

WATER RESOURCES COMMITTEE
Council of the County of Maui

M I N U T E S

Council Chamber

October 18, 2018

CONVENE: 1:35 p.m.

PRESENT: VOTING MEMBERS:
Councilmember Alikea Atay, Chair
Councilmember Elle Cochran, Vice-Chair
Councilmember Robert Carroll
Councilmember Kelly T. King
Councilmember Yuki Lei Sugimura (in at 1:45 p.m.)

EXCUSED: Councilmember Stacy Crivello
Councilmember Mike White

STAFF: James Krueger, Legislative Analyst
Leslee Matthews, Legislative Analyst
Stacey Vinoray, Committee Secretary

Ella Alcon, Council Aide, Molokai Council Office (via telephone conference bridge)
Denise Fernandez, Council Aide, Lanai Council Office (via telephone conference bridge)
Dawn Lono, Council Aide, Hana Council Office (via telephone conference bridge)

ADMIN.: Eva Blumenstein, Planning Program Manager, Department of Water Supply
Jennifer Oana, Deputy Corporation Counsel, Department of the Corporation Counsel

OTHERS: Ayron Strauch, Hydrologist, Department of Land and Natural Resources (via telephone conference bridge)
Travis Hylton, Associate Director, United States Geological Service, Pacific Islands Water Science Center
Highness Kaua

Plus (1) other person in gallery

PRESS: *Akaku Maui Community Television, Inc.*

CHAIR ATAY: . . . *(gavel)* . . . Good afternoon everyone. It's 35 minutes after the hour of 1:00 p.m. this Thursday, October 18, 2018. I wanna welcome everyone to the Water Resources Committee meeting. I'd like to ask that everyone in the Chambers come to

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order and with that please silence any noise-making device such as cell phones. I wanna introduce the Committee Members. Myself, Alike Atay as Chairman. Vice Chair, Elle Cochran.

VICE-CHAIR COCHRAN: Aloha, Chair.

CHAIR ATAY: Member Robert Carroll.

COUNCILMEMBER CARROLL: Good afternoon, Chair.

CHAIR ATAY: And Member Kelly King.

COUNCILMEMBER KING: Good afternoon.

CHAIR ATAY: Thank you for being present. Asking to be excused are Mike White, Yuki Lei Sugimura, and Stacy Crivello. Being that we have three Members absent and excused that leaves us with only four Members. Members we will operate on a bare quorum on this meeting. So, if anyone needs to take a break, you need to go to the bathroom, please indicate so, so that we can go into recess. Moving forward, I wanna recognize others from the Administration, Eva Blumenstein, Department of Water Supply.

MS. BLUMENSTEIN: Good afternoon, Chair.

CHAIR ATAY: Corporation Counsel, Jennifer Oana.

MS. OANA: Good afternoon, Chair.

CHAIR ATAY: We have Committee Staff Stacey Vinoray, and James Krueger Legislative Analyst, as well as our...what? . . .*(inaudible)*. . . Okay. Reaching out our District Offices, Dawn Lono out in Hana, Denise Fernandez on Lanai, Ella Alcon on Molokai, and I also wanna recognize in preparation for this meeting my Staff, Legislative Policy Analyst both Trinette Furtado and Brian Bardellini. Today we will have our resource individuals with us in the Chambers. Travis Hylton, Associate Director, United States Geological Service, Pacific Islands Water Science Center.

MR. HYLTON: Good afternoon, Chair.

CHAIR ATAY: And, later on joining us via phone we will have Ayrton Strauch, a Hydrologist, with the Department of Land and Natural Resources representing the Commission on Water Resources Management. And we will be getting connected via phone very shortly. Members, we have one item on today's agenda. Agenda item WR-25. This is an intergovernmental agreement with the United States Geological Survey, Pacific Islands Water Science Center, United States Department of the Interior. I'd like to begin this meeting by taking public testimony. I want to remind anyone and individuals here testifying in the Chamber that you should be signing up at the desk in the lobby. If you are testifying from a remote site, please sign up with that District Office Staff. Testimonies will be limited to the item listed on the agenda today. Pursuant to the Rules

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of the Council, each testifier will be allowed to testify for up to three minutes per item and when testifying please state your name and any organization you may be representing. I'd like to check in first with the District Offices. Hana Office, Dawn Lono do you have anyone wishing to testify?

MS. LONO: Good afternoon, Chair. This is Dawn Lono in the Hana Office and there is no one waiting to testify.

