DAVID Y. IGE

SUZANNE D. CASE

MICHAEL G. BUCK ELIZABETH A. CHAR, M.D. NEIL J. HANNAHS AURORA KAGAWA-VIVIANI, PH.D. WAYNE K. KATAYAMA PAUL J. MEYER

M. KALEO MANUEL



STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES COMMISSION ON WATER RESOURCE MANAGEMENT P.O. BOX 621 HONOLULU, HAWAII 96809

STAFF SUBMITTAL

COMMISSION ON WATER RESOURCE MANAGEMENT July 20, 2021 Honolulu, Oʻahu

Department of Hawaiian Home Lands, Molokai APPLICATION FOR A WATER USE PERMIT MODIFICATION AND REDUCTION OF RESERVATION FOR KUALAPU'U Kauluwai 1 and 2 wells (Well Nos. 4-0801-001 and -002), TMK (2) 5-2-010:003, WUP No. 1100 New and Existing Uses per Section 221 of the Hawaiian Homes Commission Act and Non-Homestead Municipal Uses for 0.595 mgd <u>Kualapu'u Ground Water Management Area, Moloka'i</u>

APPLICANT:

LANDOWNER:

Department of Hawaiian Home Lands, Moloka'i P.O. Box 2009 Kaunakakai, HI 96748 Department of Hawaiian Home Lands, Moloka'i P.O. Box 2009 Kaunakakai, HI 96748

SUMMARY OF REQUEST:

The applicant requests that the Commission approve a water use permit for an allocation of 0.595 million gallons per day (mgd) of potable basal ground water from two existing wells to supply various new and existing uses of Hawaiian home lands as set forth in section 221 of the Hawaiian Homes Commission Act and Non-Homestead Municipal Uses.

LOCATION MAP: See Exhibit 1

BACKGROUND:

This application has been considered in the context of three applications that have been submitted to the Commission on Water Resource Management (Commission). This application is for a modification of the existing water use permit no. 267 to the Department of Hawaiian Homelands (DHHL).

There are also competing applications from the Maui Department of Water Supply (MDWS) and Molokai Properties / Molokai Public Utilities, Inc. (MPU) / Molokai Ranch / Wai'ola O Molokai (WOM), which, if all approved for the requested amounts, would exceed the sustainable yield for the Kualapu'u Aquifer System Area.

Therefore, it's important to understand the timeline for each application. In the following section, the portions that are in bold are directly related to this application. Everything else (MDWS, WOM, CCH, etc.) is not in bold and provide context.

On May 13, 1992 the Commission designated the island of Moloka'i as a Ground Water Management Area. Public notice was published on July 15, 1992 triggering a one-year filing period for existing water users to file applications for water use permits.

On June 8, 1993, an application for a Water Use Permit was submitted by Molokai Irrigation System and Molokai Ranch for the amount of 10% of the pumpage from Well 17 (State Well No. 4-0901-001) that represented system loss for the transport of water from Well 17 through the Molokai Irrigation System. Though out of numerical sequence, this Water Use Permit application was No. 554 (possibly entered into the database post submission). The permit was incomplete and therefore not accepted.

On June 9, 1993, Maui Department of Water Supply filed a complete application for existing and foreseeable groundwater use of 0.660 mgd from Well No. 0801-003.

On July 6, 1993, DHHL filed a complete application for existing and foreseeable ground water use of 0.500 mgd from Well Nos. 0801-001 & 002.

On September 15, 1993, the Commission issued Water Use Permit No. 267 to the Department of Hawaiian Homelands (DHHL) for 0.367 million gallons per day (mgd). Though DHHL requested 0.500 mgd in their application, the Commission issued an allocation of 0.367, and denied without prejudice the portion of the total requested allocation to be used for future DHHL needs as that amount was included in the 0.905 mgd requested for reservation.

On December 14, 1994, MDWS filed an amended application for existing water use of 0.660 mgd from Well No. 0801-003 based upon the November 1994 12-MAV.

On March 14, 1995, the Commission issued an interim existing Water Use Permit No. 341 to Kukui (Molokai) Inc. for 0.871 mgd from Well 17.

On March 14, 1995, the Commission approved an amended water reservation to DHHL (incorporated by rule through an amendment to §13-171-63) for a total reservation of 2.905 mgd.

On October 20, 1995, the Commission approved Water Use Permit No. 359 for MDWS for 0.516 mgd for municipal uses from Kualapu'u Well (Well No. 0801-003).

On April 29, 1998, the Commission received Water Use Permit application no. 499 from the Department of Water Supply for the Kualapu'u Mauka well but did not accept it as complete.

On December 19, 2001, the Commission issued a Decision and Order on the Kukui (Molokai) Inc. Contested Case Hearing, which allocated 0.936 mgd for existing uses, and 0.082 mgd for proposed uses, from Well 17.

On December 26, 2007, the Supreme Court issued its decision "in the Matter of the Contested Case Hearing on Water Use Permit Application Filed by Kukui (Molokai), Inc.", "vacating the Commission's final decision and order filed on December 19, 2001, and remand for further proceedings consistent with this opinion."

On June 5, 2008, the Public Utilities Commission (PUC) informed Molokai Public Utilities, Inc. (MPU), the purveyor of water service from Well 17 to the Kaluakoi consumers/ratepayers and that MPU was obligated to maintain service until a third party was identified to continue the operations.

On December 13, 2012, Molokai Public Utilities, Inc. (MPU) submitted an application (WUPA No. 973) for 1.026 mgd from Well 17 (State Well No. 4-0901-001). This application was considered incomplete and amended permits were submitted an additional four (4) times (August 12, 2013, February 11, 2014, June 30, 2014, July 22, 2014).

After a status conference with parties to the contested case hearing to discuss the PUC's motion to continue water withdrawals, on December 21, 2012 the Commission responded to a complaint by Native Hawaiian Legal Corporation citing Hawaii Administrative Rules section 13-171-12(a) to allow existing uses prior to designation to continue until permitted and expressed a stay of enforcement for pumping without a permit until there could be resolution on remand questions.

On February 17, 2017, the Commission issued an order dismissing the Kukui (Molokai) Inc. Contested Case Hearing.

On July 18, 2018, Wai'ola O Molokai submitted an application (WUPA No. 1058) for Well 17 (State Well No. 4-0901-001).

On November 27, 2018, the Commission sent letters to DHHL, Maui DWS and Molokai Public Utilities, stating that modifications to water use permit applications are being requested by March 1, 2019 so that applications can be evaluated together.

On March 11, 2019, Molokai Properties Ltd. submitted an application (WUPA 1089) for Well 17, which combines the parcels listed under WUPA 973 and 1058.

On July 1, 2019, Earthjustice, on behalf of Moloka'i No Ka Heke submitted a Petition to Amend Interim Instream Flow Standards for Waikolu, Kawela, Manawainui and Kaunakakai Streams and their tributaries; and complaint against waste, and a petition for declaratory order, regarding Molokai Ranch's Mountain Water System. This is tied to the Well 17 application because the Well 17 allocation request seeks to replace some surface water diversion with ground water use.

On September 15, 2020, the USGS presented the results of their Groundwater Availability study for Molokai. This study estimates fresh groundwater discharge to both the north and the south, a well as simulated chloride concentration of pumped water in the competing wells in different pumping scenarios.

On October 21, 2020, the Commission received a water use permit application from the Department of Hawaiian Home Lands. Additional information regarding the source, use, notification, objections, and field investigation(s) is provided in Exhibit 2. After various correspondence with Commission staff, sufficient information was submitted for the application to be deemed complete on May 8, 2021. The complete application can be found in Exhibit 7.

ANALYSIS/ISSUES:

Section 174C-49(a) of the State Water Code establishes seven (7) criteria that must be met to obtain a water use permit. An analysis of the proposed permit in relation to these criteria follows:

(1) <u>Water availability</u>

Through the Hawaii Water Plan, the Commission has adopted 5 mgd as the sustainable yield for the Kualapuu Aquifer System Area. Individual existing water use permits in this aquifer system area are shown in Exhibit 4. A summary of the current ground water conditions in the aquifer is provided in Table 1:

Table 1. Kualapuu Aquifer System Area

Kualapuu Sustainable Yield (all values below are MGD)	5.000
Approved WUPs	
WUP 267 (approved 1993 - DHHL Well No. 4-0801-001 and -002)	(0.367)
WUP 269 (approved 1993 - MDWS Well No. 4-1059-001)	(0.036)
WUP 359 (approved 1995 - MDWS Well No. 4-0801-003)	(0.516)
DHHL reservation (approved 1995)	(2.905)
Current available allocation	1.176
This application	0.595
Amount over WUP 267 (0.367)	0.228
Other applications	
WUPA 499 (submitted 1998 - MDWS for 4-0801-003)	(0.900)
WUPA 973 (submitted 2012 - Molokai Public Utilities for 4-0901-001)	
WUPA 1058 (submitted 2018 - Waiola O Molokai for 4-0901-001)	
WUPA 1089 (submitted 2019 - Waiola O Molokai for 4-0901-001)*	(1.208)
Total applied for (other applications)	(2.108)
After approval of this application	
DHHL reservation (reduce by 0.228)	2.677
Take out WUP 359 to compensate for WUP 499	0.516
Available for the other two competing applications	1.692
Other competing applications	(2.108)
Shortage of availability	(0.416)
Notes:	
*the acceptance of WUPA 1089 will come with the retraction of WUPAs 973 and 1058	

Water Use Permit applications for this subject well (DHHL 4-0801-001) and Maui Department of Water Supply (MDWS 4-0801-003) will supercede existing water use permits. Though the applications are for 0.595

mgd (DHHL) and 0.900 mgd (MDWS) as total allocations, because they supercede the previously issued permits for those wells, any calculation of available allocations or deficits are dependent upon only the increase in use from the old permits to the new ones.

Note that the applications for both MDWS and Waiola O Molokai require more justification for the quantities requested. As a result, whether or not there is available allocation from the remainder of sustainable yield is speculation at this point.

The DHHL reservation is incorporated into by rule, and reads as follows:

§13-171-63 Department of Hawaiian home lands reservation for Kualapuu, Molokai. The commission hereby reserves 2.905 million gallons per day of ground water from state lands in the Kualapuu aquifer system for use on Hawaiian home lands on Molokai. This amount shall be in excess of the existing uses of water on Hawaiian home lands as of the effective date of this rule. [Eff. JUN 10 1995] (Auth: HRS §§174C-49(d), 174C-101(a)) (Imp: HRS §§174C-49(d), 174C-101(a), HHCA §221)

Because staff is recommending that all of the increase of DHHL's allocation for this well will be deducted from the DHHL reservation, there is available water to accommodate the DHHL request.

(2) <u>Reasonable-beneficial</u>

Section 174C-3 HRS defines "reasonable-beneficial use" is

"...the use of water in such a quantity as is necessary for economic and efficient utilization, for a purpose, and in a manner which is both reasonable and consistent with the state and county land use plans and the public interest".

I. Purpose of Use

The applicant is requesting the use of potable ground water for their municipal system, which includes domestic, irrigation and other agricultural, and commercial uses.

The Declaration of Policy section, §174C-2€ HRS, states that the Water Code shall be liberally interpreted to obtain maximum beneficial use of the waters of the State for various purposes including all of the uses identified above.

II. Quantity Justification

The applicant is requesting a total of 0.595 mgd for new and existing uses per Section 221 of the Hawaiian Homes Commission Act and non-homestead municipal uses, broken down as follows (this table is from the application, page 18):

Proposed uses	Quantity	Water System Standard (WSS)	Demand based on WSS	2019 average gpd (rounded) ¹⁷	2020 requested amount
Homestead residential service connections	539	600 gpd/unit	329,400	249,000	249,000
Homestead agricultural service connections	26 meters serving approximately 315.5 acres	5000 gad ¹⁸	1,577,500	39,186	40,000
2 commercial agricultural (farming) service connections	2 meters serving 30 acres	5000 gad	150,000	12,243	12,400
3 commercial agricultural (livestock) service connections	3 meters serving 2,506 acres	n/a		12,245	12,400
New, committed service connections (Kalama`ula mauka, Nā'iwa, Ho`olehua)	171	600 gpd/unit	102,600	-	102,600
Maui County delivered water	1 meter		21,000	21,000	21,000
Other commercial connections	61 meters	various	-	146,000	146,000
Sub-dividable homestead lots	40 ¹⁹	600 gpd/unit	24,000	-	24,000
TOTALS			2,028,700	524,429	595,000

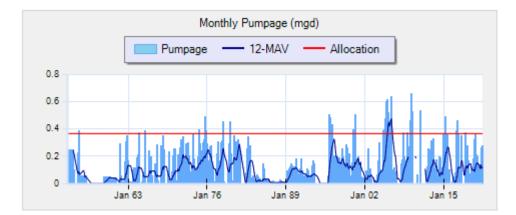
Table DHHL-3. Requested Water Allocations, 2020 WUPA

The Water System Standards of the County Boards of Water Supplies provides guidance regarding reasonable estimates for demand per units or acres. Because the requested amounts are less than the demands based on the Water System Standards, staff's assessment is that the quantities requested are reasonable.

Only two of the uses in the table reflect metered usages. The applicant states that their 2019 audit of PW 230, the non-revenue water as a percentage of volume of water supplied was 9%. Planned improvements to the Ho'olehua Water System will increase water conservation by reducing existing leakage and loss across the system (i.e. reduction of "non-revenue water").

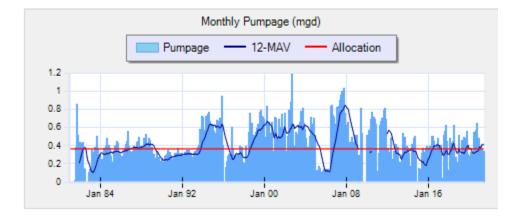
Since establishing reasonable quantities is difficult if not impossible for metered usage, if system efficiency is being addressed, it is an indicator that the uses, at least from the supply and delivery side, are not excessively wasteful.

Nonetheless, existing usage from both wells as shown in the following graphs shows that usage exceeds the current allocation, and thus confirms that additional allocation is necessary, and that this application is warranted. Note that the red lines in the following graphs are not accurate – rather, the 0.367 mgd shown on each graph should be for both wells combined.



Kauluwai 1 (4-0801-001) pumpage

Kauluwai 2 (4-0801-002) pumpage



III. Efficiency of Use

Again, the Ho'olehua water system is subject to annual water audits. While the 2019 data represented a seemingly efficient system, subsequent audits revealed negative losses – in other words, more water appeared to be delivered than what was being supplied by the wells. This

suggests problems with meters, either on the supply or delivery side, or both. However, Commission staff is aware and confirms efforts being made by DHHL to address system losses and to address the anomalies in reported system efficiency.

IV. Analysis of Practical Alternatives

The applicant has addressed the following alternatives to the proposed use of fresh potable water. An analysis of each of the alternatives is as follows:

- 1. **Municipal sources** There are two other municipal sources of water in close proximity to the two DHHL wells. These are also the subject of competing applications and therefore not a viable alternative to the request in this application.
- 2. **Wastewater reuse** The only major non distributed source of wastewater is the Kaunakakai Wasterwater Reclamation Facility. This is not a suitable alternative for potable uses, and the infrastructure doesn't exist for areas that only require non-potable uses. Therefore, staff agrees with the assessment that this is not a viable alternative.
- 3. **Ditch System and Surface Water Alternatives** The Molokai Irrigation System (MIS) is an alternative source, and currently provides water to some homesteaders already. However, not all areas currently serviced by the DHHL system can be served by the MIS. Therefore, in general, MIS is not a viable alternative.
- 4. **Desalinization** Energy costs on Molokai and the uncertain effects of the disposal of residual brine from desalinization processes make this a non-feasible alternative.

