1	BEFORE THE
2	CALIFORNIA STATE WATER RESOURCES CONTROL BOARD
3	
4	CALIFORNIA WATERFIX WATER)
5	RIGHT CHANGE PETITION HEARING)
6	JOE SERNA, JR. BUILDING
7	CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
8	SIERRA HEARING ROOM
9	1001 I STREET
10	SECOND FLOOR
11	SACRAMENTO, CALIFORNIA
12	
13	PART 2
14	
15	Monday, April 2, 2018
16	9:30 a.m.
17	
18	Volume 25
19	Pages 1 - 236
20	
21	
22	
23	Reported By: Candace Yount, CSR No. 2737, RMR, CCRR Certified Realtime Reporter
24	certified Reaferine Reporter
25	Computerized Transcription By Eclipse
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1	APPEARANCES
2	CALIFORNIA WATER RESOURCES BOARD
3	Division of Water Rights
4	Board Members Present:
5 6	Tam Doduc, Co-Hearing Officer Felicia Marcus, Chair & Co-Hearing Officer Dorene D'Adamo, Board Member
7	Staff Present:
8 9 10	Andrew Deeringer, Senior Staff Attorney Conny Mitterhofer, Supervising Water Resource Control Engineer Jean McCue, Water Resources Control Engineer Hwaseong Jin
11	PART 2
12	For Petitioners:
13	California Department of Water Resources:
14 15	James (Tripp) Mizell Jolie-Anne Ansley
16	INTERESTED PARTIES:
17	For California Water Research:
18	Deirdre Des Jardins
19	Local Agencies of the North Delta:
20	Osha Meserve
21	For Friends of the River & Sierra Club of California:
22	E. Robert Wright Kyle Jones
23	
24	
25	

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1	APPEARANCES (Continued)
2	INTERESTED PARTIES (Continued):
3	For Central Delta Water Agency, South Delta Water Agency (Delta Agencies), Lafayette Ranch, Heritage Lands Inc., Mark Bachetti Farms and Rudy Mussi Investments L.P.:
5	John Herrick
6	
7	For California Sportfishing Protection Alliance (CSPA) California Water Impact Network (C-WIN), and AquAlliance:
8	Chris Shutes
9 10	For State Water Contractors:
11	Stefanie Morris
12	For The Environmental Justice Coalition for Water:
13	Colin Bailey Osha Meserve
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- 1 Monday, April 2, 2018 9:30 a.m.
- 2 PROCEEDINGS
- 3 ---000---
- 4 CO-HEARING OFFICER DODUC: All right,
- 5 everyone. Please take a seat. It is 9:30 this fine
- 6 Monday morning.
- Welcome back to this Water Right Change
- 8 Petition for the California WaterFix Project.
- 9 I am Tam Doduc. To my right is Board Chair
- 10 and Co-Hearing Officer Felicia Marcus. And to the
- 11 Chair's right is Board Member Dee Dee D'Adamo. To my
- 12 left are Andrew Deeringer and Conny Mitterhofer.
- We're also being assisted today by Mr. Baker.
- We are in a different room today, so please
- 15 take a moment and identify the exit closest to you.
- 16 But I believe the exit behind you is the one that will
- 17 give you the shortest access to the stairwell -- to the
- 18 stairs, and there should not be any partition to block
- 19 your access.
- In the event of any emergency, an alarm will
- 21 sound. We will evacuate using the stairs down to the
- 22 first floor and meet up in the park across the street
- 23 where we may just stay for the rest of the day since
- 24 it's so beautiful.
- 25 But in the event you're not able to use the

- 1 stairs, please flag down one of the security people --
- 2 safety people and they will direct you into a
- 3 protective area.
- 4 As you know, this hearing is being recorded
- 5 and Webcasted so, as always, speak into the microphone
- 6 after making sure the green light is on, and begin by
- 7 stating your name and affiliation.
- 8 Our court reporter is back with us. If you
- 9 would like to have a copy of the transcript prior to
- 10 the end of Part 2, please make your arrangements
- 11 directly with her.
- 12 Finally, and most importantly, since we've
- 13 all, I'm sure, turned on our cellphones during the
- 14 weekend, please take a moment and make sure all your
- 15 noise-making devices are on silent, vibrate, do not
- 16 disturb.
- 17 All right. Any housekeeping matter before we
- 18 begin?
- 19 Miss Des Jardins, we did receive your request
- 20 with respect to your subpoena witness, as well as
- 21 PCFFA's witness. We are still considering that.
- We should let you know hopefully either by the
- 23 end of the day or tomorrow sometimes on what the next
- 24 steps are.
- MS. DES JARDINS: Thank you very much.

- 1 CO-HEARING OFFICER DODUC: Miss Meserve, who,
- 2 by the way, impressed the heck out of me because I saw
- 3 her bringing her bike to work this morning.
- 4 MS. MESERVE: Thank you. It's a short --
- 5 CO-HEARING OFFICER DODUC: And wearing a
- 6 helmet.
- 7 MS. MESERVE: I do wear a helmet. I try to
- 8 set a good example for my kids.
- 9 Thank you.
- Just on behalf of the Stone Lakes groups, I am
- 11 talking with Pacific Coast Federation of Fishermen's
- 12 about potentially going before them in order to
- 13 accommodate their need to go later and our need to try
- 14 to get our witnesses through next week.
- 15 I have conferred with counsel for DWR about
- 16 that. I believe they are checking into -- It is a week
- 17 in advance so I think it should be okay.
- 18 So maybe we'll check in at the end of the day,
- 19 I assume, about next week.
- 20 CO-HEARING OFFICER DODUC: That would be
- 21 excellent. Thank you for helping out PCFFA.
- 22 And a reminder that there was a request by
- 23 Mr. Jackson and others to file a written
- 24 motion/objection -- whatever the correct terminology
- 25 is -- by 5 p.m. tomorrow in response to the information

1 that DWR released last week. I believe it was a Motion

- 2 for Stay or something like that.
- 3 So we will take that under consideration as
- 4 well before determining what activities will ensue next
- 5 week.
- 6 All right. If there isn't any other
- 7 housekeeping matter, Mr. Wright, welcome to you and
- 8 your panelists, finally. Thank you for your patience.
- 9 And thank you for bearing us with our somewhat hectic
- 10 schedule.
- 11 If I could ask the four people to please stand
- 12 and raise your right hand.

13

- 14 Dierdre Des Jardins,
- 15 Ron Stork,
- Jonas Minton
- 17 and
- 18 Lawrence Kolb,
- 19 called as witnesses by the Friends of the
- 20 River and Sierra Club of California, having
- 21 been duly sworn, were examined and testified
- 22 as follows:
- 23 CO-HEARING OFFICER DODUC: Thank you. Be
- 24 seated.
- 25 And you submitted a written Opening Statement.

- 1 Do you wish to make an oral Opening Statement?
- 2 MR. WRIGHT: Yes, a very brief one.
- 3 CO-HEARING OFFICER DODUC: Okay. We'll give
- 4 you -- You don't have to use the entire 20 minutes but
- 5 you have that.
- 6 And, then, just for my -- my purposes going
- 7 forward, how much time do you need for direct?
- 8 MR. WRIGHT: I believe each witness will be 20
- 9 minutes.
- 10 CO-HEARING OFFICER DODUC: Okay. And --
- 11 MR. WRIGHT: And I will endeavor to hold each
- 12 witness to that also.
- 13 CO-HEARING OFFICER DODUC: All right. May I
- 14 get an estimate of cross-examination so that
- 15 Mr. Bailey, if he's watching, might have an idea of
- 16 when he may come up.
- 17 MS. ANSLEY: Jolie-Anne Ansley for the
- 18 Department of Water Resources.
- 19 We have a joint cross, State Water
- 20 Contractors. We estimate about an hour.
- 21 CO-HEARING OFFICER DODUC: All right.
- MR. HERRICK: John Herrick, South Delta
- 23 parties.
- 24 Maybe 10 or 15 minutes at most.
- MR. SHUTES: Chris Shutes with CSPA.

- 1 Half an hour.
- 2 MS. MESERVE: Osha Meserve.
- 3 I'd like to reserve 15 minutes.
- 4 CO-HEARING OFFICER DODUC: So I have 80
- 5 minutes or thereabout for direct.
- 6 I think it's safe, Mr. Bailey, if you're
- 7 watching, we won't get to you until after our lunch
- 8 break. We might take an early lunch break, depending
- 9 how quickly this goes, but not before lunch.
- 10 All right. With that, Mr. Wright, your
- 11 Opening Statement.
- 12 MR. WRIGHT: Yes.
- 13 OPENING STATEMENT
- MR. WRIGHT: Good morning, Hearing Officers,
- 15 Board members and Water Resource Control Board staff.
- 16 Kyle and I are here representing Friends of
- 17 the River and Sierra Club California.
- Just to give you a brief idea of what you're
- 19 going to be hearing today in terms of an opening
- 20 statement of what the witnesses are going to be talking
- 21 to you about, it really's going to come down into two
- 22 parts, with the theme being whether or not the proposed
- 23 changes are in the public interest.
- Now, the first part, you'll be hearing from
- 25 Dierdre Des Jardins and Ron Stork. And the big thing

- 1 there is, where would the water come from in the
- 2 Project? And what would those impacts be?
- 3 And you'll be hearing about the history of
- 4 how, back in the 1960s, with the forerunner of this
- 5 Project within the Department of Water Resources, it
- 6 was presumed that water could be taken from the north
- 7 coast rivers to supply the missing water.
- 8 Of course, folks are now -- we're talking
- 9 about wild and scenic rivers -- protected wild and
- 10 scenic rivers.
- 11 We'll also be hearing from Dierdre Des Jardins
- 12 that the yields would be going down because of
- 13 increasing water rights and uses in the Sacramento
- 14 Valley.
- 15 And Dierdre will also talk a little bit about
- 16 climate change, the impacts that's going to have.
- 17 And then for Mr. Stork, Ron Stork, you're
- 18 going to hear about the impacts that the Project would
- 19 have because of lowering reservoir levels to adverse
- 20 impacts on temperatures and flows below the reservoirs
- 21 and upstream from the Delta.
- 22 He'll also be talking about the pressures to
- 23 expand storage to meet the needs for the diversion
- 24 change for the Project.
- 25 And, again, putting some numbers on the --

- 1 what was mentioned earlier about getting more water
- 2 from north coast rivers, the estimates at the time was
- 3 that 2 million acre-feet would be needed for the
- 4 Project.
- 5 So, again, the issues, what I would call
- 6 Part 1: Where would the water come from? What would
- 7 the impacts of that be?
- 8 Dierdre Des Jardins has a long, extensive
- 9 history with the scientific and mathematical background
- 10 in researching California water supply impacts.
- 11 Ron Stork was a Founding Member of the
- 12 Sacramento Water Forum.
- And, of course, we all know that, if agencies
- 14 like FERC had followed Mr. Stork's advice back years
- 15 ago, maybe some people may not have been evacuated,
- 16 because the Oroville emergency spillway would have been
- 17 properly armored.
- 18 So that would be what I call Part 1.
- 19 Part 2 will be the issue of alternatives.
- 20 Again, is this diversion change in the public interest?
- 21 What are the alternatives to avoid the adverse water
- 22 quality impacts that would result from this Project?
- 23 And from -- from Jonas Minton, you'll be
- 24 hearing about the tremendous strides that have been
- 25 made in Southern California on recycling, modern 21st

- 1 Century methods of supplying more water.
- 2 You'll be hearing about (sic) him about
- 3 converting the drainage-impaired lands in the
- 4 San Joaquin Valley so that they could be converted to
- 5 solar and not have the double impact of drawing both
- 6 more water but also contributing to salinity problems
- 7 in the San Francisco Bay Delta.
- 8 And, then, from Dr. Larry Kolb, you'll be
- 9 hearing about, based on his long experience, that
- 10 really measurable limits are necessary, far superior to
- 11 things like adaptive management.
- 12 You'll be hearing about -- from him about how
- 13 the tunnels would magnify the effects of pollution on
- 14 the Delta by lessening fresh water flows through the
- 15 Delta.
- 16 And, of course, Jonas Minton at one point was
- 17 Executive Director of the Sacramento Water Forum, as I
- 18 think you all know. He was also the Deputy Director of
- 19 the Department of Water Resources.
- Dr. Larry Kolb has a Ph.D. in engineering. He
- 21 spent 33 years on the staff of the San Francisco Bay
- 22 Regional Water Quality Control Board. And at the time
- 23 he retired, he was the Principal Engineer for that
- 24 Board and the Assistant Executive Officer.
- 25 Again with this, all, of course, would be

- 1 embraced under the overall umbrella as one of your key
- 2 hearing issues: Would this diversion change be in the
- 3 public interest of the State of California?
- 4 Thank you very much for allowing me that brief
- 5 Opening Statement.
- 6 And with that, to start, I'd ask Dierdre
- 7 Des Jardins:
- 8 DIRECT EXAMINATION BY
- 9 MR. WRIGHT: Is Exhibit FOR-7 a true and
- 10 correct copy of your qualifications?
- 11 WITNESS DES JARDINS: Yes, it is.
- 12 MR. WRIGHT: And is Exhibit FOR-8 a true and
- 13 correct copy of your written testimony?
- 14 WITNESS DES JARDINS: Yes, it is. And I
- 15 also --
- 16 Yes, it is. I also wanted to add, I noticed
- 17 hadn't put citations to the reports for the graphics.
- 18 The graphic on Page 5 is from FOR-12, Page 12.
- 19 The graphic on Page 6 is from FOR-15, Page 8.
- 20 And the graphic on Page 9 is from FOR-110,
- 21 Page 29.
- I do refer to all of the reports. I just
- 23 didn't put specific citations to what page on the
- 24 exhibits they came from.
- MR. WRIGHT: All right. Would you -- Again,

- 1 make sure you speak into the microphone.
- 2 And now would you please summarize your
- 3 testimony for the Hearing Officers, Board Members and
- 4 staff.
- 5 WITNESS DES JARDINS: Thank you.
- 6 I've looked into the history of the State
- 7 Water Project and Central Valley water -- Project water
- 8 resources planning. I've done a lot of collaboration
- 9 and discussion with Friends of the River about it. And
- 10 one of the reasons is to understand why there are so
- 11 many issues today.
- 12 I believe that this decision will govern how
- 13 the State Water Project and Central Valley Project
- 14 water rights are exercised for the next 50 to 100
- 15 years.
- And I think, to understand what Permit terms
- 17 and conditions might be necessary, it's essential that
- 18 the Board understand this historical context about the
- 19 State Water Project's water supply.
- 20 My testimony -- There's a couple key points in
- 21 my testimony which I'll summarize and then I'll go into
- 22 in detail.
- One is that the State Water Project, as
- 24 originally planned, only had about half the water
- 25 supplies -- from water supplies for its contracts of

