

## Notes on Final Exhibit Submission for Case in Chief

California WaterFix hearing  
California Department of Water Resources and U.S. Bureau of Reclamation

Date: Jan 6, 2016, exhibits submitted Dec 20, 2016

**PARTICIPANT:** Deirdre Des Jardins, Principal, California Water Research

Exhibit Identification Number	Exhibit Description	Exhibits used to date				Hearsay Exceptions
		Testimony	Cross-examination	Document Type	Response	
DDJ-1	CVP OCAP June 30, 2004 p. 5-1 to 5-4 highlighted		Milligan, Leahigh	USBR official report	witness recognized, testified	1. Public agency record, Evid. Code § 1280, 2. Technical document, Evid. Code § 721(b)(3)
DDJ-3	Jan 1 2013 Sacramento River Water Year Forecast		Leahigh	DWR official record	witness recognized, testified	1. Public agency record, Evid. Code § 1280, 2. Technical document, Evid. Code § 721(b)(3)
DDJ-4	SWP Notice 12-11 2013 2013 SWP initial allocation		Leahigh	DWR official record	witness recognized, testified	1. Public agency record, Evid. Code § 1280, 2. Technical document, Evid. Code § 721(b)(3)
DDJ-5	April 1 2013 Sacramento River Water Year Forecast		Leahigh	DWR official record	witness recognized, testified	1. Public agency record, Evid. Code § 1280, 2. Technical document, Evid. Code § 721(b)(3)
DDJ-6	SWP Notice 13-09 2013 Table A Allocation Decrease		Leahigh	DWR official record	witness recognized, testified	1. Public agency record, Evid. Code § 1280, 2. Technical document, Evid. Code § 721(b)(3)
DDJ-7	Dec 1 2013 Sacramento River Water Year Forecast			DWR official record		1. Public agency record, Evid. Code § 1280

DDJ-8	Bay Delta Live -- Salinity in the Delta Jan 28 2014		Milligan	Graphic representation of DWR data	witness testified in response	2. Technical Document, Evid. Code § 721(b)(3)
DDJ-9	CDEC graphs EC at Clifton Court Forebay and Banks pumping 2013-2014		Milligan, Leahigh	DWR data		1. Public agency record, Evid. Code § 1280 6. Official data, Evid. Code § 1340, 2. Technical document, Evid. Code 721(b)(3)
DDJ-10	CDEC graphs Oroville storage 2013 and 2016		Leahigh	DWR data	witness testified in response	1. Public agency record, Evid. Code § 1280 6. Official data, Evid. Code § 1340, 2. Technical document, Evid. Code 721(b)(3)
DDJ-11	Riebsame, W.E. 1988 ADJUSTING WATER RESOURCES MANAGEMENT TO CLIMATE CHANGE Climatic Change 13: 69-97 p. 81-86 highlighted		Leahigh	Treatise -- Journal article with historic DWR operations	Excerpt, witness testified in response	2. Scientific Article, Evid. Code § 721(b)(3)
DDJ-12	2004 CalSim II Peer Review Response p. 18-19 highlighted		Leahigh, Milligan		Excerpt, witness testified in response	1. Public agency record, Evid. Code § 1280 2. Technical document, Evid. Code § 721(b)(3)
DDJ-13	2004 Methodology for Flow and Salinity Annual Report Ch 8		Shankar	DWR/Board official record	witness testified in response	1. Public agency record, Evid. Code § 1280
DDJ-14	2004 Annual Report Ch 8 p. 3-5 DSM2 forecasting highlighted		Shankar	Excerpt of DWR/Board official record	witness testified in response	1. Public agency record, Evid. Code § 1280
DDJ-15	Anderson June 24 2009 Extreme Precipitation Symposium Presentation Future Droughts in a Climate Change World		Anderson	Prior presentation by witness	witness recognized, testified	4. Prior inconsistent statement by witness, Evid. Code § 1235, § 1414 (a), Technical Reference Document, Evid. Code § 721(b)(3)
DDJ-16	Anderson 2009 Future Droughts p. 19-23 Climate Change highlighted		Anderson	Prior presentation by witness	witness recognized, testified	4. Prior inconsistent statement by witness, Evid. Code § 1235, § 1414 (a), Technical Reference Document, Evid. Code § 721(b)(3)