(3) <u>Interference with other existing legal uses</u>

There are two other wells very close to the Kauluwai 1 and 2 wells (refer to Exhibit 1). Kualapuu Mauka, owned by Maui DWS, is approximately 660 feet to the west. Well 17, owned by Waiola O Molokai, is approximately 2018 feet to the west.

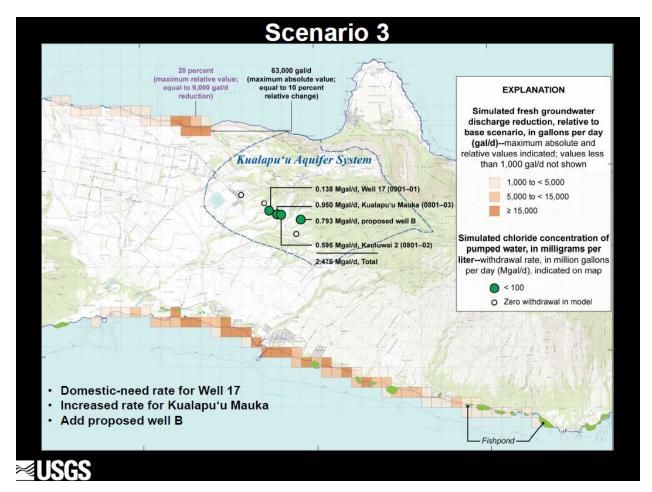
Therefore, perhaps even more critical than the competition of allocations that can't be accommodated by the Sustainable Yield, there is the potential for well interference between the three wells.

As far as existing "legal" uses, the Maui DWS has permitted uses from Kualapuu Mauka, 4-0801-003, through WUP No. 359. Combined with the closer proximity, this makes the potential for well interference even more concerning.

One could look at Well 17 as not having an existing "legal" use as they don't have a current water use permit.

The USGS prepared a study entitled "Groundwater Availability, Moloka'i Hawaii" and presented it to the Commission on September 15, 2020. Pumpage was simulated under different scenarios, and estimates of salinity correlated with different pumpage scenarios were presented. While all scenarios won't be presented here, Scenario 3 represented pumpage from the DHHL wells as 0.595 mgd (this request), pumpage of 0.950 mgd from the MDWS's Kualapuu Mauka well (0.900 mgd requested), and 0.138 mgd was used for Well 17. Salinity all remained less than 100 mg/l in that scenario, which is acceptable for potable uses. The proposed well B in the scenario represents a potential future well that can supply additional DHHL needs.

Therefore, based on the USGS model, well interference is not anticipated if allocations are approved for this and MDWS's requests, but the any action or approval of Well 17's allocation will complicate matters.



(4) <u>Public interest</u>

Public interest is defined under §174C-2 – Declaration of policy, as follows:

"The state water code shall be liberally interpreted to obtain maximum beneficial use of the waters of the State for purposes such as domestic uses, aquaculture uses, irrigation and other agricultural uses, power development, and commercial and industrial uses. However, adequate provision shall be made for the protection of traditional and customary Hawaiian rights, the protection and procreation of fish and wildlife, the maintenance of proper ecological balance and scenic beauty, and the preservation and enhancement of waters of the State for municipal uses, public recreation, public water supply, agriculture, and navigation. Such objectives are declared to be in the public interest."

Additionally, there have been no comments or objections to this application.

This application is for current and foreseeable development and use of Hawaiian home lands as set forth in section 221 of the Hawaiian Homes Commission Act, and also some non-homestead uses of water (Molokai Airport, Molokai Intermediate and High School, Molokai Electric, the county Fire Department, churches, civic organizations, small businesses, and DHHL and other state facilities).

Based on the definition and the uses listed, this application meets the criteria for falling within the public interest.

(5) <u>State & county general plans and land use designations</u>

The proposed uses in the application did not identify the State land use district or the County zoning, and could not be easily confirmed without a listing of specific TMK parcels.

Normal agency review includes:

- the State's Department of Land and Natural Resources (DLNR) and its State Parks, Aquatic Resources, Historic Preservation, and Land Divisions; the Department of Health (DOH) with its Clean Water, Safe Drinking Water, and Wastewater Branches; and Land Use Commission (LUC); and the Office of Hawaiian Affairs (OHA).
- 2) the Office of the Mayor, Department of Planning, and the Department of Water Supply;

No comments or objections have been made through this review.

The applicant cites two sections of the Hawaiian Homes Commission Act of 1920.

Section 204 states that "all available lands shall immediately assume the status of Hawaiian home lands and be under control of the department to be used and disposed of in accordance with the provisions of this title"

Section 206 states that "The powers and duties of the governor and the board of land and natural resources, in respect to lands of the State, shall not extend to lands having the status of Hawaiian home lands, except as specifically provided in this title."

Therefore, one legal interpretation can be that the proposed uses fall within the purview of use by DHHL and therefore are compliant with this section.

(6) <u>County land use plans and policies</u>

See discussion above.

(7) Interference with Hawaiian home lands rights

This application will be deducted from the DHHL's reservation for Kualapu'u Aquifer System Area.

(8) Other issues

Chapter 343 – Environmental Assessment (EA) Compliance

DOH, Office of Environmental Quality Control: An environmental assessment was triggered due to use of state lands and state funds (HRS §343-5(a)). A Final Environmental Assessment (FEA) and Finding of No Significant Impact was issued by the State Department of Hawaiian Home Lands and the FEA was published in the Environmental Notice on June 8, 2016. The OEQC Environmental Notice can be found here:

http://oeqc2.doh.hawaii.gov/The_Environmental_Notice/2016-06-08-TEN.pdf

II. Traditional and Customary Practices

Ka Pa'akai Analysis

In Ka Pa'akai O Ka'aina v. Land Use Commission, the Hawai'i Supreme Court recognized that the State has an obligation to protect Hawaiian traditional and customary practices to the extent feasible, and that the proponent of an action must show sufficient evidence that these types of practices are protected, if they exist in the location in question. This "Ka Pa'akai framework" was created by the Court "to help ensure the enforcement of traditional and customary native Hawaiian rights while reasonably accommodating competing private development interests." The Commission is obligated to conduct a "Ka Pa'akai analysis" of a proposed action requiring CWRM approval independent of the entity proposing the action. This analysis should be used to inform any decision on the impact of the proposed action on traditional and customary practices.

Consequently, the Court required an assessment of the following:

(1) "the identity and scope of 'valued cultural, historical, or natural resources' in the petition area, including the extent to which traditional and customary native Hawaiian rights are exercised in the petition area;

A key component to this was the USGS model referenced above, which also estimated freshwater discharge at the coasts. DHHL conducted a peer review of the study and identified the scope of any valued cultural, historical, or natural groundwater dependent resources.

DHHL conducted extensive research into the potential for cultural impacts. Interviewers discussed traditional and customary resources and practices with selected practitioners in the Kalama'ula area. Long term and multi-generational Kalama'ula homesteaders are aware of the importance of mauka to makai freshwater flows to the health of the nearshore environment. Though the practice of subsistence fishing and limu and shellfish harvest is diminishing, it nonetheless plays an important role in perpetuating the society, culture and identity of homesteaders.

(2) "the extent to which those resources -- including traditional and customary native Hawaiian rights -- will be affected or impaired by the proposed action;" and

An example of potential impacts, from an interview with Penny Martin, indicated that native mullet are dependent on fresh water discharge, and 'ōpae and āholehole availability has diminished due to less freshwater. She understands that kiawe and mangrove use up lots of fresh water.

(3) "the feasible action, if any, to be taken ... to reasonably protect native Hawaiian rights if they are found to exist."

DHHL is proposing that the Commission impose the following conditions in approving this water use permit application. These are as follows:

- Work to implement community-led efforts to replace invasive species with native species to try to improve the health of the coastal ecosystem;
- Support and encourage efforts to reduce erosion and restore native vegetation in Kalama'ula's mauka areas; and
- Make available certain Community Use designated areas as outdoor classrooms for schoolchildren, particularly for the perpetuation of traditional and customary groundwater dependent practices and resource management.

These proposed conditions are a positive step towards addressing impacts to traditional and customary practices by DHHL. Staff feels that because modeled estimates for coastal freshwater discharge were simulated based also on wells being pumped by MDWS and Waiola O Molokai, these conditions can be imposed on all three users at the same time and in conjunction with each other, and perhaps the Commission can entertain modifying these requirements if/when the other users have their allocations acted on.

<u>RECOMMENDATION</u>:

Staff recommends that the Commission approve the issuance of water use permit no. 1100 to Department of Hawaiian Home Lands, Molokai for the reasonable and beneficial use of 0.595 million gallons per day of fresh potable water for uses per Section 221 of the Hawaiian Homes Commission Act and non-homestead municipal use From the Kauluwai 1 & 2 wells (Well No. 4-0801-001 and -002), and subject to the standard water use permit conditions listed in Exhibit 6 and the following special conditions:

- 1. This permit is subject to suspension and/or revocation if the use as described in Table DHHL-3, and/or the service area in Exhibit 1, changes. This includes, but is not limited to: type of use, location of use, land use classification changes, or anything that varies from the application.
- 2. In the event that the tax map key at the location of the water use is changed, the permittee shall notify the Commission in writing of the tax map key change within thirty (30) days after the permittee receives notice of the tax map key change.
- 3. The approved allocation is subject to revision should well interference deviate from the USGS's model's predictions and there are negative impacts to adjacent wells.

- 4. Require the applicant to implement the following mitigative measures, subject to future revisions when if/when the other applications in the aquifer are acted on:
 - Work to implement community-led efforts to replace invasive species with native species to try to improve the health of the coastal ecosystem;
 - Support and encourage efforts to reduce erosion and restore native vegetation in Kalama'ula's mauka areas; and
 - Make available certain Community Use designated areas as outdoor classrooms for schoolchildren, particularly for the perpetuation of traditional and customary groundwater dependent practices and resource management.
 - 5. Authorize the Chairperson to begin rulemaking proceedings to reduce DHHL's reservation for Kualapuu from 2.905 mgd to 2.677 mgd.

Ola i ka wai,

Huker O

M. KALEO MANUEL Deputy Director

Exhibits:

- 1 (Location Map)
- 2 (Water Use Permit Detailed Information)
- 3 (Public Notice)
- 4 (Existing Water Use Permits and 12-Month Moving Average Withdrawal)
- 5 (Pending Water Use Permit Applications)
- 6 (Water Use Permit Standard Conditions)
- 7 (Application)

APPROVED FOR SUBMITTAL:

Sgame Q. Code

SUZANNE D. CASE Chairperson

July 20, 2021



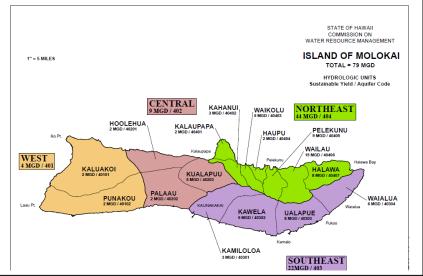
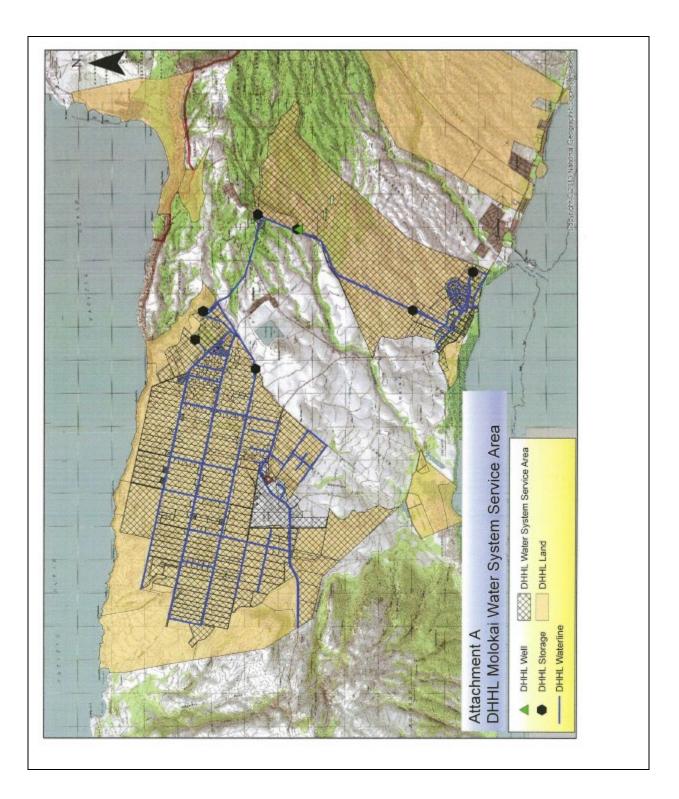


EXHIBIT 1: LOCATION MAP

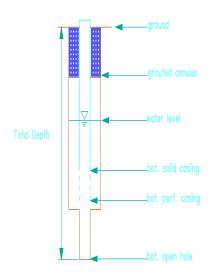


WATER USE PERMIT DETAILED INFORMATION

Source Information

AQUIFER:	Kualapuu System, Central Sector, Molokai
Sustainable Yield:	5 mgd
Existing Water Use Permits:	3.824 mgd
Available Allocation:	1.176 mgd
Total other pending applications:	2.108 mgd
This application:	0.595 mgd
WELL: Location: Year Drilled: Casing Diameter: <u>Elevations</u> (msl= 0 ft.) Water Level:	Kauluwai 1 (Well No. 4-0801-001) 1778 Kalae Highway, Molokai, TMK: (2) 5-2-010:003 1948 14 in. 10.7 ft.
Ground:	1005 ft.
Bottom of Solid Casing:	-4 ft.
Bottom of Perforated:	-90 ft.
Bottom of Open Hole:	-90 ft.
Total Depth:	1095 ft.
Grouted Annulus Depth:	unknown
Pump Capacity	425 gpm
WELL: Location: Year Drilled: Casing Diameter: <u>Elevations</u> (msl= 0 ft.) Water Level: Ground: Bottom of Solid Casing: Bottom of Perforated: Dattern of Open Heley	Kauluwai 2 (Well No. 4-0801-002) 1778 Kalae Highway, Molokai, TMK: (2) 5-2-010:003 1979 14 in. 7.8 ft. 1011 ft. -29 ft. -89 ft. -89 ft.
Bottom of Open Hole:	-89 ft.
Total Depth:	1100 ft.
Grouted Annulus Depth:	unknown
Pump Capacity	750 gpm

EXHIBIT 2: WATER USE PERMIT DETAILED INFORMATION



Use Information

Quantity Requested: Existing / New Use: Place of Water Use: 0.595 million gallons per day Municipal Various

Nearby Surrounding Wells and Other Registered Ground Water Use

There are 3 other wells within a mile of these two wells (see Exhibit 1). The DWS's well (4-0801-003) is currently in use. Well 17 (4-0901-001) does not have an allocation. The last well is the Kualapuu Deep Monitor Well (USGS well, state well no. 4-0800-001), but is not a production well.

Public Notice

In accordance with HAR §13-171-17, a public notice was published in the Honolulu Advertiser on 04/26/2021 and 05/03/2021 and a copy of the notice was sent to the Office of the Mayor. Copies of the completed application were sent to the Department of Water Supply, Planning Department, Department of Health, Department of Hawaiian Home Lands, Office of Hawaiian Affairs, the various divisions within the Department of Land and Natural Resources, and other interested parties for comments. Written comments and objections to the proposed permit were to be submitted to the Commission by 5/17/2021.