- 1 4.23 million acre-feet.
- Second was that one of the ways the Department
- 3 of Water Resources dealt with the ensuing conflict was
- 4 to operate Oroville Reservoir much more aggressively,
- 5 which risks straining the reservoir to near minimum
- 6 pool in multiyear drought.
- 7 And changes to the reservoir operations were
- 8 not disclosed in other -- to the State Water Resource
- 9 Control Board and regulatory processes which I'll
- 10 describe in more detail.
- 11 Another thing is that very early on in the
- 12 Project history, they noticed -- the Department of
- 13 Fish & Game noticed the river flows in the Delta, and
- 14 they identified this as diverting more water than would
- 15 naturally flow in the channels of the Delta.
- 16 So, again, this conflict is linked to some of
- 17 the impacts that we're seeing with river flows.
- 18 And, finally, the yield of the State Water
- 19 Project is projected to go down further due to both the
- 20 need to -- for increased outflows to repel salinity due
- 21 to sea-level rise and maturity of water rights north of
- 22 the Delta.
- 23 So I'd like to talk a little bit about some of
- 24 the details.
- 25 So, there was a really stunning oral interview

```
1 by Bill -- with Bill Warne, who was the DWR Director at
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- 2 the time that the water contracts were issued.
- 3 And I -- I quote it in my testimony.
- 4 Bill Warne literally states (reading):
- 5 "We were only in a position to
- 6 guarantee, even with Oroville Dam, about
- 7 half of the 4 million acre-feet without
- 8 additional works."
- 9 And his interviewer Chall says (reading):
- "Only half; I didn't realize that."
- 11 And he says (reading):
- "Unless we could augment the
- 13 supply."
- 14 And he literally says that they needed to
- 15 augment the supply on the -- on the Sacramento River.
- And this was going to be augmented by the
- 17 Dos Rios Dam but, as we know, that was never built.
- 18 So two years after the 1979 interview with
- 19 Bill Warne, DWR's Bulletin 76-81 found that the firm
- 20 yield -- which is in all the critically dry years --
- 21 the firm yield of the State Water Project was about
- 22 2.3 million acre-feet and projected to decrease to
- 23 about 1.6 to 1.8 million acre-feet per year by 2000.
- 24 And this was as a result of increased water years in
- 25 the areas of origin, maturity of contractual

1 obligations in the Central Valley Project, and other

- 2 prior rights.
- 3 My testimony cites my report, State Water
- 4 Project Water Supply, Why the State Water Project
- 5 Cannot Meet Contract Obligations.
- 6 The report details why DWR's north coast area
- 7 investigation, which investigated water supply from
- 8 many other north coast rivers, largely failed. And the
- 9 promised extra upstream water supplies for the State
- 10 Water Project contracts never appeared.
- 11 So in . . . The -- One of the impacts of
- 12 this -- And I'd like to, if possible, go to Page 5 of
- 13 my testimony, to a graph and display that, Exhibit
- 14 DDJ-8, Page 5.
- One of the impacts of this was --
- 16 CO-HEARING OFFICER DODUC: It will be .pdf
- 17 Page 6.
- 18 WITNESS DES JARDINS: Oh, thank you.
- 19 MR. BAKER: Also, this is Friends of the River
- 20 FOR-8?
- 21 WITNESS DES JARDINS: FOR-8.
- 22 So this is documented in my report on the
- 23 reservoir operations. This was shown in -- In Part 1,
- 24 I testified on this, so I . . .
- 25 This -- There is a fairly clear change around

- 1 the mid-'80s between carrying over -- They used to
- 2 operate the State Water Project to meet demands in a
- 3 repeat of the 1928 to '34 drought.
- 4 And this documents that what they did was
- 5 change to just take the water supply up front to -- to
- 6 maximize deliveries and risk draining Oroville and --
- 7 if there is a multiyear drought.
- 8 So the next graph I'd like to go to is on
- 9 Page 6 of my testimony.
- 10 This is from my report on State Water Project
- 11 Water Supply. This is directly out of a spreadsheet
- 12 that DWR provided in this hearing.
- So, this is actually a graph that shows the
- 14 contract report and then the requested amounts from the
- 15 State Water Project and the approved deliveries.
- 16 But what you can see is, as -- as they ramp
- 17 up, when they get to the full contract demands, it
- 18 starts oscillating much more widely. And I believe
- 19 this is partly due to this really pushing Oroville
- 20 Reservoir to try and meet these demands when they don't
- 21 have enough upstream supply.
- 22 And, so, some of the swings, I would argue,
- 23 are because of this imbalance between the up -- the
- 24 full upstream supply and the contract demands.
- 25 And one of the things is, there's -- there's

- 1 an issue of whether the State Water Project is carrying
- 2 over enough water in Oroville to meet area-of-origin
- 3 obligations in a multiyear drought.
- 4 My testimony cites the 1986 Coordinated
- 5 Operating Agreement EIR, which stated that the State
- 6 Water Project and Central Valley Project were
- 7 committing 2.3 million acre-feet Project yield to
- 8 supply Delta outflow during critical periods.
- 9 The EIR/EIS also stated that if Delta outflow
- 10 requirements were being met, then all other in-basin
- 11 use requirements are being met.
- 12 But it's unclear from the experience in the
- 13 recent drought whether there's still 2.3 million
- 14 acre-feet of Project yield being committed for
- 15 availability during critical periods.
- 16 And I believe it's very significant for the
- 17 Board's decision that the Coordinated Operating
- 18 Agreement between the Department of Water Resources and
- 19 the U.S. Bureau of Reclamation is subject to change in
- 20 the future.
- 21 My testimony also cites Water Code 138.10,
- 22 which directed that the Department of Water Resources
- 23 prepare a plan to meet -- to meet permitted license
- 24 conditions, including Decision 1641 requirements,
- 25 and -- and submit that plan to the State Water Board.

- 1 And that plan is inc -- submitted here,
- 2 Exhibit FOR-104. And I looked in there -- Once I
- 3 realized that this change had happened for any
- 4 discussion about carryover storage and I could find
- 5 nothing.
- 6 It was not disclosed. The risks taken with
- 7 carryover storage were not disclosed in this formal
- 8 plan submitted to the State Water Board and if -- they
- 9 just discussed, you know, statistics about past
- 10 compliance.
- 11 And, you know, I argue that carryover storage
- 12 here is essential to being able to meet these
- 13 obligations.
- I also wanted to show that the -- So I --
- 15 There's a very early report in 1970 Department of
- 16 Fish & Game.
- 17 Let's put up the graph on Page 9.
- 18 (Exhibit displayed on screen.)
- 19 WITNESS DES JARDINS: This -- I provided this
- 20 report and this -- I was really struck by this. It
- 21 showed the Delta flows after the Central Valley Project
- 22 came online but before the State Water Project was
- 23 completed.
- 24 And it shows -- The first graphic shows sort
- 25 of -- on the far left shows the normal direction of

1 flow, which is all towards the . . . towards Chips

- 2 Island and Jersey Point.
- 3 And then the -- the center one shows with
- 4 pumping, and shows Old and Middle River flows but with
- 5 the San Joaquin River still flowing normally.
- 6 And the right shows where there's so much
- 7 pumping that the San Joaquin River has reversed.
- 8 And this is, I believe, literally related in a
- 9 way to -- These happen in conditions where there's just
- 10 not enough natural flow going there, so the pumps
- 11 reverse the flow on the San Joaquin River. And I
- 12 believe this is related to the lack of augmentation of
- 13 the Sac River flows which would naturally flow down and
- 14 allow there to be this positive flow.
- 15 So there's some very real problems that the
- 16 State Water Project has had because this extra roughly
- 17 900,000 acre-feet of water supply that was assumed in
- 18 Decision 1275 never -- never appeared.
- 19 And a lot of it's been blamed on the
- 20 Endangered Species Act, but the water supply has
- 21 impacts. It has impacts on ability to meet water
- 22 quality requirements and clearly on on-flow reversals,
- 23 unfavorable flow reverses. So -- And the issue is,
- 24 this is only going to get worse.
- 25 And my last part: I've tried to find an

- 1 estimate of how much increased outflow will be needed
- 2 to repel salinity with sea-level rise, and the best I
- 3 could find was this 2008 PPIC study.
- 4 And they found that at one foot of sea-level
- 5 rise, you need about an extra 475,000 acre-feet a year
- 6 of additional outflow to meet salinity at the Western
- 7 Delta.
- 8 And, you know -- Then -- And there's the other
- 9 issue. The BDCP WaterFix modeling assumes an extra
- 10 483,000 acre-feet a year of North-of-Delta demand by
- 11 2030. So, together -- I added it up -- it's 958,000
- 12 acre-feet in future area-of-origin needs, almost a
- 13 million acre-feet.
- 14 And there's a real question of, you know,
- 15 where this is going to come from. And draining the
- 16 reservoirs attempting to continue the same level of
- 17 exports in the face of these kinds of future conditions
- 18 would be disastrous.
- 19 But as Rob Stork will testify, simply
- 20 increasing diversions to storage north of the Delta
- 21 will also have severe impacts.
- 22 So, finally, I'd like to say that I believe
- 23 that any public trust or public interest analysis for
- 24 the WaterFix Change Petition must really weigh where,
- 25 you know, these future need and where the water's going

1 to come from and -- and not kick the can down the road.

- 2 Thank you.
- 3 MR. WRIGHT: And turning to Ron Stork.
- 4 Is FOR-Exhibit 1 a true and correct copy of
- 5 your qualifications?
- 6 WITNESS STORK: Yes, it is.
- 7 MR. WRIGHT: And is FOR Exhibit 2 a true and
- 8 correct copy on which your written testimony?
- 9 WITNESS STORK: Yes, it is.
- 10 MR. WRIGHT: And would you now please
- 11 summarize your testimony for the Hearing Officers.
- 12 WITNESS STORK: Well, just for the record, I
- 13 want to let you know that I also communicated by
- 14 bicycle today.
- 15 (Laughter.)
- 16 WITNESS STORK: There are probably a few
- 17 others here, too, as well.
- 18 My testimony's pretty simple and I also think
- 19 it's -- will be fairly uncontroversial. These facts
- 20 that we're going to discuss are widely known to folks
- 21 in this room.
- 22 So, I also want to thank you guys for letting
- 23 he me paw through dusty old books and Friends of
- 24 River's library, and old files, just to kind of find
- 25 some interesting things about the Projects that we're

- 1 talking about here.
- 2 Clearly, the WaterFix has historical roots and
- 3 present and future implications.
- 4 If we look at the situation today, we have
- 5 both Petitioners have more demand than their historic
- 6 deliveries, and the face value of their water rights
- 7 are not limiting their diversions.
- 8 Pumping constraints and geographic realities
- 9 in the Delta, including biological realities, have been
- 10 a limitation on South-of-Delta deliveries.
- 11 That sometimes has implications to the
- 12 reliability of water in the north state, as water that
- 13 can't be exported is sometimes -- ends up in reservoirs
- 14 in the north state.
- 15 And, as others have testified, deeper
- 16 reservoirs mean deeper coldwater pools, the more
- 17 extensive coldwater pools. And that has implications
- 18 to the fisheries downstream of them.
- 19 Much of the -- the water history of the last
- 20 half century or more has been the quest to avoid the
- 21 limiting factors of Delta transport.
- One of the early attempts at trying to deal
- 23 with the issue of -- of the Federal and State Projects
- 24 and resources in the north state was the adoption of
- 25 the area-of-origin statutes in -- in California which

- 1 are State law.
- 2 And I discussed a recent common-sense, I
- 3 thought, conclusion of some litigation brought by some
- 4 north state interests who were hoping that they could
- 5 convince the Courts -- Federal Courts that there was
- 6 some obligation within the Project, within the CVP, to
- 7 have essentially preferential deliveries to the area of
- 8 origin as opposed to the export world.
- 9 And the -- the Court essentially said no, the
- 10 Projects have discretion to make deliveries within
- 11 their policies and if they're -- if they wish to
- 12 equalize them, they can.
- 13 There's no -- The area-of-origin statutes
- 14 don't apply within the CVP and, by extension, within
- 15 the State Water Project; that is, how you allocate or
- 16 don't allocate water to your Contractors within your
- 17 water right.
- 18 That was, as I said, not a particularly
- 19 remarkable conclusion. It -- It -- But it was candid
- 20 in the sense that it recognized that physical and
- 21 geographic realities are a perfectly kosher opportunity
- 22 and explanation for differential deliveries to
- 23 differential Contractors.
- 24 And, of course, it's these physical and
- 25 geographic realities that have been -- that are to a

- 1 large degree the subject of -- of your decision about
- 2 the WaterFix here.
- 3 And -- And I think I argue that in the -- the
- 4 testimony that, to some degree, these physical and
- 5 geographic realities have -- have been a surrogate for
- 6 the operative words of the watershed protection
- 7 statutes, that prior right to all water reasonably
- 8 required to adequately supply the beneficial needs of
- 9 the watershed area or any of the inhabitants or
- 10 property owners thereof -- or therein is -- is -- is
- 11 the area -- is the core message of that particular
- 12 origin statute.
- 13 When -- When, you know, watershed -- You
- 14 can -- You can use your judgments. There's -- They're
- 15 contrasting it with two individuals and property
- 16 owners, and many have argued that -- that public trust
- 17 values in the -- in the watershed are meaningful as
- 18 well.
- 19 We also note that -- that -- that the ability
- 20 to make discretionary policy changes about deliveries
- 21 is something that the Projects have cherished and --
- 22 and -- and indeed like to have. You know, it's Project
- 23 flexibility.
- 24 And it's not uncommon for trade-offs to be
- 25 made between essentially reliability of -- of coldwater

1 pools and deliveries in the north state versus the

- 2 export demands in the south state.
- 3 And if you're looking for a . . . to maximize
- 4 yield average deliveries happen -- You can increase the
- 5 average deliveries when you exercise reservoirs more
- 6 fully; i.e., get them up, get them down, and capture
- 7 the water and get it south.
- 8 Going on in more detail, we -- we -- the
- 9 testimony talks about, you know, once again, water
- 10 rights for both Projects routinely exceed deliveries;
- 11 therefore, they're not a constraint. That certainly
- 12 happens within the State Water Project, as Deirdre
- 13 talked about.
- 14 And the State Water Project is not complete.
- 15 It has at least one major unconstructed authorized
- 16 Project south of the Delta, Los Banos Grandes, a large
- 17 offstream storage reservoir south of the existing
- 18 San Luis Reservoir.
- 19 The State Water Project is also, I identified,
- 20 is a customer for water in the Federal EISs at
- 21 Temperance Flat and -- and the Shasta Dam raise.
- 22 In the context of their Permit extension --
- 23 that is, the CVP's Permit extension request -- we note
- 24 that Reclamation maintains it's not possible to predict
- 25 future operations and deliveries, and that current

- 1 demands may not reflect CVP future build-out
- 2 conditions, which I think is an important thing for you
- 3 to consider when you contemplate the reliability of
- 4 your -- of modeling, essentially the guesses on what
- 5 the implications of -- of the WaterFix will be.
- 6 Reclamation also has a draft in front of it,
- 7 feasibility reports out, for the Shasta Dam raise and
- 8 the sites of Temperance Flat Dams.
- 9 The State Water Project is -- is -- and the
- 10 CVP, of course, are also identified in these -- these
- 11 major expansions.
- 12 Clearly, both Projects are aiming to be bigger
- 13 and serving more demand than they do today. And it
- 14 makes it hard to oper -- model operations.
- 15 The -- The CVP operations affect at least one
- 16 state and Federal wild and scenics river -- that would
- 17 be the Lower American River -- and the Board not only
- 18 has an obligation to try and . . . comply with the $\ensuremath{\text{--}}$
- 19 the -- the law with regard to area-of-origin statutes,
- 20 but also the State Wild and scenic river statutes.
- 21 There are public trust issues there that have
- 22 been testified to by the Water Forum which I think
- 23 are -- are significant.
- 24 And then reaching back into the history of
- 25 this Project, the project being a transfer of water

1 across the Delta, the north state rivers have long been

- 2 part of the drama of this Project.
- 3 The peripheral canal, the -- you know, the
- 4 Dukes Ditch, and the various incarnations of this
- 5 Project have been seen as the highway to the north
- 6 state. Some of those north state rivers -- and this is
- 7 where our library is really rich -- involve the north
- 8 coast rivers that are -- were cur -- are currently part
- 9 of the Federal and State water river systems.
- 10 The Peripheral Canal was actually kind of
- 11 tied -- kind of? -- it was legislatively tied to a --
- 12 essentially a two-thirds vote requirement in the
- 13 legislature to -- to undue wild and scenic river
- 14 protection for the State wild and scenic rivers that
- 15 passed and then later didn't pass because of a
- 16 complicated set of historic stuff back in the early
- 17 '80s.
- 18 And -- And folks have not forgotten that.
- 19 Tulare County Board of Supervisors recently asked for
- 20 the north coast rivers to be undesignated as state wild
- 21 and scenic rivers so that we can get the water down to
- 22 Tulare County.
- 23 And if that's your focus, then -- then they're
- 24 right. There -- A lot of the missing yield of the --
- 25 of the State Water Project is -- is right there.

- 1 There's also been an interest on the part
- 2 of . . . export interest to -- to build reservoirs or
- 3 expand reservoirs in . . . in the north state that are
- 4 not north coast rivers. Sites Reservoir is one current
- 5 one, though it's been in our files for a long, long,
- 6 long time.
- 7 And, you know, at one time, some of these
- 8 offstream storage reservoirs were slated to take north
- 9 coast river water and put them there. Instead, Sites
- 10 is being reviewed to, if it's -- if it's approved, to
- 11 augment water flows in the Sacramento by taking
- 12 Sacramento River water in one season and delivering it
- 13 in another season.
- 14 You have yet to have to deal with the water
- 15 rights for that issue, but I suspect that you will find
- 16 that it will be challenging, and that it will be an
- 17 important task to sort out.
- 18 The reason why I bring that up is the
- 19 delightful candor of the General Manager of the
- 20 Metropolitan Water District of Southern California who
- 21 is a major State Water Project Contractor, saying that,
- 22 in an interview that happened -- a public interview
- 23 that happened here in Sacramento, that -- that Sites
- 24 Reservoir makes absolutely no sense unless he has the
- 25 tunnels. He can't get the water from there to the

- 1 south state.
- 2 So, from his perception, that's a reason why
- 3 you should endorse the WaterFix. But at least from the
- 4 perspective of folks concerned about north state water
- 5 resources being dedicated to -- further dedicated to
- 6 south state demand, that that's a rather direct
- 7 admission of the key significance of this Project.
- 8 And I'll note that I don't see, at least in
- 9 the Draft EIR, much of a way of protecting north state
- 10 water there.
- 11 The Shasta Dam raise, of course, is illegal
- 12 under State law. And we had some -- some delightfully
- 13 candid remarks by the General Manager and Chief Counsel
- 14 of the . . . Westlands Water District essentially
- 15 saying, you know, we -- we bought the Bollibokka Water
- 16 Club, the hunting club there, so that nobody would
- 17 object to raising Shasta Dam.
- 18 There was also Jason Peltier, who was
- 19 Assistant General Manager then at Westlands, said:
- 20 Well, you know, really our priority is getting the
- 21 tunnels before raising Shasta Dam because of obvious
- 22 reasons.
- 23 You -- You all folks do have an obligation
- 24 to . . . in your routine conduct of business, to
- 25 protect rivers that are protected in the State Wild and

1 Scenic Rivers Act, which includes the McCloud, which is

- 2 why raising Shasta Dam is illegal.
- 3 So that's a -- that's another implication
- 4 of -- of this Project before you.
- 5 And, finally, I will just note, remembering
- 6 that our testimony was prepared some number of months
- 7 ago, that there's a fair amount of chaos in -- in what
- 8 project might actually be constructed, or the way in
- 9 which it's constructed, one tunnel, two tunnels.
- 10 And that -- We know that that's a po --
- 11 there's a possibility that you're essentially being
- 12 asked to approve a project for which part of it, or
- 13 perhaps all of it, is put into cold storage while the
- 14 financing and other things arranged.
- 15 So --
- 16 CO-HEARING OFFICER DODUC: Just --
- 17 WITNESS STORK: -- thank you.
- 18 CO-HEARING OFFICER DODUC: -- a moment.
- 19 Miss Morris.
- 20 MS. MORRIS: Yeah. I would just object to
- 21 that --
- 22 CO-HEARING OFFICER DODUC: Microphone?
- MS. MORRIS: Sorry. This one's really
- 24 sensitive (indicating microphone).
- I would just object to that last statement.

- 1 It wasn't in his testimony, as he indicated.
- 2 He was basing that statement on things that
- 3 have happened in the past. And, again, the Board has
- 4 ruled that there would be a Part 3 if there was staged
- 5 construction, and that all of that evidence would occur
- 6 in Part 3 of this hearing.
- 7 CO-HEARING OFFICER DODUC: Any response,
- 8 Mr. Wright?
- 9 MR. WRIGHT: Yes. I think you can take --
- 10 CO-HEARING OFFICER DODUC: I'm sorry. Your
- 11 phone -- microphone.
- 12 MR. WRIGHT: Yes. Thank you.
- 13 Yes. I think you can take judicial notice of
- 14 the obvious and that the Board has heard about this
- 15 in -- in numerous filings in the recent weeks.
- 16 CO-HEARING OFFICER DODUC: I'm sorry. I don't
- 17 understand that.
- 18 MR. WRIGHT: I believe Mr. Stork's testimony
- 19 simply related to -- that amplifying his testimony
- 20 about cold storage, that events since his testimony,
- 21 the date being November 30th, that's simply been
- 22 further amplified and underscored by recent events.
- MS. MORRIS: I don't think you can take
- 24 judicial notice of newspaper articles or statements.
- 25 So, again, I would just move to strike that as

- 1 inappropriate and outside the scope of Phase 2.
- 2 CO-HEARING OFFICER DODUC: Did you have
- 3 something to add, Miss Meserve?
- 4 MS. MESERVE: Yes.
- 5 I guess I just want to make clear that
- 6 Mr. Stork has a discussion about phased construction in
- 7 his testimony, and I think he's -- he should be able to
- 8 discuss it as long as he's within the scope of his
- 9 testimony. So . . .
- 10 CO-HEARING OFFICER DODUC: Well, I think
- 11 Miss Morris' objection is that he's discussing it in
- 12 the context of development since he submitted his
- 13 testimony.
- MS. MESERVE: And then I just want to make
- 15 sure also that I think that, on cross-examination or --
- 16 I mean, it doesn't really matter -- there's got to be
- 17 the ability to discuss what's in his testimony despite
- 18 the plan perhaps to have a Part 3. I don't see why
- 19 we'd be precluded from discussing that material.
- 20 CO-HEARING OFFICER DODUC: We'll cross that
- 21 bridge in cross-exam when we get to it.
- 22 But Miss Morris' objection is sustained.
- 23 WITNESS STORK: Well, I'll refer you to my
- 24 written testimony on cold storage --
- 25 CO-HEARING OFFICER DODUC: Yes.

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1 WITNESS STORK: -- which --
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- 2 CO-HEARING OFFICER DODUC: Without referencing
- 3 things that are not in your testimony.
- 4 WITNESS STORK: Exactly.
- 5 And I'm sure you'll -- you'll find it
- 6 interesting and relevant.
- 7 And that concludes my summary of my testimony.
- 8 MR. WRIGHT: All right. Turning now to Jonas
- 9 Minton.
- 10 Is Exhibit FOR-1 a true and correct copy of
- 11 your qualifications?
- 12 WITNESS MINTON: It is.
- 13 MR. WRIGHT: And is FOR Exhibit -- If I
- 14 said -- Did I say FOR Exhibit 5?
- 15 Yeah. Let me repeat the question.
- 16 Is FOR Exhibit 5 a true and correct copy of
- 17 your qualifications?
- 18 WITNESS MINTON: It is.
- 19 MR. WRIGHT: And is FOR Exhibit 6 a correct
- 20 copy of your testimony?
- 21 WITNESS MINTON: It is.
- MR. WRIGHT: Okay. Now, would you please
- 23 summarize your testimony.
- 24 WITNESS MINTON: Good morning.
- I was trying to remember before my testimony

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1 was prepared whether Andy Sawyer or I were the first
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- 2 ones to bicycle commute to this building back in the
- 3 early 1970s. I'm not sure, so I cannot swear to that.
- 4 But I also --
- 5 CO-HEARING OFFICER DODUC: If we continue this
- 6 in May, which is bicycle month, we will have to have a
- 7 daily contest, I believe.
- 8 (Laughter.)
- 9 WITNESS MINTON: Well, thank you.
- 10 In preparing my testimony, I started by
- 11 reviewing the State Board's statement on public trust
- 12 considerations that's posted on your website.
- 13 They're so relevant, they're the only
- 14 sentences I will quote verbatim from my testimony
- 15 (reading):
- 16 "The difficulty comes in balancing
- 17 the potential value of a proposed or
- 18 existing water diversion with the impact
- it may have on the public trust. After
- 20 carefully weighing the issues and
- 21 arriving at a determination, the Board is
- 22 charged with implementing the action
- 23 which would protect the latter."
- 24 That being public trust.
- 25 (Reading):

1	"As with all the other pieces of the
2	California water puzzle, allocating the
3	limited resource fairly and impartially
4	among all (sic) competing water (sic)
5	users represents one of the Board's
6	greatest challenges."
7	To help the Board meet this challenge, my
8	testimony references three of the solutions found in
9	the Planning & Conservation League's eight affordable
10	water solutions published in March 2010 (indicating).
11	First, my testimony describes how California
12	can safely increase recycled water.
13	I note that in 2010, PCL sponsored Senate Bill
14	918, with which you're familiar. This legislation
15	required adoption of uniformed water recycling criteria
16	for indirect potable use for groundwater recharge; also
17	required development of uniform criteria for potable
18	reuse for surface water augmentation; and it required a
19	feasibility study of whether regulations could be
20	written for direct potable use.
21	The Board has adopted uniform criteria for the
22	indirect potable reuse, and you've completed a study of
23	the feasibility of developing criteria for direct

25 These criteria are going to help the Board and

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24 potable reuse in the future.

1 California meet the goals that you've established.

- 2 Those are: Increasing (reading):
- 3 "... Water recycling (sic) ... over
- 4 the 2000 levels by at least 1 million
- 5 acre-feet . . . by the year (sic) 2020
- 6 and . . . 2 million acre-feet by the year
- 7 (sic) 2030."
- 8 As it turns out, your actions are already
- 9 spurring action. The City of San Diego will start
- 10 construction next year on its pure water project. They
- 11 expect to recycled water to meet a third of the city's
- 12 drinking water by the year 2030. That date happens to
- 13 be the same date, the very best case, that WaterFix
- 14 could be online.
- 15 The City of Los Angeles and Metropolitan Water
- 16 District are discussing how to recycle as much as
- 17 168,000 acre-feet per year of water.
- 18 That's one of the ways that LEDWP will meet
- 19 Mayor Garcetti's goal of reducing the purchase of
- 20 imported water by 50 percent by the year 2024.
- 21 2024, again, is six years before the earliest
- 22 date that WaterFix could be online.
- 23 Similarly, Orange County Water District is
- 24 expanding its recycled project to 130 million gallons
- 25 per day. That's on the way to their goal of supplying

- 1 about 40 percent of all water needed in Orange County.
- 2 My testimony then turns to this third solution
- 3 that PCL proposed: Adopting and enforcing numeric flow
- 4 water quality standards for the Delta.
- 5 My testimony notes one of the conundrums I
- 6 think that you've been facing in this hearing. With no
- 7 adopted Delta Flow Criteria against which to evaluate
- 8 the WaterFix Petition, there has been an endless do
- 9 loop of futility.
- 10 I suggest, to correct this irregularity, the
- 11 State Board could take suggestions for appropriate
- 12 Delta Flow Criteria in Part 2 and decide on appropriate
- 13 Delta Flow Criteria.
- 14 This would allow the Petitioners and the
- 15 Protestants to intelligently and factually provide you
- 16 with the necessary information on the impacts of the
- 17 Project.
- 18 Next, my testimony addresses our sixth
- 19 recommended action (reading):
- 20 "Consider alternative future uses of
- 21 drainage-impaired lands in the
- 22 San Joaquin Valley."
- 23 And this goes to your responsibilities under
- 24 the Public Trust Doctrine to look at the long-term
- 25 viability of different water uses.

- 1 My testimony cites the findings of Dr. Jay
- 2 Lund, the public policy and Institute of California and
- 3 the California Dairy Council -- pardon me -- Dairy
- 4 Research Foundation.
- 5 They've all found that significant amounts of
- 6 irrigated agricultural lands will be retired.
- 7 In doing your public trust balancing, you
- 8 should weigh the benefits of a project to temporarily
- 9 supply water to lands that will be going out of
- 10 production at the expense of all other long-term uses.
- 11 My testimony then moves to a different
- 12 approach to the coequal objectives. I note that the
- 13 contention WaterFix has engendered at least 30 lawsuits
- 14 by at least 82 plaintiffs.
- 15 Westlands Water District and Santa Clara
- 16 Valley Water District voted not to fund their share of
- 17 the Project. Kern County Water Agency voted to pay
- 18 only half its share.
- 19 In all of this, perhaps the biggest flaw in
- 20 the entire BDCP WaterFix approach was to tell
- 21 stakeholders and regulators what they should support.
- This is sometimes called the DAD Method:
- 23 Decide, Announce and Defend.
- 24 My testimony then contrasts that with the ad
- 25 hoc effort in 2012 known as the Coalition to Support

- 1 Delta Projects.
- 2 Instead of someone telling them what they
- 3 should support, they were asked what projects could be
- 4 broadly supported.
- 5 In a remarkable -- Because I'm remarking on
- 6 it, it's remarkable.
- 7 In a remarkable six-month highly facilitated
- 8 collaborative open, transparent process, 37 . . . key
- 9 stakeholders ended up signing a letter supporting 43
- 10 specific projects to move forward. These include a mix
- 11 of projects to improve water supply reliability,
- 12 improve the Delta ecosystem, and enhance Delta as
- 13 place.
- In my 40 now years of water, I am unaware of
- 15 any letter that has supported specific projects and is
- 16 signed by that range of stakeholders, including Jason
- 17 Peltier, Barbara Barrigan-Parilla, Roger Patterson,
- 18 Supervisors from all five Delta counties, with their
- 19 support, these water supply reliability ecosystem Delta
- 20 as place projects, many of which have been moved
- 21 forward.
- 22 Although this was a significant
- 23 accomplishment, by the end of 2012, the Bay-Delta
- 24 Conservation Plan was polarizing stakeholders and began
- 25 consuming all of their time and attention.

1 It was decided that the Coalition could not

- 2 make further progress at that time.
- 3 My testimony concludes with the example of the
- 4 Sacramento Water Forum.
- 5 After years of fighting among themselves,
- 6 Water Districts in three counties, environmentalists,
- 7 units of local government, business groups and
- 8 taxpayers' association engaged in a collaborative
- 9 process to meet their mutually identified coequal
- 10 objectives.
- 11 These may sound familiar.
- 12 The first which provide a reliable and safe
- 13 water supply for the Sacramento Region's long-term
- 14 growth and economic health.
- The second was to preserve the fishery
- 16 wildlife, recreational and esthetic values of the
- 17 American River.
- 18 More than 15 years after they unanimously
- 19 signed this 30-year agreement, Water Forum members have
- 20 an impressive record, I believe, of implementing
- 21 projects that are preserving our environmental
- 22 resources and providing for the water supply
- 23 reliability.
- 24 This precedent of coequal objectives was
- 25 actually followed in the Delta Reform Act, as we know

- 1 it has coequal objectives.
- 2 Unfortunately, the precedent of open,
- 3 inclusive, collaborative working together was not
- 4 followed by BDCP or the WaterFix processes.
- 5 In evaluating whether to approve the WaterFix
- 6 Petition, and whether it's in the public interest and
- 7 properly balances public trust, it's appropriate for
- 8 you to recognize an alternative approach is possible:
- 9 Collaborative efforts, such as the Coalition to Support
- 10 Delta Projects, and the Sacramento Water Forum work,
- 11 where there is a fair, inclusive and transparent
- 12 process.
- 13 That concludes my testimony.
- 14 Thank you.
- 15 MR. WRIGHT: Turning now to our concluding
- 16 witness, Dr. Larry Kolb.
- 17 Is FOR Exhibit 3 a true and correct copy of
- 18 your qualifications?
- 19 WITNESS KOLB: Yes, it is.
- 20 MR. WRIGHT: And make sure you push that
- 21 button so you can see the green light on your speaker
- 22 (sic).
- 23 And is FOR Exhibit 4 a true and correct copy
- 24 of your testimony?
- 25 WITNESS KOLB: Yes, it is.

- 1 MR. WRIGHT: And now would you please
- 2 summarize your testimony for the Hearing Officers.
- 3 WITNESS KOLB: Yes.
- 4 I -- I began my employment with the Regional
- 5 Water Quality Control Board for the San Francisco Bay
- 6 Region in 1973, and I worked for 33 years, 300 Board
- 7 meetings.
- I rode a bike to work every day, practically,
- 9 of that period. I have 50,000 lifetime -- I only had
- 10 one accident that was my fault, so it can be done.
- 11 When I began my employment, the talk at the
- 12 Board was talk about the Porter-Cologne Act which had
- 13 been passed a few years earlier, and the method that
- 14 that Act specified, which was to identify beneficial
- 15 uses, water quality objectives and, finally, effluent
- 16 limits.
- 17 This was thought to be a bonanza for
- 18 consultants because it was arguable at every step of
- 19 the way.
- Then, in the fall of 1972, Congress passed
- 21 over a Presidential veto the first version of what is
- 22 now called the Clean Water Act. That basically took a
- 23 different approach for the most important elements of
- 24 the act.
- 25 And it said that we're going to use

1 technology-based limits. EPA is supposed to identify

- 2 effluent limits that are achievable using a couple of
- 3 different levels of technology, and those effluent
- 4 limits were to be reflected in NPDES Permits.
- 5 And the permitting process was delegated to
- 6 states that have suitable qualifications, the first of
- 7 which was California. So the first NPDES Permits in
- 8 the country, I think, were done in California.
- 9 The . . . In those early years of the permit
