

1 BOARD OF WATER SUPPLY

2 COUNTY OF MAUI

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10 REGULAR MEETING

11 THURSDAY, FEBRUARY 26, 2009

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16 Held at the Department of Liquor Control Conference

17 Room, David Trask Building, Room 105, Wailuku,

18 Maui, Hawaii, commencing at 9:12 a.m.

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28 Transcribed from the audio recording by Gaye

29 Hayashida, Commission Support Clerk, Department of

30 Water Supply, County of Maui.

1 A P P E A R A N C E S

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3 BOARD MEMBERS:

4 Lee Aldridge, Chair

5 Carl Holmberg, Vice Chair

6 Michael Howden

7 Kui Lester

8 Kelli Myers

9 Phyllis Robinson

10

11 STAFF PRESENT:

12 Jeffrey K. Eng, Director of Water Supply

13 Edward Kushi, Jr., Deputy Corporation Counsel

14 Ellen Kraftsow, Water Resources and Planning
15 Manager

16 Herb Chang, Engineering Program Manager

17 Gaye Hayashida, Commission Support Clerk

18

19 OTHERS:

20 Gary Elster

21 Michael Victorino, Councilmember, Maui County
22 Council

23 Carl Freedman, Consultant, Haiku Design

24 Kelly McGinnis, Executive Assistant to
25 Councilmember Joseph Pontanilla

26 Paul Mancini, Attorney for Appellant

27 Susan Burns, Appellant

28 Scott Burns, Appellant's Spouse

1 CHAIR ALDRIDGE: Let's call the meeting to order.
2 This is a regular meeting of the Board of Water
3 Supply. It is Thursday, February 26, 2009.
4 Members in attendance include Kui Lester, Vice
5 Chair Carl Holmberg, Michael Howden, Phyllis
6 Robinson. We're expecting Kelli Meyer soon.
7 Members absent and excused include Marion Haller,
8 Scott Luck and Ted Yamamura. Announcements? Are
9 there any announcements?

10 MS. HAYASHIDA: Just one. Just a reminder for the
11 Financial Disclosure Statements from board members.
12 I know this is like, it's due April but just..

13 CHAIR ALDRIDGE: Oh, oh, I gave you mine, right?

14 MS. HAYASHIDA: No, you don't.

15 CHAIR ALDRIDGE: Oh, that's right. I don't have
16 to.

17 MS. HAYASHIDA: Yeah, you don't have to.

18 DIRECTOR ENG: She's not worried about you.

19 (laughter)

20 DIRECTOR ENG: There's others here..

21 (laughter)

22 CHAIR ALDRIDGE: I'm already gone..

23 (laughter)

24 MS. HAYASHIDA: It is due April 15th. So just a
25 reminder. Thank you.

26 CHAIR ALDRIDGE: Approval of Minutes. Minutes of
27 January 22nd, 2009; any comments or corrections
28 board members? Anybody read 'em?

1 MEMBER HOWDEN: You.

2 CHAIR ALDRIDGE: I did.

3 MEMBER HOWDEN: You always do.

4 CHAIR ALDRIDGE: But I have no corrections or
5 comments. Do we need an approval on the minutes?
6 Do I get a motion from anybody?

7 VICE CHAIR HOLMBERG: I so move.

8 MEMBER LESTER: Second.

9 CHAIR ALDRIDGE: We have a motion, any second?

10 MEMBER MYERS: Second.

11 MS. HAYASHIDA: Kui, Kui made the second.

12 CHAIR ALDRIDGE: Right. All those in favor?

13 (a chorus of ayes)

14 CHAIR ALDRIDGE: Ok, so moved. Testimony from the
15 public? I'm not gonna read this but we have some
16 public testimony and we normally allow 3 minutes
17 for the testimony but we can allow more if it's
18 necessary. We have Mr. Gary Elster; am I correct
19 in your pronunciation?

20 MR. ELSTER: That's correct.

21 CHAIR ALDRIDGE: Gary.

22 MR. ELSTER: Thank you. I'm Gary Elster. I was
23 involved in environmental issues with the Kihei
24 Community Association for a number of years; so
25 today I'm speaking as a private citizen. I came to
26 speak about drought and conservation. Initially I,
27 I thought about the issue of drought and I wondered
28 if all of us are assuming that drought continues

1 for a few years and then it's over and everything's
2 fine. I don't know if all of you are familiar some
3 of the work done by science, scientists in recent
4 years in the western United States, where to their
5 chagrin, they found out that historically below,
6 behind last 50 or 100 years, they found from tree
7 rings and what not that there had been historically
8 droughts lastly a longer than any of 'em had
9 planned for. When we lived up in the Lake Tahoe
10 area, they studied redwood rings and found that the
11 4 or 5 year drought could have gone on for 30 or 50
12 years and frightened everyone since the reservoirs
13 were then out of water. So, when we talk about
14 drought I think we need to change our thinking in
15 that particularly with global warming, drought may
16 be a lot different or this may be the norm. We
17 don't really know and we'll find out, hopefully not
18 from the wrong standpoint. I think our director
19 needs some tools that he doesn't currently have.
20 Right now all he has is a bended knee and asks for
21 conservation, and I think we need to change and to
22 get people thinking that water is our most precious
23 resource. It's, everything else we can import
24 though we shouldn't but water is not sustainable.
25 If we don't protect it there's no other place to
26 go. I just want to start out with a few anecdotes
27 that focus what I think are the way citizens look
28 at water. We for one, in moving into a new home

1 removed the developer installed grass and put
2 synthetic turf in it. Our neighbor across the
3 street said that's very nice looking but why would
4 you spend that money when water's so cheap? His
5 next door neighbor probably never figured out how
6 to change the developer installed ah, ah, water,
7 ah, whatever device. So her water sprinklers run
8 twice a day. The way the developer originally put
9 them in, you know in new lawns. And our neighbor
10 down below one day filled a large kiddie pool for
11 her, for their daughter who used it for about 40
12 minutes and then he proceeded to dump it out. And
13 last but not least of my anecdotes is, a friend of
14 mine who owns a large piece of land up in Kula, who
15 runs his sprinklers almost all the time so that if
16 the director ever imposes a mandatory cut-back
17 he'll be back to normal levels. Now, we need to
18 change all of that thinking and the way we do it is
19 through economics. And I know that this Board
20 recommended a tiered water rate and it went from
21 the council and it didn't pass. The council raised
22 water rates a little bit. We need that. Our water
23 rates are cheap even compared to the private
24 companies. Kaanapali Water's low rate is about our
25 high rate. And that's up to 12,500 gallons;
26 they're at \$3.53 and above that they're \$5.05.
27 What, why do private water companies know better
28 than public. Well, we need to change the thinking.

1 My suggestion after looking at all this is that we
2 have a four tier system but not exactly the one
3 that can solve recommended. I think that the 3rd
4 tier should be essentially cut in half and that the
5 top half of that become a fourth tier and
6 everything above and, substantially higher rates,
7 way high to deal with water wasters. And, and I
8 think that people once they get the concept, you
9 know with gasoline prices, when they went way up
10 people started learning how to conserve gasoline,
11 and when they way back down a lot of those people
12 continued to conserve 'cause they learned how to
13 conserve. And that no longer is just an economic
14 sin. I think we could create a 4 tier system and
15 to boot, energize the director's programs for ah,
16 ah, water conservation. My suggestion is that we
17 create that tiered system with substantially higher
18 rates and use that revenue from the higher rates
19 that is, I, I hope that those people who waste a
20 lot of water will learn to conserve but if they
21 don't that revenue could be used to fund an
22 incentive program to give people tools to conserve.
23 Whether it's synthetic turf or whether it's water
24 saving devices or drip irrigation, etcetera,
25 etcetera. I would suggest a one time only program
26 funded out of this excess revenue to energize that
27 program, to make it happen, to give people this is
28 what's gonna happen you learn this, switch off your

1 water like you do your electric and you use that
2 money to, and we will help you change the way you
3 do things, change over. After that one year I
4 would suggest that excess revenue go into capital
5 improvement fund to fund things like pipelines for
6 R-1 water. I know that the Water Department
7 doesn't currently have authority over that but none
8 the less, I think that we should move in that
9 direction. Stop putting R-1 water into the ground
10 that goes out and destroys our reefs, our oceans
11 and what not, so would be a win-win program. And
12 for your information, Carl and I have been working
13 together on this for a couple of months and we have
14 gone around and talked to council members. We met
15 with all but one so far, and we have found support
16 for a tiered water rate to discourage water wasting
17 throughout, throughout the council. I think
18 there's support for it. What we need now are some
19 tools to make this happen. My understanding,
20 correct me if I'm wrong, is that the, the
21 Department currently is restricted to revenue to
22 match its, its cost. I want to see that changed so
23 that excess revenue could go for this incentive
24 program and or capital improvement program that I
25 mentioned. We need to, in that 4th tier program, we
26 need to come up with a, with a, not exception but a
27 rule that permits, so we don't hurt multi-family
28 housing, permitted multi-family housing, condos,

1 apartments, hotels and so. That's where
2 consultants come in. That's over my grade level to
3 design that, so that that's reasonable, they're not
4 put out of business. I think we'll have the
5 support of the resort industry. They, they need to
6 know that they have consistent water available to
7 them and what, recognize everyone's gonna have to
8 pay higher water rates to make sure we have
9 sustainability. We need to get into the budget
10 process. This is a rates issue and I was told by
11 the chair that this whole issue needs to get into
12 the budget process. That's what I have to say.
13 Let's change the way, let's change the way people
14 think. Let them understand that to be sustainable
15 we have to have water recognized our most precious
16 resource and there's no pipeline, nobody's gonna
17 come save us and we have to stop thinking of oh,
18 well we can pump right up to our aquifer's ability
19 to pump, no. We should look at that as a place to
20 save, save water for a non-rainy day. Thank you.

21 CHAIR ALDRIDGE: Thank you, Mr. Elster. Appreciate
22 your coming here. And let me, let me say on behalf
23 of the board that we appreciate your citizen
24 involvement in this 'cause we have been very
25 supportive, all these board members here, very
26 supportive of water conservation. We've pushed for
27 a 4 tier rate system, we've pushed conservation

1 measures and unfortunately not all of them have
2 gone pass through the county council.

3 MR. ELSTER: I think this is the year...

4 CHAIR ALDRIDGE: Well...

5 MR. ELSTER: Mr. Chairman, that it can be done...

6 CHAIR ALDRIDGE: It could..

7 MR. ELSTER: If we can energize this group and go
8 to the council, let 'em know. I'm gonna continue,
9 Carl and I are gonna continue to work on getting
10 all the community groups to support this. And I
11 think we will get that support.

12 CHAIR ALDRIDGE: I think the one challenge you face
13 this year though is that money is gonna be hard to
14 come by from the citizens to pay for the higher
15 rates and so you need to keep that in mind as well.

16 MR. ELSTER: I don't think that the citizens we're
17 talking about are gonna get affected at all. I
18 don't see any reason to change lower rates, the
19 lower rates...

20 CHAIR ALDRIDGE: Oh, good.

21 MR. ELSTER: The lower tiers. And the ones that
22 are wasting water at that upper tier...

23 CHAIR ALDRIDGE: Are the ones that will pay for it.

24 MR. ELSTER: The ones that we wanna target,
25 exactly.

26 CHAIR ALDRIDGE: Yeah. I think we're very much in
27 agreement with that.

1 MR. ELSTER: I hope we can just make some, take
2 some action. I know government doesn't move that
3 quickly but I'm hoping that we can move that
4 quickly this year.

5 CHAIR ALDRIDGE: By the way, let me add one
6 anecdote too. I had the privilege of serving as
7 the chief engineer for Contra Costa Water District
8 in Northern California. I joined that organization
9 in 1977, right as they had one of the worst
10 droughts in California. Actually probably not
11 worst than the current one they're in but at the
12 time one of the worst. And you point to an
13 interesting scientific investigation. One of those
14 was of a tree that grows in the White Mountains;
15 this is the mountain range that parallels the
16 Sierra Nevadas; the bristle cone pine, about 4,000
17 years old and a study of the growth ring patterns
18 in the bristle cone pine revealed that there were
19 droughts in California and Nevada basically, that
20 lasted nearly a hundred years in the past. And so
21 God knows what we face in the future. Global
22 climate change aside, climate's always changing.
23 We don't know what the norm is. We have a hundred
24 years of history, of measurements at best. So you
25 know, I think we have to face, we have to be
26 prepared for the worst consequences. So, thank you
27 very much.

28 MR. ELSTER: You're very welcome. Thank you.

1 CHAIR ALDRIDGE: We also have our distinguished
2 Councilmember Michael Victorino here. Mike, did
3 you want to present something or were you here to...

4 COUNCILMEMBER VICTORINO: Just to update if I may.

5 CHAIR ALDRIDGE: Ok, thank you very much.

6 COUNCILMEMBER VICTORINO: Thank you for the
7 testifier early and just to get the record
8 straight, Mike Victorino, County Council, chair of
9 the Water Resource Committee. And I'm here today
10 to update the board on a number of issues, one of
11 which has been discussed, the water rates. We will
12 be taking a look at that this, ah, next week's
13 meeting. We're gonna take a look at that. We're
14 also gonna take a look at what you're gonna get
15 presented later this morning, a Water Use and
16 Development Plan. But what we've been able to
17 achieve in the committee is basically, thanks to
18 the Department, to Mr. Kushi from Corp Counsel, Kim
19 Willenbrink, we've got the water rules, Upcountry
20 meter rules, and the drought rules, right; sounds
21 like the 3, yeah; codified and approved by the
22 committee and will be coming to the full council
23 next week Friday. It is my hope that that can be
24 approved so then for the first time in many years
25 the Department will have a set of rules for which
26 they can operate under, legally. Not just because
27 that's the rules they had to operate with. And I
28 think Jeff and the Department has done a great job

1 over the last few years and the prior
2 administration whatever, you know it was difficult
3 to work without, what I call rules, to engage
4 yourself in. So, I'm very thankful for all the
5 assistance by many people and more importantly I
6 think it's a step in the right direction. I'm very
7 excited to get this done so that we can move after
8 budget to the Water Use and Development Plan
9 because that will be our next project, our next
10 focus point, yeah. Once that is completed then a
11 number of other things will be coming forward and
12 we're working very closely with the Department. My
13 feeling is it's not my committee, it's our
14 committee. It's not my island, it's our county.
15 You know it's just the way I work with everybody
16 and you guys know. Most you worked with me when I
17 was here. And I feel that way even more strongly
18 there because we have some power to get the job
19 done. So it's my hope that with between working
20 with Na Wai Eha and some of the other groups that
21 will be coming forward, work with me, whether it's
22 Waiale, whether it's Waikapu, whether it's Maui
23 Lani, whatever sources, whatever, whatever we're
24 gonna work on water, it's gonna be our effort, ok.
25 That's the first and foremost thing I'm keeping in
26 the forefront, yeah. And there's a lot of things
27 to be done. Rules, hopefully next week Friday,
28 passed. Once they're done, it's not in though, we

1 still can go back and in fact we will be going back
2 to amend and change; there's things that the
3 committee wanted to do. Before I got really bogged
4 down in changing things, I wanted to make sure we
5 had the rules accepted. It was passed and now we
6 can go back and make those changes, if it's
7 important enough to be made, yeah. The Upcountry
8 water issue, I can tell you there is many fronts
9 for which I know the Department is moving, the
10 administration is moving and I am trying to get
11 personally involved in trying to get storage,
12 source development in the Upcountry area; 'cause
13 one of my biggest dreams in the next few years is
14 to work on our water meter list. I would love to
15 come before any group and say, no more, done.
16 That's my biggest dream, beyond all the other
17 dreams I have which sometimes I know everybody
18 thinks, oh, you're crazy bugger but that's ok.
19 You're not putting that down verbatim, oh ok.
20 Anyhow, any questions as far as the rules and as
21 far as the, oh well, anything we've completed to
22 this point, any questions?

