

1 XAVIER BECERRA
 Attorney General of California
 2 ROBERT W. BYRNE
 Senior Assistant Attorney General
 3 TRACY L. WINSOR (SBN 186164)
 Supervising Deputy Attorney General
 4 COLLEEN R. FLANNERY (SBN 297957)
 DANIEL M. FUCHS (SBN 179033)
 5 ADAM LEVITAN (SBN 280226)
 SARA VAN LOH (SBN 264704)
 6 L. ELIZABETH SARINE (SBN 285631)
 Deputy Attorneys General
 7 1300 I Street, Suite 125
 P.O. Box 944255
 8 Sacramento, CA 94244-2550
 Tel: (916) 210-7827
 9 Fax: (916) 327-2319
 E-mail: Daniel.Fuchs@doj.ca.gov
 10 *Attorneys for Plaintiffs California Natural
 Resources Agency, California Environmental
 11 Protection Agency, and People of the State of
 California by and through Xavier Becerra, Attorney
 12 General of the State of California*

13 IN THE UNITED STATES DISTRICT COURT
 14 FOR THE EASTERN DISTRICT OF CALIFORNIA
 15

16 **THE CALIFORNIA NATURAL
 17 RESOURCES AGENCY, THE
 CALIFORNIA ENVIRONMENTAL
 18 PROTECTION AGENCY, THE PEOPLE
 OF THE STATE OF CALIFORNIA, BY
 19 AND THROUGH CALIFORNIA
 ATTORNEY GENERAL XAVIER
 20 BECERRA,**

Case No. 1:20-cv-00426-DAD-SKO

**FIRST AMENDED COMPLAINT FOR
 DECLARATORY AND
 INJUNCTIVE RELIEF**

21 Plaintiffs,

22 v.

23 **WILBUR ROSS, in his official capacity as
 24 Secretary of Commerce; CHRIS OLIVER,
 in his official capacity as Assistant
 25 Administrator for Fisheries at the National
 Oceanic and Atmospheric Administration;
 26 NATIONAL MARINE FISHERIES
 SERVICE; DAVID BERNHARDT, in his
 27 official capacity as Secretary of the Interior;
 28 AURELIA SKIPWITH, in her official
 capacity as Director, U.S. Fish and Wildlife**

1 **Service; U.S. FISH AND WILDLIFE**
2 **SERVICE; BRENDA BURMAN, in her**
3 **official capacity as Commissioner of the**
4 **Bureau of Reclamation; U.S. BUREAU OF**
5 **RECLAMATION,**

Defendants.

INTRODUCTION

6
7 1. The fish species listed as threatened or endangered under the federal Endangered
8 Species Act (ESA) residing in the Sacramento River and San Joaquin River watersheds of the
9 State of California have declined dramatically in abundance in the past decade. Recognizing this
10 undisputed fact, in 2016, the United States Bureau of Reclamation (Reclamation) reinitiated
11 consultation under Section 7 of the ESA as to the coordinated operations of the federal Central
12 Valley Project and the California State Water Project (the Proposed Action) with the stated
13 purpose of improving conditions for the listed species. However, the result of the reinitiated
14 consultation is contrary to its original stated purpose of responding to, among other things, recent
15 data demonstrating extremely low abundance levels for listed species. On October 21, 2019, the
16 National Marine Fisheries Service (NMFS) and the U.S. Fish and Wildlife Service (USFWS)
17 (together, the Services) issued biological opinions (the 2019 Biological Opinions) under the ESA
18 that, contrary to their findings of “no jeopardy,” approve significantly *reduced* protections for the
19 listed species and their designated critical habitat, thereby increasing the likelihood of their
20 extinction, contravening the requirements of Section 7 of the ESA and the ESA’s conservation
21 purpose.¹ Further, by issuing a Record of Decision adopting these defective biological opinions,
22 Reclamation has violated, and will continue to violate, federal law as described in this complaint.

