COMMISSION ON WATER RESOURCE MANAGEMENT

STATE OF HAWAI'I

Surface Water Use Applications,)	
Integration of Appurtenant Rights)	Case Number CCH-MA 15-01
and Amendments to the Interim Instream)	
Flow Standards, Nā Wai 'Ehā Surface)	
Water Management Areas of Waihe'e)	
River, Waiehu Stream, Wailuku River)	
(previously known as 'Īao Stream))	
and Waikapū Stream, Maui)	

ERRATA TO

FINDINGS OF FACT,

CONCLUSIONS OF LAW, AND DECISION & ORDER

The Commission hereby amends Findings of Fact, Conclusions of Law, and Decision & Order filed in this case on June 28, 2021, to make the following revisions to the Decision and Order section 193:

- 1. Mahi Pono's total irrigation requirement is amended to reflect the correct calculated amount:
- 2. Allowed system losses are reduced to be consistent with the system losses claimed by Wailuku Water Company of approximately five percent (5%);
- 3. The amount of water available from Well No. 7 as an alternative source is increased, including additional justification for the increased amount;
- 4. Correct the stated amount for the existing use permit based, in part, on changes noted above and correction of calculation errors; and
- 5. Specify the sources of the withdrawals for the existing use permit.

Attached hereto as Exhibit "A" is a document showing the revisions to the Decision and Order section 193 in redline. Attached hereto as Exhibit "B" is a clean version of the amended section which should replace the original Decision and Order section 193.

This decision shall be effective immediately upon filing.

DATED:	Jun 30, 2021	
		Sgame Q. Cose
		SUZANNE D. CASE, CHAIRPERSON
		saith ETTauraoko
		KEITH E. KAWAOKA
		B
		KAMANAMAIKALANI BEAMER, PH.D.
		Michael Buck
		MICHAEL G. BUCK
		Wayne K Katayama
		WAYNE K. KATAYAMA
		Neil J Hannahs
		NEIL HANNAHS
		Recused
		PAUL I MEYER

EXHIBIT A

193. **SWUPA 2206-Mahi Pono** (FOF 480.)

- a. Mahi Pono's total irrigation requirement is 16.609.125 mgd.
- b. System losses of 2.15 mgd is excessive and unsubstantiated. Other system losses by the other large water diverter, Wailuku Water Company, were able to be reduced to approximately five percent of water diverted.

 System losses by Mahi Pono of five percent (5%) of water diverted are reasonable. Mahi Pono's system losses are 2.15 mgd5% of water diverted or 456,250 gpd.
- c. Mahi Pono's alternative sources are:
 - i. 0.1 mgd from Mahi Pono's 'Īao Tunnel.
 - ii. 34.5 mgd from Well No. 7.
 - a. The Commission, in considering nonpotable resources for irrigation, must balance between competing interests. Operationally, this may mean the use of both non-potable resources, which can only be determined by an analysis of the specific circumstances of each case to determine the amount of each competing resource which is not "practicably available," *supra*, COL 110.
 - 1. Surface water would be available for Mahi Pono's Waihe'e-Hopoi fields only after the IIFS are met, offstream uses of higher priority are met, and water is allocated between offstream uses of equal priority.
 - 2. For water from Well No. 7, water would be available after considering costs, technology, and logistics, and the sustainable yield of the aquifer.

- 3. After determining the amount of water that is reasonable and beneficial to irrigate the Waihe'e-Hopoi fields, surface water must be offset by the contribution from other sources that are practicably available.
- b. Cost is the only consideration that Mahi Pono cites as making water from Well No. 7 not "practicably available," as logistics and technology are already in place; i.e., a new pump and pipeline. But Mahi Pono only cites costs for 18.5 mgd or 9 mgd, which, when used, would mean that the Waihe'e-Hopoi fields would be in complete or at least in substantial production and producing income. Currently, less than 200 acres are in experimental plantings, which would be using only approximately 0.955 mgd (200 acres x 4,776 gad), which Mahi Pono estimates would cost \$178 per million gallons of water. There is no indication at what point pumping costs for Well No. 7, without offsetting income, would cause Mahi Pono to cease activities on the 3,650 acres of the Waihe'e-Hopoi fields if surface water was not available.
- c. What limits the practical availability of brackish water from Well No. 7 is the sustainable yield for the underlying Kahului Aquifer, which is 3 mgd from natural recharge.
- d. Recharge from irrigation is currently unknown but the Commission had determined, and Mahi Pono had confirmed, that total yield was a maximum of 18.5 mgd on a sustainable daily basis when sugar cane was being irrigated at rates determined by the Commission to have been excessive.
- e. Currently, only a few hundred acres are being irrigated and at about 80% of the

reasonable and necessary irrigation rate determined by the Commission for sugar cane. Thus, while research and testing are being conducted and expansion of acres under cultivation proceeds gradually, irrigation recharge will be minimal or even non-existent.

