MINUTES

REGULAR MEETING OF THE BOARD OF WATER SUPPLY

March 25, 2019

At 2:01 pm on March 25, 2019 in the Board Room of the Public Service Building at 630 South Beretania Street, Honolulu, Hawaii, Board Chair Andaya called to order the Regular Meeting.

Present: Bryan P. Andaya, Chair

Ray C. Soon Max Sword

Ross S. Sasamura Jade T. Butay

Also Present: Ernest Lau, Manager and Chief Engineer

Ellen Kitamura, Deputy Manager and Chief Engineer

Erwin Kawata Barry Usagawa Marc Chun Mike Fuke Jason Takaki Joe Cooper Kevin Ihu

Kathleen Elliott-Pahinui

Robert Morita Michele Thomas Sandra Moriki Garon Hamasaki

Others Present: Jeff Lau, Deputy Corporation Counsel

Jessica Wong, Deputy Corporation Counsel

Tom Meyers, Brown and Caldwell Susan Uyesugi, SSFM International

Absent: Kapua Sproat

Kay C. Matsui

APPROVAL OF MINUTES

DISCUSSION

Board Member Ray Soon requested that on page 2, the language in the third paragraph be amended to read as follows:

Upon review and approval of the minutes of the regular meeting held on January 28, 2019, Mr. Soon commented that the audit was too complex to review in such a short period. Mr. Soon asked Chair Andaya if the Board considered having a committee to review an audit.

MOTION

Ross Sasamura and Ray Soon motioned and seconded, respectively, to approve the Minutes of the Regular Session Meeting of February 25,

2019, as amended. The motion was unanimously carried.

ADDOPTION OF RESOLUTION NO.895,2019	Adoption of Special Revenue Bond Series 2019 Resolution No. 895, 2019, Authorizing Up to \$11,200,000.00 Principal Amount of Series 2019 Special Purpose Revenue Bonds for Nuuanu Reservoirs No. 1 and No. 4
DISCUSSION	Chair Andaya deferred to another board meeting due to a couple of issues needed to be clarified before presenting to the Board.

LEGISLATIVE BILLS UPDATE Chair and Members
Board of Water Supply
City and County of Honolulu
Honolulu, Hawaii 96843

Chair and Members:

Subject: Legislative Bills Update

This report addresses the status of various legislation heard by the City Council and State Legislature. The City Council adopted two measures on March 8, 2019. The State Legislature is at mid-point of the 2019 Session and moved a number of measures on March 7, 2019, which is the deadline date of First Crossover of all bills to pass third reading in order to move (or crossover) to the other chamber.

The Board of Water Supply (BWS) continues to monitor and track all bills that may directly or indirectly impact the BWS. The BWS submitted written testimony on the following bills heard by the respective committees (as underlined below). The BWS is also desk monitoring other bills of interest and a legislative tracker list is attached at the end of this report.

City Council Legislation

Resolution No. 18-266, CD1: Urging the United States Environmental Protection Agency and the Hawaii State Department of Health to reject the approval of a single wall tank upgrade alternative option for the Red Hill Bulk Fuel Storage Facility and to reject the conclusions presented in the Groundwater Protection and Evaluation Considerations for the Red Hill Bulk Fuel Storage Facility Report dated July 27, 2018.

BWS Position: Supports. Status: Adopted, March 8, 2019.

Resolution No. 19-19, CD1: Authorizing Exemptions from Certain Requirements Relating to the 902 Alder Street Affordable Housing Development and Juvenile Services Center and Shelter Project at Honolulu, Oahu, Hawaii, Tax Map Key 2-3-012: 019.

BWS Position: Supports. Status: Adopted, March 8, 2019.

State Legislation

House Bills (HB)

HB381, House Draft (HD) 1: (Health) To protect the State's underground drinking water sources and surrounding environment by requiring the administrative rules adopted by the department of health relating to underground storage tanks and tank systems to conform with, and be no less stringent than, federal regulations governing underground storage tank systems. The House Water, Land, and Hawaiian Affairs (WLH) Committee passed a House Draft (HD) 1 with amendments by requiring the Fuel Tank Advisory Committee to meet biannually; and changing the effective date to promote further discussion; referred to Consumer Protection and Commerce (CPC). BWS Position: Supports. Status: Carries over to 2020 Session.

HB445, HD1: (Capital Improvement Projects for Water Reuse) Authorizes general obligation bonds for capital improvements to the State's water reuse systems. As a result of HCR 86 (2018, Session Laws of Hawaii (SLH)), the BWS participates on a task force to identify barriers and solutions to expanded water reuse in the state. The task force identified several water reuse demonstration projects, which were chosen for their readiness, public outreach capacity, high visibility, innovation, and high volume of water reuse. The House WLH Committee passed an HD 1 with amendments by replacing a water reuse demonstration project with the Kanaha Beach Park water reuse project, maintaining the Kealekehe Wastewater Treatment Facility as a water reuse project, inserting blank amounts and changing the effective date; referred to Finance (FIN) Committee, which passed unamended. BWS Position: Supports. Status: Crossed to the Senate.

HB594, HD1: (Kunia Wells IV Exploratory Well) Appropriates funds to the Department of Land and Natural Resources for the design and construction of one exploratory well to meet future potable water requirements for diversified agriculture. The House WLH Committee passed an HD 1 with amendments by changing the appropriation to an unspecified amount and the effective date to promote further discussion; referred to FIN, which passed the bill unamended. BWS Position: Supports. Status: Crossed to the Senate.

HB828: (Dam Safety) Requires the Department of Land and Natural Resources to be responsible for the maintenance of, or provide for the maintenance of, private dams and reservoirs within the State. Maintains the State's immunity from liability. Appropriates funds. BWS Position: Monitor. Status: Carries over to 2020 Session.

HB1121, HD1: (Water Security) Requires the Commission on Water Resource Management to conduct an update of the statewide framework for the Hawaii water plan to provide guidance for Hawaii's future water plan; and makes an appropriation. The House Energy and Environmental Protection (EEP) and the WLH Committees passed the bill with an HD1 by changing the effective date to promote

further discussion; referred to FIN, which passed the bill unamended. BWS Position: Supports. Status: Crossed to the Senate.

HB1328, HD1: (Government Websites) Requires that state and county websites be translated into the Hawaiian language. Appoints the Office of Planning to coordinate the translation. Appropriates funds. The WLH Committee passed an HD 1 with amendments by clarifying that state and county websites shall include an option for English language portions to be translated, rather than be immediately translated, into the Hawaiian language; changing the effective date to promote further discussion; referred to FIN. BWS Position: Monitor. Status: Carries over to 2020 Session.

HB1553, HD1: (Homeland Security) Establishes the Hawaii State Fusion Center as a program under the Office of Homeland Security and establishes the position of Hawaii State Fusion Center Director who shall be state-funded, responsible to the Director of Homeland Security, and accountable to manage the operations of the Center. The House Committee on Public Safety, Veterans, and Military Affairs (PVM) passed this measure unamended; referred to the Judiciary (JUD) Committee, which passed an HD1 changing the effective date for further discussion; referred to FIN, which passed unamended. BWS Position: Supports. Status: Crossed to the Senate.

Senate Bills (SB)

SB221, Senate Draft (SD)1: (Cesspools) Authorizes the Department of Health to coordinate with each county wastewater agency to establish a low interest loan program to upgrade or convert cesspools to septic systems or aerobic treatment unit systems, or to connect cesspools to existing sewer systems or other wastewater treatment systems approved by the department. The Committee on Agriculture and Environment (AEN) passed a SD 1 deleting language that would have allowed the loan program to include the option of onbill financing. BWS Position: Opposed. Status: Crossed to the House.

SB234, SD1: (Department of Health) Appropriates funds to the department of health for capital improvement projects related to statewide pollution control as a state match to federally funded capitalization grant projects. The Committee on AEN passed a SD1 to incorporate adjustment expressed by this measure into the appropriate legislative vehicle; and changing references to the "safe drinking water revolving fund" to the "drinking water treatment revolving loan fund"; referred to the Committee on Ways and Means (WAM), which deferred the measure. BWS Position: Supports. Status: Carries over to 2020 Session.

<u>SB609, SD2</u>: (Critical Infrastructure Resiliency) Establishes a Homeland Security and Resiliency Council to identify electric grid and

other critical infrastructure needs and provide recommendations for enhancing the State's grid and critical infrastructure resiliency; and appropriates funds. The Homeland Security and Resiliency Council shall comprise of county emergency management, water supply departments, environmental services or environmental management departments et al. The Joint Committees on Public Safety, Intergovernmental, and Military Affairs (PSM) / Energy, Economic Development, and Tourism (EET) passed a SD1 by adding representatives to the Homeland Security and Resiliency Council; making the administrator the co-chair in lieu of the Director of Office of Planning on the Council; and amending the definition of "critical infrastructure sector" to include the sectors of gas energy and interisland transport of property of water referred to WAM, which passed a SD2 by clarifying the Council to take measures to protect from public release any information that, if released, could reasonably expected to cause damage to public security and to clarify the administrative head of each county's representative; and changes the effective date for further discussion. BWS Position: Supports. Status: Crossed to the House.