23 2. California Attorney General Xavier Becerra, acting in his independent capacity as
24 representative of the People of the State of California; the California Natural Resources Agency
25 (Resources Agency); and the California Environmental Protection Agency (CalEPA) (together,

26
27 ¹ “Biological Opinion for the Reinitiation of Consultation on the Coordinated Operations
28 of the Central Valley Project and the State Water Project” (USFWS Biological Opinion);
“Biological Opinion on Long-term Operation of the Central Valley Project and the State Water
Project” (NMFS Biological Opinion).

1 California) bring this action to halt these law violations and prevent ongoing and irreparable harm
2 to California's natural resources.

3 3. California brings this civil action for declaratory and injunctive relief under the
4 Administrative Procedure Act (APA), 5 U.S.C. §§ 701–706, and alleges violation of the
5 Endangered Species Act (ESA), 16 U.S.C. §§ 1531–1544; the National Environmental Policy Act
6 (NEPA), 42 U.S.C. §§ 4321–4347, and its implementing regulations, 40 C.F.R. §§ 1500–1508;
7 and the California Endangered Species Act (CESA), Cal. Fish & Game Code §§ 2050–2089.25.

8 4. California seeks a declaration that the USFWS and NMFS each violated the ESA by
9 issuing biological opinions that are arbitrary, capricious, an abuse of discretion, and otherwise not
10 in accordance with law; that the Services' actions were "in excess of statutory jurisdiction,
11 authority, or limitations, or short of statutory right," 5 U.S.C. § 706(2)(C), and "without
12 observance of procedure required by law," *id.* § 706(2)(D); and that Reclamation violated and
13 continues to violate: (1) the ESA by adopting the 2019 Biological Opinions; (2) NEPA by issuing
14 a Record of Decision without adequately considering the environmental impacts; and (3) CESA
15 by taking CESA-listed species without authorization. California also seeks injunctive relief to
16 halt and redress the irreparable injuries caused by these legal violations.

17 **JURISDICTION**

18 5. This Court has jurisdiction pursuant to 28 U.S.C. § 1331 (actions arising under the
19 laws of the United States), 16 U.S.C. § 1540(c) (ESA), and 5 U.S.C. §§ 701–706 (APA). An
20 actual controversy exists between the parties within the meaning of 28 U.S.C. § 2201(a), and this
21 Court may grant declaratory relief, injunctive relief, and other relief pursuant to 28 U.S.C. §§
22 2201–2202 and 5 U.S.C. §§ 705–706.

23 6. On February 20, 2020, 60 days or more before the filing of this First Amended
24 Complaint, California provided Defendants with written notice of the violations of the
25 Endangered Species Act alleged here, as required by 16 U.S.C. §1540(g)(2). Letter to David
26 Bernhardt, Wilbur Ross, and Brenda Burman, Exhibit A.

27
28

1 **VENUE**

2 7. On March 20, 2020, the U.S. District Court for the Northern District of California
3 transferred this case to the Eastern District of California under 28 U.S.C. § 1404(a). Order
4 Transferring Case, ECF No. 27.

5 **PARTIES**

6 8. Plaintiff People of the State of California (People) bring this action by and through
7 the Attorney General. The Attorney General of California is the chief law enforcement officer of
8 the State and has the authority to file civil actions to protect public rights and interests, including
9 environmental protection. Cal. Const. art. V, § 13; Cal. Gov't Code §§ 12606–12612. This
10 challenge is brought pursuant to the Attorney General's independent, constitutional, common law,
11 and statutory authority to represent the public interest. The People have an interest in the use and
12 enjoyment of the fishery resources of the State for, *inter alia*, commercial and sport-fishing
13 purposes, as well as an interest in preserving and protecting these resources in their natural state
14 as part of the State's interrelated watershed ecology. *Nat'l Audubon Soc'y v. Superior Court*, 33
15 Cal. 3d 419, 434–35 (1983).