23 VICE CHAIR HOLMBERG: Well, if you could just
24 remind me, the water rules, the Upcountry meter
25 rules, there was a 3rd area?

26 COUNCILMEMBER VICTORINO: Drought. The drought
27 rules. Those were the 3.

1 MEMBER ROBINSON: I have a question. What we were
2 just presented with in terms of tiered water rates,
3 excuse my ignorance, I'm fairly new on the Board of
4 Water Supply so, is, I, I heard, I heard it
5 mentioned that it has to become part of the budget
6 process and these are rules for the Department
7 which are different than setting tiered water
8 rates, is that correct?

9 COUNCILMEMBER VICTORINO: Yes, absolutely yes.

10 MEMBER ROBINSON: I'm correct on that. So, we're
11 not too late to begin working on tiered water rates
12 if we, if we so chose, in terms of this process.
13 I've heard you mention changes but I don't think
14 the changes are in regards to what you're working
15 on now. Is...

16 COUNCILMEMBER VICTORINO: Yeah, well, the changes,
17 the Water Resource Committee right now is focused
18 on certain things like the Water Use Development
19 Plan, the rules and all these other areas. We will
20 start the budget process in 2 weeks for the
21 council. We will be getting the mayor's budget
22 sent down, for which the Water Department is one of
23 many departments' budgets that will be coming
24 forward. This is when the, the committee takes a
25 good look at that and can, if they so choose, to
26 put in another tier if we want to. Now, whether we
27 do it or not, it's not, I'm not gonna tell you

1 that, because that really is got to be between the
2 work, between us and the Department.

3 MEMBER ROBINSON: Of course.

4 COUNCILMEMBER VICTORINO: You know, I'm not gonna
5 say, yeah, we're gonna do this, we're gonna do
6 that, because we wanna work in conjunction with
7 them. But I think we, we agree with, with the
8 conceptual presentation. I've spoken about this
9 for years, right. When I was on the board I said I
10 was an advocate for that 4th tier. But it has to be
11 done right, because agreed, we don't want to hurt
12 the little guy you know, at the expense of you
13 know, like for example, multi-family homes and he
14 mentioned legal, well, let me be honest there's a
15 lot of illegal ones out there. And how is that
16 gonna affect them? Whether it's Moloka'i, whether
17 it's Lana'i, Hana, Kahului, Wailuku, I don't care
18 where, Upcountry. So, you know we gotta be
19 sensitive how we do these things but the time is
20 right to look at it. The time is right to bring it
21 forward and I think, I think most of the council
22 members and, and as you heard we all kinda thinking
23 along the same lines. This is the time to make the
24 change. Because water is a precious commodity, and
25 if we're gonna just waste it that's one issue, you
26 know, and it's not to, and I don't want water rates
27 to be tied to this is the way we're gonna get more
28 development because that is not what I want. We

1 want, myself per se, we want rates that fit the
2 user and that we will have the benefit of
3 conserving water for a long period time. And
4 there's a lot of ag issues, oh, there's many more
5 issues that we don't wanna really get into but
6 we're just talking residential rates, really, would
7 be the area we'd be truly looking at.

8 MEMBER ROBINSON: Thanks for answering me.

9 COUNCILMEMBER VICTORINO: All right.

10 CHAIR ALDRIDGE: Thank you, Michael.

11 COUNCILMEMBER VICTORINO: I'm always glad when not
12 too many questions...

13 (laughter)

14 COUNCILMEMBER VICTORINO: I get nervous, you know I
15 looking at Michael Howden and Michael does yeah...

16 (laughter)

17 COUNCILMEMBER VICTORINO: 'Cause I love the man.

18 MEMBER HOWDEN: No, I, I, I'm not gonna ask you
19 about public trust waters.

20 COUNCILMEMBER VICTORINO: There you go. But we've
21 had that discussion many times. Thank you much and
22 I look forward to working with all of you in future
23 and I will try to attend meetings when I can you
24 know, 'cause I think it's something important that
25 I know what you're doing and you hear from us. And
26 to the 3 that are leaving us, I say mahalo for all
27 you years of service. Thank you very much and I
28 hope we can find you something else 'cause I don't

1 wanna see you guys disappear you know what I mean.
2 Let's go find them another job or something, you
3 know.

4 CHAIR ALDRIDGE: Yeah, I'm all for that.

5 COUNCILMEMBER VICTORINO: But yeah...

6 (several members speaking at the same time)

7 COUNCILMEMBER VICTORINO: Don't have to be water
8 either. There's a lot of things, we got a lot of
9 boards and commissions. But thank you all 3...

10 CHAIR ALDRIDGE: Thanks, Michael.

11 COUNCILMEMBER VICTORINO: For all your years of
12 service. It's been an honor working with you and I
13 hope to continue working with you in some other
14 facet within this community. Thank you.

15 CHAIR ALDRIDGE: Thank you. Alright, Other
16 Business, item A, Discussion and update on the
17 Water Use and Development Plan.

18 MR. FREEDMAN: Good morning everyone.

19 CHAIR ALDRIDGE: Morning.

20 MR. FREEDMAN: My name is Carl Freedman. I'm a
21 consultant to the Department of Water Supply and
22 I've been working on the Water Use Development Plan
23 as you know. This has been going as a long term
24 effort. We've been trying as much as we can to get
25 some...

26 COUNCILMEMBER VICTORINO: Excuse me, Mr. Chair. I,
27 I don't mean to interrupt 'cause this is your
28 meeting but is it all right if the ladies sit so

1 they could just face and instead of trying to turn
2 around. If everybody could sit this way or turn
3 the chair around, yeah?

4 CHAIR ALDRIDGE: Sure, sure.

5 COUNCILMEMBER VICTORINO: And if you don't mind I'd
6 like to sit here...

7 MR. FREEDMAN: Yeah, that's fine.

8 COUNCILMEMBER VICTORINO: If you guys don't mind,
9 please.

10 CHAIR ALDRIDGE: Oh no, please.

11 COUNCILMEMBER VICTORINO: Thank you. If you guys
12 wanna..that way easier for guys to look..Kelli, maybe
13 easier for you guys to, instead of stretching your
14 necks, yeah. Come on, come on. Ok, go ahead.
15 Sorry.

16 MR. FREEDMAN: So, as you know I've been giving
17 presentations as part of the public process and
18 I've given several presentations to the water
19 board, one recently. And what I've tried to do
20 with today's presentation, I've left a bunch of
21 these slides in that you've seen before and I'm
22 gonna, so I'm gonna be flipping through some of
23 these slides pretty quickly just as a matter of
24 reminding and review. But what I'd like to focus
25 on a little bit today is first, just an overview of
26 where we are with each of the districts. And then
27 on the Central District, which is the front running
28 district, I have some specific recommendations that

1 I put together in a draft that I think is about
2 ready for release, I'm hoping any day now that
3 that'll be out. So I wanted to kinda put what's
4 new is some things instead of Carl does this
5 analysis and Carl does that analysis, it's more in
6 the form of here's some finite recommendations. As
7 an effort to kinda frame the issues for the next
8 phase that we're going into with the Water Use
9 Development Plan ultimately is to turn it into an
10 ordinance. So between all the analyses and coming
11 up with wording for an ordinance, I put together a
12 section on recommendations to kinda frame up what
13 the policy issues are. And so I wanna take, and so
14 I'm gonna be glossing over some stuff today. You
15 can always ask questions but that's where I'm gonna
16 go here. So, first we're gonna talk about an
17 overview of each district process and then a little
18 on the Central and Upcountry and then where we are
19 for next steps. So, the road map here that we're
20 following and I don't know if you can read all this
21 but this is a page from the Water Commission's
22 framework on updating the state water plan. But
23 basically we start with some information gathering
24 stages, setting planning objectives, a demand
25 forecast, identifying resource options and then a
26 kind of intense economic integration process where
27 we put all these resources in sequences to see how
28 each, how we can meet water demands and what it

1 costs for each one of these, and ultimately down
2 for some plans and it's kind of an iterative thing
3 which we've iterated several times on some of
4 these. But those steps I've kinda put across here
5 to look at all the different districts. So, Lana'i
6 has pretty much gone through the whole process.
7 It's in a separate line up here because it was,
8 it's not being done by the same integrated resource
9 planning process as the others, but it's in the
10 final review stage. Central Maui and Upcountry
11 have progressed pretty much through the, the
12 process. So, we're in, ready for final review on
13 those. East Maui, West Maui and Moloka'i are in
14 the process now of setting objectives and
15 identifying the resources and putting the candidate
16 strategies together. So we're in the analysis
17 section here; public process and analysis section
18 in those districts. Lana'i has a draft plan under
19 review by the Lana'i water committee. The final
20 draft is now being completed. There are some
21 outstanding issues that are being discussed. And I
22 think June is the anticipated date. I'm not, I'm
23 not involved directly in, in Lana'i. Central
24 District, we have a draft which is any day now
25 ready for release basically and it includes looking
26 at a range of energy cost scenarios. As you know
27 energy prices have done a big roller coaster this
28 last year. It's been hard to keep up with them in

1 terms of analysis. But we've ended up by, we have
2 a range now instead of trying to keep changing
3 them. We've looked at some additional options and
4 strategies, verifications of feasibility,
5 especially when you get down to recommendations,
6 the whole you know, the issue of viability and
7 timing becomes more important. And, refinements
8 and most importantly I think in terms of form and
9 what I'm gonna talk about today, it includes some
10 finite discreet recommendations. The next process
11 steps are under consideration and there's several
12 things, I was just talking with Councilor Victorino
13 about this, but there's several issues about what
14 the next steps are. One is form, ultimately this
15 has to be an ordinance. What is the form gonna be?
16 One has to do with how it's gonna go with process.
17 Does this go first to the Board of Water Supply and
18 the Water Commission? And it has to go to a
19 Commission of Water Resource Management. What
20 order that happens in needs to be determined. And
21 also, as a matter of substance, to what extent is
22 this whole document a statement of policy and to
23 what extent is it a rule? And that has to do with
24 the form, form there. So, those are things that we
25 need to take up as well as the substance. We've
26 got some other issues to resolve coming forward
27 'cause we getting down to the end of the process.
28 The Upcountry District is right on the heels of

1 Central; we've pretty much done the public process
2 and the analysis. The draft for that is being
3 completed and by March, wanna have that before the
4 Department for the internal review by the
5 Department. West Maui, we've had 3 water advisory
6 committee meetings. And as I explained we're kinda
7 in the analysis process of figuring out what all
8 those strategies are and I'm putting together a
9 model, an economic model like I already have for
10 Central and Upcountry for analysis of those issues.
11 Moloka'i, we've had 6 meetings and they actually
12 come on the tail of about a dozen meetings of the
13 whole process that's been going on. Moloka'i, of
14 all the districts, is the most intimately involved
15 in their water issues. When I go to Moloka'i I am
16 not the expert. And the Moloka'i community has
17 enunciated their objectives and what's important to
18 them. They've got a bigger grasp of the big
19 picture. I mean, I am humbled by, by that group.
20 So, Moloka'i's a completely different place and we
21 may, the plan may look different for several
22 reasons, so we could talk about. Our next meeting
23 is next, is couple weeks from now, March 12th. East
24 Maui, we've had a, one set of meetings out in
25 Keanae and Hana. And coming back from that we have
26 our homework to do. I mean, we introduced the
27 Water Use Development Plan process, we talked about
28 objectives and issues but there are some real big

1 pre-existing conflicts and contested issues there,
2 diversions of stream water is a big issue there,
3 the impacts of some new wells on existing users are
4 big issues. There's an acute water shortage when
5 we went out there, we heard testimony of people who
6 were taking their kids to Hana to take showers
7 because they didn't have any domestic water
8 supplies. Springs that they had been counting on
9 for their whole lives are now drying up. I mean
10 it's some unprecedented thing. So, it was an
11 education. I went out there, I was the bad guy,
12 the haole, malahini consultant guy, you know, the
13 face of the Water Department. But basically, what
14 we heard there is we need to do our homework and go
15 back and look at all these plans. They've done a
16 lot of planning out there. We went out there for
17 the introductory meeting; we realize we have to go
18 back and do some homework and not waste anybody's
19 time out there. They're also very knowledgeable.
20 Ok, final candidate strategy reports. Now, I'm go
21 through the Central here. And so I presented this
22 before so I'm gonna kinda just go through this as
23 kinda review 'til I get to the recommendations.
24 But here are the 5 final candidate strategies.
25 Now, I'm gonna go through each one of these
26 individually. And all of them include some common
27 things. Like there's some near term things, some
28 projects that are already committed. It's the long

