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2	ARIZONA NAVIGABLE	STREAM ADJUDICATION	N COMMISSION
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6	RIVER, YAVAPAI, GILA A COUNTIES, ARIZONA.	•	
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10	At: Phoenix, Ari	zona	
11	Date: April 3, 201	5	
12	Filed: April 22, 20	15	
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### REBUTTAL DIRECT EXAMINATION BY MS. HERNBRODE REBUTTAL CROSS-EXAMINATION BY MR. MCGINNIS 3526 REBUTTAL CROSS-EXAMINATION BY MR. HODD 3556 REBUTTAL CROSS-EXAMINATION BY MR. HELM 3560 REBUTTAL CROSS-EXAMINATION BY MR. HELM 3560 REBUTTAL CROSS-EXAMINATION BY MR. HELM 3560 REBUTTAL REDIRECT EXAMINATION BY MS. HERNBRODE 3561 REBUTTAL CROSS-EXAMINATION BY MR. HELM 3560 REBUTTAL CROSS-EXAMINATION BY MR. HELM 3560 REBUTTAL CROSS-EXAMINATION BY MR. HODD 3566 REBUTTAL CROSS-EXAMINATION BY MR. HELM 3560 REBUTTAL CROSS-EXAMINATION BY MR. MCGINNIS 3560 SALMON LEWIS SUMMARY AND STATE BY MR. MCGINNIS 3560 REBUTTAL CROSS-EXAMINATION BY MR. HODD 3566 REBUTTAL CROSS-EXAMINATION BY MR. HODD 3566 FOR MARK BY MR. MCGINNIS 3560 By Mr. Mark By Mr. Mark By Mr. R. Je 200 Phoenix, Ario (602) 301-90 REBUTTAL CROSS-EXAMINATION BY MR. HODD 3560 By Mr. Mark By Mr. Mark By Mr. Assistant At 1275 West Was Phoenix, Ario (602) 352-77 FORT MCDOWELL BY MR. HELM 3561 FORT MCDOWELL BY MR. HELM 3660 By Mr. Thoma Acting Gener By Dr. Carol Director of F.O. Box 177 For Fort McDowell By Mr. Thoma Acting Gener By Dr. Carol Director of F.O. Box 177 For Fort McDowell By Mr. Thoma Acting Gener By Dr. Carol Director of F.O. Box 177 For Fort McDowell By Mr. Thoma Acting Gener By Mr. Mark By M	Project Agricultural Improvement and d Salt River Valley Water Users' & WELDON, PLC A. McGinnis, Esq. ffrey Heilman melback Road zona 85016 66 60 om om Yavapai Nation: L YAVAPAI NATION s Moriarty al Counsel e Coe Klopatek Government Relations 79 1s, Arizona 85269-7779 00 mcdowell.org mcdowell.org Land Department: RNEY GENERAL'S OFFICE
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3 before the Arizona Navigable Stream Adjudication 3	ty:
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helm.john@hl	
7 BEFORE: WADE NOBLE, Chairman 8 JIM HENNESS, Vice Chairman	
JIM HORTON, Commissioner For Yayabai-Abach	e Nation:
9 BILL ALLEN, Commissioner 9 MONTGOMERY &	INTERPRETER, PLC
10 By Ms. Susan COMMISSION STAFF: 4835 East Ca	B. Montgomery
11 Suite 210 Scottsdale,	Arizona 85254
12 Legal Assistant, Research Analyst 12 (480) 513-68 smontgomery@	25
APPEARANCES:	
To the Commission:	
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For Freeport Minerals Corporation: For the City of P. 21	
22 By Mr. Sean T. Hood, Esq. 22 By Ms. Cynth	NIX LAW DEPARTMENT ia S. Campbell
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	April 3, 2015
Page 3465	Page 3467
CHAIRMAN NOBLE: Good morning.	1 A. I'm Jonathan Fuller. I reside in Phoenix,
2 Mr. Mehnert, will you call the roll.	2 Arizona.
3 DIRECTOR MEHNERT: Commissioner Allen.	3 Q. All right. Jon, did you rely on other
4 COMMISSIONER ALLEN: Present.	4 experts in preparing your report and testimony?
5 DIRECTOR MEHNERT: Commissioner Henness.	5 A. Yes, I did.
6 COMMISSIONER HENNESS: Present.	6 Q. Historians?
7 DIRECTOR MEHNERT: Commissioner Horton.	7 A. Yes.
8 COMMISSIONER HORTON: Here.	8 Q. Archaeologists?
9 DIRECTOR MEHNERT: Chairman Noble.	9 A. Yes.
10 CHAIRMAN NOBLE: Here.	10 Q. Other hydrologists, geomorphologists?
11 DIRECTOR MEHNERT: Legal counsel is	11 A. Yes.
12 here, and we have a quorum.	12 Q. Let's start
13 CHAIRMAN NOBLE: Good morning, Jon.	13 A. Check that. Other geomorphologists, no other
14 THE WITNESS: Good morning, sir.	14 hydrologists.
15 CHAIRMAN NOBLE: Joy, are you ready to	15 Q. Okay. Let's start by talking about some of
16 proceed?	16 the testimony.
17 MS. HERNBRODE: In just a moment,	17 CHAIRMAN NOBLE: Okay, now is going to
18 Mr. Chairman. Sorry, I needed a writing utensil.	18 have to have a little interruption. The Chair has
19 CHAIRMAN NOBLE: Okay. Joy.	19 difficulty hearing the witness. Perhaps he's
	1
	, ,
21 CHAIRMAN NOBLE: I heard some comment	amplify Mr. Fuller's voice?
22 that you expect to be through with Mr. Fuller about	(An off-the-record discussion ensued.)
23 3:00 this afternoon. We would appreciate it if you	23 CHAIRMAN NOBLE: Okay, continue.
24 would do your best to be done with him by 11:00 a.m.	24 THE WITNESS: And I'll do my best to
25 MS. HERNBRODE: I was aiming for noon,	25 project towards you.
www.coashandcoash.com Phoenix, AZ	www.coashandcoash.com Phoenix, AZ
Page 3/66	Page 3/68
Page 3466	Page 3468
Page 3466 1 hoping for earlier, Mr. Chairman.	Page 3468 1 COMMISSIONER ALLEN: Please.
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Page 3471 Page 3469 is at Mile 7.1, somewhere in there. when viewed from the sky. 2 COMMISSIONER ALLEN: What about Stillman Q. Win was also asked about channel shifts 3 Lake? during floods and whether those are typical. What do THE WITNESS: Stillman Lake was in you think? 4 5 Segment 0. 5 A. I think possible would be a better word, COMMISSIONER ALLEN: Would you not be rather than typical. I showed in my presentation a 6 7 able to navigate Stillman Lake? series of photographs, historic aerial photographs, THE WITNESS: Yeah, Stillman Lake is a 8 that bracket a number of large floods in Segment 5 down pool. I assume, by the fact that you're asking the near the Fort McDowell Indian Community, where the question, that you've been there. And the pool is river is basically in the same place. It's readily 10 11 about a quarter to a third of a mile long, to my identifiable. 11 12 recollection. It's a couple of feet deep, at the most. 12 I showed USGS maps for all of the segments. 13 You can definitely put a boat in it and the oldest USGS maps that I could find, and in every 13 paddle around in it; but in my opinion, because it's 14 14 case the river position is nearly identical in those 15 isolated by very shallow reaches or reaches that have 15 older maps to its current position. There had been, of 16 other characteristics of nonnavigability, I didn't feel 16 course, some changes locally, but those kinds of 17 like it met the reach of significant length that the 17 changes tend to be relatively minor, and certainly the courts have asked for in defining segments. 18 character of the river hasn't changed from the oldest 18 BY MS. HERNBRODE: 19 19 20 Q. And, Jon, to follow up on that, if you 20 Q. If there were going to be channel shifts, 21 recall, Mr. Burtell read a passage out of Williams' though, they would occur during floods, not at other Guide that was describing Segment 0. Was part of your 22 conclusion based on the fact that Mr. Williams didn't 23 A. That would be typically when they would 23 believe that Segment 0 was particularly navigable? 24 occur, at their greatest rate. 25 A. Well, Mr. Williams doesn't actually make any 25 Q. Win talked about why he felt mean depths were www.coashandcoash.com Phoenix, AZ www.coashandcoash.com Phoenix, AZ Page 3470 Page 3472 opinions about navigability; but he does describe the less helpful in determining navigability. What are boatability, and he also mentions what's been called your thoughts on that? Stillman Lake and the fact that you can paddle around 3 A. Joy, can I go back just one second? in it and actually encourages people to paddle up to 4 4 Q. Yes. the top of that and say this is the point where boating 5 A. I said the river hasn't changed in character, 5 begins. and I would like to clarify. It certainly has changed 6 Up above that, upstream of Stillman Lake, I in character due to the flow depletion in Segment 2. 7 7 think his descriptions of it are pretty accurate. He It's a much smaller wet part of the river than it was 8 8 says it's very steep, it's very rocky, it's not very prior to -- in its ordinary and natural condition. 9 9 wet. And I would concur. It would be very difficult 10 10 And now we can go to the mean depths. So you to get a boat down there without being significantly asked me a question, I believe, is whether the mean 11 depths were a good or a bad way to look at depth. 12 bruised, or your person being significantly bruised. 12 Your boat might survive, and you might not. 13 I think if mean depth is all you have, mean 14 Q. All right. Let's go back to Win here. depth is a good way to look at the depths of the river. 14 Do you remember Win talking about using When you're boating, you don't boat the average depth 15 15 16 Google Maps to look for obstructions on the river? 16 of the channel. You put your boat in the deepest part A. Yeah, I believe Win said something like that, of the channel. That's just plain common sense. 17 17 that's a good way to view the river, and Win and I have 18 So I think maximum depths is the way to look talked about that, and I think it's a good way to view 19 at -- the appropriate way to look at determining the 19 20 the river if you can't be there in person. 20 boatability of a river segment. 21 It's certainly not anywhere close to the 21 Q. And when you say maximum depth, you're not perspective you get from standing with your toe in the talking about judging depth based on the pools; you're 22 22 talking about the deepest part of the shallow places, water, I guess the phrase is we used earlier this week, 23 or sitting in a boat. It's just not as good. There's 24 correct? an entirely different perspective on the water than 25 A. Right. In any given cross-section of the www.coashandcoash.com Phoenix, AZ www.coashandcoash.com Phoenix, AZ