EXHIBIT 2: WATER USE PERMIT DETAILED INFORMATION

Objections

The public notice specifies that an objector meet the following requirements: (1) state property or other interest in the matter; (2) set forth questions of procedure, fact, law, or policy, to which objections are taken; (3) state all grounds for objections to the proposed permits, (4) provide a copy of the objection letter(s) to the applicant, and (5) submit objections meeting the previous requirements to the Commission by .

To the best of staff's knowledge there are no objectors who have property interest within the Kualapuu Aquifer System or who will be directly and immediately affected by the proposed water use.

Briefs in Support

Responses to objections, or briefs in support, regarding the application are required to be filed with the Commission ten (10) days after an objection is filed and, presumably, copies are served to the applicant. No briefs in support were filed with the Commission.

	PUBLIC	NOTICE			
	Application for W Kualapuu Ground Water M	Vater Use Permit Janagement Area, Moloka	ú		
The following applica	tion for water use permit has been receive		-	source Management	and is
ereby made public Management Areas.	in accordance with Section 13-171, Hawa	aii Administrative Rules, "[Designatio	on and Regulation of	Water
GWUPA No. 01100	Kauluwai 1 & 2 wells (Well Nos. 4-08	01-001 & 002)			
Full application link:	https://dlnr.hawaii.gov/cwrm/newsevents/	notices			
Applicant:	Department of Hawaiian Home Lands P.O. Box 1879 Kapolei, HI 96805	ŝ			
.andowner:	Department of Hawaiian Home Lands P.O. Box 1879 Kapolei, HI 96805	5			
Date Application File	<u>d as Complete</u> : April 8, 2021 <u>iffer System Area</u> : Kualapuu System, C	entral Sector, Molokai			
Water Sources Well No.	Well Name	Tax Map Key	Aquifer	System Area	
4-0801-001	Kauluwai 1	(2) 5-2-010:003	Kualapu	uu System,Central Molokai	
4-0801-002	Kauluwai 2	(2) 5-2-010:003	Kualapu	uu System,Central Molokai	
Description Description of a start	O EOE and the set of t				
Proposed Use: End Use	Agriculture, Municipal, Individual Dom		, Other Us		
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EXHIBIT 3: PUBLIC NOTICE

Aquifer	System G	round Water Management Ar	40203 Kualapuu							
Sustain	able Yield	(mgd):		5						
Wup No	Approved	Permittee	Well No	Well Name	WUP (mgd)	12-MAV (mgd)	Diff (mgd)	Date Last Reported		
00267	09/15/1993	Department of Hawaiian Home Lands, Molokai, DHHL	4-0801-001	Kauluwai 1	0.367	0.116	-0.162	04/30/2021		
			4-0801-002	Kauluwai 2		0.413		04/30/2021		
00269	09/15/1993	Maui Department of Water Supply, MDWS	4-1059-001	Waikalae Tunnel	0.036	0.000	0.036	05/31/2021		
00359	10/20/1995	Maui Department of Water Supply, MDWS	4-0801-003	Kualapuu Mauka	0.516	0.334	0.182	05/31/2021		
00568	03/14/1995	Department of Hawaiian Home Lands, Molokai, DHHL		RESERVATION	2.905					
Summary I	for Kualapuu (5 detail records)		Total:	3.824	0.863	2.961			
				SY Available:	1.176					
Sustainab	le Yield: 79			SY Available:	75.18					

EXHIBIT 4: EXISTING WATER USE PERMITS AND 12-MONTH MOVING AVERAGE WITHDRAWAL

Water Use Permit Applications pending acceptance or action

Water Use Permit application 499

Applicant: Maui Department of Water Supply Well: Kualapuu Mauka (State Well No. 4-0801-003) Application submitted on: 4/29/1998 Application accepted on: 10/12/2015

Water Use Permit application 973

Applicant: Molokai Public Utilities Well: Well 17 (State Well No. 4-0901-001) Application submitted on: 4/29/1998 Application accepted on: 10/12/2015

Water Use Permit application 1058

Applicant: Waiola o Molokai Well: Well 17 (State Well No. 4-0901-001) Application submitted on: 7/11/2018 Application accepted on: not yet accepted

Water Use Permit application 1089

Applicant: Molokai Properties Ltd. Well: Well 17 (State Well No. 4-0901-001) Application submitted on: 3/11/2019 Application accepted on: not yet accepted

EXHIBIT 5: PENDING WATER USE PERMIT APPLICATIONS

STANDARD WATER USE PERMIT CONDITIONS

- 1. The water described in this water use permit may only be taken from the location described and used for the reasonable beneficial use described at the location described above. Reasonable beneficial uses means "the use of water in such a quantity as is necessary for economic and efficient utilization which is both reasonable and consistent with State and County land use plans and the public interest." (HRS § 174C-3)
- 2. The right to use ground water is a shared use right.
- 3. The water use must at all times meet the requirements set forth in HRS § 174C-49(a), which means that it:
 - a. Can be accommodated with the available water source;
 - b. Is a reasonable-beneficial use as defined in HRS § 174C-3;
 - c. Will not interfere with any existing legal use of water;
 - d. Is consistent with the public interest;
 - e. Is consistent with State and County general plans and land use designations;
 - f. Is consistent with County land use plans and policies; and
 - g. Will not interfere with the rights of the Department of Hawaiian Home Lands as provided in section 221 of the Hawaiian Homes Commission Act and HRS § 174C-101(a).
- 4. The ground water use here must not interfere with surface or other ground water rights or reservations.
- 5. The ground water use here must not interfere with interim or permanent instream flow standards. If it does, then:
 - a. A separate water use permit for surface water must be obtained in the case an area is also designated as a surface water management area;
 - b. The interim or permanent instream flow standard, as applicable, must be amended.
- 6. The water use authorized here is subject to the requirements of the Hawaiian Homes Commission Act, as amended, if applicable.
- 7. The water use permit application and submittal, as amended, approved by the Commission at its meeting are incorporated into this permit by reference.
- 8. Any modification of the permit terms, conditions, or uses may only be made with the express written consent of the Commission.
- 9. This permit may be modified by the Commission and the amount of water initially granted to the permittee may be reduced if the Commission determines it is necessary to:
 - a. protect the water sources (quantity or quality);
 - b. meet other legal obligations including other correlative rights;
 - c. insure adequate conservation measures;
 - d. require efficiency of water uses;

- e. reserve water for future uses, provided that all legal existing uses of water as of June, 1987 shall be protected;
- f. meet legal obligations to the Department of Hawaiian Home Lands, if applicable; or
- g. carry out such other necessary and proper exercise of the State's and the Commission's police powers under law as may be required.

Prior to any reduction, the Commission shall give notice of its proposed action to the permittee and provide the permittee an opportunity to be heard.

- 10. An approved flowmeter(s) need not be installed to measure monthly withdrawals and a monthly record of withdrawals, salinity, temperature, and pumping times must be kept and reported to the Commission on Water Resource Management on forms provided by the Commission on a basis (attached).
- 11. This permit shall be subject to the Commission's periodic review of the **Kualapuu** Aquifer System Area's sustainable yield. The amount of water authorized by this permit may be reduced by the Commission if the sustainable yield of the **Kualapuu** Aquifer System Area, or relevant modified aquifer(s), is reduced.
- 12. A permit may be transferred, in whole or in part, from the permittee to another, if:
 - a. The conditions of use of the permit, including, but not limited to, place, quantity, and purpose of the use, remain the same; and
 - b. The Commission is informed of the transfer within ninety days.

Failure to inform the department of the transfer invalidates the transfer and constitutes a ground for revocation of the permit. A transfer which involves a change in any condition of the permit, including a change in use covered in HRS § 174C-57, is also invalid and constitutes a ground for revocation.

- 13. The use(s) authorized by law and by this permit do not constitute ownership rights.
- 14. The permittee shall request modification of the permit as necessary to comply with all applicable laws, rules, and ordinances which will affect the permittee's water use.
- 15. The permittee understands that under HRS § 174C-58(4), that partial or total nonuse, for reasons other than conservation, of the water allowed by this permit for a period of four (4) continuous years or more may result in a permanent revocation as to the amount of water not in use. The Commission and the permittee may enter into a written agreement that, for reasons satisfactory to the Commission, any period of nonuse may not apply towards the four-year period. Any period of nonuse which is caused by a declaration of water shortage pursuant to section HRS § 174C-62 shall not apply towards the four-year period of four-year period of four-year period.
- 16. The permittee shall prepare and submit a water shortage plan within 30 days of the issuance of this permit as required by HAR § 13-171-42(c). The permittee's water shortage plan shall identify what the permittee is willing to do should the Commission declare a water shortage in the **Kualapuu** Ground Water Management Area.

- 17. The water use permit shall be subject to the Commission's establishment of instream standards and policies relating to the Stream Protection and Management (SPAM) program, as well as legislative mandates to protect stream resources.
- 18. Special conditions in the attached cover transmittal letter are incorporated herein by reference.
- 19. The permittee understands that any willful violation of any of the above conditions or any provisions of HRS § 174C or HAR § 13-171 may result in the suspension or revocation of this permit.

DAVID Y. IGE GOVERNOR STATE OF HAWAII

JOSH GREEN LT GOVERNOR STATE OF HAWAII



WILLIAM J. AILA, JR CHAIRMAN HAWAIIAN HOMES COMMISSION

TYLER I. GOMES DEPUTY DIRECTOR HAWAIIN HOMES COMMISSION

STATE OF HAWAII DEPARTMENT OF HAWAIIAN HOME LANDS

P O BOX 1879 Honolulu, hawaii 96805

October 12, 2020

Ms. Suzanne Case, Chairperson Mr. M. Kaleo Manuel, Deputy Director Commission on Water Resource Management P.O. Box 621 Honolulu, HI 96809

Subject: Ground Water Use Permit Application – New (GWUPA-New) for Kauluwai Wells 1 & 2, Kualapu'u, Moloka'i

Dear Ms. Case and Mr. Manuel,

The Department of Hawaiian Home Lands (DHHL) here submits a GWUPA-New, for Kauluwai wells 1 & 2, Kualapu`u Molokai, seeking to increase our permitted pumping from .367 mgd to .595 mgd, for both Public Trust and non-Public Trust, reasonable beneficial uses on Molokai. Our application is comprised of this letter, the application form, four attachments and four exhibits. If granted, expressed as a percentage of Sustainable Yield (SY), DHHL is seeking to increase its current allowed rate of using 7.34% by 4.56% to 11.9% of the SY in Kualapu`u.

As you know, beneficiaries have been waiting nearly three decades for DHHL to be able to provide additional homesteading opportunities on the island. Our requests to increase our pumping, even as Molokai Ranch has been permitted to continue to pump without a permit, have to this date been unsuccessful. The challenges to our securing an increased allocation have been many, beyond even the Molokai Ranch's previous request for a contested case against us, later withdrawn. This has directly and negatively affected our ability to increase homesteading on the island.

Because our agencies share a commitment to protecting the water resources of Molokai and their Public Trust uses, we would like to highlight that for over two decades, DHHL has taken the following actions to better understand these resources:

• DHHL & the United States Geological Survey (USGS) funded the Molokai water budget study to establish baseline information on the Kualapu`u and surrounding Aquifers

Exhibit 7: Application

Ground Water Use Permit Application for Kauluwai Wells 1 & 2 Kualapu'u Molokai October 12, 2020 Page # 2

- DHHL & USGS funded the original Kualapu`u Aquifer computer model to estimate the hydrologic impacts of groundwater withdrawals under different pumping level and location scenarios
- DHHL, USGS and Maui County funded construction of the Kualapu'u Monitoring Well to provide information on water levels and salinity variations with depth in the aquifer
- County of Maui, DHHL, the Office of Hawaiian Affairs, and USGS funded a more complex three-year \$900,000 study to provide updated groundwater recharge estimates and quantify hydrologic impacts of groundwater. This study has now been published and is available to CWRM to inform allocation decisions.

Please also note that Molokai Ranch and CWRM were invited to provide funding for these studies, but declined.

We have appreciated your staff's recent willingness to review a draft form of this application and their commitment that it would be accepted as complete. We ask that this application be accepted as complete and noticed as soon as possible. We also seek that rather than consider this application in conjunction with others, which may subject our beneficiaries to further delay, you consider this application before considering any other additional uses in the aquifer.

We thank you for your consideration of these requests.

C. Hawaiian Homes Commission



STATE OF HAWAII

DEPARTMENT OF LAND AND NATURAL RESOURCES COMMISSION ON WATER RESOURCE MANAGEMENT

APPLICATION FOR GROUND WATER USE PERMIT FOR PROPOSED NEW USE IN A DESIGNATED GROUND WATER MANAGEMENT AREA

FORM GWUPA-N

Application for New Use Application to Modify WUP No. 267

For detailed instructions on filling out this application form completely, refer to the attached instructions. Incomplete applications will not be accepted for processing.

The following must be attached before this application is accepted as complete:

Portion of 7.5-Minute Series USGS topographic map (scale 1:24,000) with source location labeled and include the name of the quad map.
 Property tax map, showing source location referenced to established property boundaries.

- Photograph(s) of the source(s) and location(s) of proposed end use(s), if applicable. SEE ATTACHMENT A

APPLICANTS IN	IFORMATION			2. SOUR	CE LANDO	WNER'S INFC	RMATION	
ame/Company 'illiam J. Ailā, Jr. C epartment of Hawa	Chairman	Contact Person Andrew Choy, Acting I Program Manager	Planning	Name/Company Contact Person Same Same				
ailing Address .O. Box 1879 onolulu, Hawai`i 9	06805			Mailing Ac Same	ldress			
hone 308) 620-9500	Fax (808) 620-9559	E-mail andrew.h.choy@h	awaii.gov	Phone Same		Fax Same		E-mail Same
OURCE INFO	RMATION							
ISLAND								
Molokai GROUND WATEF Kualapu`u	R MANAGEMENT A	REA		4A. SUST 5*		YIELD FOR IT		3)
SOURCE INFORM	MATION sheets, if necessary.							
Well Number (if known)	Well Name	Existing or Proposed?		ТМ	к		Flow	meter installed?
4-0801-001	Kauluwai 1	Existing	5 - zone -	2	10 :	07 X Y	′es, date inst No	alled <u>10</u> / <u>12</u> / <u>1995</u>
4-0801-002	Kauluwai 2	Existing	5 - zone	2	10 :	parcel		
		211	zone	sector	plat :	parcel		
			zone	sector	plat .	parcel		
			zone	sector	plat .	parcel		
			zone	sector	plat .	parcel	Yes, date ins No	talled / /
ROPOSED U	SE INFORMA	FION §§174C-51(4), (5	i), (6), HRS					
TOTAL QUANTIT	TY OF WATER REQ	UESTED: In the space b	elow, enter t	total from Bo	x M in Item	11 (Table 1) o	f this applic	ation.
TOTAL QUANTIT 595,000 gallons p	TY OF WATER REQ per day, averaged ov	UESTED: In the space b er 1 year (SEE ATTACH	elow, enter f MENT B)				f this applic	ation.
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PROPOSED	NEW	USE	OR	MODIFIED	USE	INFORMATION	
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LAND USE CONSISTENCY		Contraction of the second	Active services and the services of the services of the service services of the services of the service services of the servic			EFFICIENC	Y OF USE		
А	В	С	D	E	F	G	н	1	J
PURPOSE / WATER USE CATEGORY (See the Instructions for water use category descriptions.)	TMK FOR PROPOSED LOCATION OF USE ATTACH THE FOLLOWING: Property tax map, showing proposed location of use referenced to established property boundaries. Photograph of the area of proposed use.	STATE LAND USE DISTRICT	CDUP REQUIRED? Check the appropriate box, and write in the date approved, if applicable.	COUNTY ZONING CODE	SMAP REQUIRED? Check the appropriate box, and write in the date approved, if applicable.	UNITS OR NET ACREAGE	GPD/UNIT or GPD/ACRE	QUANTITY OF USE (GPD)	JUSTIFICATION FOR QUANTITY OF WATER REQUESTED (If applicable, attach additional sheets showing how the quantity was calculated For irrigation uses, fill in Table 2.
USES THAT REQUIRE POTA	ABLE (DRINKING) WATER	17							
	zone sector plat parcel		Yes, date approved: / / Yes, not acquired No		Yes, date approved:				
	· · ·		Yes, date approved: / / Yes, not acquired		☐ Yes, date approved: / / ☐ Yes, not acquired				
	zone sector plat parcel		No Yes, date approved: / / Yes, not acquired		No Yes, date approved: / / Yes, not acquired				
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	zone sector plat parcel		No Yes, date approved: / / Yes, not acquired		No Yes, date approved: / / Yes, not acquired				
	zone sector plat parcel		□ No		□ No				
							TABLE USE		GPD
		TOTAL OUA	NTITY OF WATER PEOU	IESTED (sum of total potable use ar	nd total non-n	otable use) =	M	GPD

al) on the proposed water use(s) described in Table 1. Ref. HRS § 174C-51(5).