SB649, SD1: (Water Conservation) Establishes a two-year water conservation financial assistance pilot program to provide financial assistance to county-owned public water systems; and appropriates funds. The Joint Committees on Water and Land (WTL) / PSM passed a SD1 designating each of the four county water supply departments as the administrative authority of the water conservation financial assistance pilot program, in lieu of the Commission on Water Resource Management (CWRM); removing the requirements that the county water supply departments solicit proposals from county-owned public water systems, prioritize proposals with nonstate matching funds, and provide financial assistance to countyowned public water systems on a reimbursement basis: removing the reimbursement cap of fifty percent pf the total cost of each county water conservation incentive program; each of the four county water supply departments shall provide matching funds on a one-to-one cost share basis to match or leverage with non-state funds appropriated for the purposes of the water conservation financial assistance pilot program; and allocating appropriated funds equally to each of the four county water supply departments and designates the respective department as the expending agency, in lieu of the CWRM; referred to WAM. BWS Position: Supports. Status: Carries over to 2020 Session.

SB901, SD1: (Water Conservation) Requires the Department of Health (DOH) to adopt rules by January 1, 2021, for onsite non-potable water reuse systems. The AEN Committee passed SD1 to change the deadline by which the DOH must adopt rules from January 1, 2020 to January 1, 2021 due to the complexity of adopting rules for the expanded program and the need to consult with affected parties. BWS Position: Supports the intent; provided comments. Status: Crossed to the House.

SB1542, SD2: (Kunia Wells IV Exploratory Well) Appropriates funds to the Department of Land and Natural Resources for the design and construction of one exploratory well to meet future potable water requirements for diversified agriculture. The Joint Committees on WTL / AEN passed a SD1 to clarify the purpose section of the bill to better reflect the BWS proposals regarding the proposed Kunia Wells IV pump stations; the purpose is to meet future potable water requirements for growth, including diverse agriculture; and changing the effective date to further discussions; referred to WAM, which passed with a SD2 changing the appropriation to facilitate further discussion. BWS Position: Supports. Status: Crossed to the House.

Respectfully submitted,

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

Attachments"

HOUSE	1			1
BILL#	DRAFT NO.	Last Status	DESCRIPTION	COMM. REFERRAL
2	HD2	Carry over to 2020	State Budget	FIN, WAM
5		Carry over to 2020	Minimum Wage: Increase	LAB, FIN
11		Carry over to 2020	Military Affairs; Short Form	PVM
		Carry over to	Environment: Climate Change; St.R; Malama Makalae Coast	
19		2020 Crossed to	Council; Lt. Gov; Appropriations	EEP/WLH, FIN LAB, FIN;
34	HD1	Senate	Wages (foreman classification be w/in Davis-Bacon)	LCA, WAM
95	HD1	Carry over to 2020	Wages; timely payment	LAB, FIN
96	HD1	Crossed to Senate	Minimum Wage (Authorizes Countles to estab. rates)	LAB, FIN; LCA/PSM, WAM
105		Carry over to 2020	Minimum Wage (Minors)	LAB, FIN
157	UD4	Crossed to	Collective Resociates - displayure sequirements	LAB, FIN;
157	HD1	Senate Crossed to	Collective Bargaining - disclosure requirements Labor Law Compliance for Govt. Contracts - Contractors to	LCA, WAM
158	HD1	Senate	submit certified payrolls	GVO/LCA, WAM
186		Carry over to 2020	Minimum Wage - CCH Mayor's Package (Authorizes Counties to estate, rates)	LAB, FIN
234		Carry over to 2020	Department of Health - CIP drinking water & clean water projects	HSH/HLT, FIN
261	HD1	Carry over to 2020	Agriculture - Qualified Costs, clearing/removal of trees, soil restoration,incentives	AGR, FIN
306		Carry over to 2020	County Land Use Requirements	WLH/AGR/EEP, FIN
381	HD1	Carry over to 2020	Health - Fuel Tank Advisory Committee	HLT, CPC, FIN
425	HD1	Crossed to Senate	Water Quality Monitoring (DOH - 1 FTE); \$	HLTAVILH, FIN; AEN, WAM
427		Carry over to 2820	Dam and Reservoir Safety - BLNR requirements	WLH, FIN
436		Carry over to 2020	Critical Infrastructure Resiliency	EEP/PVM. FIN
***	UD4	Crossed to	Onnite New policies Mater Bourge Surface: DOM adoptions	HLT/WLH, FIN; CPH/AEN
444	HD1	Senate Crossed to	Onsite Non-potable Water Reuse Systems, DOH adopt rules	WLH, FIN;
445	HD1	Senate	Water Reuse Demonstration Projects; CIP; GO Bond (Mair) Sustainability - Establish a stronger policy framework for Hawaii	WAM
] [sustainability efforts by incorporating sustainability coordination	
440		Crossed to	and planning into the duties / responsibilities of the Office of	EEP/EDB, FIN;
449	HD1	Senate Crossed to	Planning. Sea Level Rise - Establish SLR Relocation Program &	EET/WTL, WAM EEP/WLH, FIN;
461	HD1	Senate	Coordinator	AEN/WTL, WAM
479		Carry over to 2020	Housing - Aloha Homes Authority	HSG/TRN/WLH, JUD FIN
502	HD1	Carry over to 2020	Fire Protection for residences (30% tax ored) for installation, water meter & permitting fees) for new one- and two- family dwelling	CPC, FIN
524	HD1	Carry over to 2020	Fire Sprinklers - Tex Credit	HSG, CPC, FIN
547	HD1	Carry over to 2020	Farms -51% Tax Credit	AGR/EDB, FIN
549	HD1	Crossed to Senate	Environment - Climate Chg; SLR; Flooding; CZM (incl counties)	EEP, JUD, FIN; AEN/WTL, JDC/WAN
551		Crossed to Senate	Cesspools - extends the lapse date for study of sewage	EEP, FIN; AEN/CPH/HRE, WAN

HOUSE BILLS 1 OF 3

HOUSE BILL#	DRAFT NO.	Last Status	DESCRIPTION	COMM. REFERRAL
555		Carry over to 2020	Environment - Carbon Offset Program; planting of trees	EEP, FIN
556	HD1	Crossed to Senate	Energy Efficiency - water conservation standard; appliances	EEP/EDB, CPC; EET, CPH
		Crossed to		EEP. LHE, FIN:
560	HD1	Senate	Energy Training - UH to provide ET to state/county Ees	HRE, WAM
571		Cerry over to 2020	Taxation - Tax Credit for Albizia Tree Trimming or removal	WLH/EEP, FIN
577		Carry over to 2020	Sewer Improvements - Req. CCH estab. Pilot prog. Upgrade Sewer connections.	EEP/WLH, FIN
591	HD1	Carry over to 2020	Watershed Areas (Req. DLNR obtain approval Game Council)	WLH/EEP, JUD, FIR
593	HD1	Crossed to Senate	Land Use - Agriculture requirements solar development	EEP/WLH, FIN: WTL/EET, WAM
594	HD1	Crossed to Senate	Appropriation for a Kunia Wells IV Exploratory Well - \$1 mil	WLH, FIN; WTL/AEN, WAM
		Carry over to		
661		2020	Health (USTs; DDH; Environ, Protection; Red Hill Task Force)	EEP/HLT, JUD, FIN
		Carry over to	Environmental Protection - Eliminate plastic debris in ocean, watersheds, forests, streams, beaches; Estab. Council and	
717	HD1	2020	Plastic Pollution Initiative Program; \$\$\$	EEP, FIN
719		Carry over to 2020	Environmental Protection - polystyrene cleanup	EEP, CPC, FIN
828		Carry over to 2020	Dam Safety - Req DLNR to be responsible for R&M	WLH, JUD, FIN
837		Carry over to	Environmental Response - specifies permitted uses of environ response revolving fund. \$\$ environ disaster	EEP. FIN
848		Carry over to	Protection of Streams	WLH/EEP, FIN
886		Carry over to 2020	Soil and Water Conservation Districts	
897	HD1	Crossed to Senate	Department of Land & Natural Resources - \$\$ dofaw fire/equipmt, wished restoration & carbon sequestration	EDB, FIN; WTL, WAM
987	HD1	Carry over to 2020	Procurement Filing Fee - for protesting bid	LAB, FIN
		Crossed to	Emergency Management - HI-EMA to coordinate with county emergency mgmt; adopt standards & req for county ER mgmt	PVM, JUD, FIN;
993	HD2	Senate	plans	PSM, WAM
1105		Carry over to 2020	Environment Protection - Injection Wells	EEP/HLT, JUD, FI
1110		Carry over to 2020	Flood Mitigation - Manoa Valley; Task Force (BWS)	WLH, FIN
1121	HD1	Crossed to Senate	Water Security - Hawaii Water Plan CWRM	WLH/EET, FIN; WTL, WAM
1141	101	Carry over to	Aloha Homes Program - HHFDC, TOD,	HSG/TRN/WLH, JU
1146	HD1	Crossed to Senate	Procurement - Past Performance criteria to be considered	LAB, FIN; GVO, WAM
		Crossed to	Environment Protection - Pilot Project of New tollet & sewage technologies	EEP. HLT, FIN: CPH, WAM
1170	HD2	Senate Crossed to	Minimum Wage - Increase mw rates effective 1/1/20 - 1/1/24, 511.00 to \$15.00 respectively.	LAB, FIN; LCA, WAM
1191	HD1	Senate	311.00 to 313.00 respectively.	
1255		Carry over to 2020	State Water Code Penalties - DLNR	WLH, JUD, FIN
1261	HD1	Crossed to Senate	Judicial Proceedings - CWRM Contested Hearings	JUD; JDC, WAM