- 10 program, I wrote permits. I then supervised people who
- 11 prepared permits, defended Permits at Board hearings.
- 12 It was a time of great adversarial heat. Many
- 13 of the permits were appealed, especially by the oil
- 14 refineries and the steel company. It was not a
- 15 consensus project.
- 16 On the other hand, it worked. There was a
- 17 major dramatic decrease in pollutants entering San
- 18 Francisco Bay because of the Clean Water Act.
- 19 The money spent on this amounted to several
- 20 billion dollars, even in 1970's dollars. And I think
- 21 people had wondered, was that investment worth it if
- 22 we're going to write off the fish that this stuff was
- 23 supposed to protect?
- 24 And this -- The main driver of Permits was --
- 25 was protecting the biology. And if the biology is not

- 1 worth saving, maybe we wasted it.
- 2 I understand the State Board is considering
- 3 using adaptive management which I believe, from
- 4 experience personally, is more slogan than method.
- 5 It's learn while doing.
- 6 And that may be something, for example, how
- 7 you respond to -- I don't know -- a nuclear bomb or
- 8 some other dramatic, unexpected thing, but it's a --
- 9 it's a poor substitute for predictable consequences.
- 10 We already have a better model and one that we
- 11 know works, which is the State Board's existing process
- 12 for flow standards and for water quality standards.
- We've got a template that works. Why don't we
- 14 use it?
- The second point is that the tunnels would
- 16 magnify pollutant impacts. We've seen this
- 17 unprecedented catastrophic decline, called the pelagic
- 18 organism decline, or the pod. It's just extraordinary.
- 19 Like the whole system just gave up and died. It's not
- 20 quite gone, but it's -- it's just incredible.
- 21 The Bay species that are involved include the
- 22 Longfin Smelt, the Starry Flounder, Bay Shrimp. The
- 23 POD study group concluded that the major driver for
- 24 this decline was flow, reductions in flow.
- 25 The flow of water in the Delta, why does it

- 1 matter so much?
- Well, in two ways: One is that flow provides
- 3 dilution. More dilution means lower concentrations.
- 4 A second consequence is pollutant transport.
- 5 Flow is what you need to move the pollutants downstream
- 6 towards the Golden Gate and the vast expanses of the
- 7 oceans.
- 8 Lessening fresh water outflow, which the
- 9 Tunnel Project would allow, would increase both
- 10 pollution concentrations and residence time in the
- 11 Delta. These two factors would allow pollutant impacts
- 12 to soar.
- I think one of those pollutant impacts we're
- 14 already seeing, which is the POD, the Pelagic Organism
- 15 Decline. In other words, alarm bells are going off
- 16 loud and clear that what we're doing isn't good enough
- 17 and now we're talking about making it worse.
- 18 Another impact of special interest to me
- 19 includes selenium. By diverting more water out of the
- 20 Delta, there would be more available for agriculture,
- 21 including agriculture on the westside of the Delta,
- 22 like Westlands.
- 23 And irrigating these soils means that
- 24 you're -- it's -- you're making this bargain with the
- 25 deferable. You're taking selenate, which is a

- 1 relatively non-available, non-biologically available
- 2 version of selenium, and turning it first into selenate
- 3 when you put it with water, when you irrigate the land.
- 4 And then, later, it becomes organic, which makes it
- 5 really toxic. The differences between organic and
- 6 inorganic forms are huge.
- 7 So by taking still more water out of the
- 8 Delta, we're harming the Delta twice, once by reducing
- 9 outflow and, again, by irrigating toxic soils to create
- 10 toxic drainage.
- 11 My final point is that the State Water Board,
- 12 of which I've been a student for these many years, is
- 13 the right agency to resolve these hard questions.
- 14 The legislature knew what it was doing when it
- 15 created the State Board. Conflict of interest, fixed
- 16 terms, recorded public votes, all of that is the kind
- 17 of system to make the State Board independent as a
- 18 decision-maker.
- 19 It also creates independence for staff so that
- 20 there's expertise, continuity and transparency for
- 21 everything this Board does.
- The State agencies under the direct control of
- 23 the executives, such as the Department of Fish and
- 24 Wildlife, don't have these protections. In fact,
- 25 they've chronically been given regulatory

1 responsibilities without the necessary institutional

- 2 protections for independence.
- I have seen them steamrolled on at least one
- 4 occasion, where I was up close and personal, when the
- 5 State Board signed -- the Department signed off on a
- 6 project that all of the people who worked on it from
- 7 the Department's working level thought it was terrible.
- 8 So it's -- it's not the people in the
- 9 Department, unless you go high enough, and that --
- 10 that's where things don't go so well.
- 11 The difficult decisions, like the one before
- 12 the Delta, is why the State Board exists and why it has
- 13 these special protections from undue influence.
- I saw the State Board do many things over the
- 15 many years that I worked there, and since I retired. I
- 16 don't recall the State Board ever handing
- 17 responsibility to another agency.
- I don't know all the things that the State
- 19 Board's done but this just seems bizarre. This is a
- 20 central responsibility, and giving it to somebody else
- 21 is an abdication, a perversion, from the system that
- 22 the legislature created.
- I urge the State Board to take on this
- 24 responsibility, to do its job.
- 25 Thank you.

- 1 MR. WRIGHT: Thank you.
- 2 And that concludes the direct testimony this
- 3 morning on behalf of Friends of the River and Sierra
- 4 Club California.
- 5 CO-HEARING OFFICER DODUC: Thank you.
- 6 Why don't we take a short break before we
- 7 start with cross-examination by Department and State
- 8 Water Contractors. You guys can all rearrange
- 9 yourselves during the break.
- 10 And we will turn at 10:55.
- 11 (Recess taken at 10:38 a.m.)
- 12 (Proceedings resumed at 10:55 a.m.:)
- 13 CO-HEARING OFFICER DODUC: All right. It is
- 14 10:55. We are back.
- 15 And we have a joint cross by DWR and State
- 16 Water Contractors for about 60 minutes.
- 17 And then, Miss Meserve, when you requested 15,
- 18 which party were you making that request on behalf?
- 19 MS. MESERVE: Friends of the River -- Oh, I'm
- 20 sorry. For LAND.
- 21 CO-HEARING OFFICER DODUC: For LAND. Because
- 22 depending on which parties they are, that determines
- 23 your order.
- So then we'll have Miss Meserve for 10,
- 25 Herrick for 10 to 15, and Mr. Shutes for 30.

1 Depending on how quickly it goes, we may try

- 2 to get through this panel before our lunch break, but
- 3 it depends a lot on how quickly things go and how the
- 4 court reporter feels.
- 5 So with that, turning to you, Miss Morris and
- 6 Mr. Mizell.
- 7 MS. MORRIS: Thank you.
- 8 Just a quick overview of topics. I have
- 9 questions for each of the witnesses, largely regarding
- 10 the basis of their conclusions, and some slight
- 11 questions on qualifications.
- 12 DIRECT EXAMINATION BY
- MS. MORRIS: I'll start with Miss Des Jardeen
- 14 (phonetic).
- 15 WITNESS DES JARDINS: Yeah.
- MS. MORRIS: It's Jardins, right?
- 17 WITNESS DES JARDINS: Des Jardins, yes.
- MS. MORRIS: Thank you.
- 19 Looking at your FOR-7, which is your Statement
- 20 of Qualifications, are those the same Statement of
- 21 Qualifications you presented in Part 1 under DDJ-100?
- 22 WITNESS DES JARDINS: I believe it's -- it's
- 23 the same one, yes.
- MS. MORRIS: Okay. And your current position
- 25 is principal at California Water Research; correct?

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1 WITNESS DES JARDINS: Yes.
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- 2 MS. MORRIS: What is California Water
- 3 Research?
- 4 WITNESS DES JARDINS: I've been doing . . .
- 5 consulting and public interest comments since 2011. I
- 6 was a Senior Policy Advisor for Friends of Trinity
- 7 River in 2010.
- 8 But I started California Water Research
- 9 because it became clear that I needed to -- there
- 10 needed to be a vehicle to -- to work more
- 11 independently.
- 12 I have California Water Research as a -- an
- 13 ongoing blog, and we get donations, although I am not
- 14 nonprofit, yet.
- 15 CO-HEARING OFFICER DODUC: Miss Des Jardins,
- 16 if I might ask you to move the microphone closer to
- 17 you.
- 18 WITNESS DES JARDINS: I apologize for that.
- 19 I'm --
- 20 CO-HEARING OFFICER DODUC: Much better.
- 21 WITNESS DES JARDINS: -- a bit hoarse.
- 22 CO-HEARING OFFICER DODUC: Thank you.
- 23 MS. MORRIS: Okay. A couple followup
- 24 questions:
- You say you've done consulting. Who have you

1 done consulting -- who has California Water Research

- 2 done consulting for?
- 3 WITNESS DES JARDINS: Oh, gosh. It's pretty
- 4 long for me to . . .
- 5 MS. MORRIS: Is it listed on your SOQ?
- 6 WITNESS DES JARDINS: I have -- Yeah.
- 7 I did consulting for Friends of Trinity River,
- 8 for PCFFA when Zeke Grader was there, for Restore the
- 9 Delta.
- 10 I did a project -- Friends of the River had a
- 11 grant to look at the BDCP modeling.
- 12 I -- I'd have to pull up to look at
- 13 everything. I worked on a large number of projects.
- 14 And then, on my own, I looked at -- I began
- 15 analyzing climate change and climate change impacts.
- MS. MORRIS: Okay. Thanks.
- 17 I'm -- You said that Friend -- California
- 18 Water Research is a not-for-profit entity.
- 19 WITNESS DES JARDINS: No. We haven't gotten
- 20 the nonprofit status yet.
- 21 MS. MORRIS: And -- But you said donations
- 22 have been made.
- 23 WITNESS DES JARDINS: Yeah. To -- Donations
- 24 or payments. Mostly -- You know, I do -- The clients
- 25 that I have do not have a great deal of resources.

1 MS. MORRIS: So the donations are coming from

- 2 clients to do consulting or for -- from some other
- 3 source?
- 4 WITNESS DES JARDINS: Some -- Some are
- 5 donations to support California Water Research's own
- 6 work and some are contributions for work that
- 7 California Water Research is doing.
- 8 MS. MORRIS: Are you the only principal at
- 9 California Water Research?
- 10 WITNESS DES JARDINS: I'm the principal.
- We've worked with a number of other folks,
- 12 but, yes, I'm the principal.
- MS. MORRIS: Is there any other principal was
- 14 the question, not -- I know you are.
- 15 WITNESS DES JARDINS: Principal means, yeah,
- 16 principal.
- MS. MORRIS: So there's no other shareholders,
- 18 other people who have interest. Just you.
- 19 WITNESS DES JARDINS: Yeah.
- 20 MS. MORRIS: Okay. And do you have any
- 21 employees?
- 22 WITNESS DES JARDINS: Not employees. But we
- 23 have people we work with, like Dr. Tom Williams, who
- 24 was brought in Part 1.
- 25 MS. MORRIS: Okay. I'm just -- I'm really

1 asking very direct questions because I have a lot of

- 2 questions that I want to move through.
- 3 So if you could just try to focus on the
- 4 question. I'm, like -- I'm just asking if you have any
- 5 employees. I understand you may work with other folks,
- 6 but I'm asking if there are any direct employees.
- 7 WITNESS DES JARDINS: People who are paid?
- 8 Yes, I have paid people for -- for services associated
- 9 with California Water Research.
- 10 MS. MORRIS: Have you paid people to do
- 11 research or to help you come up with your pro -- draft
- 12 your testimony today?
- 13 WITNESS DES JARDINS: No.
- MS. MORRIS: Okay. What's the major source of
- 15 funding for California Water Research?
- 16 CO-HEARING OFFICER DODUC: Hold on,
- 17 Miss Des Jardins.
- 18 WITNESS DES JARDINS: Yeah.
- 19 MS. MESERVE: I would object as to the
- 20 relevance of this line of questioning. It appears to
- 21 be mostly financial, and I -- if -- I don't understand
- 22 what the relevance is to this proceeding.
- 23 CO-HEARING OFFICER DODUC: I'm curious as
- 24 well, Miss Morris.
- 25 MS. MORRIS: I believe it's relevant. And

1 because it may go to the weight of the evidence, I want

- 2 to understand who's funding California Water Research.
- 3 On behalf of whom are they advocating these positions.
- 4 And it's been unclear to me in this
- 5 proceeding. In some instances, Miss Des Jardins is
- 6 appearing as a person and, in other instances, making
- 7 claims on behalf of California Water Research.
- 8 And so I'm -- I'm almost done and I'm going to
- 9 move through the questions as quickly as possible.
- 10 CO-HEARING OFFICER DODUC: Overruled.
- 11 I believe I heard Petitioners' witnesses being
- 12 asked for whom they work, so . . .
- Go on, Miss Morris.
- 14 LEFT1: If I may respond just briefly. I
- 15 think these questions would be more appropriate if
- 16 she's testifying later on on behalf of California Water
- 17 Research as opposed to now when she's testifying on
- 18 behalf of Friends of the River and Sierra Club.
- 19 CO-HEARING OFFICER DODUC: We can do it now or
- 20 do it later. Lets just -- And since she's done,
- 21 anyway, let's move on.
- MS. MORRIS: I have a few more.
- 23 I don't think you answered the question about
- 24 the major source of funding.
- 25 Did I miss that response?

1 WITNESS DES JARDINS: Could -- Could you

- 2 repeat the question?
- 3 MS. MORRIS: What is the major source of
- 4 funding for California Water Research?
- 5 WITNESS DES JARDINS: For this appearance, I'm
- 6 appearing pro bono for Friends of the River.
- 7 MS. MORRIS: But my question was the
- 8 funding -- the major source of funding for California
- 9 Water Research as a whole, not just for your appearance
- 10 here today.
- 11 WITNESS DES JARDINS: It -- It really depends
- 12 on the project.
- But sometimes I get significant contributions
- 14 from, you know, environmental or fishing groups, and
- 15 sometimes the -- the projects for California Water
- 16 Research, I'm generally donating a significant amount
- 17 of time because I believe it's a -- it's a critical
- 18 need.
- 19 One of the things I did was predict the
- 20 California -- 2013-2016 drought, and I sent -- based on
- 21 model draft impacts, and I sent that to the Department
- 22 of Water Resources in 2012 saying there had been a once
- 23 in a thousand-year drought in New Mexico and a once in
- 24 a thousand-year drought in Texas.
- 25 And I thought I could come to California based

- 1 on the kind of forecasting or climate change impacts.
- 2 And the next year, it did, and DWR said, "Oh, we had no
- 3 way of knowing." And clearly they hadn't read this
- 4 very detailed synthesis of the climate change modeling
- 5 and -- and what -- what's -- was happening.
- 6 MS. MORRIS: Okay. Thank you.
- 7 That's really outside the scope of my
- 8 question.
- 9 MR. WRIGHT: I do object. Counsel's cutting
- 10 off the witness' answer.
- 11 WITNESS DES JARDINS: Yeah.
- 12 CO-HEARING OFFICER DODUC: Did you get the
- 13 answer?
- 14 MS. MORRIS: I did.
- 15 CO-HEARING OFFICER DODUC: Let's move on.
- MS. MORRIS: Okay.
- 17 CO-HEARING OFFICER DODUC: Thank you.
- MS. MORRIS: Are you receiving any funds for
- 19 your legal work on behalf of California Water Research?
- 20 WITNESS DES JARDINS: Yes.
- 21 MS. MORRIS: From who?
- 22 WITNESS DES JARDINS: I would prefer not to
- 23 discuss that.
- MS. MORRIS: I believe you're under oath and
- 25 that you have to answer the question.

- 1 MR. WRIGHT: May I hear the question again?
- 2 MS. MORRIS: The question was, who are you --
- 3 She's testified that she's receiving funds for legal
- 4 work on behalf of California Water Research, and I
- 5 asked from who.
- 6 MR. WRIGHT: Object to relevance.
- 7 And, again, she's not testifying today on
- 8 behalf of California Water Research.
- 9 MS. MORRIS: She tes -- She --
- 10 CO-HEARING OFFICER DODUC: Hold on.
- 11 I'm sorry, Miss Morris. Your question is
- 12 pertaining to the legal work?
- MS. MORRIS: Yes.
- 14 CO-HEARING OFFICER DODUC: Did you understand
- 15 that clarification, Miss Des Jardins? She's asking
- 16 about legal work.
- 17 WITNESS DES JARDINS: I'm not.
- 18 CO-HEARING OFFICER DODUC: You're not a
- 19 attorney.
- 20 WITNESS DES JARDINS: I'm not an attorney,
- 21 yeah.
- 22 MS. MORRIS: Okay. Miss Des Jardins, then do
- 23 you have a good funding site for discovery costs for
- 24 California Water Research?
- MR. WRIGHT: Objection to relevance.

1 This has nothing to do with her testimony on

- 2 behalf of Friends of the River and the Sierra Club.
- 3 CO-HEARING OFFICER DODUC: Miss Morris.
- 4 MS. MORRIS: I think it does. I think that
- 5 who she's receiving funding for, who she's providing
- 6 opinions for -- She said she's doing this pro bono but
- 7 in the past from Friends of the River, who she's
- 8 testifying here for today, she has received funds.
- 9 And I think it goes to -- potentially to the
- 10 weight of the evidence provided by this witness.
- 11 CO-HEARING OFFICER DODUC: Miss Des Jardins,
- 12 are you able to answer the question?
- 13 WITNESS DES JARDINS: There was an issue when
- 14 the Project became -- started changing rapidly, and
- 15 there was an error in the hearing ruling that the
- 16 Petitioners had promised in their written --
- 17 CO-HEARING OFFICER DODUC: I'm sorry. I'm
- 18 sorry. Where are you going with this?
- 19 WITNESS DES JARDINS: Well, just that I try to
- 20 raise some funds to call a -- Department of Water
- 21 Resources to provide more complete and accurate
- 22 information about how the Project was changing.
- 23 And that was because all of the testimony, as
- 24 you know, had already been submitted, and there was a
- 25 very real concern.

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1 CO-HEARING OFFICER DODUC: I'm sorry. Let me
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- 2 cut to the chase.
- 3 Did you receive funding for that purpose?
- 4 WITNESS DES JARDINS: I got a \$300 donation
- 5 from Central Delta Water Agency, which I have not
- 6 expended yet.
- 7 I don't know if we're going to be able to --
- 8 to do that. I don't know if other parties are going to
- 9 do that.
- 10 CO-HEARING OFFICER DODUC: All right.
- 11 MS. MORRIS: What about the \$2,500 donation
- 12 you received on GoFundMe for that purpose? Who was
- 13 that from?
- 14 WITNESS DES JARDINS: That was from my
- 15 husband.
- MS. MORRIS: On your Statement of
- 17 Qualifications -- just to try to clean this up and to
- 18 move quickly -- has anything changed in your formal
- 19 education since you testified in Part 1 in this
- 20 proceeding?
- 21 WITNESS DES JARDINS: (Examining computer
- 22 screen.)
- I would have to -- Let me go look at --
- MS. MORRIS: I'm actually not asking you to --
- 25 CO-HEARING OFFICER DODUC: Hold on. Hold on.

- 1 Miss Des Jardins, your Statement of
- 2 Qualifications cites a B.A. from U.C. Santa Cruz in
- 3 applied mathematics and a Ph.D. candidate from the
- 4 University of California Santa Cruz.
- 5 Has that changed?
- 6 WITNESS DES JARDINS: Did I say I was a
- 7 candidate or -- I mean, I completed everything but my
- 8 dissertation.
- 9 CO-HEARING OFFICER DODUC: That's what it
- 10 says.
- 11 WITNESS DES JARDINS: Yeah.
- 12 CO-HEARING OFFICER DODUC: Candidate from 1992
- 13 to 1997.
- 14 WITNESS DES JARDINS: Yes. That --
- 15 CO-HEARING OFFICER DODUC: That is correct?
- 16 WITNESS DES JARDINS: That is correct, yes.
- MS. MORRIS: Thank you.
- 18 Looking at your testimony, FOR-8.
- 19 WITNESS DES JARDINS: Yes.
- 20 MS. MORRIS: These are just general questions,
- 21 so I just want to direct you to that page if you --
- 22 It's the context in which I'm asking these questions.
- 23 You claim that Oroville carryover has not been
- 24 disclosed to the State Water Resource Control Board;
- 25 correct?

1 WITNESS DES JARDINS: Not that I could find,

- 2 and I did a very comprehensive search --
- 3 MS. MORRIS: Okay. Thank you.
- 4 WITNESS DES JARDINS: -- on the Water Board
- 5 website.
- 6 MS. MORRIS: Are you familiar with the
- 7 regulatory agency known as FERC?
- 8 WITNESS DES JARDINS: Yes.
- 9 MS. MORRIS: How about the Division of Safety
- 10 of Dams?
- 11 WITNESS DES JARDINS: Yes.
- MS. MORRIS: How about the Army Corps of
- 13 Engineers?
- 14 WITNESS DES JARDINS: Yes.
- MS. MORRIS: Are you aware that those agencies
- 16 have regulatory authority over dams, dams that operate
- 17 hydroelectric power and flood control?
- 18 WITNESS DES JARDINS: I'm familiar with the
- 19 Army Corps rule curves.
- 20 These -- These agencies that you cite -- I
- 21 mean, I worked with Ron Stork to look very closely,
- 22 when there was the Oroville spillway incident, at the
- 23 Army Corps rules and the Army Corps handbook and what
- 24 happened with relicensing, but that's different than
- 25 the carryover storage for the water supply.

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1 MS. MORRIS: Okay. And, again, I'm trying not
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- 2 to interrupt, but I -- I'm trying to ask specific
- 3 questions, and I may have to ask for more time if we
- 4 continue on this.
- 5 CO-HEARING OFFICER DODUC: (Nodding head.)
- 6 MS. MORRIS: Okay. And the State Water
- 7 Resources Control Board has regulatory jurisdiction
- 8 over certain water rights; correct?
- 9 WITNESS DES JARDINS: If you --
- 10 MS. MORRIS: Like --
- 11 WITNESS DES JARDINS: -- mean --
- MS. MORRIS: -- DWR and the Bureau's water
- 13 rights.
- 14 WITNESS DES JARDINS: If you mean post-1914
- 15 water rights, yes, that's correct.
- 16 MS. MORRIS: I'm being vague because I don't
- 17 want to start any arguments or have objections.
- 18 And the State Water Resource Control Board
- 19 sets water quality in the Delta to meet reasonable
- 20 beneficial uses through the Water Quality Control Plan;
- 21 correct?
- 22 WITNESS DES JARDINS: Yes.
- MS. MORRIS: So, hypothetically, just to -- by
- 24 way of analogy, you're required by law to carry a
- 25 specific standard amount of automobile insurance, but

1 the State doesn't tell you which company to buy from or

- 2 how to budget your money so that you can afford to
- 3 purchase insurance; do they?
- 4 WITNESS DES JARDINS: I'm sorry?
- 5 MR. WRIGHT: Objection: That's confusing and
- 6 unintelligible.
- 7 WITNESS DES JARDINS: Yeah. I -- I -- Could
- 8 you repeat the question? I'm really not following.
- 9 CO-HEARING OFFICER DODUC: Mr. Wright, I can't
- 10 hear you because . . .
- 11 MS. MORRIS: I'm happy to repeat the question.
- 12 CO-HEARING OFFICER DODUC: Repeat the
- 13 question, Miss Morris.
- MS. MORRIS: I'll break it into pieces.
- 15 You understand that you are required to carry
- 16 a specific standard amount of automobile insurance
- 17 under State law; correct?
- 18 WITNESS DES JARDINS: Yes.
- 19 MS. MORRIS: But the State doesn't tell you
- 20 which company to buy that insurance from; do they?
- 21 WITNESS DES JARDINS: Yes. No, they don't.
- MS. MORRIS: And they don't tell you how to
- 23 budget your money so you can afford to purchase that
- 24 insurance; do they?
- 25 WITNESS DES JARDINS: No, but I'm not sure I

- 1 agree with your analogy.
- 2 MS. MORRIS: Well, similarly -- You can
- 3 disagree with me.
- 4 Similarly, doesn't the State Water Resources
- 5 Control Board set the standards and enforce them, and
- 6 DWR decides how they will operate in order to meet
- 7 those standards, as well as the many other standards
- 8 DWR must meet.
- 9 MR. WRIGHT: Objection: That question is
- 10 compound and confusing and unintelligible.
- 11 CO-HEARING OFFICER DODUC: Well, I understood
- 12 it.
- 13 Are you able to answer, Miss Des Jardins?
- 14 WITNESS DES JARDINS: It is a compound
- 15 question, so there's two components.
- 16 Does the State Water Resources Control Board
- 17 set the standard? Yes.
- 18 The second part of the question is: Does the
- 19 State Water Resources Control Board enforce the
- 20 standards?
- 21 We're all familiar with the Temporary Urgency
- 22 Change Petition in the most recent drought.
- 23 If you look at the history of the SWP Permit,
- 24 there's TUCPs regularly. And it's -- It is an exhibit,
- 25 so --

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1 MS. MORRIS: Do the State Water Project --
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- 2 Does the State Water Project through DWR have the sole
- 3 responsibility to meet the Water Quality Control Plan
- 4 requirements?
- 5 WITNESS DES JARDINS: If you looked at the
- 6 Coordinated Operating Agreement, which was the
- 7 Board's -- you know, was what happened when it became
- 8 clear that both -- both the Bureau Permit -- The -- The
- 9 U.S. Bureau of Reclamation Permit assumed the full
- 10 unimpaired flow of the Feather River. There's an
- 11 agreement to share shortages.
- 12 And under that standard, the Bureau releases
- 13 75 percent of the stored water and they have the
- 14 majority of storage. And under that current COA, they
- 15 re -- the State Water Project has a 25 percent
- 16 obligation. So, yes, it's true that -- that the Bureau
- 17 has the majority.
- 18 The other thing I'd like to point out, though,
- 19 is that when Oroville is drawn down severely to close
- 20 to minimum pool, this -- the health and safety issues
- 21 were the main reasons cited in the DWR's application
- 22 for the 2013 Temporary -- or 2014 Temporary Urgency
- 23 Change Petition.
- 24 So --
- MS. MORRIS: Did you cite that?

- 1 WITNESS DES JARDINS: -- the M&I --
- 2 CO-HEARING OFFICER DODUC: Hold on.
- 3 WITNESS DES JARDINS: Yeah.
- 4 CO-HEARING OFFICER DODUC: One at a time,
- 5 please.
- 6 MS. MORRIS: Did you cite to that in your
- 7 testimony -- in regard to your testimony today?
- 8 WITNESS DES JARDINS: This is
- 9 cross-examination, Miss Morris.
- 10 MS. MORRIS: Right. But I didn't actually ask
- 11 you that question, so . . .
- 12 I would just move to strike the answer as
- 13 nonresponsive.
- 14 The question was simply: Does the State Water
- 15 Project through DWR have the sole responsibility to
- 16 meet Water Quality Control Plans?
- 17 And the answer was responsive.
- 18 CO-HEARING OFFICER DODUC: Miss Des Jardins, I
- 19 have to agree.
- 20 Let's go ahead and focus on the question that
- 21 was asked and let's focus your answer on that, please.
- MS. MORRIS: Looking at Page 5 of your
- 23 testimony in FOR-8.
- MR. WRIGHT: Let's have the Page 5 shown,
- 25 please, maybe.

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1 (Exhibit displayed on screen.)
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- 2 MS. MORRIS: I'm looking at the figure
- 3 and . . .
- 4 Miss Des Jardins, isn't it true that you used
- 5 this in your Part 1 testimony and that Miss Ansley
- 6 asked you several questions about this on
- 7 cross-examination?
- 8 WITNESS DES JARDINS: I -- There was -- I did
- 9 provide surrebuttal testimony in Part 1, yes.
- 10 MS. MORRIS: And you were questioned on these
- 11 graphs.
- 12 Do you recall that?
- 13 WITNESS DES JARDINS: I don't recall exactly
- 14 what the cross-examination was.
- MS. MORRIS: And aren't these demonstrating
- 16 examples of rule curves that could have been used but
- 17 were never adopted by the Department of Water
- 18 Resources?
- 19 WITNESS DES JARDINS: It is . . . It is . . .
- 20 I -- I've actually looked and I found in -- I
- 21 found in the Board's old records from the '95 Water
- 22 Quality Control Plan record, the rule curve.
- 23 CO-HEARING OFFICER DODUC: Miss Des Jardins --
- 24 WITNESS DES JARDINS: Yeah.
- 25 CO-HEARING OFFICER DODUC: -- that was not the

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1 question.
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- 2 WITNESS DES JARDINS: The question was, aren't
- 3 these -- So given that --
- 4 CO-HEARING OFFICER DODUC: To your knowledge,
- 5 were these ever adopted?
- 6 WITNESS DES JARDINS: I believe it's likely
- 7 they were, given the other information that I have.
- 8 CO-HEARING OFFICER DODUC: All right. That's
- 9 her answer, Miss Morris.
- 10 MS. MORRIS: Thank you.
- In your Exhibit FOR-15, Pages 8 and 9.
- 12 WITNESS DES JARDINS: Let me --
- 13 MS. MORRIS: I think Mr. Baker's probably
- 14 working on pulling it up.
- 15 WITNESS DES JARDINS: Is that the State Water
- 16 Project Water Supply or the latter, the carryover
- 17 storage?
- 18 (Exhibit displayed on screen.)
- 19 MS. MORRIS: This is in your section on State
- 20 Water Project's inability --
- 21 WITNESS DES JARDINS: Yes.
- MS. MORRIS: -- to provide flow, Table A.
- 23 On Page 8 and 9.
- 24 (Exhibit displayed on screen.)
- 25 MS. MORRIS: This -- In your testimony, you

- 1 talk about the four pumps agreement; correct?
- 2 WITNESS DES JARDINS: Yes.
- 3 MS. MORRIS: And do you know if DWR was able
- 4 to use the additional capacity of the four pumps in the
- 5 winter months, roughly mid-December to mid-March?
- 6 WITNESS DES JARDINS: There -- Yeah. You're
- 7 talking about the Army Corps of Engineers' Public
- 8 Notice 5802A, and that allowed increase of diversions
- 9 when -- I believe, when -- when the San Joaquin River
- 10 flows were high. And they diverted, I believe, up to a
- 11 third of that.
- 12 And, yes, they were able to do that.
- MS. MORRIS: Your testimony is, they were able
- 14 to use that.
- 15 WITNESS DES JARDINS: I -- That -- It's not
- 16 in -- in my report.
- But, yes, divert and pump in winter months,
- 18 and that was -- Yeah, that was specifically part of the
- 19 Army Corps Permit. And I think it allows it to go up
- 20 8500 cfs. I think they've increased it a little since
- 21 then.
- MS. MORRIS: Are you familiar with
- 23 Mr. Leahigh's exhibit, DWR-855?
- If we could pull that up, Baker.
- I believe, because they're out of order,

- 1 Mr. Baker, that that's in the rebuttal portion, I hope.
- 2 (Exhibit displayed on screen.)
- 3 MS. MORRIS: So, looking at this exhibit, are
- 4 you familiar with it?
- 5 WITNESS DES JARDINS: I'm not sure that I
- 6 looked in detail at this one. There's about a thousand
- 7 exhibits.
- 8 MS. MORRIS: Would you be able to answer
- 9 questions based off of it?
- 10 WITNESS DES JARDINS: Yeah, if you show me
- 11 what you're asking about. I have looked at the
- 12 Delivery Reliability Reports, which it references.
- MS. MORRIS: Okay. So looking at this
- 14 DWR-855, the blue bar -- The title is Average monthly
- 15 SWP exports (Pre and Post Biological Opinions).
- 16 Do you see that?
- 17 WITNESS DES JARDINS: Yes.
- 18 MS. MORRIS: And the blue -- dark blue is the
- 19 average exports 2005 Reports Pre-BiOps, and the light
- 20 blue bar is the average exports 2011 report.
- 21 Do you see that?
- 22 WITNESS DES JARDINS: Average exports are not
- 23 the same as firm water supply.
- 24 So I can answer questions about average
- 25 exports, but there's a different definition. Firm

1 water supply is everything that can be delivered in all

- 2 but critical years.
- 3 MS. MORRIS: Right.
- 4 I wasn't asking about firm water supply at
- 5 all. My questions were limited to exports.
- 6 WITNESS DES JARDINS: You wanted to know about
- 7 the average historical exports.
- 8 MS. MORRIS: No. I -- I just asked if you
- 9 understand the orientation of the graphic.
- 10 WITNESS DES JARDINS: It's describing
- 11 average -- average exports before and after the
- 12 Biological Opinions.
- MS. MORRIS: Okay. And, in general -- in
- 14 general, not in all months -- aren't the dark blue bars
- 15 above the light blue bars?
- 16 Except for -- Just so we don't have any -- we
- 17 can speak clear here. Except for in July and August.
- 18 WITNESS DES JARDINS: There -- There is some
- 19 reduction in the spring months, yeah.
- 20 MS. MORRIS: And if you would just estimate
- 21 across the months the differences, what do you think
- 22 that they would be? That the exports would be higher
- 23 pre-BiOps or post-BiOps?
- 24 WITNESS DES JARDINS: There -- There are
- 25 definitely some restrictions from the BiOps, it's true.

1 The -- One of the effects of the BiOps was to limit

- 2 reserve flows and that did have some effects.
- 3 MS. MORRIS: Is it your contention that
- 4 in-basin uses in the last 50 years have remained
- 5 constant?
- 6 WITNESS DES JARDINS: I didn't say that.
- 7 MS. MORRIS: Is it your -- Do you believe that
- 8 the regulatory restrictions in the last 50 years have
- 9 remained constant?
- 10 WITNESS DES JARDINS: I didn't say that,
- 11 either.
- MS. MORRIS: And how about the hydrology?
- 13 WITNESS DES JARDINS: I've -- There are -- is
- 14 evidence that the hydrology is shifting dramatically
- 15 since around 2000.
- MS. MORRIS: Okay.
- 17 WITNESS DES JARDINS: Yeah.
- MS. MORRIS: Thanks.
- 19 And if we could look at your testimony FOR-8
- 20 on Page 6.
- 21 WITNESS DES JARDINS: Yeah.
- 22 MS. MORRIS: It's a different exhibit, FOR-8.
- 23 It's her testimony, not the report.
- 24 WITNESS DES JARDINS: Oh, FOR-8 on Page 6.
- 25 Sorry. Let's go look at it.

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1 (Exhibit displayed on screen.)
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- 2 MS. MORRIS: Yeah, in the table. Thank you.
- 3 Again, the -- You're familiar with this table
- 4 because it's part of your testimony; correct?
- 5 WITNESS DES JARDINS: Yes.
- 6 MS. MORRIS: And looking at 1977, the first
- 7 sort of dip in this chart.
- 8 Do you see that?
- 9 WITNESS DES JARDINS: Yes.
- 10 MS. MORRIS: Wasn't 1977 the dryest year on
- 11 record?
- 12 WITNESS DES JARDINS: Mmm . . . I'm trying to
- 13 remember. I've looked at the ranks. I'm trying to
- 14 remember if 2014 was dryer.
- 15 It's -- It's in the bottom -- bottom two, I
- 16 believe.
- MS. MORRIS: Okay. And the Delta standards at
- 18 the time were based on D-1291, correct, if you know?
- 19 WITNESS DES JARDINS: That would have been
- 20 before Decision 1485, I believe. So, yeah, that --
- 21 that may be.
- I'm not sure --
- MS. MORRIS: Okay.
- 24 WITNESS DES JARDINS: -- and I wouldn't,
- 25 without looking it up again.

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1 MS. MORRIS: But you agree they weren't based
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- 2 on D-1641; correct?
- 3 WITNESS DES JARDINS: No. That -- The -- The
- 4 regulatory restrictions have changed across time on
- 5 this graph.
- 6 MS. MORRIS: And then looking at 1991, the
- 7 sort of third dip down --
- 8 WITNESS DES JARDINS: Yes.
- 9 MS. MORRIS: -- in the approved request.
- 10 Wasn't 1991 the fifth year in a six-year
- 11 drought?
- 12 WITNESS DES JARDINS: Yes, it was.
- 13 MS. MORRIS: And the Delta standards at that
- 14 time were not based on D-1641; were they?
- 15 WITNESS DES JARDINS: That was Decision 1485,
- 16 I believe.
- MS. MORRIS: And looking at 2001 and the dip
- 18 shown on your graph, that was the first dry year under
- 19 the new D-1641 Delta requirements which added
- 20 additional water flow and quality standards; correct?
- 21 WITNESS DES JARDINS: I believe so.
- 22 The Water Quality Control Plan was enacted in
- 23 1995, and Decision 1641 enacted into the Permits the
- 24 obligations for meeting that.
- 25 So I'm -- I -- I think the '95 Water Quality

- 1 Plan standards have been in effect for some time.
- 2 I don't know that the implementation, which
- 3 was part of Decision 1641, changed the Water Quality
- 4 Plan.
- 5 MS. MORRIS: And the Biological Opinions
- 6 didn't come into play until 2008-2009; correct?
- 7 WITNESS DES JARDINS: There were Biological
- 8 Opinions during this entire period. There was a --
- 9 The -- The 2004 Biological Opinion was sent -- was --
- 10 there was a lawsuit about it with the Wanger Court, and
- 11 there was a mandate because . . . There was -- There
- 12 was a mandate that --
- MS. MORRIS: Right. But my question is
- 14 different. My question is a little bit different.
- 15 WITNESS DES JARDINS: Yeah.
- 16 MS. MORRIS: That -- Not that they didn't
- 17 exist but they weren't implemented until 2008 and 2009;
- 18 correct? The Biological Opinions.
- 19 WITNESS DES JARDINS: There are Biological
- 20 Opinions the whole time. The Biological Opinion -- The
- 21 Wanger Biological Opinion, I believe -- And I'm not
- 22 100 percent. But the Wanger Biological Opinion had the