Page 3473 Page 3475 real depths of the river on the Verde are. 1 river, I would be talking about the maximum depth at that cross-section. Clearly there are pools on the 2 Q. Okay. I would like to talk about a couple of Verde River that are probably 20 feet deep. They're 3 things that the historians testified to. In your deeper than I can dive without my scuba equipment. And opinion, when you're looking at historical information. 5 I'm not talking about those depths as being is it more important to pay attention to someone's 6 representative. characterization of the river, i.e., is it navigable or 7 I am talking about when you're looking at a not, or their observations about the river, it's 3 to 8 particular cross-section, what's the deepest point 5 feet deep and flowing slowly or something like that? there. That's where you put your boat. That's what A. Well, I guess I've been doing these studies a determines boatability. long time, and in listening and reading and hearing 10 11 Q. And does mean depth underestimate natural 11 about different observations of someone might have said 12 channels, depth in natural channels? there are navigable streams, there are navigable 12 13 A. It can. If the channel is a perfect 13 streams, it's very difficult to get inside their head rectangle, then the mean depth and the maximum depth 14 and understand what they meant by navigable, what their 15 are the same. There are very few perfect rectangles in definition was. And certainly we've spent many hours 15 nature, and so in most cases there's an offset, and in talking about definitions of navigability and standards 16 16 17 almost every case --17 thereof. 18 Sorry. My wife would like us to know that 18 So I would say it's more important to look 19 her flight reservations have been made. And I've just at, from an expert's perspective and a scientist's 19 turned on my mute. Sorry. perspective, to look at what actual physical 20 20 So in most cases the mean depth is lower than 21 21 measurements they were making, estimates they were 22 the maximum depth; in some cases, significantly. And I 22 making. So if somebody said they thought it was 2 foot 23 had a slide in my presentation that gave a 23 deep, I think that's more relevant than if they were cross-section example of that case. saying it was navigable or nonnavigable. 24 25 Q. You used average depths in the Land 25 Q. Both of the historians talked about www.coashandcoash.com Phoenix, AZ www.coashandcoash.com Phoenix, AZ Page 3474 Page 3476 1 Department report? boosterism. What's your understanding of what 2 A. Yes. boosterism means? 3 Q. And if you had to do it again, what would you 3 A. Yeah, so boosterism is something that we're 4 well aware of if you're studying historical documents. And when we were doing the original studies, we had 5 A. If I had to do it again, with the budget I had at the time, which was pretty challenging, I historians on our team that were certified and 6 probably would end up with the same -- using the same 7 7 qualified historians, and we had these kinds of 8 conversations. It came up in the context of the Santa 9 If I had more time and budget when we did our 9 Cruz River study, in which there were some clearly first round of studies, I would have taken a probe and boosterish articles that talked about the ever-flowing 10 10 measured depths every hundred feet down the entire Santa Cruz River and lakes on the Santa Cruz and 11 river and reported that. 12 sailing on the Santa Cruz that were more than just 13 Q. We're still using the depth calculations and fanciful. They were probably closer to land fraud. 13 14 the rating curves you developed for the 1993 study, is And so we were well aware of that. So 14 that -boosterism is kind of trying to promote your community, 15 15 16 A. Yes, yes. So we had that data. I didn't 16 say a little more than is really there and describing feel like it was fair to abandon that data. But we've in a way that makes it sound bigger, more enticing than 17 17 certainly supplemented it with the detailed fieldwork it is, as a way to get people to come and move here and 18 18 and estimates that we've been able to make, as well as make investments in your community. information that other folks have come to. 20 Q. And I think you found us an example of what 20 For instance, Dr. Mussetter did some modeling you think of as boosterism, and it's Page 15 of the 21 slides that were provided or it will be up here on the 22 of a couple of reaches, and able to look at that, and that depicts some maximum depths and that shows how the screen. 23 means are different. So we've been able to supplement 24 A. Slides? Sorry. that and I think give a better depiction of what the 25 O. It's in there too. www.coashandcoash.com Phoenix, AZ www.coashandcoash.com Phoenix, AZ

Page 3477 Page 3479 1 A. So this is from the Arizona Republican back 1 modifications to Bob's Slide No. 4, can you explain the in July of I believe it's 1891. differences in opinion here? 3 And I think you're all struggling to read 3 A. You're talking about this slide right here? that, so let's hopefully skip down. 4 Q. Yeah. 4 CHAIRMAN NOBLE: Could you please 5 A. All right. So this was in Dr. Mussetter's 5 6 proceed? presentation. It's certainly a slide we've seen before THE WITNESS: Yes. 7 and we've seen in the literature. It's commonly used. So it's an article that describes the There's a couple of things I would like to point out 8 prosperity of Tempe and talks about what a beautiful, besides the typo that says "Gila River" instead of wonderful place it is and the streets lined with wagons Verde River. 10 full of the golden produce or the amber crops, Is that this really isn't a slide about 11 et cetera, et cetera, et cetera. And you can all, at 12 12 navigability. This is a slide about channel pattern, your leisure, take a look at this article. 13 13 and it does have three categories; Straight, 14 I believe I actually have -- for some 14 Meandering, and Braided. When asked about where the 15 reason my screen --Verde sits, I believe the answer that I recall was in 15 CHAIRMAN NOBLE: Joy, is this something the 3, possibly 4 category, which, when you highlight 16 that wasn't previously presented? the limits of the little -- what do you call that sign 17 17 MS. HERNBRODE: It was not previously 18 18 there that's on there? If you highlight this area that 19 presented. It is now in evidence as X083, and we are 19 sits in that --looking at Page 15, and there's a blowup on Page 15 and 20 O. Blue. 20 the entire article on Page 16. 21 A. -- meandering area, the channel sits up here, CHAIRMAN NOBLE: Thank you very much. which is what I've been saying. It's more meandering 22 22 23 THE WITNESS: And I understand from the 23 than it is braided. 24 chair you would like us to move on. Braided is down here, and I showed you 24 25 CHAIRMAN NOBLE: Very quickly. pictures, and I'll say again and I'll say as many times Phoenix, AZ www.coashandcoash.com www.coashandcoash.com Phoenix, AZ Page 3478 Page 3480 THE WITNESS: Thank you. as I'm asked, the Verde River does not look like this. BY MS. HERNBRODE: It looks like this, and it's in the meandering 3 Q. All right. Do you see anything about the Day category. 3 4 brothers' account that makes you feel it's a boosterism CHAIRMAN NOBLE: Mr. Fuller, is that 4 article? 5 5 what you previously testified to? 6 A. I do not. 6 THE WITNESS: Yes, it is. 7 CHAIRMAN NOBLE: Why are we revisiting 7 Q. It's published in the Yuma paper? 8 A. It's published in the Yuma paper. There is 8 this? some language and use of adjectives that you wouldn't 9 THE WITNESS: Because it's rebutting typically find in today's paper, but it's clearly a testimony from Dr. Mussetter. 10 11 factual-type article, an account of something that they CHAIRMAN NOBLE: Did you previously 11 believe happened. 12 testify about it? 13 Q. Is it difficult to evaluate historical THE WITNESS: Yes. 13 14 information if the information an expert relies on 14 CHAIRMAN NOBLE: Thank you. The 15 isn't in the record? 15 Commission heard it the first time. 16 A. Yes. 16 MS. HERNBRODE: Sorry, Mr. Chairman. 17 O. Okay, look let's move on to Dr. Mussetter's 17 BY MS. HERNBRODE: slides, which are Exhibit X060 is the original, and 18 Q. Okay, let's move on to Bob's Slide 61, which then you have some changes you made, some illustrations is Page 2 in X083. 19 19 20 vou did. 20 There was a lot of discussion about where the 21 Verde falls on this. Can you explain the differences There was a huge discussion with both Win and 21 Bob regarding the bankfull concept and whether the in opinion and where you think the Verde falls on this? 22 22 23 A. Yes. Let's say where the Verde lies here, so 23 lower Verde was likely to be sinuous or braided? 24 A. Yes. we don't get confused about Verde Falls. And the 25 Q. So looking at X083, Page 1, which are your 25 reason we're including this is because the www.coashandcoash.com Phoenix, AZ www.coashandcoash.com Phoenix, AZ

Page 3481 Page 3483 Commissioners had a number of questions on this 1 depths here? particular category, and I think this clears up a lot 2 A. Do you want to talk about the impacts of the 3 of the questions and discussion. reservoir, or do you want to talk about this map here? There was discussion about Win saying 4 Q. Well, since I asked you about the reservoir, 4 bankfull discharges were in this range, but typically let's go there first, and then we'll circle back. geomorphologists will tell you that bankfull discharges 6 6 Sorry. 7 are somewhere between a 1.5-year event up to 7 A. There was a discussion --8 potentially a 10-year event. 8 Q. We're at Page 11 now. So if we take that at face value, I've added 9 A. Page 11. This is Dr. Mussetter's Slide 73, 9 some information. Bob's slide was this information. I 10 about whether there was any influence of the reservoir 10 added this blue box and this blue arrow. The two-year on the channel at the Tangle Creek gage. 11 11 discharge at Clarkdale is about 6,600 cfs, and at And I would just like to clarify with Bob, in 12 Tangle Creek it's about 61,000 cfs. That's in this 13 his discussion about effective discharge and when 13 range represented by the arrow. And if you're looking 1.4 sediment's moving and whatnot, and that the reservoir, at those kind of bankfull discharges, the two to you can only have -- the reservoir can only have an 15 15 16 ten-year, it clearly does plot in the braided category. 16 effect on the Tangle Creek site when it was up that 17 So we would expect, between a two and a ten-year 17 high. discharge, the river to be braided. 18 18 And I would just like to point out that the 19 That is not, however, within the range of the 19 top of the spillway gates, as shown right here for the ordinary and natural flows by any expert's opinion on dam, the reservoir for Horseshoe, is at 2026, which 20 20 the Verde River. The ordinary flows are in this range falls in the middle of Site No. 1. Well, a little bit right down in here, and those flows at that flow rate 22 above Site No. 1, the cross-sections. And the maximum 22 water surface is well above that. Spillway crest is 23 predict strongly in the meandering category, which is 23 completely consistent with the testimony I originally 24 quite a bit lower. gave; that the river has a compound channel with a 25 So it's entirely possible that when that 25 www.coashandcoash.com Phoenix, AZ www.coashandcoash.com Phoenix, AZ Page 3482 Page 3484 1 meandering, generally sinuous single channel, and at reservoir is full, sediment will start to form a small flood stages it has a braided channel. delta, which you see this illustrating this process. 3 Q. Okay. Can you tell how deep a river is from When the reservoir is full, you dump sediment at the 4 the air? upstream end, and that clearly looks what's happening. 5 A. Not very well. I think Bob made a nice presentation that showed that 6 Q. So does it hold true that you can't tell that had occurred episodically, and it was coincident 7 depth from any of the aerial photos? with the time when there had been large 8 A. Places where you can see depth is where if reservoir-filling floods, and so it's very likely. 8 you see a rock sticking out, you know the rock is 9 Q. So --10 sticking out and it's not deep there at all. 10 A. So having said that, I believe that there has On the Verde River, because of the character been an impact. Joy, you want to interrupt me. 11 12 Q. I just want to say what you're talking about 12 of the water, you don't really see more than 6 inches into the -- anything that's 6 inches down or below 13 is Page 12 of X083. 14 you're really not going to pick up from the air. 14 A. Thank you. 15 Q. Let's talk a little bit about Site 1, the So my reading of the record is that it's 15 entirely possible that there has been an impact from 16 Tangle Creek site. This would be Page 5 in the X083. 16 17 Okay, so there was some discussion about 17 the reservoir at that site. 18 whether or not the effects of the dam had any impact on 18 Having said that, I would agree with Bob that 19 this site. It's above, is it Horseshoe Dam; is that the channel downstream of that impact point, which 19 20 correct? 20 occurs basically at the gage itself that Win was 21 A. Horseshoe Dam is the upstream. Horseshoe 21 talking about, the channel downstream of there bears 22 Reservoir is the upstream reservoir, yes. characteristics that are very similar to the rest of 22 23 Q. And this is in Segment -the river, and I don't know that the morphology of the 23 24 A. This is in Segment 4. channel has been impacted that much downstream of this 24 25 Q. You had some concerns about the modeled 25 point right by the gage. www.coashandcoash.com Phoenix, AZ www.coashandcoash.com Phoenix, AZ