- f. As acres under active cultivation increases, recharge is expected to increase in some direct proportion to irrigation—though at rates significantly less than under sugar cane irrigation—making more brackish water available from Well No. 7. But as more brackish water is used from Well No. 7 to offset surface waters, there will be less recharge. Therefore, the contribution of Well No. 7 to irrigation requirements would be constantly changing, and the equilibrium point between the two may never be known, much less achieved.
- g. Mahi Pono is expected to contribute at a minimum approximately half of its primary irrigation need from Well No. 7.
- e. This existing use permit is limited to withdrawal of 3,981,250 mgd from Waihe'e Stream and 1,000,000 mgd from Wailuku River.

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¹—Total irrigation requirements of 16.60<u>9.125</u> mgd are reduced by 0.1 mgd from Mahi Pono's `Īao Tunnel and 3<u>4.5</u> mgd from Well No. 7's natural sustainable yield.

- <u>f.</u> In addition to the standard conditions, the permit is subject to the following special conditions:
 - i. Mahi Pono will coordinate its and other down-ditch permittees' day-to-day water requirements such that Mahi Pono will utilize water in the Waihe'e Ditch (through the Hopoi Chute, which drops water down to the Spreckels Ditch near the latter's terminus) without negatively impacting down-ditch permittees' allocations.
 - ii. To prevent waste, Mahi Pono is permitted to use any and all waters that reach the terminus of the Spreckels Ditch (previously ending in the Waialae Reservoir, which is now being bypassed).
 - iii. Although Mahi Pono is permitted 13.5 mgd of surface waters to irrigate its Waihe'e-Hopoi fields, when Mahi Pono's use of surface water reaches half of its permitted amount, or approximately 7 mgd, it will be required to use Well No. 7 to the point that the brackish well water becomes unusable for irrigation.

Without significant recharge from irrigation, the yield from Well No. 7 cannot be expected to be significantly higher than the natural recharge. The permitted amount of 13.5 mgd already contains the discount from 3 mgd of the Kahului Aquifer's natural recharge. Thus, if significant increase in recharge is to occur, significant overlying irrigation has to occur. There is a new, lower, and unknown yield from Well No. 7 than what was historically achieved.

- iii v. As a condition of this permit, Mahi Pono is required to gage and continuously monitor with the installation of a parshall flume or a Commission staff approved water meter, at the following locations:
 - 1. Spreckels Ditch at South Waiehu Stream (CWRM gage 6-63)
 - 2. Spreckels Ditch Intake at Wailuku (CWRM gage 6-18)

3. South Waiehu 'Auwai

EXHIBIT B

193. **SWUPA 2206-Mahi Pono** (FOF 480.)

- a. Mahi Pono's total irrigation requirement is 9.125 mgd.
- b. System losses of 2.15 mgd is excessive and unsubstantiated. Other system losses by the other large water diverter, Wailuku Water Company, were able to be reduced to approximately five percent of water diverted. System losses by Mahi Pono of five percent (5%) of water diverted are reasonable. Mahi Pono's system losses are 5% of water diverted or 456,250 gpd.
- c. Mahi Pono's alternative sources are:
 - i. 0.1 mgd from Mahi Pono's 'Īao Tunnel.
 - ii. 4.5 mgd from Well No. 7.
 - a. The Commission, in considering nonpotable resources for irrigation, must balance between competing interests. Operationally, this may mean the use of both non-potable resources, which can only be determined by an analysis of the specific circumstances of each case to determine the amount of each competing resource which is not "practicably available," *supra*, COL 110.
 - 1. Surface water would be available for Mahi Pono's Waihe'e-Hopoi fields only after the IIFS are met, offstream uses of higher priority are met, and water is allocated between offstream uses of equal priority.
 - 2. For water from Well No. 7, water would be available after considering costs, technology, and logistics, and the sustainable yield of the aquifer.