- 23 requirements for Old and Middle River flows, and there
- 24 was a concern that that substantially limited the
- 25 Project impacts.

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1 MS. MORRIS: Are you -- Do you think that
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- 2 there were Biological Opinions in -- in 1979?
- 3 WITNESS DES JARDINS: The first Permits have
- 4 had conditions on -- on -- to protect -- There have
- 5 been conditions all along to protect fish and wildlife
- 6 that go back -- I think there was -- the first Petition
- 7 to list the winter-run.
- 8 I'm not -- I'm not completely clear on the
- 9 whole sequence of, but they -- various fish have been
- 10 listed. I think the most recent, there was an
- 11 Emergency Petition to list the Delta Smelt in 2005.
- 12 So . . . it may be that -- I'm not sure
- 13 exactly when the first -- first fish were listed.
- MS. MORRIS: Okay.
- 15 WITNESS DES JARDINS: Yeah.
- MS. MORRIS: Thank you.
- 17 Your opinion about Oroville operations and the
- 18 fact that they are not based -- that -- that the
- 19 shortages under the State Water Project are not based
- 20 on sort of water supply shortages from Biological
- 21 Opinions and other regulatory restrictions.
- How do you tease out those Biological Opinions
- 23 and regulatory restrictions to come to that conclusion?
- 24 WITNESS DES JARDINS: Well, it's based on a
- 25 great deal of looking at a whole history of

- 1 projections.
- 2 So, the original projection with the '95 Water
- 3 Quality Control Plan, was that they were dedicating a
- 4 million acre-feet a year because of the new spring
- 5 outflow standards. And then the -- But the Port
- 6 Chicago trigger ended up being used differently, so
- 7 there was significantly less spring outflow than
- 8 projected.
- 9 And then -- So the Biological Opinions --
- 10 CO-HEARING OFFICER DODUC: I'm sorry. I'm
- 11 confused now.
- 12 What was the question again?
- 13 WITNESS DES JARDINS: Try -- How did I tease
- 14 out the impacts?
- 15 And one was looking at the sequence of --
- 16 CO-HEARING OFFICER DODUC: Hold on.
- 17 WITNESS DES JARDINS: -- regulatory --
- 18 CO-HEARING OFFICER DODUC: Hold on.
- 19 Miss Morris.
- 20 MS. MORRIS: I'll withdraw the question and
- 21 move on.
- 22 WITNESS DES JARDINS: Yeah.
- 23 CO-HEARING OFFICER DODUC: Thank you.
- 24 MS. MORRIS: I wanted to look at a statement
- 25 that you made on Page 6 of your testimony and moving on

- 1 to Page 7, about a commitment.
- 2 (Exhibit displayed on screen.)
- 3 MS. MORRIS: And you cite to -- You say that
- 4 Exhibit A referred to in the paragraph on Page 6,
- 5 Line 25 . . .
- 6 Do you see that?
- 7 WITNESS DES JARDINS: Yeah. Those were the
- 8 Exhibit A standards at the time of the Coordinated
- 9 Operating Agreement.
- 10 MS. MORRIS: Do you have an understanding of
- 11 what those Exhibit A standards were?
- 12 WITNESS DES JARDINS: I believe that was
- 13 Decision 1485.
- 14 I think if the --
- MS. MORRIS: That's perfect. That was the --
- 16 WITNESS DES JARDINS: Yeah.
- 17 MS. MORRIS: -- answer I was looking for.
- 18 WITNESS DES JARDINS: Yeah.
- 19 MS. MORRIS: And your assertion that you -- It
- 20 seems to me that you're asserting on Page 6, Lines 22
- 21 on to Lines -- Page 7, Line 7, you appear to be
- 22 asserting that DWR and the Bureau made a commitment of
- 23 2.3 million acre-feet.
- 24 And your assertion is that it's unclear if
- 25 this is still being committed; is that correct?

- 1 WITNESS DES JARDINS: Yeah.
- 2 MS. MORRIS: And the basis of that commitment
- 3 that you cite to was FOR-103, which is the EIR/EIS for
- 4 the COA -- Coordinated Operations Agreement -- correct?
- 5 WITNESS DES JARDINS: It's not just that.
- 6 There's a background to the COA.
- 7 MS. MORRIS: Did you cite any other documents
- 8 in your testimony? The only one I can see is the
- 9 EIR/EIS for the Coordinated Operations Agreement.
- 10 WITNESS DES JARDINS: No. But this was
- 11 informed also by my other -- my knowledge of the --
- 12 what happened with the State Water Project and Central
- 13 Valley Project Permits and the Board processes at that
- 14 time. I can discuss that.
- But, yeah, the only citation is to the
- 16 Coordinated Operating Agreement.
- MS. MORRIS: And you're aware, I believe you
- 18 testified, that Decision 1481 was replaced by
- 19 Decision 1641; correct?
- 20 WITNESS DES JARDINS: Decision -- Can you
- 21 repeat the question?
- 22 MS. MORRIS: It's 1485 -- sorry -- was
- 23 replaced by Decision 14 -- 16 -- 1641.
- I can restate it because I just caused massive
- 25 confusion.

1 WITNESS DES JARDINS: That's not precisely

- 2 correct.
- 3 MS. MORRIS: You -- So D-1485 was -- Actually,
- 4 just strike that.
- 5 Do you think that there are more or less water
- 6 supply obligations for DWR and USBR in Decision 1485 or
- 7 in Decision 1641?
- 8 WITNESS DES JARDINS: The -- The 1995 Water
- 9 Quality Control Plan and that -- which was just
- 10 succeeded by the 2006 Water Quality Control Plan, which
- 11 is implemented under Decision 1641, does have more
- 12 outflow obligations. And particularly what -- what's
- 13 ended up being implemented is more --
- 14 CO-HEARING OFFICER DODUC: So your answer --
- 15 WITNESS DES JARDINS: There is more during dry
- 16 years.
- 17 CO-HEARING OFFICER DODUC: So your answer is
- 18 yes, there is more.
- 19 WITNESS DES JARDINS: Yeah.
- 20 MS. MORRIS: And does the Biological Opinions
- 21 in '08 and '09 also have additional outflow
- 22 requirements; correct?
- 23 WITNESS DES JARDINS: There's -- One of the
- 24 primary effects -- I'm trying to remember. I thought
- 25 that the primary effects were export restrictions which

- 1 aren't exactly the equivalent.
- 2 MS. MORRIS: Are you aware that the Delta
- 3 outflow far exceeded 2.3 million acre-feet in 2014 and
- 4 2015?
- 5 WITNESS DES JARDINS: Yes.
- 6 And that's not exactly the same thing as
- 7 the -- the -- the dedicated water which is to affect
- 8 salinity intrusion.
- 9 There were huge issues with salinity intrusion
- 10 in 2014.
- 11 MS. MORRIS: Thank you.
- 12 Good morning. How are you, Mr. Stork?
- 13 WITNESS STORK: I'm doing just great.
- 14 MS. MORRIS: Great.
- 15 Have you ever testified as an expert in a
- 16 State Court proceeding? And I'm not talking about a
- 17 regulatory proceeding like before this Board, but in a
- 18 State Court proceeding.
- 19 WITNESS STORK: I have not.
- MS. MORRIS: And have you ever testified as an
- 21 export in -- expert in a Federal Court proceeding?
- 22 WITNESS STORK: I have not.
- 23 MS. MORRIS: Looking at your testimony on
- 24 Page 6.
- I can pause if -- I think, Mr. Baker, it's

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1 helpful for counsel if you can show it on the screen so
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- 2 they can see what we're talking about.
- 3 (Exhibit displayed on screen.)
- 4 MS. MORRIS: Thank you.
- 5 So looking at your testimony on Page 6, and
- 6 I'm looking at Lines 6 through 13.
- 7 (Exhibit displayed on screen.)
- 8 MS. MORRIS: You state the proposed (reading):
- 9 ". . . Change in point of diversion
- 10 will . . . have (sic) adverse
- implications . . . on coldwater pools,
- downstream fishery conditions, and
- recreation . . . "
- 14 Have you done any modeling that shows how the
- 15 proposed change in point of diversion will impact
- 16 coldwater pool?
- 17 WITNESS STORK: I have not done any modeling
- 18 myself. I'm the consumer of models.
- 19 MS. MORRIS: Have you done any of your own
- 20 modeling to look at the impacts to downstream
- 21 fisheries?
- 22 WITNESS STORK: I have not personally done
- 23 that modeling, no.
- 24 MS. MORRIS: And would the answer be the same
- 25 for recreation?

- 1 WITNESS STORK: That's correct.
- 2 MS. MORRIS: Looking at your testimony on
- 3 Page 7, Lines 6 through 12.
- 4 (Exhibit displayed on screen.)
- 5 MS. MORRIS: You state that greater water
- 6 demands South of Delta, together with CWF and other new
- 7 facilities, will likely result in a loss of public
- 8 trust resources.
- 9 Have you done any modeling to determine what
- 10 the loss of public trust resources would be under your
- 11 hypothetical?
- 12 WITNESS STORK: Once again, I'm the consumer
- 13 of models. I'm not doing models myself.
- MS. MORRIS: And do you have any estimate of
- 15 the magnitude of the increased demand?
- 16 WITNESS STORK: "Magnitude" as an order of 10
- 17 order of magnitude?
- I do not. And my testimony largely suggests
- 19 that it's uncertain.
- 20 MS. MORRIS: Okay. In your testimony, you
- 21 mentioned the potential for several additional
- 22 projects, including raising Shasta, constructing Sites
- 23 Reservoir and Temperance Flats, among others.
- 24 Does your statement assume all of these
- 25 Projects are completed?

1 WITNESS STORK: I think those Projects are

- 2 speculative, and so it's -- My testimony is -- is
- 3 merely that the State Water Project and the CVP are
- 4 planning -- in active planning for additional projects.
- 5 MS. MORRIS: And I understand that you just
- 6 said all of those Projects are speculative; correct?
- 7 WITNESS STORK: I would hope they're
- 8 speculative. I think others believe that they're a --
- 9 a sure thing.
- 10 MS. MORRIS: But, in this instance, you
- 11 haven't looked at how any results from those Projects
- 12 and how, together with WaterFix, they may have impacts
- 13 on public trust resources; correct?
- 14 WITNESS STORK: Both Friends of the River and
- 15 others have -- including State agencies -- have offered
- 16 comments, fairly adverse comments, about Temperance
- 17 Flat Dam, Shasta Dam raise, and -- and much less
- 18 certain comments because the Project is more
- 19 speculative around Sites.
- 20 So I am familiar with the kinds of reactions
- 21 to the environmental and feasibility documents --
- 22 feasibility reports for those Projects.
- 23 MS. MORRIS: Nonetheless, none of the Projects
- 24 that you cite, and have now testified as being
- 25 speculative, are included in the Project Description

- 1 for California WaterFix; correct?
- 2 WITNESS STORK: Precisely. I couldn't have
- 3 said it better myself.
- 4 MS. MORRIS: And isn't it true that California
- 5 WaterFix does not propose any of the -- any new dams or
- 6 construction of any new dams?
- 7 WITNESS STORK: The same thing I just said,
- 8 yes.
- 9 MS. MORRIS: And, Mr. Stork, you're aware that
- 10 DWR has abandoned diverting water from the north coast
- 11 rivers to the Sacramento River for purposes of the
- 12 State Water Project; correct?
- 13 WITNESS STORK: I believe that the Department
- 14 is foreclosed by law, so, yes, it has. But there are
- 15 other forces in the State who have different opinions.
- 16 MS. MORRIS: And looking at your testimony on
- 17 Page 12, the citation you cite there about moving more
- 18 water --
- 19 (Exhibit displayed on screen.)
- 20 MS. MORRIS: -- that was based on the ability
- 21 for DWR to move water from the north coast rivers; was
- 22 it not?
- 23 WITNESS DES JARDINS: That's correct, and not
- 24 just the Eel but more as well.
- MS. MORRIS: Yeah.

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Good morning, Mr. Minton.
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- 2 WITNESS MINTON: Good morning to you.
- 3 MS. MORRIS: A couple quick questions for you.
- 4 Have you ever qualified as an expert and
- 5 testified as an expert in State Court?
- 6 WITNESS MINTON: No.
- 7 MS. MORRIS: And how about Federal Court?
- 8 WITNESS MINTON: Yes.
- 9 MS. MORRIS: In what matter?
- 10 WITNESS MINTON: It was the matter of the U.S.
- 11 vs. San Diego on their pollution discharge and the
- 12 opportunities for water conservation to reduce those
- 13 discharges.
- MS. MORRIS: And what matters were you
- 15 qualified as an expert on in that case?
- 16 WITNESS MINTON: In water conservation.
- MS. MORRIS: Thank you.
- I wanted to look at Page 7 of your testimony.
- 19 And that -- sorry, Mr. Baker. That is FOR-6.
- 20 (Exhibit displayed on screen.)
- 21 MS. MORRIS: Do you see that?
- 22 WITNESS MINTON: Yes, I do.
- 23 MS. MORRIS: And you cite that -- you cite to
- 24 the California Dairy Research Foundation for the
- 25 appropriation that (reading):

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1 ". . . Another 1.5 million acres have
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- been impaired by salt."
- 4 WITNESS MINTON: Yes.
- 5 MS. MORRIS: Do you know how the California
- 6 Dairy Research Foundation came up with that
- 7 1.5 million-acre number?
- 8 WITNESS MINTON: I do not, no.
- 9 MS. MORRIS: And if we looking at FOR-78,
- 10 which you cite, which is the citation.
- 11 WITNESS MINTON: Um-hmm.
- 12 (Exhibit displayed on screen.)
- MS. MORRIS: Is there any data in this
- 14 document that shows how that 1.5 million acre-feet have
- 15 been impaired by salt, has -- was calculated by
- 16 California Dairy Research Foundation?
- 17 WITNESS MINTON: Not that I'm aware of.
- 18 MS. MORRIS: Okay. At this time, I would move
- 19 to strike Lines 7 to 10 on the basis that it's hearsay
- 20 and that there's -- there's actually no citation or
- 21 data to support that 1.5 million acres being impaired
- 22 by salts.
- 23 CO-HEARING OFFICER DODUC: Let me try to
- 24 understand.
- 25 Mr. Minton, is that 1.5 million acres

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1 mentioned in FOR-78?
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- 2 WITNESS MINTON: Yes, I believe it is.
- 4 MS. MORRIS: Right, it is mentioned, but it's
- 5 just a quote.
- 6 So we -- It appears to be a newsletter. And
- 7 if you scroll --
- 8 (Exhibit displayed on screen.)
- 9 MS. MORRIS: Keep going down.
- 10 (Exhibit displayed on screen.)
- 11 CO-HEARING OFFICER DODUC: There it is.
- 12 MS. MORRIS: Right there.
- 13 There's no data supporting it. It doesn't
- 14 cite to any other articles that have data. So, really,
- 15 it's Mr. Minton citing you to another newspaper --
- 16 newsletter without any data to support it.
- 17 CO-HEARING OFFICER DODUC: It goes to weight,
- 18 Miss Morris.
- 19 MS. MORRIS: I thought you might say that.
- 20 Looking at your testimony FOR-6 on Page 5,
- 21 Lines 21 to 25.
- 22 (Exhibit displayed on screen.)
- 23 MS. MORRIS: You state that the impacts of
- 24 California WaterFix (reading):
- 25 ". . . Could be on the order of a million

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1 acre-feet . . . in some years."
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- 2 WITNESS MINTON: I'm sorry. What page is that
- 3 again?
- 4 MS. MORRIS: Page 5, Lines 21 to 25.
- 5 WITNESS MINTON: Yes.
- 6 MS. MORRIS: On what do you base the statement
- 7 that the impacts of CWF could be on the order of
- 8 1 million acre-feet in some years?
- 9 WITNESS MINTON: This is a whole series of
- 10 discussions.
- I originally participated in the Bay-Delta
- 12 Conservation Plan. Well, I didn't participate. I sat
- 13 in on their proceedings for about a year or so where it
- 14 was first envisioned, and then I followed its progress
- 15 in the past decade.
- So it's an amalgamation of the information
- 17 I've received.
- 18 MS. MORRIS: You understand the Project before
- 19 the Board for the Change Petition is not the Bay-Delta
- 20 Conservation Plan; correct?
- 21 WITNESS MINTON: I understand -- My
- 22 understanding is that the Project before the Board is
- 23 a . . .
- MS. MORRIS: My question was --
- 25 WITNESS MINTON: It appears to be an evolving

1 Project that -- I'm -- I'm not exactly sure what the

- 2 Project is that the Proponents are putting forth
- 3 currently. I don't even know what that is, so it's
- 4 hard for me to judge that.
- 5 MS. MORRIS: Have you reviewed the Petition
- 6 before --
- 7 WITNESS MINTON: Yes.
- 8 MS. MORRIS: -- the change in point of
- 9 diversion?
- 10 WITNESS MINTON: Yes.
- 11 MS. MORRIS: Does it say anything about the
- 12 Bay-Delta Conservation Plan.
- 13 WITNESS MINTON: It does not.
- MS. MORRIS: Does the Bay-Delta Conservation
- 15 Plan have a number of items that are not included in
- 16 the California WaterFix, to your knowledge?
- 17 WITNESS MINTON: Yes. I believe it deleted a
- 18 lot of the habitat program as one example.
- 19 MS. MORRIS: And are you aware that the
- 20 Project before the Board is California WaterFix with
- 21 the operations H3+?
- 22 WITNESS MINTON: That's my understanding.
- MS. MORRIS: And are you aware that, based on
- 24 the modeling presented to the Board for CWF H3+,
- 25 there's approximately only an additional 226,000 --

1 hundred thousand acre-feet of average annual yield

- 2 increase?
- 3 WITNESS MINTON: That is my understanding.
- 4 It's also my understanding that Project
- 5 operations could change in the future and things like
- 6 Temporary Urgency Change Petitions have been fairly
- 7 routinely granted, which would increase average annual
- 8 deliveries.
- 9 So it's difficult for me to know, under the
- 10 concept of adaptive management and changes in the
- 11 future, what the actual impacts would be in total.
- MS. MORRIS: Let's explore some statements you
- 13 just made.
- 14 WITNESS MINTON: Thank you.
- 15 MS. MORRIS: Are you familiar -- And I'm just
- 16 asking a very simple question.
- 17 Are you familiar with the TUC pro -- TUCP
- 18 process that occurred before the Board in 2014 and
- 19 2015?
- 20 WITNESS MINTON: I'm aware that it occurred.
- 21 I did not participate in it.
- 22 MS. MORRIS: Do you have any knowledge that
- 23 exports were increased under those TUCPs?
- 24 WITNESS MINTON: I do not know if they were
- 25 increased. I believe they were also for some water

- 1 quality needs in the South Delta.
- MS. MORRIS: Are you aware that the exports
- 3 that were allowed to occur when standards were not
- 4 being met were for public health and safety purposes
- 5 and a minimum cfs as stated in the Biological Opinions?
- 6 WITNESS MINTON: I do not know that as my
- 7 own -- I don't have that as my own knowledge.
- 8 MS. MORRIS: Okay. Then I would move to
- 9 strike his statements that the TUCPs, which are not
- 10 part of this Petition, and he has not -- he doesn't
- 11 have knowledge of how they may or may not affect this
- 12 Project. Are not relevant, one, and number two, they
- 13 don't have any basis.
- 14 CO-HEARING OFFICER DODUC: My understanding of
- 15 his statement was that he said he doesn't know what
- 16 impact the TUCP might have on the Project.
- 17 He voices it as one of those things that he is
- 18 uncertain about.
- 19 MS. MORRIS: There was an implication -- And
- 20 based on the question that I asked before.
- 21 So don't I do this. Instead of striking that,
- 22 I would move to strike Lines 23 and 25 of his testimony
- 23 on the basis that there is no evidence or data cited to
- 24 that the exports -- sorry -- that the impacts could
- 25 be -- of diversions would be in the order of 1 million

- 1 acre-feet.
- 2 CO-HEARING OFFICER DODUC: Mr. Minton, I
- 3 believe you said it was based on your personal
- 4 experience and knowledge.
- 5 WITNESS MINTON: Yes.
- 6 CO-HEARING OFFICER DODUC: Mr. Wright?
- 7 MR. WRIGHT: Yes.
- 8 I think this objection goes to the weight that
- 9 he has extensive experience to testify to that.
- 10 MS. MORRIS: I would just note that he said it
- 11 was on his knowledge of the BDCP, which is a different
- 12 Project than is before the Board at this point in time.
- 13 CO-HEARING OFFICER DODUC: So noted, and it
- 14 goes to weight.
- MS. MORRIS: Dr. Kolb, good morning.
- I have a couple of quick questions --
- 17 MR. WRIGHT: Dr. Kolb.
- MS. MORRIS: I'm sorry, what?
- 19 MR. WRIGHT: Dr. Kolb.
- 20 MS. MORRIS: I said Dr. Kolb.
- MR. WRIGHT: Oh, okay. My hearing, then.
- MS. MORRIS: Have you ever qualified to
- 23 testify as an expert in State Court?
- 24 WITNESS KOLB: No.
- 25 MS. MORRIS: I'm sorry? Could --

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1 WITNESS KOLB: No.
2 MS. MORRIS: Thank you.
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- 3 And how about Federal Court?
- 4 WITNESS KOLB: No.
- 5 MS. MORRIS: Looking at your testimony,
- 6 FOR-4 --
- 7 Mr. Baker, if we could pull it up.
- 8 (Exhibit displayed on screen.)
- 9 MS. MORRIS: And I'm looking at Page 4.
- 10 (Exhibit displayed on screen.)
- 11 MS. MORRIS: Lines 16 to 20.
- 12 (Exhibit displayed on screen.)
- MS. MORRIS: Do you have that in front of you?
- 14 And I'll go ahead and ask you the questions.
- 15 WITNESS KOLB: Yeah.
- MS. MORRIS: Okay. Thank you.
- 17 CO-HEARING OFFICER DODUC: Page 4, Mr. Baker.
- 18 (Exhibit displayed on screen.)
- 19 MS. MORRIS: And on Page 4, Lines 16 to 20,
- 20 you state that there would be less freshwater outflow.
- What's the basis of this statement?
- 22 WITNESS KOLB: That's the whole purpose of the
- 23 Project, is to allow diversions out of the Delta when
- 24 they would not otherwise occur.
- MS. MORRIS: And did you look at CalSim II

- 1 modeling results to come to that statement?
- 2 WITNESS KOLB: No.
- 3 MS. MORRIS: Did you look at any modeling
- 4 results?
- 5 WITNESS KOLB: No. This is a widely known
- 6 consequence.
- 7 MS. MORRIS: And, Dr. Kolb, if outflow were to
- 8 remain the same under CWF, would your opinions that you
- 9 gave in your testimony change?
- 10 WITNESS KOLB: If the outflow got no worse
- 11 than it is right now, I would still be very concerned
- 12 because the pelagic organism decline has been -- it's a
- 13 catastrophe, and it's going on right now without any
- 14 new project.
- MS. MORRIS: But, in any instance, if it were
- 16 to remain the same as it was, it wouldn't be from
- 17 California WaterFix causing those impacts; would it?
- 18 WITNESS KOLB: It would -- If it -- If it
- 19 made -- If it made it -- If we're going to spend
- 20 \$17 billion to get no improvement in the fisheries, I
- 21 would say that's a bad investment of public money.
- MS. MORRIS: I'm not sure that was my
- 23 question, but okay.
- I wanted to ask you about your testimony on
- 25 Page 3.

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1 (Exhibit displayed on screen.)
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- 2 MS. MORRIS: And I believe you also testified
- 3 about the POD decline. But you seem to cite for the
- 4 appropriation of the decline Exhibit FOR-60, Pages 90
- 5 to 97 in your testimony.
- 6 Do you see that on Line 16?
- 7 WITNESS KOLB: I do, yes.
- 8 MS. MORRIS: And that's an IEP paper; correct.
- 9 WITNESS KOLB: Yes.
- 10 MS. MORRIS: And isn't it true that that IEP
- 11 paper that you cite to was describing a number of
- 12 conceptual models?
- 13 WITNESS KOLB: No. The -- The burden of that
- 14 paper was that there has been a regime change, a
- 15 catastrophic one, in the Delta.
- 16 It's not talking about conceptual models.
- 17 It's talking about: Why has decline occurred?
- 18 And their -- They said the -- this regime
- 19 shift, number one, is outflow. And they go on to say
- 20 that that they considered the dominant variable.
- 21 MS. MORRIS: Okay. I think we'd better pull
- 22 that document up, then.
- 23 If we could pull up FOR-60, and it starts --
- 24 and we'll start on Page 90, I believe.
- 25 WITNESS KOLB: At the bottom.

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1 (Exhibit displayed on screen.)
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- 2 MS. MORRIS: And these line numbers are even
- 3 more outrageous than the ones that we deal with.
- 4 So I'm -- I'm looking at Line 3970 -- 3975.
- 5 And it's -- it's talking about (reading):
- 6 ". . . A regime shift might have taken
- 7 place . . ."
- 8 Correct? It's not saying it did take place.
- 9 It "might have taken place."
- 10 WITNESS KOLB: They're taking as a given the
- 11 pelagic organism decline.
- The question that they're commenting on is:
- 13 Did a regime change take place? And they were -- They
- 14 were -- They did not conclude that it happened; they're
- 15 saying it might have happened.
- 16 MS. MORRIS: Right.
- 17 And if we go down to look at 3991 of that same
- 18 exhibit, it's talking about (reading):
- ". . Drivers we propose for the POD
- 20 regime shift are . . . "
- 21 It's really -- And it was outflow. It doesn't
- 22 say it's outflow. It's testing hypotheses to try to
- 23 determine what caused the POD shift; correct?
- 24 WITNESS KOLB: Yes. It says (reading):
- 25 "These drivers are listed in our

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1 hypothesized order . . . of importance to
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- 2 the resiliency of the system and
- 3 approximate rate of change."
- 4 The first of which is diversions. Flow.
- 5 MS. MORRIS: And you further state in your
- 6 testimony that pollutant levels will increase.
- 7 What pollutants are you specifically referring
- 8 to?
- 9 WITNESS KOLB: I would be referring to all of
- 10 the pollutants that could not be through conventional
- 11 wastewater treatment. And I listed some of them, but
- 12 there are probably a hundred more that one could list.
- MS. MORRIS: And you also --
- 14 WITNESS KOLB: There's a sealing -- There's a
- 15 saying in analytical chemistry today that you can find
- 16 anything in anything. And I think that's true.
- MS. MORRIS: Okay. You state that flow into
- 18 the bay dilutes the pollution; correct?
- 19 WITNESS KOLB: Yes.
- MS. MORRIS: Do you have an understanding if
- 21 USBR and DWR have an obligation to make water releases
- 22 to provide dilution?
- 23 WITNESS KOLB: My understanding is that they
- 24 do.
- MS. MORRIS: And is that for -- is that more

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1 repelling salinity?
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- 2 WITNESS KOLB: I don't know.
- 3 MS. MORRIS: What other -- What other
- 4 obligation do they have to dilute pollutants?
- 5 WITNESS KOLB: I don't know.
- 6 MS. MORRIS: Did you conduct any specific
- 7 analysis -- analyses to quantify or otherwise determine
- 8 what the changes in any pollutant levels would be due
- 9 to California WaterFix implementation?
- 10 WITNESS KOLB: I did not.
- 11 MS. MORRIS: Looking at your testimony on
- 12 Page 4, and, again, that's FOR-4.
- 13 (Exhibit displayed on screen.)
- 14 MS. MORRIS: Lines 21 to 23, you state that
- 15 implementing CVP will result in more water being used
- 16 to irrigate (reading):
- ". . . Soils with naturally
- occurring . . . selenium."
- 19 Have you developed an estimate of how much
- 20 additional water will be applied to those soils?
- 21 WITNESS KOLB: No, I have not.
- 22 MS. MORRIS: I'm almost done. I'll wrap it
- 23 up.
- 24 Have you developed an estimate of how much
- 25 additional acreage of this type of soil will be

1 irrigated as a result of implementing California

- 2 WaterFix?
- 3 WITNESS KOLB: No, I have not.
- 4 I'd like to note, however, that that acreage
- 5 is going down because of high water tables in the area,
- 6 which is a toxic time bomb waiting to happen.
- 7 Irrigating this in the first place was one of
- 8 the worst mistakes we made in California water policy.
- 9 (Timer rings.)
- 10 MS. MORRIS: And, Dr. Kolb, have you reviewed
- 11 the water quality sections of the Final EIR/EIS adopted
- 12 by the Department of Water Resources?
- 13 WITNESS KOLB: Only in a general way.
- MS. MORRIS: Okay. I have no further
- 15 questions.
- 16 CO-HEARING OFFICER DODUC: Thank you.
- 17 Are you guys done?
- MS. MORRIS: We're done, I think.
- 19 Actually, there's two little housekeeping
- 20 things.
- 21 CO-HEARING OFFICER DODUC: Mr. Mizell.
- MR. MIZELL: Yes.
- For the record, we're going to object to
- 24 hearsay on the 1 million acre-foot increase mentioned
- 25 by Mr. -- or -- yeah --

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1 CO-HEARING OFFICER DODUC: Mr. Minton.
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- 2 MR. MIZELL: -- Mr. Minton.
- 3 MS. MORRIS: And then I had one --
- 4 CO-HEARING OFFICER DODUC: I thought I noted
- 5 that already; haven't I?
- 6 MS. MORRIS: Yeah.
- 7 I do have another -- Looking at
- 8 Miss Des Jardins' testimony, FOR-8, Page 3, Lines 1
- 9 through Page 4, Lines 20.
- 10 (Exhibit displayed on screen.)
- 11 MS. MORRIS: I would move -- I object to those
- 12 lines because it's hearsay.
- 13 It's a . . . interview of another person and
- 14 it doesn't appear to be based -- there's -- it doesn't
- 15 appear to be incorporated into her testimony.
- 16 Rather, it just seems to be a citation to an
- 17 interview with a person that we can't cross-examine.
- 18 CO-HEARING OFFICER DODUC: All right. We will
- 19 note that as a hearsay objection.
- 20 MS. ANSLEY: Jolie-Anne Ansley for the
- 21 Department of Water Resources.
- We also have a list of hearsay objections that
- 23 we were planning to bring when they moved them into
- 24 evidence, and we're happy to bring that list then to
- 25 this testimony, but wanted to alert the Hearing

- 1 Officers.
- 2 CO-HEARING OFFICER DODUC: All right. Which
- 3 we might actually do later today, so be prepared.
- 4 MS. MORRIS: Thank you.
- 5 CO-HEARING OFFICER DODUC: All right.
- 6 Miss Meserve.
- 7 MS. MESERVE: I never like to be the one
- 8 standing between lunch.
- 9 CO-HEARING OFFICER DODUC: Actually, that will
- 10 probably be Mr. Shutes, but you're part of it.
- 11 MS. MESERVE: Okay. We'll -- We'll take the
- 12 blame.
- 13 CO-HEARING OFFICER DODUC: Outline of your
- 14 questions, Miss Meserve?
- MS. MESERVE: Yes.
- I just have a couple of questions for
- 17 Mr. Stork regarding wild and scenic rivers, and Shasta
- 18 Dam and, cold storage.
- 19 And then I have just a couple questions for
- 20 Mr. Minton regarding alternatives.
- 21 CO-HEARING OFFICER DODUC: Please proceed.
- MS. MESERVE: Okay.
- 23 CROSS-EXAMINATION BY
- MS. MESERVE: Mr. Stork, starting with you,
- 25 please.

- 1 Your testimony on Page 13 discusses the
- 2 existence of the wild and scenic river designations
- 3 helping defeat the Peripheral Canal in 1982.
- 4 Do you believe that the grant of a Petition
- 5 allowing the construction and operation of the tunnels
- 6 would increase pressure to remove wild and scenic river
- 7 protections?
- 8 WITNESS STORK: I do.
- 9 MS. MESERVE: And why?
- 10 WITNESS STORK: The ability to transfer water
- 11 across the Delta is an important part of tapping the
- 12 north coast rivers, which are in the State system or,
- 13 for that matter, the McCloud River, which is protected
- 14 in the State Wild and Scenic Rivers Act.
- So particularly since there's been no, shall
- 16 we say, increase in the -- in the level of protection
- 17 of changing the State system, as was envisioned early
- 18 on, having the two-thirds vote. So it's a 50 percent
- 19 vote out of both the Congress and the Legislature to
- 20 change that system.
- 21 And there's a lot of folks in the State Water
- 22 Project that would like to have reliable water for
- 23 their -- for their contracts that they don't have
- 24 now -- sorry -- contracts that they have that are not
- 25 reliably served with water.

1 MS. MESERVE: And what would be your response

- 2 if someone argued that there's not currently a way to
- 3 divert those north coast rivers into the Sacramento
- 4 River and, ultimately, the tunnels?
- 5 WITNESS STORK: That is true. The north coast
- 6 rivers flow, with the exception of Trinity Dam, mostly
- 7 unaltered and unregulated, to the -- to the ocean.
- 8 So you would have to build dams and tunnels to
- 9 deliver water to -- generally, it's been to the
- 10 Sacramento River, and then pick it up and put across
- 11 the Delta so that the south state export facilities can
- 12 export that water --
- 13 CO-HEARING OFFICER DODUC: Hold on.
- 14 WITNESS MINTON: To the --
- 15 CO-HEARING OFFICER DODUC: Hold on.
- Miss Morris.
- 17 MS. MORRIS: Stefanie Morris, State Water
- 18 Contractors.
- 19 I just object as to relevance.
- 20 That's not part of the Proposed Project, as
- 21 noted by the witness. We would have to require to go
- 22 to the legislature and remove those restrictions.
- 23 So I don't think that it is particularly
- 24 probative for this hearing to have that discussion.
- 25 And also, I just want to say for the record, I

- 1 think it mischaracterizes State Water Project
- 2 Contractors and what they look for in reliability.
- 3 CO-HEARING OFFICER DODUC: Miss Meserve.
- 4 MS. MESERVE: I think -- I'm just asking for
- 5 additional information regarding the topics of his
- 6 testimony about why he'd be concerned about it.
- 7 And I think this is --
- 8 CO-HEARING OFFICER DODUC: Make -- No, no.
- 9 I'm --
- 10 MS. MESERVE: Within --
- 11 CO-HEARING OFFICER DODUC: -- asking you --
- MS. MESERVE: -- the scope -- Oh, I'm sorry.
- 13 CO-HEARING OFFICER DODUC: I'm asking you for
- 14 the relevance to the key hearing issues before us.
- 15 MS. MESERVE: I think the public interest and
- 16 public trust and wildlife are obviously very impacted
- 17 by the ability to continue protecting north coast
- 18 rivers.
- 19 And so if Mr. Stork's testimony is about
- 20 whether those rivers may be better or worse protected
- 21 with or without the Project, that's why I'm asking him.
- 22 CO-HEARING OFFICER DODUC: That's a stretch.
- 23 But if you're not going to pursue it much
- 24 further, I will just allow it to go.
- MS. MESERVE: Yeah. I don't have a lot on it.

- 1 CO-HEARING OFFICER DODUC: Right.
- 2 MS. MESERVE: I was just trying to get more
- 3 detail than what was included in his testimony.
- 4 On Page 16 of your testimony, you mention that
- 5 you believe the Shasta Dam raise would violate the Wild
- 6 and Scenic Rivers Act.
- 7 WITNESS STORK: It would.
- 8 MS. MESERVE: Is there anything that's
- 9 happened since you wrote your testimony in November
- 10 that supports your point of view?
- 11 WITNESS STORK: Yes.
- MS. MESERVE: And what is that?
- 13 WITNESS STORK: The San Luis & Delta-Mendota
- 14 Water Authority had -- and Westlands Water District has
- 15 items on their agendas to join up to be a cosponsor of
- 16 the Shasta Dam raise.
- 17 There was an attempt in the omnibus
- 18 appropriations bill to help facilitate that that
- 19 failed.
- 20 And a letter was sent by Friends of the River
- 21 and other parties last week to the San Luis
- 22 Delta-Mendota Water Authority to -- alerting them to
- 23 the effect their offer to cosponsor on the Project is
- 24 illegal under State law.
- 25 MS. MESERVE: And has the State of California

- 1 taken a position on the violation of the Wild and
- 2 Scenic Rivers Act?
- 3 WITNESS STORK: Secretary Laird communicated
- 4 during -- a few weeks back during the omnibus
- 5 appropriation bill discussions that the State of
- 6 California would not support the proposed language in
- 7 the bill because of its obligation to protect rivers
- 8 protected in the State act.
- 9 MS. MESERVE: And just thinking
- 10 hypothetically, Mr. Stork:
- 11 If the Shasta Dam raise was off the table
- 12 permanently, for some reason, would you still be
- 13 concerned about the permanent protection of Northern
- 14 California rivers if the Tunnels Petition was granted?
- 15 CO-HEARING OFFICER DODUC: She saved it,
- 16 Miss Morris.
- 17 WITNESS STORK: I don't know how you can
- 18 permanently protect rivers without having some fairly
- 19 significant protections that exceed the current
- 20 50 percent vote, and it's out of the system.
- 21 So, I guess the answer would be, I would still
- 22 be concerned.
- MS. MESERVE: On Page 21 of your testimony,
- 24 Mr. Stork, you discuss cold storage and examples of
- 25 Water Board actions to prevent cold storage in the

- 1 Bella Vista and Auburn Dam matters.
- 2 What do you see as the danger if a permit was
- 3 granted for the Delta tunnels and it was not
- 4 construction -- constructed on the 18-year or so
- 5 timeline that's been discussed at this hearing?
- 6 WITNESS STORK: In my testimony, I -- I noted
- 7 that the -- there had been discussions about
- 8 essentially a phased approach by the Petitioners, and
- 9 they noted that it would be more costly to do that.
- 10 If -- And -- And, therefore, there would be
- 11 some risk that the -- there would only be one tunnel,
- 12 and that the second tunnel might be indefinitely
- 13 deferred because of financial considerations.