FORM GWUPA-N (January 28, 2016) Page 2 of 7

Α	В	С	D	E	F	G	Н	1
FOR PROPOSED LOCATION OF USE ACH THE FOLLOWING Property tax map with an outline around the area of each proposed irrigation use listed in this table. Photograph of the area of each proposed use.	CROP	TOTAL ACREAGE	NET IRRIGATED ACREAGE	BEGIN GROWTH PERIOD (month)	END GROWTH PERIOD (month)	IRRIGATION SYSTEM (refer to instructions)	IRRIGATION PRACTICE (refer to instructions)	COMMENTS (Continue comments below, if more space is needed.)
zone sector plat parcel				-				
zone sector plat parcel								
zone sector plat parcel								
zone sector plat parcel								
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zone sector plat parcel								
zone sector plat parcel								
zone sector plat parcel								
zone sector plat parcel								
ments (continued from Column I). Please clearly i	ndicate the crop (i.e.,	the row in table) these	e comments relate	e to.			1	

FORM GWUPA-N (January 28, 2016) Page 3 of 7

TADIES ALTERNIATE		
3. TABLE 3: ALTERNATIV	A. Analysis of <i>potable</i> alternatives	B. Analysis of non-potable alternatives
	Attach additional sheets if necessary.	Attach additional sheets if necessary.
Municipal sources		
	. 1	
Wastewater reuse		
Ditch system		
Desalinization		
Surface water		
Sunace water		
Conservation Measures		
Other (specify)		
		on of traditional and customary Hawaiian rights, the protection and alance and scenic beauty, and the preservation and enhancement of pub, apriculture, and navigation. Such objectives are declared to be
waters of the State for m in the public interest.	unicipal uses, public recreation, public water su d new use(s) in your application are consistent wi	valance and scenic beauty, and the preservation and enhancement of pply, agriculture, and navigation. Such objectives are declared to be
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INSTRUCTIONS FOR FILLING OUT APPLICATION FOR GROUND WATER USE PERMIT FOR A PROPOSED NEW USE OR TO MODIFY A GROUND WATER USE PERMIT

This application form is to be used for proposed new uses, including modifications of existing ground water use permits. If you are applying for an existing ground water use, which are uses prior to the effective date of designation, do not use this form. Instead, use the *Application for Ground Water Use Permit for Existing Use* (Form GWUPA-E) for existing uses.

Most questions can be addressed by visiting our website at <u>http://www.hawaii.gov/dlnr/cwrm</u> or by contacting the Regulation Branch at 587-0225 or by e-mail at <u>dlnr.cwrm@hawaii.gov</u>. If you need further assistance, call the Regulation Branch. The current application forms are available at: http://www.hawaii.gov/dlnr/cwrm/resources_permits.htm.

REQUIREMENTS FOR A COMPLETE APPLICATION

- a. Fill in the most recent application form. A current form can be obtained by going to our website or contacting us by phone or e-mail.
- b. Print in ink or type the information on the application.
- c. The application form has a total of 16 items on 4 pages. Items 11, 12, and 13 are tables, with multiple line items. Fill in the required information for every item in the application form as it relates to your proposed new use or permit modification.
- d. Enclose a check for the non-refundable filing fee of \$25 payable to: Department of Land and Natural Resources. (Government agencies are not required to pay the filing fee.)
- e. Please be aware that the applicant is responsible for paying the cost of publishing any required public notices associated with this application. The cost for public notices is currently approximately \$400.00. Commission staff will provide instructions later in the permit process regarding payment of these costs.
- f. Mark the proposed source and end use location(s) on the appropriate USGS quad map (scale 1:24,000) and property tax map, and attach these maps to the application.
- g. Attach photos showing the existing or proposed source(s), meter(s) (if applicable), and end use area(s).
- h. Both the applicant and the landowner where the source is located ("source landowner") must sign the application form in ink.
- Submit the original application, 15 copies of the application form and all attachments (maps, photos, and other attachments), and the filing fee to the Commission on Water Resource Management, P.O. Box 621, Honolulu, HI 96809.

Further, the applicant must address §174C-49(a) of the State Water Code, which states that:

To obtain a permit pursuant to this part, the applicant shall establish that the proposed use of water:

- (1) Can be accommodated with the available water source;
- (2) Is a reasonable-beneficial use¹ as defined in section 174C-3;
- (3) Will not interfere with any existing legal use of water;
- (4) Is consistent with the public interest²;
- (5) Is consistent with state and county general plans and land use designations;
- (6) Is consistent with county land use plans and policies; and
- (7) Will not interfere with the rights of the department of Hawaiian home lands as provided in section 221 of the Hawaiian Homes Commission Act.
- ¹ According to \$174C-3, HRS, "Reasonable-beneficial use" means the use of water in such a quantity as is necessary for economic and efficient utilization, for a purpose, and in a manner which is both reasonable and consistent with the state and county land use plans and the public interest.
- ² Public interest is described in §174C-2(c), HRS, which states: [1]he state water code shall be liberally interpreted to obtain maximum beneficial use of the waters of the State for purposes such as domestic uses, aquaculture uses, irrigation and other agricultural uses, power development, and commercial and industrial uses. However, adequate provision shall be made for the protection of traditional and customary Hawainar rights, the protection and procreation of fish and wildlife, the maintenance of proper ecological balance and scenic beauty, and the preservation and enhancement of waters of the State for municipal uses, public recreation, public water supply, agriculture, and navigation. Such objectives are declared to be in the public interest.

NOTE: Filling in the application completely will address §174C-49(a), HRS.

LINE-BY-LINE INSTRUCTIONS FOR COMPLETING THE APPLICATION FORM

APPLICANT INFORMATION

In accordance with the Hawaii Water Code, both the applicant and the person who owns the property where the water source is located are required to apply for a water use permit. 1/4C-51(1)(B), HRS, states, *In the event a lessee, licensee, developer, or any other person with a terminable interest or estate in the land, which is the water source of the permitted water, applies for a water permit, the landowner shall also be stated as a joint applicant for the water permit.*

- APPLICANT INFORMATION Fill in the information for the applicant. This should be the person who will be responsible for all
 conditions of the water use permit.
- 2. SOURCE LANDOWNER INFORMATION Fill in the information for the landowner of the property where the proposed ground water source (e.g., well, modified spring, tunnel, shaft, etc.) is located.

SOURCE INFORMATION

- 3. ISLAND Check the appropriate box, noting the island where the source is located.
- 4. GROUND WATER MANAGEMENT AREA The name of the aquifer system area where the source is located.
- 4A. SUSTAINABLE YIELD The sustainable yield for the aquifer system area.
- 5. SOURCE INFORMATION
 - WELL NUMBER If the source already has a state-assigned well number, write the state well number here.
 - WELL NAME If the proposed source already has a name, write the name here. Otherwise, give it a short name that will differentiate it from other wells.
 - SOURCE TMK Fill in the current Tax Map Key number of the parcel where the source is located.
 - FLOWMETER INFORMATION Check either "Yes" or "No." If you answer "Yes," write in the date the flowmeter was installed month/day/year in the space provided. (The definition of a working flowmeter is a water meter with a totalizer that gives the total quantity of water used from a source.)

PROPOSED USE INFORMATION

(Ref. §§ 174C-51(4), (5), (6), HRS)

6. TOTAL QUANTITY OF WATER REQUESTED Enter the amount of water requested as gallons per day (GPD) averaged over one year. Fill out Table 1 and enter the amount in Box 14, "Total Use Requested."

- PROPOSED USE(S) Check all the boxes that apply for the proposed use. Refer to the instructions for Table 1: Land Use Consistency/Efficiency of Use, Item 1: Purpose/Water Use Category below to determine which water use category to use.
- 8. LOCATION OF PROPOSED WATER USE(S) Show the location of the proposed use on the same USGS and TMK maps as the proposed source location. Otherwise, attach similar maps and show the location of the proposed use.

APPLICANT SIGNATURES REQUIRED

- 9. APPLICANT The Applicant must sign and date the application. Please print or type the Applicant's name in the space provided.
- 10. SOURCE LANDOWNER The Source Landowner must also sign and date the application. Please print or type the Source Landowner's name in the space provided.

PROPOSED NEW USE OR MODIFIED USE INFORMATION

- 11. Table 1: LAND USE CONSISTENCY / EFFICIENCY OF USE Provide information on all of the proposed uses you are applying for or seeking to modify. In the space provided below the table or on a separate sheet, explain whether there are any limitations [e.g., a contract or other legal agreement(s)]on your proposed water use(s), as required by §174C-51(5), HRS.
 - A. PURPOSE / WATER USE CATEGORY For each purpose of use, choose one of the categories listed in the table below and enter the appropriate code in the space provided (e.g., AGRAQ, IRRGC, etc.)

X AGRAQ AGRCP AGRLI AGRON AGROTH	Aquatic Plants & Animals Crops & Processing Livestock & Processing, and Pasture Ornamental & Nursery Plants Other	DOMESTIC DOM DOMN DOMNCB DOMNRI DOMNHOS DOMNHOT DOMNOB DOMNOTH DOMNSC	Single & Multi Low-Rise & High-Rise Household Domestic (Non-residential) Commercial Businesses Religious Institutions Hospitals Hotels Office buildings Domestic Non-Residential - Other Schools
IRRIGATION IRRGC IRRHM IRRHOT IRRLA IRROTH IRRPA IRRSC	Golf Course Habitat Maintenance Hotel Landscape/Water Features Other Parks Schools	INDUSTRIAL INDEL INDFP INDMI INDOTH	Geothermal, Thermoelectric Cooling, Power Development Fire Protection Mining, Dust Control Industrial – Other
MILITARY MIL	Military	MUNICIPAL MUNCO MUNPR MUNST	County Privately-owned but defined as public water system by DOH State

- B. USE TMK Enter the tax map key (TMK) number for the parcel of land over which the use is applied. There should only be one parcel for each line. Also, attach:
 - (1) A TMK map (or maps) showing each of the lots listed and the boundaries of the end use area(s); and
 - (2) A photograph of the area of use.
- C. STATE LAND USE DISTRICT Write in the name of the current land use district. To find the Land Use District, contact the Land Use Commission at (808) 587-3822.
- D. CDUP REQUIRED? Check the appropriate box. If a Conservation District Use Permit (CDUP) is required and you have a CDUP applicable to this project, check "Yes" and write in the date approved in the space provided (month/day/year). If your parcel is in a conservation district, as indicated in Column C of this table, contact the Office of Conservation and Coastal Lands at (808) 587-0328 to find out if a CDUP is required.
- E. COUNTY ZONING CODE To find out the County Zoning Code for Oahu, contact the City and County of Honolulu at 768-8041. For Maui County, contact at 270-7253.
- F. SMAP REQUIRED? Check the appropriate box. If a Special Management Area Permit (SMAP) is required, and you have an SMAP applicable to this project, check "Yes" and write in the date approved in the space provided (month/day/year). To find out if your parcel is in a Special Management Area and requires an SMAP, for Oahu call the City and County of Honolulu at 768-8014 or for Maui County call the Planning Department at 270-8205.
- G. UNITS or NET ACREAGE This is the total number of units or the net number of acres as a basis for calculating your requested allocation. "Unit" can mean a dwelling unit, number of people, or number of animals. Some examples of units or acreages to enter in this column would be 400 dwelling units, 500 people, or 3.74 acres.
- H. GPD/UNIT or GPD/ACRE (GPD = gallons per day) Enter the gallons per day per unit (GPD/unit) or gallons per day per acre (GPD/acre) for each water use category listed in Column A.
- I. QUANTITY OF USE Enter the proposed quantity of water use in gallons per day (GPD). Justification (see Column J) for the quantity(ies) requested may depend on the information provided in columns G and H of this table.
- J. JUSTIFICATION FOR QUANTITY OF WATER REQUESTED Explain how you are justifying the quantity of water requested for each use, in Column I of this table. Attach additional sheets, if necessary, showing how the proposed quantity was calculated. For all proposed irrigation uses, you are required to also complete Item 12 (Table 2) of the application.
- K. TOTAL POTABLE USE Add the quantities listed in the Column I for proposed potable water use(s). Enter the total quantity in gallons per day (GPD) in Box K.
- L. TOTAL NON-POTABLE USE Add the quantities listed in Column I for proposed uses that do not require potable water. Enter the total quantity of proposed non-potable water use in gallons per day (GPD) in Box L.
- M. TOTAL QUANTITY OF WATER REQUESTED Add the totals in Box K and Box L, and enter the sum in Box M. The quantity in Box M should be the same as the amount entered under Item 6 on the page 1 of the application.

12. TABLE 2: IRRIGATION INFORMATION

On Table 2, provide the information requested for all the crops you are proposing to grow, including landscapes and golf course turf and plants. Enter only one crop and one parcel number (TMK) per line. For multiple crops, list each one as a separate line item. All proposed or modified irrigation uses you are applying for must be listed. Attach additional copies of Table 2, if necessary.

- A. TMK FOR PROPOSED LOCATION OF USE Enter the parcel number where the crop will be grown. Also, attach a property tax map with an outline around the area(s) of proposed use(s) and a photograph of each area of proposed use.
- B. CROP Enter the crop type
- C. TOTAL ACREAGE Enter the total acreage of the parcel listed.
- D. NET IRRIGATED ACREAGE Enter the acreage that the specific crop will be grown.
- E. BEGIN GROWTH PERIOD (MONTH) This is the month of the start of the growth cycle.
- F. END GROWTH PERIOD (MONTH) This is the month of the end of the growth cycle.
- G. IRRIGATION SYSTEM Enter one of the following:

TRICKLE, DRIP TRICKLE, SPRAY MULTIPLE SPRINKLERS SPRINKLER, CONTAINER NURSERY SPRINKLER, LARGE GUNS SEEPAGE, SUBIRRIGATION CROWN FLOOD FLOOD (TARO) OTHER – Please describe in the space provided for comments (Column I and/or below the table). H. IRRIGATION PRACTICE Enter one of the following: IRRIGATE TO FIELD CAPACITY A FIXED DEPTH PER IRRIGATION

APPLY A FIXED DEPTH PER IRRIGATION DEFICIT IRRIGATION OTHER – Please describe in the space provided for comments (Column I and/or below the table).