1 term options that are really being differentiated
2 here. You know, what are the smartest things to do
3 in the long range. This is really a long range
4 planning process. And then there's some general
5 options that are included in all of them. I'm not
6 gonna go through...here's the list of the committed
7 and near term options, the general options. Now in
8 the general options, up at the top is conservation
9 and demand side management. And actually the
10 analysis tells us that that's very cost effective.
11 And so that's actually a featured form of all of
12 the candidate strategies and the last one, the last
13 strategy in particular, it's an expanded more
14 aggressive version there. So there's a demand side
15 management portfolio in all of them. Also water
16 recycling using existing recycled water from the
17 wastewater plants to displace potable use. We
18 have, that's not included in all of them but as
19 featured strategy in the last one. So, the Na Wai
20 Eha, it's like a family of strategies, so this is a
21 general strategy. It'd be one or more water
22 treatment plants using water from Na Wai Eha
23 streams. We looked at Waiale Water Treatment
24 plant, pretty much already designed; a Waihe'e
25 Water Treatment plant which turns out to be maybe a
26 better location but there's no existing design for
27 it; and storage reservoir options. The first 2
28 kinda assumes that you're gonna have base flow

1 access. You don't have to build a storage
2 reservoir. And the last one would say, would say
3 if you do have to build a big storage reservoir
4 then of course the economics are very different.
5 And on the map these would be taking water from
6 the, from the Waihe'e stream system and the 'Iao
7 stream system. These are existing divergence. The
8 Waihe'e plant would put some thing on grade above
9 and outside of the urban area and the Waiale Water
10 Treatment plant is proposed right down here in the
11 Waiale area. The storage reservoir is not located
12 in particular but it'd be some place consistent
13 with the location of either of these. So the
14 analysis looked at how this stream water would be
15 allocated between parties, 'cause that's necessary,
16 taking into account anticipated in-stream flow
17 standards. We did several mass flow analyses that
18 looked at daily stream flows, reservoir levels that
19 would result from different assumptions, gave the
20 tables of what the reliability under different
21 reservoir capacities in different yields. We
22 looked at the cost and we came up with a bunch of
23 cost analyses. So these are the things that
24 presented before and I'm gonna spare you a lot of
25 these bar charts today, 'cause you've seen it
26 before, but basically the black line is the bottom
27 line in terms of looking at the present value of
28 operating the whole Central District water system

1 for 50 years. So it includes the red bars which
2 are the variable costs, the operating costs, and
3 the capital costs. And the sum of them is here.
4 So, this is the zero point, this is the northward
5 expansion which is kinda what we compare everything
6 to. Here's water treatment using Waiale or Waihe'e
7 kinda thing with a cheap water base flow, no
8 reservoir. Here's if we have to pay 90 cents per
9 thousand gallons, which is what the Wailuku Water
10 Company is asking for. Here's if we build a 300
11 million gallon reservoir and don't have to pay
12 anything for the water because we're capturing
13 water that's not going to Wailuku Water Company.
14 And this is what happens for a \$1 billion
15 reservoir, which is one of the proposal that was
16 brought to us by the advisory committee.

17 CHAIR ALDRIDGE: Carl, can I ask you a quick
18 question? You got costs at 75 per barrel oil I
19 suppose..

20 MR. FREEDMAN: Right.

21 CHAIR ALDRIDGE: Yeah, and obviously that's
22 fluctuated..

23 MR. FREEDMAN: Well, here the next slide there's
24 125.

25 CHAIR ALDRIDGE: Ahhh, ok.

26 MR. FREEDMAN: See.

27 CHAIR ALDRIDGE: I was just gonna ask you that.

1 MR. FREEDMAN: Yeah. Basically you know, last year
2 2008, energy prices started out in the 50 to 60 and
3 then they went up to 140 and now they're down to 40
4 again. So, what I've done is I've got 2 scenarios
5 in here. I had to boil it down to some finite
6 number. So, I've got 75 and 125, those are my 2
7 scenarios. In the long run, 40 is not right. And
8 all these, I'm, I'm projecting these at 1% above
9 the cost of inflation is the cost of energy. So 75
10 at 1% is not too far off from 40 at 2% which we're
11 gonna see some more escalation in the near term.
12 It's anybody's guess. I stopped guessing. I've
13 already guessed a few times and I passed out these
14 charts about the cost of water in each tank. I
15 wanna bring them all back and next time I'm just
16 gonna put the number of kilowatt hours, you know
17 for each tank. Everybody can do their own
18 multiplication. Northward basal groundwater
19 development would be a series of new basal wells
20 going on the north, crossing Makamakaole Gulch to
21 the north half of the Waihe'e Aquifer and then
22 progressing up towards into the Kahakuloa Aquifer
23 and I would emphasize not in Kahakuloa Valley but
24 the Kahakuloa Aquifer goes all the way up to the
25 very top of the island. That's up here. And here
26 is north part of Waihe'e Aquifer and then pass the
27 Kahakuloa area up into the north part of the
28 aquifer. Eastward basal groundwater development

1 included new basal wells in the Haiku, Honopou and
2 actually went on to look at Waikamoi Reservoirs.
3 We looked at a Haiku well field at 1500 feet, a
4 well field at 1000 feet. We went out to the
5 Waikamoi Aquifer well field; we kinda skipped over,
6 after going out and hearing from Honopou, we
7 skipped Honopou; there's too many issues there and
8 too many existing uses for us to build a bunch of
9 wells right above all the existing uses. So, if
10 we're going there, we're basically going past there
11 to Waiakamoi. Then maybe I'm asserting some policy
12 here but, but that's pretty much where we got with
13 the public process. And then another thing we
14 looked at was taking the Waikamoi Aquifer well
15 field pumping into the ditch and using the ditch to
16 transport it to Central and then a water treatment
17 plant, because one of the big expenses was the
18 pipeline that goes all the way out there. So, here
19 you see these on here, here's the Haiku well field,
20 here's the...there's the Honopou, we're going right
21 by, Honopou Aquifer. I should've drawn the
22 aquifers in here perhaps. Here's the Waikamoi
23 Aquifer; be building a series of wells and
24 transporting, connecting to the Central system.
25 And of course here's a water treatment plant.
26 Here's the end of the Hamakua Ditch, so it would go
27 into the Lawrie Ditch, no, it's Lawrie Ditch all
28 the way, excuse me. Lawrie Ditch all the way to

1 here and so we looked all those and so here's our
2 reference plan. This is our northward plan to
3 compare everything to. Here's our Haiku well field
4 at 1500 feet, at a 1000 feet is the most economical
5 of all of these. So, that's what I've advanced as
6 the eastward plan is Haiku at a 1000 feet, that's
7 the frontrunner. Waikamoi, you can see these are
8 the capital costs associated with the transmission.
9 If we go with a ditch system we still have a lot of
10 capital costs for transmission, we also operate a
11 power, a water treatment plant. You don't save
12 money by pumping into a ditch and then having to
13 treat it basically. And then, there's your \$125.
14 The differences are changed but the results don't
15 really change. Brackish water desalination, would
16 be building a brackish you know, desal plant in the
17 Central area and I just have that posted here. It
18 could be anywhere in this area that we fund as
19 well. And then this was the popular one from the
20 community; was large scale water recycling and
21 conservation. It would be meeting new water needs
22 by maximizing recycled water use and conservation
23 measures. So, the conservation programs for
24 example have like 5 or 6 times the budget and they
25 get 3 times the results of the conservation
26 programs that are in all the other, all the other
27 strategies. And, this would be taking, the way I
28 framed it was to be taking a pipeline from the

1 existing Kihei Water Treatment, Wastewater
2 Treatment Plant, running it down to the Wailea
3 area, kinda hotel row. And the idea from the Water
4 Department would be, the value to the Water
5 Department is we would be displacing potable use of
6 water that's currently being used for non-potable
7 purposes, outdoor irrigation primarily. And that
8 pipeline would probably carry a lot more water than
9 that. It would probably carry water for displacing
10 other non-potable water sources too. But the value
11 of the Water Department would be freeing up potable
12 water by displacing potable needs. So there they
13 are. If you compare 'em all with one another, the
14 cheap thing on the block is Waiale Water Treatment
15 Plant if we can get cheap water, and if the Water
16 Commission allows an allocation of water because
17 there are 2 proceedings. One is for the in-stream
18 flow standards and another designation is a surface
19 water area. So as you'll see in the
20 recommendations the, this looks inexpensive but you
21 start looking at some other options, there's \$125 a
22 barrel. Here's if you don't get that allocation,
23 if you have to build a 300 million gallon
24 reservoir. And the other difference here, this
25 assumes we can get 1 million gallons of potable out
26 of the Kihei Wastewater Treatment Plant. And over
27 here, if you only get 1 million gallons a day then
28 it doesn't look quite as good. And you can see

1 there's the demand side management for the, over
2 and above the demand side management in these.
3 These are just comparing differences in costs. So,
4 I wanna, I said I was gonna stay away from the bar
5 charts 'cause I go on. So I'm gonna flip through
6 these but here's the bottom line. All those bar
7 charts comparing these options to one another, but
8 you gotta realize that all these things are
9 expensive, every single one of 'em. We're not, you
10 know we kinda ran out of all this water that piles
11 up on the isthmus; we have these deep aquifers that
12 we can pump out, you know. We've run out of that
13 water and the next thing is more expensive. So new
14 growth in the system and I did some analysis of
15 this. It's about, for the Central system, it's
16 about \$10 per gallon per day for new demand, or
17 about 6,000 per residential service. And the up,
18 and remember the up, the system development fees,
19 we have about \$2,000 in there, 'cause it's a \$6,000
20 for a new meter, 2,000 of it is source. The
21 Upcountry system, it's higher. We're talking 9 to
22 \$11,000 is the capital cost to, for the Water
23 Department to develop new source for each new
24 meter, ok. So...

25 DIRECTOR ENG: Carl?

26 MR. FREEDMAN: Yeah?

27 DIRECTOR ENG: On that's, I have seen those
28 numbers...

1 MR. FREEDMAN: Yeah.

2 DIRECTOR ENG: For...

3 MR. FREEDMAN: Yeah.

4 DIRECTOR ENG: So for Upcountry, that's based on
5 groundwater...

6 MR. FREEDMAN: This is based on, those specific
7 numbers...

8 DIRECTOR ENG: Uh huh.

9 MR. FREEDMAN: I'll actually get to a chart that
10 shows that.

11 DIRECTOR ENG: Ok.

12 MR. FREEDMAN: This is turning out to be longer
13 than I wanted.

14 CHAIR ALDRIDGE: That's ok.

15 MR. FREEDMAN: The, but basically that scenario was
16 based on the assumption that we're just gonna keep
17 pump, whenever we needed a new water, we'll pump
18 another backup well. And then we'll supply and
19 pump as necessary. So actually on the capital cost
20 side that's actually on the low side, because the
21 other ones like the reservoir things are cheaper
22 variable costs but the capital costs of reservoirs
23 are high and how much it's gonna cost in system
24 development fees depends on well, what are we gonna
25 get from federal government assistance and you know
26 how it's gonna be financed.

27 DIRECTOR ENG: And this is all net present value?

28 MR. FREEDMAN: This is all, yes it is...

1 DIRECTOR ENG: Ok.

2 MR. FREEDMAN: Exactly.

3 CHAIR ALDRIDGE: Carl, can I, can I follow up, I
4 have a follow up question on that. Yeah, thank
5 you. Nine to eleven thousand per new service,
6 philosophically, and maybe that's not a question
7 for you but, do new services include all the
8 services Upcountry that are on the current
9 waitlist? Are those considered new services as
10 water becomes available to them?

11 MR. FREEDMAN: Well...

12 CHAIR ALDRIDGE: To me it seems like they're not
13 new services. They've been deferred services.

14 MR. FREEDMAN: Ok, what I did and I have a slide
15 later on that shows it, is I'm, you know to do all
16 this analysis I have a capacity expansion,
17 production costs, it's simulation model that
18 simulates the operations of this system out into
19 the future, right. And it looks at each water
20 system on the Upcountry system and transfers
21 between them, keeps track of all the costs. What I
22 did is I took 200,000 gallons a day and I added it
23 in to the forecast for each the systems
24 alternatively. So, how much more does it cost to
25 operate the Upcountry system if you have 200,000
26 gallons extra on the Upper Kula system? How much
27 would that much on the Lower Kula system? Then I
28 ran the model out and as a result of that the

1 operating costs go up, the pumping requirements go
2 up. But what this is measuring is the fact that
3 because there's that extra amount of growth the
4 dates that you need new booster pumps, new wells,
5 that you need new resources, that gets bumped up a
6 little bit. So, what you're seeing is, for to
7 serve an additional amount of water demand, and I
8 haven't broken it down just to who, whether it's a
9 waitlist, non-waitlist, whatever. The waitlist
10 people would be part of that. Anything that does
11 not have a water meter now would be part of that
12 incremental demand. So, I'm not really trying to
13 say anything about who it is or whatever, I'm just
14 trying to come up with the marginal, long run,
15 marginal capital costs is what an economist would
16 cost it. What is it cost on the margin for one
17 extra service? Which is really the question of how
18 you might wanna, that's one approach to setting
19 system development fees. What is the incremental
20 cost to the system by a new customer coming on to
21 the system?

22 CHAIR ALDRIDGE: Ok.

23 MR. FREEDMAN: And I'm not actually suggesting that
24 that's what you should set..

25 CHAIR ALDRIDGE: Right.

26 MR. FREEDMAN: As a system development fee. But
27 when you do set system development fees you got to
28 realize that it's not covering the bill right now.

1 You know it's not, in the long run the costs you're
2 gonna get, the amount you're gonna get from your
3 existing system development fees aren't gonna cover
4 the bills and costs of the new capital improvements
5 you need on these systems. I guess that's really
6 the bottom line.

7 CHAIR ALDRIDGE: Ok. I understand how you
8 established it. So, then if, if and when it's time
9 to establish those new service fees it's gonna be a
10 political and philosophical decision whether or not
11 those existing users that have been waiting for
12 water are part of new development or you know
13 they're subsidized in the form of..

