

JOSH GREEN, M.D.  
GOVERNOR | KE KIA'ĀINA

SYLVIA LUKE  
LIEUTENANT GOVERNOR | KA HOPE KIA'ĀINA



STATE OF HAWAII | KA MOKU'ĀINA 'O HAWAII'  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
KA 'OIHANA KUMUWAIWAI 'ĀINA

P.O. BOX 621  
HONOLULU, HAWAII 96809

DAWN N.S. CHANG  
CHAIRPERSON  
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KAHOOLAWE ISLAND RESERVE COMMISSION  
LAND  
STATE PARKS

Testimony of  
DAWN N. S. CHANG  
Chairperson

Before the House Committee on  
WATER AND LAND

Thursday, April 11, 2024  
9:00 AM

State Capitol, Conference Room 430 & Videoconference

In consideration of  
SENATE CONCURRENT RESOLUTION 203, SENATE DRAFT 1 /  
SENATE RESOLUTION 179, SENATE DRAFT 1  
REQUESTING THE OFFICE OF PLANNING AND SUSTAINABLE DEVELOPMENT  
AND COUNTY OF MAUI TO INVENTORY AND MAP EXISTING R-1 WATER  
DELIVERY SYSTEMS AND RESERVOIRS IN MAUI COUNTY

Senate Concurrent Resolution 203, Senate Draft 1 / Senate Resolution 179, Senate Draft 1 requests the Office of Planning and Sustainable Development and the County of Maui to inventory and map existing R-1 water delivery systems and reservoirs in Maui County. **The Department of Land and Natural Resources (Department) acknowledges the intent of this measure and offers the following comments.**

The Commission on Water Resource Management (Commission) supports this measure. The Commission proposes to expand the scope of the inventory and map to include the potential expansion of infrastructure and appropriate use of recycled wastewater in South and West Maui, which reduces the use of potable water for nonpotable demands, is resilient to drought, and prevents potential pollution of nearshore waters by reducing wastewater injection and ocean outfalls. Use of existing infrastructure, such as old pipelines, ditches, and reservoirs, may reduce construction costs and will serve to expand the distribution and storage of R-1 water. Pumping water up to higher elevations would allow for the implementation of a gravity-fed distribution system, which is ideal to support agriculture and provide water for fire suppression. Use of R-1 water also eliminates the need to amend established interim instream flow standards by reducing demands on stream (surface water) sources. Furthermore, R-1 water sourced from the County of Maui's Lahaina Wastewater Reclamation Facility (WWRF) would provide opportunities for the County to recoup costs and support system maintenance through usage fees. The

Department's Hawai'i Dam Safety Program should be consulted for all state-regulated dams and reservoirs.

While the Commission takes no position regarding the plans, designs, land acquisition, and upgrading, the Commission offers the following comments on reservoirs in West Maui:

Reservoirs most ideally located to support an R-1 distribution system across Lahaina:

- Field 140 Reservoir, at an elevation of 700 ft, is State-regulated with a high hazard classification and is owned by Maui Land and Pineapple Co. The condition is currently poor with enforcement pending/ongoing.
- Crater Reservoir (420 ft elevation) and Wahikuli Reservoir (560 ft elevation) are sited near each other in Kahoma above Lahaina town. The reservoirs are State-owned, but have been decommissioned. These reservoirs could be repurposed to meet dam safety standards.
- Makila Reservoir is privately-owned, at an elevation of 400 ft, and is located along the Makila Reservoir Ditch, which could serve as a right-of-way for a pipeline from Wahikuli Reservoir.
- Kaua'ula Reservoir is privately-owned, at an elevation of 780 ft, with an existing pump station that can move water up from Makila Reservoir.

Reservoirs that would be inappropriate to support an R-1 distribution system across Lahaina:

- Mahinahina Reservoir is owned by the County of Maui, is part of the Honokōhau Ditch system, and is used for potable water supply by the County. This reservoir is State-regulated with a high hazard classification. The condition is currently poor with enforcement pending/ongoing.
- Kahoma Reservoir is privately-owned, at an elevation of 1860 ft, and is State-regulated with a high hazard classification. The condition is currently poor with enforcement pending/ongoing. R-1 water would have to be pumped up a considerable elevation to utilize this reservoir.
- E-2 Reservoir is on the border between private and State-owned land, at an elevation of 1340 ft, and is currently abandoned. R-1 water would have to be pumped up a considerable elevation to utilize this reservoir.
- Ukumehame Reservoir is privately owned, at an elevation of 160 ft, and is State-regulated with a high hazard classification. The condition is currently unsatisfactory and is slated for decommissioning.