13. TABLE 3: ALTERNATIVES ANALYSIS

You should address every alternative and explain why each alternative is or is not available for your proposed potable and non-potable water needs. Other alternatives (last row of Table 3), may include stormwater reclamation, rainwater catchment, or other alternatives not already listed above.

Surface water is defined in §174C-3, HRS as: ... both contained surface water-that is, water upon the surface of the earth in bounds created naturally or artificially including, but not limited to, streams, other watercourses, lakes, reservoirs, and coastal waters subject to state jurisdiction-and diffused surface water-that is, water occurring upon the surface of the ground other than in contained waterbodies. Water from natural springs is surface water when it exits from the spring onto the earth's surface.

For **Conservation Measures**, please describe any conservation measures that will be used to ensure that your water use is or will be efficient. Conservation measures may include, but are not limited to, water reuse or recycling systems, monitoring the water distribution system for pressure drops that are indicative of leaks or line breaks, or use of drought-tolerant and xeriscape landscape plants.

14. PUBLIC INTEREST

Explain in the space provided or on a separate sheet why the proposed new use(s) on your application are consistent with the public interest.

15. INTERFERENCE WITH THE RIGHTS OF THE DEPARTMENT OF HAWAIIAN HOME LANDS

Explain in the space provided or on a separate sheet how the proposed new use(s) of water will not interfere with the rights of the Department of Hawaiian Home Lands, as provided in section 221 of the Hawaiian Homes Commission Act. To inquire about potential interference, you may contact the Department of Hawaiian Home Lands main line at 620-9500, or the DHHL Planning Office at 620-9480. You may also visit their website at dhhl.hawaii.gov, where you can review DHHL's Island Plans, Regional Plans, and their Water Policy Plan.

The State Water Code in §174C-101(a), HRS [Native Hawaiian water rights], states: Provisions of this chapter shall not be construed to amend or modify rights or entitlements to water as provided for by the Hawaiian Homes Commission Act, 1920, as amended, and by chapters 167 and 168, relating to the Molokai irrigation system. Decisions of the commission on water resource management relating to the planning for, regulation, management, and conservation of water resources in the State shall, to the extent applicable and consistent with other legal requirements and authority, incorporate and protect adequate reserves of water for current and foreseeable development and use of Hawaiian home lands as set forth in section 221 of the Hawaiian Homes Commission Act.

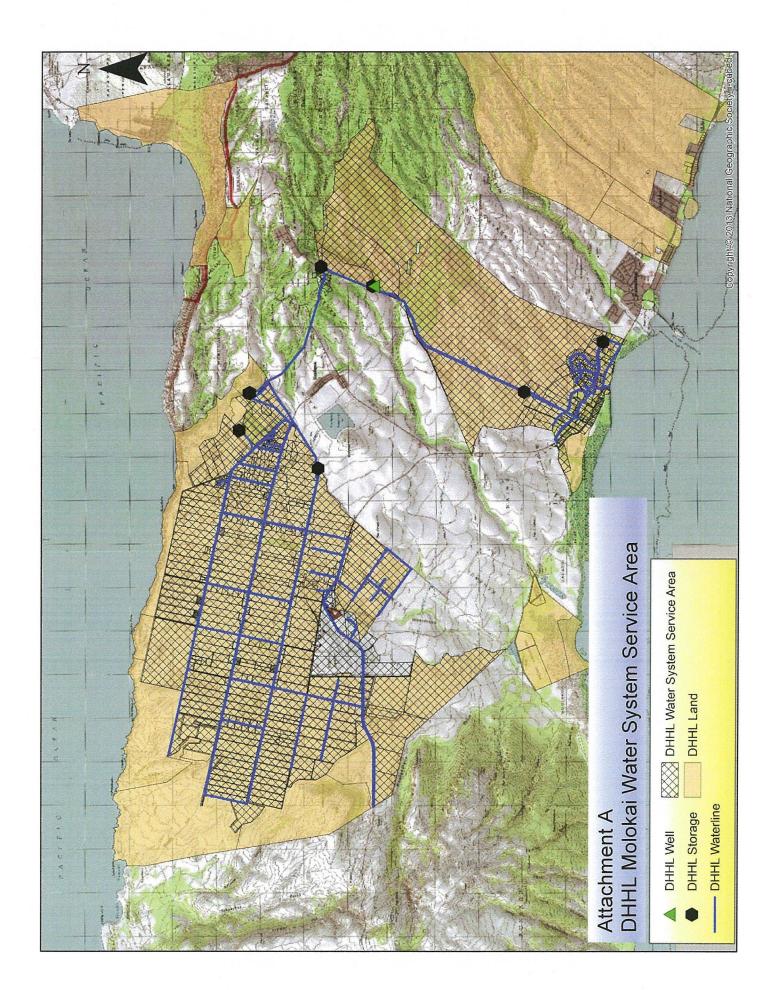
16. INTERFERENCE WITH ANY EXISTING LEGAL USES

Explain in the space provided or on a separate sheet how the proposed new use(s) of water will not interfere with any other existing legal use(s) of water.

17. PUBLIC WATER SYSTEM INFORMATION

Check the appropriate box or boxes relating to your existing or proposed new water system.

 CHAPTER 343 If an Environmental Assessment was completed, fill in the dates of publication and acceptance. For additional information about the proposed uses checkboxes, refer to http://luc.state.hi.us/docs/hrs_343.pdf



Attachment B. Attachment to Water Use Permit Application (WUPA) to modify WUP 267 Draft September 17, 2020

4. A. SUSTAINABLE YIELD FOR ITEM 4

The current Sustainable Yield (SY) for the Kualapu'u Aquifer System Area is currently 5.0 million gallons per day (mgd), set when the Commission on Water Resource Management (CWRM) adopted the Water Resources Protection Plan 2019 Update (WRPP) on July 16, 2019. That document left the Kualapu'u Aquifer System Area SY at the same amount as in the 2008 WRPP. This was explained by CWRM in part by footnote 17 to Table F-10 of Appendix F of the 2019 Update:

The Previously Adopted SY (2007) for the Kualapuu Aquifer System Area dates to a 1996 recalculation of sustainable yield based on a revised recharge number and modified RAM calculation (see comment 5 above). Based on (1) current ground water demands within the system, (2) the fact that the 5 MGD falls within the predicted range of sustainable yields for the aquifer system, (3) the presence of a deep monitor well within the system that will allow for long-term monitoring of the transition zone, and (4) the existence of ground water models for the system, CWRM elected to maintain the sustainable yield at 5 MGD.

In a previous Public Hearing Draft Submittal dates January 28, 1998 for the DHHL September 13, 1996 WUPA for these same sources, CWRM staff noted:

This is the maximum average rate that ground water can be withdrawn from the aquifer system without impairing the utility or quality of the aquifer system as a whole. However, this is water availability on a regional aquifer-wide scale as opposed to a localized well infrastructure scale.

The current SY of 5.0 mgd was chosen by CWRM staff and adopted by that Commission itself as a number at the bottom of a range of 5-8 mgd which is noted as being the SY Range 2019 in the Table F-10 of Appendix F of the 2019 Update. According to footnote 3 of that table and the 2019 SY Range column, "The bounds of the sustainable yield range were set based on the minimum and maximum estimates resulting from the comparison between the green columns: corrected RAM 2008, RAM + Updated best available Information, and RAM 2 + Updated best available Information."

The upper limit of 8 mgd appears in Tale F-10 in the column labeled "RAM + Updated Information", which itself has a footnote 2. Footnote 2 states that the numbers are "RAM or RAM 2 methodology using updated best information available for recharge estimates. In cases where multiple valid studies were published ranges of SY are shown." Attachment to DHHL WUPA Kualapu`u Molokai October 11, 2020 Page 2 of 18

We also note that the reference in Table F-10 for Molokai is a United States Geological Survey (USGS) publication from 1997 (Shade, P.J., 1997, Water budget for the Island of Molokai, Hawai'i: U.S. Geologic Survey Water-Resources Investigations Report 97-4155, 20pp.). That study estimated a recharge rate of 11 mgd, which would result in a calculated SY of 4.8125 mgd using the Robust Analytical Model (RAM) equation.

The basis for an upper limit of 8 in the range of SY for Kualapu`u is based on the lesser known 2008 Department of Health Source Water Assessment Program (SWAP) study using a recharge of 14 mgd. This results in a SY of 7.6, and CWRM chooses to round SY to nearest whole number, or 8 mgd.

6. TOTAL QUANTITY OF WATER REQUESTED. DHHL is requesting 0.595 million gallons per day (mgd), the amount of water it can reliably pump and deliver from its two wells. This accounts for a portion but not all of our near-term needs, as described further below. As of June 30, 2020, there are 2,089 qualified beneficiaries on the Molokai waiting lists (816 for residential, 1,069 for agricultural, and 204 for pastoral lots). Expressed as a percentage of SY, DHHL is seeking to increase its current allowed rate of using 7.34% by 4.56% to 11.9% (see 4, above).

7. PROPOSED USE(S) As they fall into the GWUPA-N (January 28, 2016) form "use" categories, DHHL proposed uses could be characterized as Agriculture, Domestic, Industrial, and Municipal, or alternately, simply Municipal (as the wells are the source for Public Water System (PWS) 230. Here, DHHL is seeking to have this well permitted as a municipal well, but with the amount allocated for municipal use based on the additional information provided in this application.

DHHL also makes the following observations for the record:

- The categories military, agriculture and industrial given in the instructions of FORM GWUPA-N (January 28, 2016) (page 6) are not defined by the state Water Code (HRS 174C-3).
- The category "municipal" is defined in the application identically to its definition in the code and in rule (e.g. HAR 13–171–2). However, municipal is not a category of use, as municipal systems can deliver water for multiple uses.
- The category "domestic" is defined in the application identically to its definition in the code and in rule (e.g. HAR 13–171–2). However, the subcategories offered in the form may contradict these definitions. For example, water used in office buildings does not clearly fall within the definition of domestic which "means any use of water for individual personal needs *and* for *household* purposes such as drinking, bathing, heating, cooking, noncommercial gardening, and sanitation" (emphasis added).

We note the use categories may provide CWRM some basis to determine whether actual use rates or proposed duties are efficient and comparable to other uses. However, it does not

Attachment to DHHL WUPA Kualapu`u Molokai October 11, 2020 Page 3 of 18

provide a basis for determination if the proposed uses fall within protected Public Trust use categories of water. DHHL notes here for the record there should not be conflation of the domestic category on the form with the protected Public Trust domestic uses as identified by Hawai`i courts (*see* Kaua'i Springs, 130 Haw. 407, 312 P.3d 283), as CWRM considers this and other applications for water.

DHHL also notes here for the record that DHHL reservations and uses are Public Trust uses of water. CWRM must recognize that in the Wai'ola case - which is the basis of key Hawai'i Supreme Court findings regarding DHHL reservation – the only issue presented to the Court was whether or not DHHL water *reservations* might have been harmed by the CWRM decision, which is why the court referred only to reservations.

However, the Water Code itself recognizes the Public Trust purpose of DHHL reservations and uses. For instance, all Water Use Permits issued in Water Management Areas – such as this one – are subject to the rights of DHHL (HRS 174C-49(a)(7). Also, HRS 174C-101(a) protects reservations of water "for current and foreseeable development and use" (emphasis added) of water by DHHL, consistent with Section 221 of the HHCA. Thus, current and foreseeable uses are part of the reservation, and it is clear that DHHL uses, not only reservations are also a protected Public Trust purpose.

This is important because if CWRM staff only acknowledges that reservations for DHHL are Public Trust uses, the implication is that once water is delivered, protection for DHHL water use would evaporate and be equivalent to private commercial uses of water. Absent such a recognition, it would be as if the CWRM immediately passed new Interim Instream Flow Standards for all streams but did nothing to implement them once passed, including failing to stop new actual diversions. The actual uses of water by DHHL and its beneficiaries are required to have the full protections of being a Public Trust use of water.

Item 11 (Table 1). Item 11 of the WUPA asks for data regarding the proposed new or modified uses sought by the applicant. It seeks information allowing the CWRM and its staff to assess two broad areas of concern:

- The consistency of any proposed land uses requiring water with existing State Land Use District classifications, County Zoning, and Coastal Zone Management Act requirements (e.g. Special Management Area Permits); and
- The efficiency of the proposed uses and justification for the quantity sought.

This section of the attachment to our WUPA consequently describes:

- Previously permitted uses under WUP 267;
- Proposed modified uses, including the proportion of non-potable uses and Public Trust uses;

Attachment to DHHL WUPA Kualapu`u Molokai October 11, 2020 Page 4 of 18

- The consistency of uses with applicable regulations; and
- The efficiency of the current and future uses for which water is sought.

Each of these four points is addressed in turn immediately, below.

Previously permitted uses under WUP 267

The current WUP held by DHHL (WUP 267), which we seek to modify here, was approved by CWRM on September 15, 1993. It was based on an application submitted dated July 2, 1993. According to the WUP 267 itself, transmitted to DHHL by letter dated March 19, 1996, the permitted amount was for "0.367 mgd (based on 358 domestic service connections and agriculture use)". The application itself had requested .5 mgd for "350 individual customers including Molokai Airport."

The staff submittal which the CWRM considered when granting WUP 267 noted the following:¹

According to a summary of DHHL's existing and foreseeable future water needs provided in a July 2, 1993 letter to the Commission (see Attachment C), existing withdrawals from DHHL Wells 1 & 2 for municipal use and for domestic consumption via 358 service connections are estimated at about 250,000 gpd.² However, the reports of actual monthly water usage submitted by the applicant indicate that the 12-month moving average withdrawal from the two sources is about 367,000 gpd.

In contrast, in Attachment C to that staff submittal, DHHL notes that "It currently has 306 homestead customers and 52 non-homestead customers, including the airport and high school." This does add up to 358 service connections, but not "358 domestic service connections," which imply household uses and demands (see also Item 7 response regarding the definitions of domestic uses).

In addition, the letter included as Attachment C to the staff submittal goes on to note "This same system serves the Moloka`i Airport, Moloka`i Intermediate and High School, Moloka`i Electric, the county fire department, and industrial needs, which currently consume an average 35,000 g[p]d."

The September 15, 1993 staff submittal indicated that there was a use of 35,000 gpd for 52 non homestead customers (an average meter use of approximately 675 gpd). The DHHL has not been able to locate records for actual usage data from that time period. The 35,000 gpd amount seems a significant underestimation, as the 61 commercial meters now on the system

¹ "Applications for Water Use Permits. Kualapuu Ground Water Management Area, Molokai" Staff submittal for agenda item 9, Commission on Water Resource Management meeting of September 5, 1993, on file with CWRM. 2 Gallons per day

Attachment to DHHL WUPA Kualapu`u Molokai October 11, 2020 Page 5 of 18

used an average of approximately 146,000 gpd in 2019. DHHL believes it is likely that the commercial uses were higher in 1992 and the agricultural uses lower than indicated in the staff submittal. In asdition, the 1993 staff submittal did not indicate if any of the agricultural uses were homestead uses, as opposed to commercial agricultural uses.

Based on the forgoing and in the absence of other records to the contrary, it appears the CWRM voted on September 15, 1993, to grant the following water uses summarized in Table DHHL-1, below.