14 MR. FREEDMAN: That's an important policy aspect
15 of..

16 CHAIR ALDRIDGE: Right.

17 MR. FREEDMAN: For a rate design issues, yeah,
18 yeah.

19 CHAIR ALDRIDGE: Ok, thank you.

20 MR. FREEDMAN: I think there's a consultant on
21 board to the Water Department working on designing
22 or setting system development fees, I don't, I'm
23 not familiar with the exact status of that, but.
24 Ok, now new demand growth, one of the things we're
25 doing about that is conservation programs. So, I
26 just wanted to kinda frame this, 'cause this is
27 another budget issue, right. So, if we have a
28 conservation, the conservation set of programs in

1 there, it's about, for the Central District, it's
2 about \$1 million a year for 5 years. So the net
3 present value is \$4.3 million for that. If you
4 spend that money on the conservation, you reduce
5 the capital and operating systems by 9.4 million.
6 So this is a cost effective thing, expenditure,
7 right, from the Department's point of view. The
8 capital requirements are reduced by 4.2 about what
9 you're spending and then of course the operating
10 costs with the low energy price scenario are 5.2
11 million. They'd be more with the higher cost
12 energy scenario because of the additional pumping
13 costs. So, there you got 'em. What we do then,
14 you know because what I, the analysis that I do
15 gives things like water availability, reliability
16 and costs. But we've got a big long list of, of
17 things to consider in choosing a plan. So we use a
18 chart that's like this. It has all the different
19 objectives and all the different flavors of the
20 different things and there's a copy of the actual
21 chart for the Central District up there. In the
22 draft I have, I've broken it up, unfortunately you
23 can't print something like that well so in the
24 draft that's about to come out, it's broken up into
25 sections but the matrix is in there. And as a
26 result of that I've come up with some
27 recommendations. So this is what I wanna run by
28 here. The recommendations that are in the Central

1 District plan include, that address these sections,
2 short term resources, long term resource
3 acquisition, regulatory mechanisms, resource
4 protection and restoration, energy efficiency and
5 production, and water allocation policies. Now,
6 the last one, well, I'm gonna go through these
7 individually and what I'm gonna do, what I'm gonna
8 show you right now are just the titles of each of
9 the recommendations, so you can get an idea and you
10 can all look forward to the draft if you're really
11 excited about it. The short term resources would
12 be to diligently acquire all the committed and near
13 term stuff we've got on the books. We gotta do
14 that diligently to meet our short term needs on the
15 Central system. We're gonna optimize production
16 from existing resources, accelerate leak detection
17 and repair, and explore demand response options.
18 And by that I mean we need to have some rules and
19 procedures in place so if the Department needs to
20 say, hey, no, no lawn watering and no street
21 washing for the next 2 days 'cause we have a well
22 out. The Water Department needs some authority to
23 do that kind of thing but that would a valuable
24 resource for the Water Department. That's what
25 that is. Ok, long term resource acquisition would
26 be monitor the Na Wai Eha proceedings, and I kinda,
27 there's one on interim, the Water Commission has 2
28 of these, one on interim stream flow, one on

1 surface water management designation and there's a
2 public utilities commission contested case on the
3 Wailuku Water Company's rates. In order for the
4 Waiale Water Treatment Plant for example, to go,
5 that, these issues need to be resolved first, all
6 right, is basically. So we wanna defer but be
7 prepared to re-start the Waiale Water Treatment
8 Plant negotiations. Commission a study of
9 alternative site upstream, an alternative to that
10 Waiale reservation. And I could, I've been asked
11 to stop going into these paragraphs, but each of
12 these is a paragraph or 2 or actually a page in
13 some cases on the recommendations. Implement
14 substantial conservation programs, verify the
15 feasibility of expanding use of the Kihei Water
16 Treatment Plant for recycled wastewater and if push
17 comes to shove go ahead with it, you know if it
18 pans out. And monitor the ongoing feasibility and
19 preserve options for the other long term options
20 going northward or going to Haiku. And it
21 discusses you know some contingencies in there.
22 You know, you don't need to make all these
23 decisions right away, but you gotta make sure all
24 the ducks are in line so that you can move when you
25 have to move. Regulatory mechanisms would be to
26 maintain or expend the inverted block rates..

27 MEMBER HOWDEN: Carl, can I ask you a question..

28 MR. FREEDMAN: Yeah.

1 MEMBER HOWDEN: On the long term resource..

2 MR. FREEDMAN: Yeah.

3 MEMBER HOWDEN: There's no mention of the use of
4 eminent domain to...I mean does that work in
5 anywhere, I mean 'cause you're, you're dealing with
6 the Wailuku Water Company, you're dealing with
7 HC&S. We keep cutting the sweetheart deals with
8 these corporations.

9 MR. FREEDMAN: Well the idea of eminent domain and
10 I think we've gone before, the council for example
11 once approved \$7 million to acquire Wailuku Water
12 Company's sources and things. But right now, these
13 are all before the Water Commission in terms of how
14 we're gonna allocate the water and so in a way you
15 could go and you could try and take those resources
16 but until the Water Commission decides you know,
17 where the water is going, as you know it's a public
18 trust resources as you've told me many times.
19 Right now the konohiki, you know, the Water
20 Commission is decider about some important issues
21 about that. So, I probably should have a
22 discussion and I have it written down again about
23 eminent domain but it's not a recommendation to
24 proceed with eminent domain at this point. If
25 you'd like to see that then it would be good to
26 hear that comment so you know, in some way.

27 MEMBER HOWDEN: Yeah, because that's, you know the
28 trick in that is that they say, oh, we're not

1 giving you, we're not selling you public trust
2 waters we're delivering you public trust waters.
3 So to own the delivery system it would seem that
4 would be abuse of the county.

5 MR. FREEDMAN: Right, right. Ok, you've told me
6 that before and you deserve your paragraph...

7 MEMBER HOWDEN: Thanks, man.

8 MR. FREEDMAN: Ok, but it's not in there with
9 apologies.

10 VICE CHAIR HOLMBERG: I might just, I might just
11 make an extra addendum on what you said, that the,
12 it, that the, whether it's worthwhile waiting for
13 the commission to rule rather than condemn is
14 dependent on how long do we think it's gonna take
15 them to do that after all Waikamoi Ditch decision
16 had its, the, the follow up on that hasn't finished
17 yet and that's quite a ways in the past.

18 MEMBER HOWDEN: Yeah, that's a very good point.

19 MR. FREEDMAN: Right, right. Yeah, it'll be a
20 whole paragraph and you'll have a chance, you know
21 you'll have a chance to make comments. Ok, let's
22 see, where were we? I think, maintain or extend
23 inverted block rates, review system expansion,
24 financing policy, that's what we talked about a
25 minute ago about sufficient funding for your
26 capital program. You need to have sufficient funds
27 to, to do any of these things. Establish water
28 source development contracts standards and

1 establish clear criteria for determining water
2 availability and need for water resources. And as
3 you know right now, a lot of these things come in
4 as developer wells, developer projects. We just
5 need clear standards so we don't get into trouble
6 in the end about bickering at it. And if we do
7 want developer stuff to happen, let's get a clear
8 market, a clear, what, what are the rules of games
9 on so they could, the developers can count on it
10 and step up to the plate and know that there's
11 something known about it. Resource protection and
12 restoration, I better check in here for timing. Am
13 I pushing my envelope already? Yeah, I am. Ok.
14 Resource protection and restoration have all been
15 acknowledged as very important. The Water
16 Department has been very supportive and the county
17 has been very supportive. Watershed protection,
18 wellhead protection, stream restoration would be
19 supporting the Water Commission's in-stream flow
20 amendments especially for the East Maui streams and
21 supporting stream restoration measures and
22 programs. But out in the public process, we're
23 hearing about this loud and clear and so it's
24 getting into the recommendations. If anybody
25 thinks otherwise, I haven't had A&B or anybody come
26 out and tell me yet that they don't want to see
27 this in here so it's in there. And, but I think
28 it's important to table that for, for the

1 discussion because it's an important policy issue.
2 Protection of cultural resources, energy efficiency
3 and production would be to establish a full-time
4 Department of Water Supply Energy Resource
5 Coordinator position. That would pay for itself,
6 many times over. Identify and implement
7 opportunities for energy efficiency, load
8 management, identify and implement energy
9 generation opportunities, which we have some on the
10 Upcountry system so, I don't know if that
11 discussion really needs to be on the Central draft
12 but it has to do with establishing a full-time
13 coordinator position. And the last one, establish
14 water allocation policies and in this area I am not
15 making specific recommendations. What's in the
16 recommendations is more of an expository treatment
17 of the subject, because we have to determine what
18 venues these allocations are going to be used in.
19 Are these rules for the Water Department in terms
20 of how the Water Department issues meters? Are
21 these policies before the Water Commission about
22 how they make their decisions about in-stream flow
23 standards and about reasonable beneficial use,
24 public trust use? We need to establish what the
25 venues for those are and the purposes and then you
26 gotta decide what form you want to state these
27 allocations. Is it going to be hierarchy of
28 priorities which says this is more important than

1 that is more important than that? Or are you gonna
2 say we're set aside this much for affordable
3 housing and this much for agriculture? Or are you
4 gonna say we're gonna allocate this source to that
5 use, this source to that use? Or are you just
6 gonna make general statements? Like there shall be
7 ridge to reef or makai, mauka to makai water flows.
8 So, this section really tries to table all that
9 stuff for discussion. And that's gonna be very
10 interesting. I look forward to the discussion but
11 I can't set those policies. These are big picture
12 policies that need to be set by the Water Board and
13 the Water, I guess by the council ultimately as an
14 ordinance. And, the Upcountry district, because of
15 time I'm just gonna go through very quickly. We've
16 got some similar things, the main options are
17 expansion of raw water storage is a big, big
18 storage reservoir. And we've looked at different
19 sites, different sizes and in those rounds we're
20 also looking at some environmental constraints we
21 have about some of the big ideas. It's easy to say
22 300 million gallon reservoir in the Lower Kula
23 system but when you go to site that and you start
24 talking about what we're up against in terms of
25 environmental considerations that's a major topic,
26 right. Full basal groundwater development, this
27 was something the Upcountry system is very
28 concerned about, reliability, they wanted to see a

1 strategy where even if the reservoirs went dry you
2 could serve all the needs of the Upcountry system.
3 So we priced that out. Limited growth with
4 extensive conservation measures; this one we, I
5 tried to do but it's really hard to characterize,
6 especially economically because what you're doing
7 is you're providing less services and so you do the
8 dollar cost of course it's cheaper but you know
9 it's hard, harder to evaluate with, with, from an
10 analysis point of view. Expanded Kamole Water
11 Treatment capacity and volume, and this would be
12 making improvements at the Kamole Water Treatment
13 Plant, not to actually take more water on a regular
14 basis but to increase the drought period capacity.
15 And so there are various options to do that and by
16 doing that you have to drill fewer basal backup
17 wells is the idea; for the same amount of
18 reliability. And the last one is actually what's
19 happening is what I call drill, pump and boost.
20 When you need a new well, you drill another well
21 and then you pump the well when you need it and you
22 provide enough boosters on the systems to get it up
23 to where you need it. And we compared all those
24 and we got these costs. I'm not gonna go through
25 them right now because of time but I will show you,
26 here's that 200,000 gallons on each of the systems,
27 right. So, here's, if you, here's your reference
28 thing. If you put 200,000 gallons on the Upper

1 Kula system, Lower Kula system, Makawao system or
2 Haiku system, these are the costs that result. And
3 it's these blue bars, the capital costs, that I
4 quantified for each system and that's where I got
5 the 14 to \$19 gallons per day and the 9 to, 9,000
6 to 11,000 range. And it's a range 'cause it's
7 different on different systems. And as I presented
8 last time we did an analysis of the wind farm.
9 Different, actually different, all kinds of
10 different wind scenarios up at Kamole Water
11 Treatment Plant. And that looks like that would
12 work. And the question is scale. And because we
13 thought a big water bill up there, I mean it's
14 millions of dollars a year for the water bill for
15 that one facility.

16 MEMBER ROBINSON: You mean the electric bill?

17 MR. FREEDMAN: Well, yeah, excuse me. The electric
18 bill. Thank you. Yeah. The water bill's big too
19 actually. Alright, and maybe I'm done, let's see.
20 Next steps, finalization and review of Lana'i Water
21 Use Development Plan. The next thing is public
22 review of the Central District finals. So, in the
23 next couple days, I'm hoping we're gonna have this
24 draft out and you all get it, you're on the mailing
25 list for the water advisory committees. If you're
26 not, I'm gonna make sure, I think, I think
27 everybody here is. So, you will be getting that as
28 a pdf file one of these days. Completion of the

1 Up, then I have the Upcountry version of that by
2 March. And proceeding with the next steps,
3 actually, proceeding with the next steps to make
4 the conservation programs go. Actually we need to
5 get some bids in, get some contract, actually get
6 some bids from implementers to harden up these
7 prices that I've been using as estimates. And,
8 then to proceed with West Maui, Molokai and East
9 Maui with the analysis and the public process.
10 And, comments, need to go to the, oh, there are
11 documents available and I don't have our website
12 but documents, comments need to go to the Water
13 Department. Ok? I didn't have Ellen Kraftsow's
14 email address. I thought that was, I saw this and
15 I thought that that's what this slide was, was an
16 email address for you. But get it to us anyway.
17 Send it to Jeff, send it officially through the
18 mayor, however you want to get it. But comments
19 need to come to them. It's ok to talk story to me
20 but you need to go to the Water Department to get
21 comments into the, into the process. And, my
22 apologies for how long it took, ok.

23 VICE CHAIR HOLMBERG: Another question if I might,
24 Mr. Chair?

25 CHAIR ALDRIDGE: Yes, yes.

26 VICE CHAIR HOLMBERG: You had mentioned this
27 specifically the Kihei Water, Waste Treatment Plant
28 and I, I'm all aboard using water that you've

1 gotten to reasonably clean standard, if I, I maybe
2 quoting Councilman Victorino incorrectly, but I
3 believe he had said that we are already using about
4 or actually consuming about 70% of the Kihei water
5 whereas it's the Wailuku Treatment Plant that's
6 basically injecting most of its water and I didn't
7 know if you had addressed that at all in the plan.

8 MR. FREEDMAN: Well, my understanding is that there
9 would be plenty of water available from the
10 existing characterization of the Kihei Water
11 Treatment Plant. In part because as these loads
12 grow so does the water treatment plant capacity.
13 But I don't think 70%, I don't..