- 3. After determining the amount of water that is reasonable and beneficial to irrigate the Waihe'e-Hopoi fields, surface water must be offset by the contribution from other sources that are practicably available.
- b. Cost is the only consideration that Mahi Pono cites as making water from Well No. 7 not "practicably available," as logistics and technology are already in place; i.e., a new pump and pipeline. But Mahi Pono only cites costs for 18.5 mgd or 9 mgd, which, when used, would mean that the Waihe'e-Hopoi fields would be in complete or at least in substantial production and producing income. Currently, less than 200 acres are in experimental plantings, which would be using only approximately 0.955 mgd (200 acres x 4,776 gad), which Mahi Pono estimates would cost \$178 per million gallons of water. There is no indication at what point pumping costs for Well No. 7, without offsetting income, would cause Mahi Pono to cease activities on the 3,650 acres of the Waihe'e-Hopoi fields if surface water was not available.
- c. What limits the practical availability of brackish water from Well No. 7 is the sustainable yield for the underlying Kahului Aquifer, which is 3 mgd from natural recharge.
- d. Recharge from irrigation is currently unknown but the Commission had determined, and Mahi Pono had confirmed, that total yield was a maximum of 18.5 mgd on a sustainable daily basis when sugar cane was being irrigated at rates determined by the Commission to have been excessive.
- e. Currently, only a few hundred acres are being irrigated and at about 80% of the reasonable and necessary irrigation rate

determined by the Commission for sugar cane. Thus, while research and testing are being conducted and expansion of acres under cultivation proceeds gradually, irrigation recharge will be minimal or even non-existent.

- f. As acres under active cultivation increases, recharge is expected to increase in some direct proportion to irrigation—though at rates significantly less than under sugar cane irrigation—making more brackish water available from Well No. 7. But as more brackish water is used from Well No. 7 to offset surface waters, there will be less recharge. Therefore, the contribution of Well No. 7 to irrigation requirements would be constantly changing, and the equilibrium point between the two may never be known, much less achieved.
- g. Mahi Pono is expected to contribute at a minimum approximately half of its primary irrigation need from Well No. 7.
- d. Mahi Pono is issued an existing use permit for 4.98125 mgd (4,981,250 gpd) which is determined by adding 9.125 mgd for irrigation of 3,650 acres of the Waihe'e-Hopoi fields (3,650 ac x 2,500 gad = 9,125,000 gpd) and 456,250 gpd in system losses minus 0.1 mgd from Mahi Pono's 'Īao Tunnel and 4.5 mgd from Well No. 7.
- e. This existing use permit is limited to withdrawal of 3,981,250 mgd from Waihe'e Stream and 1,000,000 mgd from Wailuku River.
- f. In addition to the standard conditions, the permit is subject to the following special conditions:
 - i. Mahi Pono will coordinate its and other down-ditch permittees' day-to-day water requirements such that Mahi Pono will utilize water in the Waihe'e Ditch (through the Hopoi Chute, which drops water down to the Spreckels Ditch near the latter's terminus)

- without negatively impacting down-ditch permittees' allocations.
- ii. To prevent waste, Mahi Pono is permitted to use any and all waters that reach the terminus of the Spreckels Ditch (previously ending in the Waialae Reservoir, which is now being bypassed).
- iii. As a condition of this permit, Mahi Pono is required to gage and continuously monitor with the installation of a parshall flume or a Commission staff approved water meter, at the following locations:
 - 1. Spreckels Ditch at South Waiehu Stream (CWRM gage 6-63)
 - 2. Spreckels Ditch Intake at Wailuku (CWRM gage 6-18)
 - 3. South Waiehu 'Auwai

