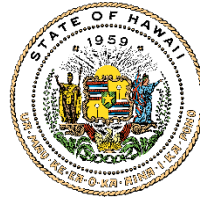


**JOSH GREEN, M.D.**  
GOVERNOR | KE KIA'ĀINA

**SYLVIA LUKE**  
LIEUTENANT GOVERNOR | KA HOPE KIA'ĀINA



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

P.O. BOX 621  
HONOLULU, HAWAII 96809

**DAWN N.S. CHANG**  
CHAIRPERSON  
BOARD OF LAND AND NATURAL RESOURCES  
COMMISSION ON WATER RESOURCE  
MANAGEMENT

**LAURA H.E. KAAKUA**  
FIRST DEPUTY

**M. KALEO MANUEL**  
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES  
BOATING AND OCEAN RECREATION  
BUREAU OF CONVEYANCES  
COMMISSION ON WATER RESOURCE  
MANAGEMENT  
CONSERVATION AND COASTAL LANDS  
CONSERVATION AND RESOURCES  
ENFORCEMENT  
ENGINEERING  
FORESTRY AND WILDLIFE  
HISTORIC PRESERVATION  
KAHOOLAWE ISLAND RESERVE COMMISSION  
LAND  
STATE PARKS

**Testimony of  
DAWN N. S. CHANG  
Chairperson**

**Before the House Committee on  
FINANCE**

**Tuesday, February 28, 2023  
10:00 AM**

**State Capitol, Conference Room 308 & Videoconference**

**In consideration of  
HOUSE BILL 1511, HOUSE DRAFT 1  
RELATING TO WATER RESOURCES**

House Bill 1511, House Draft 1 proposes to appropriate funds as a grant-in-aid to the City and County of Honolulu Board of Water Supply (BWS) to: (1) site and install monitoring wells to collect important data; and (2) design and construct an exploratory well to meet future potable water requirements for the metropolitan area on O'ahu. **The Department of Land and Natural Resources (Department) supports this measure and offers the following amendment.**

The shut-down of BWS's Hālawa Shaft and various other sources has required a shift in their pumpage to other aquifers outside of the Waimalu Aquifer System Area. The Red Hill monitoring wells drilled by the Navy are primarily for determining the extent of existing fuel releases and to provide sentinel wells for protection of vulnerable production wells. More wells will help to better assess migration of any current contaminants and/or future spills or releases towards BWS's Hālawa Shaft.

Additionally, the shut-down of various BWS sources necessitated a shift in pumpage from the Waimalu Aquifer System Area to other aquifers, primarily the Honolulu Aquifer Sector, which is already overtaxed. With the years-long duration of the shut-down of Hālawa Shaft and the Hālawa and 'Aiea wells, BWS has lost approximately 13.5 million gallons per day of production capacity. Therefore, it is imperative that BWS find new sources to augment their already stressed network of production wells.

For these reasons, the Department supports the appropriation of funds for the City and County of Honolulu's BWS to drill monitor wells to better assess the risk to Hālawā Shaft in the effort to get it back online, as well as the drilling of an exploratory well to build system resiliency by adding a new source, with the following amendments to SECTION 1 (1) of House Bill 1511, House Draft 1 (grey highlight):

The purpose of this Act is to appropriate funds as a grant-in-aid to the city and county of Honolulu board of water supply to:

- (1) Site and install monitoring wells, after consultation with the department of health and the commission on water resource management, to collect and share important data needed to understand the condition of the groundwater aquifer underneath and surrounding the Red Hill bulk fuel storage facility and its implications to Oahu's drinking water supply; and
- (2) Design and construct an exploratory well to meet future potable water requirements for the metropolitan area on Oahu.

Mahalo for the opportunity to provide testimony in support of this measure.

**BOARD OF WATER SUPPLY**

CITY AND COUNTY OF HONOLULU  
630 SOUTH BERETANIA STREET  
HONOLULU, HI 96843  
www.boardofwatersupply.com



February 28, 2023

RICK BLANGIARDI, MAYOR

BRYAN P. ANDAYA, Chair  
KAPUA SPROAT, Vice Chair  
MAX J. SWORD  
NA' ALEHU ANTHONY  
JONATHAN KANESHIRO

DAWN B. SZEWCZYK, P.E., Ex-Officio  
EDWIN H. SNIFFEN, Ex-Officio

ERNEST Y. W. LAU, P.E.  
Manager and Chief Engineer

ERWIN M. KAWATA  
Deputy Manager

The Honorable Kyle T. Yamashita, Chair  
The Honorable Lisa Kitagawa, Vice Chair  
and Members  
House Committee on Finance  
Hawaii State Capitol, Room 308  
Honolulu, Hawaii 96813

Dear Chair Yamashita, Vice Chair Kitagawa and Members:

Subject: House Bill 1511, HD1: Relating to Water Resources

The Honolulu Board of Water Supply (BWS) strongly supports House Bill (HB) 1511, House Draft (HD) 1.