14 VICE CHAIR HOLMBERG: Yeah, I don't know where that
15 came from. I can't back that..

16 MR. FREEDMAN: I verified my numbers not as
17 percentages but I was assured by you know, the
18 Department of Environmental Management that that's
19 available. But, and one of the reasons that the
20 recommendations says "commission to verify" is
21 because right now the Department of Environmental
22 Management is going through a review of the status
23 of that plant. They're worried because they
24 financed that plant based on future developer fees,
25 right. And, they're worried that the capability of
26 the plant may not keep up with that. So, they're
27 consultant is looking at, well, we can produce more
28 R-2 than we can R-1 and R-1 is the purer stuff that

1 you can actually distribute. So if their
2 consultant comes back and says oh, no it would take
3 more capital investment in the plant to produce
4 that amount of R-1 water well then the cost of this
5 plan then goes up. Then you need to say ok, well
6 do you just wanna give up on R-1 water and we're
7 just gonna do R-2 water now and re-inject it or if
8 we wanna go with R-1 then, then the plan changes.
9 So, what I've got in here basically presumes based
10 on my due diligence first basically that that water
11 would be available subject to this more recent
12 review and the other thing I have to say is what I
13 costed out was, was turns out to be a \$20 million
14 pipeline with the improvements all the way down to
15 Wailea, right. There may be cheaper ways to do it.
16 And I talked with Dave Taylor at Department of
17 Environmental Management. It might be possible to
18 take, intercept some of the water on the way to the
19 water treatment plant and put in one of these
20 little package unit, scalping it's called and
21 actually you know, the water doesn't have to go all
22 the way to the water treatment plant and then all
23 the way back. Let's catch it on the way with a
24 little package plant. But DEM doesn't want to do
25 that so does the Water Department want to do that?
26 Or maybe just the Water Department want to pay for
27 it? So I'm not getting into the inner county
28 department stuff, I'm just looking at the big

1 picture kinda thing that if the county somehow
2 wants to get it together to do these things what's
3 on, what's the incremental price tag?

4 DIRECTOR ENG: Another thing, Carl, Carl pointed
5 out to me, we still, we still need to verify how
6 much of that potable water can be displaced.

7 MR. FREEDMAN: That's right.

8 DIRECTOR ENG: He's indicating like 3 million
9 gallons of potable water being displaced for a
10 price tag of 50 million.

11 MR. FREEDMAN: Yeah but that, what I, the, the 3
12 million for 50 million..

13 DIRECTOR ENG: Full on.

14 MR. FREEDMAN: The reason that it was 50 million is
15 to displace 3 million gallons, you have to put all
16 these distribution laterals and feeders all over
17 Kihei. That can pencil out as much as the 20
18 million for 1 and 1/2 million. So what I've
19 actually got in here is, and then we can put the
20 feeders in later but I'm just looking at the main
21 trunk of the line down to real big users. But as
22 you say we have, I've done this, I did a GIS
23 analysis, I put all the water uses, I calculated
24 how much each of these big users was using and I
25 made an estimate of what they might displace.
26 That's not good enough to go on for 20 million
27 gallon investment, you know. It's good enough for
28 this kind of study but before you go ahead with it,

1 that study, as Jeff points out we're not just
2 verifying the water plant we're also verifying the
3 displaceable uses. Thank you.

4 CHAIR ALDRIDGE: Any other...

5 MR. KUSHI: Mr. Chair, I have some questions after
6 the members.

7 CHAIR ALDRIDGE: Ok. Any other...

8 MR. FREEDMAN: Oh, can I say one thing? You know,
9 the last time Ed asked me a really good question.
10 I don't think I gave him a good answer, which was
11 the economics of inner connecting the Upcountry and
12 the Central system. So, you got more than a
13 paragraph, you got a couple pages in there so. I
14 thought about addressing that issue so; because it
15 was a very good point. We had looked at that in
16 the candidate strategies, it wouldn't pencil out so
17 I didn't have it as a final candidate strategy.
18 Basically, like 2 systems that need water, you
19 can't solve that problem by interconnecting them.
20 Interconnecting them may serve some advantages but
21 it's not the solution to the, to the problem. So,
22 I have some draft in there to address that.

23 CHAIR ALDRIDGE: Any other questions, board
24 members? All right. Yes, Ed.

25 MR. KUSHI: A couple questions, Carl. In your
26 Upcountry area plan, you guys considered as a
27 strategy re-opening the H'poko wells?

28 MR. FREEDMAN: Ahhh.

1 MR. KUSHI: Was it ever brought up?

2 MR. FREEDMAN: Oh, yeah. Well, we looked at that
3 in the candidate strategies before the council made
4 an ordinance and then we looked at it again, it,
5 it's still in there even consistent with the
6 ordinance. What we looked at, we could pump water
7 from H'poko...

8 MR. KUSHI: As back-up?

9 MR. FREEDMAN: Well, actually we can pump it up
10 into the Hamakua Ditch, you know the Wailoa Ditch
11 flows to the, to the Kamole Four Bay where the
12 Kamole Water Treatment Plant is and after that is
13 the Hamakua Ditch, same ditch, different name. But
14 we, the pipeline already goes from Hamakua Wells up
15 the Four Bay, so with a little bit of extra effort
16 it can go another 50 yards and dump into the
17 Hamakua Ditch and then as a matter of trading then
18 we've got water to trade with Alexander and Baldwin
19 for water in other places, right, which might be
20 more water from Kamole. Now there are some limits
21 to what that gets you and there is a discussion of
22 that somewhere and I'm trying to remember whether
23 it's in, oh, it's in the Upcountry draft which you
24 haven't seen yet. Yes, there is a discussion of
25 that and also with the interconnection; it's
26 related to that, you know. It's a whole, there are
27 all these different issues. You know if we were to
28 build the Haiku wells up there, it's a real easy

1 shot to interconnect the system but it raises other
2 issues and it presents other opportunities so
3 that's discussed. But it isn't a frontrunning, I
4 think if we were to do the Haiku well field option,
5 it would probably be recommended to interconnect
6 the systems, because you just, you can get the
7 efficiencies. But what's discussed in the
8 Upcountry draft then is what the limits are on what
9 you can get out of those arrangements.

10 MR. KUSHI: The other question, Mr. Chair, as far
11 as the Central Maui plan, if you're going towards
12 the Haiku option...

13 MR. FREEDMAN: Yeah.

14 MR. KUSHI: Meaning, drill out there and you bring
15 it here, I understood that these are planning
16 documents, community plans, general plans and some
17 group is fiddling around with something now. I,
18 I'm not in the loop on that, but I remember seeing
19 the Kula Community Plan had a statement about
20 transferring water out of that district and
21 bringing it down. Does Haiku have anything like
22 that or have you guys looked at those planning
23 documents and how we would relate towards your
24 plan?

25 MR. FREEDMAN: Yeah. And one of the requirements
26 of the Water Use Development Plan is it's
27 consistent with the community and general plans.
28 And moving water from Haiku to Central is not

1 consistent with the Haiku-Paia Community Plans. Is
2 it Haiku-Paia?

3 MS. KRAFTSOW: Haiku-Paia, but the other thing is
4 that the Kihei Plan says that we will take water
5 from the east. So the plans themselves, the last
6 go around, were inconsistent. So we had to be
7 consistent with something that wasn't consistent
8 with itself.

9 MR. FREEDMAN: Yeah. But what we're looking for, I
10 mean right now, what we have a, there's a current
11 general island community plan update process going
12 on. And in the end, we're saying that's what we
13 have to be consistent with. 'Cause we're, this is
14 a forward looking plan. All of the assumptions we
15 got in here, forecasts for demographics, they're
16 all taken not from the last round but forward
17 looking into this new general plan. So, I think
18 that I have not stopped looking at things because
19 they're inconsistent but certainly what we need to
20 look at is ultimately with all of this, all these
21 assumptions that go in here, if the community plan
22 or the general plan makes big changes on where
23 growth is gonna occur or makes statements about
24 what shall happen with water then this would have
25 to be readjusted. But I have not backed off
26 looking at all the options because of the
27 statements in the East, in that, but we know that
28 they're there. We kinda, I'm trying to look at

1 everything, even though somebody's gonna squawk or
2 it might not be inconsistent otherwise everybody's
3 gonna get mad at me 'cause I didn't look at it,
4 right.

5 CHAIR ALDRIDGE: But you're looking at moving
6 targets too.

7 MR. FREEDMAN: Yeah. Quickly moving targets.

8 CHAIR ALDRIDGE: Yes.

9 MR. FREEDMAN: Yeah.

10 MR. KUSHI: Thank you.

11 CHAIR ALDRIDGE: Thank you, Carl. Any other
12 questions?

13 DIRECTOR ENG: Thank you, Carl.

14 CHAIR ALDRIDGE: Thank you, that was a very good
15 presentation. By the way, I assume this material
16 is gonna be on the Maui Water Website?

17 MR. FREEDMAN: I will get, I did not distribute
18 this.

19 CHAIR ALDRIDGE: Right.

20 MR. FREEDMAN: I totally forgot about that..

21 DIRECTOR ENG: I think it will be available real
22 shortly.

23 MR. FREEDMAN: So what I'll do, I will, I'll give a
24 pdf of this to, should I just put it on the
25 website? Or I can give a copy of the pdf.

26 MS. KRAFTSOW: The one that you gave me can just go
27 to Jacky if it's ready, if Jeff says it's ready to
28 go.

1 MR. FREEDMAN: No, no, no, not the Central draft...

2 MS. KRAFTSOW: It doesn't have to go, it has to go
3 to committee...

4 DIRECTOR ENG: Yeah, I think I'll look at the
5 Central this weekend real quickly.

6 MR. FREEDMAN: No, no, no. I'm talking about the
7 pdf, the power point.

8 MS. KRAFTSOW: Oh, the power point.

9 MR. FREEDMAN: The power point.

10 MS. KRAFTSOW: Yeah, oh yeah.

11 DIRECTOR ENG: Yeah, that's fine.

12 MR. FREEDMAN: The power point. I'll give you a
13 pdf of the power point. Ok.

14 DIRECTOR ENG: Is you Upcountry currently on our
15 website, the latest?

16 MS. KRAFTSOW: No.

17 DIRECTOR ENG: Anything?

18 MR. FREEDMAN: I don't know, you mean the power
19 points?

20 DIRECTOR ENG: No, just any draft.

21 MS. KRAFTSOW: There's...

22 MR. FREEDMAN: Yeah, the most recent, Upcountry is
23 the candidate strategy draft. And since the
24 candidate strategy draft it's all been power points
25 because they keep changing...

26 DIRECTOR ENG: Right.

27 MR. FREEDMAN: You know and so I had at least 3
28 water advisory committee meetings in Upcountry on,

1 that they've been power points and so the next
2 thing will be for the Central will be the draft
3 that you're reviewing.

4 DIRECTOR ENG: Uh huh.

5 MR. FREEDMAN: And the Upcountry will be by, to you
6 by March, which is like a few days, right.
7 Sometime in March and hopefully up by the end of
8 March.

9 DIRECTOR ENG: Good.

10 MR. FREEDMAN: Yeah, I'm thinking that you can have
11 that.

12 CHAIR ALDRIDGE: Thank you, Carl.

13 MR. FREEDMAN: You're welcome.

14 MEMBER ROBINSON: Thank you, Carl.

15 CHAIR ALDRIDGE: I see that the Burns' and Mr.
16 Mancini are here on the Burns appeal so we'll move
17 from Other Business and defer items from B to E and
18 move into appeals but first let's take a 5 minute
19 break.

20 DIRECTOR ENG: Oh, thank you.

21 (laughter)

22 (meeting recessed)

23 CHAIR ALDRIDGE: We're back on. We're on Appeals,
24 Item A, Appeal 07-03, an appeal by Thomas L.
25 Behnke, on behalf of John C. Behnke, Jr., M.D., of
26 the director's decision or order dated September 7,
27 2007 to deny their proposal to connect to a new
28 waterline to the department's water system to

1 provide fire protection to their subdivision
2 located at 150-170 Haiku Road. We have copy of a
3 letter from Mr. Behnke withdrawing their appeal. I
4 believe that the Department has negotiated an
5 agreement, is that correct?

6 DIRECTOR ENG: Yes, it has recently been executed I
7 believe the Behnke's are recording the document...

8 CHAIR ALDRIDGE: Great.

9 DIRECTOR ENG: At this time. I think we've
10 concluded that.

11 CHAIR ALDRIDGE: Ok, excellent. Good not seeing
12 this on the item list again. Alright. Well, Item
13 B, Appeal 07-05, an appeal by Susan Burns of the
14 Director of Water Supply's written decision or
15 order dated November 14, 2007, which decision or
16 order the Department delivered her proposal of the
17 Water System Improvement Plan as prepared by
18 Silversword Engineering. Presentation of the
19 Findings of Fact, Conclusions of Law and Decision
20 and Order by the Board of Water Supply. For this
21 matter the Board may go into closed deliberation.
22 We're gonna go into closed deliberations to review
23 the Decision that was prepared.

24 (at this time the Board closed the meeting and went
25 into deliberations)

26 CHAIR ALDRIDGE: Alright, we're ah, in the Appeal
27 No. 07-05, in the matter of Kuiaha-Pauwela
28 Homestead Subdivision, SD 91-8, Request for

1 Approval of Fire Protection System for Fire Flow
2 Purposes; tmk (2) 2-7-008-124 and 125, Haiku, Maui,
3 Hawaii. The Board has deliberated and has the
4 following Findings of Fact, Conclusions of Law,
5 Decision and Order. Mr. Mancini, we'll make a copy
6 of this available today.

7 MR. MANCINI: Yes, Gaye just gave me a copy.

8 CHAIR ALDRIDGE: Alright, great. I'm not going to
9 read into the record all the Findings of Fact. I
10 will however read the Conclusions of Law and
11 Decision...