CHAIR ATAY: Thank you. Lanai Office, Denise Fernandez, do you have anyone wishing to testify?

MS. FERNANDEZ: Good afternoon, Chair. This is Denise Fernandez on Lanai and there is no one waiting to testify.

CHAIR ATAY: Molokai office, Ella Alcon, do you have anyone wishing to testify?

MS. ALCON: Good afternoon, Chair. This is Ella Alcon on Molokai and there's no one here waiting to testify.

. . . BEGIN PUBLIC TESTIMONY . . .

CHAIR ATAY: Being that then we'll turn to the Chambers and I'd like to ask Staff to call testifiers who are in the Chamber.

MS. MATTHEWS: Thank you, Chair. Our first testifier is Highness Kaua. He would like to be recognized as counselor, advisor, war captain, premier minister of Hawaii Kingdom ohana, E me we, sovereign nation government.

MR. KAUA: Aloha. Since then Molokai is not here, I'll testify Molokai three minutes, Lanai three minutes, and the other Hana three minutes. And they all three minutes. Pertaining to Hawaii nei, being with the kingdom, Hawaii Kingdom itself ohana, I represent I, me, we, the people which is 39,000 versus the County/State illegal State they are. Also, the 39 million which annexation to the 39,000, 39 million 'cause my blood is pure blooded raw along with brother next to my side they are pure, pure, pure it's not by a number you call 1 percent or 100 percent. I go like this to all of 'em because that's natural. I don't have to curse throughout this time. I could I if I want to, but the point though is the fact that it comes down to the kingdom itself which is 4-plus million acres is all the way to Midway and Rapanui. Really have justified how illegally the snakes, the serpent states, have got states. States. We call snakes states of Illinois so forth I said earlier. Snakes State of Hawaii. What they have done illegally because illegally does not, no just. That only comes to you that I'm talking to because they are made the County which I put within the snake state. count [sic] and county, same "c," same count and [sic] county that you are part of. And I know you don't wanna be a part of because you are a nice person, nice people, I been talking to all my life, and I understand that. The thing is that we get caught up in that word, the word which is the biggest crime of its all, word. And then followed by again the dictionary. I have

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spoken to your corporation judges already, and the judge itself said I represent the people, yes, I do. Cahill, he asked the people, so therefore it is a fact the people. Because I speak for here for the people which you guys call public in you guys own course of tongue, it doesn't mean that you guys get the right to use that tongue against us. That tongue you guys have been using has been so cunningly swift and so cunningly snaky that we, our kids are being shut up by it. How would you like your Japanese, your Chinese, they cut off your tongue? How you like your Thailand or your Filipino cut off your tongue? How about you kanaka cut off your tongue which they have been already, and therefore it is shared that I going into the three minutes again for the Molokai.

CHAIR ATAY: Aloha, Mr. Kaua. The topic...

MR. KAUA: Water.

CHAIR ATAY: I welcome your manao and your direction. I'd like to ask you to stay on topic with the agenda. The agenda that we're accepting testimony on is addressing the water in Kanaha Stream.

MR. KAUA: Kanaha Stream, okay.

CHAIR ATAY: You're clarified on that?

MR. KAUA: Okay. Yes.

CHAIR ATAY: So, I will be lenient in allowing you an extended minute if you have further testimony on this agenda item.

MR. KAUA: Yes, I do. Because I've been with the kingdom itself I already organized water people from all over the Hawaii. That we will shut off all waters. We will cut all waterlines. Because water is where we make our staple food is kalo. What you guys have been honestly taking away our kalo and using that for you guys own main goods, so within all districts remember this, your water do not belong to you. It is not yours to demand. You guys diverted water to your pleasure. Your pleasure does not mean our pleasure, you only take it away from us inside, internally. Raping, raping our internal and external property. Our brain that you guys call in your guys words a man word, mind. It is not your mind that dictates what the word our father has provided. It is yours that you guys put into us with your guy's word cunning. I'm letting you guys know now we will break open the waterlines. We'll do and then we will shut off roads when need to be shut.

CHAIR ATAY: Okay.

MR. KAUA: And if I let the tourists...that's . . .*(inaudible)*. . . as far as that. So, guys, let you know now, hearing today's topic the waterline will be cut into our demand. The road closure it demand it because you passing over my land. Okay. Thank you.

CHAIR ATAY: Thank you very much for your testimony and your manao.

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MR. KAUA: Thank you.

CHAIR ATAY: Next?

MR. KAUA: Anybody?

CHAIR ATAY: Members, any questions, clarifications for this testifier? Thank you. Mahalo.