HOUSE BILLS 2 OF 3

HOUSE	1			
BILL#	DRAFT NO.	Last Status	DESCRIPTION	COMM. REFERRA
			Water Rights - Allows for ten consecutive one-year holdovers of	
		Crossed to	water permits; req. automatic continuation pendency of contested	WLH, FIN;
1326	HD2	Senate	cases until completion of proceedings	WTL, WAM
	1	Carry over to	Government Websites - State & County; an option to translate	
1328	HD1	2020	from English to Hawaiian language	WLH, FIN
1407	1100	Carry over to 2020	Environment - Climate Change = carbon offset \$\$\$	CCDANNII COC C
3407	HD2		Unfunded Liabilities - Rate Stabilization Reserve Fund. Self-	EEPWLH, CPC, F
1 465	HD1	Crossed to Senate		LAB, FIN;
1462	ועח		insured Plans, use of TAT revenues	GVO/LCA, WAM
4 400	une	Crossed to Senate	Climate Charge Crossbaura Con Securetration Test Force	EEPWLH, FIN;
1483	HD1		Climate Change - Greenhouse Gas Sequestration Task Force	AEN, WAM
1487	HD1	Crossed to Senate	Climate Change - Pilot Project Honolulu Shoreline SSS	EEP, FIN;
1401	H HUI		CBED Advisory Council - analysis to barriers to agriculture start	AENWTL, WAM
1511	HD2	Carry over to 2020	lups	EDB. AGR. FIN
311	- nuz	Crossed to	ions	PVM, JUD, FIN:
1553	HD1	Senate	Homeland Security - Fusion Center Director as state funded	PSM, WAM
1333	1107	DEHING	Sustainability - Establish a stronger policy framework for Hawaii	F GIVI, VV/SIVI
	1		sustainability efforts by incorporating sustainability coordination	
	1	Crossed to	and planning into the duties / responsibilities of the Office of	EEPWLH, FIN:
1558	HD1	Senate	Planning.	EET/WTL. WAM
	1		Name	
			Structure of Government - Establish the Dept of Environment &	
		Crossed to	transfer the Office of Environmental Quality Control and the EC	EEP/LAB/EDB. FIN
1586	HD1	Senate	from DOH; and The Energy Office & OP.	EET/AEN, WAM

HOUSE BILLS 3 OF 3

SENATE	DRAFT	1			
BILL#	NO.	Last Status	DESCRIPTION	COMM. REFERRAL	
				HOUWTL, WAM;	
1	SD2	Crossed to	· · · · · · · · · · · · · · · · · · ·		
	302	the mouse	Trouble Profes Parkers		
		Carry over	Fire Protection - 30% tax credit for installation,		
155		to 2020	water meter, and permitting fees	HOU/PSM, WAM	
		~	0	450	
221	SD1	Crossed to	Cesspools - DOH to coord, w/@county water/sewage dept, a low interest loan program	AEN; EEP, HLT, FIN	
	301	Carry over	Department of Health - Clean Water & Drinking	GET , 1152, 1 114	
234	SD1	to 2020	Water	AEN, WAM	
		Carry over			
263		to 2020	Climate Change - Develop SLR Plans	AEN/WTL/GVO, WAM	
		Crossed to	Public Meetings - Notices to include instructions regarding accompdations for persons with	GVO, JDC;	
335	SD2	the House	disabilities	JUD, FIN	
		Carry over		GVOWTUCPH, JDC/WAM;	
352		to 2020	Bottled Water	EEP/WLH, FIN	
		Carry over	Infrastructure - Water and sewer utilities to consider disruption of traffic & transportation as a		
360		to 2020	criterion in planning future maintenance	CPH/TRS	
	T	Crossed to			
393	SD1	the House	Coastal Management Zone - SLR	AEN/WTL, WAM	
524	004	Carry over	Environmental Protection - Requires counties to	AEN/DOMANACCI IN/ANA	
521	SD1	to 2020 Crossed to	collect/dispose plastic marine debris	AEN/PSM/WTL, WAM WTL, JDC/WAM;	
554	SD2	the House	State Water Code Penalties	WLH, JUD, FIN	
000		Crossed to	Critical Infrastructure Resiliency; identifies electric	PSM/EET, WAM	
609	SD2	the House Carry over	grid & other critical infrastructure needs PSM/EET, Energy Efficiency - (solar water heater mandate		
617		to 2020	Act 204, 2008 SLH) EET. CPH/		
,.		Carry over			
633		to 2020	Fire Protection - Tax Credit PSM/HOU,		
649	SD1	Carry over to 2020	Water Conservation Rebate Program	PSM/WTL, WAM	
049	301	Carry over	Water Conservation Nebate 1 Togram	1 011/11/12, 11/11	
690	SD1	to 2020	Climate Change - SLR impact on State & Counties	AEN/WTL/GVO, WAM	
		Crossed to		AEN, WAM;	
696	SD2	the House	Cesspools - extends sunset date for wkg grp	EEP, FIN	
755	SD1	Carry over to 2020	Agriculture - Task Force; Housing for farmers	AEN/HOU, WAM	
7.00	UD :	Crossed to	Agriculture - Qualified Costs, clearing/removal of	AEN, WAM;	
760	SD2	the House	trees, soll restoration, incentives	AGR, FIN	
200		Carry over			
829		to 2020	Water Rights - Pending applications for lease WTL,		
1		Crossed to	Urban Agriculture - req counties to incorp. urban	PSM/WTL/AEN;	
831		the House	ag principles & policies in land use planning.	WLH/AGR, JUD	
000	654	Carry over to 2020			
832	SD1	10 2020	Important Agricultural Lands - GIA Counties WTL, WAM Darn and Reservoir Safety - First conduct study		
	:	Carry over	before approval to repair, alteration or removal of a		
833	···	to 2020	0 dam or reservoir. WTL, WAI		
1			Farms - Creates an exclusion from income tax for	AEN, WAM;	
ł		Crossed to			

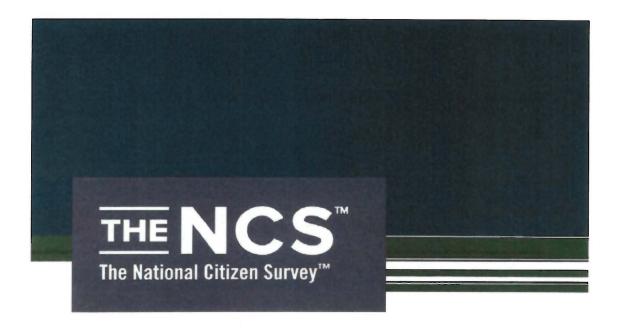
SENATE BILLS 1 OF 3

SENATE	DRAFT			
BILL#	NO.	Last Status	DESCRIPTION	COMM. REFERRAL
862		Carry over to 2020	Judicial Proceedings - contested cases 174C, 205, 269, 91-14, 183C-8,269-15.5, 602-5, HRS.	JDC
897		to 2020	Water Quality Monitoring - DOH AEN. W.	
901	SD1	Crossed to	Onsite Non-Potable Water Reuse Systems - DOH, HAR Water Reuse Task Force (BWS)	AEN; WLH, FIN
		Crossed to	Sustainability - Estab. Statewide sustainability	EET/WTL/GVO, WAM;
908	SD2	the House	division within Office of Planning Water - Prohibits BLNR from approving dispositions	EEP/EDB, FIN
915		Carry over to 2020	that authorize water diversions from streams except under specified criteria.	WTL
930		Carry over to 2020	Climate Change - State/Counties SLR Plans	AENWTL, WAM
935	SD1	Crossed to the House	CIP for Water Reuse - GO Bonds for CIP to State's water reuse systems (Maui)	WAM; WLH, FIN
944	SD2	Crossed to the House	Climate Change - prioritize nature-based solutions; afforestation	AEN/WTL, WAM; EEP, WLH, FIN
946		Carry over to 2020	Public Safety - ER Mgmt, train state/county personnel	PSM, WAM
961		Carry over to 2020	Critical Infrastructure - state/counties	EET/PSM/TEC, WAM
975	SD2	Crossed to the House	County Land Use Requirements - CPR	AEN, WAM/CPH; WLH/AGR/EEP, FIN
987		Carry over to 2020	Renewable Energy Technologies	EET, WAM
1008		Carry over to 2020	Land Use - Utility scale solar development	WTL/EET/AEN, WAM
1012		Carry over to 2020	Fluoridation - State/counties	CPH, WAM
1054	SD2	Crossed to the House	Planning - State/Counties to incorporate SLR Plans	PSM/AEN/WTL, WAM; EEP/WLH, CPC, FIN
1062	SD1	Carry over to 2020	Waste Management - State/counties	GVO/PSM, WAM
1063		Carry over to 2020	Wireless Communications	TEC/EET, WTL
1064	SD2	Crossed to the House	Agriculture - CPR restrictions and exemptions	WTL/PSM, CPH; AGR/WLH, CPC, FIN
1066	SD1	Carry over to 2020	Dept of Agriculture - State Incentives, Food Production	AEN/WTL/HWN, WAM
1084, 1085, 1086,1087, 1088, 1089, 1090		Carry over to 2020	Collective Bargaining	LCA, WAM
1113	SD1	Carry over to 2020	Coastal Zone Management - SLR Impacts	AEN/WTL, WAM
1116		Carry over to 2020	Water Rights - DLNR Contested Hearings WTL, \	
1125		Carry over to 2020	State Lands - BLNR submerged land WTL, W	
1126	SD2			
1213	SD1		CPH, WAM Procurement - Filing Fee to protest bld LAB, FIN	
			Emergency Management - HI-EMA to coordinate w/county emergency management agencies;	
1219	SD1		adopt standards & requirementts for county emergency mgmt plans	PSM, WAM