12 MR. MANCINI: That will be fine, thank you.

13 CHAIR ALDRIDGE: Right, thank you. Conclusions of
14 Law. Based on the foregoing Findings of Fact, the
15 Board hereby enters the following Conclusions of
16 Law: 1. It should, if it should later be
17 determined that any of these Conclusions of Law
18 should be properly deemed Findings of Fact, the
19 Board so finds as to those facts. 2. That in
20 accordance with Chapter 14.11, Maui County Code,
21 the Board has jurisdiction over the subject matter
22 and the parties to this appeal. 3. That in
23 accordance with Section 14.11.010, MCC, Appellant
24 timely filed a notice of appeal of the Director's
25 decision dated November 14, 2007. 4. Pursuant to
26 Section 14.11.040, Maui County Code, the standard
27 of appeal for this matter is: "The Board shall
28 review the director's decision or order and, by a

1 majority vote of its entire voting membership, may
2 affirm the decision or order, or may reverse or
3 modify the decision or order if the board finds
4 that the substantial rights of the appellant may
5 have been prejudiced because the decision or is:
6 A. Based on a clearly erroneous finding of
7 material fact, improper procedure, or erroneous
8 application of the law; B. Arbitrary or capricious
9 in its application; or C. A clearly unwarranted
10 abuse of discretion." 5. While the 1992 Agreement
11 between the Baers and the Board required the
12 construction of water system improvements to provide
13 a fire flow of 400 gallons per minute ("Fire Flow
14 Requirement") if and when Lot 8 or 9, or both are
15 sold to any third party, non-family member, the
16 1992 Agreement did not specify nor limit such Fire
17 Flow Requirements to the public, departmental water
18 system, nor did the 1992 Agreement specifically
19 prohibit the consideration or use of a private
20 water system to provide and satisfy the Fire Flow
21 Requirements. 6. It is clear, however, that the
22 1992 Agreement did require improvements to provide
23 a fire flow of 400 gallons per minute. If
24 Appellant's proposed private fire flow system
25 cannot technically provide such a requirement, the
26 alternative would be to improve the Department's
27 public water system to satisfy the requirement. 7.
28 the Department's reliance and interpretation of

1 Section 2-11 of the Rules and Regulations of the
2 Department of Water Supply as requiring a
3 particular subdivision's domestic, irrigation and
4 fire be served totally by the Department's public
5 water system or totally by a private water system
6 is misplaced, and erroneous. 8. The Director's
7 decision in his March 22, 2007 letter to the
8 Appellant to not waive or delete the Fire Flow
9 Requirements, or to not consider transferring the
10 restrictions/requirements to a new, non-family
11 owner was proper, lawful and within the Director's
12 discretion. 9. However, the Board concludes that
13 the Director's decision as set forth in his
14 November 14, 2007 letter to Appellant's counsel to
15 not consider a private fire protection system to
16 satisfy the 1992 Agreement's Fire Flow Requirements
17 was based on a clearly erroneous application of the
18 law, which in this case, is the interpretation of
19 Section 2-11 of the Rules and Regulations of the
20 Department of Water Supply. 10. Any proposed
21 conclusions of law submitted by the Appellant or
22 the Department not already ruled upon by the Board
23 by adoption herein, are rejected, are rejected by
24 clearly contrary conclusions of law herein, or are
25 hereby denied and rejected. Decision and Order.
26 Based upon the Findings of Fact, Conclusions of
27 Law, the Board hereby grants the appeal of
28 Appellant, and reverse and modifies the Director's

1 decision as stated in his letter to Appellant's
2 counsel dated November 14, 2007, as set forth
3 below. It is therefore ordered: 1. Upon a re-
4 submittal by Appellant for approval of a private
5 water system to satisfy the 1992 Agreement's Fire
6 Flow Requirements, the Director shall review and
7 consider such a proposal, and approve same, if in
8 the Director's discretion, said system satisfies
9 the Department's health, safety and welfare
10 concerns. 2. In the event the Director does not
11 approve the private water system as proposed by
12 Appellant, the Director shall forthwith transmit
13 said proposal, together with any and all plans and
14 specifications, to the Department of Fire Control,
15 which thereafter shall have the sole and exclusive
16 jurisdiction to review, revise and approve said
17 proposal. 3. In any event, if a private water
18 system is approved to satisfy the 1992 Agreement's
19 Fire Flow Requirements, the appropriate back flow
20 prevention device or other mechanical devices shall
21 be require to be installed to prevent possible
22 contamination to the Department's public water
23 system. The Department or the Appellant may appeal
24 this decision and order in accordance with Section
25 16-102-70 of the Rules of Practice and Procedure
26 for the Maui County Board of Water Supply, and
27 Section 91-14, Hawaii Revised Statutes. The Board

1 approved this today, February 26, 2009 and I signed
2 it.

3 MR. MANCINI: For myself and my client, we thank
4 you for your time in all this.

5 CHAIR ALDRIDGE: You're welcome. Thank you.

6 MR. MANCINI: We appreciate it.

7 MS. BURNS: We would like to say thank you very
8 much for all your work here. We really appreciate
9 it. This has been a long road for us and it seems
10 like our lives have been given back to us now. We
11 really appreciate all your work. You're doing a
12 fantastic service for us and for Maui.

13 MR. BURNS: And I'll shake all of your hands but I
14 know you're busy so I'll thank all of you. Thank
15 you very much.

16 CHAIR ALDRIDGE: Thank you.

17 MS. BURNS: Thank you...

18 MR. BURNS: Appreciate your time.

19 CHAIR ALDRIDGE: You're welcome.

20 MS. BURNS: Really, really appreciate it.

21 CHAIR ALDRIDGE: All right, let's return to Item 6,
22 Other Business, 6B, Discussion regarding the
23 drought/water supply situation and its affect on
24 the Upcountry water system. Director Eng?

25 DIRECTOR ENG: Well, you know we're getting this
26 intermittent rain. It looks like it's coming at
27 least once a week which actually is kinda nice you
28 know, kind of replenishes the reservoirs, saturates

1 the ground enough so people don't irrigate so
2 demand had been under control. We haven't had to
3 run Kamole to pump it up. We've been fortunate to
4 just live off of our Lower Kula system to serve
5 Lower Kula as well as Makawao, Pukalani. So we're
6 saving a few bucks. We've been doing that over the
7 past couple of months. And you know, and little
8 bit of dreary weather past couple of days. The
9 trades have picked up. I'm hoping that it
10 continues for a while longer. The Wailoa Ditch
11 really fluctuates you know, drastically as you can
12 tell.

13 CHAIR ALDRIDGE: Yeah.

14 DIRECTOR ENG: But right now things are looking
15 pretty good Upcountry so, yeah we just got to take
16 advantage of it as long as we can. And this gives
17 us time anyway for Kamole. We're doing the retro-
18 fit for the, the latest membrane filters, state of
19 the art filters, retro-fit. We did that at Olinda
20 2 years ago. We complete Lahaina recently. So
21 we're now focused on the Kamole plant with that new
22 type of membrane so, that's what's going up
23 Upcountry. Everything will be fine. Overall for
24 Central and West Maui demands are under control.
25 And we've had some conservation going on for awhile
26 now and hopefully that trend continues. I kinda
27 sometimes though, little bit fears that maybe we've
28 gotten all the easy conservation from our

1 customers. You know you see kinda, if you look
2 like the latest, like last week's demands compared
3 to a year ago, you know we're kinda getting kinda
4 stable and pretty much equal so maybe we'll have to
5 get a little bit more creative down the road. I
6 like what you've suggested Carl, and what Gary has
7 too. Hoping down the road can look at, and rates
8 are the key; how to go about designing them, and
9 getting even the county to then understand it even
10 during difficult times like this, economic times.
11 We have to look at significant rate increases. We
12 are looking right now again believe it or not
13 budget still isn't finalized. The budget
14 presentation to the council which is in about 2
15 weeks is being tweaked, even this morning. But
16 we're looking, last time I looked at it a couple
17 days ago we're looking at about a 9.6% increase.
18 We try to keep it below 10. That is still being
19 tweaked. We're looking at other expenses and
20 there's just not, we're really fine. We're just
21 kinda have to go in step with the rest of the
22 county departments. We're still self-funding. But
23 I like in the future to be able to fund more of our
24 capital replacements rather than this \$3 million
25 per year. That'll be nice if even a couple million
26 dollars more per year out of our revenue and have
27 more money really devoted to conservation programs.
28 From the original budget that was submitted to me

1 by Planning earlier this year, we had to cut back a
2 bit because the first iteration of our budget we
3 were over 13% rate increase, we're looking at. So
4 I had to do some slashing to bring it down to 10 or
5 below and that kinda cut into some our conservation
6 plans. But hopefully in the future and that's
7 really just by educating the elected officials and
8 the public to support this and you're right I think
9 from your polls and polling the council members I
10 think they're all coming around. It's still, when
11 it comes down to the bottom line and they're
12 approving significant rate increases when the
13 camera is on them, will they do that? And that's
14 what I'm hoping will happen. So yeah, as far as
15 the demand and everything, everything's looking
16 really good overall.

17 CHAIR ALDRIDGE: And the demand's still lower than
18 last year at this time.

19 DIRECTOR ENG: Yeah, tweaking a little bit lower,
20 yeah, we're still..

21 CHAIR ALDRIDGE: Yeah, still a little lower but..

22 DIRECTOR ENG: We're still, yeah, yeah..

23 CHAIR ALDRIDGE: You would expect..

24 MEMBER HOWDEN: Plus it's been a lot cooler too,
25 Upcountry.

26 CHAIR ALDRIDGE: That's right.

27 DIRECTOR ENG: Right, yeah.

28 CHAIR ALDRIDGE: Yeah.

1 DIRECTOR ENG: Whole lot cooler.

2 CHAIR ALDRIDGE: Even if it isn't raining it's been
3 so overcast the grass isn't growing.

4 DIRECTOR ENG: Yeah, it's pretty saturated.

5 CHAIR ALDRIDGE: Well, I'm...ultimately I think
6 changing the rate structure and getting another
7 tier up in there and hitting the high, high users
8 is really gonna be where you'll see the real
9 conservation in the summer.

10 DIRECTOR ENG: Yeah, yeah, and looking at the,
11 creating separate classes you know, right now again
12 we just have the general rate class. I believe
13 down the road we should maybe separate the hotels
14 you know, the vacation kind of condos. I think we
15 could, they could pay a little bit more into.
16 They're the biggest customers and cause the
17 greatest demand. I know there's a lot of
18 protection of that industry but they can afford it.
19 Just the other week, I was just doodling around
20 with a little calculation, I was actually preparing
21 Holly to, to talk about the impacts to the hotels
22 'cause we had proposed, wasn't a significant
23 increase, but at that, see because of their demand
24 even though we have the 3 tiers, on the first day
25 of the month they're in the first, I mean 3rd tier
26 already. But really what, I, I use this when I was
27 in the private sector, when I had a PUC hearing in
28 Kaanapali. All the hotels guys are there at the

1 public hearing challenging me. So I always
2 computed on what the increase represented in cents
3 per day per room. So I think for our latest
4 increases for the, for let's say 500 room hotel, it
5 comes out to about 9 cents per day per room. So,
6 it's not a hit.

7 MEMBER ROBINSON: It's not significant so yeah.

8 DIRECTOR ENG: So when I do hear that from visitor
9 industry or others I can at least defend our
10 position. I think that they can afford that, yeah.

11 MEMBER HOWDEN: Was...

12 CHAIR ALDRIDGE: Do we have any idea, Jeff, how
13 many of the rooms, I mean using that as a measure
14 of the number in the hotels, how many rooms on the
15 island actually, hotel rooms actually are using
16 potable water, meaning how many of the resorts
17 actually use potable water for irrigation?

18 DIRECTOR ENG: I'd say the majority of them.

19 CHAIR ALDRIDGE: Majority of them do?

20 MEMBER ROBINSON: Really?

21 DIRECTOR ENG: 'Cause even Kaanapali, there is R-1
22 water available. And I've worked with Steve
23 Parabolicoli to bring that in and god, must've been
24 around the mid-90's but that was limited to just
25 the golf courses and the resort common area, 'cause
26 that was connected to the golf course irrigation
27 system. So, even there all the hotels use potable
28 for everything. They would like to get that

1 reclaimed water but they have to get more storage.
2 They would need to pressurize the system and do a
3 number of things. And then right now in Wailea,
4 I'm not quite familiar, they may have so-called
5 non-potable wells for their golf course and maybe
6 their resort common areas. I'm hoping that's the
7 case too. But actually on the properties
8 themselves, I would think they use solely our
9 potable water in Wailea.

10 CHAIR ALDRIDGE: So, the landscape right around the
11 rooms and all that area is all...

12 DIRECTOR ENG: Anything probably on that side of
13 the, the, the roadway is probably our potable
14 water.

15 CHAIR ALDRIDGE: Right. I didn't realize that.

16 DIRECTOR ENG: Yeah, I suspect. Kinda like
17 Kaanapali, same thing. Anything on that side of
18 the roadway, makai is off the public or the private
19 water system there.

20 CHAIR ALDRIDGE: And that would take a lot more
21 capital improvement to make, convert that to R-1
22 water.

23 DIRECTOR ENG: Well, you know the Kihei...

24 CHAIR ALDRIDGE: The golf courses are obvious.
25 They're separate from...

26 DIRECTOR ENG: Yeah, but they may argue, "well we
27 have existing so-called brackish non-potable wells,
28 why do we need to do anything else?"

1 CHAIR ALDRIDGE: Yeah.

2 DIRECTOR ENG: That'll be their argument but you
3 know the hotels would want it for their, it may be
4 big savings. But again, even with Carl pointing
5 out my questioning him is that, it shows up in the
6 Central Maui strategy of expanding the reclaim
7 water. Again, for \$50 million maybe 3 million
8 gallons per day is displaced. For 20 million, a
9 million or a million and a half gallons but again
10 that number of amount displaced isn't verified. So
11 I don't want people jump up and down and say, "ok,
12 20 million we'll get another million and a half
13 gallons potable water."

14 MEMBER ROBINSON: Can you explain what that, what
15 that means, when you say displaced, what actually
16 does that mean?

17 DIRECTOR ENG: What it is you're replacing, if
18 someone's using potable water...

19 MEMBER ROBINSON: Yep.

20 DIRECTOR ENG: Particularly for outdoor irrigation,
21 you can really replace it or displace it with non-
22 potable or R-1 water.

23 MEMBER ROBINSON: Ok.

24 DIRECTOR ENG: So you're really utilizing your
25 available potable water for a better use.

26 MEMBER ROBINSON: I understand that. Ok.

27 DIRECTOR ENG: So, that's one of the uncertainties,
28 I mean the, his study is real good, I read it over,

1 you have to read it over and over again, there's so
2 much detail.