MS. MATTHEWS: Mr. Chair, that's the, that is all the testifiers we have signed up for today.

CHAIR ATAY: Okay. Once again, there being no remaining testifiers, seeing that there is no one else wishing to testify, if there are no objections, we will be closing public testimony

COUNCILMEMBERS VOICED NO OBJECTIONS.

CHAIR ATAY: Thank you

. . . END OF PUBLIC TESTIMONY . . .

CHAIR ATAY: Members, before we begin deliberation, I'll take a short recess to allow Staff members to do a phone call in with Mr. Ayrton Strauch from the DLNR, CWRM who I would like to have available as a resource person for us today. So, we are going to be in recess at the call of the Chair. . . . *(gavel)* . . .

RECESS: 1:45 p.m.

RECONVENE: 1:48 p.m.

CHAIR ATAY: . . . *(gavel)* . . . We're back in recess [sic] here on the Water Resources Committee meeting this Thursday, October 18th. I'd like to recognize Member Yuki Lei Sugimura.

COUNCILMEMBER SUGIMURA: Aloha, Chair, thank you.

CHAIR ATAY: It's right now about 1:48 in the afternoon and we, we're able to establish phone communication with Ayrton Strauch, Hydrologist, with the Department of Land and Natural Resources with the Commission on Water Resources Management. And thank you for being there.

WR-25 INTERGOVERNMENTAL AGREEMENT WITH U.S. GEOLOGICAL SURVEY, PACIFIC ISLANDS WATER SCIENCE CENTER, UNITED STATES DEPARTMENT OF THE INTERIOR (CC 18-209)

CHAIR ATAY: This here agenda is on WR-25. It's relating to an intergovernmental agreement with the U.S. Geological Survey, Pacific Islands Water Science Center, United States

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Department of the Interior, and, Members, the Chair's understanding is that this, this agreement is very similar to other agreements that the Department of Water Supply has entered into with the USGS for stream gauges in other County streams. And this agreement is for the purposes of constructing gauges at Kanaha streams. And the Department enters into separate agreements with the USGS for USGS to monitor the data the gauges can gather, and Chair, I attended a public meeting last week held by the Commission on Water Resources Management out in Lahaina, and testifiers had requested that 2 million gallons of water be released into Kanaha Stream. And as CWRM deliberates and decides on instream flow standards for West Maui streams, these gauges may prove useful for both the Department and community to be monitoring how much water the County is taking from Kanaha Stream. Alongside the Department we have present today Travis Hylton, Associate Director of the USGS Pacific Islands Water Science Center as well as on the phone, once again, we have Ayron Strauch, Hydrologist with the DLNR, CWRM. If there are no objections the Chair will designate these two gentlemen as our resource people pursuant to rule 18(A) of the Rules of the Council.

COUNCILMEMBERS VOICED NO OBJECTIONS.

CHAIR ATAY: Thank you. Thank you, gentlemen, for assisting the Committee today, and I'd like to start off by asking the Department of Water Supply to provide their opening statements. Ms. Blumenstein?

MS. BLUMENSTEIN: Thank you, Chair. Yes, we are requesting an intergovernmental agreement to have a gauge installed in Kanaha Stream, as Chair mentioned. We are diverting water from Kanaha Stream which is treated at the Lahaina Water Treatment Facility serving the community of Lahaina. There used to be stream gauges in several of, streams on Maui on the west side too, back from the early 1900s. A lot of these were mainly there for the needs of the plantation, the sugar cane plantations, and many of them have been inactivated for various reasons. So, there has not been an active gauge in Kanaha Stream for at least the last 50 or 60 years. So, while the Department we know how much we divert 'cause we can measure that in the flow into our water treatment facility, we do not have a continuous record of how much the natural stream flow or stream flow during different conditions such as low flow and drought. So, having the stream flow gauged would both help the Department to know what the long-term trends and flows are. Whether we can rely on this resource for domestic municipal needs, and it would also help the Commission in their establishing numerical instream flow standards for Kanaha Stream. So, we're asking the bill, the subject bill would allow us to enter into an agreement with USGS to first have the gauge installed at a cost of about \$37,000, and then with a similar ongoing monitoring agreement that we do with USGS for various other type of stream gauges, deep monitor wells, and rainfall gauges, that sort of nature. Yeah, that's all I have.

CHAIR ATAY: Thank you, Department, for this update. I'd like to turn to Mr. Hylton. Do you have any opening comments for the Committee?