Page 3485 Page 3487 1 Q. And you've boated this area? the GLO data and Mr. Burtell's checks that he had done 2 A. I have boated it. on some GLO estimates of flow depth and width, which is 2 3 O. Would it have been more boatable absent any a perfectly reasonable thing to do. It's something I 3 4 impacts by the dam? would do myself. 5 A. There's something odd that's gone on right at But one thing you need to know is the 5 the gage there that's created a little pool with a 6 6 velocity is not constant across the river, and that's 7 three-side overflows that go into a narrow channel, and what you discover when you're a boater. There is a 8 that's a little trickier to boat than I think most of 8 portion of the channel that has current and portions of the rest of the river is. And I think that's probably the channel that sometimes have very little current and 9 due to these very rare, but episodic, and somewhat sometimes there are eddies where the current's actually 10 10 significant at the gage here. going in the upstream direction. And so a much smaller 11 11 And I really don't want to talk more about it segment of the width of a channel has velocity than the 12 12 entire width of the channel. And you see that in this than that, so... 13 13 14 O. Okay. And you did take a video of boating 14 through this area. In the interest of time, we'll be 15 Q. All right. Let's go back to the Slide 5 or 15 16 submitting that, rather than playing it today. 16 Page 5. You had some concerns about the modeled depths 17 CHAIRMAN NOBLE: Thank you. 17 BY MS. HERNBRODE: 18 A. There's a couple of things I would like to 18 19 Q. And you also boated back upstream through point out about these profiles that Bob did. And, 19 this site? 20 again, we do modeling, and this is typically the kind 20 21 A. I did, so... 21 of thing that you see. 22 And I did that for the reason of it's really 22 So there's a couple -- if you look at the 23 interesting to look at computer model results. They 23 diagram here, I want you to view this in its proper 24 inform on lots of things. We do a lot of computer 24 context. So, one, this is the modeling reach. This is modeling ourselves, in our firm, myself. I've done the reach that I paddled through. And what's shown on 25 25 Phoenix, AZ Phoenix, AZ www.coashandcoash.com www.coashandcoash.com Page 3486 Page 3488 1 tons and tons of modeling. this diagram is the channel bed elevations for But it's a very different perspective what cross-sections that were surveyed and then I believe you get out of a computer than what you see in the real interpolated from some kind of aerial mapping. And 3 world when you are sitting in the seat of a boat. So I this blue and the reddish line are the computed 4 thought I would go out to Dr. Mussetter's Site 1, since water-surface profiles, and there's a really good 5 it's somewhat easy to get to, and paddle on through it. match. These dots are actually the measured 7 And I have a GoPro video that shows myself paddling 7 water-surface elevations from the field, and there's through it in one of my solo canoes, and it's an easy pretty good correlation between those, until you get up 8 8 into this upper riffle reach right up in here near the 9 paddle. 9 Went on through. I got down to the bottom, 10 top of his Site No. 1, and you can see in some places 10 and I brought the particular canoe that I brought these are off by nearly a foot in some places. 11 11 So when we're talking about making estimates because it's easy to carry, easier to carry, and I had 12 12 about a mile walk back upstream. When I got to the 13 of depth and we're saying, well, it's 1.7 or 1.3, bottom, I realized I could paddle back upstream. The knowing that we missed the prediction by almost a foot, 14 14 you need to view those estimates in that context. 15 current's not that swift. And so I did. I paddled 15 back upstream. I got to the riffles, and I will tell 16 The other thing is that Bob picked out three 16 17 you right now in advance that I tried to paddle through 17 of the shallower points, and I understand why he did 18 the riffles, and if I had had a poling boat, I probably 18 that, and as Rich pointed out the last couple of days, could do it, or maybe bigger shoulders; but I did not, their theory is that these limiting points are what 19 19 so I stopped, I dragged my boat to the edge of the 20 20 dictate whether streams are boatable or not. riffle, and kept on paddling up through the areas of 21 But I would advance to you and ask for your 21 less current. 22 consideration that that's not a very reasonable 22 And one of the reasons I bring that up is depiction of the average depth of this reach, and this 23 23 because we also had a discussion about what the typical reach was chosen for its characteristics of having 24 24 velocity of the Verde River is, in discussing some of 25 multiple riffles. www.coashandcoash.com Phoenix, AZ www.coashandcoash.com Phoenix, AZ

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Page 3489 Page 3491 So we have maximum depths at Section 2 of 1 Q. And this would be Page 7? 2.4, 2.6. At Section 4 and at Section 5 it's 3.3. If 2 A. Page 7. 2 I take all of the maximums for all of the sections that 3 So I looked at that just for the sake of were modeled, the average for the reach is 3.9 feet, making a comparison what the -- rather than the 296 and this is at 296 cfs. that Bob was modeling for whatever science he was doing 5 6 If Bob had submitted his RAS model, I could 6 for that study to the discharge that we've been 7 have rerun it for the median flow rate, but this is a 7 considering lately for navigability. decent flow rate to use. And, actually, the day I was 8 Q. Okay. 8 out there canoeing it happened to be at 294, so the 9 A. But, again, those are averages, not maximum? video is a very good perspective on what this feels 10 Q. And there were some questions about the 10 like on the river. aerials that were shown in Bob's PowerPoint, which is 11 12 So then the next thing to think about in the X060, Pages 39 to 41. 13 information that was presented was what was actually 13 A. And this is something on the disc you gave presented to us was this rating curve, and that uses 14 me? 15 Q. No. 15 the average depths, not the maximum depths. 16 Q. And, Jon, you've moved on to Page 6? 16 A. This is one of mine here? 17 A. This is Bob's Slide No. 35 and my page No. 6 17 Q. Well, no, this would be out of Bob's PowerPoint. Do you not have it? for whatever this exhibit number is. 19 So I've put the average depths down here, but 19 A. I do. then also the maximum depths. So at Cross-section 2, 20 O. Okav. 20 the average depth at 296 cfs is 2.05 and maximum is 21 A. What Page? 2.4; and, again, you see these differences of a half 22 Q. 39. 22 23 foot or sometimes double the difference. 23 COMMISSIONER HORTON: Mr. Chairman, I 24 So this is why the maximum depth, to me, is a 24 wanted to ask a question. CHAIRMAN NOBLE: Please do. Let 25 much better read on the depth than the average depth, 25 Phoenix, AZ Phoenix, AZ www.coashandcoash.com www.coashandcoash.com Page 3490 Page 3492 1 because in putting a small boat on the river, you're Mr. Fuller find where he wants to go first, and then 2 very close to the maximum depth if you at all have any you can ask a question. Are you ready, Jon? kind of talent as a boater. 3 4 THE WITNESS: Sure. I'm readv. 4 Q. There's a question. COMMISSIONER ALLEN: In regard to COMMISSIONER HORTON: It must have 5 5 passed me by. What is thalweg? Weg just means trail Page 5, the depths that you're recording on here, these 6 are the depths of the river in the thalweg, is that 7 or way in German. 7 what this represents? THE WITNESS: Ah, yes. So in German 8 8 9 THE WITNESS: Yes, because the blue line 9 it's thalweg, actually. I remember a really nasty is the water surface, and the dark line here at the argument between two experts. 10 bottom is the thalweg or the minimum elevation of the COMMISSIONER HORTON: Das vichte. 11 11 THE WITNESS: It's the deepest part of 12 bed. 12 COMMISSIONER ALLEN: Okay. Thank you. the channel. So if you take the water down to its last 13 13 drop, that's where you'll find it. BY MS. HERNBRODE: 14 14 COMMISSIONER HORTON: Okay. 15 Q. Did you have another -- do you want to go to 15 16 Slide 7? BY MS. HERNBRODE: 16 17 A. You see the same pattern in the other Sites 2 17 Q. But is the deepest part of a side-to-side and 3, but I don't think there's any need to beat that slice of the channel, not a length slice? 19 A. The thalweg is a line that connects the horse. 19 20 Q. Okay. deepest parts of all the channels. I guess that would 21 A. We can look, however, if you would like, at 21 be a better way of saying it, all the cross-sections. 22 Q. Okay. All right. There were some questions 22 the average depth at the corrected or the ordinary and natural median flow rate, which I believe is 440 cfs, 23 about these aerials. 23 24 A. Yes. I believe Commissioner Allen was asking and it basically also moves those depths up above at those three cross-sections. about these dates, so I looked them up. If you're www.coashandcoash.com Phoenix, AZ www.coashandcoash.com Phoenix, AZ

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-	interested in the Fairchild Series, you can actually go	1	reports back in the early '90s, that was one of the
1	to the University of California-Santa Barbara Library	2	
2	Collection has these online now. These are February	3	
3	1934, and I believe the average discharge for that	4	
4	month was 269 cfs. And this is Photo Series C-2920.	5	
5	There was a flood in 1932, which was two	6	whether you're talking about steamboats or keel boats
7	years prior, of 53,000. So we're seeing some marks of	7	
ſ	a fairly large flood a couple of years prior. This is	8	
8	fairly close to baseflow in this photo. So I just	_	Q. And in all of the other navigability
9	thought I would answer those questions for you.	10	
10 11	COMMISSIONER ALLEN: Thank you.	11	
12	BY MS. HERNBRODE:		A. Yes. Some States refer to it as the
		13	
13	Sites 2 and 3 as well?	14	
14	A. Yes.	15	
	Q. Any problems there?	16	·
16	A. It's a little strainery downstream of the	17	
18	dams because of the impact of floods that others have	18	
19	talked about and correctly depicted.	19	and I think most of the other oh, I'm sorry.
20	Q. And do you think that it would be more	20	<u> </u>
21	boatable absent the dams, or less?	21	
1	A. Yes. I think it would clean out a lot of the	22	·
23	strainers and create a more natural channel that you	23	
24	see similar upstream of the dams in Segment 4. Well, I	24	-
25	believe, Segment 4 would be cohesive in terms of its	25	
23	believe, beginning a would be concaive in terms of its	23	bouts, and that would morade canoes and nationals.
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	Page 349	1	Page 3496
1	•		· ·
1 2	characteristics, as I have characterized it, and that	1	That's what we see were successfully used in the
2	characteristics, as I have characterized it, and that would go down to Needle Rock, which is basically where	1 2	That's what we see were successfully used in the historic period. I don't think you could make a
2	characteristics, as I have characterized it, and that would go down to Needle Rock, which is basically where the river comes out of the canyon and enters the valley	1 2 3	That's what we see were successfully used in the historic period. I don't think you could make a nonsmirking argument that steamboats could be used in
2 3 4	characteristics, as I have characterized it, and that would go down to Needle Rock, which is basically where the river comes out of the canyon and enters the valley upstream of the Rio Verde and what's now Rio Verde	1 2 3 4	That's what we see were successfully used in the historic period. I don't think you could make a nonsmirking argument that steamboats could be used in Segment 3.
2 3 4 5	characteristics, as I have characterized it, and that would go down to Needle Rock, which is basically where the river comes out of the canyon and enters the valley upstream of the Rio Verde and what's now Rio Verde and Fort McDowell. And that's why I chose to change	1 2 3	That's what we see were successfully used in the historic period. I don't think you could make a nonsmirking argument that steamboats could be used in Segment 3. CHAIRMAN NOBLE: Oh, Jon, come on.
2 3 4 5 6	characteristics, as I have characterized it, and that would go down to Needle Rock, which is basically where the river comes out of the canyon and enters the valley upstream of the Rio Verde and what's now Rio Verde and Fort McDowell. And that's why I chose to change the segments there. Since we're looking at the	1 2 3 4 5	That's what we see were successfully used in the historic period. I don't think you could make a nonsmirking argument that steamboats could be used in Segment 3. CHAIRMAN NOBLE: Oh, Jon, come on. THE WITNESS: The gentleman from the
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2 3 4 5 6 7 8	characteristics, as I have characterized it, and that would go down to Needle Rock, which is basically where the river comes out of the canyon and enters the valley upstream of the Rio Verde and what's now Rio Verde and Fort McDowell. And that's why I chose to change the segments there. Since we're looking at the ordinary and natural condition, it didn't make sense to make the break at a manmade feature.	1 2 3 4 5	That's what we see were successfully used in the historic period. I don't think you could make a nonsmirking argument that steamboats could be used in Segment 3. CHAIRMAN NOBLE: Oh, Jon, come on. THE WITNESS: The gentleman from the Apache Tribe seemed to think they could be used in Segment 2, but we don't have any historical examples of
2 3 4 5 6 7 8 9	characteristics, as I have characterized it, and that would go down to Needle Rock, which is basically where the river comes out of the canyon and enters the valley upstream of the Rio Verde and what's now Rio Verde and Fort McDowell. And that's why I chose to change the segments there. Since we're looking at the ordinary and natural condition, it didn't make sense to make the break at a manmade feature. Q. Are there any other I know we had a bunch	1 2 3 4 5 6 7 8	That's what we see were successfully used in the historic period. I don't think you could make a nonsmirking argument that steamboats could be used in Segment 3. CHAIRMAN NOBLE: Oh, Jon, come on. THE WITNESS: The gentleman from the Apache Tribe seemed to think they could be used in Segment 2, but we don't have any historical examples of that.
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Page 3497 Page 3499 THE WITNESS: Is that a good thing or a boating accounts, right? 1 bad thing? I was thinking about going home. 2 2 A. Well, I listed them in my accounts of CHAIRMAN NOBLE: For you it's a good 3 boating, but when I summed up my this is the number of times people went down the river, I did not use the 4 thing. BY MS. HERNBRODE: 5 5 ferries. 6 Q. Okay. So I think you answered this, but I'm 6 But I think that it's important to think not confident. So why did you change your 7 about ferries because it tells you some things. It segmentation? We changed both at the top and the tells you that the river was deep enough that somebody bottom; is that true? decided that it would be better to be in a boat than 9 10 A. I already answered the bottom, so I'm not trying to wade it or to wait it, to wait it out; but 10 11 going back to that. 11 they needed some kind of a vessel to get across. 12 Q. Thank you. 12 And in the case of some ferries in some 13 A. The top, I decided to break Segment 1 into a 13 places, those are significantly sized boats that carried thousands of pounds. On the Verde it's not the Segment 0, and then I further segmented it to the 0-A 14 15 and 0-B. And I thought long and hard about this. 15 case. They were small boats. They were carrying mail Navigability is not an easy decision to make in some couriers and small amounts of supplies in the case of 16 cases, and in the upper part of the Verde I thought the Camp Verde/Fort Verde ferry. 17 17 long and hard. The boating guides talk about being 18 But it does tell you that there's a condition able to start to boat at the top of the lake that there that makes it more pleasant to be in a boat than 19 19 Commissioner Allen asked me about. So I think above it is to be trying to wade it. And I think that's 20 20 21 that it was an easy decision, so I called that 21 significant, particularly for the susceptibility 22 Segment 0-A. 22 argument. 23 Q. Do you see any reason to disregard a boating 23 0-B was a little tougher decision. I had read Williams and, as I testified, I went out and account if the people who were in the boat were 24 24 boated it for the first time in, I believe it was, 25 hunting? www.coashandcoash.com Phoenix, AZ www.coashandcoash.com Phoenix, AZ Page 3498 Page 3500 October down to Forest Road 638. And I found it to be 1 A. No. much easier to paddle through there than what Williams 2 Q. Could they have been hunting for a commercial describes and what I had heard from other boaters. 3 purpose? 4 A. They could have been. Could have been 4 I expected to have to drag my boat for a putting food on their table, if you use Rich's words. quarter mile at a time. And, basically, I dragged my 5 boat for a couple hundred yards from the confluence of 6 Q. And does a couple of guys with a couple 6 Granite Creek and said, "Oh, I can paddle that," jumped hundred pounds of camping gear or hunting gear, is that 7 8 in and paddled, and I paddled the rest of the way down any different than a couple of guys with a couple of 9 to Forest Road 638, so... hundred pounds of commercial goods? And yet there were characteristics in that 10 A. The material is different, but the weight, 10 11 reach that I felt were not conducive to navigability, weight is weight, whether that's a fat guy or whether 12 and so I could not, in good conscience, advance that. 12 it's a big sack of something else. And so I talked to the State, and we changed the 13 Q. And the way it would float down the river is 13 segmentation and went forward from there. 14 the same? 14 15 Q. In the difference between the old boundaries 15 A. Yes, if the weight is the same. 16 Q. Do you understand Mr. Dimock's testimony to 16 between Segments 4 and 5 and the new one, does that move any major rapids or other obstructions into a indicate the Verde wasn't navigable? 17 different segment? 18 A. No. Quite the contrary. 18 19 Q. Do you understand him to say that no one 19 A. Well, I don't know that there are any 20 significant obstructions in Segment 4 at all, and there built boats for the Verde? 20 are no significant rapids that we know of downstream of CHAIRMAN NOBLE: Excuse me, Joy. 21 Bob's Site No. 1, so that would include the reservoir 22 MS. HERNBRODE: Okay. 22 CHAIRMAN NOBLE: Better get off that one reach. 23 23 24 Q. Rich thinks ferry crossings should be 24 disregarded. You didn't count ferry accounts as 25 MS. HERNBRODE: All right. That was my Phoenix, AZ www.coashandcoash.com Phoenix, AZ www.coashandcoash.com

