Department of Hawaiian Home Lands Water Projects and Issues in West Hawai`i

Commission on Water Resource Management
Waimea, Hawai`i Island
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June 18, 2019
1. Regional Overview
2. The DHHL Planning System & HHC Water Policy Plan
3. West Hawai`i Water Demands & Reservations
4. Going from “paper” water to “wet” water
Regional Overview

- Humuʻula-Piʻihonua
- Waimea Nui
- Kawaihae
- Kealakehe-Laʻi ʻŌpua
Humuʻula-Piʻihonua
The DHHL Planning System & HHC Water Policy Plan

1st Tier
- General Plan
  - Statewide, 20 year timeframe

2nd Tier
- Island Plans
  - Regional, 20 year timeframe

3rd Tier
- Regional Plans
  - Developed Areas, 2-4 year timeframe
- Development Plans
  - Undeveloped Areas, 10-year timeframe

Implementation Tools
- Funding
  - CIP, Operating Budget
  - (7 & 6 years)
- Legislation
  - Administrative Rules
- Land Use
  - Designations, Amendment
  - Processes

Evaluation Program

DHHL Planning System

Water Policy Plan
The HHC Water Policy Plan (WPP)

- **Data Gathering & Analysis**: (2012)
- **Beneficiary issue identification**: (2012-2013)
- **Draft Water Policy Plan (WPP)**: (Feb. 19, 2014)
- **Beneficiary consultation**: (Feb.-May 2014)
- **Adoption**: (July 22, 2014)

West Hawai`i
WPP Priority Goal 1

Affirmatively communicate with beneficiaries regarding water decisions, performance, and water rights on a regional and annual basis.
WPP Priority Goal 2

Aggressively, proactively, consistently, and comprehensively advocate for the kuleana of the beneficiaries, the DHHL, and the HHC to water before all relevant agencies and entities
WPP Priority Goal 3

Develop and manage a Water Assets Inventory (WAI)
WPP Priority Goal 4

Support watershed protection and restoration on DHHL lands and source areas for DHHL water.
Table I. Summary of FY 2019 WPP IP Performance

Red shading and plain text indicates implementation action goal was not met; yellow shading and italicized text indicates some progress was made; green shading and bold-faced text indicates the action goal was met.

Goal 1. Affirmatively communicate with beneficiaries regarding water decisions, performance, and water rights on a regional and annual basis.

<table>
<thead>
<tr>
<th></th>
<th>Implementation Action(s)</th>
<th>Performance</th>
<th>Next Steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Annually and regionally present on DHNL water projects and issues in conjunction with HHC</td>
<td>Objective met</td>
<td>Proposed to be continued</td>
</tr>
<tr>
<td>a.</td>
<td>meetings.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Continued implementation of ten targeted trainings on water rights for beneficiaries over</td>
<td>Objective met</td>
<td>Proposed to be continued</td>
</tr>
<tr>
<td>b.</td>
<td>two years in collaboration with the William S. Richardson School of Law’s Ka Nulu Ao</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>program and others as available and appropriate.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
West Hawai`i Water Demands & Reservations

• We determine future water demands by:
  • Reviewing HHC land use designations
  • Applying water demand rates
• Calculations in State Water Projects Plan
• Keauhou Reservations August 17, 2015
• SWPP Approved May 16, 2017
• Additional groundwater reservations September 18, 2018

Kailapa, Kawaihae, Hawai`i
## Overall Hawai‘i Island Water Demands (mgd)

<table>
<thead>
<tr>
<th></th>
<th>2016</th>
<th>2021</th>
<th>2026</th>
<th>2031</th>
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<tbody>
<tr>
<td><strong>Potable</strong></td>
<td>2.617</td>
<td>4.164</td>
<td>5.209</td>
<td>10.174</td>
</tr>
<tr>
<td><strong>Nonpotable</strong></td>
<td>1.367</td>
<td>5.266</td>
<td>5.266</td>
<td>39.221</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>3.984</td>
<td>9.430</td>
<td>10.475</td>
<td>49.395</td>
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</tbody>
</table>

Kailapa, Kawaihae, Hawai‘i
## Water Demands by Tract (mgd)

<table>
<thead>
<tr>
<th>Location</th>
<th>Potable</th>
<th>Nonpotable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humuʻula-Piʻihonua</td>
<td>0.25-0.3</td>
<td>3.4</td>
</tr>
<tr>
<td>Waimanu</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Upolu Pt.</td>
<td>0.15</td>
<td>0</td>
</tr>
<tr>
<td>Niʻeniʻe/ Kamoku-Kapulena-Waikoloa-Waiʻaleʻale</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Lālāmilo/ Pauahi/ Keoniki</td>
<td>0.21</td>
<td>0.23</td>
</tr>
<tr>
<td>Honokāia</td>
<td>0.34</td>
<td>1.66</td>
</tr>
<tr>
<td>Puʻukapu</td>
<td>0.61</td>
<td>0.81</td>
</tr>
<tr>
<td>Kawaihae</td>
<td>3.27</td>
<td>35.93</td>
</tr>
<tr>
<td>Kealakehe-Laʻi ‘Ōpua</td>
<td>3.728</td>
<td>0</td>
</tr>
</tbody>
</table>

Kailapa, Kawaihae, Hawai`i
Actualizing Reservations

How do we go from “paper” water to “wet” water?

• Irrigation water for Waimea Nui
• Potable water at Kailapa
• Irrigation water for Kawaihae
• Water Credits for La`i `Ōpua
Irrigation Water for Waimea Nui

• The DOA Waimea Irrigation System runs through Pu`ukapu 1.
• Diverts water from five “state” streams
• DHHL owns lands beneath the 60MG Pu`ukapu Reservoir
• Yet Pu`u Kapu lacks sufficient water
  • “Acceleration” and the Pu`u Kapu Hybrid System
• 2016 funding for WIS studies
Potable and Irrigation Water for Kawaihae

- Kawaihae Potable system
- Sources: County, Private
- Unsuccessful well development
- Limited use & high rates
- Lowering SY
- Kawaihae Irrigation needs
- Kehena ditch issues
Water for La`i `Ōpua

- DHHL lands are remote from sources
- Reservation is in place
- DHHL is pursuing multiple strategies
  - Well developments
  - Comments on Well Construction / Pump Installation Permits

Discharge from industrial mariculture, NELHA
The HHC WPP Vision

Our vision is that there will be adequate amounts of water and supporting infrastructure so that homestead lands will always be usable and accessible, to enable us to return to our lands to fully support our self-sufficiency and self-determination in the administration of the Hawaiian Homes Commission Act (HHCA), and the preservation of our values, traditions, and culture.