DDJ-17	CDEC Water Supply Index History Jan 19 2016 marked		Anderson	DWR data	witness recognized, testified	2. Technical Reference Document, Evid. Code § 721(b)(1)
DDJ-18	Anderson Jan 12 2015 PPIC Presentation Climate Drought and Change		Anderson	Prior presentation by witness	witness recognized, testified	4. Prior inconsistent statement by witness, Evid. Code § 1235, § 1414 (a), Technical Reference Document, Evid. Code § 721(b)(3)
DDJ-19	Anderson PPIC p. 19-23 21st Century		Anderson	Prior presentation by witness	witness recognized, testified	4. Prior inconsistent statement by witness, Evid. Code § 1235, § 1414 (a), Technical Reference Document, Evid. Code § 721(b)(3)
DDJ-20	Anderson 2009 Future Droughts p. 15-17 Paleodroughts highlighted					
DDJ-21	CDEC Water Supply Index History Jan 19 2016				unmarked original of Exhibit DDJ-17	1. Public agency record, Evid. Code § 1280
DDJ-30	DWR Bulletin 192-82 Delta Levees Investigation from Internet Archive, contributed by University of California		Bednarski	DWR official report	witness acknowledged	1. Public agency record, Evid. Code § 1280
DDJ-31	Reference to seismic hazard evaluation for Clifton Court Forebay on p. 48 of Bulletin 192-82 highlighted		Bednarski	DWR official report	witness testified	1. Public agency record, Evid. Code § 1280
DDJ-32	DWR-212 pp. 46-49 seismic analysis highlighted		Bednarski	Excerpt of DWR exhibit	witness recognized, testified	2. Evid. Code § 721(b)(1)
DDJ-33	DWR-212 pp. 147-150 Tunnel Safety highlighted		Bednarski	Excerpt of DWR exhibit	witness recognized, testified	2. Evid. Code § 721(b)(1)
DDJ-34	DWR-212 pp. 142-143 Tunnel joints highlighted		Bednarski	Excerpt of DWR exhibit	witness recognized, testified	2. Evid. Code § 721(b)(1)
DDJ-35	DWR-212 p. 60 Clifton Court Forebay highlighted		Bednarski	Excerpt of DWR exhibit	witness recognized, testified	2. Evid. Code § 721(b)(1)
DDJ-36	DWR-212 pp. 105-108 CCF pumps highlighted		Bednarski	Excerpt of DWR exhibit	witness recognized, testified	2. Evid. Code § 721(b)(1)
DDJ-38	DECLARATION -- DELTA LEVEES INVESTMENT 1982	Deirdre Des Jardins	Supporting declaration		Served on parties with Engineering cross exhibits	

DDJ-41	State Water Project 2005 Delivery Reliability Report		Reyes	DWR official report	witness recognized	1. Public agency record, Evid. Code § 1280
DDJ-42	2005 DRR excerpt p. G-27 PCL comments on CalSim highlighted		Reyes	Excerpt of DWR official report	witness testified	1. Public agency record, Evid. Code § 1280
DDJ-43	2005 2005 DRR excerpt p. G-43 to G-44 DWR reply to PCL highlighted		Reyes	Excerpt of DWR official report	witness testified	1. Public agency record, Evid. Code § 1280
DDJ-44	Draper and Bourez 2003 CWEMF presentation			CWEMF presentation	Whole document from which DDJ-45 is excerpted	2. Technical Reference Document, CALSIM, referenced in DWR's response to CWR filings
DDJ-45	Draper and Bourez excerpts p. 3-6, 52-54, 18-19 highlighted		Reyes	CWEMF presentation	Excerpt, witness testified in response	2. Technical Reference Document, CALSIM, Evid. Code § 721(b)(3)
DDJ-46	Draper and Bourez p. 32 DWR recognizes problems					
DDJ-47	CalSim2Updates Nancy Parker CWEMF 2014					2. Technical Reference Document, CALSIM, referenced in DWR's response to PCFFA/IFR subpoena
DDJ-48	CalSim2Updates p. 3 CalSim base versions				Excerpt of DDJ-47	
DDJ-49	CalSim2Updates p. 10-13 Sac Valley corrections				Excerpt of DDJ-47	
DDJ-50	BDCP Draft EIR-EIS technical appendix p. A12-A13 Sac Valley highlighted					2. Technical Reference Document, CALSIM
DDJ-51	Peer Review response p. 9 reservoirs			Excerpt of DDJ-102		1. Public agency record, Evid. Code § 1280
DDJ-54	Peer Review response p. 18-20 validation		Munevar, Reyes	Excerpt of DDJ-102	DWR official record	1. Public agency records, Evid. Code § 1280
DDJ-55	2003 peer review p. 3 not technical			Excerpt of DDJ-101		2. Technical Reference Document, CALSIM
DDJ-56	2003 peer review p. 8-9 31 validation			Excerpt of DDJ-101		2. Technical Reference Document, CALSIM
DDJ-57	CalSim A generalized model for reservoir system analysis Journal article		Munevar (written)		Referenced in written testimony of Armin Munevar, mentioned in DDJ testimony	2. Basis of Expert Opinion, Evid. Code § 801(b)