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1	last question for that one, but we'll skip it.	1	A. Yes.
2	BY MS. HERNBRODE:	2	
3		3	A. Went from the 260 bridge or the White Bridge
4	purpose historically?	4	down to Beasley Flat, about 10 miles, took me an hour
į	A. No.	5	to
6		6	CHAIRMAN NOBLE: Joy, would that be
	A. Even today.	7	considered new testimony?
8		8	MS. HERNBRODE: Possibly.
9	during the race last weekend?	9	THE WITNESS: I've done it before.
1	A. I did the but I keep forgetting the name	10	
11	of this race. But, yes, I went up and did it on	11	record to reflect that, that you've brought in new
12	Saturday. And as I was paddling along, in the misery	12	testimony after your direct.
13	of trying to catch up to this guy with a kayak paddle,	13	BY MS. HERNBRODE;
14	in a canoe, I went past two people in an aluminum Jon		Q. Were you concerned about the lack of log
15	boat, a flat-bottomed boat, loaded to the gills and	15	floats on the Verde to demonstrate navigability?
16	over the gunnels, probably 2 feet over the gunnels with	16	
17	gear, woman sitting on top of the gear, and on top of	17	kind of understand why there's not log floats. Until
18	that was a little dog carrier cage with a dog in it.	18	people start building houses out of saguaros, which is
19	And this is at 123 cfs.	19	what the vegetation lining the canyon walls of most of
20	And as I paddled by, I said, "How far are you	20	the Verde River, and there's some Juniper and pinion up
21	going?"	21	high, but it's not really a log-heavy, rich watershed.
22	And they said, "All the way."	22	Also, the fact that as soon as humans were
23	And I said, "All the way to the Salt?"	23	there, they had irrigation dams across the river. So
24	And he said, "All the way to the Salt."	24	you really shouldn't have to spend much time wondering
25	Don't know if he's made it yet. I doubt it,	25	why people weren't trying to float logs. It would take
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	•		
1		1	5 ,
2	Later that day I went down to the Camp Verde	2	logs to be floated.
3	gage, which is downstream of Beasley below The Falls,	3	
4	and I was looking for some depths in the pools there	4	→
5	and at the control section. And as I was standing in	5	navigability, despite the fact it's used for modern
6	the water, a rubber raft came through. They had eight	6	recreational boating.
7	people operating as a paddle raft, and they went	7	ž į
8	through just fine. They were having a pleasant time. They were going down to Gap Creek, which is a little	8	not advocate for navigability on the Black? A. The shortest answer is
9	eight-mile run through the whitewater reach. And,	10	
10 11	again, this is at 123 cfs.	11	about that before.
12	And I bring that up because if you read the	12	MS. HERNBRODE; We did not. We did not.
13	boating guides and you rely solely on the boating	13	CHAIRMAN NOBLE: You did not?
14	guides, they tell you things like you can't raft it	14	
15	below 700 cfs or they have different rates for	15	
16	different boating guides, and this was 123 cfs and	16	THE WITNESS: The shortest answer is
17	these people were having a great time.	17	that the existence of recreational boating was not the
18	So there's the perspective on the river of	18	sole criteria that we used in determining whether to
19	the boater, and there's the perspective of what the	19	make a case of navigability or not. That's simply not
20	books tell you. And I told you this story of my	20	the case.
21	research work in graduate school when the Forest	21	
1		22	
22	Service said you can't boat that river, and every day		
22	Service said you can't boat that river, and every day we were on it and boats went by us.	23	
	we were on it and boats went by us.		season, depending on snowmelt?
23	we were on it and boats went by us.	23	season, depending on snowmelt?

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1	boating; and when it is boatable, it's a very difficult	1 thinking about, well, I crossed it here, I crossed it
2	river to boat. There's lots of Class III's and IV	2 there. Yeah, it's been about 2 feet, I would say. Was
3	rapids. It's very tortuous, lots of rocks, and it's a	3 it always 2 feet? Of course, not. Was it any ever
4	very small river.	4 deeper than 2 feet? Probably. Was it shallower than
5	Q. No history of historic boating?	5 2 feet? Could have been.
	A. We had no history of historic boating. It	6 So I took it as a general
7	was one of the ones that we went through in the small	7 characterization of the river in that area during the
8	and minor watercourse screening process, and it did not	8 period of their observation.
9	reach to the Level 4, as I recall.	9 COMMISSIONER ALLEN: Thanks.
1	Q. Let's talk a moment about GLO surveys.	10 BY MS. HERNBRODE:
11	Are GLO surveys a reliable source of depth	11 Q. Does the video of you crossing a beaver
12	information?	12 dam
	A. The question was are they a reliable source	13 MS. HERNBRODE: This is the only
14	of information?	14 question I have for this video, Mr. Chairman.
	Q. Yes.	15 BY MS. HERNBRODE:
L L	A. Oh, absolutely, yes.	16 Q. Of you crossing a beaver dam in your canoe,
	Q. About depth?	17 was that an adventure?
- 1	A. They're as reliable as probably any other	18 A. No.
19	historical document that describes the depth of the	I need to say one more thing about that. The
20	rivers. Those are folks that were out there and had	20 only difficult part about crossing that beaver dam was
21	some training in what they were doing; I would assume	21 the fact that there was a riffle immediately
22	some part of their survey crew did. And, yeah, they	downstream, and getting into your boat in a riffle is
23	were on the river. They were in the field. They made	23 just a little bit delicate.
24	observations. As Rich pointed out, what exactly they	24 Q. Can you pull up the Geolobo blog that
25	meant by depth, you know, we can discuss and talk	25 Mr. Burtell talked about yesterday and that has just
	www.coashandcoash.com Phoenix, AZ	www.coashandcoash.com Phoenix, AZ
	Page 3506	Page 3508
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1	about; but it is an observation. It's certainly a data	1 been entered into the record as X084?
2	about; but it is an observation. It's certainly a data point to be considered.	been entered into the record as X084?A. The GLO what?
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Page 3509 Page 3511 1 Q. And the one above it? and braiding on the GLO surveys if they had observed 2 A. No, ma'am; easy peasy. those conditions? 2 3 Q. And are those likely in Segment 0? 3 A. They put them in places on the Gila River on 4 A. I don't exactly know where they are, but the GLO maps. looking at the terrain, that's where they look like to 5 O. There was a lot of discussion about the difference between how Win calculated his depths and 6 7 And, in fact, when I paddled Segment 0, there 7 how Rich calculated his depths. We, in fact, spent 8 were beaver dams there. hours on that issue. O. Okay. 9 9 Does the Commission really need to figure out MS. HERNBRODE: Mr. Chairman, I'm afraid 10 10 who is correct? 11 I need a clarification. You have just indicated that 11 A. No. They should use my depths. you are not interested in hearing any evidence that was 12 O. And why is that? not in the record prior to -- or references to things 13 A. Well, certainly I'll speak for the depths 13 that have happened since his last testimony? 14 that I put in there. The depths that I put in there 15 CHAIRMAN NOBLE: If you are going to are averages, so they are lower than the maximum. And 15 16 have Mr. Fuller introduce new evidence or bring in new 16 I will say from the perspective of having boated the 17 experiences that have occurred since he originally entire river, they significantly underestimate what you 17 testified in this case, in the Verde, we're going to see when you go out there. The river is deeper than 18 18 have some -- not a lack of interest. We're going to 19 what is shown in those rating curves. I think you get 19 have difficulty with that, simply because we're not that consistently from all of the people who have 20 20 sure we understand how it fits within proper rebuttal. actually boated and put their toes in the water. MS. HERNBRODE: Okay. 22 Q. It's boatable now? 22 23 CHAIRMAN NOBLE: And if it is not 23 A. I'm being concise. 24 something that was already in the record and it was 24 Q. It's boatable now? deemed necessary to go out and find it and it hasn't 25 A. Yes, it is. www.coashandcoash.com Phoenix, AZ www.coashandcoash.com Phoenix, AZ Page 3510 Page 3512 already been presented to the other parties, then we're 1 Q. Why didn't you do a flow reconstruction? going to have some problems with that. 2 A. I don't believe the Court instructs us and MS. HERNBRODE: Okay. says you have to do a flow reconstruction. It says you 3 CHAIRMAN NOBLE: And, Joy, just to need to consider the river in its ordinary and natural 4 help out here, going back and having Mr. Fuller repeat condition and its flow rate. I did do that 5 5 his previous testimony or referring to previous consideration. 7 exhibits that he has already discussed and saying "I 7 It's painfully obvious to anybody with meant what I said," that doesn't help us a whole lot 8 expertise in hydrology that if you take water out of 8 either. 9 9 the river -- and perhaps those who don't even have any 10 MS. HERNBRODE: I had gotten that one 10 expertise in hydrology and just have a dose of common loud and clear, Mr. Chairman. sense. If you take water out of the river, there's 11 11 going to less of it in the river. So if you can boat CHAIRMAN NOBLE: Okay. 12 12 MS. HERNBRODE: So I'm trying to -it now with the water that's there now, if you put more 13 13 that's why I'm skipping a little bit here. in it, you can still boat it. 14 14 15 BY MS. HERNBRODE: 15 Q. There was a question raised about how you 16 Q. Do you believe that if there were marshes in measured pool and riffle distances. How did you do it? 17 the Camp Verde area, those were on the main stem of the 17 A. Used GIS software myself. I did the 18 Verde? 18 calculations. I looked at aerial photographs. I 19 A. I believe that they were along the main stem 19 looked at the Williams Guide. I looked at other of the Verde. In looking at the GLO survey notes, they boating guides. Marked out the extent of each rapid, don't record any of that kind of information. So my 21 the beginning and end, and I was fairly generous in suspicion is that there was a clear channel of some ilk 22 those marks. Most riffle sequences have small pools or along the middle, albeit there may have been a lot more 23 sometimes larger pools in the riffle sequence. 23 slues and whatnot along the side. I incorporated all those distances as part of 24 the riffle distance, so I probably have more rapid 25 Q. And you would have expected to see marshes www.coashandcoash.com Phoenix, AZ www.coashandcoash.com Phoenix, AZ