COMMISSION ON WATER RESOURCE MANAGEMENT

STATE OF HAWAII

Surface Water Use Permit App Integration of Appurtenant Rig Amendments to the Interim In Standards, Na Wai Eha Surfac Management Areas of Waihee Waikapu Streams, Maui	ghts and) stream Flow) ee Water)	CCH-MA15-01
	CERTIFICATE OF SERVICE	<u></u>
On June 30, 2021	, a copy of the foregoing d	ocument was posted on the
Commission on Water Resour	ce Management's website and served	on the parties that have opted for
electronic service.		
Joseph Alueta	David & Anne Brown	Pauline Kanegai Curry
P.O. Box 785	2525 Kahekili Hwy.	P.O. Box 3172
Wailuku, HI 96793	Wailuku, HI 93793-9233	Wailuku, HI 96793
Michael Bailie	Regino Cabacungan	Charles Dando, Sr. & Jr.
PO Box 1433	2192 Mokuhau Road	85 E. Kanamele Loop
Wailuku, HI 96793	Wailuku, HI 96793	Wailuku, HI 96793
Vernon Bal	Thomas Cerizo	Alfred & Patricia DeMello
230 Koeli Street	1740 Kamamalu Place	El Ranchitos DeMello
Wailuku, HI 96793	Wailuku, HI 96793	P.O. Box 1394
		Lockeford, CA 95237
Dorothy Bell	Cordell Chang	
1419 Nuna Place	2315 Kahekili Hwy.	Michael Doherty
Waikapu, HI 96793	Wailuku, HI 96793	41 Waihee Valley Road Wailuku, HI 96793
Alan Birnie	Joshua Chavez	
175 W. Waiko Road	P.O. Box 6240	Richard Emoto
Wailuku, HI 96793	Kahului, HI 96733	2032 B Ulei Lane
		Wailuku, HI 96793
	Winifred and Gordon Cocket	t
Gary & Evelyn Brito	1159 Piihana Road	Patricia Federcell
2160A Puuohala Road	Wailuku, HI 96793	88 S Papa Avenue, Apt. 404
Wailuku, HI 96793		Kahului, HI 96732-3307

Rudy & Perlita Fernandez Hiolani Ranch LLC Leinaala Kihm P.O. Box 330808 P.O. Box 34167 1415 Honua Place Kahului, HI 96733 San Diego, CA 92163 Wailuku, HI 96793 Sterling Kim Roderick Fong Brian Ige Fong Construction Company RCFC Kehalani, LLC Hale Mua Properties, LLC 2005 Main Street 250 Alamaha Street, Suite Inc. 495 Hukilike Street, Bay 4 Wailuku, HI 96793 N18 Kahului, HI 96732 Kahului, HI 96732 Ronald Jacintho **Dave Gomes** Pohakulepo Recycling, LLC Clifford & Cristal Koki 150 Pakana Street P.O. Box 442 Hawaiian Cement - Maui Wailuku, HI 96790 Wailuku, HI 96793 Concrete and Aggregate Division P.O. Box 488 Ronald Jacintho Lawrence Koki Kahului, HI 96732 ROJAC Trucking, Inc. 2585 Kahekili Highway 150 Pakana Street Wailuku, HI 96793 Russel Gushi Wailuku, HI 96793 185 West Waiko Road Mary Jane Kramer Na Mala o Waihee Private Wailuku, HI 96793 Amanda Jones Water Co. Inc. Spencer Homes Inc. Valentine Haleakala c/o Commercial Properties of P.O. Box 97 2160 Puuohala Road Kihei, HI 96753 Maui Management, Inc. Wailuku, HI 96793 1962-B Wells Street Kaanapali Kai, Inc. Wailuku, HI 96793 Robert Hanusa P.O. Box 910 895 Malaihi Road Wailuku, HI 96793 Donald Kuemmeler Wailuku, HI 96793 RCFC Kehalani, LLC Kaui Kahalekai 555 California Steet, Suite 202 Waihee Valley Road Darrell Higa 3450 918 Kanakea Loop Wailuku, HI 96793 San Francisco, CA 94104 Lahaina, HI 96761 Kenneth Kahalekai Living Waters Land George & Yoneko Higa 240 Waihee Valley Road Foundation, LLC Wailuku, HI 96793 P.O. Box 7 592 S. Papa Avenue Kahalui, HI 96732 Santa Barbara, CA 93102 Alfred Kailiehu Sr. Paul and Jennifer Higashino Jane Laimana Alfred Kailiehu, Jr. 45-520 Alokahi Street P.O. Box 239 3660 Kahekili Hwy.