16 9. Plaintiff Resources Agency is one of eight cabinet-level agencies of the California
17 state government. Cal. Gov't Code § 12800. It is headed by a Secretary appointed by the
18 Governor and includes the California Department of Fish and Wildlife (CDFW) and the
19 Department of Water Resources (DWR). Cal. Gov't Code §§ 12801, 12805. CDFW has the
20 responsibility, along with the California Fish and Game Commission, of administering and
21 enforcing the California Fish and Game Code. Cal. Fish & Game Code § 702. CDFW is also
22 California's Trustee Agency for fish and wildlife resources, and holds those resources in trust by
23 statute for all the people of the State. Cal. Fish & Game Code §§ 711.7(a), 1802; Cal. Pub. Res.
24 Code § 21070; Cal. Code Regs. tit. 14, § 15386(a). CDFW, in its trustee capacity, has
25 jurisdiction over the conservation, protection, and management of fish, wildlife, native plants, and
26 habitat necessary for biologically sustainable populations of those species. Cal. Fish & Game
27 Code § 1802. DWR operates and maintains the State Water Project. Cal. Water Code §§ 123,
28 11451, 12931. Under Section 12850.4 of the California Government Code, the Resources

1 Agency, as a state cabinet agency, “shall exercise the authority vested in the Governor in respect
2 to the functions of each department, office, or other unit within the agency, including the
3 adjudication of conflicts between or among the departments, office, or other units; and shall
4 represent the Governor in coordinating the activities of each such department, office, other unit
5 with those of other agencies, federal, state, or local.”

6 10. Plaintiff CalEPA is also one of eight cabinet-level agencies of the California state
7 government. Cal. Gov’t Code § 12800. It is headed by a Secretary, appointed by the Governor,
8 and consists of, among others, the State Water Resources Control Board (State Water Board) and
9 the California Regional Water Quality Control Boards (Regional Water Boards). Cal. Gov’t
10 Code § 12812. The State Water Board exercises the adjudicatory and regulatory functions of the
11 state in the field of water resources. Cal. Water Code § 174. The State Water Board’s mission is
12 “[t]o preserve, enhance, and restore the quality of California’s water resources and drinking water
13 for the protection of the environment, public health, and all beneficial uses, and to ensure proper
14 water resource allocation and efficient use, for the benefit of present and future generations.”
15 State Water Resources Control Board, *Mission Statement*,
16 https://www.waterboards.ca.gov/about_us/water_boards_structure/mission.html (last updated Jan.
17 31, 2018).

18 11. The ESA specifically envisions a critical role for individual states to protect
19 endangered and threatened species. 16 U.S.C. § 1535(a) (“In carrying out the program authorized
20 by this chapter, the Secretary shall cooperate to the maximum extent practicable with the
21 States.”); see *Hughes v. Oklahoma*, 441 U.S. 322, 337 (1979) (“We consider the States’ interests
22 in conservation and protection of wild animals as legitimate local purposes similar to the States’
23 interests in protecting the health and safety of their citizens.”)

24 12. The State of California is the proprietary owner of all the State’s fish and wildlife and
25 water resources, which the State holds in trust for the benefit of the State’s people. Cal. Water
26 Code § 102; Cal. Fish & Game Code §§ 711.7, 1802; *People v. Truckee Lumber Co.*, 116 Cal.
27 397, 399 (1897); *Betchart v. Dep’t of Fish & Game*, 158 Cal. App. 3d 1104, 1106–07 (1984);
28 *Nat’l Audubon Soc’y*, 33 Cal. 3d at 434–35. California has a sovereign and statutorily mandated

1 interest in protecting species and their habitats within the state from harm. In addition, the State
2 of California has enacted numerous laws concerning the conservation, protection, restoration, and
3 enhancement of the State’s fish and wildlife resources, including endangered and threatened
4 species, and their habitats. As the Supreme Court has recognized, state plaintiffs are entitled to
5 “special solicitude” in seeking to remedy environmental harms. *See Massachusetts v. Envtl. Prot.*
6 *Agency*, 549 U.S. 497, 519–22 (2007).