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1	length than I've been saying riffle; I should say	1 think I'm actually not quite sure what you asked.
1 2	rapids in those calculations. Added them up and	think I'm actually not quite sure what you asked.But you're asking me about mean and median discharges
3	did the math.	3 in the state of Washington?
4	Q. And those marks of how long the rapids are	4 Q. I'm asking you if you think it would be
5	are included on the maps that were provided to the	5 appropriate to take a study from Washington that says
6	Commission?	6 you need to look at average flows and, instead, look at
1	A. Yes, they are. And I should also say that I	7 mean flows?
8	sat down with Don Farmer after I had did those, and we	8 A. Oh, yeah.
وا	kind of went through them and said, "What do you think,	9 MR. HOOD: You mean median flows.
10	what do you think, what do you think?"	10 BY MS. HERNBRODE:
11	And he concurred, and he has much more	11 Q. Median. Sorry. Thank you.
12	experience paddling the river than I do.	12 A. Well, if you were intending to use the
13	Q. Can you give me an estimate of how long it	Washington study outside of the state of Washington, I
14	would take for the river to rise after a rainfall on	14 think at first brush, you should use the methodology as
15	the Verde?	15 they proposed it.
16	A. Oh, you would have a response in some parts	I teach a number of hydrology classes, and
17	within a day or within hours in some places. If you're	17 it's a question that comes up frequently in those
18	asking me how long would it take a hydrograph to move	18 classes, is, hey, we've got a different data set to put
19	from the top to the bottom, it's going to depend on a	19 in this particular methodology. And my recommendation
20	number of factors, which Rich went through, but	20 is to always use the data set and the procedures that
21	primarily on the size of the storm.	21 come with the methodology.
22	So in a large storm I would say you're	Once you start tweaking with it, until you
23	looking at about two days to get from Camp Verde down	know the outcomes of those tweaks, it's kind of
24	to the Salt River confluence. For smaller events	24 dangerous. So I would suggest if the State of
25	you're probably looking at maybe up to four days. In	25 Washington says use average annual flow, use the
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1 2	some cases the flood would dissipate over the course of	1 average annual flow.
1 2 3	some cases the flood would dissipate over the course of its journey.	
2	some cases the flood would dissipate over the course of	 average annual flow. CHAIRMAN NOBLE: Did you use average
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	Page 3517	Γ	Page 3519
1	videos of Brad Dimock?	1	Let's go 15 minutes, 15 minutes now, which means we
- 1	A. Yes.	2	will convene at 10:15.
	Q. Are you his present company exempted for his	3	(A recess was taken from 10:03 a.m. to
4	comment that canoeists are not good boaters? A. Yes.	4	10:16 a.m.)
1		5	MS. HERNBRODE: Mr. Chairman,
1	Q. Did you contact Brad at some point in the past about navigability?	6	Mr. Fuller, Rich talked about where the depths are
7	A. I did. Someone in his testimony asked him if	7	calculated at gages. In response to that testimony, we
ı	we had had communication, and he apparently did not	8	did ask you to go out and measure some depths at gages. If you do not want me to go into
9		9	CHAIRMAN NOBLE: Be glad to hear this.
10	remember that I became acquainted with him through his books, but also through a chat forum that I participate	10	_
11	in sometimes, and I had contacted him. People said,	11 12	Thank you. MS. HERNBRODE: Okay.
12	"If you want to talk about historic boats, you should	13	BY MS. HERNBRODE;
14	talk to Brad. He knows a lot about them."	14	Q. Can you explain what gages you went to and
15	So I sent him an e-mail maybe two years	15	what you did at those gages?
16	ago now. I'm not exactly sure when it was. But he	1	A. I went to the Verde Clarkdale gage and I went
17	was on the river and said, "I'm on the river. I'm	17	to the Verde near Camp Verde gage, which the Clarkdale
18	going to ignore you." And I moved on, and that was the	18	is at the upstream end of Segment 2. The Verde near
19	last	19	Camp Verde gage is in Segment 3 just downstream of The
20	CHAIRMAN NOBLE: Is this Brad Dimock?	20	Falls. I also went to the near Tangle Creek gage,
21	MS. HERNBRODE: Yes.	21	which is in Segment 4.
22	THE WITNESS: Yes.	22	And what I did at those gages was, in the
23	CHAIRMAN NOBLE: Is the State	23	case of the Clarkdale gage, I had a survey rod with me.
24	challenging Mr. Dimock's memory at this point?	24	I went to the gage itself, to the station where the
25	THE WITNESS: No.	25	transmitter is that sends the data, and, generally, the
			- ,
	www.coashandcoash.com Phoenix, AZ		www.coashandcoash.com Phoenix, AZ
	Page 3518		Page 3520
1	Page 3518 MS, HERNBRODE: We are clarifying when	1	Page 3520 cable is located near or at that, and made a transect
1 2		1 2	
	MS. HERNBRODE: We are clarifying when		cable is located near or at that, and made a transect
2	MS. HERNBRODE: We are clarifying when we contacted him, to make sure that ANSAC has the truth	2	cable is located near or at that, and made a transect to the river to identify the depths.
2 3	MS. HERNBRODE: We are clarifying when we contacted him, to make sure that ANSAC has the truth of the matter.	2	cable is located near or at that, and made a transect to the river to identify the depths. In the case of the Clarkdale gage, they were
2 3 4	MS. HERNBRODE: We are clarifying when we contacted him, to make sure that ANSAC has the truth of the matter. CHAIRMAN NOBLE: Okay.	2 3 4	cable is located near or at that, and made a transect to the river to identify the depths. In the case of the Clarkdale gage, they were over my head deep at that point, and then I went down
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l	Page 3521	T	Page 3523
-	THE WITNESS. Did the same thing at all	-	A Liverild say Luce them. It's always nice to
1	THE WITNESS: Did the same thing at all of them and the same kind of findings.	2	A. I would say I use them. It's always nice to look at a picture of a river if you haven't been there
3	CHAIRMAN NOBLE: Will that be presented	3	
4	in some sort of written form?	4	
5	THE WITNESS: Pictures.	5	
6	CHAIRMAN NOBLE: Not pictures. Not	6	
7	written form? There won't be any measurements that	7	
8	you're going to present?	8	
9	THE WITNESS: Pictures of depth.	9	
10	CHAIRMAN NOBLE: Pictures of depth. You	10	
11	took a photograph of the rod?	11	
12	THE WITNESS: Yes.		Q. Do the boating guides have uniform
13	CHAIRMAN NOBLE: Okay, that will be	13	
14	fine. Thank you, Joy.	14	
15	BY MS. HERNBRODE:	15	
	Q. So you found in all of those instances that		A. No, they don't. They are inconsistent.
17	the measured depths were deeper than the rating curve	17	
18	would predict the depths would be?	18	
	A. Yes.	19	
20	In the neighborhood, but somewhat deeper.	20	
	Q. Okay. Not wildly off?	21	. T
	A. No, except at the pools, of course, which are	22	
23	very deep.	23	People who are in rafts doing whitewater
24	Q. Are rapids limiting to boating?	24	rafting, they're more looking for an adventure. And
	A. No. No, they're not. And this is in	25	
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			www.coastianucoasti.com / noenix, Az
	Page 3522		Page 3524
1	Page 3522 rebuttal to a number of folks who have testified to	1	
1 2	rebuttal to a number of folks who have testified to	1 2	on, they're thinking about, well, how big is the water
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NO. 04-009-NAV April 3, 2015 Page 3525 Page 3527 1 which I thought -- I gave a very fair accounting of 1 Q. How about on Segments 2 through 5? which accounts were successful and which ones were not 2 A. Well, 2 is significantly altered. So what I and what kinds of boats they used and what we do and have seen is what you're asking me about. So I have don't know about those accounts. Most of them were not seen the ordinary and natural condition with the successful. reconstructed flow. 5 MS. HERNBRODE: Thank you very much, 6 6 Downstream of the Verde Ditch, the river is 7 Mr. Chairman. I believe we have exceeded your time 7 completely dry when they're diverting. So I have seen 8 limitation requirement. it dry in that reach. A couple in the case where I 9 CHAIRMAN NOBLE: Well, I think you have paddled through there, we carried over the dam. We saw exceeded our expectations about when you were going to the dry river and said now what do we do? We dragged 10 10 finish, and we appreciate that. our boats about a hundred yards, somewhere in that 11 11 Is there anyone that has some questions neighborhood, found a pool, put it in the pool, paddled 12 for Mr. Fuller regarding his testimony today? across the pool, dry, drag. By the time we were a 13 13 quarter mile downstream, we were paddling again 14 MR. MCGINNIS: Yes, Mr. Chairman. 14 15 CHAIRMAN NOBLE: Mr. McGinnis. continuously. 15 16 MR. HOOD: And I will likely have very 16 Q. How about in Segments 3, 4, and 5? few following Mr. McGinnis, Mr. Chairman. 17 A. In Segment 3 I would doubt that there was a 17 CHAIRMAN NOBLE: I'm not sure we can point anywhere out there -- well, let me think about 18 18 trust you anymore after yesterday afternoon. 19 19 that. MR. HOOD: My recollection, 20 I can tell you that in paddling those, I 20 Mr. Chairman, is my examination was highjacked by a never had to get out of my boat for shallow water, and 21 couple of other gentlemen who asked questions in the I did it as low as 190, 190 cfs. 22 22 23 meantime. 23 Q. And I don't mean to cut you off, but my 24 MR. MCGINNIS: I think I have about a 24 question is very specific and to the shallowest riffle half an hour. We'll be quick. Maybe shorter. 25 you've ever seen on those three segments. 25 www.coashandcoash.com Phoenix, AZ www.coashandcoash.com Phoenix, AZ Page 3526 Page 3528 REBUTTAL CROSS-EXAMINATION 1 1 A. Yes, and so there's 190 miles of river and BY MR. MCGINNIS: I'm processing a lot of data here, so -- and a 55-year-old brain that is --3 Q. Good morning, Mr. Fuller. 3 4 A. Good morning. CHAIRMAN NOBLE: Young, very young. 4 5 Q. In your discussion with Ms. Hernbrode this THE WITNESS: Doesn't feel like that in 5 6 morning, you made the point that there's no place on the morning. the Verde River where there are 5-foot pools and 1-inch 7 Off the top of my head, I've probably 8 riffles. Do you recall that? seen places where at a single point it's 6 inches as a 8 9 A. I remember that discussion. maximum depth. 9 10 O. You have seen some pretty shallow riffles at 10 BY MR. MCGINNIS: 11 times on the Verde, haven't you? 11 Q. You talked some in your direct testimony this morning on rebuttal about some boating you had done on 12 A. Yes, I have. 12 13 Q. What's the most shallow riffle you've ever 13 the Verde recently. Do you recall that? 14 seen on the Verde? 14 A. Yes. 15 Q. And I think you said at one point you brought 15 A. Well, in Segment 0, as I mentioned, there are 16 dry segments that I have seen. 16 a particular boat because it's easy to carry. Do you 17 Q. Outside of Segment 0. 17 recall that? 18 A. There are portions in Segment 1, primarily 18 A. Yes. 19 upstream of Perkinsville, where there are going to 19 Q. When was that trip? 20 be -- and you're asking me about maximum depths? 20 A. The 21st of March. 21 Q. Yes, riffles. 21 Q. And you said the flow was about 294 cfs? 22 A. I didn't measure them in there, so I'm going 22 A. Yes. on recollection; but I'm guessing that there are 23 Q. And you chose to make that trip in a modern probably riffles in there that I've seen that are boat rather than a replica boat like those made by

Mr. Dimock, correct?