This measure proposes to appropriate grant-in-aid to the Honolulu Board of Water Supply (BWS) to fund the planning, design, and construction of seven monitoring wells and an exploratory well in response to the Red Hill fuel contamination crisis.

The monitoring wells will provide important information that will help characterize the nature and extent of the fuel contamination in the underground aquifer and impact on our existing well stations. The purpose of the exploratory well is to find new water supplies to replace the capacity loss from the shutdown of three BWS well stations due to the fuel contamination crisis.

This bill is needed to address the most unprecedented contamination of Oahu's irreplaceable drinking water resources from Red Hill facility fuel and other hazardous materials such as aqueous film forming foam (AFFF) releases that pose an imminent threat to public health and the environment.

Thank you for the opportunity to testify in strong support of HB 1511, HD 1.

Very truly yours,

ERNEST Y. W. LAU, P.E.  
Manager and Chief Engineer



Email: [communications@ulupono.com](mailto:communications@ulupono.com)

HOUSE COMMITTEE ON FINANCE  
Tuesday, February 28, 2023 — 10:00 a.m.

**Ulupono Initiative supports HB 1511 HD1, Relating to Water Resources.**

Dear Chair Yamashita and Members of the Committee:

My name is Micah Munekata, and I am the Director of Government Affairs at Ulupono Initiative. We are a Hawai'i-focused impact investment firm that strives to improve the quality of life throughout the islands by helping our communities become more resilient and self-sufficient through locally produced food, renewable energy and clean transportation choices, and better management of freshwater resources.

**Ulupono supports HB 1511 HD1**, which appropriates funds as a grant-in-aid to the City and County of Honolulu Board of Water Supply to plan, design, and construct seven monitoring wells and an exploratory well.

Ulupono supports the State's efforts to ensure a safe, reliable water resource for our local communities. This bill seeks to provide important resources to the Honolulu Board of Water Supply to install seven monitoring wells near the Red Hill Bulk Fuel Storage Facility to collect data on groundwater aquifer conditions. With the recent events around the Red Hill fuel contamination, there is more need to protect our freshwater resources than ever before. That aquifer affects all of O'ahu's residents and, due to its importance to tourism and tax revenues as well, ultimately affects all of Hawai'i's residents. Furthermore, without safe, reliable drinking water resources, building more housing to address the housing crisis will also not be possible. Honolulu Board of Water Supply needs and deserves State support in fulfilling its critical mission.

We appreciate the Legislature's attention to our State's water security by providing resources to safeguard our freshwater resources.

Thank you for the opportunity to testify.

Respectfully,

Micah Munekata  
Director of Government Affairs

*Investing in a Sustainable Hawai'i*



# SIERRA CLUB OF HAWAI'I

## HOUSE COMMITTEE ON FINANCE

February 28, 2023      10:00 AM    Conference Room 308

### **SUPPORTING HB1511 HD1: Relating to Water Resources**

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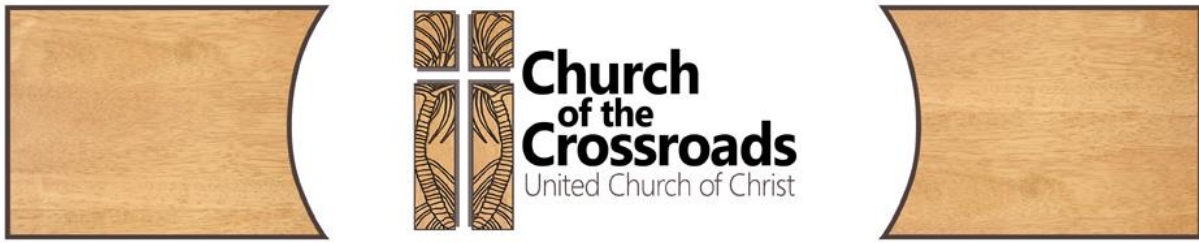
Aloha Chair Yamashita, Vice Chair Kitagawa, and Members of the Finance Committee,

On behalf of our 20,000 members and supporters, the Sierra Club of Hawai'i **SUPPORTS** HB1511 HD1, which would mitigate the risk of the catastrophic contamination of Honolulu's municipal water system, and help provide notice to private well owners, farmers, gardeners, and riparian tenants of the potential contamination of their water sources.