Kaneohe, HI 96744

Wailuku, HI 96793

Wailuku, HI 96793

Cindy Lee, Managing Agent Waiolani Mauka Community Association, Inc. c/o Scott Nunokawa P.O. Box 946 Wailuku, HI 96793

David & Katherine Lengkeek 128 River Road Wailuku, HI 96793

Nadao Makimoto 374 Nihoa Street Kahului, HI 96732

Glenn McLean 350 West Waiko Road Wailuku, HI 96793

Kenneth Mendoza 2160 B Puuohala Road Wailuku, HI 96793-0463

Lawrence Miyahira Jason Miyahira P.O. Box 762 Wailuku, HI 96793

Jerri Jane K. Young 1455 Miloiki Street Honolulu, HI 96825-3229

Jinsei Miyashiro Trust P.O. Box 235 Wailuku, HI 96793

Lester Nakama Aloha Poi Factory, Inc. 800 Lower Main Street Wailuku, HI 96793 David Niehaus 1630 Piiholo Road Makawao, HI 96768

Nobriga's Ranch Inc. P.O. Box 1170 Wailuku, HI 96793

Kalani & Tera Paleka P.O. Box 342 Wailuku, HI 96793

Robert Pinto c/o Claire Pinto 130 Pilikana Place Wailuku, HI 96793

Milla Richardson 94 Laukahi Street Kihei, HI 96753

Isabelle Rivera c/o Regino Cabacungan 2192 Mokuhau Road Wailuku, HI 96793

Katherine Riyu P.O. Box 696 Wailuku, HI 96793

Peter Fritz 107 Waihee Valley Rd. Wailuku, HI 96793

Alfred Santiago & Colin Kailiponi 2445C Vineyard St. Wailuku, HI 96793

Ione Shimizu 219-K West Waiko Road Wailuku, HI 96793 Donnalee & David Singer P.O. Box 3017 Wailuku, HI 96793

Kurt & Betsy Sloan P.O. Box 310 Kihei, HI 96753

Warren Soong 245A West Waiko Road Wailuku, HI 96793

Yoshie Suehiro & Natalie Hashimoto 915 Malaihi Road Wailuku, HI 96793

Noel & Katherine Texeira P.O. Box 2846 Wailuku, HI 96793-7846

Thomas & Patricia Texeira & Denise Texeira 205 Waihee Valley Road Wailuku, HI 96793

Waldo Ullerich Emmanuel Lutheran Church & School P.O. Box 331194 Kahului, HI 96733

Melvin Riyu & Judith Yamanoue PO Box 696 Wailuku, HI 96793

ELECTRONIC SERVICE

Noelani & Alan Almeida alana89@juno.com

Gordon Almeida P.O. Box 1005 Wailuku, HI 96793

Douglas Bell puna.papabell@gmail.com

1420 Honua Place Waikapu, HI 96793

Doyle Betsill teresa@bbcmaui.com

c/o Betsill Brothers P.O. Box 1451 Wailuku, HI 96793

Francisco Cerizo cerizof@gmail.com

PO Box 492

Wailuku, HI 96793

Heinz Jung and Cecilia Chang cici.chang@hawaiiantel.net

P.O. Box 1211 Wailuku, HI 96793

Jordanella (Jorrie) Ciotti jorrieciotti@gmail.com

484 Kalua Road Wailuku, HI 96793

Fred Coffey hawaii50peleke@yahoo.com

1271 Malaihi Road Wailuku, HI 96793

James Dodd jimdodd47@gmail.com

P.O. Box 351

Wailuku, HI 96793

Steve Haller hallerlandscapes@gmail.com

1060 East Kuiaha Road

Haiku, HI 96708

Kathy De Hart kdehart17@gmail.com

P.O. Box 1574

Wailuku, HI 96793

John V. & Rose Marie H. Duey

Hooululahui LLC 575 A Iao Valley Rd. Wailuku, HI 96793

jduey@maui.net

cc: Nani Santos

nanisantos808@gmail.com

Stanley Faustino

c/o Kanealoha Lovato-Rodrigues

kanealoha808@gmail.com

384 Waihee Valley Road

Wailuku, HI 96793

William Freitas

c/o Kapuna Farms LLC

2644 Kahekili Highway Wailuku, HI 96793

kapunafarms@gmail.com

Diannah Goo

c/o April Goo ag2517@aol.com

2120 C Kahekili Hwy. Wailuku, HI 96793

Nicholas Harders on behalf of:

waikapu@me.com

Karl & Lee Ann Harders

1422 Nuna Pl. Wailuku, HI 96793

Theodore & Zelie Harders

T&Z Harders FAM LTD PTNSHP

Theodore and Zelie Harders Family Ltd. Partnership

1415 Kilohi St. Wailuku, HI 96793

Greg Ibara gregibara56@gmail.com

227 Kawaipuna Street Wailuku, HI 96793

Evelyn Kamasaki

Cynthia Ann McCarthy Claire S. Kamasaki 1550 Nukuna Place Wailuku, HI 96793

cmcmaui@live.com

Charlene E. and Jacob H. Kana, Sr.