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4 inches as a single point, a single cross-section.

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Page 3529 Page 3531 1 A. I do not own a replica boat. 1 pool. 2 Q. And I believe Mr. Dimock testified that you 2 Q. Did you see them go through any rapids? 3 didn't ask him to borrow one of his replica boats and 3 A. No. 4 try it on the Verde, right? 4 Q. So you don't know if they were still having a 5 A. That's correct. great time when they got to a rapid? 6 Q. Can you tell me why that is? 6 A. Well, I asked them if they did Verde Falls; 7 A. Why I didn't ask him to borrow his boat? and they said they had run the Pre Falls, and they said they took a stab at Verde Falls and got stuck and 8 Q. Yes. 9 A. I don't like it when people ask to borrow my picked up their raft and threw it to the bottom and 10 boats, and they're not handmade. He put a lot of climbed back in, 10 11 effort into that. He doesn't know me very well at all. 11 Q. You talked some about the depths in the GLO We've met the once. 12 surveys. Do you recall that? 13 Q. And the 294 cfs that was there when you made 13 A. I do. 14 O. You don't know, when you look at a GLO 14 this last trip, that's in the general area of your 15 reconstructed median flow rate, right? survey, in most situations, where in the river the 15 16 A. I believe Rich's reconstruction there is 440. 16 surveyor was talking about the depth being? 17 Q. It's within 100 cfs or so? 17 A. No. 18 A. Well, it's half again as much, so ... 18 Q. So it could be anywhere? But, you know, it's certainly not a flood. 19 A. Well, you assume it's generally in the area 20 Q. And so you had a pretty good flow at 294 cfs? where they surveyed, but anywhere within that area, 21 A. Yes. 21 sure. 22 Q. You had a gentleman who had made replica 22 Q. You don't know whether it's in a pool or 23 boats, so there were replicas of those available before riffle or rapid or Verde Falls? 24 statehood, right? 24 A. They did not specify. So no, to answer your 25 A. It was a replica of a boat that was available 25 question. www.coashandcoash.com Phoenix, AZ www.coashandcoash.com Phoenix, AZ Page 3530 Page 3532 1 Q. Do you still have the PowerPoint you did this 1 before statehood, is that what you said? 2 morning available? 2 Q. Yes. 3 A. Yes. Yes, it was. 3 A. I do. 4 Q. And you didn't ask him, "Hey, let's go take 4 Q. And I'm not sure you need to -- well, let's 5 it down the river"? pull it up. 6 A. We did, and he couldn't because of his knees. I want to particularly go to Page 1. 7 This was his testimony. 7 A. Just a moment here. 8 Q. And when he said he couldn't go, you never 8 Q. This is the slide that was originally asked him, "Hey, can somebody else take it?" prepared by Dr. Schumm, is that your understanding? 10 A. Yeah, we may have, and I'm not sure he -- he 10 A. I believe it's from one of Dr. Schumm's said he didn't know of anybody he wanted to have do 11 publications, yes. 12 that. I don't recall, to tell you the truth. We may 12 Q. And your testimony this morning was that you 13 have, though. 13 understood that Dr. Mussetter had said that the Verde 14 Q. So all the boating you've done recently on 14 River fell between 3a and 3b. Do you recall that? 15 A. I thought I had said 3b or 4. the Verde has been with a modern kayak or canoe? 16 A. Kayak, canoe, inflatable or a rubber raft. 16 Q. Okay. And if he said 3b, 4, or 5 in the 17 record, in the transcript, you never heard that? 17 Q. And the people you said you saw on the raft that were having a great time at 123 cfs, how long of a 18 A. I did not. 19 time did you see them? 19 Q. And would your opinion change about what his 20 A. They were going through the pool where the opinion was if he said 3b, 4, or 5? 21 Camp Verde gage is, and they maybe -- we stopped to 21 A. If he said 5, then there apparently was some 22 chat for a minute, and so they maybe took five minutes 22 segment that he was considering it looks just like that, in which is case I would disagree. But, yeah, 23 to get across the pool. 23 then I would need to amend that. 24 Q. Did you see them go through any riffles? 24 25 A. There's a riffle at the downstream end of the 25 Q. Let's move on to Page 2. This is the green www.coashandcoash.com Phoenix, AZ www.coashandcoash.com Phoenix, AZ

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Page 3539 Page 3537 1 going to take the time to deal with it. to go on a road than on the river. And what my 2 A. Sure. I have not seen this picture or its testimony actually was, if you go back and look at it, 2 source or anything, but, sure, I'll take your word for was that if you're carrying heavy loads, it's easier to 3 3 go on a road than in the river. 4 it. 5 O. Take a look at this picture; and if you I never said it was easy to go on the assume the Stoneman Road looks like this picture for 6 roads; or if I did, that's not what I meant to say. its entire distance, would it be easier to travel on 7 Clearly, going down a bumpy road pulling a mule or this road or on the Verde River in its condition as it 8 having the mule pull you, or a team of mules, is a existed in 1870? difficult thing and the roads are bumpy and hard. 9 9 10 A. What am I traveling in? CHAIRMAN NOBLE: So since we're enjoying 10 11 O. Your one person traveling by yourself with no this experience, just let me ask you, if you had 11 200 pounds of gear on the same day and you could choose 12 gear. 12 between that road and the river, which would you take? 13 A. You're asking me if it's easier to walk on a 13 14 road or walk in a river? 14 THE WITNESS: If I'm carrying 15 Q. You've got a boat. 15 200 pounds, it's going to be a short walk for me. 16 A. What kind of boat? CHAIRMAN NOBLE: You don't have to walk. 16 17 Q. The criterion boat that you used in this 17 You can have something on the road to help you carry it, just like on the river you have something to help 18 case. 18 19 A. Okay. If it would be easier to boat. Am I you carry it. 19 THE WITNESS: Yeah, and that's closer to 20 going upstream or am I going downstream? 20 the real question. So the real question is which would 21 O. Downstream. 21 22 A. And I'm walking. 22 you choose? So if I'm going downstream with 200 pounds And you're purporting to me that this is the and I have my wooden canoe or a wooden flat boat and 23 23 24 condition of the Stoneman Road as of the time of 24 the river is at its median discharge, I would go statehood, and I'm thinking about the river as of the downstream in the boat. 25 www.coashandcoash.com Phoenix, AZ www.coashandcoash.com Phoenix, AZ Page 3538 Page 3540 1 time of statehood. If I were going back upstream or if I 1 2 Q. No, this is a condition of Stoneman Road, the knew that when I got there, to wherever there was, I 3 photograph on the second page says, 1870. had to go overland or I needed transportation of some 3 other kind, like I needed to get up to Jerome for 4 A. Okay. 5 Q. So think of the river in 1870. That's the something, well, it doesn't do me much good to arrive 5 6 only question I have about it. at a place and need a horse, a mule, a wagon, and not 6 7 A. All right. I would say -- and when you say have one. So I would probably take the horse, mule and 7 8 easier, level of effort, and I'm carrying no gear? 8 wagon. 9 Q. Yes. Depends on what I'm bringing. And as 9 the loads get heavier, as Mr. Dimock testified when 10 A. About the same. 10 But you're asking me a question about somebody asked him the question about getting a lot of 11 something that I hadn't testified before, and I would ore or something down the river, he said, "Well, yeah, 12 12 I would take a whole lot of boats." Well, in my wagon like to go on a little bit. So it's really not a 13 I can carry a ton of material. In my small boat, I question --14 14 can't. So that makes the economics very different, and 15 Q. We'll go on all day, if you would like, but I 15 don't think Mr. Chairman would. that's what I was testifying to when I gave my direct. 16 MR. SLADE: Mr. Chairman. CHAIRMAN NOBLE: Thank you. 17 17 18 THE WITNESS: You know what --18 Mr. McGinnis. CHAIRMAN NOBLE: Eddie. BY MR. MCGINNIS: 19 19 20 MR. MCGINNIS: I'm going to let him 20 O. Okay. You didn't talk a lot about the 21 answer. I'm not stopping him. 21 historical accounts this morning, but I have a few CHAIRMAN NOBLE: Jon, what would you questions about those, about things you've talked 22 22 23 23 like to talk about? about. THE WITNESS: Well, I don't believe --Do you recall the photograph of the two guys 24 24 my testimony was characterized as I said it was easier in the boat? www.coashandcoash.com Phoenix, AZ www,coashandcoash.com Phoenix, AZ

Page 3541 Page 3543 1 A. I do. 1 morning. Do you recall that? 2 Q. Well, I've got a bunch of documents here that 2 A. Yes, vaguely. we can go through, if we need to, but I'm trying to 3 O. Pardon me? short-circuit it. 4 A. Vaguely. Is it your testimony that when you testified 5 Q. There was some questioning by Mr. Slade of Mr. Burtell, I think it was the day before yesterday, 6 back in 2006, you equated this photograph with the boat used to cross the river at Fort McDowell, or Fort about the reliability and credibility of historic Verde, excuse me? accounts. Do you recall being here for that? 9 A. I don't recall. 9 A. Yes. 10 Q. Okay. 10 Q. And do you recall Mr. Slade asking CHAIRMAN NOBLE: Mark, are we staying 11 11 Mr. Burtell whether the credibility of the person 12 within his -giving the account should be considered when you're 12 THE WITNESS: Nope. 13 13 figuring out how much weight to give the account? Do 14 you recall that? 14 CHAIRMAN NOBLE: -- rebuttal testimony? 15 MR. MCGINNIS: I believe so. He talked 15 A. Yes. about historical boating, I think, to some extent. 16 Q. And do you agree with that? THE WITNESS: I did not talk about this 17 17 A. Yeah, I think that's one of the factors, yes. 18 account. 18 O. And do you recall Mr. Slade asking about MR. MCGINNIS: He said he didn't recall. whether Mr. Day was a man of stature because he had 19 19 I'm just going to remind him. been the Arizona Game & Fish Commissioner? 20 20 THE WITNESS: Mr. Commissioner, I --21 21 A. I don't specifically recall that, CHAIRMAN NOBLE: You're not reminding 22 Q. What do you know about J.K. Day? 22 23 him of something he said during his testimony today. 23 A. I know that he was a trapper. I know that 24 MR. MCGINNIS: I am not reminding him of 24 later in his life he became some kind of Game & Fish 25 something he said during his testimony today. I'm Commissioner. I've seen his obituary and some things Phoenix, AZ www.coashandcoash.com www.coashandcoash.com Phoenix, AZ Page 3542 Page 3544 1 reminding him of something that came out through the people said about him as being an extremely loyal whole hearing, after he testified the first time, that friend, and that's pretty much what I recall about him. I think is incredibly relevant to what we're talking 3 Q. Do you recall anything else about his about here with these accounts. It will be a very obituary? 4 short period of time. It's up to you whether you let 5 5 A. There was an account of a friend who was me do it. mauled by a bear on a hunting trip and went out to find 6 7 THE WITNESS: I testified in 2006, as 7 him or something like that. this says. I further testified about this photograph 8 Q. Do you recall there being some controversy in the first round of hearings, and I was about whether that was maybe a fraudulent insurance cross-examined for the better part of two days on these scam? 10 things. We had plenty of opportunity to have this 11 A. No. 12 Q. Okay. I've just got a couple of exhibits to 12 conversation previously. MR. MCGINNIS: And my point is you 13 talk about that. 13 testified differently in 2006 than you did this time. MR. MCGINNIS: This is a new exhibit. 14 14 15 THE WITNESS: But I did not testify this 15 BY MR. MCGINNIS: 16 Q. Mr. Fuller, what I'm giving you is --16 morning. 17 CHAIRMAN NOBLE: Mr. McGinnis, we would 17 A. You're asking me a question about Mr. --18 appreciate it if you would call that to our attention 18 Q. Mr. Day and his partner, Mr. McCarty. in any type of documents that you submit as part of the 19 A. Rich's testimony about this account or 19 20 briefing. something? 21 MR. MCGINNIS: Certainly will. 21 Q. No, I'm asking you a question about the John 22 CHAIRMAN NOBLE: We would appreciate 22 Day -- the credibility of the Day brothers' account that you testified about this morning, that you 23 that 23 24 BY MR. MCGINNIS: 24 testified about several other times, okay? 25 Q. You did testify about the Day brothers this 25 A. Okay. www.coashandcoash.com Phoenix, AZ www.coashandcoash.com Phoenix, AZ