SENATE BILLS 2 OF 3

SENATE	DRAFT	Ţ		· · · · · · · · · · · · · · · · · · ·
BILL,#	NO.	Last Status	DESCRIPTION	COMM. REFERRAL
		Carry over		
1285	<u> </u>	to 2020	Fire Protection - Sprinklers Tax Credit	CPH, WAM
		Crossed to		CPH;
1323	SD1	the House	Appliance Efficiency Standards	EEP/EDB, CPC, FIN
		Crossed to	Procurement - Performance Evals on Contractors:	GVO, WAM;
1333	SD2	the House	past performance	Lab, Fin
	ļ	Carry over	Cesspools - DOH to coord. w/@county water/sewage dept.	
1369		to 2020	a low interest loan program	CPH/PSM, WAM
	1	Crossed to	Cesspools - For DHHL Certified by county sewer	ACTAIR DAME TAVALE
1370	SD2	the House	company; Grant program to upgrade or convert cesspool. Tax credit	AEN/HWN, WAM; WLH/EEP, FIN
1370	302	Carry over	Cesspool, Tax Clear	77111111111111111
1372		to 2020	Underground Storage Tanks - HAR	AEN/PSM, CPH
	 	10 1010	Transit Orient Development - Grants & Loans to	712-147 OM, O/ 11
]		state & counties for improvements in TOD zones;	
		ļ	to increase capacity of infrastructure facilities,	
	İ	Crossed to	including water systems, drainage systems, roads,	HOU/TRS, WAM;
1389	SD2	the House	etc.	TRN/HSG, WLH, FIN
	l		Disaster Relief - Enables HI-EMA to coordinate	
	ì		with non-profit & business entities; authorizes	
	ļ	Carry over	county ER Mgmt agencies to encourage multi- sector disaster relief community networks &	
1420	1	to 2020	incorporate into emergency mgmt plans	PSM, WAM
1420		10 2020	Climate Change - Urban Honolulu; shoreline	FOW, YVAGN
	1	Carry over	protection pilot project, \$\$ req. 50% county	
1487		to 2020	matching funds	LCA, WAM
			Appropriation for a Kunia Wells IV Exploratory	
		Crossed to	Well to offset design/construction costs for one of	WTL/AEN, WAM;
1542	SD2	the House	four exploratory wells	WLH, FIN

SENATE BILLS 3 OF 3



Honolulu, HI 2018



National Research Center, Inc. | Boulder, CO International City/County Management Association | Washington, DC

Not at all important

The National Citizen Survey™

When asked about the importance of issues for the City to address in next two years, the impact of the homeless population received the highest priority ratings by residents. Second was protecting Honolulu's drinking water aquifers. Establishing a marine debris collection program and providing additional on-line City services also were felt to be at least very important to a majority of residents.

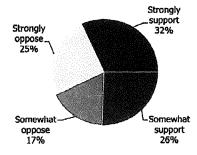
■Essential ■Very important ■Somewhat important

Figure 6: Importance of Issues How important, if at all, are the following issues for the City to address in the next 2 years?

The impact of the homeless 62% 1% population on the community Protecting Honolulu's drinking water aquifers from the Navy's 54% fuel storage leaks Establishing a marine debris collection program to keep all 40% beaches clear of debris Providing additional online City 23% 30% services Addressing overcrowded beaches, parks and trails for 16% residents and visitors Providing additional meetings for residents impacted by 13% 12% **Complete Streets** Increasing fines and security around unmarked and unsafe 1.7% 24% hikes to prohibit trespassing

A final question gauged resident support for bulky items collection disposal. About one-third of residents strongly supported the program and another quarter were in somewhat support.

Figure 7: Support for Bulky Item Disposal How much would you support or oppose collection of bulky items for disposal by appointment only?



DISCUSSION:

Manager Lau gave the report on behalf of Kathy Mitchell.

Max Sword asked if the legislature changed the appropriation for Senate Bill (SB) 1542, Senate Draft (SD) 2, and it's companion measure House Bill (HB) 594, House Draft (HD) 1. Manager Lau stated the House Finance and Senate Ways and Means Committees will meet in conference to discuss both the operating budget and the capital improvement program budget.

Chair Andaya inquired as to how Resolution No. 18-266, CD1 originated.

Manager Lau responded that City Councilmember Carol Fukunaga introduced this resolution. The BWS has periodically given Council Members updates on the Red Hill issue, especially with Councilmember Fukunaga's committee where the Red Hill issue is typically addressed.

Chair Andaya asked if there were any other proponents involved. Manager Lau reported there were significant grassroot support and growing concern about the Red Hill fuel situation by many individuals from the community on Oahu, including the Sierra Club. Over 100 written and oral testimonies supported the resolution. Recently, the Office of the City Auditor released the results of the 2018 National Citizen Survey of Honolulu, which residents are asked about the importance of issues for the City. The 2018 survey shows 87% of the almost 500 residents surveyed rated protecting Honolulu's drinking water aquifers from the Navy's fuel storage leaks as the second highest priority.

ITEM FOR INFORMATION NO. 2

"March 25, 2019

FEE WAIVERS FOR AFFORDABLE, HOMELESS AND FIRE RETROFIT PROJECTS Chair and Members Board of Water Supply City and County of Honolulu Honolulu, Hawaii 96843

Chair and Members:

Subject: Update on Fee Waivers for Affordable, Homeless and Automatic Fire Sprinkler Retrofit Projects

Ellen Kitamura, Deputy Manager, will present an update on the Board of Water Supply's Fee Waivers for Affordable Housing, Homeless and Automatic Fire Sprinkler Retrofit Projects.

Respectfully submitted,

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

Attachments"





Waiver of Fees for Affordable, Homeless and Fire Sprinkler Retrofit Projects Update

Project Name	Туре	Building Permit Approval Date	# Qualified Units	\$ Fees Waived
Kauhale Kamaile Modular Homes	Affordable	10/16/2018	16	\$14,455.74
1902 Young Street Multi-Family Housing	Affordable	10/16/2018	30	\$49,345.55
Kahauiki Village	Homeless	11/02/2018	24	\$63,987.36
Hale Mauliola	Homeless	12/14/2018	78	\$7,357.61
1936 Citron Street	Affordable	12/20/2018	30	\$19,855.78
TOTALS			178	\$155,002.04

Safe, dependable, and affordable water now and into the future



Waiver of Fees for Affordable, Homeless and Fire Sprinkler Retrofit Projects Update

Waiver of Water System Facilities Charge for Qualified Affordable and Homeless Dwelling Units

The Board of Water Supply may waive the Water Systems Facilities Charges and new meter cost for qualified onsite affordable and homeless dwelling units, up to 500 dwelling units per year. The waivers will be granted when the building permit is submitted for approval. To qualify, the dwelling units must be certified as either affordable or homeless dwelling units by the appropriate agency of the City and County of Honolulu. Waiver of the Water System Facilities Charge will apply only to fixture units associated with the certified dwelling units. The amount of the meter waiver shall be calculated as a percentage of the number of certified dwelling units to the total number of dwelling units in the project. If the annual cap of 500 dwelling units has not been reached and a project is proposed that would qualify for more than the remaining number of dwelling units in that year, the Manager and Chief Engineer has the discretion to increase that year's limit. This waiver provision shall expire on June 30, 2023.

Waiver of Meter Charges for Residential Fire Sprinkler Retrofits

The Board of Water Supply may waive the new meter charges for high rise multi-unit residential fire sprinkler retrofits. This waiver provision shall expire on June 30, 2023.