7 13. California is uniquely harmed by Defendants’ actions, which threaten significant
8 harm to the natural resources of the State. Defendants’ actions described in this complaint will
9 disrupt the coordinated operations of the State Water Project and Central Valley Project, affecting
10 the imperiled species and habitats in the Sacramento River and San Joaquin River watersheds,
11 including the San Francisco Bay/Sacramento-San Joaquin Delta Estuary (Bay-Delta). This
12 disruption will detract from California’s efforts and resources to carry out its own programs and
13 impose significantly increased costs and burdens on the State. *See, e.g., California v. Azar*, 911
14 F.3d 558, 571–72 (9th Cir. 2018) (concluding that California had standing to challenge federal
15 rule due to “economic harm” to the state); *Air All. Houston v. Envtl. Prot. Agency*, 906 F.3d 1049,
16 1059–60 (D.C. Cir. 2018) (“Monetary expenditures to mitigate and recover from harms that could
17 have been prevented absent the [federal rule] are precisely the kind of ‘pocketbook’ injury that is
18 incurred by the state itself.”); *Texas v. United States*, 809 F.3d 134, 155 (5th Cir. 2015) (finding
19 that impacts on a state’s resources provides a basis for the state to establish standing).

20 14. Reclamation has harmed California’s procedural interests in participating in a legally
21 sound environmental review process that adequately considers the impacts of these operations on
22 California’s natural resources and provides appropriate mitigation measures for such impacts.
23 Specifically, Reclamation failed to take a “hard look” at the environmental impacts of adopting
24 and implementing the 2019 Biological Opinions, failed to sufficiently respond to comments on
25 the Proposed Action, and failed to demonstrate that it fully analyzed and will effectively mitigate
26 the full range of the Proposed Action’s effects.

27 15. Defendant Wilbur Ross is the Secretary of the Department of Commerce and is sued
28 in his official capacity. Secretary Ross is responsible for implementing the ESA for species under

1 the Department of Commerce's jurisdiction, including species under the jurisdiction of NMFS.
2 Secretary Ross is also responsible for implementing the consultation process set forth in Section 7
3 of the ESA for winter-run Chinook salmon, spring-run Chinook salmon, Central Valley steelhead,
4 North American green sturgeon, and the southern resident population of killer whales. 50 C.F.R.
5 § 402.01(a).

6 16. Defendant Chris Oliver is the Assistant Administrator for Fisheries at the National
7 Oceanic and Atmospheric Administration and is sued in his official capacity. By delegation, Mr.
8 Oliver holds the ESA responsibilities described in Paragraph 15. 50 C.F.R. § 402.01(b).

9 17. Defendant NMFS shares responsibility with USFWS in administering the ESA. 50
10 C.F.R. § 402.01(b).

11 18. Defendant David Bernhardt is the Secretary of the Department of the Interior and is
12 sued in his official capacity. Secretary Bernhardt is responsible for implementing the ESA for
13 species under the Department of the Interior's jurisdiction, including species under the
14 jurisdiction of the USFWS. As such, Secretary Bernhardt is also charged with implementing the
15 consultation process set forth in Section 7 of the ESA for Delta smelt. 50 C.F.R. § 402.01(a).
16 Secretary Bernhardt is also responsible for overseeing the Bureau of Reclamation and ensuring its
17 compliance with the law.

18 19. Defendant Aurelia Skipwith is the Director of the USFWS and is sued in her official
19 capacity. By delegation, Ms. Skipwith holds the ESA responsibilities described in Paragraph 18.
20 50 C.F.R. § 402.01(b).

21 20. Defendant USFWS shares responsibility with NMFS in administering the ESA. 50
22 C.F.R. § 402.01(b).

23 21. Defendant Reclamation is an agency within the United States Department of the
24 Interior. Reclamation operates the Central Valley Project.

25 22. Defendant Brenda Burman is the Commissioner of the United States Bureau of
26 Reclamation, and is sued in her official capacity.

27 23. Each defendant named in this action is responsible in whole or in part for the claims
28 alleged in the complaint.

FACTUAL BACKGROUND

I. THE CENTRAL VALLEY PROJECT AND THE STATE WATER PROJECT

24. The Central Valley Project and the State Water Project are the two largest water projects in California. The Central Valley Project consists of 20 dams and reservoirs that deliver water to 29 of California’s 58 counties for agricultural, municipal, and industrial uses, primarily in the Central Valley and the San Francisco Bay Area. The Central Valley Project delivers approximately 5.6 million acre-feet of water a year on average to 270 water supply contractors.