DDJ-58	8.12.10 SC Presentation SJR Inflow Sensitivity		Paulsen	BDCP Steering Committee document	Report of sensitivity analysis requested from DWR	2. Technical Reference Document, CALSIM, Evid. Code § 721(b)(3)
DDJ-60	BDCP_ClimateChangeScenarios_Munevar		Munevar	BDCP Steering Committee document, prior presentation by witness	witness recognized	4. Prior statement by witness, Evid. Code § 1414 (a)
DDJ-61	BDCP Climate Change Scenarios p. 9-11, 16-17, 21		Munevar		witness testified	4. Prior statement by witness, Evid. Code § 1414 (a)
DDJ-62	<u>Flato, Gleckler, et. al.</u> Evaluation of Climate models_Chapter09		Munevar	Treatise -- IPCC Report	witness testified	2. Technical Reference Document, Evid. Code § 721(b)(3)
DDJ-63	<u>Flato, Gleckler, et. al.</u> Chapter 9 p. 811 precipitation closeup WNA		Munevar	Treatise -- IPCC Report	witness testified	2. Technical Reference Document, Evid. Code § 721(b)(3)
DDJ-64	10_22_09_SC_HO_Climate_Change_Methodology_Presentation.sflb			BDCP Steering Committee document		1. Public agency record, Evid. Code § 1280
DDJ-89	Howard request 1995 WQ plan modelling					1. Public agency record, Evid. Code § 1280
DDJ-90	reserved					
DDJ-93	Chart from Richard Denton's 9.23.15 comments -- Total South Delta Exports		Bourez	Board record -- letter	witness testified	2. Technical Reference Document, Evid. Code § 721(b)(3)
DDJ-94	Order Denying Petitions for Reconsideration of Decision D 990 1961		Nomellini Sr.	Board order	witness recognized, testified	1. Public agency record, Evid. Code § 1280, 7. Board order, Title 23 CCR §§ 648.2, 648.3
DDJ_96	Water Right Decision 1275 with highlighting		Nomellini Sr.	Board order	witness recognized, testified	7. Board decision, Title 23 CCR §§ 648.2, 648.3
DDJ-97	Francis Chung's 2010 CWEMF Presentation					
DDJ-98	Decision D 990		Nomellini Sr.	Board decision	witness recognized, testified	7. Board decision, Title 23 CCR §§ 648.2, 648.3
DDJ-100	Deirdre Des Jardins Statement of Qualifications	Des Jardins				

DDJ-101	A Strategic Review of CALSIM II and its Use for Water Planning, Management, and Operations in Central California,	Des Jardins				1. Public agency record, Evid. Code § 1280, 2. Basis of Expert Opinion, Evid. Code § 801(b)
DDJ-102	PEER REVIEW RESPONSE: A Report by DWR/Reclamation in Reply to the Peer Review of the CalSim-II Model Sponsored by the CALFED Science Program in December 2003 (August 2004)	Des Jardins				1. Public agency record, Evid. Code § 1280, 2. Basis of Expert Opinion, Evid. Code § 801(b)
DDJ-103	Review Panel Report San Joaquin River Valley CalSim II Model Review	Des Jardins				1. Public agency record, Evid. Code § 1280
DDJ-104	Report of the Panel on Analytical Tools for Evaluating Water Supply, Hydrodynamic and Hydropower Effects in the Bay-Delta Plan	Des Jardins	Dr. Shankar and Ringelberg	Board official record -- report	witnesses recognized, DDJ authentication	1. Public agency record, Evid. Code § 1280, 2. Basis of Expert Opinion, Evid. Code § 801(b)
DDJ-105	Instruction 5000.61 on DoD Modeling and Simulation (M&S) Verification, Validation, and Accreditation (VV&A)	Des Jardins				1. Public agency record, Evid. Code § 1280, 2. Basis of Expert Opinion, Evid. Code § 801(b)
DDJ-106	California Department of Water Resources, 35th Annual Progress Report to the State Water Resources Control Board on Methodology for Flow and Salinity Estimates in the Sacramento-San Joaquin Delta and Suisun Marsh, (2014)	Des Jardins	Dr. Shankar	DWR official record - report	Testimony of Armin Munevar, DWR response to subpoena	1. Public agency record, Evid. Code § 1280
DDJ-107	National Academy of Sciences Report Chapter 4 Use of Models	Des Jardins				1. Public agency record, Evid. Code § 1280, 2. Basis of Expert Opinion, Evid. Code § 801(b)
DDJ-109	Musings on a Model: CalSim II in California's Water Community, Ines C. Ferreira et. al.		Bourez			2. Technical Reference, Evid. Code § 721(b)(3)
DDJ-112	Exhibit DWR-324, with Title 23, subsection 794(a)(6) highlighted		North Delta	Excerpt of DWR exhibit	witness testified	
DDJ-115	Map of Freeport Regional Water Project		Cosio	East Bay MUD map	witness testified	2. Technical Reference, Evid. Code § 721(b)(3)
DDJ-116	CalFed Record of Decision		Cosio	CALFED Official Record	witness recognized	1. Public agency record, Evid. Code § 1280
DDJ-117	CalFed Record of Decision, p. 17 Levees		Cosio	Excerpt of DDJ-116	witness recognized, testified	1. Public agency records, Evid. Code § 1280, Evid. Code § 721(b)(3)
DDJ-121	CalSim Strategic review excerpt p. 31 validation		Reyes	Excerpt of DDJ-101	witness recognized, testified	1. Public agency records, Evid. Code § 1280, Evid. Code § 721(b)(3)