Revision to the Schedule of Rates and Charges for the Furnishing of Water Service Amended by Resolution No. 889, 2018, effective September 15, 2018

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FEE WAIVERS - ADDITIONAL INFORMATION

- To be eligible for the fee waivers, the developer must obtain a letter from the City certifying that the project is an affordable housing or homeless project.
- Eligible fees will be waived when the building permits are submitted for review and approval.
- Fee waivers will not be retroactive. Only projects submitting building permits on or after the effective date will be considered unless the project obtained prior approval from BWS for the fee waiver.
- Fee waivers will apply only to fixture units associated with the affordable housing and homeless dwelling units.
- Only costs associated with the one-time charge for the fire sprinkler meter will be waived for the residential fire sprinkler retrofit projects.
- The BWS will report quarterly on the amount of dwelling units and all fee waivers approved by BWS.
- ◆ The effective date of the fee waiver program is September 15, 2018 Revision to the Schedule of Rates and Charges for the Furnishing of Water Service, amended by Resolution No. 889, 2018
- Unless extended by the Board the fee waiver program will expire on June 30, 2023.

DISCUSSION:

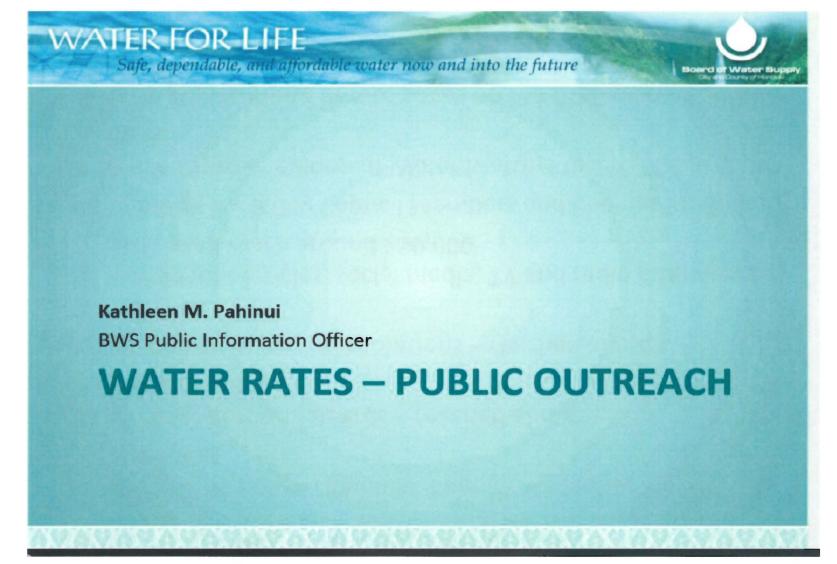
Deputy Ellen Kitamura gave the report.

Chair Andaya asked when the waiver of fees project started and what is the cap on the number of qualified dwelling units the BWS Board approved.

Deputy Ellen Kitamura replied: The waiver fees was effective September 15, 2018 with a cap of 500 qualified dwelling units for the fiscal year; currently 178 dwelling units have received waivers.

Chair Andaya wants the record to reflect that the cap of 500 dwelling units appears to be appropriate as we have not turned anybody away.

Chair Andaya confirmed the Manager and Chief Engineer has the discretion to approve additional dwelling units that could exceed the 500-unit cap.



Recap of 2018 Public Input

- 4 Public Hearings: Honolulu, Kapolei, Kaneohe, Mililani 65
 attendees
- 15 Neighborhood Boards reached about
 500 attendees
- 10 interest group presentations reached about
 150 attendees
- Newspaper articles, social media, TV and radio interviews estimated reach around 250,000
- Briefings for 6 City Council Members and Cabinet Briefing
- Mailed special edition of Water Matters to 170,000 account holders
- Over 20,826 views of rate pages on the BWS website (4/18/18-3/14/19)

2019 Public Outreach

- Inserted small note in Winter Water Matters
- ◆ 4-page Spring Water Matters on new rate structure for mailing with March 2019 bills
- Provided refresher training for Neighborhood Board reps
- Provided Spring Water Matters issue as a hand-out for Neighborhood Boards (NB) and in the customer service area of BWS/ Satellite City Halls March
- Monthly BWS NB messaging to provide a "steady drip" of information at NB meetings
- Start social media campaign about rate increases April 2019
- Reach out to traditional media in June 2019
- How to read your new water bill 4-page insert with July bills
- Rates info highlighted on BWS website home page

DISCUSSION:

Kathleen Elliott-Pahinui, Information Officer of the Communication Division, presented the report.

Board Member Max Sword had concerns regarding the attendance at the public hearing that seemed low. Questioned four public hearings with only 65 attendees.

Kathleen Elliott-Pahinui explained normally a public hearing is done right before the annual board meeting, but this time they had four regional meetings at Kaneohe, Kapolei, Mililani, and here in Honolulu held during the evening with the average of 20 people attending. Presentations were also given at about 15 different neighborhood board meetings. Hearings were recorded an posted to the BWS website.

ITEMS FOR INFORMATION NO. 4

"March 25, 2019

ENERGY SAVINGS PERFORMANCE CONTRACTING PROJECT Chair and Members Board of Water Supply City and County of Honolulu Honolulu, Hawaii 96843

Chair and Members:

Subject: Status Update of the Energy Savings Performance Contracting Project

The Energy Savings Performance Contracting Project (ESPC) continues through the construction phase. The attached provides the Board a brief overview of the project, as well as status update of the ESPC Project.

Respectfully submitted,

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

Attachments"

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Energy Savings Performance Contracting (ESPC) – BWS Facilities

FY 2016 CIP - I. Research and Development - Item 1.

An Update March 25, 2019



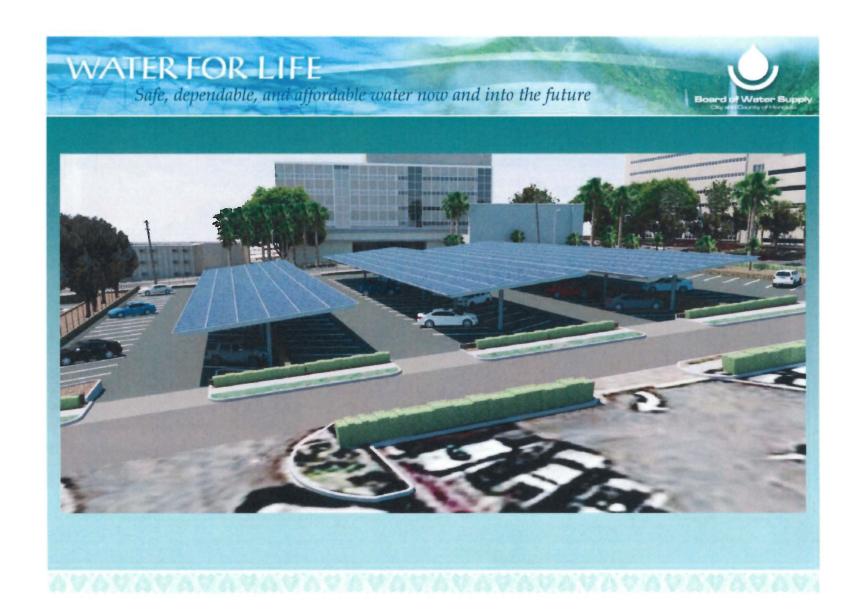
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Status Update
100% Complete
About 65% Complete
Finalizing the Design
Construction Started Dec 2018 20% Complete
10 of 11 Complete (Commissioning in Process)
Construction Complete (Commissioning in Process)
10 of 15 Complete
3 rd Site Starting in April 2019
Finalizing Design / Starting Removal
Designing Pilot
24 of 28 to be purchased by end of FY