**The economic, environmental, cultural, and social impacts that would result from the unexpected contamination of Honolulu's municipal water system, as well as the private wells, farms, streams, and springs in the region surrounding Kapūkakī, would vastly exceed the financial investment proposed by this measure.** Our current inability to determine whether and where new water sources can be safely developed may also impact our islands' economic foundations, which rely upon access to clean and abundant water. Accordingly, the monitoring wells that would be developed under this measure represent a much needed, highly worthwhile, and time-critical investment necessary to avoid or mitigate the harshest consequences of the contamination of our once exceedingly pure sole source aquifer.

Should this measure be passed into law, the Sierra Club of Hawai'i commits to continue working to secure compensation from the entity responsible for our water contamination crisis, for all of the harms that have been inflicted on our island and people.

Accordingly, the Sierra Club of Hawai'i respectfully urges the Committee to **PASS** HB1511 HD1. Mahalo nui for the opportunity to testify.



## ***A Just Peace and Open and Affirming Congregation***

### **THE CHURCH OF THE CROSSROADS TESTIMONY IN SUPPORT OF BILL SB 1230**

*The Church of the Crossroads celebrates 100 years of being Hawaii's first intentionally multiethnic church, dedicated to missions of peace, justice, and stewardship of the environment.*

#### **The Church of the Crossroads supports HB1511.**

We are concerned about the serious contamination on Navy's facilities in Kapikakī (Red Hill). Across the spiritual traditions, water is foundational to life, a symbol of purity and rebirth and a metaphor for actively engaged and transformative lives. Protecting water is a sacred act. Thank you for consideration of our testimony and helping protect the water for our community.

Submitted by Aya Kimura on behalf of the Church of the Crossroads

Email: [office@churchofthecrossroadshawaii.org](mailto:office@churchofthecrossroadshawaii.org)

**HB-1511-HD-1**

Submitted on: 2/25/2023 11:42:30 AM

Testimony for FIN on 2/28/2023 10:00:00 AM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Testify</b>
Lynn Murakami Akatsuka	Individual	Support	Written Testimony Only

Comments:

I strongly support HB 1511, HD 1 to be passed this session. It is imperative to do so.

**HB-1511-HD-1**

Submitted on: 2/27/2023 10:09:08 AM

Testimony for FIN on 2/28/2023 10:00:00 AM

<b>Submitted By</b>	<b>Organization</b>	<b>Testifier Position</b>	<b>Testify</b>
Susan Gorman-Chang	Individual	Support	Written Testimony Only

Comments:

HB 1511 HD1

Susan Gorman-Chang

Ewa Beach, HI

I am in strong support of HB 1511 HD1 which will provide appropriate funds as a grant-in-aid to site and install monitoring wells and to design and construct an exploratory well. Due to the U.S. Navy's lack of adequate monitoring wells as well as the U.S. Navy's lack of transparency and data sharing, it is imperative that we fund such monitoring wells.

We must monitor our aquifer, as that is the only source of water on O'ahu. We do not know how or where the plume from the jet fuel leak(s) from Red Hill has migrated and we have the same uncertainty regarding the U.S. Navy's spill of concentrated fire fighting foam that contains PFAs, commonly referred to as forever chemicals. We, the people of Hawaii, must ensure our aquifer's safety.

Being proactive in constructing exploratory wells for water needs in the future should the U.S. Navy be successful in poisoning many of our wells with jet fuel, is also imperative. Ola i ka wai.





EPA 8.2700	2-(2-METHOXYETHOXY)- ETHANOL	32MD		80.0	40.0	ug, 'L	1227/21	12/27, 21
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This is a fuel system icing inhibitor soluble in aircraft turbine engine fuel. This inhibitor is primarily composed of **diethylene glycol monomethyl ether** and is commonly referred to as DiEGME.

The inhibitor is intended for use as an anti-icing agent to be added to military aircraft turbine engine fuels. The requirements defining the product covered by this specification are needed for the unique operating environment of military aircraft and are not identical to similar commercial specifications. Products defined by commercial specifications with the same chemical name are only acceptable for use in military equipment if they meet all of the requirements of this specification.