</u>	<u>MARCH 17-20, 2022</u>
<u>KALAMAULA</u>	<u>MARCH 18-31, 2022</u>
<u>HOOLEHUA-PALAAU-MOOMOMI</u>	<u>MARCH 30-APRIL 30, 2022</u>

**FINAL RESULTS TO BE SHARED WITH COMMUNITY
AND HAWAIIAN HOMES COMMISSION**



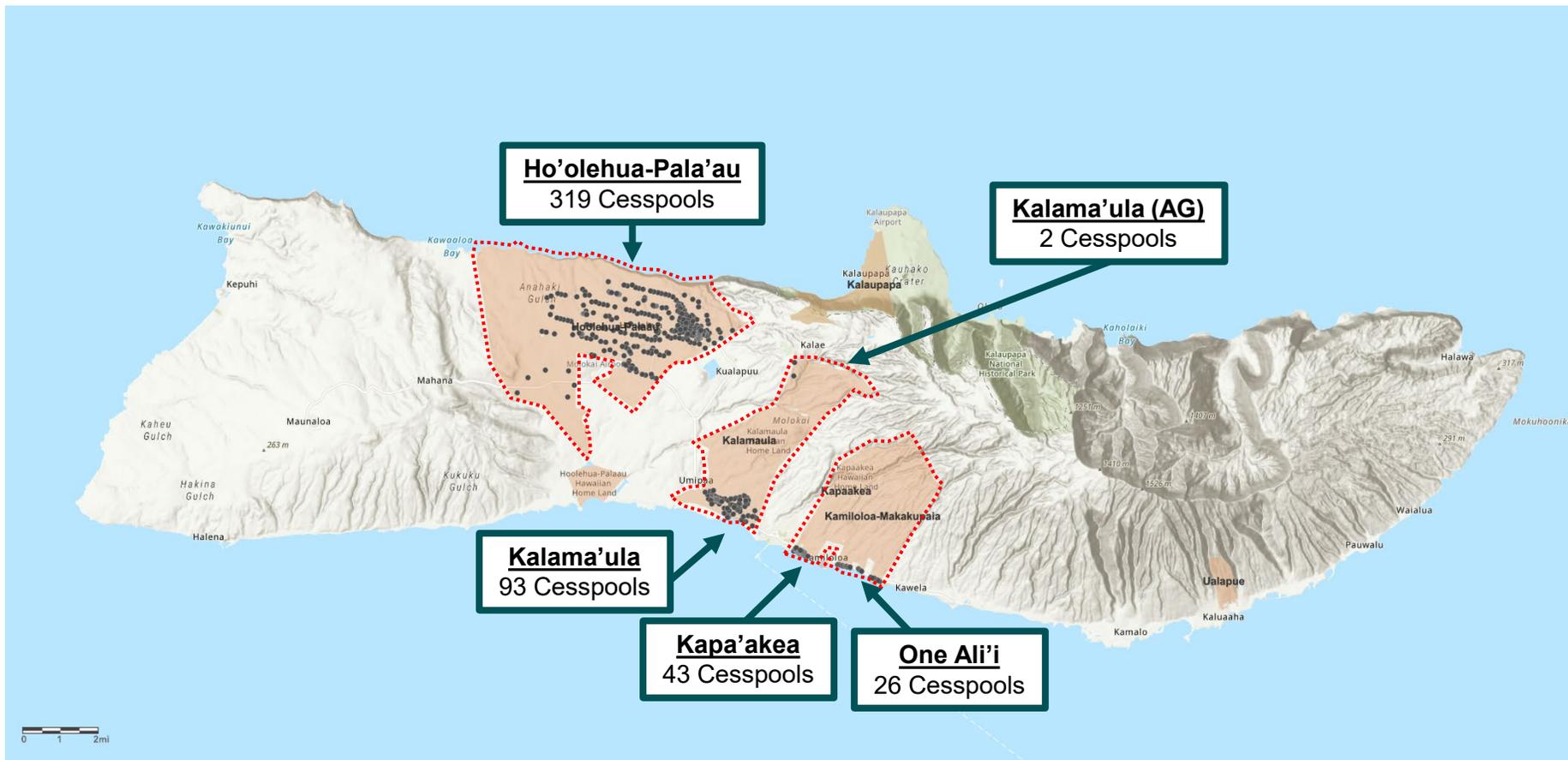
Moloka'i Cesspool Assessment

- **Successful progression of field assessments is highly dependent upon cooperation of lessees.**
- **The data will help DHHL determine engineering options and funding and financing options.**
- **DHHL understands the financial situation within our communities and seeks to lessen the burden on beneficiaries while we all malama the aina and maintain our precious water resources.**

Your kokua is appreciated!