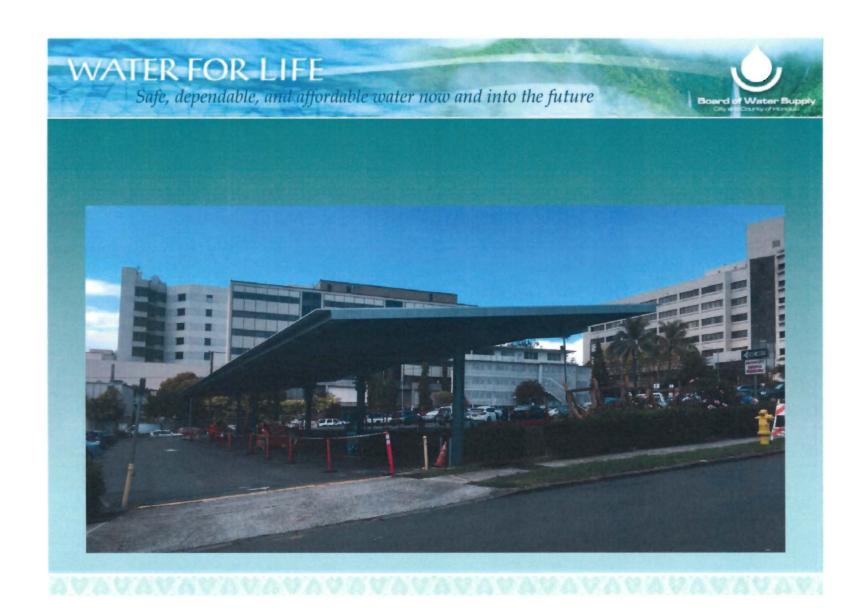
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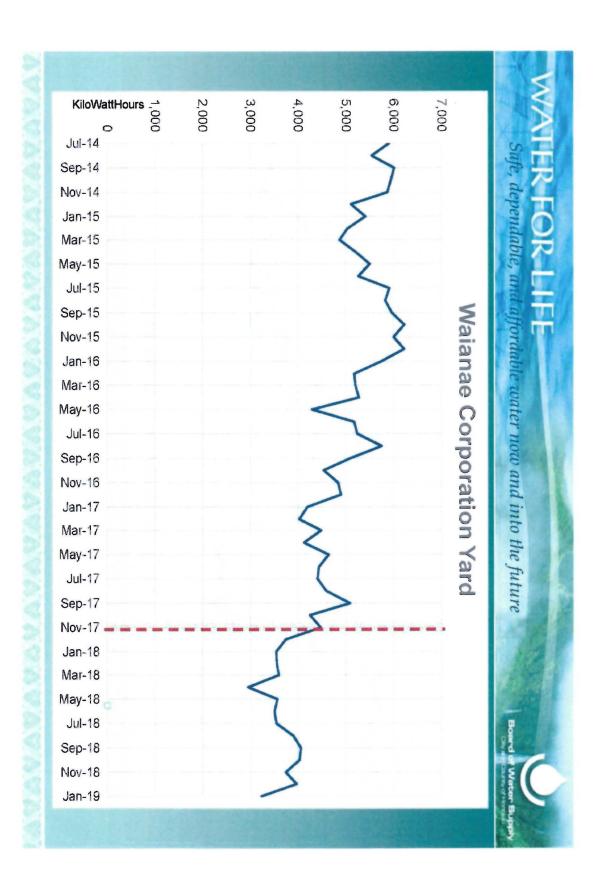






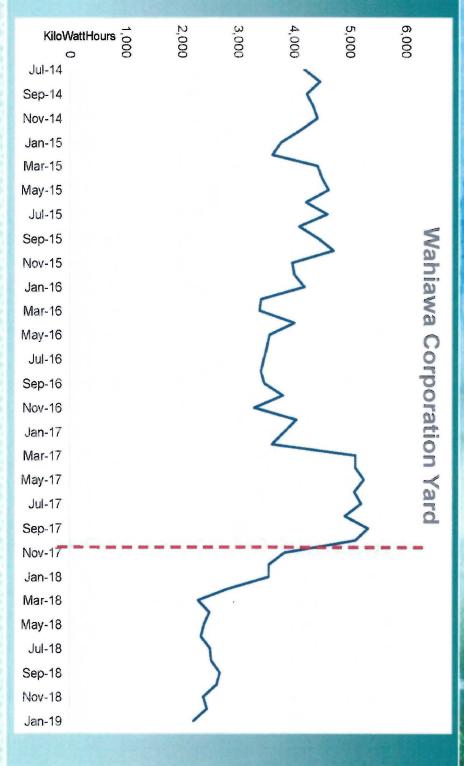




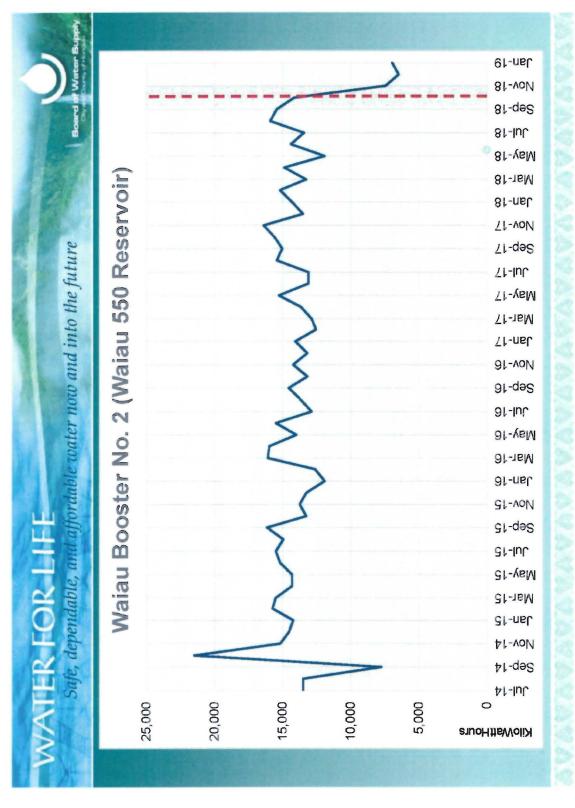




afe, dependable, and affordable water now and into the future







WATER FOR LIFE



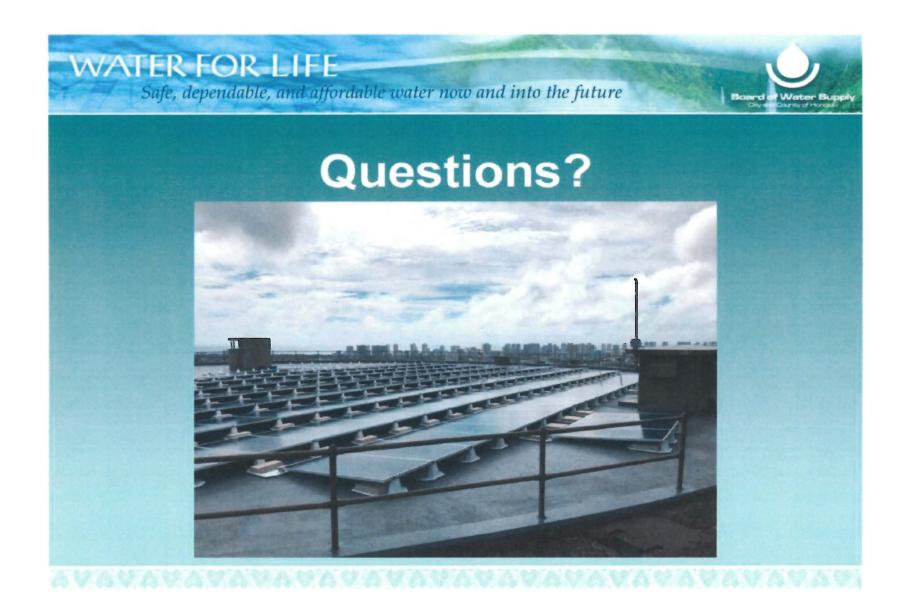


Additional Benefits

Rebates from Hawaii Energy

Type of Rebate	Amount
Kalihi Yard Custom LED Rebate	\$7,019.76
Kalihi Yard Chiller Rebate	\$1,750.50
LED Standard Rebate	\$5,462.00
Beretania Complex Standard Lighting Rebate	\$53,124.00
Beretania Complex Custom LED Rebate	\$2,852.26
	\$70,208.52

March 25, 2019



DISCUSSION:

Marc Chun, Civil Engineer VII of the Water Resources Division, gave the report.

Board Member Ross Sasamura asked if the vehicles are part of the ESPC.

Marc Chun responded initially it was part of the solicitation as a way of reducing operational costs that included 28 vehicles. Going through the process it was discovered it could not be included in the financing purchase. However, the savings generated from the purchase by BWS is included as part of the analysis. The type of vehicles includes Hybrids RAV 4s, SUVs, and Sedans; one of which is a plug-in hybrid.

Board Member Max Sword asked with the rebates and cost of the installation and equipment, what is the payoff and when is the payoff date?

Marc Chun answered the payoff will be paid back by the guarantee savings that comes from all the different improvements we put in. It would take 17 years for the project to be paid off.

Manager Lau said in aggregate, different energy conservation measures have a faster break-even point.

Board Member Ray Soon suggested cash flow should also be showing in the matrix of the status update to be transparent as BWS has been on giving information out to the people. Showing how the savings really is earning money back would be great to see. Board Member Max Sword added "by providing the information it could show what is received from what was promised and will last for 17 years."

Manager Lau informed BWS that the vendor, Noresco, works with the ESPC project that provides an annual measurement and verification report. The project performance report would be generated every year.

GROUNDWATER LEVELS AT ALL INDEX STATIONS Chair and Members Board of Water Supply City and County of Honolulu Honolulu, Hawaii 96843

Chair and Members:

Subject: Status Update of Groundwater Levels at All Index Stations

There were no aquifer index wells within low groundwater status for the production month of February 2019. The monthly production average for February 2019 was 123.94 million gallons per day.

The Board of Water Supply rainfall index for the month of February 2019 was 157 percent of normal; with a 5-month moving average of 108 percent. As of March 5, 2019, the Hawaii Drought Monitor shows abnormally dry for the leeward side of Oahu, from Ewa to Kapolei. The National Weather Service is forecasting below normal rainfall for March 2019.

Most monitoring wells are showing static to slightly increasing trends, likely resulting from decreased pumping during the winter months.