25. DWR operates the State Water Project. The State Water Project’s main storage facilities are Oroville Dam and San Luis Reservoir, which it operates jointly with Reclamation. DWR operates these facilities along with pumping plants, connecting canals, and aqueducts to deliver water to the Feather River Area, North Bay Area, South Bay Area, San Joaquin Valley, Central Coast, and Southern California for agricultural, municipal, and industrial uses. The State Water Project delivers on average 2.6 million acre-feet of water a year to 29 public water agencies.

26. The Central Valley Project harms ESA- and CESA-listed fish species in the Sacramento River and San Joaquin River watersheds by, for example, directly taking fish at the project’s South Delta pumping facility, redirecting fish from their migratory pathways, and altering the species’ natural habitat. Habitat alterations resulting from project operations include changes to river flow, hydrology, salinity, and water temperature.

II. SPECIES AFFECTED BY THE CENTRAL VALLEY PROJECT

27. The Central Valley Project exports water from “an important habitat for thousands of river and anadromous fish, many of which are endangered.” *San Luis & Delta-Mendota Water Auth. v. Locke*, 776 F.3d 971, 980–81 (9th Cir. 2014).

28. Central Valley Project operations impact several fish species that are listed as threatened and endangered under the ESA and/or CESA, including the Delta smelt (*Hypomesus*

1 *transpacificus*), the Central Valley winter-run² and spring-run³ Chinook salmon (*Oncorhynchus*
2 *tshawytscha*), the Central Valley steelhead (*Oncorhynchus mykiss irideus*),⁴ and the longfin smelt
3 (*Spirinchus thaleichthys*).

4 **A. Delta Smelt**

5 29. The Delta smelt is a small fish that typically does not exceed 4.5 inches
6 (approximately 120 mm) in length. The majority of Delta smelt live only one year. Delta smelt
7 generally spawn from February through May in various locations from Suisun Bay and Marsh
8 and eastward into the Sacramento-San Joaquin Delta. Smelt larvae hatch and enter the juvenile
9 life stage by June or early July. Most of the juvenile fish continue to rear in habitats within
10 Suisun Bay and Marsh, while smaller subsets of the population rear in more eastward areas,
11 principally along the Sacramento River-Cache Slough corridor. The fish develop into maturing
12 adults in the fall, at which time their spatial distribution expands.

13 30. USFWS listed the Delta smelt as a threatened species under the ESA on March 5,
14 1993. 58 Fed. Reg. 12,854. USFWS designated critical habitat for the Delta smelt on December
15 19, 1994. 59 Fed. Reg. 65,256. The Delta smelt is listed as endangered under CESA. Cal. Code
16 Regs. tit. 14, § 670.5(a)(2)(O). As USFWS has acknowledged, the Delta smelt's relative
17 abundance has reached very low numbers and the species is approaching extinction in the wild.

18 **B. Sacramento River Winter-Run Chinook Salmon**

19 31. Adult winter-run salmon typically migrate upstream through the Sacramento-San
20 Joaquin Delta from November through July, with the peak presence from February through April.
21 The winter-run salmon spawn during the spring and summer months in the upper Sacramento
22 River. Emigrating juvenile winter-run salmon occur in the Sacramento-San Joaquin Delta
23 primarily in November through early May.

24 _____
25 ² This term refers to the Sacramento River winter-run evolutionarily significant unit of
26 Chinook salmon, described as winter-run populations in the Sacramento River and its tributaries
27 in California.

28 ³ This term refers to Central Valley spring-run evolutionarily significant unit of Chinook
salmon, including populations of spring-run Chinook salmon in the Sacramento River and its
tributaries such as the Feather River.

⁴ This term refers to the California Central Valley distinct population segment of
steelhead, described as inhabiting the Sacramento and San Joaquin Rivers and their tributaries.

1 32. The ocean life cycle of the Chinook salmon lasts between 1 and 5 years. Shasta Dam
2 blocks the winter-run salmon's access to its historical spawning and rearing area in the upper
3 Sacramento River. Salmon that had previously spawned upstream of Shasta Dam have been
4 forced to spawn downstream of Keswick Dam on the Sacramento River. The cold-water
5 management of Shasta Dam presently supports a single winter-run salmon population below the
6 dam.