Existing uses	Proposed Duty	Estimated demand (1992) (gpd)
306 homestead service connections	600 gpd/unit	183,6004
52 non-homestead customers	-	35,000 ⁵
Agricultural use	-	148,400 ⁶
TOTAL PERMITTED AMOUNT		367,000

Table DHHL-1. Water allocations, WUP 267³

Proposed Modified Uses

At a high level, DHHL seeks here to modify WUPA 267 to authorize the pumping of .595 mgd primarily for existing customers, and to add new homesteads as well (the latter being a Public Trust use of water). More specifically DHHL seeks water:

- 1. For 539 currently existing residential homestead service connections (a Public Trust use of water);
- 2. For 26 currently existing homestead agricultural service connections (a Public Trust use of water);

³ According to the CWRM minutes a representative of the Department of Hawaiian Home Lands "stated that the existing amount is acceptable but they would eventually have to come back to the Commission to request additional irrigation and potable water for future developments."

⁴ The staff submittal for September 15, 1993 noted "It currently has 306 homestead customers and 52 non-homestead customers, including the airport and high school."

⁵ Attachment C to the staff submittal of September 15, 1993 stated "This same system serves the Moloka`i Airport, Moloka`i Intermediate and High School, Moloka`i Electric, the county fire department, and industrial needs, which currently consume an average 35,000 g[p]d."

⁶ Calculated by the remainder after water for other customers is subtracted from the total allocation.

Attachment to DHHL WUPA Kualapu`u Molokai October 11, 2020 Page 6 of 18

- For the existing use by the County of Maui, which in turn delivers it to currently existing domestic and possibly other customers at Kala`e in the amount of 22,000 gpd on average;⁷
- 4. *For five (5) currently existing commercial agricultural meters* (a private, commercial use of water); and
- 5. For currently existing various non-homestead uses of water including the Moloka'i Airport, Moloka'i Intermediate and High School, Moloka'i Electric, the county fire department, churches, civic organizations, small businesses, DHHL and other state facilities etc. (which are beneficial "commercial" use of water under Hawai'i water law).
- For at least 171 new homestead residential service connections for lots at Ho'olehua (13), Nā`iwa (58), and Kalama`ula Mauka (100) (a Public Trust use of water);
- 7. For new homestead residential service connections meters to be made available for subdivided homestead lots (a Public Trust use of water).

To determine the amount of existing water use and its relationship to CWRM WUPA use categories, DHHL identified the relationship between existing customer categories in the DHHL utility billing system and the WUPA categories. This is presented in table DHHL-2.

⁷ Because DHHL does not have full information on the nature of Maui County's customers or their usage rates, we do not assert here that the uses are a Public Trust use of water. We are not however asserting their uses are a private, commercial use of water and would welcome comment from Maui County on this matter.

DHHL Billing Usage Code	DHHL Usage Category	Meter size (in	2019 # of meters	Purpose / water use category (CWRM
(Utility Star)	category	inches)	meters	WUPA) ⁸
R301	Residential	5/8	530	DOM
R302	Residential	2	0	DOM
R303	Residential	1	9	DOM
WAG1M	Homestead Ag	5/8	22	AGRICULTURE
WAG2M	Homestead Ag	3/4	0	AGRICULTURE
WAG3M	Homestead Ag	1	4	AGRICULTURE
CAG3	Commercial Ag	1	5	AGRICULTURE
W310	Commercial	5/8	29	COMM ⁹
W312	Commercial	1	3	COMM ¹⁰
W313	Commercial	1 ½	4	COMM ¹¹
W314	Commercial	2	11	COMM ¹²
W315	Commercial	3	1	COMM ¹³
W316	Commercial	4	2	COMM ¹⁴
W318	Commercial	8	1	COMM ¹⁵
W319	Commercial	Low flow	2	COMM ¹⁶
W320	Fire Rate		1	INDFP (Airport)
W365	N/a		8	DHHL

Table DHHL-2.	Crosswalk between	PWS 230 Account Structure &	WUPA Use Categories
	el obolitant bettieen		

Based on the analysis in Table DHHL-2 and the information from our 2019 uses as reported in our billing software for customers, DHHL identified the following existing and future water needs.

⁸ All DHHL Uses are also MUNST – Municipal, State; however, that "Usage Code" is a manner of delivery rather than a use.

⁹ Veteran's Cemetery, State Agencies, Churches, Credit Union, Post Office, FAA, Hikiola Coop, Maui Electric Company, Sandwich Isles Communications, University of Hawai`i, Molokai Humane Society, Molokai Homestead Livestock Association., Kalaniana'ole Hall

¹⁰ Akea Farms, Church, US Department of Agriculture Plant Material Center

¹¹ Ho'olehua Fire Station, Molokai Baptist Church, Department of Education (Athletic Field)

¹² Airport, Kulana 'Oiwi, Church, Kualapu'u Charter School, Island Utility Services (Molokai Ranch)

¹³ R.W. Meyer Ltd.

¹⁴ Department of Education, Molokai Slaughterhouse

¹⁵ County of Maui, Water Supply

¹⁶ R.W. Meyer Ltd., Department of Education

Attachment to DHHL WUPA Kualapu`u Molokai October 11, 2020 Page 8 of 18

Proposed uses	Quantity	Water System Standard (WSS)	Demand based on WSS	2019 average gpd (rounded) ¹⁷	2020 requested amount
Homestead residential service connections	539	600 gpd/unit	329,400	249,000	249,000
Homestead agricultural service connections	26 meters serving approximately 315.5 acres	5000 gad ¹⁸	1,577,500	39,186	40,000
2 commercial agricultural (farming) service connections	2 meters serving 30 acres	5000 gad	150,000	12,243	12,400
3 commercial agricultural (livestock) service connections	3 meters serving 2,506 acres	n/a			
New, committed service connections (Kalama`ula mauka, Nā'iwa, Ho`olehua)	171	600 gpd/unit	102,600	-	102,600
Maui County delivered water	1 meter		21,000	21,000	21,000
Other commercial connections	61 meters	various	-	146,000	146,000
Sub-dividable homestead lots	40 ¹⁹	600 gpd/unit	24,000	-	24,000
TOTALS			2,028,700	524,429	595,000

Table DHHL-3. Requested Water Allocations, 2020 WUPA

Depending on how CWRM chooses to authorize the permit that responds to this WUPA, there are two alternate ways to characterize our proposed request:

1. DHHL seeks an additional 228,000 gpd beyond its permitted 367,000 gpd for additional homestead lots, which includes 171 new, committed service connections for Kalama`ula mauka, Nā`iwa, and Ho`olehua and up to 210 service connections for

¹⁷ Based on data from the DHHL Utility Star system

¹⁸ Gallons per acre per day

¹⁹ Molokai Island Plan (<u>https://dhhl.hawaii.gov/wp-content/uploads/2012/05/Island_Plan_Molokai_2005.pdf</u>), which is still in effect, authorized the subdivision of specific lands in Ho`olehua that could potentially yield 544 agriculture homesteads (p. ES-3).

Attachment to DHHL WUPA Kualapu`u Molokai October 11, 2020 Page 9 of 18

lots that can be created through subdivision, out of the maximum 544 homesteads that could be created through subdivision under the 2005 Molokai Island Plan; or

2. DHHL seeks an allocation of 436,600 gpd for recognized Public Trust uses of water, and an additional 158,400 gpd for non-Public Trust, reasonable beneficial uses of water.

The agricultural uses of water (Homestead service agricultural connections and the five commercial agricultural service connections) require only non-potable water, for a total of 52,400 gad. The remaining uses require potable water.

Finally, we note that it has been the practice of the three major water providers in central Molokai (Maui DWS, the relevant subsidiaries of Molokai Ranch, and DHHL) to provide water to each other when one water system has become inoperable due to pump failure or other reasons. To the extent that such emergency provision of water must be authorized by CWRM, DHHL seeks such authorization in this WUPA.

Land Use Consistency for Modified Proposed Uses

To the extent the WUPA form seeks information to determine if existing and proposed uses are consistent with land use controls, we note that the HHCA holds jurisdiction for determining the uses of its lands under its control, and does so under its own planning system. Hence, the requested information under columns C, D, E, and F are not applicable to DHHL. The inapplicability of State Land Use Commission and County zoning to DHHL lands has been addressed in Attorney General's Opinions, most recently on November 13, 2019. While based on numerous provisions of the HHCA and legislative history, two provisions are particularly relevant.

Section 204 of the Hawaiian Homes Commission Act of 1920 provides:

"...all available lands shall immediately assume the status of Hawaiian home lands and be under the control of the department to be used and disposed of in accordance with the provisions of this title..."

Section 206 provides:

"The powers and duties of the governor and the board of land and natural resources, in respect to lands of the State, shall not extend to lands having the status of Hawaiian home lands, except as specifically provided in this title."

Based on these provisions and other law, the request for information under columns C, D, E, and F are not applicable to DHHL.

Attachment to DHHL WUPA Kualapu`u Molokai October 11, 2020 Page 10 of 18

12. TABLE 2: IRRIGATION INFORMATION

While DHHL is the title holder of almost all of the land to which irrigation water is provided, it is not the operator or lessee and has no control of the crops or livestock choices made by lessees. We note that Table DHHL-3 above shows that the actual 2019 irrigation use is minimal, and below what County Water System Standards would allow.

13. TABLE 3: ALTERNATIVES ANALYSIS

DHHL's responses to this item are as follows, which support that DHHL's request in this WUPA cannot be practicably served by alternative sources at this time.

Municipal sources, for potable and non-potable use: There are two other "municipal" sources of water in close proximity to the two DHHL wells, owned by the County and Molokai Ranch and its subsidiaries. They are not meaningfully "alternate" sources when looking at the sustainability of the Kualapu`u Aquifer due to their proximity to each other.

Wastewater reuse for potable and non-potable use. The only major, non distributed source of wastewater in any proximity to the DHHL lands is the Kaunakakai Wastewater Reclamation Facility. It is owned by the County of Maui and was constructed in 1969 with a design capacity of 0.086 mgd. In 1984, the WWRF's design capacity was increased to 0.3 mgd. The WWRF provides secondary treatment of sewage and features rotating biological contractors, secondary clarifier, effluent filters, and chlorinators. Currently 0.289 mgd or 96% of the WWRF's design capacity of 0.3 mgd has been allocated. Reclaimed water from the Kaunakakai WWRF is used for irrigation purposes with the excess disposed of by injection wells.²⁰

There is no infrastructure DHHL is aware of to treat this effluent for potable use or to transport it for nonpotable use to areas where it could be a practicable alternative to current sources.

Ditch System and Surface Water Alternatives, for potable and non-potable use. The Molokai Irrigation System (MIS), owned and controlled by the state Department of Agriculture, is a theoretically available alternate source of water for non-potable uses in the DHHL service area. The MIS currently provides water to some homesteaders but not all who desire service. As it pertains to this application, 52,000 gpd of water is used for irrigation purposes. Not all of the areas that are currently serviced by this system can serviced by the MIS, however.

Desalinization, for potable and non-potable use. Desalinization is not a practicable alternative due to energy costs on Molokai, the volume of water required, uncertain effects of disposal of

²⁰ https://www.mauicounty.gov/DocumentCenter/View/83252/Maui-Infrastructure-Assessment-Updatecondensed?bidId=

Attachment to DHHL WUPA Kualapu`u Molokai October 11, 2020 Page 11 of 18

residual brine, and unavailable capital. Requiring DHHL to develop a costly source of water to serve its Public Trust uses while CWRM continues to allow Molokai Ranch to serve non-Public Trust uses of water with less expensive groundwater (and without a valid permit) would be inconsistent with CWRM constitutional and statutory duties and case law.

Conservation Measures, for potable and non-potable use. DHHL's 2019 Performance audit of PW 230, our Non-revenue water as a percentage of volume of water supplied was 9%. Planned improvements to the Ho'olehua Water System will increase water conservation by reducing existing leakage and loss across the system (reduction of "non-revenue water"). These planned improvements were addressed in detail in a Final Environmental Assessment published in the Environmental Notice on June 8, 2016.²¹

14. PUBLIC INTEREST

As explained above, DHHL seeks an allocation of 436,600 gad for recognized Public Trust uses of water, and an additional 158,400 gad for non-Public Trust, beneficial uses of water. It further seeks CWRM to consider that CWRM's own documents and other peer reviewed scientific information suggests that the full SY should not be allocated in order to provide for "the protection of traditional and customary Hawaiian rights, the protection and procreation of fish and wildlife, the maintenance of proper ecological balance and scenic beauty, and the preservation and enhancement of waters of the State for municipal uses, public recreation, public water supply, agriculture, and navigation. Such objectives are declared to be in the public interest."

DHHL further notes for the record that the analysis required by the CWRM to determine whether a permit should be granted, granted in part, or denied, must go well beyond the excerpt of the purpose section of the Code contained in this question. Extensive case law has explained the duties of CWRM and how this broad language must be implemented. Below we detail one key consideration, how any proposed use may impact traditional and customary practices.

Traditional and customary practices Legal background that guided DHHL research

DHHL conducted research in order to determine how its increased uses may impact traditional and customary practices. Before we summarize our research detailed in Attachment C and its exhibits, we explain here how we determined our research purposes based on existing legal requirements.

²¹ http://oeqc2.doh.hawaii.gov/EA_EIS_Library/2016-06-08-MO-FEA-Hoolehua-Water-System.pdf#search= Hoolehua

Attachment to DHHL WUPA Kualapu`u Molokai October 11, 2020 Page 12 of 18

Section §174C-49(a) of the State Water Code stipulates that to obtain a WUPA an applicant shall establish that the proposed use of water will not "interfere with any existing legal use of water" and "is consistent with the public interest."

Earlier in the Code, the public interest is defined in part as follows (HRS §174C-2(c)):

The state water code shall be liberally interpreted to obtain maximum beneficial use of the waters of the State for purposes such as domestic uses, aquaculture uses, irrigation and other agricultural uses, power development, and commercial and industrial uses. However, adequate provision shall be made for the protection of traditional and customary Hawaiian rights, the protection and procreation of fish and wildlife, the maintenance of proper ecological balance and scenic beauty, and the preservation and enhancement of waters of the State for municipal uses, public recreation, public water supply, agriculture, and navigation. Such objectives are declared to be in the public interest.

This broad purpose language in conjunction with other Code provisions has been subject to further interpretation by appellate Hawai`i courts. Two critical cases specifically dealing with groundwater withdrawal on Molokai (Waiola o Molokai, 103 Hawai'i 401, 83 P.3d 664 (2004) and Kukui Molokai, 116 Hawai'i 481, 174 P.3d 320 (2007)) helped develop this case law. Among other matters these cases clarified what the protected Public Trust uses of water were in Hawai`i, and that non-Public Trust users of water held a burden to show that their proposed uses did not harm Public Trust uses.

Building on those and other cases, clear guidance to agencies on how to evaluate requests was provided in the Kaua`i Springs case (130 Haw. 407, 312 P.3d 283). The Hawai`i Supreme Court stated (notes and citations omitted):

To assist agencies in the application of the public trust doctrine, we distill from our prior cases the following principles:

a. The agency's duty and authority is to maintain the purity and flow of our waters for future generations and to assure that the waters of our land are put to reasonable and beneficial use.

b. The agency must determine whether the proposed use is consistent with the trust purposes:

i. the maintenance of waters in their natural state;

ii. the protection of domestic water use;

iii. the protection of water in the exercise of Native Hawaiian and traditional and customary rights; and

iv. the reservation of water enumerated by the State Water Code.

c. The agency is to apply a presumption in favor of public use, access, enjoyment, and resource protection.

d. The agency should evaluate each proposal for use on a case-by-case basis, recognizing that there can be no vested rights in the use of public water.

e. If the requested use is private or commercial, the agency should apply a high level of scrutiny.

f. The agency should evaluate the proposed use under a "reasonable and beneficial use" standard, which requires examination of the proposed use in relation to other public and private uses.