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1	Q. I've given you a newspaper article dated	1 Q. And John McCarty is the same person that was
2	October 15th, 1898. Do you see that on the front of	2 the Game & Fish Commissioner with Mr. Day. Do you
	the first page?	3 recall that from the prior article?
3	. —	4 A. I don't, but I'll look.
		1
1	Q. Okay. The second page is a blowup of that	5 There is a John McCarty, yes.
6	that's a little easier to read for us old guys. And it	6 Q. And if you look at the third paragraph of
7	says "John McCarty and J.K. Day have been appointed	7 this article I just gave you, it refers to
8	fish and game commissioners for Arizona."	8 Mr. McCarty's friend and partner, J.K. Day.
9	Do you see that?	9 Do you see that?
1	A. I do.	10 A. Okay.
1	Q. It says "Heretofore the duties of	11 Q. And it refers to this episode that you were
12	commissioner have not been onerous. There was nothing	12 talking about about the person being mauled by the
13	to do but draw salaries and make reports. It is not	bear. Do you see that? You can take some time to read
14	within the memory of any man now living that a report	14 it, if you need to.
15	was ever submitted. As to the salary, no legislature	15 A. Okay, I haven't seen this article before and
16	ever made an appropriation or any other provision for	16 I have not done any research on the topic of John
17	it. It was not even fixed. So the commissioners have	17 McCarty. I don't know what subsequent articles came
18	practicallynothing to do."	out regarding this. This is completely new to me.
19	Do you see that?	19 Q. So
20	A. I do.	20 A. I have no idea what part of the testimony in
21	Q. So would you agree with me that the position	21 the record you're giving me here. You're just throwing
22	of State Game & Fish Commissioner was a little bit	22 some stuff in front of me I've never seen before.
23	different in 1898 than it is today?	23 Q. Let me ask you just a simple question.
24	A. I have no doubt that the Commission job is	24 If there is evidence in this article that
25	different than it is today, if that's your question.	25 implies that Mr. Day was involved in a conspiracy to
	Www.coachandagach.com Phooniy A7	www.coashandcoash.com Phoenix, AZ
	www.coashandcoash.com Phoenix, AZ	
	Page 3546	Page 3548
1	Q. And the Fish & Game Commissioner position was	1 defraud a life insurance company with Mr. McCarty,
1 2	Q. And the Fish & Game Commissioner position was not prestigious or relating to stature quite as much as	defraud a life insurance company with Mr. McCarty,would that affect the amount of weight you would give
	· · · · · · · · · · · · · · · · · · ·	
2	not prestigious or relating to stature quite as much as	2 would that affect the amount of weight you would give
2	not prestigious or relating to stature quite as much as it would be today, would it?	 would that affect the amount of weight you would give to the article about the Day brothers' trip in the
2 3 4	not prestigious or relating to stature quite as much as it would be today, would it? A. Yeah, I don't to tell you the truth, I	 would that affect the amount of weight you would give to the article about the Day brothers' trip in the 1890s?
2 3 4 5	not prestigious or relating to stature quite as much as it would be today, would it? A. Yeah, I don't to tell you the truth, I have no idea what kind of prestige comes with that job	 2 would that affect the amount of weight you would give 3 to the article about the Day brothers' trip in the 4 1890s? 5 A. You're asking me a hypothetical. Let's just
2 3 4 5 6	not prestigious or relating to stature quite as much as it would be today, would it? A. Yeah, I don't to tell you the truth, I have no idea what kind of prestige comes with that job today or then. CHAIRMAN NOBLE: Mr. McGinnis, was that	 would that affect the amount of weight you would give to the article about the Day brothers' trip in the 1890s? A. You're asking me a hypothetical. Let's just call that out right here. Q. Yes, I am.
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Page 3549 Page 3551 CHAIRMAN NOBLE: Are we going to start 1 Q. Tell me the characteristics of Segment 4 that 1 calling you Sean? make it less navigable than Segment 2. 2 MR. MCGINNIS: I know. I had one more 3 A. They're quite close. They're quite close. 3 set of questions, and I think it's relevant to his And, again, I'm thinking about this in their ordinary 4 5 segmentation. 5 and natural condition, as I understand it. 6 BY MR. MCGINNIS: 6 I think we have a stronger historical record 7 O. One more set of questions that will lead to 7 in 2. My own experience on the river, it's quite easy your segmentation that we talked about this morning. to boat. In fact, I would guess that in its natural It was your understanding that -- it's your condition, in a small boat, I could take it upstream opinion that Segments 1 through 5 are all navigable, quite easily in Segment 2. And I think Mr. Randall, I 10 10 right? believe his name was --11 11 12 A. Yes. 12 Q. You've flipped my question around a little 13 Q. Could you rank for me, from the most bit. I've asked you the characteristics of 4 that make 13 it less navigable than 2, and you're telling me the 14 navigable to the least navigable, those five segments? 14 15 A. Sure. Yeah, that was an interesting question 15 characteristics of 2 that make it more navigable than that somebody asked Rich yesterday. 16 4. 17 Q. Yeah, I thought it was really good, so I 17 A. It's potato/potato; more one, less the other. There are more rapids in Segment 4 than there 18 thought I would copy it. 18 19 A. Yeah. And, actually, I'm going to go back, 19 are in 2. That would probably be the only one that 20 because as he was answering, I was making my own notes, comes to mind right now. 20 so I will tell you what I came up with. 21 Q. Okay. Tell me the characteristics of 21 COMMISSIONER ALLEN: Going from what to 22 Segment 5 that make it less navigable than 2 or 4. 22 23 what? 23 A. I kind of feel like I'm at the optometrist BY MR. MCGINNIS: 24 24 where the guy is going back and forth. 25 Q. From most to least, most navigable to least 25 Q. And I hate to ask, but that's my question. Phoenix, AZ www.coashandcoash.com www.coashandcoash.com Phoenix, AZ Page 3550 Page 3552 1 navigable. 1 A. And my dad was an optometrist, and he used to 2 A. And, you know, Eddie asked that question in get so mad at me because I changed my mind. 3 Q. I always thought I had the wrong answer if 3 like the exact triple opposite of what you did, so --4 Q. Because your opinion is -they keep asking you, but there you go. 5 A. And you wanted 2 and 5 --5 A. -- my notes aren't going to do me any good. 6 Q. Actually, your opinion is the exact triple 6 Q. Yeah. 7 opposite of Mr. Burtell in the same thing; and, 7 A. -- or 4 and 5? 8 Q. What are the characteristics of 5 that make frankly, my question to you requires less 9 double-negatives than Eddie's did. So I got the easy it less navigable than 2 and 4? side of it. 10 A. I've paddled both. I have a pretty strong 10 11 A. Less double-negatives. I don't know. record in 5 as well. And if you ask me on a different 11 day, I might flip-flop those two. There are actually 12 Q. Most to least. 12 13 A. Most navigable -fewer rapids in 5. So that kind of argues against what 13 CHAIRMAN NOBLE: Jody, are you okay? I was saying. 14 14 MR. MCGINNIS: I didn't have him read 15 CHAIRMAN NOBLE: You're winning, though. 15 the whole newspaper article. You should be happy. 16 THE WITNESS: Thank you. 17 CHAIRMAN NOBLE: Are you ready, Jon? 17 Yeah, I might actually switch that 18 THE WITNESS: Same rules, no ties? 18 around, if I thought about it a little more. I'm BY MR. MCGINNIS: probably being swayed by my modern boating experience 19 19 20 O. Yes, sir. 20 because Segment 5 tends to be a little strainery. You know, the flows aren't quite what they used to be. 21 A. I would say Segment 2 is most navigable, 21 followed by 4, followed by 5, followed by 3, followed There's been a lot of disturbance in there, access is 22 an issue. And these days with the Indian Community, 23 by 1. 23 24 Q. Okav. it's darn near impossible to get approval to paddle 25 A. 1 being the least navigable. 25 through there. www.coashandcoash.com Phoenix, AZ www.coashandcoash.com Phoenix, AZ

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Page 3553	Page 3555
1 Some of that's probably swaying my	1 MR. MCGINNIS: Thanks, Sean.
2 decision in a way it shouldn't in considering the river	2 MR. HOOD: Someone said Segment 1.
3 in its ordinary and natural condition.	BY MR. MCGINNIS:
4 So, yeah, I think if you allowed me to	4 Q. So let me ask the question again.
5 be equal, I would say 4 and 5 are pretty much equal.	5 A. Okay.
6 BY MR. MCGINNIS:	6 Q. Tell me the characteristics of Segment 3 that
7 Q. Okay. How about let's just talk between 5	7 make it less navigable than Segments 2, 4, and 5.
8 and 2 if you're having problems between 4 and 5.	8 A. Segment 3 is the whitewater reach and that's
9 A. 5 and 2?	9 where the Class IV rapid is. Sometimes it's a
10 Q. What are the characteristics of 5 that make	10 Class IV. It's Verde Falls. And Punk Rock is another
11 it less navigable than 2?	11 one that's a III, that I've scouted that one. The
12 A. Boy, this was really easy when I was watching	12 first time I went down I scouted it. I probably
13 Rich do it yesterday.	13 scouted it the second time. So it requires a little
14 Q. It's just like being on a game show on TV,	14 more skill.
15 right?	15 Q. Is that all?
16 A. Yeah, all the pressure.	16 A. Yeah.
17 CHAIRMAN NOBLE: And you were willing to	17 Q. Okay. How about the characteristics of
18 help Rich a lot.	18 Segment 1 that make it the least navigable of the five
THE WITNESS: If he had looked over, I	19 segments?
20 would have. I would have.	20 A. There's the least amount of flow up there,
21 BY MR. MCGINNIS:	21 particularly above Perkinsville.
22 Q. You can blame Mr. Slade for this.	MR. MCGINNIS: Okay. Thank you.
23 A. Yeah, I think a little more record. Again,	23 CHAIRMAN NOBLE: Thank you, Sean.
24 being on the water there, having done 2 so many times,	MR. MCGINNIS: He's probably more
25 I'm very, very familiar with it. I've done 5 fewer	25 offended by that than I am, I hate to tell you.
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1 times. It's wider. It's wider.	1 CHAIRMAN NOBLE: Mr. Hood, do you have
2 Q. 5 is wider?	2 some questions?
3 A. 5 is wider than 2.	3 MR. HOOD: I will be very brief.
4 Q. So you think that's why it's less navigable?	4 CHAIRMAN NOBLE: Lawyers always say
5 A. Yeah. So for an equivalent discharge,	5 that.
6 because it's wider, it's going to be a little less	6 COMMISSIONER HORTON: Ain't that the
7 deep. But as we discussed in our cross-examination,	7 truth.
8 there is a little more braiding, more split channels	8 MS. HERNBRODE: Most of us lie.
9 that bring some flow out of the main channel in	9 MR. HOOD: Good morning, Mr. Fuller.
10 certainly more places than there are in Segment 2.	10 THE WITNESS: Good morning.
11 Still wouldn't go so far as to call it braided, but we	11 CHAIRMAN NOBLE: Now, when you say very
would have less of an argument down there.	12 brief, are we going to need to take a break now or
Yeah, that's probably about it.	THE WITNESS: Depending on how many
14 Q. How about why is 3 less navigable than 2, 4,	14 interjections I receive, I think I will be done here
15 or 5?	15 very shortly.
16 A. This is a long one more question.	16 CHAIRMAN NOBLE: You heard that,
17 Q. I said one more set of questions. It's just	17 Mr. Allen.
18 a big set.	MR. HOOD: I had Fred in mind, actually;
19 A. Oh, yeah, clarify there.	19 but, no, I will be brief.
Now, this is 1 versus what?	20 MR. BREEDLOVE: I don't understand that.
21 Q. The three that you had ranked above it, 2, 4	21
22 and 5.	22 REBUTTAL CROSS-EXAMINATION
MR. HOOD: Segment 3 versus 2, 4 and 5.	23 BY MR. HOOD:
THE WITNESS: Segment 3 versus 2, 4, and	24 Q. A couple questions for you, Mr. Fuller, about
25 5.	25 your recent work in the field taking some measurements
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L	<u>'</u>