Respectfully submitted,

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

Attachments"

PRODUCTION, HEAD AND RAINFALL REPORT MONTH OF FEBRUARY 2019

POTABLE

PUIABLE	
STATION	MGD
HONOLULU (1)	
KULIOUOU	0.08
WAILUPE	0.07
AINA KOA	0.14
AINA KOA II	0.7€
MANOA II	0.00
PALOLO	1.18
KAIMUKI HIGH	1.97
KAIMUKI LOW	2.54
WILDER	6.61
BERETANIA HIGH	4.21
BERETANIA LOW	1.80
KALIHI HIGH	1.67
KALIHI LOW	2.34
KAPALAMA	0.80
KALIHI SHAFT	8.32
MOANALUA	1.13
HALAWA SHAFT	3.83
KAAMILO	0.89
KALAUAO	6.39
PUNANANI	11.11
KAAHUMANU	0.26
HECO WAIAU	2.71
MANANA	0.24
WELLS SUBTOTAL	59.00
MANOA TUNNEL	0.17
PALOLO TUNNEL	0.23
GRAVITY SUBTOTAL	0.40
HONO. SUBTOTAL	59.40

STATION	MGD
WINDWARD (2)	
WAIMANALO II	0.28
WAIMANALO III	0.00
KUOU I	0.07
KUOU II	0.06
KUOU III	0.35
LULUKU	0.98
HAIKU	0.00
IOLEKAA	0.00
KAHALUU	0.73
KAHANA	0.20
PUNALUU I	0.00
PUNALUU II	0.73
PUNALUU III	0.78
KALUANUI	0.36
MAAKUA	0.13
HAUULA	0.27
WELLS SUBTOTAL:	4.94
WAIM, TUNNELS I & II	0.00
WAIM. TUNNELS III&IV	0.19
WAIHEE INCL. WELLS	0.50
WAIHEE TUNNEL	5.40
LULUKU TUNNEL	0.12
HAIKU TUNNEL	0.94
KAHALUU TUNNEL	1.98
GRAVITY SUBTOTAL:	9.12
WIND. SUBTOTAL:	14.06

MGD
0.40
0.03
0.42
0.44
0.00
1.29
2.57
1.76

MILILANI (4)	
MILILANII	1.76
MILILANI II	0.00
MILILANI III	0.65
MILILANI IV	1.45
MILILANI SUBTOTAL:	3.86

WAHIAWA (5)	
WAHIAWA	1.16
WAHIAWA II	1.70
WAHIAWA SUBTOTAL:	2.86

PEARL CITY-HALAWA (6)	
HALAWA 277	0.58
HALAWA 550	0.00
AIEA	1.09
AIEA GULCH 497	0.33
AIEA GULCH 550	0.18
KAONOHI I	0.93
WAIMALU I	0.00
NEWTOWN	0.80
WAIAU	0.53
PEARL CITY I	0.51
PEARL CITY II	0.97
PEARL CITY III	0.39
PEARL CITY SHAFT	0.92
PEARL CITY-HALAWA SUBTOTAL:	7.24

STATION	MGD
WAIPAHU-EWA (7)	
WAIPIO HTS.	0.09
WAIPIO HTS. I	0.31
WAIPIO HTS. II	0.19
WAIPIO HTS. III	1.15
WAIPAHU	5.00
WAIPAHU II	1.83
WAIPAHU III	1.50
WAIPAHU IV	1.81
KUNIA I	3.57
KUNIA II	1.69
KUNIA III	1.47
HOAEAE	4.35
HONOULIULI I	1.30
HONOULIULI II	6.58
MAKAKILO	0.26
WAIPAHU-EWA SUBTOTAL	31.09

WAIANAE (8)	
MAKAHA I	0.10
MAKAHA II	0.07
MAKAHA III	0.07
MAKAHA V	0.10
MAKAHA VI	0.00
MAKAHA SHAFT	0.00
KAMAILE	0.00
WAIANAE I	0.22
WAIANAE II	0.18
WAIANAE III	0.57
WELLS SUBTOTAL:	1.29
WAIA. C&C TUNNEL	1.40
WAIA. PLANT. TUNNELS	0.16
GRAVITY SUBTOTAL:	1.56
WAIANAE SUBTOTAL:	2.85

NONPOTABLE

HOILI O INDEE	
NONPOTABLE	MGD
KALAUAO SPRINGS	0.72
BARBERS POINT WELL	1.08
GLOVER TUNNEL NP	0.40
NONPOTABLE TOTAL:	2.21

RECYCLED WATER (JANUARY 2019

NECTCLED WATER (JANUART 20	
RECYCLED WATER	MGD
HONOULIULI WRF R-1	4.02
HONOULIULI WRF RO	1.39
RECYCLED WATER TOTAL:	5.41

PRODUCTION, HEAD AND RAINFALL REPORT MONTH OF FEBRUARY 2019

PRODUCTION SUMMARIES

TOTAL WATER	MGD
PUMPAGE	112.86
GRAVITY	11.08
POTABLE TOTAL:	123.94
NONPOTABLE	2.21
RECYCLED WATER	5.41
TOTAL WATER:	131.56

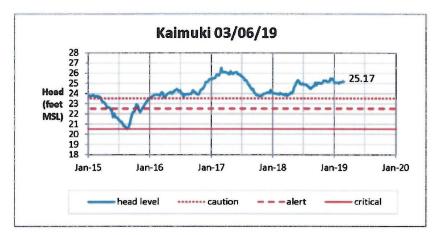
_	POTABLE S	OURCES			
		A	В	C	
	WATER USE DISTRICTS	PERMITTED USE/	FEB	DIFF.	
		BWS YLDS	2019	A-B	
1	HONOLULU	82.93	59.00	23.93	
2	WINDWARD	25.02	8.15	16.87	
3	NORTH SHORE	4.74	2.57	2.17	
4	MILILANI	7.53	3.88	3.67	
5	WAHIAWA	4.27	2.86	1.41	
6	PEARL CITY-HALAWA	12.25	7.24	5.01	
7	WAIPAHU-EWA	50.63	31.09	19.54	
8	WAIANAE	4.34	1.29	3.05	
	TOTAL:	191,71	116.08	75.63	

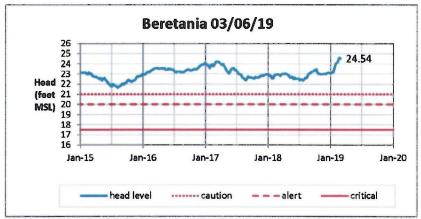
	CWRM PERMIT	TED USE FOR BLE SOURCES			
WATER USE DISTRICTS		A	В	DIFF.	
		PERMITTED USE	FEB 2019		
7	WAIPAHU-EWA (BARBERS POINT WELL)	1.00	1.09	-0.08	
	TOTAL:	1.00	1.08	-0.08	

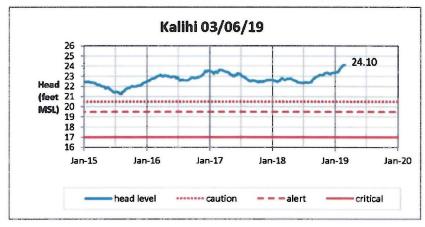
EFFECTIVE WATER DEMAND PER DISTRICT

IMPORT/EXPORT BETWEEN WATER USE DISTR							
FROM	то		MGD				
2	1	WINDWARD EXPORT	1.15				
7	8	BARBERS PT LB	5.65				

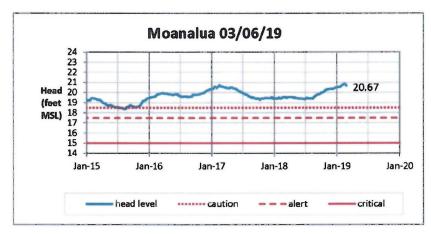
WATER USE DISTRICTS		SUBTOTAL	IMPORT	EXPORT	EFFECTIVE WATER DEMAND
1	HONOLULU	59.00	1.15		60.15
2	WINDWARD	8.15		1.15	7.00
3	NORTH SHORE	2.57	•		2.57
4	MILILANI	3.86		-	3.88
5	WAHIAWA	2.86	•		2.86
6	PEARL CITY-HALAWA	7.24	•		7.24
7	WAIPAHU-EWA	31.09	-	5.65	25.44
8	WAIANAE	1.29	5.65		6.94
	TOTAL:	116.08	6.80	6.80	116.08