Applicants have the burden to justify the proposed water use in light of the trust purposes.

a. Permit applicants must demonstrate their actual needs and the propriety of draining water from public streams to satisfy those needs.

b. The applicant must demonstrate the absence of a practicable alternative water source.

c. If there is a reasonable allegation of harm to public trust purposes, then the applicant must demonstrate that there is no harm in fact or that the requested use is nevertheless reasonable and beneficial.

d. If the impact is found to be reasonable and beneficial, the applicant must implement reasonable measures to mitigate the cumulative impact of existing and proposed diversions on trust purposes, if the proposed use is to be approved.

Thus, following the principles in Kaua`i Springs, applicants for a permit from CWRM must:

- Determine the degree to which the proposed uses are either:
 - o consistent with trust purposes, or
 - private commercial uses
- If any proposed uses are inconsistent with trust purposes, determine for the proposed uses:
 - If they are reasonable and beneficial;
 - What their actual needs are;
 - If there is absence of practicable alternatives; and
 - \circ $\;$ If there is a reasonable allegation of harm to public trust purposes.
- If any proposed uses are inconsistent with trust purposes and they are reasonable and beneficial, the applicant must implement reasonable measures to mitigate the cumulative impact of existing and proposed diversions on trust purposes, if the proposed use is to be approved.

Attachment to DHHL WUPA Kualapu`u Molokai October 11, 2020 Page 14 of 18

The courts have not established any priority among the four Public Trust uses of water. However, it is notable that two are in situ, non-consumptive uses (waters in their natural state and water used in the exercise of Native Hawaiian and traditional and customary rights).

To further guide how applicants requesting consumptive uses of water should evaluate such impacts, the Hawai'i Supreme Court's guidance in Ka Pa'akai o Ka 'Āina (94 Hawai'i 31, 7 P.3d. 1068 (2000) is applicable, which was an appeal of a decision by the state Land Use Commission (LUC). There the court noted:

We therefore provide this analytical framework in an effort to effectuate the State's obligation to protect native Hawaiian customary and traditional practices while reasonably accommodating competing private interests: In order to fulfill its duty to preserve and protect customary and traditional native Hawaiian rights to the extent feasible, the LUC, in its review of a petition for reclassification of district boundaries, must -- at a minimum -- make specific findings and conclusions as to the following:

- the identity and scope of "valued cultural, historical, or natural resources" in the petition area, including the extent to which traditional and customary native Hawaiian rights are exercised in the petition area;
- (2) the extent to which those resources -- including traditional and customary native Hawaiian rights -- will be affected or impaired by the proposed action; and
- (3) the feasible action, if any, to be taken by the LUC to reasonably protect native Hawaiian rights if they are found to exist. "

The guidance to the LUC there is applicable to and binding against other agencies, including DHHL and CWRM.

Based on this legal background, the research undertaken by DHHL was designed to fulfill the following purposes:

- 1. Review the peer reviewed 2020 USGS study of Molokai groundwater that identified the coastal areas that may experience reduced groundwater flow as result of increased DHHL pumping; and
- 2. Within that area, determine:
 - a. The identity and scope of any valued cultural, historical, or natural, groundwater dependent resources;
 - b. The extent to which traditional and customary native Hawaiian rights have been, are, or are planned to be exercised in relation to those resources;
 - c. The extent to which there may be a reasonable allegation of harm by practitioners to those resources and practices, resulting from the proposed pumping; and

Attachment to DHHL WUPA Kualapu`u Molokai October 11, 2020 Page 15 of 18

3. If the proposed DHHL uses are determined by the CWRM to be either consistent with Public Trust purposes and/or reasonable and beneficial, help identify reasonable measures to mitigate the cumulative impact of existing and proposed pumping on those groundwater dependent resources and practices.

Traditional and customary practices research summary

The research conducted is summarized in the attached memorandum, "Investigation of Cultural Impacts for the Molokai Water Use Permit Application", which itself has four exhibits. Trusted interviewers discussed traditional and customary resources and practices with selected practitioners in the Kalama`ula area.

Long term, multi-generational Kalama`ula homesteaders are aware without prompting of the importance of mauka-makai freshwater flows to the health of their nearshore environment, and this information comes from generational experience. While the practice of subsistence fishing and harvesting of limu and shellfish is slowly diminishing, it still plays an important role in the society, culture and identity of homesteaders in Kalama`ula, and there is a desire to see it revived and perpetuated. Proper care and protection of these resources is important to the homesteaders interviewed, and to their `ohana.

As the community gradually loses its cherished kupuna, like Aunty Kauila Reyes, there is concern that the values and traditional practices and ecological knowledge that sustained Kalama'ula for generations may not be perpetuated.

Just as is the case with scientists studying groundwater dependent ecosystems elsewhere in the world, homesteaders knew that ongoing groundwater flow was critical to the perpetuation of these valued resources, but they also knew that other physical, biological, and social impacts were also affecting them. From the interview with Penny Martin:

Native mullet – need freshwater seeps. Used to be way more fresh water. She has come to understand that kiawe trees and mangrove both use up lots of fresh water. She thinks there are less opae (shrimp) because there is less fresh water. She thinks there are less `āholehole (Hawaiian flagtail) for the same reason.

The known experience of this complexity did not lead interviewees to merely conclude the issues should simply be studied more, however. Rather, interviewees sought to take other actions to address the impacts of these withdrawals, by directly managing other harmful impacts on these areas. Again, Ms. Martin:

She recommends removing the mangrove (shrub/small tree that grows in coastal saline or brackish water) and kiawe (Prosopsis pallida) to counteract less fresh water reaching the shoreline.

Attachment to DHHL WUPA Kualapu`u Molokai October 11, 2020 Page 16 of 18

Cattle up mauka – deer – eating the vegetation. [Soil is] running off. She said we must consider how to control erosion before removing the mangrove, which was planted to control erosion. Mangrove helps control silt run off but it takes/uses so much fresh water. She said the key to erosion control is managing mauka rain runoff and therefore proper management of the watershed.

Based on this research, DHHL believes that if this WUPA is issued for the requested amount, permit conditions should include that DHHL shall

- Work to implement community-led efforts to replace invasive species with native species to try to improve the health of the coastal ecosystem;
- Supported and encourage efforts to reduce erosion and restore native vegetation in Kalama'ula's mauka areas; and
- Make available certain Community Use designated areas as outdoor classrooms for schoolchildren, particularly for the perpetuation of traditional and customary groundwater dependent practices and resource management.

These conditions would be consistent with policies in DHHL's Water Policy Plan (http://dhhl.hawaii.gov/wp-content/uploads/2013/09/HHC-Water-Policy-Plan-140722.pdf) which stipulates that DHHL shall "Develop, manage, and steward water in a manner that balances cost, efficiency measures, and Public Trust uses in the short and long term."

in coordination with the traditional ecological knowledge, ingenuity, resourcefulness and cultural grounding of the Kalama'ula homestead community, would serve as a shining example of collaborative natural and cultural resource management and education that could serve to mitigate potential impacts to nearshore resources and protect our most precious island resource, our wai.

15. INTERFERENCE WITH THE RIGHTS OF THE DEPARTMENT OF HAWAIIAN HOME LANDS

The proposed uses of water will be by the Department of Hawaiian Home Lands, the applicant here. As described above, there are "private, commercial uses" of water that are non-Section 221 uses on the DHHL system, such as water used by the Molokai Airport and Molokai High School. To the degree that such uses can be said to interfere with Section 221 uses, DHHL believes they are reasonable and beneficial, and the granting of this permit will allow other new Section 221 uses to begin.

DHHL intends that some of the permitted water, if this WUPA is granted, drawn against the reservation it holds for water from this aquifer. This is detailed immediately below.

Attachment to DHHL WUPA Kualapu`u Molokai October 11, 2020 Page 17 of 18

DHHL's reserved and permitted water in Kualapu'u

DHHL holds both an existing permit for water as well as a reservation made by rule. The latter is codified in HAR §13-171-63 which states:

Department of Hawaiian home lands reservation for Kualapuu, Molokai. The commission hereby reserves 2.905 million gallons per day of ground water from state lands in the Kualapuu aquifer system for use on Hawaiian home lands on Molokai. This amount shall be in excess of the existing uses of water on Hawaiian home lands as of the effective date of this rule. [Eff. June 10, 1995]

Determination of the "existing uses of water *on Hawaiian home lands* as of the effective date of this rule" is challenging, however. Some considerations are:

- DHHL has its average daily pumping rate for June 1995;
- It delivers water to lands that are not "Hawaiian home lands" (e.g. the airport and Molokai High School);
- DHHL has not located delivery records for that date;
- The existing use permit (WUP 267) (approved September 15, 1992) is for .367 mgd;
- WUP 267 specified it is for "0.367 mgd (based on 358 domestic service connections and agriculture use)";

Based on the above it appears that DHHL's rights to water in the aquifer – its permitted amount and its reservation amount – are at a minimum of 2.905 mgd + .367 mgd.

Also based on the above DHHL is here requesting additional water requested beyond our currently permitted amount (0.595 - 0.367 mgd, or 0.228 mgd). As detailed above, currently DHHL delivers a one-year average (based on 2019 numbers) of 158,400 gad of water not used on DHHL lands or water used on DHHL lands for non HHCA 221 purposes. Thus, consistent with the reservation cited above which is solely for water on Hawaiian home lands, we currently are permitted 367,000 gpd "for use on Hawaiian home lands"; our current permit seeks 436,600 gpd "for use on Hawaiian home lands," and therefore the difference (436,600 – 367,000) or **69,600 gpd would be understood by DHHL to be a draw from our reservation for the use of water "on Hawaiian Home Lands**".

16. INTERFERENCE WITH ANY EXISTING LEGAL USES

Currently, the only major existing permit holder with existing legal uses is the County. The USGS model referenced earlier indicates that the uses DHHL seeks here along with the current and anticipated requests of the County will not cause chlorides to exceed EPA secondary standards. Attachment to DHHL WUPA Kualapu`u Molokai October 11, 2020 Page 18 of 18

The other "existing legal uses" are the uses of water in the exercise of traditional and customary practices described in response 14, above and Attachment C and its exhibits.

Molokai Ranch does not have an existing legal use of water from Well 17. As the Hawai`i Supreme Court noted in Kukui on this exact subject, referring to the Ranch's subsidiary Kukui Molokai Inc or KMI: "In light of the foregoing, DHHL is correct that the Commission erred by considering KMI's untimely request for existing uses. Therefore, we vacate the Commission's Decision and Order to the extent that it grants KMI a permit for existing uses. If, on remand, KMI wishes to "revive" these expired uses, it must apply for a permit under HRS § 174C-51 as the uses are now presumed abandoned. See HRS § 174C-50(c)." Kukui Molokai, 116 Hawai'i 481, 174 P.3d 320 (2007).

MEMORANDUM

то:	Andrew Choy, Acting Planning Program Manager
FROM:	Nancy McPherson, Planner
REVIEWED:	Jonathan Likeke Scheuer, Ph.D., Water Policy Consultant
SUBJECT:	Investigation of Cultural Impacts for the Molokai Water Use Permit Application
DATE:	September 15, 2020

Introduction and Purpose the Research

The Department of Hawaiian Home Lands (DHHL) undertook research in support of its Water Use Permit Application (WUPA) that will request a small increase in the volume of water pumped from the Kualapu'u Aquifer on Molokai, Hawai'i. If granted in full, the WUPA would raise DHHL's overall pumping allocation from about 7% to just under 12% of the "Sustainable Yield" of the aquifer as that is determined by the Commission on Water Resource Management (CWRM). However, for CWRM to grant any WUPA request – no matter how small an increase – applicants must affirmatively demonstrate their uses are both in the public interest and will not interfere with existing legal uses of water.

Due to the hydrological connection between pumping of the Kualapu'u aquifer and outflow of fresh water along the southern shoreline of Molokai at Kalama'ula, as evidenced by the results of the USGS Water Model for the Kualapu'u Aquifer¹, DHHL staff and consultants felt it would be highly desirable to prepare this research designed to evaluate potential impacts to native Hawaiian users of the shoreline that could be reasonably alleged to occur due to increased pumping of the aquifer. Molokai is known for the relatively high percentage of people who practice subsistence hunting, fishing and gathering to provide healthy food for their families as well as to supply resources for cultural practices, such as pā'ina for a baby's first birthday.

More specifically, to help meet these two permit application requirements, our research purposes were to:

- 1. Review the peer reviewed 2020 USGS study of Molokai groundwater that identified the coastal area that may experience reduced groundwater flow as result of increased DHHL and other pumping; and
- 2. Within that coastal area, determine:
 - a. The identity and scope of any valued cultural, historical, or natural, groundwater dependent resources;

¹ Oki, D.S., Engott, J.A., and Rotzoll, K., 2020, Numerical simulation of groundwater availability in central Moloka'i, Hawai'i: U.S. Geological Survey Scientific Investigations Report 2019–5150, 95 p., https://doi.org/10.3133/sir20195150.

- b. The extent to which traditional and customary native Hawaiian rights have been, are, or are planned to be exercised in relation to those resources;
- c. The extent to which there may be a reasonable allegation of harm by practitioners to those resources and practices, resulting from the proposed pumping; and
- 3. If the proposed DHHL uses are determined by the CWRM to be either consistent with Public Trust purposes and/or reasonable and beneficial, help identify reasonable measures to mitigate the cumulative impact of existing and proposed pumping on those groundwater dependent resources and practices.

These research purposes were determined by a review of relevant legal guidance including case law. That legal analysis is contained in the other attachments to the WUPA DHHL is submitting.

Methodology - interviewers selected

E. Halealoha Ayau and Nancy M. McPherson conducted the research. After reviewing the USGS study, including discussions of its findings with the authors, Ayau and McPherson conducted interviews with lifelong Kalama'ula homesteaders who, either in the past or currently, used the resources of the Kalama'ula shoreline area for traditional cultural and subsistence purposes. DHHL believed it was necessary the research be conducted by interviewers with long established relationships and high levels of trust with the interviewees. Discussions seeking to identify the and scope of valued cultural, historical, or natural resources mean that interviewees are being asked to share highly valuable and closely held generational knowledge, and it is not realistic to expect that such information would be casually shared with outside interests. See also Exhibit 'A', Statement of Qualifications.

Methodology - interviewees selected

The USGS study previously mentioned notes that decreased coastal flow due to increased pumping of wells in Kualapu'u will affect both the northern and southern coasts of the island. The northern coastal areas affected under all scenarios other than the baseline are nearly all small strips of coastline at the base of high sea cliffs. While used for the exercise of traditional and customary practices, the impacts of pumping are more extensive on the southern coast and coincides with known areas of subsistence activity, including fishponds. This information, along with the skills and relationships of the interviewers, led to the decision to have interviews focused on individuals from the Kalama'ula area on the south shore of Molokai. For proposed pumping scenarios where pumping is significantly increased, especially for non-Public Trust uses of water, a much broader set of interviewees from a larger stretch of the south coast of Molokai would be necessary.

Interview subjects were chosen based on a number of criteria, such as length of time living in Kalama'ula, proximity of residence to the shoreline, knowledge of traditional and customary

practices such as subsistence harvesting of ocean resources and use of shoreline plants, and peer recommendations received from other Kalama'ula homesteaders. See also Exhibit 'B', Ahupua'a Map, and Exhibit 'C', Area of Study.