DDJ-122	xc-gates CalSim NAA wresl code		Reyes	Modeling code excerpt	witness recognized, testified	2. Technical document, Evid. Code § 721(b)(1)
DDJ-123	San Francisco Estuary News March 14, 2016		Ringelberg	Contemporaneous report -- salinity intrusion in 2014	witness testified	Authenticated by Evid. Code § 645.1
DDJ-125	Clifton Court Ops					1. Public agency record, Evid. Code § 1280
DDJ-126	LR statement of Use EWRIMs			Board official record	witness testified	1. Public agency record, Evid. Code § 1280, Prior consistent statement by witness, Evid. Code § 1236
DDJ-127	LR statement of Use 2 EWRIMS			Board official record	witness testified	1. Public agency record, Evid. Code § 1280, Prior consistent statement by witness, Evid. Code § 1236
DDJ-128	Islands Inc Statement of Use EWRIMs		Islands Inc	Board official record	witness recognized, testified	1. Public agency record, Evid. Code § 1280, Prior consistent statement by witness, Evid. Code § 1236, Evid. Code 1414(a)
DDJ-129	(Cal. St. Water Res. Control Bd. Feb 4, 2015) Order WR 2015-0002-DWR			Board order	witness recognized	1. Public agency record, Evid. Code § 1280, 7. Board order, Title 23 CCR §§ 648.2, 648.3
DDJ-131	Drought Pushes Endangered Salmon to the Brink, <u>Veronique Dupont, Phys. Org., October 31, 2015</u>		Ringelberg		witness testified	Authenticated by Evid. Code § 645.1
DDJ-133	Delta Caucus comments on WaterFix, October 30, 2015		Van Loben Sels	Also part of SWRCB-3	witness signed, recognized, testified	4. Prior statement by witness, Evid. Code § 1414 (a)
DDJ-134	California Precipitation Map		Islands Inc.	Map	witnesses testified	5. Published map, Evid. Code § 1341
DDJ-135	Fall 1999 Interagency Ecological Program Newsletter		Ringelberg	Contemporaneous report -- 1999 HAB	witness recognized, testified	2. Scientific Article, Evid. Code § 721(b)(3)

DDJ-136	Lehman et. al., The influence of environmental conditions on the seasonal variation of Microcystis cell density and microcystins concentration in San Francisco Estuary, Hydrobiologica (2008)		Ringelberg	Treatise -- Scientific journal	witness referred to in testimony, testified	2. Scientific Article, Evid. Code § 721(b)(1)
DDJ-137	CDEC sensor 10993, Delta Cross Channel, tidal flow		Ringelberg	DWR data	witness testified	1. Public agency record, Evid. Code § 1280 6. Official data, Evid. Code § 1340, 2. Technical document, Evid. Code 721(b)(3)
DDJ-138	USGS sensor 11336600, Delta Cross Channel, tidally filtered flow		Ringelberg	USGS data	witness testified	1. Public agency record, Evid. Code § 1280 6. Official data, Evid. Code § 1340, 2. Technical document, Evid. Code 721(b)(3)
DDJ-139	Partial Hearing Transcript, August 9, 2016, p. 108, highlighted		Ringelberg	Board official record -- Transcript	witness testified	
DDJ-140	University of California Cooperative Extension, Stanislaus County, Estimating Leaching Fraction Requirements		Pritchard	Treatise -- Technical reference	witness testified	2. Technical Reference Document, Evid. Code § 721(b)(3)