Molokai Cesspool Areas



Project Description

Identification and survey of DHHL lots with cesspools on the island of Molokai.

Project Objectives

1. Build an accurate database of existing cesspools.
2. Assess existing conditions for future conversion of cesspools to comply with Act 125 (SLH 2017) by 2050.
3. Evaluate existing infrastructure and make recommendations for possible cesspool conversions.

Summary

Current records indicate 483 cesspools on the island of Molokai.

Survey start date March 2022 and projected completion of survey end of May 2022.



Kapa'akea Cesspool Lots



43 Cesspools

Legend

- Cesspool



One Ali'i Cesspool Lots



26 Cesspools

Legend

- Cesspool

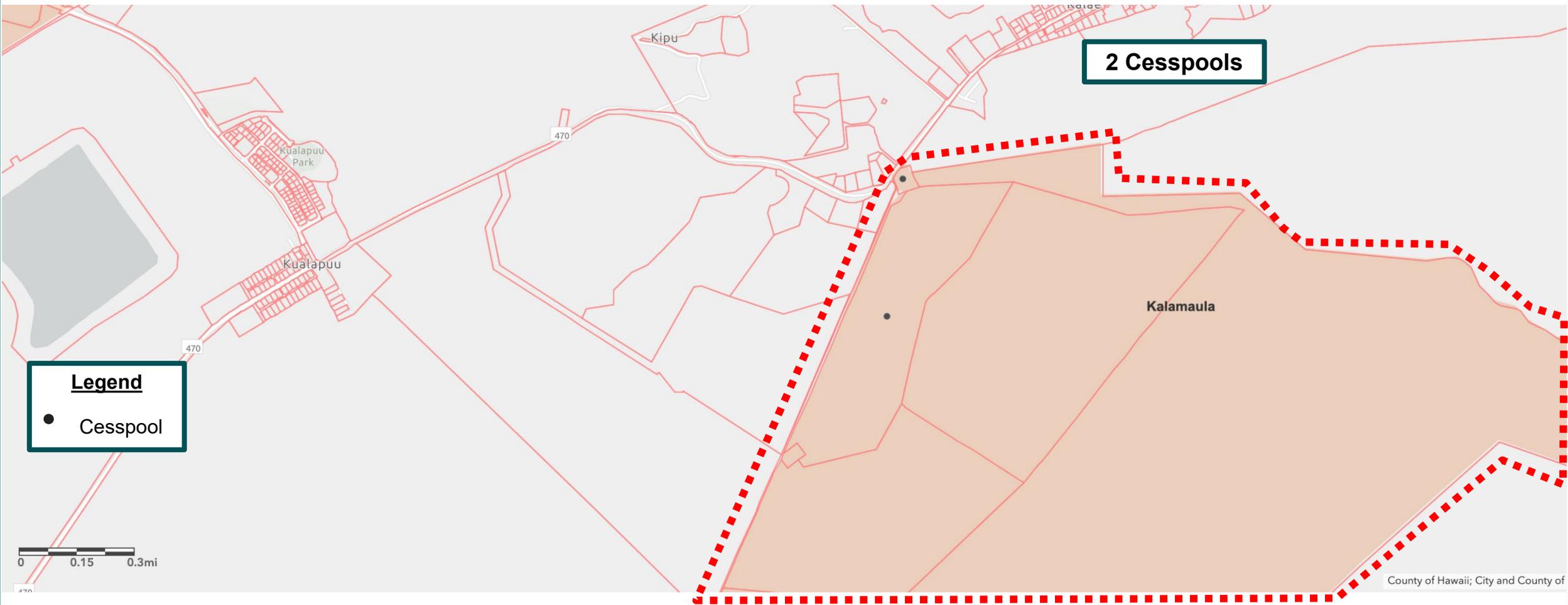


Kalama'ula Cesspool Lots



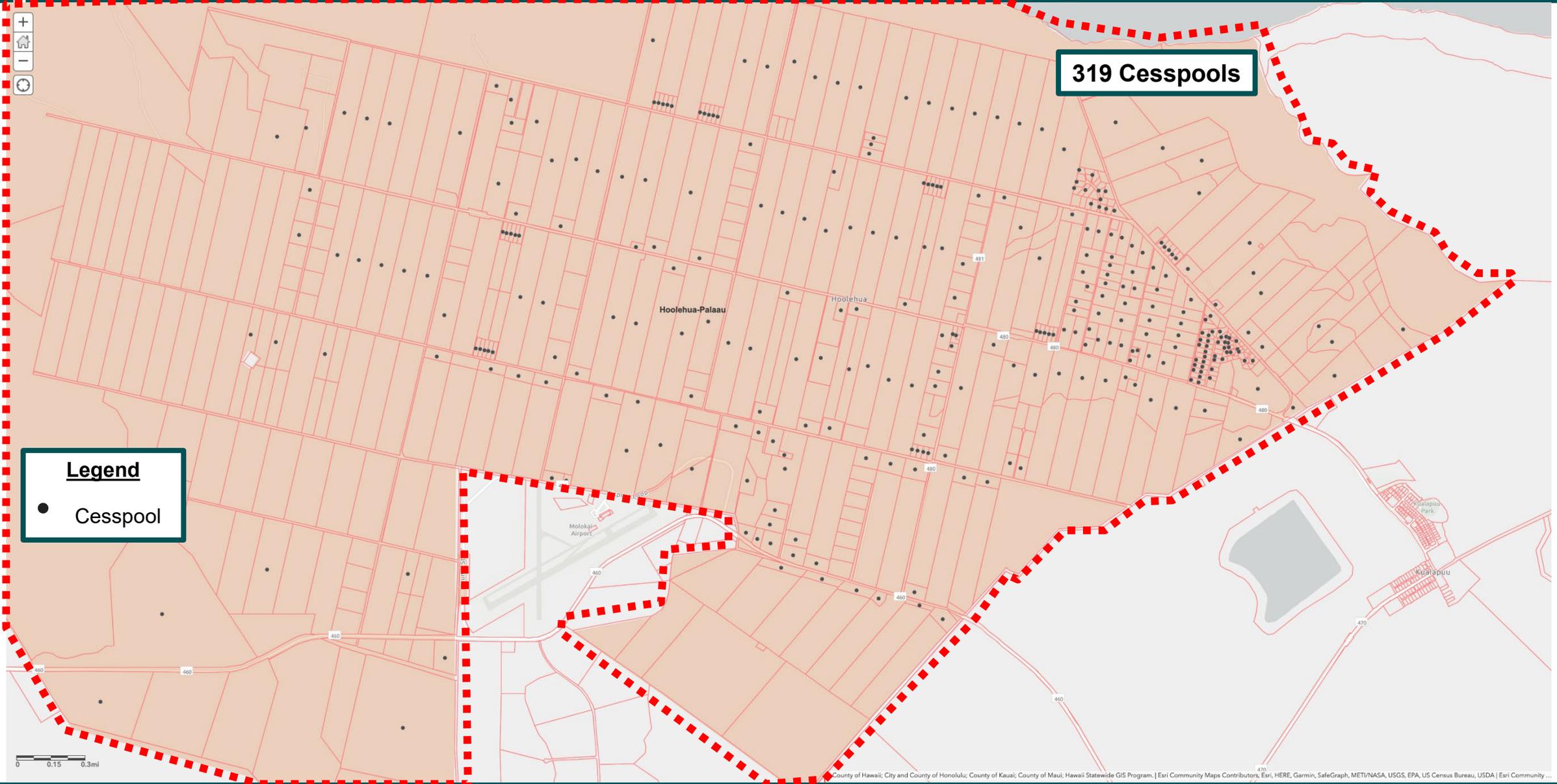


Kalama'ula (AG) Cesspool Lots





Ho'olehua-Pala'au Cesspool Lots





Mahalo



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