- 14 That was -- And my testimony is supported by
- 15 the EIR work that was being done in the background.
- 16 So, obviously, one of the concerns is that the
- 17 Project under consideration here is not the same
- 18 Project and it may have different --
- 19 CO-HEARING OFFICER DODUC: I'm sorry.
- 20 WITNESS STORK: -- operations.
- 21 CO-HEARING OFFICER DODUC: That -- What was
- 22 your question again, Ms. Meserve?
- MS. MESERVE: I was asking about --
- 24 CO-HEARING OFFICER DODUC: The longer
- 25 construction period and whether or not he would be

- 1 concerned by that.
- 2 MS. MESERVE: Actually, I was asking -- going
- 3 back to the cold storage points of his testimony, what
- 4 would be the concern with a project that was permitted
- 5 and then put in cold storage.
- 6 MS. MORRIS: I would --
- 7 CO-HEARING OFFICER DODUC: Hold on.
- 8 Miss Me -- Miss Morris.
- 9 MS. MORRIS: I just object to testimony that
- 10 goes to the issue of staged construction or
- 11 implementation.
- 12 And I -- I don't think that question was
- 13 responsive -- or the answer was responsive to the
- 14 question asked.
- So I -- Are we not -- I don't want to get up
- 16 here and object all the time if you're --
- 17 CO-HEARING OFFICER DODUC: No, no, no, I
- 18 understand. That's why I stopped him. His answer was
- 19 not responsive.
- 20 So let's try again, Mr. Stork.
- 21 WITNESS STORK: Well, you'd have to repeat the
- 22 question because I thought it was responsive.
- MS. MESERVE: I thought it was somewhat
- 24 responsive.
- 25 But let's just take a specific ample. I think

- 1 you mentioned area-of-origin water supplies.
- 2 If -- If there was a petition that was granted
- 3 and then, as you call it, put in cold storage, would
- 4 that concern you with the ability to meet
- 5 area-of-origin water demands during that time period?
- 6 CO-HEARING OFFICER DODUC: Miss Morris.
- 7 MS. MORRIS: Objection: Calls for a legal
- 8 opinion; assumes facts not in evidence.
- 9 CO-HEARING OFFICER DODUC: From your
- 10 experience, are you able to answer that not as an
- 11 attorney?
- 12 WITNESS STORK: Yeah. I --
- 13 CO-HEARING OFFICER DODUC: Go ahead.
- 14 WITNESS STORK: I -- I think it's -- it's
- 15 difficult to know, so that's one reason why the answer
- 16 is difficult to formulate.
- 17 If there was an indefinite deferral of parts
- 18 of the Project, the operations of the Project that was
- 19 actually constructed would be under different pressures
- 20 and different operational opportunities.
- 21 And that may have an effect on, for example,
- 22 operations at Folsom Dam, which is a State wild and
- 23 scenic river downstream of that.
- So, I can't -- I can't say with precision what
- 25 all the concerns would be, but there would be a

- 1 difference if only part of the Project was constructed.
- 2 MS. MESERVE: And would it be fair to say that
- 3 you're advocating for water right petitions that would
- 4 be granted and acted upon within a reasonable period of
- 5 time so that the conditions would be accurate?
- 6 WITNESS STORK: I think it's been the judgment
- 7 of the Board that it is helpful when they're issuing
- 8 water rights that the Project is -- is capable of
- 9 constructing and intends to construct the Project. And
- 10 I think that's a good thing.
- 11 MS. MESERVE: Now, you've been with Friends of
- 12 the River since 1987. And Friends of the River's been
- 13 very active in protecting rivers throughout the state;
- 14 right?
- 15 WITNESS STORK: I don't know of an
- 16 organization that has had more of a singular focus than
- 17 Friends of the River on that issue.
- 18 MS. MESERVE: Now, Sacramento River is not a
- 19 wild and scenic river; is it?
- 20 WITNESS STORK: It is not.
- MS. MESERVE: And it's not known for kayaking,
- 22 for instance, or other white water sports.
- 23 WITNESS STORK: You know, when all the other
- 24 rivers are down, the Sacramento has water with it.
- 25 But it isn't a white water river, at least

- 1 downstream of the Shasta Dam complex.
- 2 MS. MESERVE: In your review, does the
- 3 Sacramento River provide important public benefits?
- 4 WITNESS STORK: Yes.
- 5 MS. MESERVE: What kind of benefits?
- 6 WITNESS STORK: Fishery, recreation, birding,
- 7 the kinds of amenities that the Sacramento Valley has
- 8 grown accustomed to over the years.
- 9 MS. MESERVE: And, in your opinion, would it
- 10 be necessary to conduct water modeling in order to
- 11 predict those negative impacts you just mentioned?
- 12 WITNESS STORK: Yes.
- MS. MESERVE: Are you aware that the intakes
- 14 themselves would take up a couple of miles of the
- 15 riverbank?
- 16 WITNESS STORK: Yes.
- MS. MESERVE: Would it be necessary to conduct
- 18 water modeling in order to predict those impacts on
- 19 recreational, for instance?
- 20 WITNESS STORK: Yeah. It wouldn't be water
- 21 modeling. It would be an assessment of the effects
- 22 on -- on habitat and recreation.
- MS. MESERVE: So it wouldn't be necessary to
- 24 conduct modeling for -- to understand those kinds of
- 25 impacts; right?

- 1 WITNESS STORK: The model -- The hydrologic
- 2 modeling I think would be associated with the actual
- 3 diversions, not the physical facilities.
- 4 MS. MESERVE: And thinking back on your career
- 5 at Friends of the River, do you think -- are you
- 6 familiar with the term "sustainable"?
- 7 WITNESS STORK: Yes.
- 8 MS. MESERVE: And do you think that it's
- 9 sustainable to continue to divert additional rivers
- 10 into infrastructure for human use the way that it's
- 11 proposed in this particular Petition?
- 12 CO-HEARING OFFICER DODUC: Ms. Morris.
- MS. MORRIS: Thank you.
- 14 I would just object that this witness
- 15 testified that he hadn't looked at any of the modeling
- 16 for this Project, and that for him to offer an opinion
- 17 without having looked at the modeling or all the
- 18 documents would be speculative at best.
- 19 CO-HEARING OFFICER DODUC: Miss Meserve.
- MS. MESERVE: I think we've just established
- 21 that the footprint of the Project itself and other
- 22 aspects of it are well within the realm of Mr. Stork
- 23 and other witnesses without having conducted any
- 24 modeling themselves.
- 25 CO-HEARING OFFICER DODUC: It is his opinion.

- 1 Overruled.
- 2 WITNESS STORK: You'd have to repeat the
- 3 question.
- 4 MS. MESERVE: Going back to your understanding
- 5 of "sustainable," do you believe that a Project that --
- 6 whose purpose is to divert a river into infrastructure
- 7 is a sustainable solution as proposed here?
- 8 CO-HEARING OFFICER DODUC: Ms. Morris.
- 9 MS. MORRIS: Objection: Vague and ambiguous
- 10 as to "divert a river." The Project doesn't divert the
- 11 whole river.
- 12 CO-HEARING OFFICER DODUC: Yes.
- MS. MESERVE: Let's clarify. Thank you.
- 14 A portion of the Sacramento River in two
- 15 tunnels for this Project.
- 16 CO-HEARING OFFICER DODUC: As proposed by this
- 17 Project.
- MS. MESERVE: As proposed.
- 19 CO-HEARING OFFICER DODUC: Ms. Morris.
- 20 MS. MORRIS: I would just object that I don't
- 21 think the witness has testified that he has the
- 22 knowledge of what portion of flows are going to be
- 23 diverted from the Sacramento River and at what times to
- 24 draw a conclusion or opinion on this question.
- 25 CO-HEARING OFFICER DODUC: So noted.

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1 Let him answer.
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- 2 WITNESS STORK: Actually, I believe I said I
- 3 was the consumer of models, not the creator of models.
- 4 That's a -- That's a tough question, because
- 5 sustainability is obviously a somewhat vague term.
- 6 I think that diversions from the San Joaquin
- 7 River have gone past what is sustainable. Obviously,
- 8 parts of the San Joaquin River have no water in it
- 9 anymore.
- 10 That's a fairly low bar.
- Diversions from the Sacramento are . . .
- 12 It's a bigger river but big diversions at
- 13 times when there's a need for flow past those points is
- 14 unsustainable from a . . . ecological perspective.
- 15 (Timer rings.)
- 16 MS. MESERVE: May I have just five limits and
- 17 I'll finish it with Mr. Minton, please?
- 18 CO-HEARING OFFICER DODUC: Five minutes to
- 19 finish up with Mr. Minton?
- MS. MESERVE: Yes.
- 21 CO-HEARING OFFICER DODUC: Okay.
- 22 MS. MESERVE: Can we bring up the -- I have an
- 23 article on a flash drive that I wanted to ask
- 24 Mr. Minton about.
- Just to begin with, Mr. Minton, your

- 1 testimony --
- 2 (Exhibit displayed on screen.)
- 3 MS. MESERVE: -- discusses alternative means
- 4 to meet supplies without building the twin tunnels; is
- 5 that right?
- 6 WITNESS MINTON: Correct.
- 7 MS. MESERVE: And I have an article that was
- 8 in the San Francisco Chronicle last week regard -- by
- 9 Mr. Matthews regarding L.A. and the Delta tunnels.
- 10 Are -- Are you familiar with this opinion
- 11 piece?
- 12 WITNESS MINTON: I read it.
- 13 MS. MESERVE: Do you agree with Mr. Matthews
- 14 that L.A. needs the tunnels?
- 15 WITNESS MINTON: I do not.
- MS. MESERVE: And why not?
- 17 WITNESS MINTON: There are perhaps two main
- 18 arguments for the tunnels.
- 19 One is as a backup in the event of massive
- 20 levee failures within the Delta.
- 21 And the second is, by some, the idea that
- 22 these tunnels would actually provide more water. I
- 23 know that may not -- in amounts that exceed what is
- 24 shown in the modeling. But there are people who are
- 25 saying that it would do more.

One of the problems with the argument about

- 2 the failure of the Delta levees is to keep in mind
- 3 that, on average -- even if this Project was built, on
- 4 average, about half of the water diverted would still
- 5 be diverted from the South Delta.
- And what that means is, the levees,
- 7 particularly along Old and Middle Rivers, have to be
- 8 maintained, strengthened, even in the face of sea-level
- 9 rise.
- 10 Once you strengthen those levees, you reduce
- 11 the argument that they're going to fail and be lost for
- 12 unacceptably long periods of time.
- 13 And, in fact, it's my understanding that the
- 14 Department of Water Resources and the Metropolitan
- 15 Water District of Southern California have wisely
- 16 prepositioned rock in strategic locations for
- 17 relatively quick emergency repairs of those levees.
- 18 We also know that -- I know that the
- 19 Metropolitan Water District of Southern California has
- 20 worked with Delta Engineers to identify which levees
- 21 are most critical for improvement, and they have
- 22 actually begun doing some of those improvements. The
- 23 Bacon Island levee improvements that are underway is
- 24 one example of that.
- 25 So then you look at the water supply options.

- 1 And Southern California -- I've been working with them
- 2 since about 1980 on ways to improve their reliability,
- 3 things like water conservation.
- 4 And I will go back to the preceding 1641.
- 5 As some may recall, one draft initially said:
- 6 Well, cut everybody 20 percent. That was a draft in
- 7 1641. That didn't go too far, as I recall.
- 8 But, as an outgrowth of that, there was the
- 9 creation of the Urban Water Conservation Best
- 10 Management Practices. I was assigned to work with
- 11 parties to develop these.
- 12 Metropolitan and others said: Well, that's
- 13 interesting, but it isn't going to make any real
- 14 difference.
- Well, turns out it did make a big difference.
- 16 When I was in charge of the water recycling
- 17 effort for the Department of Water Resources, they
- 18 said: Well, that's interesting but it's not really
- 19 going to go anywhere. It's the . . . toilet-to-tap
- 20 syndrome.
- 21 Well, we've gotten past that. Now we're
- 22 finding that there are additional opportunities: Local
- 23 storm water capture, improvements of the groundwater
- 24 basins that have been polluted. We're seeing projects
- 25 everywhere.

1 So, in my view, this local resiliency can more

- 2 than makeup for any of the purported benefits without
- 3 the already-identified and -admitted adverse impacts,
- 4 plus others I think are likely to occur which have not
- 5 been admitted.
- 6 So, yes, I -- I firmly believe that Southern
- 7 California and the Bay Area are going to be able to
- 8 continue to meet their needs with those kinds of
- 9 Projects.
- 10 MS. MESERVE: And your testimony mentions the
- 11 Coalition to Support Delta Projects.
- 12 In that process that you helped lead, was
- 13 there broad agreement around permitting and funding
- 14 levee maintenance?
- 15 WITNESS MINTON: There was unanimous agreement
- 16 about that, and funds were secured from the Department
- 17 of Water Resources, similar to Prop 1A and other funds,
- 18 so that those improvements are underway as we speak.
- 19 MS. MESERVE: Thank you.
- No further questions.
- 21 CO-HEARING OFFICER DODUC: Thank you.
- 22 Mr. Herrick.
- 23 Mr. Shutes, do you still need 30 minutes?
- MR. SHUTES: That's a reasonable estimate.
- 25 CO-HEARING OFFICER DODUC: Then we will take

- 1 our lunch break after Mr. Herrick is done.
- 2 MR. HERRICK: Thank you Hearing Officer, Board
- 3 Members.
- 4 John Herrick for South Delta parties. This
- 5 won't take more than probably five minutes.
- 6 CROSS-EXAMINATION BY
- 7 MR. HERRICK: Miss Des Jardins, I just want to
- 8 clarify something that was brought up on cross.
- 9 You testified that you thought that Central
- 10 Delta Water Agency contributed to your GoFundMe
- 11 account.
- 12 Would it refresh your recollection to say that
- 13 was somebody associated with Southern Delta but not the
- 14 agency.
- 15 WITNESS DES JARDINS: It was an individual.
- 16 It was not -- It was just an individual helping me.
- 17 And you're correct, it wasn't -- it wasn't the
- 18 agency, and it had nothing to do with Central Delta's
- 19 case.
- 20 MR. HERRICK: Thank you.
- 21 And Mr. Minton -- Dr. Minton. Are you a
- 22 doctor? You're now a doctor.
- 23 Mr. Minton, you just gave a nice answer or a
- 24 comprehensive answer to a question by Miss Meserve. I
- 25 just want to follow up on that.

- 1 So it's your opinion that because of
- 2 tremendous strides in conservation and reuse of water
- 3 and the fact that acreages of land in the southern
- 4 valley may go out of -- be brought out of agricultural
- 5 production.
- 6 It's your testimony, then, that a Project that
- 7 would cost billions of dollars is not in the public
- 8 interest at this time; is that correct?
- 9 WITNESS MINTON: That is correct.
- 10 The cost estimates that I've heard of,
- 11 \$17 billion for WaterFix, and that's based my
- 12 understanding on a maybe less than or equal to
- 13 10 percent design, which means, in my view, based on my
- 14 experience, costs are likely to be much higher.
- 15 Investing even a fraction of that amount in
- 16 local water supply projects that also create local jobs
- 17 is a far better investment of funds, and it's much more
- 18 protective of public trust values.
- 19 MR. HERRICK: And would it be your opinion
- 20 that if -- if a project that -- that entailed such high
- 21 costs, like the, you know, 10 to \$15 billion cost to
- 22 the WaterFix, that that would remove available funds
- 23 for some of the projects you're talking about?
- 24 WITNESS MINTON: Yes.
- 25 CO-HEARING OFFICER DODUC: Hold on.

- 1 MS. MORRIS: That calls for speculation.
- 2 Mr. Minton does not what other Water Districts
- 3 may or may not invest in, with or without this Project.
- 4 CO-HEARING OFFICER DODUC: We acknowledge that
- 5 it's pure speculation.
- 6 MR. HERRICK: I won't comment on whether it's
- 7 speculation or not.
- 8 WITNESS MINTON: I could add that, having been
- 9 a Water Agency Manager myself, I'm aware that, when
- 10 there are finite amounts of funds available, there are
- 11 tough choices by Boards of Directors.
- 12 And it is only logical that, if significant
- 13 amounts of funding are going in one project, those
- 14 funds will not be available for other projects.
- 15 MR. HERRICK: Thank you.
- 16 Mr. Minton, on Page 8 of your testimony, you
- 17 briefly mention the Delta Reform Act goals of
- 18 restoring, enhancing the Delta ecosystem, and
- 19 maintaining and enhancing the Delta as a place.
- 20 Do you recall that?
- 21 WITNESS MINTON: Yes.
- MR. HERRICK: Do you have any opinion on
- 23 whether or not the construction-related impacts that
- 24 have been discussed in these hearings would maintain or
- 25 enhance the Delta as a place?

- 1 CO-HEARING OFFICER DODUC: Miss Morris.
- 2 MS. MORRIS: Objection: Lacks foundation.
- 3 This witness has not testified that he's
- 4 looked at the construction impacts, the length of them,
- 5 or how they may or may not impact the Delta.
- 6 MR. HERRICK: I could lay foundation if you
- 7 want, but I thought we were trying to avoid such
- 8 things.
- 9 CO-HEARING OFFICER DODUC: Yes.
- 10 Mr. Minton, to what extent can you answer the
- 11 question?
- 12 WITNESS MINTON: I have personally visited and
- 13 toured the Delta.
- 14 My knowledge of just the access that would be
- 15 denied during the lengthy construction period indicates
- 16 to me that those values would be significantly
- 17 impaired.
- 18 MR. HERRICK: And, Mr. Minton, let's just
- 19 assume the Project is constructed and we're all through
- 20 with the -- any sort of impacts that deal with the
- 21 construction -- ongoing construction.
- Does this Project, after it's all done, do
- 23 anything to maintain the Delta as a place?
- 24 WITNESS MINTON: Not that I'm aware of.
- 25 MR. HERRICK: Dr. Stork.

- 1 Mr. Stork. Sorry.
- 2 All right. I can't see everybody's name tag.
- 3 I'm sorry. I don't want to insult anybody.
- 4 Mr. Stork, on Page 12 of your testimony, you
- 5 provide a -- what is that -- a chart from Bulletin 76.
- 6 Do you see that?
- 7 WITNESS STORK: I do.
- 8 MR. HERRICK: And you testified that this is
- 9 an indication of expected water supplies for the State
- 10 Water Project resulting from north coast river
- 11 developments; is that correct?
- 12 WITNESS STORK: Expected at that time, 1960.
- MR. HERRICK: Yes, thank you.
- 14 And, of course, those supplies have not and
- 15 probably will not be developed; is that correct?
- 16 WITNESS STORK: That is my hope, at least
- 17 illegal supplies should not be part of the State Water
- 18 Project.
- 19 MR. HERRICK: So do you think it's prudent to
- 20 move forward on a project that deals with exports
- 21 before we've determined how much supply's available for
- 22 exports?
- 23 WITNESS STORK: I believe that's been our
- 24 position for several years, yes.
- MR. HERRICK: So would you recommend that we

1 determined things, such as fishery needs or superior

- 2 rights needs or public trust needs, before we
- 3 determine -- we approve a project that involves the
- 4 significant exports of the water from the Delta?
- 5 WITNESS STORK: That's been our position.
- 6 MR. HERRICK: And, Dr. Kolb, just one question
- 7 for you.
- I have one more for Mr. Minton. I'm sorry.
- 9 Dr. Kolb, you had some testimony and some
- 10 cross-examination about the impacts on the Delta
- 11 resulting from the Project.
- 12 You recall that; correct?
- 13 WITNESS KOLB: Yes.
- 14 MR. HERRICK: Now, without getting into any
- 15 specifics of modeling or anything, do you have an
- 16 opinion on whether or not a freshwater estuary can be
- 17 improved if you decrease the amount of fresh water
- 18 flowing into the estuary?
- 19 WITNESS KOLB: No. It would not improve it.
- 20 It would degrade it.
- MR. HERRICK: And, of course, we might come up
- 22 with a situation where, you know, when the Sacramento
- 23 River's at 200,000 cfs or something, you could siphon
- 24 off some water with no effects.
- 25 But your opinion is generally based upon

1 operation of a Project that proposes to take water out

- 2 before it reaches the Delta; correct?
- 3 WITNESS KOLB: Yes, that's right.
- 4 MR. HERRICK: Mr. Minton, I have one last
- 5 question I forgot.
- 6 You referenced, as did other witnesses, you
- 7 know, having numerical limits or goals as part of a
- 8 prerequisite to approving his Project.
- 9 WITNESS MINTON: That's correct.
- 10 In our Exhibit A, affordable water solutions,
- 11 that is one of the solutions. First, to have the water
- 12 standards so that, as -- When I was a Water Agency
- 13 Manager, if I knew what the limits were and the rules
- 14 were, I could move forward with the Project.
- 15 If I tried to move forward with the Project
- 16 first, it created the kind of confusion that I think
- 17 is -- is occurring in this proceeding.
- 18 MR. HERRICK: And would you agree that it's
- 19 not just confusion but it creates the wrong incentives,
- 20 in that if there's not a specific goal one has to meet,
- 21 we end up with these adaptive management strategies
- 22 whereby the various interests fight it out over how
- 23 much protection you get?
- 24 CO-HEARING OFFICER DODUC: Miss Morris.
- 25 MS. MORRIS: Objection: I think it calls for

1 speculation. But beyond that, it implies that somehow

- 2 the adaptive management's going to be -- There's
- 3 implications being made by the question that I don't
- 4 think are facts in the record.
- 5 CO-HEARING OFFICER DODUC: Mr. Herrick, would
- 6 you like to rephrase?
- 7 MR. HERRICK: Yes. I was going to say that,
- 8 yes, I was making those implications.
- 9 But, Mr. Minton, do you understand that part
- 10 of the Petition here includes the to-be-developed
- 11 adaptive management associated with the Project?
- 12 WITNESS MINTON: Yes.
- MR. HERRICK: And that adaptive management
- 14 will have some sort of process that will -- the needs
- 15 of the estuary and the needs of exports will somehow
- 16 work out, operational decisions based upon the data
- 17 available at the time; correct?
- 18 WITNESS MINTON: I understand that there is
- 19 a -- I would consider a fairly vaguely described
- 20 adaptive management process.
- 21 It does not have the kind of limits and
- 22 consequences that are found in successful Adaptive
- 23 Management Programs. It's more kind of a hope and a
- 24 prayer that things will work out in the future,
- 25 which -- with -- when dealing with the Delta ecosystem

1 that is so already impacted, in collapse, that kind of

- 2 flexibility is no -- no reasonable way to proceed.
- 3 MR. HERRICK: I'll leave it at that. Thank
- 4 you very much.
- 5 No further questions.
- 6 CO-HEARING OFFICER DODUC: Thank you,
- 7 Mr. Herrick.
- 8 Let's do a time check. We will adjourn and
- 9 come back at 1:30, and Mr. Shutes needs 30 minutes, so
- 10 that's 2 p.m.
- 11 At this time, Mr. Wright, Mr. Jones, do you
- 12 have any direct planned -- redirect? Sorry.
- MR. WRIGHT: So far, I have not formulated or
- 14 heard anything calling upon redirect as of now --
- 15 CO-HEARING OFFICER DODUC: Okay.
- MR. WRIGHT: -- from me.
- 17 CO-HEARING OFFICER DODUC: So -- Understood.
- 18 So assuming that we might wrap up this panel by about
- 19 2 o'clock, we'll turn to Mr. Colin -- Mr. Bailey.
- 20 Sorry.
- 21 Mr. Bailey, how much time do you need for
- 22 direct?
- 23 LEFT9: I anticipate less than an hour.
- 24 CO-HEARING OFFICER DODUC: For the entirety of
- 25 your direct.

- 1 LEFT9: Correct.
- 2 CO-HEARING OFFICER DODUC: So that will get us
- 3 to 3 o'clock or thereabouts.
- 4 Estimate for cross, keeping in mind that we
- 5 will adjourn at 5:00 today.
- 6 MS. ANSLEY: I think that we have no more
- 7 than . . .
- I'm sorry, can we have a moment, please?
- 9 CO-HEARING OFFICER DODUC: Anyone else besides
- 10 the Department?
- 11 Mr. Herrick.
- 12 MR. HERRICK: John Herrick for South Delta
- 13 parties.
- I would reserve 10 minutes but it might be
- 15 zero. I might have no questions.
- 16 CO-HEARING OFFICER DODUC: You have a
- 17 microphone right there, Miss Des Jardins.
- 18 MS. DES JARDINS: Okay. Dierdre Des Jardins
- 19 for California Water Research.
- I'd like to reserve 10 minutes.
- 21 MS. ANSLEY: I apologize. I had forgotten
- 22 Mr. Heagerty was joining that.
- 23 CO-HEARING OFFICER DODUC: Yes.
- MR. BAILEY: I'm sorry.
- MS. ANSLEY: Oh.

1	MR. BAILEY: He's not going to be here.
2	MS. ANSLEY: Oh, he's not here. Okay. So
3	I
4	CO-HEARING OFFICER DODUC: So are you
5	withdrawing Mr. Heagerty as a witness?
6	MR. BAILEY: I think we will have to, yes.
7	CO-HEARING OFFICER DODUC: Okay.
8	MS. ANSLEY: Then for the remaining witnesses
9	of that Panel 2, Just Environmental Justice
10	Coalition for Water, the DWR has about 20 to 30
11	minutes.
12	CO-HEARING OFFICER DODUC: All right. Then we
13	will definitely finish with the EJCW panels as well
14	today.
15	With that, we will adjourn and return at 1:30.
16	(Lunch recess at 12:34 p.m.)
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- 1 Monday, April 2, 2018 1:30 p.m.
- 2 PROCEEDINGS
- 3 ---000---
- 4 CO-HEARING OFFICER DODUC: All right. It is
- 5 1:30. We are back in session.
- 6 Are there any housekeeping matters we need to
- 7 discuss?
- 8 Seeing none, I'll turn it over to Mr. Shutes
- 9 who has requested 30 minutes for his cross-examination.
- 10 And let it be noted, we now have Miss Gaylon
- 11 helping us out.
- MS. GAYLON: Just to note: This timer isn't
- 13 working at the moment.
- 14 CO-HEARING OFFICER DODUC: Oh, okay. So it's
- 15 now 1:30. Mr. Shutes, you have until 2:00 p.m.
- 16 MR. SHUTES: I will do my best to make it that
- 17 amount of time or shorter.
- 18 Good afternoon. Chris Shutes for the
- 19 California Sportfishing Protection Alliance.
- I have two lines of questioning basically:
- 21 One is for Mr. Minton about coequal goals; and one is
- 22 for Mr. Stork about uncertainty and discretion.
- 23 CO-HEARING OFFICER DODUC: I'm sorry.
- 24 Uncertainty and . . .
- MR. SHUTES: Discretion.

- 1 CO-HEARING OFFICER DODUC: Discretion. Okay.
- 2 CROSS-EXAMINATION BY
- 3 MR. SHUTES: Good afternoon, Mr. Minton.
- 4 WITNESS MINTON: Good afternoon, Mr. Shutes.
- 5 MR. SHUTES: Much of your testimony concerns
- 6 coequal goals; correct?
- 7 WITNESS MINTON: Yes.
- 8 MR. SHUTES: Is it your understanding that the
- 9 California WaterFix would increase water supply
- 10 reliability by allowing the capture and diversion of
- 11 additional unregulated water at the North Delta
- 12 diversions compared to existing facilities?
- 13 WITNESS MINTON: Yes.
- MR. SHUTES: Do you understand that the
- 15 Proponents have suggested that reservoir operations of
- 16 Central Valley Projects and State Water Project
- 17 reservoirs would essentially not change under
- 18 California WaterFix?
- 19 WITNESS MINTON: That's my understanding of
- 20 what they represent.
- 21 MR. SHUTES: Thank you.
- 22 If State Water Project and California -- and
- 23 Central Valley Project reservoir operations would
- 24 remain unchanged under California WaterFix, would in
- 25 your view the California WaterFix increase the

- 1 reliability of the two Projects in meeting year-end --
- 2 year-round in-basin uses, including water quality
- 3 requirements in the Delta and downstream of the storage
- 4 reservoirs?
- 5 WITNESS MINTON: I do not see or believe that
- 6 they could achieve those without changing the upstream
- 7 operations.
- 8 MR. SHUTES: In terms of the reliability for
- 9 water supply and environmental protection, then, does
- 10 California WaterFix as proposed appear to you to offer
- 11 coequal benefits?
- 12 WITNESS MINTON: It does not.
- 13 MR. SHUTES: What, if any, direct
- 14 environmental benefits would accrue to -- from the use
- 15 of the North Delta diversions?
- 16 And by "direct benefits," I mean benefits that
- 17 don't derive from offsets or replacements of other
- 18 actions that the State and Federal Projects might
- 19 undertake.
- 20 WITNESS MINTON: I'm not sure I fully
- 21 understand your question.
- 22 Could you rephrase it?
- 23 MR. SHUTES: I'll start again. And having
- 24 heard the qualifier, what, if any, direct environmental
- 25 benefits would accrue due to the use of the North Delta

- 1 diversions as opposed to any other facilities?
- 2 WITNESS MINTON: My understanding is that the
- 3 Proponents' assertion is that, by diverting some of the
- 4 water from the North Delta, it could reduce the adverse
- 5 impacts of some of the South Delta diversions.
- 6 MR. SHUTES: But there would be no -- no
- 7 direct benefits from using the North Delta diversions,
- 8 per se, in your understanding; would there?
- 9 WITNESS MINTON: By "direct," I'm not sure
- 10 what you mean, sir.
- MR. SHUTES: As opposed to offsets or
- 12 replacements or other actions that would not be done
- 13 somewhere else.
- 14 WITNESS MINTON: Correct, there would not be.
- MR. SHUTES: On Page 6 of your testimony, you
- 16 describe the potential for another phase or part of the
- 17 California WaterFix hearing to determine appropriate
- 18 Delta Flow Criteria.
- 19 WITNESS MINTON: Um-hmm.
- 20 MR. SHUTES: Could you, in broadbrush describe
- 21 what that might entail, in your view?
- 22 WITNESS MINTON: And I can refer to our
- 23 exhibit, "8 Affordable Reliable Water Solutions," which
- 24 is in the record. One of those solutions is
- 25 science-based flow standards. The short version of it

- 1 is standards first, water applications second.
- 2 So I'm aware that the State Board already has
- 3 underway the update of the Water Quality Control Plan.
- 4 And it -- As a former project developer and a
- 5 former water rights applicant, and having actually
- 6 received -- led the effort to receive a new water right
- 7 for El Dorado County, it would seem to me that, if the
- 8 Board can continue its work on updating the Water
- 9 Quality Control Plan, and then look at the -- the
- 10 application before it or, as it may be continuously
- 11 evolving, that just makes sense. That's the
- 12 common-sense approach.
- Doing it the other way just risks too many
- 14 uncertainties for the applicant, for the Protestants
- 15 and for the environment.
- 16 MR. SHUTES: So -- But what you suggest in
- 17 your testimony is another phase of the WaterFix hearing
- 18 as opposed to waiting for the update of the Water
- 19 Quality Control Plan to occur before completing the
- 20 WaterFix hearing.
- 21 Did you have any specific process or sort of
- 22 needs in mind that that phase would have to undertake
- 23 when you wrote that?
- 24 WITNESS MINTON: That was in recognition of
- 25 the schedule that the Petitioners have put forth and

- 1 the State Board has adopted, which, as I understand it,
- 2 calls for a decision on the Petition before the Water
- 3 Quality Control Plan is amended.
- 4 And so I don't have a specific methodology for
- 5 including what would, in essence, be the functional
- 6 equivalent of that standard. But, again, absent that,
- 7 I just don't know how one can adequately assess what
- 8 the impacts of this Project would be on a variety of
- 9 beneficial uses certainly within the Delta and for
- 10 those water users upstream of the Delta.
- 11 MR. SHUTES: Thank you very much, Mr. Minton.
- 12 Good afternoon, Mr. Stork.
- 13 WITNESS STORK: Good afternoon, Mr. Shutes.
- 14 MR. SHUTES: Mr. Stork, Friends of the River
- 15 recently commented on the DEIR/DEIS for the Sites
- 16 Reservoir Project; is that correct?
- 17 WITNESS STORK: That's correct.
- 18 MR. SHUTES: To your knowledge, does the
- 19 DEIR/DEIS for Sites Reservoir contain a detailed
- 20 Operations Plan for Sites water -- Sites Reservoir if
- 21 that reservoir is built?
- 22 WITNESS STORK: That was our observation, and
- 23 we told them that.
- 24 MR. SHUTES: Your observation was that it does
- 25 not?

1 WITNESS STORK: It does not contain detailed

- 2 Operational Plan or, for that matter, who the
- 3 beneficiaries are.
- 4 MR. SHUTES: Does it contain any Operations
- 5 Plan?
- 6 WITNESS STORK: That . . .
- 7 The operations would be dependent on meeting
- 8 Decision 1641 in the Delta was their major operational
- 9 constraint.
- 10 MR. SHUTES: Does the Sites DEIR/DEIS include
- 11 an alternative that evaluates the impacts of Sites
- 12 Reservoir with the California WaterFix in place?
- 13 CO-HEARING OFFICER DODUC: Hold on, please.
- 14 Miss Morris.
- MS. MORRIS: I just object to relevance.
- 16 The Sites Reservoir is a separate project, and
- 17 it hasn't completed an environmental review or other
- 18 things and so it's unclear how -- We don't know yet how
- 19 it may be incorporated and what analysis would occur.
- 20 CO-HEARING OFFICER DODUC: Mr. Shutes.
- 21 MR. SHUTES: Mr. Stork's testimony was that
- 22 they're done of several different types of projects
- 23 that may be incentivized in some way by the California
- 24 WaterFix.
- 25 I'm trying to get a little bit of

1 understanding of what we know today about one of those

- 2 specific projects. That's . . . Yes.
- 3 CO-HEARING OFFICER DODUC: And how is that
- 4 relevant to one of the key hearing issues before us?
- 5 MR. SHUTES: I think what it does is, it
- 6 addresses . . . where the water would come from and
- 7 it -- and it addresses what the public interest might
- 8 be in the further -- in the sort of secondary effects
- 9 of California WaterFix if -- if indeed the California
- 10 WaterFix is approved.
- 11 CO-HEARING OFFICER DODUC: I don't know that I
- 12 follow that. I did not follow that.
- MR. SHUTES: Mr. Stork's testimony addresses
- 14 the fact that, with California WaterFix in place, there
- 15 are different projects that might become more viable or
- 16 likely to occur because of the availability of
- 17 increased conveyance.
- 18 CO-HEARING OFFICER DODUC: All right.
- 19 MR. SHUTES: What I'm trying to figure out is
- 20 what we know about one of those projects, and whether
- 21 there is any information there that has evaluated how
- 22 it might work in tandem with the -- the California
- 23 WaterFix operations.
- 24 CO-HEARING OFFICER DODUC: I'd rather know
- 25 actually from Mr. Stork in which way -- How do you

1 believe WaterFix would . . . actually . . . incentivize

- 2 these Projects?
- 3 WITNESS STORK: I do believe that. And I
- 4 think my testimony goes to that.
- 5 Clearly, Mr. Kightlinger's interview here in
- 6 Sacramento where he said that, essentially, we're in on
- 7 Sites unless we don't have the WaterFix Tunnels.
- 8 Without the tunnels, we're not interested in
- 9 constructing and being part of this reservoir complex.
- 10 CO-HEARING OFFICER DODUC: So, if I understand
- 11 it, your testimony, and what Mr. Shutes is trying, I
- 12 think, to question you on -- Or at least your testimony
- 13 is that, in considering the public interest of the
- 14 WaterFix proposal that is before us, we should also
- 15 consider other potential projects that it may
- 16 incentivize.
- 17 WITNESS STORK: That's correct.
- 18 MS. MORRIS: May I briefly?
- 19 I would just move to strike that statement as
- 20 hearsay. That's -- Mr. Stork has no personal knowledge
- 21 of that other than an interview that was not -- it was
- 22 in Maven's Notebook and that's his only citation.
- 23 So there are no facts in this record to
- 24 support that, and the only fact is hearsay.
- 25 And, again, it's Maven summarizing a

- 1 conversation in an interview with Mr. Kightlinger.
- 2 CO-HEARING OFFICER DODUC: Okay. So it's
- 3 noted as a hearsay objection.
- 4 Overruled for now. I will allow Mr. Shutes to
- 5 explore this a little bit, though the length is
- 6 tenuous.
- 7 MR. SHUTES: I think I'm done with that
- 8 particular line of questioning. Thank you.
- 9 Mr. Stork, on Page 6 of your testimony, you
- 10 have a heading that says (reading):
- 11 "Project Deliveries and Operations
- 12 Are Uncertain Because the Project is
- 13 Uncertain."
- 14 Do you recall that?
- 15 WITNESS STORK: Yes.
- MR. SHUTES: Mr. Stork, isn't it true that the
- 17 defining purposes of a defined project may not always
- 18 be the only outcomes if the Project is completed?
- 19 WITNESS STORK: True enough.
- 20 MR. SHUTES: On Page 9 of your testimony, you
- 21 suggest that the discretion of the Central Valley
- 22 Project and State Water Project Managers and Operators
- 23 allow many possible outcomes; is that correct?
- 24 WITNESS STORK: That is correct.
- 25 MR. SHUTES: So, within the Proposed Project,

- 1 regardless of how defined it is, in your opinion, if