Methodology - interview questions and structure

For several of the interviews, the interviewers were joined by two shoreline consultants from the firm Planning Consultants Hawai'i LLC, who had been contracted by DHHL to work on another project, a shoreline erosion management plan for homestead communities along the southern shoreline of Molokai. The shoreline interviewers asked additional questions about ecological conditions, shoreline erosion and other changes to the shoreline area that had been noticed over the informants' lifetimes, and other traditional ecological knowledge. There was a prepared list of questions that was loosely used, although informants often followed a train of thoughts and memories that responded to multiple questions in varying sequences. **See Exhibit 'D', Interview Questions.**

Seven Kalama'ula homesteaders were interviewed over four days, November 20-22, 2019 and February 10, 2020. The average length of interview was 90 minutes. Each interviewer took notes, and the notes were merged once transcribed. Often, after receiving a response to a question, interviewers asked follow-up questions for clarification, being careful not to ask leading questions that might influence the results. Once the notes were transcribed and merged, the draft transcription of their interview was emailed to informants for their review, correction and final approval. Transcribed interviews have been retained by DHHL.

Informants were initially asked about their and their 'ohana's connection to the Kalama'ula shoreline, which provided information about historic uses of the shoreline, the way of life in Kalama'ula in the early days, and similar information. Informants shared about having various kinds of knowledge taught to them by their grandparents and parents, particularly about the significance of the springs in the area and the sacredness of the Kapuāiwa Coconut Grove. They also talked about how they and their 'ohana practiced subsistence from the sea, caught various kinds of crab, fish and 'ōpae, gathered various kinds of limu, how abundant the resources were (particularly limu 'ele'ele because of the presence of fresh water), and how resources were shared with those homestead families who couldn't access the resources themselves. Types and traditional uses of plants along the shoreline were discussed. The informants talked about how self-sufficient the homesteaders were, how the 'ohana lived off of their ahupua'a (land and sea), and how everyone practiced mālama, kuleana and aloha 'āina, from the youngest keiki to the kūpuna.

The informants also provided important information about the amount and makai direction of flow of fresh water underneath the area, particularly under Kapuāiwa Coconut Grove, the history of uses and conditions of the various springs, and various mo'olelo and stories about the mo'o wahine that protects the springs. Out of respect, no one walked through the grove – they

either walked along the highway or walked along the shoreline. It was known that all the springs were connected, from 'Olo'olo on down. The most makai spring was always open to the ocean. Homesteaders reported that there were always large volumes of fresh water flowing mauka to makai, and that there were legendary instances of items being dropped into pools up mauka that were later found in the springs by the shoreline, so informants were very aware of the underground links between mauka sources of water and the makai springs, as well as the substantial amounts of water moving underground. One recent event that was shared was an instance where a waterline on the mauka side of the highway was being repaired, and a water pump was dramatically sucked underground by the strength of the flow of water toward the shoreline. The pump was never located.

Findings

Using the shoreline for subsistence was a way of life for most Kalama'ula 'ohana, but has become less so over time partially because the younger generation isn't practicing subsistence as actively and it's easier for homesteaders to go to the store to buy crab and ogo, for example. In addition, the invasion of mangrove and kiawe has made using the shoreline more difficult for Kalama'ula homesteaders over the generations, as it was reported that 50 years ago one could walk along the shoreline from Kalama'ula to the Wharf on a sandy beach. There was a sense from some informants that the mangrove and kiawe might be "sucking up" fresh water and depriving the shoreline ecosystems of fresh water sources that support limu, 'ōpae, crab and fish larvae that use nearshore areas as a nursery. It was reported that both in the springs and in the nearshore waters, the 'ōpae are nowhere near as abundant as they used to be when the informants were children. Others said that there are still 'ōpae, but it's not as easy to find them as it used to be.

Another impact that was reported was sedimentation caused by soil washing down from up mauka, due to soil erosion, that was smothering the reef, creating anaerobic conditions, and possibly obstructing offshore springs. Accelerated shoreline erosion may also be releasing increasing amounts of sediment into the nearshore waters. One informant reported that in his recollection, the shoreline areas were better maintained and cared for by the people in the past. In addition, several informants expressed the opinion that when the wharf road was made solid more than 50 years ago, the area west of the wharf started losing sand and became muddier. One informant said that the shoreline along Kapuāiwa Grove used to be muddy before, and now is hard.

An issue that was commonly reported is that the resources may be diminishing over time because of overharvesting and improper harvesting. Informants reported that nonhomesteaders have been fishing and crabbing extensively on the Kalama'ula shallows, and collecting limu, in ways that are not the ways that the informants were taught to harvest, e.g. traditional practices such as using scissors to harvest and never pulling the roots of the limu off of the substrate, which ensured the long term sustainability and momona (abundance) of the

resource. In addition, the homesteaders never took more than they could eat, and if there was surplus, it was shared, first with the kūpuna who couldn't go out and harvest for themselves anymore. Another sentiment was that the native limu may be being outcompeted by the invasive gorilla ogo, which has been proliferating along the shoreline and taking all the nutrients. It was also reported that the most prolific limu in Kalama'ula was limu 'ele'ele, and that other types, such as manauea, were more easily found in Kamiloloa to the east.

Concern over recreational use of Kapuāiwa Grove and pollution of the springs was expressed. Young people have been going into the grove and partying, and it was felt that this was disrespectful and potentially harmful to the resources. Prior to World War II there was a caretaker's house on stilts out over the water, and a couple lived there (Burke) and watched over the Grove, so there was less pilikia and trespassing. People also respected the Grove as kapu and didn't go inside, which might have served to protect the springs. The homesteaders of Kalama'ula always used the shoreline for family gatherings and parties, but it seems there may have been more supervision of activities in the Grove and more enforcement in the past.

Most of the interviewees recommended removal of invasive species such as mangrove, kiawe, banyan, naupaka and false akulikuli (badis maritima, pickleweed) and replacing them with native shoreline and salt-tolerant species such as 'aki'aki grass, pōhinahina (beach vitex), hinahina (native gray heliotrope), 'Ilima, pōhuehue (beach morning glory), native akulikuli, naio (Myoporum sandwicense), milo, kou, hau, hala and native (not false) kamani. There were cultural, practical and medicinal uses for most of these plants, and even the weed uhaloa was useful as medicine.

The shoreline served as the community's icebox – that's where their food came from. Because of its history and cultural significance, two informants felt strongly that the Grove has an important role to play in educating the schoolchildren and the community. One informant suggested that a good community project would be to start measuring the amount of freshwater flow coming through the springs, along with salinity, to collect the data. There is a fear that the cultural and subsistence knowledge isn't being passed on.

Conclusion

Long term, multi-generational Kalama'ula homesteaders are aware without prompting of the importance of mauka-makai freshwater flows to the health of their nearshore environment, and this information comes from generational experience. While the practice of subsistence fishing and harvesting of limu and shellfish is slowly diminishing, it still plays an important role in the society, culture and identity of homesteaders in Kalama'ula, and there is a desire to see it revived and perpetuated. Proper care and protection of these resources is important to the homesteaders interviewed, and to their 'ohana.

As the community gradually loses its cherished kūpuna, like Aunty Kauila Reyes, there is concern that the values and traditional practices and ecological knowledge that sustained Kalama'ula for generations may not be perpetuated.

Just as is the case with scientists studying groundwater dependent ecosystems elsewhere in the world, homesteaders knew that ongoing groundwater flow was critical to the perpetuation of these valued resources, but they also knew that other physical, biological, and social impacts were affecting these precious things. From the interview with Penny Martin:

Native mullet – need freshwater seeps. Used to be way more fresh water. She has come to understand that kiawe trees and mangrove both use up lots of fresh water. She thinks there are less 'opae (shrimp) because there is less fresh water. She thinks there are less 'aholehole (Hawaiian flagtail) for the same reason.

The known experience of this complexity did not lead interviewees to merely throw up their hands and conclude the issues should simply be studied more, however. Rather, interviewees sought to take other actions to address the impacts of these withdrawals, by directly managing other harmful impacts on these areas. Again, Ms. Martin:

She recommends removing the mangrove (Rhizophora mangle, a shrub/small tree that grows in coastal saline or brackish water) and kiawe (Prosopsis pallida) to counteract less fresh water reaching the shoreline.

Cattle up mauka – deer – eating the vegetation. [Soil is] running off. She said we must consider how to control erosion before removing the mangrove, which was planted to control erosion. Mangrove helps control silt run off but it takes/uses so much fresh water. She said the key to erosion control is managing mauka rain runoff and therefore proper management of the watershed.

Should the WUPA request be approved, programmatic implementation of the applicable values, policies and goals in DHHL's Water Policy Plan, in coordination with the traditional ecological knowledge, ingenuity, resourcefulness and cultural grounding of the Kalama'ula homestead community, would serve as a shining example of collaborative natural and cultural resource management and education that could serve to mitigate potential impacts to nearshore resources and protect our most precious island resource, our wai.

Community-led efforts to replace invasive species with native species to try to improve the health of the coastal ecosystem should be supported by DHHL, as should efforts to use certain Community Use areas as outdoor classrooms for schoolchildren. Efforts to reduce erosion and restore native vegetation in Kalama'ula's mauka areas should be supported and encouraged.

Statement of Interviewer Qualifications, Cultural Impact Assessment Interviews for Molokai WUPA

Edward Halealoha Ayau

- Raised on Molokai in the Hoʻolehua homestead; grounded in traditional cultural knowledge, moʻolelo and ʻōlelo noʻeau, by, among others, his tutu wahine, Kahu Harriet Ahiona Ayau Ne, a highly regarded kumu hula, educator, historian and Paʻa Moʻolelo Nō Molokai Nui a Hina (keeper of Molokai history)
- Trained since early adulthood by Kumu Edward Lavon Huihui Kanahele and Dr. Pualani Kanaka'ole Kanahele in cultural protocols of caring for iwi kūpuna (ancestral bones) and moepū (funerary possessions)
- Successfully repatriated over 6,000 sets of iwi kūpuna and moepū, nationally and internationally, over the past thirty years, in 120 cases
- Bachelor of Science in Business Management with a Minor in Cultural Anthropology; Juris Doctor degree in American Indian Law from University of Colorado School of Law; graduate of Kamehameha Schools
- Director, DLNR-SHPD Burial Sites Program for six years; drafted & promulgated first administrative rules for that program
- Consultant for Bishop Museum, Kamehameha Schools and Office of Hawaiian Affairs in his capacity as a cultural practitioner, researcher, and repatriation expert
- Assisted multiple Native Hawaiian-oriented nonprofits in achieving IRS §501(c)3 taxexempt status, successfully applied for grants focusing on Hawaiian community capacity building, organizing and improvement including cultural and language practice; a project of double-hulled canoe voyaging with traditional navigation, and legal rights advocacy
- DHHL Acting Molokai District Supervisor from 2011 2016; provided services to Hawaiian homestead lessees, supervised operation of the Molokai Public Water System (700 customers) and was responsible for effective management of all DHHL trust resources on Molokai.

<u>Nancy Muir McPherson</u>

- Born in Northern California and raised on O'ahu from the age of ten; grounded in Lakota cultural traditions and language in childhood by her Unci (grandmother); descended from a maternal line of tribal members of the Standing Rock Sioux Tribe (Hunkpapha Lakota), Chief Gall's band; great-grandmother was a tribal historian
- Spent a summer at the Bishop Museum as a student intern assisting the Anthropology Department with the 1973 Statewide Inventory of Historic Resources
- Bachelor of Arts degree in Urban and Regional Planning and Economics; completed all coursework required for the Masters in Urban and Regional Planning at UH-DURP; has practiced as a professional planner in California and Hawai'i for 25 years
- Worked as a research assistant to Professor Luciano Minerbi at UH-DURP for two years studying coastal cultural and natural resources, mo'olelo and historic documentation of North Kohala for a research project funded by OHA. Conducted multiple interviews with Native Hawaiian informants from North Kohala.
- First County of Maui planner to be posted full time on Molokai; spent 6 years living in and providing planning services for the Molokai community; assisted the community in conducting a participatory mapping, oral history and GIS project of known cultural sites in Mana'e, Molokai





KALAMA'ULA HOMESTEADER INTERVIEWS INTERVIEW QUESTIONS

w Location:
wer:

- 1. What is your and your 'ohana's relationship to this place?
 - a. Do you have 'ike you'd like to share of the area's history, mo'olelo or place names?
 - b. Why is the Kalama'ula area, particularly the coastline, important to you?
 - c. How do you use the shoreline, and when?
- 2. Based on your knowledge, what are the primary activities occurring along the shoreline? How many people? What time of day? Where are the users from?
- 3. Are you aware of any existing user conflicts along the shoreline?
- 4. Do you have a special use for any of the plants that grow along the shore?
- 5. Are most of the plants native or non-native?
- 6. How has the vegetation along the shore changed over time (for instance, trees instead of shrubs, or shrubs instead of grasses, or no vegetation at all)?
- 7. What changes have you observed along the entire coastline fronting the homestead area you reside in?

- a. Have the changes been slow and over time or dramatic?
- b. What was the event or cause of the changes?
- 8. In your opinion, what are the three most important challenges or threats to the Kalama'ula shoreline at this time?

SHORELINE EROSION-SPECIFIC QUESTIONS

- 9. What time(s) of year are the waves destructive or erosive?
- 10. In what season have you observed loss of the shoreline? Do you feel that erosion is seasonal?
- 11. Was the erosion gradual over time, or fast such as after a destructive event?
- 12. Does the shoreline regularly change in width in any particular place?
- 13. Have you seen areas where the composition of the shore has changed? For instance, from sand to silt, or silt to pebbles, or sand to rocky?
- 14. What are the three most important challenges or threats that should be addressed by a shoreline erosion management plan?
- 15. Are there any specific actions (improvements and/or management activities) that you would like to see to prevent or mitigate shoreline erosion?
- 16. What actions do you <u>not</u> want to see taken?
- 17. Are there other people/organizations you think we should reach out to?
- 18. What other information could you share, based on your experience, that could be useful to DHHL and the people living in the Kalama'ula homestead area?

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LIDRIE M. K. MANAGATANI (DARMAN HAWADAN HOMES COMPASSION

> WILLIAM J. AILL, JR. DOWNY JOTHI CHARMAN

STATE OF HAWAII DEPARTMENT OF HAWAIIAN HOME LANDS P O. BOX (1879)

KONDEL LE . HAWAI 90805

May 20, 2016

Mr. Scott Glenn, Director Office of Environmental Quality Control State of Hawai'i – Department of Health 235 South Beretania Street, Room 702 Honolulu, Hawai'i 96813

RECE O N

Dear Mr. Glenn:

The Department of Hawaiian Home Lands (DHHL) hereby transmits the Final Environmental Assessment and Finding of No Significant Impact (FEA-FONSI) for the Ho'olehua Water System PWS 230 Improvements situated in portions of various TMK parcels, in the Kalama'ula and Ho'olehua Hawaiian Homestead Communities on the island of Moloka'i, for publication in the next available edition of the Environmental Notice.

The FEA-FONSI includes copies of comments and responses received during the 30-day public comment period on the draft environmental assessment and anticipated finding of no significant impact (DEA-AFNSI).

Enclosed is a completed OEQC Publication Form as a Word file, a hard copy of the FEA-FONSI, and a searchable Adobe Acrobat PDF file of the same. Simultaneous with this letter, we have submitted the summary of the action in a text file by electronic mail to your office.

Should there be any questions, please contact Jeffrey Fujimoto, Project Manager, Land Development Division, at (808) 620-9270.

Sincerely,

youly h

Jobie M.K. Masagatani, Chairman Hawaiian Homes Commission

Enclosures:

OEQC Publication Form (MS Word file on CD) FEA-FONSI (Adobe Acrobat PDF file on CD) FEA-FONSI (1 hard copy)