3 MEMBER ROBINSON: Sure.

4 DIRECTOR ENG: And that's why he has this latest
5 thing that I'll review this weekend again. You'll
6 get it, all of you. It's a good 98, 104 pages of
7 slow reading. But it's good, it's good
8 information. But there's just a lot of caveats too
9 and he did his comparison mostly on his, what he
10 calls his conametric comparison. So, cost is, is
11 really what drives it but as you know as we look at
12 developing lot of sources, new sources there's a
13 lot of other obstacles, environmental, you know
14 community issues, water commission and so we have
15 to take that into consideration too and that's what
16 my staff is looking at too. We use Carl's for some
17 basis but we look a lot further. Herb's looking
18 mostly at engineering issues; how do we
19 efficiently, cost effectively tie it into our
20 existing system too. We find that it's sometimes
21 our biggest challenge right now, because we've done
22 everything piecemeal. And in the long future I
23 mean even this Water Use and Development Plan, you
24 know everyone is talking about it, all the elected
25 officials, we need it, we should've had it. Yes,
26 it's good that we're gonna have it but even after
27 that we need really someone to come in and develop
28 a whole water master plan to show us where the

1 wells and the infrastructure are at, really going.
2 This is what we're still doing independent of the
3 plan and it's really difficult. And that is going
4 to be down the road, but I'm hoping that's the next
5 big step is to get a consultant to really master
6 plan out our plans to expand our system, all of our
7 systems. I won't be around.

8 (laughter)

9 DIRECTOR ENG: Herb will still. He has a young
10 son. He'll be around. Any other questions on
11 that?

12 MEMBER ROBINSON: Thank you, Jeff.

13 VICE CHAIR HOLMBERG: Well, just a comment, I
14 should say that when Mr., gosh, I'm having a brain
15 dump, Elster was talk, he said evidently worked
16 closely with Bud, down at the Wailea...

17 DIRECTOR ENG: Yeah, ok.

18 VICE CHAIR HOLMBERG: Community Association and,
19 and the feedback he was getting from Bud is, is
20 that, that, that the, the, they have no problem
21 with the idea of, of a higher tiered rate. So that
22 any objections we'd be getting providing of course
23 we're cutting them off altogether..

24 DIRECTOR ENG: Right.

25 VICE CHAIR HOLMBERG: Would come from that quarter.

26 DIRECTOR ENG: Right, right. Yeah, I think as
27 Chair Victorino gets through with it this year, I
28 think he wants to really tackle a lot of these

1 issues even the conservation legislation that came
2 up earlier. I think he'll re-visit that too, and I
3 still think we need an allocation ordinance for our
4 projects that, of highest priority. I've discussed
5 that with him and I've recently discussed that with
6 the mayor's office too. It's something that the
7 mayor could propose too. So yeah, I think it's
8 gonna be a busy year in Water Resources.

9 CHAIR ALDRIDGE: That's good.

10 DIRECTOR ENG: Yeah, I'm looking forward to it.

11 CHAIR ALDRIDGE: Ok. You've covered both item B
12 and C, right?

13 DIRECTOR ENG: Yes, I have.

14 CHAIR ALDRIDGE: Let' go to item D, Discussion
15 regarding the Maui County Water Resource
16 Committee's Items List as of January 2nd.

17 MS. HAYASHIDA: Anybody need copies?

18 CHAIR ALDRIDGE: Yeah, I don't have a copy. I
19 didn't...I mean keep that from..

20 DIRECTOR ENG: So that was, that was the end of the
21 year that..

22 CHAIR ALDRIDGE: When...

23 DIRECTOR ENG: As Chair Anderson passed, thank you.
24 Mr. Chair, I think maybe we should even clarify
25 when Chairman Victorino was here, he said that we
26 passed all the rules out, we just really went over
27 the definitions. So we still got a lot of work to
28 go, to go over all the various sections of our

1 existing rules. Is basically, we, in this first
2 committee meeting we did definitions and we did
3 the...

4 MR. KUSHI: Drought.

5 DIRECTOR ENG: The drought.

6 MR. KUSHI: And the Upcountry meters.

7 DIRECTOR ENG: The priority, yeah.

8 CHAIR ALDRIDGE: Yeah, not all the rules.

9 DIRECTOR ENG: No, the rules are, you know those
10 things, so. And that's gonna be really time
11 consuming for our staff 'cause before every
12 committee meeting we, we huddle together for like 3
13 hours. And, and, and so it's gonna be a long and
14 tough effort for these guys too. Thank you.

15 CHAIR ALDRIDGE: Thank you. At least of couple of
16 these items are gonna be covered by the next Water
17 Resources Committee meeting; the Water Conservation
18 bill, some of the water supply rules, the
19 definitions and things.

20 DIRECTOR ENG: Yeah, that will be ongoing.

21 CHAIR ALDRIDGE: Right.

22 DIRECTOR ENG: Probably the rest of the rules would
23 be after budget.

24 CHAIR ALDRIDGE: After budget.

25 DIRECTOR ENG: And we can't really take on...

26 CHAIR ALDRIDGE: Right. Anybody have any comments
27 on these?

28 (silence)

1 DIRECTOR ENG: The Hans thing, just for your
2 information, 'cause that's come up, we're really on
3 top of it. We've got our guys out there in the
4 recent month or so and take care of Lahaina. We do
5 a lot. He just sometimes requests more than, much
6 more than the agreement. And we try to accommodate
7 him. But it was, it was, we did quite a bit
8 recently.

9 CHAIR ALDRIDGE: Where is this at?

10 DIRECTOR ENG: He lives down in Kanaha Valley which
11 is kinda below Lahainaluna School.

12 CHAIR ALDRIDGE: Ohhh.

13 DIRECTOR ENG: So you gotta actually go through
14 Lahainaluna School to access his and you know
15 things like this cattle guard crossing, we took
16 care of that. I had, I found some more tracks from
17 the old Lahaina-Kaanapali Pacific railroad. So I
18 called and, luckily the manager's a friend of my
19 son so we got some railroad tracks for us. So I
20 told our boys grab more just in case we have to go
21 back again. I thought that was gonna be the most
22 difficult thing finding, finding railroad tracks.
23 We went in and did that. We're going to do some
24 concrete of his approach to the cattle guard. We
25 replaced and relocated a gate recently, so we're
26 pretty much on top of everything.

27 MEMBER HOWDEN: Oh, great 'cause that's...

1 DIRECTOR ENG: Only is the, is the clouded title
2 issue...

3 MEMBER HOWDEN: Dragged on for so long.

4 DIRECTOR ENG: But we have a contract out with a
5 title company, so that will just take some time.

6 CHAIR ALDRIDGE: I just have one question. Do you
7 think this new council, or present makeup of the
8 council which isn't entirely new but, will have,
9 will be more receptive to changes in the water
10 structure, water rates structure? I mean I was
11 kinda surprised last time when I thought our
12 recommendations were pretty modest and they never,
13 they were not accepted. I don't remember the, the
14 vote, how it went specifically but.

15 DIRECTOR ENG: I think they will be receptive. I
16 think might, what might've happened is you know,
17 anything new you know, any change doesn't happen
18 quickly in county government. I took a couple
19 years but, I mean just for instance remember last
20 year when we had the fire flow requirements, we're
21 working on and getting out of my department to the
22 Fire Department, you know, and we came so close to
23 passing it and then it stopped you know but.
24 That's kind of our highest priority. That would
25 help remove some of the bottleneck in Herb's
26 division. Just that lack of consistency with the
27 Fire Department and our requirements. So we get it

1 out of our rules, just some things we'll still have
2 to look at you know obviously...

3 CHAIR ALDRIDGE: Sure.

4 DIRECTOR ENG: Subdivisions, if any improvements
5 are necessary but so even when you see something
6 really beneficial and positive it still takes
7 forever to get it changed. Amazing.

8 CHAIR ALDRIDGE: If there are no other questions on
9 this, let's move on to item D, Receipt of board
10 member requests for agenda items to be placed on
11 future agendas. We probably have a number of
12 items, Gaye, that we sort of deferred and we don't
13 have any appeal at the next meeting so, you might
14 want to try and pick up on some those.

15 MS. HAYASHIDA: I need to go back and refer to my
16 list. I can't think of...

17 CHAIR ALDRIDGE: Yeah, I can't either off the top
18 of my head but I know we've been accumulating a
19 number of...Michael might remember.

20 MEMBER HOWDEN: They're all my items.

21 (laughter)

22 MEMBER HOWDEN: But one thing of course I, I have
23 a, an abiding interest in the Piiholo Well. And I
24 want to know where that is. I met a developer,
25 Zack Franks of the Olinda Community Association
26 meeting. And he was talking about his well. He's
27 very proud of his well, so I just wondered if he's
28 talked to you about that.

- 1 DIRECTOR ENG: I've had a preliminary discussion
2 with him.
- 3 MEMBER HOWDEN: Ok.
- 4 DIRECTOR ENG: I think that he had a meeting with
5 the mayor this morning, set up something he and his
6 partners.
- 7 MEMBER HOWDEN: Oh good.
- 8 DIRECTOR ENG: No, in fact we had good meetings.
- 9 MEMBER HOWDEN: Ok.
- 10 DIRECTOR ENG: You know, just kept things really
11 open at this time.
- 12 MEMBER HOWDEN: And where are we with Piiholo?
- 13 DIRECTOR ENG: May I...
- 14 CHAIR ALDRIDGE: Yes.
- 15 DIRECTOR ENG: Just discuss it a bit?
- 16 DIRECTOR ENG: Ok, it's actually kinda in, in
17 abeyance right now. There is some pump testing by
18 Maui Pine back in September, October. And our
19 analysis of the pump test is that it wasn't
20 producing the yield that they had hoped for. And
21 so it's kinda stopped there in discussion and
22 communication. I, I expect that they should come
23 forward and want to discuss where to go from here.
24 But the pump test was not, did not pass. Like it
25 failed by our standards. Which requires them to,
26 to re-do the pump test. So, it's more of a yield
27 issue and that's where it stands right now.
- 28 MEMBER HOWDEN: Ok.

1 DIRECTOR ENG: Given the situation that Maui Pine
2 is in right now I don't know if they want to go any
3 further this time.

4 MEMBER HOWDEN: The water was of good quality
5 though?

6 DIRECTOR ENG: Yeah.

7 MEMBER HOWDEN: Ok.

8 CHAIR ALDRIDGE: So it just didn't produce the
9 yield that was required.

10 DIRECTOR ENG: They, they drilled it in a very poor
11 geologic formation. I mean up there like, like Mr.
12 Franks is across the road and he's told me he has
13 pretty high yield and so it's just a matter of just
14 sometimes being lucky.

15 CHAIR ALDRIDGE: Yeah, hit and miss because of the
16 rapidly changing subsurface geology.

17 DIRECTOR ENG: Yeah.

18 MEMBER ROBINSON: Has his well passed some of the
19 tests that you...

20 DIRECTOR ENG: Mr. Franks?

21 MEMBER ROBINSON: Yes.

22 DIRECTOR ENG: I've seen some water quality tests,
23 I would probably want it re-done in some time just
24 because he's in a very sensitive location, right in
25 the middle...

26 MEMBER ROBINSON: Of the pineapple fields.

27 DIRECTOR ENG: Pineapple field. And you know a lot
28 of these tests you wanna know how long the pumping

1 been running and the key thing is who, who, who
2 sampled? Who collected the samples? 'Cause we've
3 find sometimes errors, like I would like my staff,
4 my lab people you know they're trained and they
5 have good technique and sampling, especially in
6 these organic type of things. You could lose the
7 material real quick..

8 CHAIR ALDRIDGE: Yeah, they're volatile.

9 DIRECTOR ENG: So, we'd have to revisit that, look
10 at the pump test a little bit more and look at even
11 how they, from the driller, get all the information
12 on the well construction. So there's a lot of
13 things that we weren't a part of. So whenever
14 there's a well that was done without our input,
15 we'd have to do our, our review.

16 MEMBER HOWDEN: Yeah, it was interesting to me,
17 Zack said that they grouted all the way down to the
18 basal lens on that well. And that had been one of
19 engineering's suggestions to Director Tengan when
20 the former administration approved the well, that,
21 that to prevent pollution from the poisons used in
22 the pineapple production, that they should grout
23 all the way down. Which of course you know..

24 DIRECTOR ENG: That's a standard of my engineers,
25 grout all the way down. Even though I think the
26 Water Commission and their well construction
27 standards are something like 70% of the length.
28 And that's why a lot of these private well

1 developers just hate us. And that was probably the
2 sticking point on Piiholo was, how far and I think
3 in the end the mayor, then mayor might have
4 stepped. I don't think they grouted Piiholo all
5 the way down.

6 MEMBER HOWDEN: No, they didn't.

7 DIRECTOR ENG: Yeah.

8 MEMBER ROBINSON: Grouting meaning what?

9 DIRECTOR ENG: Basically concreting between the
10 casing and hole itself.

11 MEMBER ROBINSON: Oh, I see.

12 DIRECTOR ENG: The bore itself. There's this
13 space...

14 CHAIR ALDRIDGE: When they bore generally larger
15 than the casing diameter they insert. They end up
16 with an annular space around it that needs to be
17 filled or you may get water coming in.

18 MEMBER HOWDEN: Yeah, infiltration...

19 CHAIR ALDRIDGE: Infiltration...

20 MEMBER HOWDEN: Of the agricultural chemicals and
21 whatnot.

22 MEMBER ROBINSON: Thank you.

23 CHAIR ALDRIDGE: Which is an expensive proposition.

24 DIRECTOR ENG: Yeah, that's why, that's why...

25 CHAIR ALDRIDGE: Needless to say.

26 MEMBER HOWDEN: Zack said it wasn't that much more.

27 CHAIR ALDRIDGE: Well, the extra 30% is not that
28 much more you know, the whole operation of grouting

1 is, is expensive but if you're gonna go 70 versus a
2 100 you know...

3 MEMBER HOWDEN: Do it right.

4 CHAIR ALDRIDGE: Do it right.

5 MEMBER HOWDEN: Sorry.

6 VICE CHAIR HOLMBERG: Mr. Chair, I'd like to also,
7 I stick this in for my last meeting but just to try
8 and move the process a long I wanted to, I wanted
9 to have us consider whether or not to, what do we
10 say when we say something up to the council or
11 making a suggestion?

12 MEMBER LESTER: A resolution?

13 VICE CHAIR HOLMBERG: A resolution, there we go.
14 To consider a resolution or resolutions that would
15 encourage them to, to remove the revenue to, for
16 capital improvements impediment to consider the
17 rates and fees be added to the current budget if
18 there's time and to see whether or not we can or
19 whether we should have a, hire a consultant or what
20 the Department should hire a consultant to, to
21 tweak. The previous consultant's recommendations
22 for the, for the new proposed water rate tiers.