MR. HYLTON: No, Chair, I don't have any opening comments. We're just happy to be here in support of Maui Department of Water.

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CHAIR ATAY: Okay, and on the phone I'd like to turn to Mr. Strauch. Do you have anything you would like to add?

MR. STRAUCH: Yes. The Commission of Water Resource Management is working towards establishing interim instream flow standards for all the West Maui streams and we're basing our baseline hydrologic data on USGS statistics developed using what are called partial record gauging stations. That's point measurements and some statistical modeling with long term continuous record data. Having a real time, present day, continuous record that is developed by installing a gauging station on Kanaha Stream in particular will help not only make management decisions in real time for the County, but will allow us to assess water availability and water resources moving into the future. And with potential changes in climate, rainfall patterns, influencing surface water availability, especially on leeward sides of the island, we think it's really important to develop a robust network of monitoring stations and this would be one of the most important gauges.

CHAIR ATAY: Okay, thank you. With that, I'd like to turn to the Members on the floor. The floor is now open for any questions and discussions. Any Members got questions? Member King?

COUNCILMEMBER KING: Thank you, Chair. Yeah, I just wanted to ask a couple of questions. One is about the cost. Looks like there was...we're only talking about one or we're talking about two? 'Cause it looks like there's a little bit of participation by the Department of Transportation and just wondering why, what the Department of Transportation's position is in this and looks like they're covering one of the gauges but not the other, part of one of the gauges so maybe you can explain.

CHAIR ATAY: Department? Or...

COUNCILMEMBER KING: What is the interest of the DOT?

CHAIR ATAY: Either one. Department or...

MS. BLUMENSTEIN: I can start. I can start, thank you. The Hawaii Department of Transportation's interest is peak flows. So, they have not been involved in other stream gauge monitoring, but they are interested in this one, so that is in addition that's not part of the government agreement that we're establishing with USGS, but a separate one with USGS and Hawaii Department of Transportation.

COUNCILMEMBER KING: Yeah, just curious, what is the Department of Transportation's involvement in stream flow.

MR. HYLTON: The Department of Transportation, like Eva said, is interested in peak flows so they can do bridge design so they know how big the biggest flows they can expect are, flood flows going under bridges. So, that's their primary concern, and the reason that there's one charge there when there's two gauges going in, the two gauges will be

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measuring below the diversion. One on the pipeline and one in the streambed and they're interested in the cumulative total flow for the flood, so there's one charge there for the Department of Transportation.

COUNCILMEMBER KING: Okay, and how is that figured? I mean the participation. How's that percentage figured out?

MR. HYLTON: The stream gauge costs are developed each year based on the number of stream gauges that we're doing, and the total cost. They're averaged so that the stream gauges that are up in remote areas, that say need helicopter access for maintenance, costs the same as the ones that are in readily-accessible areas.

COUNCILMEMBER KING: Okay, no, I'm just wondering how they determine what the DOT's percentage of the cost is.

MR. HYLTON: The cost that's there is consistent with the installation costs for other . . . *(inaudible)* . . .

COUNCILMEMBER KING: Okay, so there's a precedence set?

MR. HYLTON: Correct.

COUNCILMEMBER KING: Okay. And then I'm assuming that this money is coming, is it coming from cost savings or I mean are we looking at needing a budget amendment?

CHAIR ATAY: Department?

MS. BLUMENSTEIN: These were available, actually we tried to move this in FY '18 already, but we do have funds, professional services for FY '19. So, they're already budgeted.

COUNCILMEMBER KING: It's already in the budget?

MS. BLUMENSTEIN: Yeah.

COUNCILMEMBER KING: Oh, okay, anyways, and are these permanent? These gauges?

MS. BLUMENSTEIN: Yes.

COUNCILMEMBER KING: Okay.

MS. BLUMENSTEIN: Yes.

COUNCILMEMBER KING: Okay. That's all my questions, Chair.

CHAIR ATAY: Thank you, Member.

COUNCILMEMBER KING: Thank you.

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CHAIR ATAY: Member Cochran?

VICE-CHAIR COCHRAN: Thank you. So, this, I was up there at the intake and you're, you got to helicopter stuff in? We just walked.

MR. HYLTON: No, ma'am, that's, I was saying for the all the gauges that we have Statewide. There are some that require helicopter access. This one would not.

VICE-CHAIR COCHRAN: But the cost is based on, 'cause I'm just reading the bullet point under the cost and it says helicopter sling loading of materials, so is that just the generalized description but not so much pertaining to this job --

MR. HYLTON: Yes.