- 2 Project deliveries and operations -- are Project
- 3 deliveries and -- and operations under California
- 4 WaterFix uncertain just for that reason?
- 5 MS. MORRIS: Excuse me.
- 6 CO-HEARING OFFICER DODUC: Miss Morris.
- 7 MS. MORRIS: I'm sorry. Thank you.
- 8 Calls for speculation.
- 9 He is not a Project Operator, and the
- 10 implication here is that somehow DWR and the Bureau
- 11 will not follow the rules in the Biological Opinions or
- 12 under -- their responsibilities under the Water Quality
- 13 Control Plan.
- 14 CO-HEARING OFFICER DODUC: Can you rephrase.
- 15 MR. SHUTES: Mr. Stork has followed and rather
- 16 carefully monitored the operations of the State and
- 17 Federal Projects for the last 30 years, and I think
- 18 he's entitled to an opinion about general aspects of
- 19 how they're operated.
- 20 CO-HEARING OFFICER DODUC: And your question,
- 21 again, was?
- MR. SHUTES: You suggest -- Let's see.
- 23 So within the Proposed Project, regardless of
- 24 how defined it is today, is it your opinion that
- 25 Project deliveries and operations under California

- 1 WaterFix are uncertain?
- 2 CO-HEARING OFFICER DODUC: Overruled,
- 3 Miss Morris. His opinion.
- 4 WITNESS STORK: It is my opinion, and I also
- 5 note that it appears to be Reclamation's opinion as
- 6 well, as I quoted in -- in my testimony -- written
- 7 testimony.
- 8 There are a lot of variables that affect
- 9 operations. Obviously, Biological Opinions are one.
- 10 The decisions of this Board are another. The degree of
- 11 demand of the Project, Project facilities. All of
- 12 those things make a difference in Project operations.
- MR. SHUTES: Mr. Stork, isn't uncertainty in
- 14 the future operations of the -- of the Projects under
- 15 California WaterFix uncertain in part because of the
- 16 size and the scope of the State Water Project and the
- 17 California -- and the Central Valley Project?
- 18 WITNESS STORK: Yes, those are big projects.
- 19 And I noted they appear to be incomplete to varying
- 20 degrees, both as regard to major storage facilities and
- 21 the project build-out demand.
- MR. SHUTES: Mr. Stork, isn't it also true
- 23 that, in your experience, unexpected events can turn a
- 24 Project to unexpected outcomes?
- 25 WITNESS STORK: Well, unexpected events

- 1 certainly happen.
- 2 A few years back, Folsom Reservoir lost half
- 3 of its reservoir when a gate broke.
- 4 And then, of course, unexpected events
- 5 happen -- happened last year with quite a drama up
- 6 there at Oroville Project. And now, of course, they're
- 7 on a -- a temporary flood control regime that reduces
- 8 the . . . project storage during the -- during the
- 9 flood control season.
- 10 So unexpected events happen.
- 11 MR. SHUTES: And -- And drawing your attention
- 12 to some unexpected events at Oroville over the last 10
- 13 years, haven't the operations of Oroville changed
- 14 significantly because of various equipment failures
- 15 or . . . other problems with infrastructure?
- 16 CO-HEARING OFFICER DODUC: Miss Morris.
- MS. MORRIS: Objection: Relevance.
- 18 CO-HEARING OFFICER DODUC: What is the
- 19 relevance?
- 20 MR. SHUTES: The relevance is that we're
- 21 planning out for something that's -- that's going to be
- 22 happening in 15 years from now. And the presentation
- 23 of the Proponents has been that we can expect Project
- 24 operations to function as planned and as expected under
- 25 what might -- one might call the normal course of

- 1 operations.
- 2 I'm just pointing out the fact -- or asking
- 3 Mr. Stork to confirm the fact, based on actual
- 4 experience at the State Water Project, that things
- 5 don't always work out exactly as planned.
- 6 CO-HEARING OFFICER DODUC: I think that goes
- 7 for anything and everything in life.
- 8 MS. MORRIS: I just question: Is it probative
- 9 because he's -- this is -- As indicated by the
- 10 questioner, these are not normal circumstances that
- 11 they're operating under, and there's -- there's no
- 12 reason to believe that they would continue or -- and
- 13 they may change.
- 14 But it just seems very speculative.
- 15 CO-HEARING OFFICER DODUC: It is.
- 16 I'm -- I'm not --
- 17 MR. SHUTES: Let me --
- 18 CO-HEARING OFFICER DODUC: I'm not sustaining
- 19 your (sic) objection, Mr. Shutes, but I would agree
- 20 that I question the probative value of this line of
- 21 questioning.
- 22 WITNESS STORK: May I answer, or at least
- 23 attempt an answer, or provide an example of the fairly
- 24 significant departure that could happen that I think
- 25 this Board needs to consider, and that is Biological

- 1 Opinions come and go, and the Federal government
- 2 perhaps may not be quite the same partner that you've
- 3 had in the past.
- 4 So to the extent that -- that your
- 5 decisions . . .
- 6 Well, your decisions may be even more
- 7 necessary than they have been in the past because your
- 8 Federal partner may not be as reliable as it has in the
- 9 past.
- 10 I said that diplomatically.
- 11 MR. SHUTES: Going back to Oroville,
- 12 Mr. Stork.
- In about 2009, wasn't there a failure of the
- 14 gates that released water out of the bottom of Oroville
- 15 Reservoir?
- 16 CO-HEARING OFFICER DODUC: All right. I think
- 17 you've made your point.
- 18 I'm not sure what --
- 19 MR. SHUTES: So --
- 20 CO-HEARING OFFICER DODUC: -- additional
- 21 detail you want to get into the record and for what
- 22 purpose.
- MR. SHUTES: What I'm trying to point out here
- 24 is that these are not necessarily short-term stochastic
- 25 events, that they may endure for a decade, and that

1 that leaves the different operating regimes. And also

- 2 the changes in decisions about what future repairs and
- 3 operations are going to be.
- 4 CO-HEARING OFFICER DODUC: Ms. Morris.
- 5 MS. MORRIS: I just don't believe this is the
- 6 correct forum for this because this has nothing to do
- 7 with the Project or the Project operations.
- 8 And, quite frankly, it would be silly for us
- 9 to put on rebuttal. This is not an issue that is
- 10 currently before the Board and there's other venues for
- 11 this testimony, and I'm sure other -- that they will
- 12 seek and have sought those.
- MR. SHUTES: I'll move on, but just --
- 14 CO-HEARING OFFICER DODUC: Yeah. You --
- MR. SHUTES: -- to respond to Miss Morris.
- 16 I'm not trying to bring in something from outside here.
- 17 This really has to do with the predictability
- 18 and --
- 19 CO-HEARING OFFICER DODUC: Yes.
- 20 MR. SHUTES: -- reliability --
- 21 CO-HEARING OFFICER DODUC: And you've made
- 22 your point.
- MR. SHUTES: Okay.
- 24 CO-HEARING OFFICER DODUC: Let's move on.
- 25 MR. SHUTES: Mr. Stork, you said you were a

1 consumer of modelers -- of models but not a modeler; is

- 2 that correct?
- 3 WITNESS STORK: That's correct.
- 4 MR. SHUTES: In your experience as a consumer
- 5 of models, are models good at modeling discretion?
- 6 WITNESS STORK: Models attempt to model
- 7 discretion with varying degrees of success.
- 8 MR. SHUTES: Mr. Stork, in your experience, is
- 9 it reasonable to expect that Central Valley Project
- 10 Operators and Managers over the coming decades will
- 11 seek to use their discretion, whatever discretion is
- 12 available to them, to optimize long-term Project
- 13 delivery -- contract deliveries?
- 14 CO-HEARING OFFICER DODUC: Miss Morris.
- MS. MORRIS: Speculative.
- 16 CO-HEARING OFFICER DODUC: Yes, it is. We'll
- 17 take this for whatever worth it provides.
- 18 WITNESS STORK: Shall I answer with an
- 19 example?
- 20 The Congress has -- has indeed directed
- 21 Reclamation to undertake actions to maximize Project
- 22 deliveries, and they have initiated an EIS to do that.
- 23 So I'm not -- I'm not harshing on State Water Project
- 24 there, I'm harshing assisting on Reclamation and the
- 25 Congress.

- 1 MR. SHUTES: So, actually, my question was
- 2 just more about general how Operators, not just State
- 3 Valley -- State Water Project or Central Valley Project
- 4 Operators operate but any Water Project Operator.
- 5 Isn't it -- Hasn't it been your experience
- 6 that they try to optimize the purposes of their
- 7 Project, particularly for water supply, within the
- 8 constraints that they're put under?
- 9 WITNESS STORK: I -- I certainly have had
- 10 extensive experience in FERC relicensing especially,
- 11 and seeing just that.
- 12 It is the -- the overriding interest of the
- 13 Operators to optimize their Project's purposes.
- MR. SHUTES: Mr. Stork, on Page 7 of your
- 15 testimony, you refer to the Los Bagos Grande Reservoir
- 16 that has been approved as part of the State Water
- 17 Project but not constructed; is that correct?
- 18 WITNESS STORK: That is correct.
- 19 MR. SHUTES: Do you expect that DWR would
- 20 attempt to construct Los Bagos Grande Reservoir
- 21 specifically?
- 22 CO-HEARING OFFICER DODUC: Miss Morris.
- MS. MORRIS: Again, objection: Speculative.
- I just -- It doesn't seem probative. This
- 25 witness doesn't work for DWR.

1 If Mr. Shutes wanted to ask these questions,

- 2 he should have asked someone from DWR.
- 3 CO-HEARING OFFICER DODUC: Mr. Shutes.
- 4 MR. SHUTES: Again, I think Mr. Stork's
- 5 experience puts him in a position to reasonably answer
- 6 the question.
- 7 I could direct the question to Mr. Minton, who
- 8 has also worked -- who has worked for DWR, if that
- 9 would be --
- 10 CO-HEARING OFFICER DODUC: Enough. Enough.
- 11 I'm sustaining the objection.
- 12 MR. SHUTES: Okay. Very well.
- Mr. Stork, you're an environmental
- 14 representative on the Water Forum; correct?
- 15 WITNESS STORK: That is correct.
- MR. SHUTES: Mr. Minton, are you still a
- 17 representative on the Water Forum?
- 18 WITNESS MINTON: No, I am not.
- 19 MR. SHUTES: Thank you.
- 20 Mr. Stork, The Water Forum's proposed flow
- 21 management standard for the operation of the Lower
- 22 American River was described recently by Water Forum
- 23 representatives in this hearing.
- 24 Did you -- Are you aware of the testimony they
- 25 provided?

- 1 WITNESS STORK: I watched the testimony.
- 2 MR. SHUTES: And -- And I believe they
- 3 describe the -- the standard as having been iteratively
- 4 developed.
- 5 Is that what you recall?
- 6 WITNESS STORK: Yes.
- 7 CO-HEARING OFFICER DODUC: Miss Morris -- Hold
- 8 on.
- 9 Miss Morris.
- 10 MS. MORRIS: Just for clarity of the record,
- 11 are we talking about the flow management standard or
- 12 the modified flow management standard? I don't think
- 13 it's clear from the question. I just want to be clear
- 14 for the record.
- 15 CO-HEARING OFFICER DODUC: Mr. Shutes.
- 16 MR. SHUTES: I'm -- I'm not that familiar with
- 17 the terminology. Maybe Mr. Stork can provide the most
- 18 recent --
- 19 WITNESS STORK: I can help you.
- MR. SHUTES: Thank you.
- 21 WITNESS STORK: Both -- Both proposals, both
- 22 the modified and the one that was the predecessor, the
- 23 penultimate one involved iterative optimization
- 24 approaches. The modified one represents more recent
- 25 data as well as refined objectives.

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1 MR. SHUTES: At -- Having spent many years in
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- 2 that process as an environmental representative --
- 3 WITNESS STORK: More than a quarter of a
- 4 century.
- 5 MR. SHUTES: -- do you believe that that type
- 6 of iterative process would be appropriate for the
- 7 development of -- perhaps on a short-time basis --
- 8 would be appropriate for the development of carryover
- 9 storage and reservoir management operation requirements
- 10 for other Central Valley Project and State Water
- 11 Project reservoirs?
- 12 WITNESS STORK: Yes.
- 13 The Water Forum spent a lot of time on trying
- 14 to develop optimized Folsom operations. I have been
- 15 around other Projects and not seen that kind of
- 16 extensive modeling and optimization work to a lesser or
- 17 greater degree.
- 18 And, very frankly, I think that is a good
- 19 approach. It tends -- It tends to -- Particularly if
- 20 some of the Project critics have the opportunity to
- 21 walk with the Applicants in the development of their
- 22 optimizations, it tends to result in more consensus
- 23 and, I think, better proposals that may come before the
- 24 Board or National Marine Fishery BiOps.
- 25 MR. SHUTES: Last question: Mr. Stork, the

- 1 Water Forum evaluated the potential -- or series of
- 2 questions -- potential impacts of the modified flow
- 3 management standard for Folsom and Lower American River
- 4 to Shasta Reservoir and the Sacramento River; is that
- 5 correct?
- 6 WITNESS STORK: It did. The -- Well, the
- 7 Water Forum described their -- their methodology. It
- 8 was largely using, you know, the modeling effort that
- 9 was done by Reclamation, then essentially a refinement
- 10 to try and look at what would happen with varying
- 11 end-of -- end-of-season storage targets and if they
- 12 were imposed at Folsom Reservoir and what reassigned
- 13 impacts there might be at Shasta.
- 14 MR. SHUTES: Did the Water Forum consider
- 15 potential redirected impacts to Oroville or Trinity in
- 16 that analysis?
- 17 WITNESS STORK: I don't believe they did.
- 18 MR. SHUTES: Thank you --
- 19 WITNESS STORK: At least --
- 20 MR. SHUTES: -- very much.
- 21 WITNESS STORK: -- as I recall.
- MR. SHUTES: That's all I have.
- Thank you.
- 24 CO-HEARING OFFICER DODUC: Redirect,
- 25 Mr. Wright?

- 1 MR. WRIGHT: No redirect.
- 2 CO-HEARING OFFICER DODUC: At this time, would
- 3 you like -- Does that conclude your case in chief and,
- 4 if so, would you like to move your exhibits into the
- 5 record?
- 6 MR. WRIGHT: Yes. That concludes the case in
- 7 chief for Friends of the River and Sierra Club
- 8 California.
- 9 And I would like to move into the record the
- 10 testimony and Friends of the River Exhibits 1 through
- 11 111.
- 12 CO-HEARING OFFICER DODUC: Objections,
- 13 Miss Ansley?
- 14 MS. ANSLEY: Yes. Jolie-Anne Ansley for the
- 15 Department of Water Resources.
- 16 We have various objections to hearsay. I have
- 17 them in the list, so hopefully I can get them on the
- 18 record, understanding, of course, the Board's rules on
- 19 hearsay.
- 20 We join in the motion of the State Water
- 21 Contractors for the hearsay objection to
- 22 Miss Des Jardins' testimony, FOR-8, regarding the
- 23 interview with Bill Warne. That would be Page 2,
- 24 Line 24 to Page 4, Line 14.
- 25 For Mr. Stork, which is FOR-2, we have a

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1 series of objections and I will read the page and line
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- 2 numbers that specifically relate to representations
- 3 made in newspaper articles, specifically mainly quotes
- 4 of people.
- 5 They are Page 13 -- or, no -- Yes, Page 13,
- 6 Lines 9 through 15; and Footnote; 26, Page 15, Lines 2
- 7 through 9; and Footnote 32; Page 15, Lines 10 through
- 8 13; and Footnote 33; Page 16, Lines 19 through 17 --
- 9 oh, excuse me -- Page 16, Line 19 through Page 17,
- 10 Line 1; and Footnote 37; Page 17, Line 10; Footnote 39;
- 11 Page 17, Line 11 through Page 18, Line 1; and
- 12 Footnote 40; Page 20, Line 15 to Page 16 . . .
- 13 Excuse me. I don't have the end line number.
- 14 It would go -- It would be the sentence supported by
- 15 Footnote 52.
- 16 I realize I forgot one as well. It's Page 8,
- 17 Lines 14 -- hold on -- Lines 14 to 15; and Footnote 16.
- 18 I'm happy to discuss any of those references,
- 19 but I would like them just put on the record as a
- 20 timely hearsay objection.
- To Mr. Minton's testimony, which is FOR-6, I
- 22 have an objection to -- a hearsay objection to Page 6,
- 23 Lines 21 through 28, which is a vote of a -- of a
- 24 person in a News Deeply article.
- 25 I think that would conclude my hearsay

- 1 objections for this testimony.
- 2 CO-HEARING OFFICER DODUC: Thank you.
- 3 MS. ANSLEY: Thank you.
- 4 CO-HEARING OFFICER DODUC: Let me ask
- 5 Mr. Deeringer:
- 6 Do you wish Miss Ansley to send that list or
- 7 do you have it down?
- 8 MR. DEERINGER: The list would be helpful to
- 9 have in writing, if it's available.
- 10 CO-HEARING OFFICER DODUC: If you could just
- 11 send it to the service list.
- MS. ANSLEY: Okay.
- 13 MR. DEERINGER: Thank you.
- 14 CO-HEARING OFFICER DODUC: Just so everyone
- 15 knows:
- 16 Pursuant to our February 21st, 2017, ruling,
- 17 this is how we deal with hearsay, at least the hearsay
- 18 objection as to which Miss Ansley just noted.
- 19 Hearsay objections are noted for the record
- 20 and will be taken into consideration when reviewing the
- 21 evidence and making findings.
- 22 Before relying on any testimony to which a
- 23 timely hearsay objection has been made, we will
- 24 evaluate whether the testimony or exhibit contains
- 25 hearsay statements and whether an exception to the

- 1 hearsay rule applies.
- 2 Consistent with Government Code Section 11513,
- 3 we will not rely solely on hearsay evidence to support
- 4 a finding.
- 5 All right. With the noted hearsay objections,
- 6 your exhibits are hereby moved into the record,
- 7 Mr. Wright.
- 8 MR. WRIGHT: Yes.
- 9 (Friends of the River's Exhibits FOR-1
- 10 through FOR-111 received in evidence)
- 11 CO-HEARING OFFICER DODUC: Thank you.
- 12 Thank you, all witnesses.
- By the way, I have to say that you did a very
- 14 fine job in your direct testimony, concise, and you
- 15 spoke to us rather than just reading off a sentence --
- 16 I mean, reading off a paper, so that was one of the
- 17 best presented, I think, direct testimony we've heard.
- 18 MR. WRIGHT: Thank you very much.
- 19 CO-HEARING OFFICER DODUC: All right.
- 20 Mr. Colin (sic), hard act to follow.
- 21 Mr. Bailey, sorry. I keep wanting to call you
- 22 Mr. Colin.
- 23 Are you doing okay?
- THE REPORTER: (Nodding head.)
- 25 CO-HEARING OFFICER DODUC: We don't need to

1	break yet?
2	THE REPORTER: (Shaking head.)
3	CO-HEARING OFFICER DODUC: We can stand up and
4	stretch while the shift is being made.
5	With the exception of Dr. Shilling, who has
6	taken the oath previously, if the other witnesses could
7	please stand and raise your right hand.
8	
9	Andria Ventura,
10	Fraser Shilling
11	and
12	Sherri Norris,
13	called as witnesses by the Environmental
14	Justice Coalition for Water, having been duly
15	sworn, were examined and testified as follows:
16	CO-HEARING OFFICER DODUC: And are you sure
17	that your cellphone has been silenced?
18	WITNESS NORRIS: Yes.
19	CO-HEARING OFFICER DODUC: All right. Thank
20	you.
21	Be seated.
22	CO-HEARING OFFICER MARCUS: While his hand is
23	up.
24	WITNESS SHILLING: Do you swear?
25	(Laughter.)
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- 1 CO-HEARING OFFICER DODUC: I pick my moments.
- 2 Mr. Bailey, you had, I think, a Policy
- 3 Statement you wanted to give?
- 4 MR. BAILEY: Yes, I do.
- 5 And I thought I'd handle the preliminaries
- 6 that were mentioned only in brief early before as well
- 7 before we do that.
- 8 Colin Bailey on behalf of Environmental
- 9 Justice Coalition for Water, joined by Miss Osha
- 10 Meserve, also for EJCW.
- 11 Thanks for accommodating our panel earlier
- 12 last week.
- 13 As was mentioned earlier, I regret to inform
- 14 the Board that Mr. Heagerty is ill and facing down a
- 15 couple days worth of medical procedures.
- 16 That being the case, we mentioned earlier that
- 17 we would be withdrawing his testimony, and I think
- 18 that's what the proper procedure dictates at this
- 19 point. So I will go ahead and withdraw his -- his
- 20 testimony, which is EJCW-38.
- 21 All right. And then jumping into the Policy
- 22 Statement.
- 23 CO-HEARING OFFICER DODUC: Okay.
- MR. BAILEY: Actually, please remind me: How
- 25 much time do I have for that?

- 1 CO-HEARING OFFICER DODUC: Three minutes.
- 2 MR. BAILEY: Three minutes. Okay. I think
- 3 I'll be fairly short.
- 4 But here we go. Three minutes.
- 5 MR. BAILEY: So, Environmental Justice
- 6 Coalition for Water, EJCW, is a statewide non-profit
- 7 organization supporting a coalition of grassroots
- 8 environmental justice organizations.
- 9 It's our view that WaterFix as proposed
- 10 presents significant challenges and risks to
- 11 environmental justice and tribal communities now and
- 12 into the future.
- 13 Traditionally, in California, water policy and
- 14 major infrastructure decisions have been made without
- 15 the benefit of meaningful input from low-income
- 16 communities, communities of color, California indian
- 17 tribes, youths and other underrepresented communities.
- 18 In fact, it's EJCW's exper -- belief that exclusion
- 19 from these forums has, in fact, been the norm.
- 20 Happily, we have made some progress in that report --
- 21 in that regard.
- 22 The Central Valley Project and the battle over
- 23 resources flowing to and through it in the Delta are an
- 24 example of that.
- 25 EJCW actually formed in 1999 as a coalition of

- 1 urban farm worker, subsistence fishers and tribes all
- 2 concerned about the then CALFED process and its lack of
- 3 a voice for environmental justice in tribal
- 4 communities, who then fought for a place at the table.
- 5 Fast forward 18 -- some 19 years, I guess it is now,
- 6 and we are in a very similar posture.
- 7 I think we can claim some significant progress
- 8 in integrating environmental justice considerations
- 9 into -- and communities into policy-making processes,
- 10 not least of which are evidenced by this very Board.
- 11 Human right to water policy adopted by the
- 12 legislature in 2011 and, of course, the State Water
- 13 Board's efforts around human rights water resolution
- 14 adopted in 2016, and much, much more are prime examples
- 15 of that shift.
- 16 Nevertheless, WaterFix remains largely the
- 17 domain of large water agencies, many of which, in our
- 18 view, serve as proxies for for-profit and for -- and
- 19 private corporate entities.
- 20 Through EJCW's witnesses -- witness testimony,
- 21 I should say, and that of some of the other groups that
- 22 you've heard, from Restore the Delta, AquAlliance and
- 23 so forth, you've heard or will hear that WaterFix would
- 24 have deleterious impacts to low-income urban
- 25 ratepayers, who will pay more than is affordable at the

- 1 household level to support this very costly Project,
- 2 farming and farm worker communities, especially in the
- 3 Delta, which ranks among the poorest and
- 4 least-opportune regions of the state, those engaged in
- 5 fishing in and around the Delta for subsistence,
- 6 cultural and/or traditional religious purposes.
- 7 And, honestly, the WaterFix seems to be poised
- 8 to do very little or nothing to address lack of access
- 9 to safe, clean, affordable water for drinking and
- 10 sanitation per the human right to water policy for
- 11 communities that currently do not have reliable access.
- So, on the whole, EJCW asserts that the
- 13 WaterFix is contrary to public interest and public
- 14 trust, as you heard from last week's panel, and should
- 15 be denied.
- 16 Should it be approved, EJCW would seek
- 17 significant mitigation to ensure the economic, public
- 18 health and other impacts to EJ and tribal communities
- 19 will leave them no worse off than from WaterFix.
- 20 Today, EJCW's witnesses will speak to some of
- 21 those public interests that are implicated by the
- 22 WaterFix Project.
- 23 With that, I'm prepared to move on to our
- 24 panel.
- 25 CO-HEARING OFFICER DODUC: Thank you.

- 1 So I believe you need an hour for direct?
- 2 MR. BAILEY: Probably a little less.
- 3 CO-HEARING OFFICER DODUC: A little less?
- 4 All right. So we'll look and see about
- 5 3 o'clock, then.
- 6 MR. BAILEY: Yes, I think that's right.
- 7 DIRECT EXAMINATION BY
- 8 MR. BAILEY: All right. To begin,
- 9 Miss Ventura, could you please state your name -- Yeah.
- 10 Please state your name and spell it for the
- 11 record.
- 12 WITNESS VENTURA: My name is Andria Ventura.
- 13 That's A-N-D-R-I-A, V-as-in-Victor-E-N-T-U-R-A.
- MR. BAILEY: Thank you.
- 15 And have you examined Exhibit EJCW-22?
- 16 WITNESS VENTURA: I have.
- 17 MR. BAILEY: Is it a true and correct copy of
- 18 your prepared direct testimony?
- 19 WITNESS VENTURA: It is.
- 20 MR. BAILEY: Did you prepare it?
- 21 WITNESS VENTURA: I prepared it in conjunction
- 22 with yourself, Mr. Bailey.
- MR. BAILEY: Do you have any corrections to
- 24 make to your testimony?
- 25 WITNESS VENTURA: I do not.

- 1 MR. BAILEY: With that, would you please
- 2 summarize your testimony.
- 3 WITNESS VENTURA: And I am going to apologize
- 4 for reading a little bit, because -- Usually I try not
- 5 to, but I don't want to miss of my points here, so --
- 6 Though my point is very simple.
- 7 So, again, my name is Andrea Ventura. I am
- 8 the Toxics Programs Manager for Clean Water Action.
- 9 And central to our mission is that all people,
- 10 regardless of race, ethnic identity, economic position,
- 11 education, or any other social factor, they all have --
- 12 all people have the right to access to safe water and
- 13 to share equitably in the benefits of our waterways.
- 14 So I'm here today to state the obvious: That
- 15 it is incumbent upon the state to restore and maintain
- 16 the integrity of its waterways, including ensuring that
- 17 water quality assures that our waters are fishable and
- 18 swimmable, and eliminating pollutant discharges.
- 19 The primary point of my testimony is that the
- 20 Water Rights Change Petition will hinder plans
- 21 established to remediate and protect the Delta and
- 22 San Francisco Bay watersheds, particularly for complex
- 23 bioaccumulative contaminants, such as mercury, which
- 24 I've worked extensively on.
- You will hear about Dr. Shilling's research.

- 1 And that has indicated that there is a significant
- 2 potential of increased bioaccumulation of methyl
- 3 mercury in fish that would interfere with efforts to
- 4 reduce methyl mercury loadings in the Delta, as
- 5 proposed by a team deemed approved by this State Board,
- 6 as well as bioaccumulation in the fish.
- 7 And this in itself should be ample reason to
- 8 reject the Water Rights Change Petition, in my view.
- 9 However, the problem is exacerbated by what I believe
- 10 is the disproportionate burden that continued -- that
- 11 continued and potentially increased methyl mercury
- 12 loads place on tribes, low-income Californians, and
- 13 communities of color who practice subsistence fishing.
- 14 The reality is that the fishing and cultural
- 15 needs of tribes and other communities of color and
- 16 low-income communities have not traditionally been
- 17 protected.
- 18 As some of you know, I began working on TMDLs
- 19 for bioaccumulate contaminants in 2003, both in
- 20 San Francisco Bay watershed and the Delta.
- 21 And none of the numerous TMDLs that I have
- 22 been involved with since then have established fish
- 23 tissue targets that would protect anglers and their
- 24 children who consume fish sometimes every day,
- 25 certainly several times during the week.

1 Yet any short walk along popular fishing spots

- 2 in the Bay Area or participation in community meetings
- 3 of diverse populations in the Delta quickly
- 4 demonstrates that there are significant numbers of --
- 5 of people that are fishing and consuming high levels of
- 6 contaminated fish.
- 7 By not recognizing the needs and subsequent
- 8 practices of these disadvantaged communities, the
- 9 State's TMDL process unintentionally, but in reality,
- 10 did create a fundamental situation of environmental
- 11 injustice.
- 12 While current pollution prevention and
- 13 remediation plans will protect sports fishers, without
- 14 formal recognition of subsistence fishing and tribal
- 15 cultural issues, efforts to meet Clean Water Act
- 16 quality standards end up protecting the privileged few
- 17 and not those most dependent on the State's watersheds.
- 18 This was confirmed in a report that Clean
- 19 Water Action produced several years ago that was
- 20 informed by input from many different kinds of experts
- 21 that that was one of the major problems, that we
- 22 weren't looking at subsistence fishing or cultural
- 23 uses.
- 24 Because of that situation, I, over a decade,
- 25 have advocated that the State Water Resource Control

- 1 Board recognize subsistence fishing for non-tribal
- 2 communities as beneficial uses of California waters.
- 3 And we have also supported tribal efforts to protect
- 4 their community's health and cultural conditions.
- 5 And these efforts did come to fruition on
- 6 May 2nd, 2017, when the State Board did adopt
- 7 definitions for three new beneficial uses for
- 8 non-tribal subsistence fishing, tribal subsistence
- 9 fishing, and tribal cultural uses.
- 10 Now I'm focused on having -- making sure that
- 11 appropriate waterways that do support these beneficial
- 12 uses are so designated, starting with San Francisco
- 13 Bay, but we are also very interested in the Delta.
- 14 Why are they necessary? The example of
- 15 mercury is particularly pertinent. Mercury is
- 16 negatively impacting beneficial uses of many waters of
- 17 the State by making fish unsafe for human and wildlife
- 18 consumption.
- 19 Although mercury occurs naturally in the
- 20 environment, concentrations of mercury exceed
- 21 background levels because of human activities.
- We all know that gold and mercury mining
- 23 practices are a predominant source of legacy mercury
- 24 pollution -- not a surprise to anyone -- though there
- 25 are also contemporary sources.

1 In the context of the WaterFix, however, it is

- 2 important to note that the largest source of the highly
- 3 contaminated San Francisco Bay's mercury is the Central
- 4 Valley because the rivers carry the mercury from remote
- 5 regions through the Delta and into the bay.
- 6 I would say that it was particularly fitting
- 7 in the end that the State Board actually recognized
- 8 these beneficial uses in conjunction with its plan to
- 9 address mercury. Resolution 2017-0027 approved Part 2
- 10 of the Water Quality Control Plan for inland surface
- 11 waters, enclosed basin estuaries of California, tribal
- 12 and subsistence fishing beneficial uses and mercury
- 13 provisions.
- 14 In addition to defining the three new
- 15 beneficial uses, the State Water Board did approve one
- 16 new narrative and four new numeric mercury objectives
- 17 to apply to inland surface waters and closed-basin
- 18 estuaries, with the exception of water bodies or a --
- 19 water body segments with site-specific mercury
- 20 objectives.
- 21 These provisions obviously will be implemented
- 22 through NPDES Permits, water quality certifications,
- 23 waste discharge requirements, or waivers of WDRs.
- 24 This action provides a consistent and
- 25 regulatory approach throughout the state by sending

- 1 mercury limits to protect the beneficial uses
- 2 associated with the consumption of fish by both people
- 3 and wildlife, including our most vulnerable
- 4 communities.
- 5 The process that this Water Board implemented
- 6 to establish these beneficial uses and the mercury
- 7 provisions was a multiyear effort, included a
- 8 comprehensive stakeholder process that included
- 9 impacted communities, public interest advocates, as
- 10 well as the regulated community, and we feel that that
- 11 was incredibly important.
- 12 There were numerous hearings, staff reports
- 13 and other opportunities to provide that comment, as my
- 14 written testimony has indicated. I won't read through
- 15 all of that for you.
- 16 And given that the Board did establish these
- 17 beneficial uses as part of the public interest, it is
- 18 my opinion that you have used its authoritative
- 19 evidence.
- 20 And I would assert that decisions related to
- 21 the California WaterFix must take into account the
- 22 potential impacts of the Project on water quality and
- 23 contamination of fish that could exacerbate or create
- 24 new risks to subsistence fishing communities and tribal
- 25 cultural uses.

- I have reviewed Dr. Shilling's prepared
- 2 testimony, dated November 30th -- he will obviously
- 3 expand on that -- recounting the negative impacts from
- 4 the Delta Tunnels Project for fish health and those who
- 5 consume them.
- 6 And as such, based on that, I have concluded
- 7 that this Project does put subsistence fishers and
- 8 tribal communities at disproportionate risk from
- 9 exposure to mercury and other health-threatening
- 10 contaminants.
- 11 This is, in my view, contrary to the
- 12 aforementioned beneficial uses, the public interest and
- 13 the State Board's intent to equitably protect all
- 14 Californians. It would also further impede the future
- 15 designation of water bodies as supporting subsistence
- 16 fishing or cultural uses.
- We don't want to perpetuate such environmental
- 18 injustice, particularly for these anglers. We do see
- 19 that this Board has a commitment to environmental
- 20 justice in equity and, for that reason, we believe that
- 21 this -- that moving ahead with this Petition would not
- 22 be in the public interest.
- MR. BAILEY: Thank you, Miss Ventura.
- Dr. Shilling, you're already entered into the
- 25 record.

- 1 So have you examined EJCW Exhibit 2?
- 2 WITNESS SHILLING: Yes.
- 3 MR. BAILEY: Great.
- 4 Is it a true and correct copy of your prepared
- 5 direct testimony?
- 6 WITNESS SHILLING: Yes.
- 7 MR. BAILEY: Did you prepare it?
- 8 WITNESS SHILLING: Yes.
- 9 MR. BAILEY: Do you have any corrections to
- 10 make to your testimony?
- 11 WITNESS SHILLING: No.
- MR. BAILEY: That's it.
- Would you please summarize your testimony.
- 14 WITNESS SHILLING: Sure.
- 15 No PowerPoint this time and so excuse me for
- 16 reading, and I'll reference the exhibits as I go for
- 17 your benefit.
- 18 With my oral testimony, I'll provide evidence
- 19 about the potential and likely impacts of the Twin
- 20 Tunnels Project on procedural and material aspects of
- 21 environmental justice as it relates to California
- 22 Indian tribes and local communities and their use of
- 23 fish in the Delta Region.
- 24 The changes proposed in the Petition will
- 25 unreasonably affect fish, recreational and public trust

- 1 uses in the Delta Region through decreased tribal,
- 2 recreational angling, and subsistence beneficial uses
- 3 of fish. This is based on likely impacts on fish
- 4 availability and fish quality.
- 5 In terms of my expertise in this area, I
- 6 received my Ph.D. from the University of Southern
- 7 California in 1992 in aquatic ecology.
- 8 My research since beginning at the University
- 9 of California, Davis, in 1995 and especially since
- 10 joining the Department of Environmental Science and
- 11 Policy, has focused on the use of environmental
- 12 information in infrastructural and social conditions in
- 13 making better management and policy decisions.
- 14 In the last 15 years, I focused my research on
- 15 water quality and quantity conditions in waterways,
- 16 social use of fisheries in the Delta and throughout
- 17 California, and impacts of transportation
- 18 infrastructure on fish and wildlife.
- In that period, I've collaborated with
- 20 multiple local, State and Federal organizations. I
- 21 have published papers in the technical and
- 22 peer-reviewed literature about procedural environmental
- 23 justice, including as it relates to water decisions in
- 24 the Delta, as well as issues of fish contamination with
- 25 mercury, and consumption of these fish by people in the

- 1 Delta.
- 2 This is in more detail in my Statement of
- 3 Qualifications, EJCW-21.
- 4 In terms of procedural environmental justice,
- 5 as described in my written testimony, environmental
- 6 justice has been firmly vetted in State and Federal law
- 7 and agency policy for almost 20 years.
- 8 Despite these well-known principles and laws,
- 9 the Twin Tunnels Project proponents did not include
- 10 low-income communities and communities of color as
- 11 participants in the decision-making -- and I
- 12 differentiate that from participants in, maybe,
- 13 outreach and decision-making itself -- nor did they