Thank you for the opportunity to comment on this measure.



LATE \*Testimony submitted late may not be considered by the Committee for decision making purposes.

**STATE OF HAWAII**  
**OFFICE OF PLANNING**  
**& SUSTAINABLE DEVELOPMENT**

**JOSH GREEN, M.D.**  
GOVERNOR

**SYLVIA LUKE**  
LT. GOVERNOR

**MARY ALICE EVANS**  
DIRECTOR

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Statement of  
**MARY ALICE EVANS, Director**

before the  
**HOUSE COMMITTEE ON WATER & LAND**

Thursday, April 11, 2024

9:00 AM

State Capitol, Conference Room 430

in consideration of  
**SENATE CONCURRENT RESOLUTION 203, SD1**  
**REQUESTING THE OFFICE OF PLANNING AND SUSTAINABLE DEVELOPMENT**  
**AND COUNTY OF MAUI TO INVENTORY AND MAP EXISTING R-1 WATER**  
**DELIVERY SYSTEMS AND RESERVOIRS IN MAUI COUNTY**

Chair Ichiyama, Vice Chair Poepoe, and members of the House Committee on Water & Land:

The Office of Planning and Sustainable Development (OPSD) **appreciates the intent of SCR 203, SD 1**, requesting OPSD and County of Maui to inventory and map existing R-1 water delivery systems and reservoirs in Maui County. OPSD offers the following comments.

The Statewide GIS Program in OPSD regularly gathers data from federal, State, and county agencies and makes more than 400 data layers available to the public through its geospatial open data portal.

However, some agency data is intentionally not shared with OPSD due to the sensitivity of the data or because of security concerns. The R-1 water delivery systems data from Maui County and the regulated and non-regulated dams data from the Department of Land and Natural Resources (DLNR) may fall into this category. OPSD suggests amending the title and body of these resolutions to include DLNR in the inventory and mapping to address any sensitivity and security concerns.

An alternative is to request that R-1 water delivery systems and reservoirs in Maui County are included in the non-public Critical Infrastructure system currently being planned by the Office of Homeland Security in the Department of Law Enforcement.

Thank you for the opportunity to testify on this measure.

Council Chair  
Alice L. Lee

Vice-Chair  
Yuki Lei K. Sugimura

Presiding Officer Pro Tempore  
Tasha Kama

Councilmembers  
Tom Cook  
Gabe Johnson  
Tamara Paltin  
Keani N.W. Rawlins-Fernandez  
Shane M. Sinenci  
Nohelani U'u-Hodgins



Director of Council Services  
David M. Raatz, Jr., Esq.

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**COUNTY COUNCIL**  
COUNTY OF MAUI  
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April 10, 2024

TO: The Honorable Linda Ichiyama, Chair, and  
Members of the Committee on Water & Land

FROM: Alice L. Lee  
Council Chair

A handwritten signature in cursive script, appearing to read "Alice L. Lee".

SUBJECT: **HEARING OF APRIL 11, 2024; TESTIMONY IN SUPPORT OF SCR203, SD1, REQUESTING THE OFFICE OF PLANNING AND SUSTAINABLE DEVELOPMENT AND COUNTY OF MAUI TO INVENTORY AND MAP EXISTING R-1 WATER DELIVERY SYSTEMS AND RESERVOIRS IN MAUI COUNTY**

I **support** this resolution requesting the Office of Planning and Sustainable Development to inventory and map existing R-1 water delivery systems and reservoirs in Maui County.

I am providing this testimony in my capacity as an individual member of the Maui County Council.

I support this measure for the following reasons:

1. Recurring droughts and lack of adequate wells have caused parts of Maui County to struggle with water shortages, especially in Upcountry Maui and West Maui.
2. Inventorying and mapping R-1 water delivery systems and reservoirs in Maui County are important first steps toward developing additional water reclamation, reuse and retention resources, leading to more efficient water usage.
3. Reclaimed water can be used for valuable purposes such as agriculture, fire prevention, and firefighting, and use of reclaimed water wherever possible allows drinking water resources to be more available for other uses.

Thank you for your consideration.

**SCR-203-SD-1**

Submitted on: 4/8/2024 6:08:35 PM

Testimony for WAL on 4/11/2024 9:00:00 AM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Testify</b>
Ted Bohlen	Hawaii Reef and Ocean Coalition	Support	Written Testimony Only

Comments:

SUPPORT!