PO Box 292

Wailuku, HI 96793

char1151@hawaii.rr.com

Kimberly Lozano

P.O. Box 2082 Wailuku, HI 96793 pauahi808@aol.com

Downey Rugtiv Manoukian TTEE

POB 1609

Waianae, HI 96792

downrm@yahoo.com

Renee Molina

P.O. Box 1746 Wailuku, HI 96793 myoheo@yahoo.com

Douglas Myers

1299 Malaihi Road Wailuku, HI 96793

upperwaiehu@yahoo.com

Nelson Okamura

Kihei Gardens & Landscaping Co. LLP

P.O. Box 1058 Puunene, HI 96784 nokamura@kiheigardens

Francis Ornellas

340 Iao Valley Road Wailuku, HI 96793

kumuwiliwili@gmail.com

Lorrin Pang

Wailuku, HI 96793

166 River Road

pangk005@hawaii.rr.com

Victor and Wallette Pellegrino

c/o Hokuao Pellegrino 213 West Waiko Road Waikapu, HI 96793

hokuao.pellegrino@gmail.com

L. Ishikawa

Piko Ao, LLC

2839 Kalialani Circle Pukalani, HI 96768

lorilei@hawaii.edu

Michael Rodrigues 2518 W. Main Street Wailuku, HI 96793 mikerodmaui@yahoo.com

Waldemar & Darlene Rogers

1421 Nuna Place Wailuku, HI 96793 rogersw001@hawaii.rr.com

Burt Sakata

107 Waihee Valley Rd. Wailuku, HI 96793 waihee89@yahoo.com

Bryan Sarasin, Sr.

c/o Bryan Sarasin, Jr.

P.O. Box 218 Wailuku, HI 96793 mauifishfarm@hawaiiantel.net

Duke & Jean Sevilla & Christina Smith

702 Kaae Road Wailuku, HI 96793 sevillad001@hawaii.rr.com

Jeff and Ramona Lei Smith

P.O. Box 592 Wailuku, HI 96793 ohianui.ohana@gmail.com

Murray and Carol Smith

P.O. Box 11255 Lahaina, HI 96761 murray@jps.net

Crystal Smythe

John Minamina Brown Trust 727 Wainee Street, Suite 104 Lahaina, HI 96761

04

nalanismy the @yahoo.com

Clayton Suzuki

Linda Kadosaki Reed Suzuki Scott Suzuki P.O. Box 2577 Wailuku, HI 96793 cssuzuki@hawaiiantel.net

John Varel

191 Waihee Valley Road Wailuku, HI 96793 jvarel@fusionstorm.com

Michele and Leslie Vida, Jr. mikievida@hotmail.com

135 Pilikana Place Wailuku, HI 96793

Leslie Vida, Sr. dmlavida@yahoo.com

c/o Donna Vida 125 Pilikana Street Wailuku, HI 96793

Roger Yamaoka rryamaoka@aol.com Kevin Yamaoka kty@hawaii.rr.com

1295 Old Waikapu Road Wailuku, HI 96793

Caleb Rowe, Esq. caleb.rowe@co.maui.hi.us
Kristin Tarnstrom, Esq. kristin.tarnstrom@co.maui.hi.us
County of Maui susan.pacheco@co.maui.hi.us

Department of the Corporation Counsel

200 South High Street Wailuku, HI 96793

(County of Maui, Department of Water Supply)

Colin J. Lau, Esq. colin.j.lau@hawaii.gov

465 S. King Street, Room 300 Honolulu, Hawaii 96813

cc: Russell Kumabe russell.p.kumabe@hawaii.gov Holly McEldowney holly.mceldowney@hawaii.gov

(Department of Land and Natural Resources, Division of State Parks)

Yvonne Izu, Esq.yizu@moriharagroup.comWayne E. Costa, Jr., Esq.wcosta@moriharagroup.comKris N. Nakagawa, Esq.knakagawa@moriharagroup.com