- 14 address impacts to fishing and use of the Delta by
- 15 nearby low-income communities and communities of color.
- 16 The outreach was minimal and conducted over a decade
- 17 prior to finalization of the Project.
- 18 The only fish consumption study that was
- 19 cited, Silver, et al. 2007, EJCW-6, was not even
- 20 conducted on the Delta waterways. It was conducted in
- 21 a clinic in 2004.
- 22 In this way, the Project Proponents did not
- 23 follow the most basic guidelines of environmental
- 24 justice, recognition of who is impacted, describing and
- 25 mitigating for the inequities of the impacts, and

- 1 inclusion of impacted parties in decision-making
- 2 processes. And this is described in EJCW-3.
- 3 Just as the Project Proponents did not
- 4 adequately consult or include communities in
- 5 decision-making or impact analysis, they also did not
- 6 include tribes in the region, as described in EJCW-5.
- 7 The Proponents define tribal involvement as
- 8 being confined to meetings with tribes who may suffer
- 9 the significant and unavoidable impacts to
- 10 archeological sites and materials in EJCW-5.
- 11 Although these are important considerations,
- 12 they don't include the current and protected use --
- 13 uses of the Delta waterways as fishing and material
- 14 collection sites.
- During a State Water Board-sponsored project
- 16 that I led a few years ago, members of the Miwok tribe
- 17 in Sacramento and the Miwok tribe in Middleton and Elk
- 18 Grove both reported to me that they use Delta waterways
- 19 for fishing, described in EJCW-7.
- There's no evidence in the EIR that either
- 21 tribe or some other tribe was consulted about impacts
- 22 from Project construction and operation on their use of
- 23 waterways in the Delta and beyond for fishing and
- 24 material collection.
- 25 Traditional and contemporary tribal use of

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1 waterways as sites of ritual and culture and to sites
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- 2 of fishing are protected by the State Water Board's
- 3 beneficial use designations CUL and T-Sub.
- 4 This failure of Project Proponents is against
- 5 State and Federal guidelines regarding consultation
- 6 with tribes prior to and during development of Projects
- 7 that would or could cause them harm.
- 8 In terms of fish availability, as far as I
- 9 know, I have conducted the only regional studies of
- 10 fishing and fish consumption by communities and tribes
- 11 along Delta waterways and in their communities, which
- 12 is in EJCW-7 and 9.
- 13 And if we could bring up the EJCW-17.
- 14 (Exhibit displayed on screen.)
- 15 WITNESS SHILLING: This is the diagram that's
- 16 in my written testimony, which is EJCW-2 on Page 6.
- 17 So could we go to Page 6.
- 18 (Exhibit displayed on screen.)
- 19 WITNESS SHILLING: And I just want to
- 20 show . . .
- 21 If you could go down.
- 22 (Exhibit displayed on screen.)
- 23 WITNESS SHILLING: Down, down, down. There's
- 24 a map.
- 25 (Exhibit displayed on screen.)

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1 WITNESS SHILLING: Next page.
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- 2 (Exhibit displayed on screen.)
- 3 WITNESS SHILLING: Page 2? Sorry. On Page 2.
- 4 (Exhibit displayed on screen.)
- 5 WITNESS SHILLING: There we go. Okay.
- 6 So, where the arrow's pointing, it says
- 7 "Sacramento River." Upstream of that is the Project
- 8 location.
- 9 The darkness of those symbols indicates the
- 10 number of people that fish along that stretch of the
- 11 river. These were data collected by Department of Fish
- 12 & Game. At the time, it was called Department Fish &
- 13 Game.
- 14 This is also the area where I conducted a lot
- 15 of the field research upstream of, and including, and
- 16 downstream of the location of the Project, the intakes.
- 17 It is one of the most heavily fished areas in the
- 18 region and in the vicinity of Sacramento.
- 19 Thank you.
- These studies were publicly funded. They're
- 21 well known and freely available. Despite that, these
- 22 studies were not cited in the Project documents. The
- 23 only study cited was conducted prior to 2007 in a
- 24 clinic in Stockton, which is the EJCW-6. And though it
- 25 provided important information about the wide array of

- 1 ethnicities involved in fishing in the South Delta, it
- 2 was not the most recent, most comprehensive, or
- 3 inclusive of the sites that are directly affected by
- 4 the Project.
- 5 According to my studies, people from at least
- 6 a couple of dozen ethnicities are eating fish from
- 7 Delta waterways at the rate of one to two meals per
- 8 week, provide the fish as food to their families, and
- 9 are engaging in a culturally important activity and
- 10 value the source of protein.
- 11 This act of subsistence fishing and fish
- 12 consumption is covered by Beneficial Uses T-Sub and SUB
- 13 but there's no consideration in the EIR of potential
- 14 impacts to this protected activity.
- 15 Even before it was designated as a beneficial
- 16 use, the activity was occurring. So, prior to its
- 17 designation, the use itself has still been occurring
- 18 for a long time.
- 19 Others have or will describe the potential
- 20 impacts of Project operation on endangered fish
- 21 populations. However, there's no mention of the
- 22 impacts to communities and tribes of loss of
- 23 non-endangered edible fish populations, which is
- 24 especially true at low flows, where you have higher
- 25 temperatures.

- 1 In terms of fish contamination, not only is
- 2 the quantity of edible fish at stake but also the
- 3 quality.
- 4 In terms of potential for increased mercury in
- 5 fish tissue and harmful algal blooms, with increased
- 6 water temperature of both methyl mercury -- sorry --
- 7 mercury methylation and entry into the food chain, and
- 8 harmful -- harmful algal blooms become more likely.
- 9 For example, Dijkstra, et al. (2013), which is
- 10 EJCW-11, demonstrated that, in estuarian conditions,
- 11 increasing water temperatures from 19 degrees C to
- 12 22 degrees C -- Which is exactly the range that we're
- 13 looking at in the Project operation.
- 14 So with that 3-degree Celsius increase in
- 15 temperature, there was a tripling in fish tissue
- 16 mercury concentration. So a three-fold increase with
- 17 just a 3-degree change in temperature.
- 18 Mercury methylation is carried out microbial
- 19 processes, which respond quickly to change in water
- 20 temperatures, both in metabolic activity and population
- 21 size.
- The modeling of impacts to water temperature
- 23 by operating the Project are described within Project
- 24 documents as "not predictive models of actual
- 25 operations and resulting temperatures." EJCW-12.

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1 In addition, the models are run at monthly
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- 2 time steps, so they're averaging over months. And wide
- 3 swings in temperature, including high temperatures,
- 4 will not be reflected in the model's representation of
- 5 average conditions.
- 6 However, mercury methylation and
- 7 bioaccumulation and harmful algal brooms don't respond
- 8 gradually to changes in temperature. And that's
- 9 described in EJCW-10, -11 and -14.
- 10 Mercury methylation and accumulation will
- 11 accelerate as temperatures go up. But that newly
- 12 accumulated mercury won't go away as temperatures go
- 13 down. It will remain in the food chain and in fish
- 14 tissue as described in EJCW-15.
- The Project uses a standard for impacts for
- 16 beneficial use of aquatic life, disregarding the fish
- 17 consumption-related uses.
- In quotes, and this is from EJCW 13 (reading):
- "It should be noted that because
- 20 aquatic life beneficial uses are the only
- 21 uses expected to be affected by
- temperature changes under the various
- 23 alternatives, the water quality chapter
- 24 cross-references to Chapter 11, fish and
- 25 aquatic resources, for all impact

- 1 assessments for temperature."
- 2 In other words, temperature impacts on mercury
- 3 methylation and bioaccumulation in fish are not
- 4 considered to be beneficial use impacts.
- 5 In the FEIR, Project Proponents also find that
- 6 increases of 9 to 15 percent -- with unknown variation
- 7 around these values -- in fish tissue mercury
- 8 concentrations are possible in various Delta waterways
- 9 but these are considered to be small "increases" and
- 10 are "not expected to result in changes to beneficial
- 11 use." That's in EJCW-13.
- 12 Assuming the calculated increase is correct --
- 13 which I argue it is not -- a 10 percent increase in
- 14 mercury is not small for subsistence fishes or their
- 15 families.
- 16 For almost the entire scope of the issues of
- 17 fish contamination, the Project Proponents are
- 18 disconnected from reality. The FEIR lists Largemouth
- 19 Bass as the basis for the modeling and impact analysis.
- 20 However, Largemouth Bass is not only just one of over a
- 21 dozen fish caught and consumed in the Delta waterways,
- 22 including the Sacramento River, but is not the
- 23 preferred fish for any single ethnicity that's been
- 24 interviewed by me or the study EJCW-6. So that's
- 25 EJCW-6 and 9.

1 The Project Proponents ignore both the science

- 2 of fish use and contamination in the Delta waterways
- 3 and the importance of increases in mercury in fish.
- 4 Their analysis appears based on an outmoded
- 5 idea of white anglers in boats recreationally catching
- 6 Bass and the uses of average temperatures for a process
- 7 that is exacerbated by short-term spikes in
- 8 temperature, not gradually affected by monthly changes.
- 9 In 2016, there were 144,775 annual and
- 10 lifetime fishing licenses sold in counties containing
- 11 the Delta and Lower Sacramento River. There were
- 12 another 35,000 sold as daily licenses.
- In a study I carried out for the Regional
- 14 Board 5 in 2009, I estimated that about 10 percent of
- 15 anglers and their families were consuming fish at 10
- 16 times or greater the maximum recommended safe amount of
- 17 fish caught in the Delta. That's in EJCW-17.
- 18 The importance of that 10-fold greater is that
- 19 that is the level at which mercury is known to cause
- 20 neurological and other harm. So the number of people
- 21 potentially impacted by changes in fish quality is
- 22 large.
- 23 Tribes and communities currently using the
- 24 Delta and tributaries in subsistence and traditional
- 25 ways would be adversely affected by operation of the

- 1 twin tunnels. This harm will occur through lack of
- 2 tribal and impacted community participation in the
- 3 decision-making process, perceived and actual changes
- 4 in fish availability, and perceived and actual changes
- 5 in fish quality. Beneficial uses SUB, T-Sub, and CUL
- 6 would be negatively impacted by the preferred
- 7 alternative.
- 8 In many ways, tribes and communities in the
- 9 Delta are being sacrificed for water users and uses
- 10 elsewhere.
- 11 For all of the reasons I've cited, in my
- 12 professional opinion, the Twin Tunnels Project would
- 13 result in long-term and potentially irrevocable harm to
- 14 regional communities and tribes through impacts to
- 15 environmental justice and consultation processes,
- 16 traditional and subsistence use of fish, and fish
- 17 contamination.
- 18 That concludes my testimony.
- 19 CO-HEARING OFFICER DODUC: Before we begin.
- 20 Miss Norris, do you need to go check on
- 21 somebody?
- 22 WITNESS NORRIS: She was going to use the
- 23 restroom. I think she should be okay. Thank you for
- 24 asking.
- 25 CO-HEARING OFFICER DODUC: All right.

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1 WITNESS NORRIS: I've taken her there twice.
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- 2 MR. BAILEY: It takes a village.
- 3 (Laughter.)
- 4 MR. BAILEY: Actually, before we proceed,
- 5 Miss Norris, I have a couple followup.
- 6 Since Figure 1 is already up there, that
- 7 actually facilitates one question I wanted to ask
- 8 Dr. Shilling to drill down on.
- 9 I'm familiar with your graph. It wasn't as
- 10 clear to me looking at it now what some of the
- 11 numerical -- what some of the numbers were
- 12 corresponding with some of those shades.
- 13 And I was wondering if you could do two
- 14 things: First would be to identify on there, maybe
- 15 with the aid of the cursor -- I don't know -- to
- 16 identify where the intakes are approximately?
- 17 WITNESS SHILLING: Okay.
- 18 MR. BAILEY: And then I have a followup
- 19 question about the . . .
- 20 WITNESS SHILLING: Okay. So the light color,
- 21 which is the light gray, is 1 to 75 people per river
- 22 mile, and so you can see that legend in the top left.
- 23 The darkest is over a thousand people per river mile.
- 24 And so Department of Fish & Game would survey
- 25 a mile of river, then go down and survey the next mile

- 1 of river, and estimate the number of people total that
- 2 were fishing on different stretches of the river. And
- 3 they will do this every year, this survey.
- 4 And then the location of the Project.
- 5 Upstream of where it says "Sacramento River,"
- 6 there's a long straightaway, and then there's a sudden
- 7 bend, and that's Scribner Bend.
- 8 And Clarksburg's boat ramp is just downstream
- 9 of that; Clarksburg and Hood are just downstream of
- 10 that. So that's immediately adjacent to the intakes
- 11 just upstream.
- 12 So the fishing activity below and above the
- 13 proposed intake areas are among the highest in the
- 14 Sacramento Region.
- MR. BAILEY: Great. Thank you.
- And then do you have, even if rough, an
- 17 estimate for the total numbers involved in the . . .
- 18 WITNESS SHILLING: No.
- MR. BAILEY: Above and below the --
- 20 WITNESS SHILLING: No, not really. Because we
- 21 don't know if those people who were surveyed one day
- 22 may have gone to another -- They do have some control
- 23 of how they do the estimates for that duplication.
- 24 But the number of licenses is the best way to
- 25 estimate the number of people who are fishing. Because

1 most people who get the license in the Sacramento

- 2 region fish in Sacramento waterways.
- 3 MR. BAILEY: Thank you.
- 4 All right. Miss Norris, everything is okay?
- 5 WITNESS NORRIS: Yeah. Thank you.
- 6 Thank you. Yes, everything's okay. Thank you
- 7 everyone.
- 8 MR. BAILEY: Would you please state your name
- 9 and spell it for the record.
- 10 WITNESS NORRIS: Sherri Norris, S-H-E-R-R-I,
- 11 Norris N-O-R-R-I-S.
- MR. BAILEY: And have you examined EJCW-33
- 13 titled "Errata"?
- 14 WITNESS NORRIS: Yes, I have.
- 15 MR. BAILEY: It probably should have been
- 16 titled as revised but nevertheless.
- 17 Is it a true and correct copy of your prepared
- 18 direct testimony?
- 19 WITNESS NORRIS: It is.
- 20 MR. BAILEY: And did you prepare it?
- 21 WITNESS NORRIS: Yes, I did.
- MR. BAILEY: Do you have any corrections to
- 23 make to your testimony?
- 24 WITNESS NORRIS: I do.
- MR. BAILEY: Could we kindly bring that up so

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1 as to direct the attention to those who need to see it.
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- 2 Again, that's EJCW-33-Errata.
- 3 (Exhibit displayed on screen.)
- 4 MR. BAILEY: Got it.
- 5 WITNESS NORRIS: And the first one is on
- 6 Page 11.
- 7 (Exhibit displayed on screen.)
- 8 WITNESS NORRIS: Revised date thirty -- or,
- 9 sorry, Number 33.
- 10 (Exhibit displayed on screen.)
- 11 WITNESS NORRIS: There we go.
- 12 Okay. So -- Oops. I moved this.
- 13 So the sentence begins with "however," and the
- 14 part that I'd like to strike is, it says, "9,000 cubic
- 15 feet per second," and, then, right after that, it says,
- 16 "or 15."
- 17 And, thank you, Google for changing my
- 18 document for me.
- 19 It has "mission acre-feet." But you can just
- 20 strike "or 15 mission acre-feet" in its entirety. I
- 21 would just have -- I'd just strike that, too, it said
- 22 million or not. So from the word "or" through to the
- 23 word "feet." And then leave the words "of water" and
- 24 then the word "annually" would also be stricken.
- 25 That's it for that page.

1 And there's one more, and it's on Page 12, and

- 2 that begins with Revised Number 36.
- 3 (Exhibit displayed on screen.)
- 4 WITNESS NORRIS: And we are looking at -- The
- 5 last three words say, "since the Delta." So those
- 6 three words would be stricken.
- 7 And it carries over to the next page all the
- 8 way to the -- "DSC" would also be stricken, through to
- 9 the comma, and that's it.
- 10 MR. BAILEY: Thank you very much.
- 11 WITNESS NORRIS: Thank you.
- MR. BAILEY: Would you please summarize your
- 13 testimony.
- 14 WITNESS NORRIS: Okay. So, my testimony
- 15 begins with an understanding of the -- the -- the Water
- 16 Rights Change Petition's relationship of the public
- 17 trust doctrine and the connectivity to California
- 18 tribes in the upper watersheds of the Sacramento River
- 19 from which water's diverted, and then through to the
- 20 California tribes receiving waters in the San Francisco
- 21 Bay.
- I proceed to describe how the WaterFix Project
- 23 resulting FEIR was prepared and approved without the
- 24 proper process to gather relevant information from all
- 25 of the tribes in California who would be affected.

- 1 And that the result is -- of the WaterFix
- 2 diversions would substantially and irreparably harm the
- 3 aquatic ecosystem of the Sacramento River, the upstream
- 4 watersheds from which water's diverted, and from those
- 5 in the receiving waters in the San Francisco Bay.
- 6 This environmental degradation will result in
- 7 irreparable harm to the ability of Northern California
- 8 tribes to practice their subsistence fishing and
- 9 cultural beneficial uses and will prohibit cultural and
- 10 spiritual continuance of the people -- their peoples,
- 11 and prohibit California tribes from restoring and
- 12 maintaining critical habitat for food -- traditional
- 13 foods, including aquatic foods, and those that rely on
- 14 the water in the north -- in Northern California, and
- 15 for cultural resources.
- 16 The tribes in Northern California are, again,
- 17 place-based cultures and can't move these somewhere
- 18 else. So it's extremely important that those tribes
- 19 outside of the footprint area of this Project, that
- 20 their information would have been included.
- 21 So, to -- to go into it a little more.
- 22 Public trust. The FEIR states that there's
- 23 unavoidable risk that was identified and that any
- 24 mitigation would not be sufficient to render that
- 25 impact less than significant.

1 And this assumes that there would be no other

- 2 options possible other than what is in the WaterFix
- 3 Option 4A.
- 4 And I -- From my conversations that I've had
- 5 with the tribes in Northern California, and from my
- 6 experience and from my -- my perspective, that the
- 7 process of engagement with all California tribes who
- 8 will be affected, we are missing that information to
- 9 advise this Water Change Petition, in particular from
- 10 tribes in upstream source and downstream receiving
- 11 waters.
- 12 The Department of Water Resources and Bureau
- 13 of Reclamation chose to amend their outreach to tribes
- 14 in a critical time in the development of the WaterFix
- 15 plan and the subsequent public review of the FEIR.
- 16 The result meant that the body of information
- 17 that we have is incomplete and that a plan does not
- 18 adequately support or benefit the public, including
- 19 tribes and tribal members who rely on these waters for
- 20 food, subsistence, fishing, and cultural ways of life.
- 21 The existing and proposed interbasin transfers
- 22 that -- where the water would be coming from to enter
- 23 into the Sacramento River system were not considered
- 24 and, therefore, those communities aren't -- have not --
- 25 their public interests have not been protected or

- 1 considered.
- 2 Let's see. The last piece that's connected to
- 3 that, from my testimony -- and I won't read the whole
- 4 thing; it's obviously there -- but that the recent
- 5 adoption of the Department of Water Re -- Water Board
- 6 for statewide and tribal subsistence fishing and tribal
- 7 cultural beneficial uses should be considered.
- 8 But at the time that the WaterFix was first
- 9 being looked at as the option, without even that
- 10 adoption of that beneficial use in place, the north
- 11 coast had subsistence fishing and cultural benefits use
- 12 definitions there. And, so, regardless of the timing,
- 13 that information should have been brought forward a
- 14 long time ago.
- That's brief. I can go into more detail if
- 16 people would like, but . . .
- MR. BAILEY: We are ahead of schedule.
- 18 That concludes our direct examination.
- 19 Oh -- I'm sorry -- there was one other thing,
- 20 just persnickety.
- 21 Dr. Shilling, could you -- I forgot that your
- 22 Statement of Qualifications was actually separate from
- 23 your testimony. So for purposes of entry into the
- 24 record -- into evidence, rather, did you examine
- 25 EJCW-21?

- 1 WITNESS SHILLING: Yes.
- 2 MR. BAILEY: And is it a true and correct copy
- 3 of your qualifications?
- 4 WITNESS SHILLING: Yes.
- 5 MR. BAILEY: Great. Thank you.
- 6 That concludes our direct.
- 7 CO-HEARING OFFICER DODUC: All right. Thank
- 8 you.
- 9 Why don't we take a short break since we're
- 10 we've been at this for over an hour.
- 11 We will return at -- Oh, okay. We'll make it
- 12 3 o'clock.
- 13 Is that too much time? 2:55. 2:55.
- 14 (Recess taken at 2:43 p.m.)
- 15 (Proceedings resumed at 2:55 p.m.:)
- 16 CO-HEARING OFFICER DODUC: All right. It is
- 17 2:55. We're back in session.
- 18 And turning down to DWR. I think you said 20
- 19 minutes?
- 20 MS. ANSLEY: Yes. I'm going to try and hold
- 21 it to that.
- 22 CO-HEARING OFFICER DODUC: Okay. So around
- 23 3:15.
- MS. ANSLEY: I have a -- I have only a couple
- 25 questions for Miss Norris and for Miss Ventura

1 regarding just the general basis for their opinion and

- 2 their qualifications.
- 3 And then the bulk of my questions are for
- 4 Dr. Shilling, and I will not stray off his testimony so
- 5 we will be talking with his conclusions regarding
- 6 methyl mercurization, and fishing access, and impacts
- 7 of the California WaterFix as alleged in his direct
- 8 testimony.
- 9 CO-HEARING OFFICER DODUC: Thank you.
- 10 CROSS-EXAMINATION BY
- 11 MS. ANSLEY: So, Miss Norris, I can start with
- 12 you.
- 13 Miss Norris, have you ever testified as an
- 14 expert in the State Court?
- 15 WITNESS NORRIS: Not in State Court, no, I
- 16 have not.
- 17 MS. ANSLEY: How about in Federal Court?
- 18 WITNESS NORRIS: No.
- 19 MS. ANSLEY: Do you have a degree in biology?
- 20 WITNESS NORRIS: No. I didn't say that I did,
- 21 though.
- MS. ANSLEY: I'm sorry? I missed that.
- 23 WITNESS NORRIS: I did not say that I did,
- 24 though, but, no, I do not.
- MS. ANSLEY: How about hydrology? Do you have

- 1 any formal training in hydrology?
- 2 WITNESS NORRIS: No.
- 3 MS. ANSLEY: On Paragraph 11 -- Page 11,
- 4 Paragraph 31 of your testimony, EJCW-33-Errata.
- 5 (Exhibit displayed on screen.)
- 6 MS. ANSLEY: You state that the California
- 7 WaterFix will not protect -- Oh, Paragraph 31. I'm
- 8 sorry.
- 9 (Exhibit displayed on screen.)
- 10 WITNESS NORRIS: The short one? Yeah.
- 11 MS. ANSLEY: You state that the California
- 12 WaterFix will not protect endangered -- endangered fish
- 13 and wildlife.
- 14 That could be Paragraph 32. If it is, it's
- 15 my -- my mistake.
- 16 WITNESS NORRIS: 31 and 32, they're -- one
- 17 leads into the other.
- 18 MS. ANSLEY: Okay. Do you see that testimony
- 19 generally?
- 20 WITNESS NORRIS: 31 and 32? Yes, I see that.
- 21 MS. ANSLEY: Have you reviewed the Biological
- 22 Opinions for the California WaterFix?
- 23 WITNESS NORRIS: I have.
- MS. ANSLEY: And it's your understanding that
- 25 these Biological Opinions were issued with a no

- 1 jeopardy finding?
- 2 WITNESS NORRIS: No. The -- The -- My
- 3 testimony has to do with the fact that tribes up --
- 4 be -- outside of the footprint area have not been --
- 5 have not had a chance to look at the FEIR. Therefore,
- 6 the information that would be in your finding would be
- 7 lacking of that information from tribes up -- up and
- 8 down the watershed.
- 9 So, in my understanding, that is that the
- 10 information in your report does not include what we
- 11 know to be true as far as this -- the -- what . . .
- 12 what needs to happen downstream in order for those
- 13 waters to be safe, and what needs to happen upstream.
- 14 So if you're looking at the -- only the
- 15 footprint area information, and you're not including
- 16 what the tribes know -- When I work with tribes, we
- 17 have -- The tribes we work with have Environmental
- 18 Directors that are skilled in watershed management and
- 19 they did not have any opportunity to provide their
- 20 information.
- 21 And when I talked to them about this
- 22 information, they look at it and immediately were
- 23 saying, "There is so much missing in here. This is not
- 24 accurate."
- 25 So I guess I've seen your information but it

- 1 is not, according to what I know, true.
- 2 CO-HEARING OFFICER DODUC: I'm sorry.
- 3 I'm going to have to ask Mr. Stark to take his
- 4 conversation outside.
- 5 WITNESS NORRIS: Sorry. Was that not clear?
- 6 I'm sorry.
- 7 MS. ANSLEY: Yes.
- 8 WITNESS NORRIS: And I guess I should have --
- 9 I was -- It was brought to my attention a moment ago
- 10 that -- that I did not introduce myself properly.
- 11 So my -- myself, I -- I have been working with
- 12 tribes to 2001 on information on fish consumption and
- 13 what -- where -- and mercury, so some of the earliest
- 14 studies that are out there with mercury in the human
- 15 body was information that at the time I started, was
- 16 just new.
- 17 Since that time, we work with tribes from
- 18 South San Francisco all the way up to the northern
- 19 border and all the way across. And so there's about,
- 20 we figured out, 54 tribes that we work for. So I work
- 21 for the California Indian Environmental Alliance and
- 22 primarily with their Environmental Directors.
- MS. ANSLEY: Okay.
- 24 WITNESS NORRIS: I don't know if that helps,
- 25 just background.

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1 MS. ANSLEY: Well, yes, I understand that.
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- 2 And I -- I don't mean to be disrespectful but
- 3 I only have a limited number of time to cross.
- 4 If you feel like there's additional
- 5 information that you need to provide to your direct
- 6 testimony, your attorney can --
- 7 WITNESS NORRIS: Okay.
- 8 MS. ANSLEY: -- ask you again on --
- 9 But, of course, if --
- 10 WITNESS NORRIS: That's fine.
- 11 MS. ANSLEY: -- you need a full answer, I'm
- 12 not trying to cut you off, either.
- 13 WITNESS NORRIS: No, that's fine.
- MS. ANSLEY: So the basis for your testimony
- 15 in paragraph 32 -- and I apologize because I think I do
- 16 not have the errata version. The basis is your review
- 17 of the FEIR and information that you feel is missing
- 18 from the FEIR; is that correct?
- 19 WITNESS NORRIS: I'm looking it over just to
- 20 make sure, but yes.
- 21 MS. ANSLEY: Okay. What -- The nature of my
- 22 question went to whether you were discussing any
- 23 particular evidence that was -- that was included in
- 24 the FEIR regarding impacts, but it sounds like that
- 25 what you're saying is that information that you allege

- 1 is not included in the FEIR.
- 2 WITNESS NORRIS: It's not included in the
- 3 FEIR, but also -- Also, I would state that in the
- 4 second portion of that paragraph, that there's not
- 5 information in the FEIR that is clear how this is the
- 6 Endangered Species Act and Federal Endangered Species
- 7 Act, how those species that are most concerned, of the
- 8 tribes that I work with, would be protected.
- 9 They were not -- All of those species that are
- 10 traditional species of fish were not included in those.
- 11 So there's a lot of attention paid on specific species,
- 12 like Largemouth Bass or Salmon and the times of year
- 13 that Salmon are running those rivers, but there's not
- 14 information about a multitude of species that are of
- 15 concern for tribes.
- MS. ANSLEY: By "endangered," are you
- 17 referring to the Endangered Species Act?
- 18 WITNESS NORRIS: Some of them are from the
- 19 Endangered Species Act, some of which are California.
- 20 For example, there's -- there's fish that are
- 21 looking into Federal Endangered Species Act, like, for
- 22 example, the -- We are seeing out there that there's
- 23 not the Lamprey, and we're seeing decreases in number
- 24 of Sturgeon that we're seeing, and we're -- So there's
- 25 some of it is what I see and some of it is what are

1 fish that are on the Endangered Species Act or that may

- 2 be soon. For example, in the Hitch species --
- 3 MS. ANSLEY: So --
- 4 WITNESS NORRIS: -- that are -- that have
- 5 recently been put on to California.
- 6 MS. ANSLEY: What I'm just trying to determine
- 7 is what you meant by "endangered."
- 8 So my understanding from your answer just now
- 9 is what you meant by "endangered" here isn't
- 10 necessarily limited to the Endangered Species Act.
- 11 WITNESS NORRIS: It's not limited to it. It
- 12 is inclusive of it. And in addition to other species
- 13 that tribes are concerned about that have not been
- 14 studied hardly at all that we're seeing declines in.
- MS. ANSLEY: Miss Ventura, have you testified
- 16 as an expert in State Court?
- 17 WITNESS VENTURA: No.
- 18 CO-HEARING OFFICER DODUC: Have you testified
- 19 as an expert in Federal Court?
- 20 WITNESS VENTURA: No, I have not.
- 21 MS. ANSLEY: Looking at your testimony, which
- 22 I believe is EJCW-22 --
- 23 WITNESS VENTURA: Um-hmm.
- MS. ANSLEY: -- is that correct?
- 25 WITNESS VENTURA: Yes.

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1 MS. ANSLEY: Is the basis for your testimony
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- 2 regarding impacts on -- due to the California WaterFix
- 3 based on Dr. Shilling's testimony?
- 4 WITNESS VENTURA: Largely upon that. I have
- 5 looked at that.
- 6 The point that I am trying to put forward is
- 7 that protecting subsistence fishing, as well as tribal
- 8 cultural uses, is in the public interest. And if
- 9 Dr. Shilling's data is correct, and there is this
- 10 potential, that would be a reason to not move ahead.
- MS. ANSLEY: Okay. But, just to make sure
- 12 that I have a clear answer --
- 13 WITNESS VENTURA: Yes.
- 14 MS. ANSLEY: -- to my question, you are
- 15 relying on Dr. Shilling --
- 16 WITNESS VENTURA: Yes, I am.
- 17 MS. ANSLEY: -- for potential impacts.
- 18 WITNESS VENTURA: Yes.
- 19 MS. ANSLEY: Thank you.
- 20 And then the remainder of my questions are for
- 21 Dr. Shilling.
- Dr. Shilling, have you ever testified as an
- 23 expert in State Court?
- 24 WITNESS SHILLING: Yes.
- 25 MS. ANSLEY: In what matters were you

- 1 qualified as an expert?
- 2 WITNESS SHILLING: In that case, it was in
- 3 San Mateo, and it was in relation -- I was testifying
- 4 for the State in a wildlife/vehicle collision case
- 5 where the state was proposed to have liability for
- 6 injury.
- 7 MS. ANSLEY: Did you say wildlife/vehicle
- 8 collision?
- 9 WITNESS SHILLING: Wildlife/vehicle collision.
- 10 MS. ANSLEY: And do you remember the name of
- 11 that case?
- 12 Or one of the parties?
- 13 WITNESS SHILLING: I can pull it up right now.
- 14 MS. ANSLEY: Oh.
- 15 WITNESS SHILLING: Case number?
- MS. ANSLEY: If you'd like, that's fine.
- 17 WITNESS SHILLING: It's CIV 505048.
- MS. ANSLEY: And were there any other matters
- 19 in which you were qualified as an expert in State
- 20 Court?
- 21 WITNESS SHILLING: I was a witness for
- 22 Caltrans in another case that didn't go to trial, and
- 23 I'm not sure if that qualifies since I didn't -- wasn't
- 24 deposed or on the stand, but I was a witness.
- MS. ANSLEY: Back to your testimony in

1 San Mateo court, the case -- the number that you just

- 2 read to me, CIV 505048.
- 3 WITNESS SHILLING: Yes.
- 4 MS. ANSLEY: What was the nature of your
- 5 testimony?
- 6 WITNESS SHILLING: I was and am an expert on
- 7 wildlife/vehicle collision in California. And I was
- 8 talking about the . . . hotspots of wildlife/vehicle
- 9 collisions and whether or not the incident that
- 10 occurred was related to statistically significant
- 11 hotspots in that particular type of incident. So it
- 12 was a statistical analysis in that area.
- 13 MS. ANSLEY: How about Federal Court? Have
- 14 you testified in Federal Court?
- 15 WITNESS SHILLING: No.
- 16 MS. ANSLEY: Looking now to your testimony,
- 17 which is EJCW-2.
- 18 Have you performed any independent analysis or
- 19 modeling in order to arrive at the conclusions you
- 20 present in your testimony?
- 21 WITNESS SHILLING: Do you mean independent of
- 22 the papers that are cited, the studies of mine?
- MS. ANSLEY: Well, yeah. Let me be more
- 24 specific.
- 25 WITNESS SHILLING: Okay.

- 1 MS. ANSLEY: So have you performed any
- 2 independent analysis of modeling of rates of methyl
- 3 mercury -- mercurization under the proposed Cal
- 4 WaterFix?
- 5 WITNESS SHILLING: No.
- 6 MS. ANSLEY: How about any specific studies
- 7 regarding impacts on fishing access for the California
- 8 WaterFix?
- 9 WITNESS SHILLING: The word "independent" is
- 10 throwing me off.
- Do you mean did I compare where people are
- 12 fishing based on my field work with where the
- 13 construction activities are?
- 14 MS. ANSLEY: I don't. I think I'm looking
- 15 for:
- 16 Did you conduct any additional field analysis
- 17 or modeling analysis in relation to your testimony here
- 18 today on the impacts of the California WaterFix?
- 19 WITNESS SHILLING: Not in addition to the
- 20 studies I've already conducted.
- 21 MS. ANSLEY: I understand.
- 22 Your testimony discusses the recently
- 23 promulgated beneficial uses: Cultural CUL, T-Sub which
- 24 I believe is tribal subsistence, and subsistence which
- 25 is SUB --

- 1 WITNESS SHILLING: Um-hmm.
- 2 MS. ANSLEY: -- is that correct?
- 3 WITNESS SHILLING: Yes.
- 4 MS. ANSLEY: And these were promulgated by the
- 5 Water Board via resolution in May 2017; is that
- 6 correct?
- 7 WITNESS SHILLING: Yes.
- 8 MS. ANSLEY: Isn't it true that these
- 9 designations have been not utilized for the Delta as of
- 10 today?
- 11 WITNESS SHILLING: As far as I know, they have
- 12 not been.
- 13 MS. ANSLEY: Oh, okay. I'm sorry. I thought
- 14 you were going on.
- 15 WITNESS SHILLING: I can.
- 16 MS. ANSLEY: How about the Sacramento River in
- 17 the vicinity of the proposed intakes?
- 18 WITNESS SHILLING: No. Those uses are not
- 19 designated. They occur, but they're not designated.
- 20 MS. ANSLEY: Okay. On Page 4 of your
- 21 testimony -- And please stop me if you need to refer to
- 22 your testimony more broadly.
- 23 (Exhibit displayed on screen.)
- MS. ANSLEY: Do you have a copy of it in front
- 25 of you?

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1 WITNESS SHILLING: I have a hard copy but we
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- 2 can go on the screen --
- 3 MS. ANSLEY: Sure.
- 4 WITNESS SHILLING: -- to help everybody.
- 5 MS. ANSLEY: Sure. This is EJCW-2. Was it
- 6 two? Yeah. Two.
- 7 So looking at Page 4, starting at Line --
- 8 around Line 21 --
- 9 (Exhibit displayed on screen.)
- 10 MS. ANSLEY: -- and then carrying over to
- 11 Page 5, you -- you discuss the Section 404 application
- 12 to the Army Corps of Engineers for the California
- 13 WaterFix; is that correct?
- 14 WITNESS SHILLING: That's correct.
- MS. ANSLEY: And this was an application made
- 16 in 2015; is that correct?
- 17 WITNESS SHILLING: I'm not positive the date
- 18 of the application.
- 19 MS. ANSLEY: Is it your understanding that
- 20 that process before the Army Corps of Engineers is a