VICE-CHAIR COCHRAN: --or item?

MR. HYLTON: Yes, I believe so.

VICE-CHAIR COCHRAN: Is that all that is?

MR. HYLTON: Yes.

VICE-CHAIR COCHRAN: Oh, okay. 'Cause I was like yeah you don't...and would it be your - CWRM, or DLNR or someone, USGS going up there monitoring and taking the counts?

MR. HYLTON: It would be USGS hydrologists.

VICE-CHAIR COCHRAN: Because I know Hans Michel, you know, does the clearing and maintains, and we pay him on the County's behalf to maintain, so he would not be the person taking the readings for you?

MR. HYLTON: No, no there's trained hydro-techs that take the, that maintain the gauges.

VICE-CHAIR COCHRAN: Okay. And, you know, I've read a lot of EAs, EISes, and just historical information of West Maui in particular, and at one time there has been documented, I think, 32 or 33 perennial streams flowing in West Maui. Is that, this may be for Ayrton, is this what we're looking to reinstate are all these streams or how's that? Is that a true account, Mr. Strauch, if you know?

CHAIR ATAY: Mr. Strauch?

VICE-CHAIR COCHRAN: I read throughout many documents 30, it has been known to have 32 to 33 free-flowing streams, perennial streams.

MR. STRAUCH: Can you repeat that? I can't...

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VICE-CHAIR COCHRAN: Yeah, okay. In west, okay, I've read documentations that west Maui has been known to have 32, I think, or 33 free flowing perennial streams, so is that the count you're looking to re-instate for West Maui?

MR. STRAUCH: We work stream by stream to develop interim instream flow standards. We're not, our goal isn't a set number. Right now, we're working in the Lahaina District of West Maui, not the entirety of West Maui. Na Wai Eha is being dealt with in a separate contested case hearing and then there are obviously additional streams on the north, northeast side of West Maui that we're not looking at, at the moment. Our goal is to establish interim instream flow standards to protect all of the recognized instream uses that occur in West Maui. So that, I mean, we're working stream by stream.

VICE-CHAIR COCHRAN: Okay, but sorry, and real quickly I am only referring to upper northwest Maui. I'm not talking about Na Wai Eha section. I can find the documentation that I've read through my kuleana information. I live in Honolua Valley. This is Elle Cochran. Hey, Ayron, and so that's where I got my numbers. Thank you.

CHAIR ATAY: Okay.

MR. STRAUCH: Okay.

CHAIR ATAY: Any other questions, Members? Okay. Some of the things since we have Mr. Strauch on, does the CWRM use the data from stream gauges solely for instream flow standards purposes? Or do you guys use it for other ways?

MR. STRAUCH: So, the data that are available through the USGS, this stream gauging station in particular will be, as I understand it, monitoring both in the ditch and below the diversion and the numbers added together will equal the natural flow above the diversion. So, we're getting three numbers for kinda the price of one and a half. So, we're getting, I mean, the County is getting a good deal I think. We will use the data as it comes in to evaluate in real time how much water is available, and how much water is being used, is the instream flow standard being met, and then as we do, conduct field work using, following up on what are called seepage runs, looking at surface water/ground water interactions. We'll have a baseline data that is coming in from the USGS in order to conduct that seepage run. We'll also be able to look at instream habitat for native biota and having real-time stream flow data is really important to evaluate how much habitat is available for a given flow downstream. So, yeah, it will be used by DLNR as the data come in, but also, we will, these are interim instream flow standards that we're working on developing. That means they're not permanent. They can be modified as needs change, as the climate changes, as conditions change. So, as we get more information and the Water Commission can reevaluate and make adaptive management decisions basically.

CHAIR ATAY: Okay. Thank you. I attended the meeting out in Lahaina and a lot of the testimony was focused on instream flow and in particular on instream aquatic life. Many of the community members were trying to encourage increasing the instream flow so that people can go back to sustainable levels of being able to gather opai, gather

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ooppu, at sustainable levels to feed the people, and so with interest I think the community was expressing definitely, hopefully, an increased amount of instream flow activities in all of the streams. This particular meeting is about Kanaha and currently right now my understanding is 100 percent of the flow is being taken out and utilized, and so with interest what would be the, you know, results of this gauge metering to see how we can determine, how can we get back to adequate instream flows. That's your projections of when we could get there?