23 MEMBER HOWDEN: Also in that regard, system
24 development fees that Carl pointed out again this
25 morning.

26 DIRECTOR ENG: We have a current contract with RW
27 Beck looking at that.

28 MEMBER HOWDEN: Oh, great. Ok, wonderful.

1 VICE CHAIR HOLMBERG: Oh, so it's not like we'd
2 have to hire a, we'd have to hire them all over
3 again?

4 DIRECTOR ENG: Well, maybe for another rate design,
5 that would probably be another contract, separate
6 contract.

7 CHAIR ALDRIDGE: So this is an item you want on the
8 next agenda?

9 VICE CHAIR HOLMBERG: Yes, please.

10 CHAIR ALDRIDGE: I just wanna make sure. Any
11 other? Gaye, you can take a look at some of the
12 ones we backlogged too for whoever the next chair
13 will be. All right, thank you. Let's move on to,
14 there are no Communications, Director's Report, A,
15 Update on the Proposed Hamoa Well 2.

16 DIRECTOR ENG: Thank you, Mr. Chair. This came up
17 I think at the last meeting with Mr. Blumer-Buell,
18 kinda giving some testimony and expressing some
19 concerns he had. And I talked to him during the
20 break whatever of that meeting. And what he did
21 is, at that time again in December or November, the
22 mayor had been in communication or had attended
23 this mayor's conference. And the mayors were
24 trying to get together to provide a list, I guess
25 to congress as far as infrastructure needs. I was
26 telling to Carl earlier, it's really last minute.
27 I was contacted one afternoon to provide the list
28 by 9 the following morning. We did a lot of our

1 CIP list, existing CIP list 'cause a lot of the
2 projects had to be ready to go and developed a
3 quick list and also an estimate of how many jobs it
4 would provide too. We got that in. One of the
5 items was this extension of the waterline from
6 Hamoa to Koali in Hana; something like \$8 million
7 for construction and that kind of set off
8 something. The other thing I think he looked at
9 was something regarding, his concern was Hamoa Well
10 2 that we're developing. So I'll touch on both of
11 those. First one, that waterline. We're not gonna
12 go forward with any construction of that waterline
13 until we get community input. I kinda recall back
14 when the Department approved the waterline from
15 Hana town to Hamoa in which they put in a 12-inch
16 waterline, a lot of hydrants, there was a need to
17 improve fire protection in that area but the whole
18 community was just up in arms. And so, we're not
19 gonna go that route. We will meet with the
20 community if we decide to go and do that
21 construction. There is a need to improve that
22 line. In some areas there's very small and
23 deficient, but may not necessarily need a 12-inch
24 waterline. It can be something scaled back. And
25 we don't have the funding for that currently
26 anyway. But that was put on the list. Eight
27 million dollars construction and I assured John
28 that no, we're not going there. I'll call him

1 personally before we do anything. He can set up
2 the meeting for me. The construction plans though
3 are going to be completed. They're very near
4 completion. I think we have, we've had a couple of
5 reviews. But we're gonna complete the construction
6 plans, get Public Works to sign off on the plans
7 then we're gonna file them for the time being. As
8 far as Hamoa Well 2, that has been in the plans
9 since, that was in the 2008 CIP. That is a backup
10 well for Hana. We don't have a backup for Hana so
11 it's not gonna be for additional growth,
12 necessarily additional meters, well there always
13 could be some organic growth out there that
14 requires meters. But will be a backup well on the
15 same site as the existing Hamoa Well. That well
16 was drilled, Hamoa Well 2 was actually drilled some
17 time ago. It just now going to be completed with
18 pump motor controls. Contract has been awarded to
19 Goodfellow Brothers, that was awarded probably end
20 of 2008. Notice to proceed hasn't been issued yet
21 but that is gonna happen sometime.

22 CHAIR ALDRIDGE: So this is a complete backup to
23 the existing well?

24 DIRECTOR ENG: Yes.

25 CHAIR ALDRIDGE: Is the existing well a very old
26 well?

27 DIRECTOR ENG: It's been there quite a while,
28 Hamoa.

1 CHAIR ALDRIDGE: What was practice of these old
2 wells? Were they cased with steel?
3 DIRECTOR ENG: I think it's not that old.
4 CHAIR ALDRIDGE: It's not that old.
5 DIRECTOR ENG: It's not that old. So it's, I don't
6 know how many...
7 CHAIR ALDRIDGE: No, I just, I'm just wondering why
8 it wasn't just a backup pump and you know,
9 replacement pump or, or motor or something like
10 that. Why an entirely new well. Is there
11 something going on with the new well?
12 DIRECTOR ENG: No, there's just no redundancy...
13 CHAIR ALDRIDGE: Oh, I see, no redundancy.
14 DIRECTOR ENG: I forgot where our other well is on
15 the northern part of Hana town. We've had a
16 history, we've had one old well there. It
17 basically, chlorides got (inaudible, someone
18 coughing). We have another old well there.
19 Chlorides are not too good. So there's one well on
20 the northern part as you enter Lahaina, I mean Hana
21 town, then we have Hamoa. So we have just 2
22 sources feeding, serving Hana. At some point we're
23 gonna have to address that other well with high
24 chlorides. I've heard there's some talk at some
25 point drilling another well there too. But
26 basically there'll be, we have 2 wells serving the
27 Hana area. And this, this will only be a backup
28 for those 2 wells.

1 CHAIR ALDRIDGE: So, the waterlines are not really
2 a shovel ready project, to borrow a phrase.

3 DIRECTOR ENG: Well, we could probably get those
4 construction plans and then out to contract within
5 that, I've seen different time periods. I've seen
6 like a 120 days, I've, I've seen by the end of the
7 year, you know it has to be construction. And
8 that's basically where we looked at. Could we,
9 let's say, have anything ready by June, I mean
10 sure, we have a whole lot that even if we're still
11 getting some projects designed, the construction
12 plans will be ready to go out to bid by June. We
13 have a bunch of those projects.

14 CHAIR ALDRIDGE: Is there, are they gonna give you
15 lee-way to use, to exchange projects in terms of
16 the stimulus bill? I mean, is everything on a list
17 only project that you can build using that money?

18 DIRECTOR ENG: Yeah, you actually, because again,
19 the rules are kinda changing. We're right now, the
20 rules will be administered by the existing state
21 revolving fund program, that's EPA money,
22 administered through the local state Department of
23 Health and they're really loans to the utilities.
24 So like we have one for the Clearwell at Kamole.
25 That was like a \$10 million loan. For, currently
26 for this Napili A tank, we're going through SRF for
27 \$1.5 million loan. We're even kinda hoping that
28 maybe we could shift that to the grants. I think

1 we're too far along. But if that grant money was
2 ready we would tear up those loan papers. They'll
3 probably say no. Most of the projects for us are
4 probably waterline replacement projects. So
5 perfect. Again, there looks like there's about
6 close to \$19.8 million coming to the state and
7 we're trying to work together with the other
8 counties, kinda share that monies. We have right
9 now this, for \$6 million in projects. We got it
10 tomorrow, we're going in. We had to though get on
11 that SRF project list and we did so by the end of,
12 we had to do by the end of the calendar year. Herb
13 Chang was really filling out applications right to
14 December 31, getting them in. So, we have, we have
15 the projects in place. So, we're just hoping to
16 hear word on the funding. So, we're ready to move.
17 Now if another county, and we have to work with the
18 Department of Health 'cause I don't think they want
19 to handle all the burden of signing which projects.
20 So, we're working with the other counties too. We
21 all kinda wanna share in the pot to begin with.
22 But if a county, another county isn't ready then
23 we'll have an opportunity to maybe get some of
24 their share of funding.

25 MEMBER ROBINSON: And, and this was the document
26 that was sent around about the stimulus, is this,
27 is that what you...

1 DIRECTOR ENG: That is the whole, yeah large,
2 almost \$800 billion stimulus package.

3 VICE CHAIR HOLMBERG: Regarding the, if I might
4 just briefly address the existing Hamoa pipe that
5 was put in, that I remember the stink that caused,
6 and I, one of the first questions I asked when I
7 got on the Board was, well what was the rationale
8 for the pipe being that large and the response I
9 wanna say was from one of the existing staff
10 members anyway, was that, that that was per what
11 the current state fire protection code was, and,
12 and so I'm wondering now was that literally true
13 or...

14 DIRECTOR ENG: I'd always heard it was fire, fire
15 protection. So I never doubted the information I
16 got from the staff. But I did know the public
17 questioned that because a lot of that just goes
18 along Hana Highway and it's just surrounded by
19 pastures. So you know I can understand why the
20 community was concerned as they were. So, we, we
21 will address that if we should ever do anything.
22 We do have from beyond Hamoa to Koali, we do have,
23 there's one section just past Hamoa, old line that
24 really have our greatest incident of breakages. So
25 I told John that you're gonna see us in there doing
26 some repairs on certain sections, don't get
27 alarmed. And he's been willing, yeah I live right
28 there. So, you want us to repair it or not. Yeah,

1 please repair it. We have to probably at some
2 point look at, if the rate of breaks continue we
3 would have to probably do a more permanent types of
4 replacement. But again, we could satisfy the
5 community by maybe not going with such a large
6 diameter...

7 MEMBER ROBINSON: Pipe?

8 DIRECTOR ENG: Pipe.

9 MEMBER LESTER: We have a lot of those breaks on
10 Molokai.

11 DIRECTOR ENG: Yes.

12 CHAIR ALDRIDGE: Alright, thank you, Jeff.

13 DIRECTOR ENG: You're welcome.

14 CHAIR ALDRIDGE: Division reports. We have
15 Division Reports. Any questions or comments on the
16 latest? Hearing none. Financial Summary we
17 received for fiscal year July 1, 2008 to June 30,
18 2009. Jeff, did you want to comment on this?

19 DIRECTOR ENG: You know, I had actually asked Holly
20 to be on call if you had any questions. And maybe
21 at some point in future if you folks needed more
22 detailed explanation then we could always, Holly
23 was tied up working on the budget with the Budget
24 Office this morning.

25 CHAIR ALDRIDGE: Oh now, frankly I just never had a
26 chance to look through this. Maybe if there are
27 any questions the board members have we can bring

1 this back at the next meeting if there's any
2 questions.

3 DIRECTOR ENG: Ok.

4 MEMBER ROBINSON: I assume that the power purchase
5 electrical expense had to do with the price of, the
6 price of oil and the price of...

7 DIRECTOR ENG: Yeah.

8 MEMBER ROBINSON: Reasonable assumption. And, and
9 maybe a lot less, a lot more pumping that has to
10 happen or is that not been unusual for
11 comparatively speaking.

12 DIRECTOR ENG: Well, right now in the recent couple
13 months we have done a little less pumping
14 (inaudible, someone coughing) Upcountry. We
15 haven't pumped up from Kamole and with a favorable
16 electricity rates now, yeah we had to treat your
17 billings as we're experiencing our household
18 billings, are coming down. A lot of households
19 have seen bills cut in half recently.

20 CHAIR ALDRIDGE: Almost.

21 DIRECTOR ENG: Almost yeah.

22 MEMBER ROBINSON: Did anything get into the budget
23 about the, using alternative energy sources to pump
24 water.

25 DIRECTOR ENG: We put a little bit in our CIP.

26 MEMBER ROBINSON: You did, ok.

27 DIRECTOR ENG: That's one of our county-wide
28 expenses.

1 MEMBER ROBINSON: Good, good, good.

2 CHAIR ALDRIDGE: Alright. No other questions, we
3 move to item 12, Election of Chair and Vice Chair.
4 We need, I assume that the board members wish to
5 proceed with this even though we're missing 3
6 members. No, unless I hear otherwise. I don't
7 know if everybody hear plans to be here at next
8 week, I assume that Scott will be back, I know
9 Marion will be back, she owes me lunch next week, I
10 mean not next week, next meeting.

11 DIRECTOR ENG: She'll definitely be here.

12 CHAIR ALDRIDGE: Yeah.

13 MEMBER ROBINSON: So we can wait.

14 CHAIR ALDRIDGE: We could wait if we wished.

15 MEMBER ROBINSON: Is there, is this anybody's last
16 meeting, no?

17 MS. HAYASHIDA: No, no, the next meeting.

18 CHAIR ALDRIDGE: No, next but we need to do it next
19 meeting.

20 MEMBER ROBINSON: But we definitely have to do it
21 next meeting for sure.

22 MEMBER LESTER: Yeah, the next meeting.

23 MEMBER ROBINSON: Ok.

24 CHAIR ALDRIDGE: Or we'll have a chairless meeting
25 in April. Which actually might go faster.

26 MEMBER ROBINSON: No, no, we'll just cement you
27 into the, what's that, what is that they use in the
28 pipe the..

1 VICE CHAIR HOLMBERG: Grout.
2 MEMBER ROBINSON: We're gonna grout you into the
3 chair.
4 CHAIR ALDRIDGE: Sounds uncomfortable.
5 MEMBER ROBINSON: Well, we wouldn't want that.
6 VICE CHAIR HOLMBERG: Mr. Chair, I'd make a motion
7 to defer the election until we have a full, full
8 house next month.
9 CHAIR ALDRIDGE: Ok. Second?
10 MEMBER LESTER: Second.
11 MEMBER HOWDEN: Sounds good.
12 CHAIR ALDRIDGE: Alright, everybody in favor?
13 (a chorus of ayes)
14 CHAIR ALDRIDGE: We'll defer the election.
15 MEMBER LESTER: Of course if you're not here, then
16 we will, I'm gonna nominate somebody's who's not
17 here.
18 VICE CHAIR HOLMBERG: If you don't show up to the
19 meeting..
20 DIRECTOR ENG: How cruel.
21 (several members speaking at the same time)
22 CHAIR ALDRIDGE: Yeah, both people absent, yeah.
23 MR. KUSHI: You'd better show up..
24 CHAIR ALDRIDGE: Congratulations.
25 (laughter)
26 CHAIR ALDRIDGE: Very funny. Alright, meeting is
27 adjourned. Thank you, everybody.
28 (The meeting adjourned at 11:45 a.m.)

Prepared and submitted by:

Gaye Hayashida
Commission Support Clerk

Approved on: _____