- 21 separate process from the proceeding before this Water
- 22 Board?
- 23 WITNESS SHILLING: My understanding is that
- 24 that application for the Army Corps is necessary for
- 25 the Project to go forward.

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1 MS. ANSLEY: It is your understanding that
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- 2 permit issuance by the Army Corps of Engineers is
- 3 necessary -- a Section 404 Permit is necessary for the
- 4 California WaterFix to go forward.
- Is that your answer?
- 6 WITNESS SHILLING: Yeah.
- 7 MS. ANSLEY: Okay. But that is not a decis --
- 8 The issuance of the 404 Permit is not a decision to be
- 9 made by this Water Board.
- 10 Do you understand that?
- 11 WITNESS SHILLING: Yes.
- MS. ANSLEY: Okay. Looking at Page 6 of your
- 13 testimony, starting to -- the section on Impacts to
- 14 Edible Fish Availability.
- 15 (Exhibit displayed on screen.)
- MS. ANSLEY: So Page 6, Line 1 through Page 7,
- 17 Line 5.
- 18 You discuss the Clarksburg boat ramp.
- 19 WITNESS SHILLING: Yes.
- 20 MS. ANSLEY: Isn't it true that the Clarksburg
- 21 boat ramp will remain in place during construction of
- 22 the California WaterFix as well as following the
- 23 completion of the construction?
- 24 WITNESS SHILLING: I don't know, but that
- 25 sounds like a good idea.

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1 MS. ANSLEY: Is it your understanding that the
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- 2 California WaterFix has committed to a measure to
- 3 enhance fishing access in cooperation with the County
- 4 of Yolo and the Sacramento Department of Parks and
- 5 Recreation? I hope I have that right.
- 6 WITNESS SHILLING: I didn't really direct
- 7 access. I addressed the availability of fish, which I
- 8 think will go down regardless of access.
- 9 MS. ANSLEY: On Page 7, Line 4, I thought that
- 10 your testimony was saying that the intake will remove
- 11 an important site of subsistence --
- 12 WITNESS SHILLING: Oh, yeah.
- MS. ANSLEY: -- is that --
- 14 WITNESS SHILLING: The area is important.
- 15 But the -- I guess the point is lost that the
- 16 if there's a decline of fish in that area, then people
- 17 who are accessing that part of the river will not get
- 18 fish and that's the primary -- one of the primary
- 19 locations for fishing in the region.
- 20 So it wasn't the access itself that was
- 21 important. It was fishing in the region of the intakes
- 22 that was important.
- MS. ANSLEY: Okay. Can we look at, then,
- 24 Page 7 still.
- 25 You -- In Lines 16 through 20 on Page 7 --

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1 (Exhibit displayed on screen.)
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- 2 MS. ANSLEY: -- you cite a study regarding
- 3 estuarine conditions increasing water temperatures from
- 4 19C to 22C resulting in a tripling in fish tissue
- 5 mercury concentration; is that correct?
- 6 WITNESS SHILLING: That's correct.
- 7 MS. ANSLEY: And that study is -- The basis of
- 8 that conclusion is this study by . . .
- 9 WITNESS SHILLING: Dijkstra.
- 10 MS. ANSLEY: Dijkstra (2013).
- 11 WITNESS SHILLING: Yes.
- 12 MS. ANSLEY: That study was done in Maine on
- 13 the Little River estuary; is that correct?
- 14 WITNESS SHILLING: That's correct.
- 15 MS. ANSLEY: And it was conducted in six salt
- 16 marsh pools; is that correct?
- 17 WITNESS SHILLING: "Estuarine" meaning
- 18 brackish water --
- 19 MS. ANSLEY: Is it your understanding --
- 20 WITNESS SHILLING: -- pools, yes.
- 21 MS. ANSLEY: Oh, I'm sorry. Did you finish
- 22 your answer?
- 23 WITNESS SHILLING: Yeah.
- MS. McCUE: To make sure I'm clear, is it your
- 25 understanding that the sampling in the field study, a

1 component of that, this is reporting occurred in six

- 2 salt marsh pools?
- 3 WITNESS SHILLING: Yes, but that doesn't mean
- 4 the water is as saline as the ocean.
- 5 MS. ANSLEY: Can we look at EJCW-11, which I
- 6 believe is a copy of this study.
- 7 (Exhibit displayed on screen.)
- 8 MS. ANSLEY: Can we go to .pdf Page 5.
- 9 (Exhibit displayed on screen.)
- 10 MS. ANSLEY: Is your conclusions regarding
- 11 tripling in fish tissue mercury concentration based
- 12 solely on the upper left figure there? I think this is
- 13 Figure 2 of this study.
- 14 WITNESS SHILLING: I think so.
- MS. ANSLEY: And it's your understanding that
- 16 this is a figure based on the field study?
- 17 WITNESS SHILLING: Yes.
- MS. ANSLEY: And is it your understanding --
- 19 Did you draw your conclusion by reading this graph of
- 20 the fitted line between those 12 points?
- 21 WITNESS SHILLING: Yes.
- 22 Well, I don't remember if the slope is in the
- 23 text, which I would have used instead.
- MS. ANSLEY: On Page 8 of your testimony, you
- 25 now discuss the --

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1 (Exhibit displayed on screen.)
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- 2 MS. ANSLEY: -- temperature modeling attached
- 3 to the Incidental Take Permit. I believe -- the
- 4 Incidental Take Permit; is that correct?
- 5 On Page -- On Page 8 of your testimony?
- 6 WITNESS SHILLING: Yes.
- 7 MS. ANSLEY: Okay. And is it your
- 8 understanding that modeling was -- What it does is, it
- 9 incorporates the modeling for the Biological
- 10 Assessment?
- 11 WITNESS SHILLING: Yes. I think so. Yeah.
- MS. ANSLEY: And looking at Pages 13 through
- 13 14 --
- 14 (Exhibit displayed on screen.)
- 15 MS. ANSLEY: -- you talk about changes in
- 16 water temperature caused by Proposed Project.
- 17 Do you see that?
- 18 WITNESS SHILLING: 13 and 14 of . . .
- 19 MS. ANSLEY: Of the same page. I'm sorry.
- 20 WITNESS SHILLING: You mean lines?
- MS. ANSLEY: I'm sorry. Page 8, lines 13 to
- 22 14. I apologize.
- 23 WITNESS SHILLING: Can you repeat your
- 24 question.
- 25 MS. ANSLEY: I -- I completely can. Sorry

- 1 about that.
- 2 WITNESS SHILLING: Okay.
- 3 MS. ANSLEY: So, on Page 8, Lines 13 to 14,
- 4 you discuss (reading):
- 5 ". . . Seemingly small and thus harmless
- 6 changes in water temperature caused by
- 7 the Proposed Project."
- 8 Is that correct?
- 9 WITNESS SHILLING: Yes.
- 10 MS. ANSLEY: Now, looking back at the previous
- 11 paragraph, which is Paragraph 1 through 12 --
- 12 (Exhibit displayed on screen.)
- MS. ANSLEY: -- starting with Lines 5 through
- 14 6, you state (reading):
- "In drought conditions and under the
- 16 preferred alternative, releases from
- 17 Folsom to Lower American River and then
- 18 to the Sacramento River/Delta would be as
- 19 high as 70 degrees F."
- 20 And you cite Page 5.C-18.
- 21 Do you see that?
- 22 WITNESS SHILLING: Yes.
- MS. ANSLEY: Isn't it true that 5.C-18 is
- 24 actually a table of temperature targets used in the
- 25 HEC5Q modeling?

- 1 WITNESS SHILLING: Yes, for an operational
- 2 regime associated with the Project. So operating the
- 3 Project.
- 4 MS. ANSLEY: And then you cite a number of
- 5 figures, and we can call them up -- Lines 7 through
- 6 12 -- where you discuss temperature results of the
- 7 modeling.
- 8 Isn't it true that there is no statistical
- 9 difference between the Proposed Action and the
- 10 No-Action --
- 11 (Timer rings.)
- 12 MS. ANSLEY: -- and the No-Action Alternative
- 13 on any of the graphs you cite here?
- 14 WITNESS SHILLING: That may be true, but the
- 15 mercury methylation doesn't operate based on averages.
- 16 It's -- It's exacerbated by increases in temperature.
- 17 And, then, if that mercury is incorporated into trophic
- 18 levels, different trophic levels including fish, then
- 19 it doesn't go away very quickly.
- 20 So spikes in temperature are very important,
- 21 even if your average condition doesn't vary very much.
- 22 If you have a spike, you will cause additional mercury
- 23 methylation.
- MS. ANSLEY: I understand that that is your
- 25 testimony later starting, I think, on Paragraph 13.

- 1 But what I'd like to concentrate here is
- 2 making sure the record is clear about what these graphs
- 3 actually show.
- 4 Can we pull up EJCW-12?
- 5 (Exhibit displayed on screen.)
- 6 MS. ANSLEY: And can we go to .pdf Page 204,
- 7 if I got these all right. I tried to look up the .pdf
- 8 pages.
- 9 (Exhibit displayed on screen.)
- 10 MS. ANSLEY: So this is one of the graphs you
- 11 reference for river temperatures as high as 70 -- or
- 12 greater than 70 degrees Fahrenheit at Knights Landing;
- 13 is that correct?
- 14 WITNESS SHILLING: Yes.
- MS. ANSLEY: And this graph -- Although it's
- 16 not listed in your testimony, this graph provides
- 17 results for both the Proposed Action and the No-Action
- 18 Alternative; is that correct?
- 19 WITNESS SHILLING: That particular one, yes.
- 20 MS. ANSLEY: Okay. On Page 10 of your
- 21 testimony -- I'm ready to move on past this graph
- 22 unless you'd like to look at the rest of the graphs.
- 23 But I believe your testimony was that the rest
- 24 of the graph shows the same result, that there is no
- 25 statistical difference between the Proposed Action and

- 1 the No-Action Alternative, at least in terms of the
- 2 monthly averages shown by those graphs; is that
- 3 correct?
- 4 WITNESS SHILLING: Yes. But it's not
- 5 informative when it comes to mercury methylation and
- 6 the risk of mercury bioaccumulation because the monthly
- 7 average it is not the way that you would index that
- 8 risk.
- 9 As well the models, as I said, are not
- 10 representative of actual conditions that would be
- 11 predicted to result from operation of the Project.
- 12 MS. ANSLEY: Okay. My questions went to -- I
- 13 understand your testimony.
- I would respectfully move to strike. My
- 15 questions were solely as to the results of those graphs
- 16 which were cited in his testimony in a different
- 17 paragraph.
- 18 WITNESS SHILLING: You also referenced the
- 19 statistical relationship between the No-Action
- 20 Alternative and the Project Alternative, which does
- 21 relate to how the modeling and the statistical analysis
- 22 is done.
- 23 MS. ANSLEY: I was referring to the results of
- 24 that modeling.
- 25 WITNESS SHILLING: Yes. And you compared the

1 NAA and PA, whether or not they were statistically

- 2 significantly different or similar.
- 3 MS. ANSLEY: Based on the averages shown on
- 4 that graph and I believe you answered me.
- 5 WITNESS SHILLING: Including the part you
- 6 struck, yes.
- 7 MS. ANSLEY: Yes. And -- Yes. That is a
- 8 serious objection.
- 9 CO-HEARING OFFICER DODUC: All right.
- 10 MS. ANSLEY: On Page 10 of your testimony,
- 11 Lines 15 through 24.
- 12 (Exhibit displayed on screen.)
- MS. ANSLEY: Starting on Line 15, you say
- 14 (reading):
- 15 "Most disturbingly, WaterFix finds
- that increases of 9-15 percent . . . in
- 17 fish tissue mercury are possible in
- 18 various Delta waterways . . ."
- 19 Do you see that testimony?
- 20 WITNESS SHILLING: Yes.
- MS. ANSLEY: And at the end of that sentence
- 22 on Line 18, you cite Chapter 8, Page 8-525 of the FEIR.
- Do you see that?
- 24 WITNESS SHILLING: Yes.
- MS. ANSLEY: Is it your understanding that

- 1 those are the results for Alt 4 as opposed to Alt 4A?
- 2 WITNESS SHILLING: Why don't we go to that
- 3 page.
- 4 MS. ANSLEY: Sure.
- 5 So that would be EJCW-13, just to make it
- 6 quicker and easier because they have an excerpt.
- 7 (Exhibit displayed on screen.)
- 8 MS. ANSLEY: And this is Page 8-525.
- 9 (Exhibit displayed on screen.)
- 10 WITNESS SHILLING: (Examining document.)
- 11 MS. ANSLEY: I personally can't see it so if
- 12 you'd like to --
- 13 WITNESS SHILLING: It's in the bottom
- 14 paragraph.
- MS. ANSLEY: -- blow up any portion . . .
- 16 WITNESS SHILLING: I'm just looking at the
- 17 document.
- 18 WITNESS NORRIS: Scroll up.
- 19 MS. ANSLEY: That's fine. Whatever you need
- 20 to look at to confirm to yourself which alternative
- 21 this is discussing.
- 22 WITNESS SHILLING: Yes. I think they were
- 23 referring to 4.
- 24 MS. ANSLEY: Okay. Do you recall reviewing
- 25 the -- the similar testimony on impact -- or not

- 1 testimony.
- 2 Do you recall reviewing the results of
- 3 analysis in the FEIR for Alt 4A?
- 4 WITNESS SHILLING: Yeah, I don't recall now.
- 5 MS. ANSLEY: So you don't recall that all the
- 6 concentrations reported there were less than -- were
- 7 8 percent or less?
- 8 WITNESS SHILLING: No, I don't remember that.
- 9 But that's because it was four months ago.
- 10 I'm sorry.
- 11 MS. ANSLEY: I have no further questions for
- 12 Dr. Shilling.
- 13 CO-HEARING OFFICER DODUC: I don't see
- 14 Mr. Herrick anymore.
- 15 Miss Des Jardins, do you have questions?
- MS. DES JARDINS: Yes, I do.
- 17 CO-HEARING OFFICER DODUC: Miss Des Jardins,
- 18 you had requested 10 minutes.
- 19 For whom do you have questions?
- 20 MS. DES JARDINS: For Dr. Shilling.
- 21 CO-HEARING OFFICER DODUC: All right.
- MS. DES JARDINS: And it's about the modeling.
- 23 Big surprise. So --
- 24 CO-HEARING OFFICER DODUC: A sense of humor's
- 25 always appreciated. Thank you.

1	CROSS-EXAMINATION BY
2	MS. DES JARDINS: So, Dr. Shilling, on Page 8
3	of your testimony, I'd like to go to Section 13.
4	(Exhibit displayed on screen.)
5	MS. DES JARDINS: We just had that up.
6	And you discuss On Line 21 at 13, you
7	discuss the finding in that there's no statistically
8	significant effect on water temperature.
9	And you say it's because of how the modeling
10	and the statistical significance was carried out?
11	WITNESS SHILLING: Yes.
12	MS. DES JARDINS: Can I think you explain a
13	little bit more, and go on to the next page. I'd like
14	to go to Page 10 at 4.
15	(Exhibit displayed on screen.)
16	MS. DES JARDINS: And you mention the
17	temperature results are presented on a monthly time
18	step from both HEC5Q and the Reclamation Temperature
19	Model?
20	WITNESS SHILLING: Yeah. I see that.
21	MS. DES JARDINS: Is that correct?
22	WITNESS SHILLING: Yeah.
23	MS. DES JARDINS: And the (reading):
24	"Monthly flow and temperature
25	results are unlikely to address the daily

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1 variability in the river
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- 2 temperatures . . . "
- 3 WITNESS SHILLING: Yes.
- 4 MS. DES JARDINS: And so the only -- You are
- 5 saying they only reflect changes in the monthly means?
- 6 WITNESS SHILLING: Yes.
- 7 And so they hide any important variation at a
- 8 daily or weekly timeframe when you could exacerbate the
- 9 mercury methylation or other temperature-related
- 10 problems.
- 11 And, then, even if you brought them back under
- 12 control and your monthly average temperature didn't
- 13 change from month to month or beyond expected, you
- 14 could still cause those pollution or contamination or
- 15 other problems.
- MS. DES JARDINS: And -- And one of the things
- 17 you state further there, down on Line 10, you say that
- 18 there's large -- one of the reasons is that (reading):
- ". . . Temperatures ranges within months
- 20 are so large due to daily and weekly
- 21 variation."
- 22 WITNESS SHILLING: Yeah. So if you have very
- 23 wide ranges that overlap each other --
- 24 CO-HEARING OFFICER DODUC: Dr. Shilling --
- MS. DES JARDINS: Yeah.

- 1 CO-HEARING OFFICER DODUC: -- if I might
- 2 interrupt.
- 3 This is not just directed at Miss Des Jardins.
- 4 She just happens to be the one doing it right now.
- 5 So many times a witness -- I mean, a wit -- a
- 6 cross-examiner will just repeat what's already in the
- 7 testimony without asking a question, and then the
- 8 witness feels obligated to expand upon what's in his or
- 9 her testimony.
- I would ask: One, that, Miss Des Jardins, you
- 11 ask a specific question and not just ask him to affirm
- 12 what's already in his written testimony; and, two,
- 13 Dr. Shilling, that you not expand unless specifically
- 14 requested to.
- 15 WITNESS SHILLING: Okay.
- MS. DES JARDINS: Well --
- 17 WITNESS SHILLING: I will do that.
- 18 MS. DES JARDINS: -- I would like to know
- 19 about the daily and weekly variation in the Delta.
- 20 CO-HEARING OFFICER DODUC: Yes. Then ask
- 21 that.
- MS. DES JARDINS: Yeah.
- 23 Can you tell me a little bit about why there's
- 24 large daily and weekly variation in the Delta.
- 25 WITNESS SHILLING: Well, you would expect, due

- 1 to air and temperature conditions, that you would have
- 2 that variation between night and day. And then from
- 3 week to week, as weather conditions change, you would
- 4 also expect to have temperature differences from week
- 5 to week.
- 6 MS. DES JARDINS: Isn't that, like, generally
- 7 a property of the Bay Area, that there's very large,
- 8 for --
- 9 WITNESS SHILLING: I think it's --
- 10 MS. DES JARDINS: -- example, daily
- 11 variations.
- 12 WITNESS SHILLING: Yeah. It's a general
- 13 property of anywhere you have night and day and water.
- MS. DES JARDINS: And there's a lot of water
- 15 in the Delta --
- 16 WITNESS SHILLING: Yes.
- 17 MS. DES JARDINS: -- as well as San Francisco
- 18 Bay.
- 19 Okay. And so you're concerned -- so there --
- 20 that there could be biologically meaning -- meaningful
- 21 differences in daily temperatures?
- 22 WITNESS SHILLING: Yes.
- MS. DES JARDINS: Because of spikes? Is
- 24 that --
- 25 WITNESS SHILLING: Yes.

1 MS. DES JARDINS: -- because of spikes during

- 2 the day?
- 3 So what kind of -- Under what circumstances
- 4 would you see spikes in daily temperatures during the
- 5 day with -- because of the Project?
- 6 WITNESS SHILLING: Well, if air -- Oh, because
- 7 of the Project?
- 8 MS. DES JARDINS: Yeah.
- 9 WITNESS SHILLING: Under low-flow conditions
- 10 in particular, when this is a critical issue, you would
- 11 expect to see much greater variation because there's
- 12 less water volume.
- 13 And so changes in air temperature and wind
- 14 conditions will have a greater effect on lower-flow
- 15 levels of the Sacramento River because there's less
- 16 volume.
- But this is also true of the other waterways
- 18 that are part of the general operation of the Project,
- 19 because at low-flow conditions for those waterways as
- 20 well, you would also expect to have spikes in mercury
- 21 methylation with spikes in water temperature, which
- 22 originate from air temperature and wind conditions.
- 23 So it's not just in the vicinity of the
- 24 Project. It's also the water used to operate the
- 25 Project and try to control temperatures.

- 1 In drought conditions, or under exceptionally
- 2 hot conditions, it would be very challenging to -- to
- 3 manage the temperature at that location unless you had
- 4 overriding legal considerations. And even those can be
- 5 overturned for the sake of, I don't know, whatever
- 6 reason is prevailing at the moment.
- 7 So the point of that is that if you create a
- 8 condition where it's possible to get those increases in
- 9 water temperature, you're very likely to get increases
- 10 in mercury methylation.
- 11 MS. DES JARDINS: You also mention harmful
- 12 algal blooms.
- 13 Do you . . . Are those correlated with spikes
- 14 in temperature?
- 15 WITNESS SHILLING: In water temperature, yes,
- 16 they're correlated with -- they can be correlated with
- 17 spikes in water temperature.
- 18 MS. DES JARDINS: So -- So not just with,
- 19 like, changes in the mean temperature but changes in
- 20 the maximum temperature?
- 21 WITNESS SHILLING: It depends on the duration
- 22 of the spike. If it's long enough for the population
- 23 of algal to -- algae to actually increase and then
- 24 start exponentially growing, then you would expect to
- 25 get a bloom as long as you had sufficient nutrients to

- 1 also support the bloom.
- 2 MS. DES JARDINS: And then you mention young
- 3 cold water-dependent fish as an example of an impact by
- 4 a spike.
- 5 So how long of a spike would you need to kill,
- 6 for example, you know, Salmon Smolts?
- 7 WITNESS SHILLING: If you reach 25 degrees
- 8 Celsius for really not very -- on the order of hours or
- 9 less, you'll kill Salmon smolt.
- 10 Those temperatures are reached during the
- 11 migra -- the down migration period of Salmon in the
- 12 Delta, especially in the San Joaquin River, less
- 13 commonly in the Sacramento.
- 14 But if you were to -- As you approach
- 15 25 degrees C, growth rate slows down, and as you hit
- 16 around 25 degrees C, you're definitely going to get
- 17 mortality. If you go above 15 degrees C, you affect
- 18 growth rate.
- 19 So, really, the temperatures we're talking
- 20 about here are already causing harm to the Salmon --
- 21 down-migrating Salmon.
- MS. DES JARDINS: Are you aware that Salmon in
- 23 the Delta grow more slowly?
- 24 WITNESS SHILLING: Than?
- 25 MS. DES JARDINS: Than Salmon in other

- 1 estuaries?
- 2 WITNESS SHILLING: I didn't know that.
- 3 MS. DES JARDINS: Okay. Well, then, I won't
- 4 ask you about that.
- 5 What other cold water-dependent fish would be
- 6 affected?
- 7 WITNESS SHILLING: Well, in terms of
- 8 anadromous fish, Steelhead would occur. There are --
- 9 There are anadromous fish that are less anadromous,
- 10 let's say, than Salmon, Sturgeon, Lamprey. I mean,
- 11 they're definitely anadromous. We just don't think of
- 12 them as much. And then the Smelt -- Delta Smelt,
- 13 Longfin Smelt, they come in from the bay to -- to --
- 14 into the Delta to spawn.
- MS. DES JARDINS: So the temperature spikes
- 16 also affect Delta Smelt?
- 17 WITNESS SHILLING: If you get warm enough
- 18 temperature for a cold water-dependent fish, then you
- 19 can cause reduction in growth and eventually mortality,
- 20 depending on the temperature and the species.
- 21 MS. DES JARDINS: Okay.
- 22 CO-HEARING OFFICER DODUC: Hold on, please.
- MS. ANSLEY: I believe that Dr. Shilling's
- 24 answer's correct, but I object to the form of the
- 25 question.

- 1 He did no analysis on any particular
- 2 variations in temperature. So to the extent she's
- 3 asking for actual effects as opposed to hypothetically
- 4 asking biologically could something happen, then I'd
- 5 lodge an objection that she is -- that he has not shown
- 6 that he did an analysis on this and cannot answer a
- 7 question about specific impacts of temperature
- 8 fluctuations.
- 9 But I do believe Dr. Shilling is properly
- 10 answering.
- 11 CO-HEARING OFFICER DODUC: Dr. Shilling, would
- 12 you agree?
- 13 WITNESS SHILLING: That I'm properly
- 14 answering?
- 15 CO-HEARING OFFICER DODUC: No.
- 16 (Laughter.)
- 17 CO-HEARING OFFICER DODUC: That you did not do
- 18 specific analysis but are answering based on your
- 19 expertise, so a hypothetical.
- 20 WITNESS SHILLING: Hypotheticals based on
- 21 temperatures that could occur during -- during
- 22 operations, I can restrict it to that.
- 23 CO-HEARING OFFICER DODUC: All right.
- MS. DES JARDINS: I also wanted to ask --
- 25 CO-HEARING OFFICER DODUC: Hold on.

- 1 MS. DES JARDINS: Oh.
- 2 MS. ANSLEY: I do object to any testimony on
- 3 temperature effects of -- due to operations that are
- 4 not shown by any modeling or evidence, because he did
- 5 not do any independent analysis.
- 6 So, to the extent he makes testimony about an
- 7 impact that is not based on the Biological Assessment
- 8 modeling that he references, then he is not basing his
- 9 testimony on any evidence in the record.
- 10 CO-HEARING OFFICER DODUC: We will frame all
- 11 of that as hypotheticals.
- MS. DES JARDINS: Are you aware that this is
- 13 also a hearing for the Water Quality Certification for
- 14 the WaterFix Project?
- 15 WITNESS SHILLING: Yes.
- MS. DES JARDINS: Do --
- 17 CO-HEARING OFFICER DODUC: Hold on.
- 18 Mr. Mizell.
- MR. MIZELL: Yes.
- 20 I'd like to object as mischaracterizing the
- 21 scope of this hearing. It is not a joint hearing on
- 22 the Water Quality Certification.
- 23 CO-HEARING OFFICER DODUC: That is correct.
- MS. DES JARDINS: Okay.
- 25 CO-HEARING OFFICER DODUC: The objection is

- 1 sustained.
- MS. DES JARDINS: Are you aware that the
- 3 information in this proceeding . . .
- 4 I'll just go on.
- 5 CO-HEARING OFFICER DODUC: Actually, you were
- 6 on the right path.
- 7 MS. DES JARDINS: Do -- You know, are you
- 8 aware that the information in this proceeding will be
- 9 considered in the Water Quality Certification for the
- 10 WaterFix Project?
- 11 WITNESS SHILLING: I'm just going to hold any
- 12 opinion about that whole thing and ask that we go to a
- 13 different question.
- MS. DES JARDINS: I was just going to say --
- 15 WITNESS SHILLING: Just because --
- MS. DES JARDINS: -- do you think --
- 17 WITNESS SHILLING: -- I don't know --
- MS. DES JARDINS: -- that the Board --
- 19 WITNESS SHILLING: -- enough to answer
- 20 correctly.
- MS. DES JARDINS: -- should take subsistence
- 22 fishing, beneficial use, into account when considering
- 23 the Water Quality Certification?
- 24 WITNESS SHILLING: Yes.
- MS. DES JARDINS: And are you aware that the

1 Department of Water Resources has a new version of the

- 2 CalSim model with daily outputs?
- WITNESS SHILLING: No.
- 4 MS. DES JARDINS: Okay. That concludes my
- 5 questioning.
- 6 CO-HEARING OFFICER DODUC: Thank you.
- 7 Any redirect, Mr. Bailey? See, I stopped
- 8 myself from calling you Mr. Colin. Mr. Bailey.
- 9 MR. BAILEY: I respond to either one. Thank
- 10 you.
- Just a brief few for Dr. Shilling.
- 12 CO-HEARING OFFICER DODUC: All right.
- 13 REDIRECT EXAMINATION BY
- 14 MR. BAILEY: Dr. Shilling, you were asked
- 15 about the Clarksburg Boat Launch.
- 16 One of the -- Are you aware that one of the
- 17 intakes is across from the boat launch?
- 18 WITNESS SHILLING: I believe so. I believe it
- 19 is, yeah.
- MR. BAILEY: And are you also aware that it's
- 21 estimated to take a matter of some years during
- 22 construction should WaterFix actually -- to construct
- 23 the intakes, rather, should WaterFix be approved?
- 24 WITNESS SHILLING: Yes.
- MR. BAILEY: So if there were construction

- 1 across the river from the Clarksburg boat ramp, could
- 2 that interfere with fishing from or at the boat ramp?
- 3 WITNESS SHILLING: Possibly not because of
- 4 access, but certainly from fish being present.
- 5 One of the reasons that the boat ramp was
- 6 built there and that people crowd around Scribner Bend
- 7 is, that's where the Sturgeon are and they're there
- 8 because there's deep cold water pools. I doubt they
- 9 would stay there during construction.
- 10 MR. BAILEY: Okay. Thank you.
- 11 That concludes my redirect.
- 12 CO-HEARING OFFICER DODUC: Any recross?
- MS. ANSLEY: No, we don't have any recross.
- 14 CO-HEARING OFFICER DODUC: Does that include
- 15 your case in chief, Mr. Bailey?
- MR. BAILEY: That includes EJCW's case in
- 17 chief.
- 18 CO-HEARING OFFICER DODUC: Would you like to
- 19 move your exhibits into the record?
- 20 MR. BAILEY: Yes. EJ -- We would like to move
- 21 EJCW Exhibits 2 through now 37, which excludes 38 which
- 22 was formally Mr. Heagerty's and is now withdrawn, into
- 23 evidence.
- 24 CO-HEARING OFFICER DODUC: Any objections?
- MS. ANSLEY: Yes. Thank you.

1 Jolie-Anne Ansley for the Department of Water

- 2 Resources.
- 3 As to Mr. Shilling's testimony, I'd like to
- 4 move to strike his testimony regarding the Army Corps
- 5 of Engineers' 404 Permit and the consultation necessary
- 6 for the 404 Permit, which would be Page 4, Lines 21
- 7 through Page 5, Line 13.
- 8 I believe it's also con -- there's also a
- 9 conclusory statement on Page 11, Lines 5 through 7.
- 10 For the students that we had on Panel 1, I'd
- 11 like to lodge a hearsay objection to EJCW-37, Page 5,
- 12 the second Paragraph 21. There are two Paragraph 21s,
- 13 but the second one has -- I'd lodge a hearsay objection
- 14 to that paragraph.
- 15 And then, finally, I would like to lodge an
- 16 objection to the -- the four students, Milo Wetherall,
- 17 Luci Paczkowski, Allegra Schunemann and Caroline
- 18 Schurz, being deemed experts in this proceeding. I
- 19 believe that they are not qualified as experts in
- 20 public trust resources. I believe they cited to no
- 21 testimony.
- 22 They do have Statements of Qualifications on
- 23 the back of their testimony. I'm happy to go into it.
- 24 But I would offer that it is more proper to
- 25 change their designation from expert witness to lay

1 witness and, of course, then I would have no objections

- 2 if that change was made.
- 3 CO-HEARING OFFICER DODUC: Mr. Bailey, your
- 4 response to that last objection.
- 5 MR. BAILEY: I don't recall designating them
- 6 as experts, but perhaps that happened.
- 7 I agree that they would probably be better
- 8 classed as non-experts.
- 9 CO-HEARING OFFICER DODUC: All right.
- 10 MS. ANSLEY: So that would be -- just to make
- 11 sure I wasn't clear for the record -- EJCW-34, EJCW-35,
- 12 EJCW-36, and EJCW-37.
- 13 Thank you.
- 14 CO-HEARING OFFICER DODUC: And, I'm sorry, is
- 15 it your objection to those exhibits or --
- MS. ANSLEY: Those are the exhibits that I --
- 17 of the students' testimony that I feel that should be
- 18 designated as lay testimony, not expert testimony. I
- 19 just failed to read their --
- 20 CO-HEARING OFFICER DODUC: Understood.
- 21 MS. ANSLEY: -- exhibit numbers.
- 22 Thank you.
- 23 CO-HEARING OFFICER DODUC: Response to any of
- 24 the other objections?
- MR. BAILEY: Just a point of clarification

- 1 because I think I missed it in my notes.
- 2 The -- The . . . objection to Dr. Shilling's
- 3 reference to the Army Corps of Engineers' 404
- 4 proceeding.
- 5 What was that objection?
- 6 MS. ANSLEY: So that objection is line --
- 7 Page 4, Line 31 through Page 5, Line 13, and then
- 8 Page 11, Lines 5 to 7.
- 9 And the objection would be that the Army Corps
- 10 of Engineers' permitting process is outside the scope
- 11 of this proceeding. It's a separate proceeding in
- 12 front of another entity and another permitting Board.
- And so the process that's done for purposes of
- 14 the Section 404 Permit is not necessarily, and
- 15 certainly not established in this testimony, the
- 16 process that's before this Board.
- 17 So I would say, in the same vein that water
- 18 certification and CEQA compliance and the Bay-Delta
- 19 Water Quality Control Plan, that that is indeed a
- 20 separate process from this proceeding.
- MS. MESERVE: If I might inquire, however.
- Isn't the Army Corps application, wasn't that
- 23 put forth as part of the Petition, supporting the
- 24 Petition?
- MS. ANSLEY: I don't believe that we have

- 1 submitted that as an exhibit. I believe that you --
- 2 you all submitted the 404 application as an exhibit.
- 3 I can let Mr. Mizell chime in. But my
- 4 understanding is, Section 106 compliance, which is the
- 5 Tribal Grant Program, is what Dr. Shilling is talking
- 6 about here, and I think that that is outside the scope
- 7 of the hearing issues.
- 8 CO-HEARING OFFICER DODUC: We will just take
- 9 those objections under advisement.
- 10 All right. Thank you.
- 11 MS. GAYLON: Sorry. A point of
- 12 clarification --
- 13 CO-HEARING OFFICER DODUC: Um-hmm.
- MS. GAYLON: -- for the record.
- 15 You said EJCW-2 through 37, but that does not
- 16 include EJCW-16, 23 or 33.
- 17 CO-HEARING OFFICER DODUC: Correct?
- 18 MR. BAILEY: Sorry. You're saying that's
- 19 20 . . .
- 20 MS. GAYLON: Yes. You said the whole list but
- 21 I'm pointing out three that should not be included.
- 22 16 was previously not accepted.
- MR. BAILEY: Ah.
- MS. GAYLON: 23 was never submitted; and 33
- 25 was superseded by 33-Errata. So just for purposes of

- 1 clarity of the record.
- 2 CO-HEARING OFFICER DODUC: That's correct.
- 3 MR. BAILEY: Thank you for cleaning that up.
- 4 (Environmental Justice Coalition for
- 5 Water's Exhibits EJCW-2 through
- 6 EJCW-22, EJCW-24 through EJCW-33
- 7 Errata, EJCW-34 through EJCW-37
- 8 received in evidence)
- 9 CO-HEARING OFFICER DODUC: All right. Let's
- 10 do some timekeeping for next week.
- 11 Yes, you are dismissed. Thank you --
- 12 WITNESS SHILLING: Thank you.
- 13 CO-HEARING OFFICER DODUC: -- very much. Safe
- 14 travels back.
- 15 (Panel excused.)
- 16 CO-HEARING OFFICER DODUC: Unless we hear
- 17 otherwise -- Unless you hear otherwise from us --
- 18 Because we do have motions being submitted I believe
- 19 it's tomorrow and then responses on Wednesday, unless
- 20 you hear otherwise from us, when -- if we resume next
- 21 Monday, we will begin with NRDC, Mr. Ouija from NRDC.
- 22 And I gather from the time estimates received
- 23 last week that there is quite a bit of
- 24 cross-examination for Mr. Obegi, so that's -- I'm
- 25 guessing we'll take at least half a day.

1 So then we will get to Miss Des Jardins and

- 2 PCFFA.
- 3 At this point, have you confirmed whether or
- 4 not you're switching positions?
- 5 MS. DES JARDINS: Miss Doduc, PCFFA did put in
- 6 a formal written request at 1:34 this afternoon to --
- 7 to switch following up on Osha -- Miss Meserve's --
- 8 CO-HEARING OFFICER DODUC: So you are
- 9 switching with . . .
- 10 MS. MESERVE: With the Stone Lakes' two
- 11 panels, if that's okay with the hearing officers.
- 12 CO-HEARING OFFICER DODUC: Is that -- Are
- 13 there any objections to that?
- MR. MIZELL: Tripp Mizell, DWR.
- We don't have an objection to the switch that
- 16 was just mentioned. However, it does still leave open
- 17 the question of in which order will Miss Des Jardins'
- 18 panel go.
- 19 CO-HEARING OFFICER DODUC: Yes. So I'm asking
- 20 Miss Des Jardins right now -- hold on a second -- is
- 21 Dr. Fries prepared to present on Monday or Tuesday?
- MS. DES JARDINS: Dr. Fries could present
- 23 either day.
- 24 And if the NRDC cross went long, it might be
- 25 most efficient to have him present at the end of

1 Tuesday rather than having the Stone Lakes panel start

- 2 and then --
- 3 CO-HEARING OFFICER DODUC: I don't believe
- 4 Mr. Obegi should take the entire day on Monday.
- 5 MS. DES JARDINS: Okay. So whatever's most
- 6 efficient, as long as he can go on on the 9th or the
- 7 10th, that would be great.
- 8 CO-HEARING OFFICER DODUC: All right. I
- 9 expect we should be able to get to him the afternoon of
- 10 Monday.
- 11 So the game plan is to begin with Mr. Obegi,
- 12 and then to get to Dr. Fries.
- 13 And then we would get to Miss Meserve . . .
- 14 yes, your two panels; right?
- 15 And, Miss Des Jardins, you should be getting
- 16 some correspondence from us hopefully later today, if
- 17 not tomorrow, regarding your subpoena witness and
- 18 giving you some further instructions with respect to
- 19 that.
- 20 MS. DES JARDINS: Thank you very much.
- 21 CO-HEARING OFFICER DODUC: I think that should
- 22 cover us, at least for Monday, Tuesday and quite
- 23 possibly Wednesday, depending on how much
- 24 cross-examination is there for Miss Meserve's
- 25 witnesses.

1	Are there any other housekeeping matter?
2	All right. Not seeing any, thank you all, and
3	we will maybe see you on Monday.
4	And if we see you on Monday, we will be
5	where will we be? We will be Oh, back here, the
6	Sierra Hearing Room.
7	(Proceedings adjourned at 3:43 p.m.)
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1 State of California
   County of Sacramento )
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 4
         I, Candace L. Yount, Certified Shorthand Reporter
   for the State of California, County of Sacramento, do
 5
   hereby certify:
 б
 7
         That I was present at the time of the above
   proceedings;
 8
         That I took down in machine shorthand notes all
 9
   proceedings had and testimony given;
10
         That I thereafter transcribed said shorthand notes
11
   with the aid of a computer;
12
         That the above and foregoing is a full, true, and
13
    correct transcription of said shorthand notes, and a
14
    full, true and correct transcript of all proceedings
15
   had and testimony taken;
16
         That I am not a party to the action or related to
17
   a party or counsel;
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         That I have no financial or other interest in the
   outcome of the action.
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   Dated: April 8, 2018
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                        Candace L. Yount, CSR No. 2737
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