Page 3557 Page 3559 out in the stream. 1 recall that discussion generally? Do you recall that testimony from earlier 2 A. I don't. this morning? 3 3 Q. Okay. Let me ask you a straightforward 4 A. I do. question. I think I've asked this to you before, so I 5 Q. And it sounds like we're going to be getting apologize for the repetition, but I just want to make some materials added to the record reflecting that 6 sure we've got it. In the state of Arizona and probably across work; is that your understanding? 7 MR. SLADE: Yes. the Southwest, median flows are more representative of 8 THE WITNESS: Yes. q typical flow conditions for a Southwestern stream than 10 BY MR. HOOD: would be the mean flow; true? 11 Q. Okay. Will those materials indicate for us 11 A. Yes. what date that work was done? 12 Q. You had a little bit of discussion earlier this morning about Black River. Do you recall that? 13 A. Yes. 13 14 Q. Will those materials indicate the discharge 14 A. Yes. at the gage at the time that you were making those 15 Q. And the rapids that you mentioned as playing depth measurements? a role in your decision to recommend against pursuing 16 16 17 A. Yes. I included the USGS gage data for that 17 additional study on that river to evaluate navigability day as a JPEG in the file. was the presence of some rapids, and I think you said 18 19 Q. And I assume that the depths that you 19 they were Class III and IV; is that right? 20 measured were the maximum depth of the cross-section? 20 A. Yes. 21 A. I did traverses across the cross-section, 21 Q. The folks who you saw last weekend having a great time in a raft, was it a rubber raft? 22 23 And to be clear, I think somebody asked me if 23 A. Yes. 24 I had a survey rod in every one of them. I had the MR. HOOD: Thank you, Mr. Fuller. 24 survey rod at Clarkdale. You're not going to be able 25 CHAIRMAN NOBLE: Is there anyone else www.coashandcoash.com Phoenix, AZ www.coashandcoash.com Phoenix, AZ Page 3560 Page 3558 1 to read the survey rod. You're going to be able to who wishes to question Mr. Fuller? 1 look at me and see he's holding a survey rod and it's MR. HELM: I just have one question. 2 CHAIRMAN NOBLE: Mr. Helm, as long as 3 up to his knees. 3 CHAIRMAN NOBLE: Did you record the 4 you come or stand there and do it, but with no notepad. 4 depth somewhere? MR. HELM: I will not have a notepad. I 5 5 didn't make a note of this deal, other than the numbers б THE WITNESS: Yes. 6 CHAIRMAN NOBLE: Okay, if you recorded 7 of the exhibits. 7 the depth. And you said that we were going to get 8 8 REBUTTAL CROSS-EXAMINATION photographs. 9 9 THE WITNESS: Yes, 10 BY MR. HELM: 10 11 CHAIRMAN NOBLE: I wonder how much 11 Q. Were there more than one Class IV rapid on longer I can take and really use up his time. Anybody the Black River section you talked about? 12 have any good ideas? 13 A. Yes, and that was the issue. It was not the 13 14 THE WITNESS: So I did not have the presence of a single Class IV. It was the number and survey rod with me at Tangle Creek or Camp Verde. 15 spacing of them, and as well as a number of other 15 CHAIRMAN NOBLE: But somehow you factors. Rapids was not the only factor. 16 recorded a depth, and you have --17 Q. What were the other factors? 17 THE WITNESS: Yes. 18 A. The factors of the seasonality of the flow, a 18 19 CHAIRMAN NOBLE: -- then reported that 19 very brief season that is not very predictable, and as depth that you did record? well as there are years when there is no season on that 20 20 21 THE WITNESS: Yes. 21 particular river. CHAIRMAN NOBLE: Okay. 22 MR. HELM: Thank you. 22 BY MR. HOOD: 23 CHAIRMAN NOBLE: Joy. 23 MS. HERNBRODE: Unless anybody else over 24 Q. Mr. Fuller, you had some discussion earlier 24 today about mean flows versus median flows. Do you here has any more. I just have two. Phoenix, AZ www.coashandcoash.com www.coashandcoash.com Phoenix, AZ

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1	CHAIRMAN NOBLE: Going once.	1	on this?
2	component in the contract of t	2	MR. BREEDLOVE: No.
3	REBUTTAL REDIRECT EXAMINATION	3	CHAIRMAN NOBLE: The briefing schedule
4	BY MS. HERNBRODE;	4	will begin no earlier, that is, the first day of the
5		5	time period in which you have to begin the briefing
6	carry, it was because you were just planning to boat		
		6	will begin no earlier than three weeks from today, and
7	down Bob's site and then go back to the car, correct?	7	it will begin no earlier than one week after the
8	A. I thought I was going to have to walk the	8	transcript is filed.
9	mile and a half back up. I have a bad shoulder. My	9	We won't set you know, 45 days for
10	other boat that I use that you see in my other	10	your first brief, that won't happen until one week
11	pictures, I had to move the seat, so it's not quite	11	after the transcript is filed.
12	balanced, and so you're carrying it on your arms, and	12	MR. BREEDLOVE: We need a deadline for
13	this one I can set on my shoulder, other shoulder.	13	filing additional evidence. Typically, haven't we done
14	` '	14	two weeks after the close of hearing for the deadline
15	really clear. In the video it appears that there may	15	for filing additional evidence? Is that correct?
16	be cargo in the front of that boat. Those are empty	16	MS. HERNBRODE: It has been coinciding
17	bags, it's lightweight; is that true?	17	with the date of the filing the anticipated date of
18	A. Yeah. That boat has airbags in it, yeah. I	18	the filing of the transcript, which was about two
19	didn't need them that day, but I keep them in the boat.	19	weeks, I believe, but we have to give the court
20	Q. Okay. If the evidence shows that the life	20	reporter an extra week, I believe, for a week of
21	insurance company we're back to the Day brothers.	21	hearing.
22	Sorry.	22	CHAIRMAN NOBLE: Well, I have to look at
23	If the evidence shows that the life insurance	23	the calendar now.
24	companies associated with Mr. McCarty's death	24	Let's have all additional evidence will
25	eventually paid out, and there was no evidence, other	25	be filed by the 17th, Friday. How does that sound?
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1	than newspaper speculation after Mr. Day's death, that	1	MS. HERNBRODE: Of April?
2	Mr. Day had any involvement, would the whole	2	CHAIRMAN NOBLE: April.
3	controversy have any weight at all regarding Mr. Day's	3	MS. HERNBRODE: And, Mr. Chairman, I
4	credibility, in your mind?	4	understand there are some parties who may wish to make
5	A. No. That's why I was asking for the	5	some corrections on the transcripts that have been
6	clarifying questions. So, no, it wouldn't.	6	previously filed. Would those also be due on that
7	CHAIRMAN NOBLE: Just a masterful	7	date?
8	question, Joy.	8	CHAIRMAN NOBLE: You know, you bring up
9	MS. HERNBRODE: Took me a whole five	9	an interesting point, Joy. Typically, we do not
10	minutes to write it.	10	correct or alter the transcript. However, in this
11	CHAIRMAN NOBLE: Sewed that thing up	11	case, due to some language issues, we are going to
12	really tight.	12	alter the transcript, but only as to the language
13	Okay. Is there anyone else who would	13	issues.
14	like to ask Mr	14	MR. BREEDLOVE: And the correction for
15	MS. HERNBRODE: Fuller.	15	the name.
16	CHAIRMAN NOBLE: Fuller some	16	CHAIRMAN NOBLE: You had to bring that
17		17	up.
	questions?	1	
18	If not, are there any other witnesses	18	We will do the typical thing like for a
18 19	If not, are there any other witnesses for the Verde River?	18 19	deposition. If you find something in there that you
19 20	If not, are there any other witnesses for the Verde River? MS. HERNBRODE: Mr. Chairman, we do not		deposition. If you find something in there that you say I wish I hadn't said, well, you can file something
19 20 21	If not, are there any other witnesses for the Verde River? MS. HERNBRODE: Mr. Chairman, we do not have any more witnesses.	19 20 21	deposition. If you find something in there that you say I wish I hadn't said, well, you can file something that says I wish I hadn't said that, but that don't
19 20	If not, are there any other witnesses for the Verde River? MS. HERNBRODE: Mr. Chairman, we do not have any more witnesses. CHAIRMAN NOBLE: There are no other	19 20	deposition. If you find something in there that you say I wish I hadn't said, well, you can file something that says I wish I hadn't said that, but that don't change the transcript. The transcript is what it is,
19 20 21	If not, are there any other witnesses for the Verde River? MS. HERNBRODE: Mr. Chairman, we do not have any more witnesses. CHAIRMAN NOBLE: There are no other witnesses for the Verde River. The testimony for the	19 20 21 22 23	deposition. If you find something in there that you say I wish I hadn't said, well, you can file something that says I wish I hadn't said that, but that don't change the transcript. The transcript is what it is, unless you want to challenge the reporter. Yeah, we're
19 20 21 22	If not, are there any other witnesses for the Verde River? MS. HERNBRODE: Mr. Chairman, we do not have any more witnesses. CHAIRMAN NOBLE: There are no other witnesses for the Verde River. The testimony for the Verde River is now closed.	19 20 21 22 23 24	deposition. If you find something in there that you say I wish I hadn't said, well, you can file something that says I wish I hadn't said that, but that don't change the transcript. The transcript is what it is, unless you want to challenge the reporter. Yeah, we're probably not going to go through that proceeding
19 20 21 22 23	If not, are there any other witnesses for the Verde River? MS. HERNBRODE: Mr. Chairman, we do not have any more witnesses. CHAIRMAN NOBLE: There are no other witnesses for the Verde River. The testimony for the	19 20 21 22 23	deposition. If you find something in there that you say I wish I hadn't said, well, you can file something that says I wish I hadn't said that, but that don't change the transcript. The transcript is what it is, unless you want to challenge the reporter. Yeah, we're

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             Any other questions, comments, or
  1
        issues?
  2
  3
             Okay. Then the hearing is concluded,
        and we will gather over here for a little discussion.
  4
  5
             (The proceedings concluded at
             11:06 a.m.)
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        BE IT KNOWN that the foregoing proceedings were taken before me; that the foregoing pages are a full, true, and accurate record of the proceedings, all done to the best of my skill and ability; that the proceedings were taken down by me in shorthand and thereafter reduced to print under my direction.
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        I CERTIFY that I have complied with the ethical obligations set forth in ACJA 7-206(F)(3) and ACJA 7-206 J)(1)(g)(1) and (2). Dated at Phoenix, Arizona, this 19th day of April, 2015.
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