MR. STRAUCH: If I understand you correctly, the so the interim instream flow standard will be set by the Commission soon. We predict probably in November. We're gonna host a Commission meeting on Maui to do that, or at least to propose an interim instream flow standard. The gauging stations, I believe USGS, you know, their...it's whatever they can, their timeline whether it's by employee time or equipment availability. In the coming months it'll be installed, I'm not sure when, you'd have to ask USGS.

CHAIR ATAY: Okay.

MR. STRAUCH: But, again, the station will be used by the public, by CWRM, by Maui County to evaluate how much is in the stream, how much is being taken from the stream, and how much is being put back into the stream.

CHAIR ATAY: Okay.

MR. STRAUCH: So, it's kind of a really important focal point where accurate data is gonna be necessary.

CHAIR ATAY: Okay, thank you for sharing that. Mr. Hylton, would you have anything that you would wanna add to that?

MR. HYLTON: Yeah, in terms of the timeline as Ayrton mentioned, we do need to do some permitting, stream channel alteration permit, but the State's obviously aware that we intend to install gauges there. So, but the timeline for getting the equipment in, that would be a relatively quick turn-around. We have the equipment within a week or so and it doesn't take long for these type of things to be installed.

CHAIR ATAY: Okay. Department, would you have anything else to add?

MS. BLUMENSTEIN: No, we're just asking that we can move forward with this one. The timing will not necessarily help exactly the establishment of the interim instream flow standards now, but as Ayrton said too this is such an important tool we need moving forward both for the Department so that we can gauge, pardon the pun, whether there's gonna be reliable surface water and looking at alternative resources too as we anticipate we won't be able to divert as much as we have in the past. So, time is of the essence, we feel this is really important. It's not gonna benefit the Department only, but all the users of the stream. Thank you.

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CHAIR ATAY: Thank you. Members, with that, you know, the Chair would like to entertain a motion...Member Cochran, you have any questions?

VICE-CHAIR COCHRAN: Chair, real quickly. Yeah, yeah I do. Real quick before we get your recommendation. So, Ayrton, it's Elle Cochran again, the, it was discussed at that meeting, the public meeting in Lahaina, about the 2 million gallons, is this...what is your take on that? Can you comment on that figure at all or...any comment?

MR. STRAUCH: I mean, I would maybe defer to Eva. If the medium flow in Kanaha is, I believe 3.17 million gallons and the County uses on average 1.65, but up to 2.1, you know, there's not a lot of wiggle room. That being said, County domestic water use is not a higher priority than instream uses so we will work to balance the instream and off-stream uses and understanding that this is an important drinking water supply and maybe we work with the County on a timeline to get alternative sources, ground water sources in particular, up and running and maybe in the three-year timeframe so that we can eventually restore more of the stream.

VICE-CHAIR COCHRAN: Okay, alright. Well, very good. Thank you for your comments. Did Ms. Blumenstein have a...no? If you had anything to add.

CHAIR ATAY: Department, you wanna add anything?

MS. BLUMENSTEIN: Thank you. Yeah, yeah we, that's our understanding. I was just looking at the Ayrton's report, the IIFS assessment report, so yeah medium flow Q50 in a million gallons a day for Kanaha is 3.17 and what we're more concerned over is generally low-flow conditions 'cause in drought that's when the stream needs the water the most, we need the water the most, and everyone else. And the drought conditions which is defined as Q90 is 2.65 million gallons a day, and peak capacity we can take that much which we generally take about 1.7, so we don't know what that exact balance is gonna be, but we recognize that we need to start diversifying our portfolio of water supply long term.

CHAIR ATAY: Right.

MS. BLUMSTEIN: Not just because of IIFS, but also long-term projection, so decreased rainfall and decreased stream flow, et cetera. Thank you.

CHAIR ATAY: Thank you.

VICE-CHAIR COCHRAN: Yeah, thank you.

CHAIR ATAY: Member Cochran, you had further questions? Follow up?

VICE-CHAIR COCHRAN: No.

CHAIR ATAY: Members, any follow-up questions before I give my recommendation? Okay, so the Chair will entertain a motion to recommend passage on the first reading on the

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ADJOURN: 2:12 p.m.

APPROVED BY:



ALIKA ATAY, Chair
Water Resources Committee

wr:min:181018:ja

Transcribed by: Jasmin Andrion

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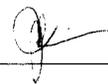
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CERTIFICATE

I, Jasmin Andrion, hereby certify that the foregoing represents to the best of my ability, a true and correct transcript of the proceedings. I further certify that I am not in any way concerned with the cause.

DATED the 6th day of November 2018, in Kahului, Hawaii



Jasmin Andrion