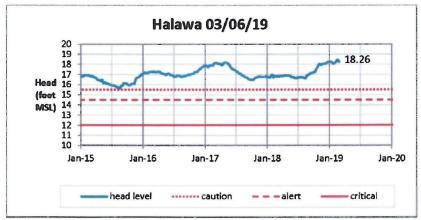


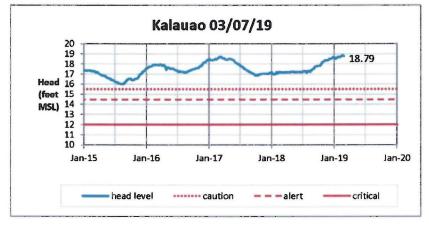




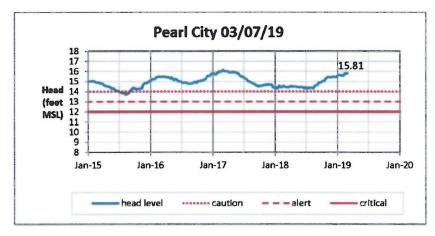
Page 1 of 5

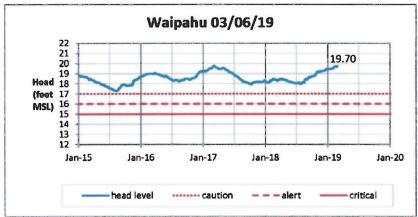


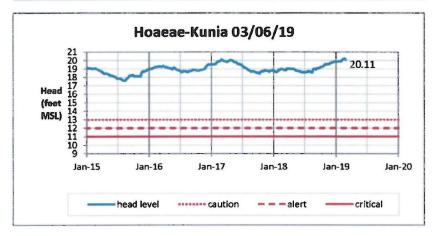




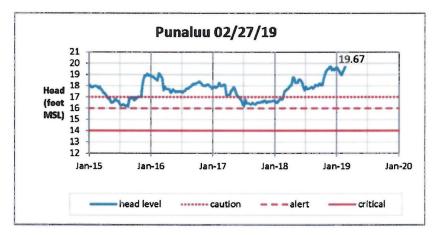
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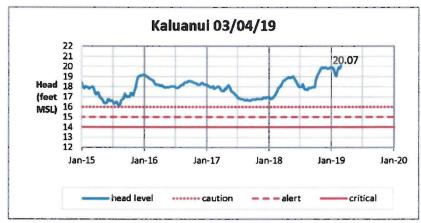


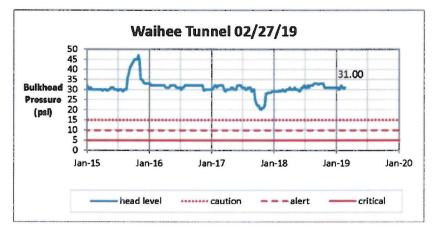




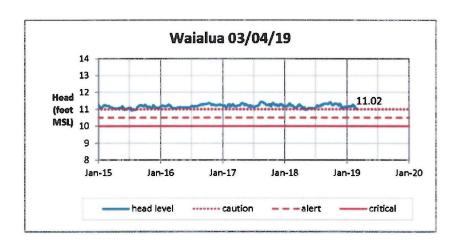
Page 3 of 5



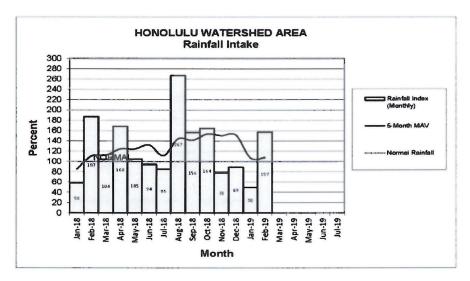


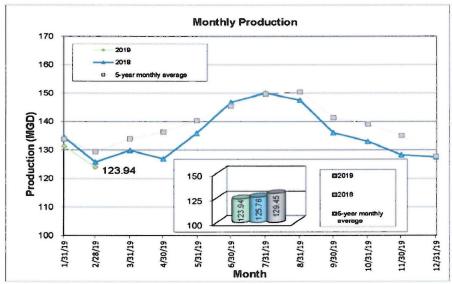


Page 4 of 5



Page 5 of 5





DISCUSSION:

Barry Usagawa, Program Administrator of the Water Resources Division, gave the report.

Board Member Ray Soon questioned why doesn't Waialua water level go higher due to the recent rains there.

Barry Usagawa explained that water levels have been stable despite the rains and small amount of pumping because it is a function of the high amount of groundwater leakage into the ocean. When the plantations closed and pumping was significantly reduced, the expectation was that water levels would eventually go up, but didn't. That is a function of the high amount of leakage going out into the ocean.

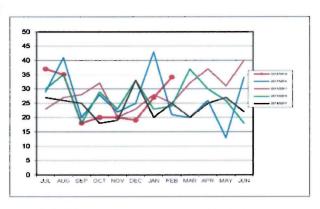
We've seen increases in water levels in other aquifers, like Punaluu, when pumpage was reduced and with above normal rainfall, water levels increased three feet from 2015 to now. The Gyben-Herzberg relationship states that for every foot above mean sea level, there is 40 feet of freshwater below mean sea level in the aquifer. So, 3 feet water level increase means that the aquifer recovered 120 feet in Punaluu

WATER MAIN REPAIR REPORT

for February 2019

	JUL	AUG	SEP	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Total
2018/2019	37	35	18	20	20	19	27	34					210
2017/2018	29	41	20	28	22	25	43	21	20	26	13	34	322
2016/201/	23	2/	28	32	20	23	28	25	32	3/	31	40	346
2015/2016	30	35	18	29	23	33	23	24	37	30	26	18	326
2014/2015	27	26	25	18	19	33	20	25	20	25	27	22	287

Date	Address	Size (In)	Pipe Type
2/1/2019	87-118 Helelua St, Waianae	12	CI
2/2/2019	1718 Day Pl, Honolulu	4	CI
2/2/2019	1800 Hoohulu St, Pearl City	8	CI
2/4/2019	1824 Hoohulu St, Pearl City	3	CI
2/5/2019	91-543 Aikanaka Rd, Ewa Beach	8	CI
2/7/2019	1663 Hoonipo St, Pearl City	8	CI
2/8/2019	1636 Ala Mahina Pl, Honolulu	8	CI
2/8/2019	918 Hala Dr, Honolulu	6	CI
2/10/2019	185 Puiwa Rd, Honolulu	8	CI
2/11/2019	45-1020 Anoi Rd, Kaneohe	8	CI
2/12/2019	10 Niolopa Pl, Honolulu	6	CI
2/12/2019	85-54 Kaupuri St, Waianae	8	AC
2/13/2019	3347 Kaunaoa St, Honolulu	8	CI
2/14/2019	2331 Kuahea Pl, Honolulu	8	CI
2/15/2019	1629 Ala Makani Pl, Honolulu	4	CI
2/15/2019	92-136 Amaui Pl, Kapolei	4	DI
2/15/2019	94-485 Farrington Hwy, Waipahu	8	CI
2/16/2019	2326 Kuahea St, Honolulu	8	CI
2/16/2019	Saratoga Ave, Kapolei	14	PVC (RO)
2/17/2019	218 Kellog St, Wahiawa	8	CI
2/18/2019	2331 Kuahea St, Honolulu	8	CI
2/20/2019	1465 Aala St, Honolulu	12	CI
2/20/2019	2314 Waiomao Rd, Honolulu	8	CI
2/20/2019	819 Aalapapa Dr, Kailua	12	PVC
2/21/2019	1581 Meyers St. Honolulu	8	CI
2/22/2019	133 Puiwa Rd, Honolulu	8	CI
2/22/2019	633 N Judd St, Honolulu	6	CI
2/24/2019	2334 Kuahea St, Honolulu	8	CI
2/24/2019	42 Puiwa Rd, Honolulu	12	PVC
2/25/2019	2340 Kushea St, Honolulu	8	CI
2/25/2019	2343 Kuahea Pl, Honolulu	8	CI
2/26/2019	2284 Waiomao Rd, Honolulu	8	CI
2/27/2019	91-1089 Kaunolu St, Ewa Beach	8	CI
2/28/2019	2056 Manoa Rd, Honolulu	8	CI



1 mile of pipeline was surveyed by the Leak Detection Team in the month of February.

Page 1 of 1

DISCUSSION:

Mike Fuke, Program Administrator of Field Operations, gave the report. There were no comments or discussion

MOTION TO RECESS INTO EXECUTIVE SESSION

Upon unanimously approved motion, the Board recessed into Executive Session Pursuant to [HRS §92-5(a)(2)] at 2:46 PM to Consider Issues Pertaining to Matters Posted for Discussion at an

Executive Session

OPEN SESSION The Board reconvened in Open Session at 3:30 PM

MOTION TO ADJOURN

There being no further business Chair Andaya at 3:32 PM called for a motion to adjourn the Open Session. Max Sword so moved; seconded by

Ray Soon and unanimously carried.

Respectfully submitted,

DONNA A. KUEWA

APPROVED:

THE MINUTES OF THE REGULAR SESSION BOARD MEETING ON MARCH 25, 2019 WERE APPROVED AT THE APRIL 22, 2019 BOARD MEETING

THE AFRIC 22, 2019 BOARD MELTING						
	AYE	NO	COMMENT			
BRYAN P. ANDAYA	x					
KAPUA SPROAT			ABSENT			
MAX SWORD	X					
KAY C. MATSUI		[ABSENT			
RAY C. SOON	X					
ROSS S. SASAMURA	X					
JADE T. BUTAY	l x					

BRYAN P. ANDAYA Chair of the Board

APR 2 2 2019

Date