



**HAWAIIAN HOME LANDS**  
HAWAIIAN HOMES COMMISSION  
DEPARTMENT OF HAWAIIAN HOME LANDS

## Informational Meeting: DHHL Water Systems November 2017

## Agenda

- Pule & Opening
- Discussion Kuleana
- Presentation
  - DHHL-owned Water Systems
  - Costs to manage, operate, maintain
  - Current rate structure
- Questions
- Next Steps

## Purpose

Provide information about the following so that beneficiaries have a better understanding about these topics :

- (1) the DHHL-owned Water Systems
- (2) costs to manage, operate & maintain
- (3) what's included in the current rate structure



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## Discussion Kuleana

## Discussion Kuleana

- ✓ Be creative!
  - Work toward future solutions/aspirations
- ✓ Disagreement is ok as long as we are respectful of each other
- ✓ Everyone gets a turn first, then repeats
- ✓ Cell phones off or on silent
  - Take all calls/texting outside
- ✓ Please hold questions until after presentation

## Discussion Kuleana

You are personally responsible for:

- ✓ Making sure everyone has equal opportunity to express their ideas
- ✓ Actively listening & listening to understand
- ✓ Asking questions
- ✓ Keeping an open mind & maintaining a positive attitude
- ✓ Keeping side conversations to a minimum

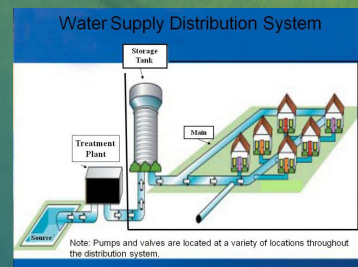
## Refresher

- Water Policy Plan, approved by the Hawaiian Homes Commission, July 2014
- “Water System 101” workshop presented to the Hawaiian Homes Commission, June 2017
- Water Administrative Rules, Beneficiary Consultations, June – August 2017
- What is a “Water System”?

## Refresher: What is a Water System?

### U.S. EPA:

A modern day auwai system of tanks, pumps, pipes, and valves that takes water from source to delivery.



## Where are DHHL's Water Systems Located?



### Quick Facts: Ho'olehua drinking water system

- Age: oldest parts of the system date back to the 1930s
- Department of Health (DOH) ID # PWS 230
  - DOH Requires Certified Grade Level 2 Operator
- 598 connections
- Homestead areas served: Ho'olehua, Kalama'ula
- Essential community facilities served: Ho'olehua airport, US Post Office, schools, churches, Lanikeha Center, offices

### Quick Facts: Ho'olehua drinking water system

- Source: groundwater wells – Kauluwai Well No. 1 and No. 2
- Storage: 5 storage tanks
  - 100,000 gallon tank at the well site
  - 1MG Kauluwai tank
  - Two – 3.5 MG tanks in Ho'olehua
  - 200,000 gallon Kalama'ula tank
- Treatment: Liquid sodium hypochlorite
- Distribution: 50 miles of pipe; 2 booster pumps; 2 altitude valves; gravity flow
- 450 fire hydrants
- Emergency connection to County of Maui Kalae water system

## Ice Breaker 1



## Typical Water System Expenses

### CAR

- Driver's License
- Engine
- Battery
- Fuel tank
- Fuel injection system
- Appurtenances: hoses, electrical wires
- Security: key, car alarm, "the club"

### WATER SYSTEM

- Certified Operator
- Well Pumps
- Electricity
- Storage tank
- Booster pumps, PRVs
- Appurtenances: distribution lines, pipes, fire hydrants
- Security: lights, fences, gates, locks, security cameras

## Other Expenses

### CAR

- Major repairs
- "rainy day fund" – set aside \$\$\$ to someday replace the car

### WATER SYSTEM

- Major capital improvements
- Reserve funds

## Ho'olehua Water System Expenses Fiscal Year 2015 - 2016

	% of Total	Amount
Personnel & related costs	49%	\$394,943
Electricity	39%	309,600
Operations, Repair, Maintenance	6%	45,564
Vehicles	3%	25,959
Baseyard building	2%	18,739
Office expenses	1%	6,598
Freight & delivery	0%	2,030
Reserves	0%	-0-
<b>TOTAL</b>	<b>100%</b>	<b>\$803,433</b>

## What DHHL is doing to keep costs down

### Increase Revenue

- Obtained \$10M federal grant for major capital improvements
- Review/Adjust rate structure

### Increase system efficiencies

- Leak detection program
- Increase scheduled maintenance
- Review operating budget

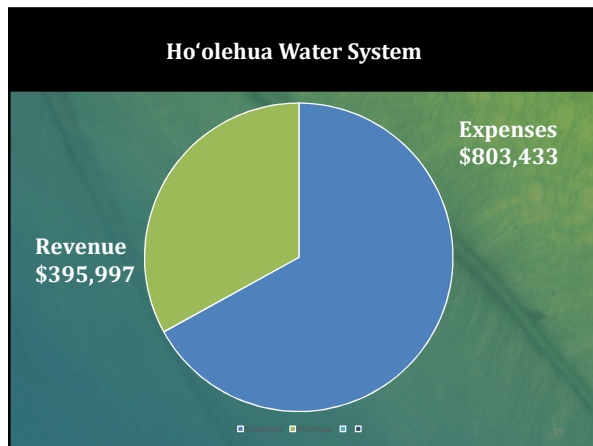
## Ice Breaker 2

Definition of "Break Even"?

## Ice Breaker 2

Definition of "Break Even"?

Expenses = Revenues



- ### Next Steps for DHHL
- Implement major capital improvements to increase operational efficiencies
  - Review & adjust rate structure
  - Ensure system parts/equipment in good working condition
  - Continue leak detection
  - Complete Water Administrative Rules process

- ### Next Steps for You
- Think about today's discussion
  - Talk to family, friends, neighbors
  - Fix leaks
  - Conserve water
  - Everyone do their part, including DHHL