Morihara Lau & Fong LLP 400 Davies Pacific Center

841 Bishop Street Honolulu, HI 96813

cc: Garret Hew ghew@hcsugar.com

(Hawaiian Commercial & Sugar Co. (HC&S))

Tina Aiu, Esq. christina@hilt.org

Oahu Island Director

Hawaiian Islands Land Trust, HILT

P.O. Box 965 Wailuku, HI 96793

cc: Scott Fisher scott@hilt.org

Penny Levin pennysfh@hawaii.rr.com

Isaac Moriwake, Esq. imoriwake@earthjustice.org Summer Kupau-Odo skupau@earthjustice.org Earthjustice jbrown@earthjustice.org 850 Richards Street jparks@earthjustice.org

Suite 400

Honolulu, HI 96813

(Hui O Na Wai Eha and Maui Tomorrow Foundation)

Avery & Mary Chumbley abc@aloha.net

363 West Waiko Road Wailuku, HI 96793

(Makani Olu Partners LLC)

jyamamoto@ychawaii.com Jodi Yamamoto, Esq. Wil Yamamoto, Esq. wyamamoto@ychawaii.com

Yamamoto Caliboso 1100 Alakea Street

Suite 3100

Honolulu, HI 96813

(MMK Maui, LP, The King Kamehameha Golf Club, Kahili Golf Course)

Judy Tanaka, Esq. judy.tanaka@dentons.com Pamela Bunn, Esq. pamela.bunn@dentons.com

DENTONS US LLP

1001 Bishop Street, Suite 1800

Honolulu, HI 96813

(Office of Hawaiian Affairs)

Craig Nakamura, Esq. cnakamura@carlsmith.com chall@carlsmith.com

Catherine L.M. Hall, Esq.

2200 Main Street, Suite 400

Wailuku, HI 96793

Carlsmith Ball LLP

(Wahi Hoomalu Limited Partnership)

9

Peter A. Horovitz, Esq. pah@mhmaui.com
Kristine Tsukiyama, Esq. kkt@mhmaui.com

Merchant Horovitz LLLC 2145 Wells Street, Suite 303

Wailuku, HI 96793

(Waikapu Properties, LLC and MTP (Maui Tropical Plantation) Operating Company, LLC)

cc: Albert Boyce albertboyce@gmail.com

Brian Kang, Esq. bkang@wik.com
Emi L.M. Kaimuloa ekaimuloa@wik.com

Watanabe Ing, LLP First Hawaiian Center

999 Bishop Street, 23rd Floor

Honolulu, HI 96813

(Wailuku Country Estates Irrigation Company (WCEIC))

Paul R. Mancini, Esq. pmancini@mrwlaw.com

James W. Geiger, Esq. jgeiger@mrwlaw.com

Paul Mancini, Esq.

Mancini, Welch, & Geiger LLP

RSK Building

305 Wakea Avenue, Suite 200

Kahului, HI 96732 cc: Avery Chumbley

(Wailuku Water Company, LLC)

Tim Mayer, Ph.D. tim mayer@fws.gov

Supervisory Hydrologist Water Resources Branch US Fish and Wildlife Service 911 NE 11th Avenue

Portland, OR 97232-4181

cc: Frank Wilson <u>frank.wilson@sol.doi.gov</u>

Earleen Tianio earleen@tonytlaw.com

Takitani, Agaran & Jorgensen, LLLP 24 North Church Street, Suite 409

Wailuku, HI 96793

(Ken Ota, Saedence Ota, Kurt Sloan, Elizabeth Sloan, Anthony Takitani, Audrey Takitani, Kitagawa

Motors, Inc., SPV Trust and Gerald W. Lau Hee)

Benjamin A. Kudo, Esq. Jae B. Park, Esq. Ashford & Wriston 999 Bishop Street Suite 1400 Honolulu, Hawaii 96813 (Mahi Pono, LLC) bkudo@awlaw.com jpark@awlaw.com

Lawrence H. Miike Hearings Officer 1151 Punchbowl Street, Room 227 Honolulu, Hawaii 96813 lhmiike@hawaii.rr.com

Linda L.W. Chow, Esq. Deputy Attorney General 465 S. King Street, Room 300 Honolulu, Hawaii 96813 linda.l.chow@hawaii.gov

/s/ Kathy Yoda

Kathy Yoda

Commission on Water Resource Management