7 33. NMFS listed the winter-run salmon as a threatened species under the ESA on August
8 4, 1989, 58 Fed. Reg. 32,065, and raised its status to endangered on January 4, 1994. 59 Fed.
9 Reg. 440. NMFS designated critical habitat for winter-run salmon on June 16, 1993. 58 Fed.
10 Reg. 33,212. The winter-run salmon are listed as endangered under CESA. Cal. Code Regs. tit.
11 14, § 670.5(a)(2)(M). The extinction risk for the winter-run Chinook salmon has increased from
12 moderate to high since 2005.

13 **C. Spring-Run Chinook Salmon**

14 34. Adult spring-run salmon typically begin their upstream migration in the Bay-Delta
15 region in January and February and are present in the Sacramento River and its tributaries from
16 March through October. Spawning occurs in the Sacramento River and its tributaries from mid-
17 August through October. Juvenile spring-run salmon generally are found in the Bay-Delta region
18 between December and May but can be present year-round. Like winter-run salmon, the ocean
19 life cycle of the spring-run Chinook salmon lasts between 1 and 5 years.

20 35. NMFS listed the spring-run salmon as threatened under the ESA on September 16,
21 1999, 64 Fed. Reg. 50,394, and reaffirmed that status on June 28, 2005. 70 Fed. Reg. 37,160.
22 NMFS designated critical habitat for spring-run salmon on September 2, 2005. 70 Fed. Reg.
23 52,488. The spring-run salmon is listed as threatened under CESA. Cal. Code Regs. tit. 14, §
24 670.5(b)(2)(C). The spring-run salmon is at a moderate risk of extinction, although there is
25 concern that certain spring-run salmon strongholds will deteriorate into high extinction risk in the
26 coming years, a fact that NMFS acknowledges.

1 **D. Central Valley Steelhead**

2 36. The majority of the Central Valley steelhead, a type of salmonid, originate in the
3 Sacramento River basin, although a small population exists in tributaries to the San Joaquin
4 River. Spawning adult steelhead generally enter the San Francisco Bay estuary and Delta from
5 August through April. Spawning occurs from December through April. In the Sacramento River,
6 steelhead generally migrate to the ocean from early winter to early summer, but can be present
7 year-round. In the San Joaquin River, emigration of steelhead generally occurs from February to
8 June.

9 37. NMFS listed the Central Valley steelhead as threatened on March 19, 1998, 65 Fed.
10 Reg. 13,347, and reaffirmed that status on January 5, 2006, 71 Fed. Reg. 834. NMFS designated
11 critical habitat for the Central Valley steelhead on September 2, 2005. 70 Fed. Reg. 52,488. The
12 natural-origin steelhead population is at a high risk of extinction.

13 **E. Longfin Smelt**

14 38. Longfin smelt are translucent silver fish with an olive-to-grayish-brown back and
15 pinkish iridescence laterally. They have a predominantly two-year life cycle and reach lengths of
16 90–124 mm, though some live a third year and reach maximum lengths of about 140-150 mm.
17 Longfin smelt use the entire San Francisco estuary from the freshwater Sacramento-San Joaquin
18 Delta downstream to South San Francisco Bay and out into coastal marine waters.

19 39. Longfin smelt larvae hatch during the coldest water temperatures of the year.
20 Recently hatched larvae become abundant in January, typically peak in February, and decline
21 March through May. Mature fish migrate upstream to Suisun Bay and the western Sacramento-
22 San Joaquin Delta in preparation for spawning. Water quality in the longfin smelt incubation and
23 early nursery areas of the Sacramento-San Joaquin Delta and Suisun Bay is critical for the San
24 Francisco estuary population. Eggs, larvae, and small juvenile longfin smelt require adequate
25 winter-spring river flows from spawning habitat and require suitable brackish-water rearing
26 habitat.

27 40. USFWS has made preliminary estimates of adult longfin smelt abundance during fall
28 months within the upper San Francisco estuary for the period 1975–2007. The estimates suggest

1 that abundance peaked in the “tens of millions” in 1982 and declined to the “tens of thousands”
2 by 2007.

3 41. On June 26, 2009, the State of California listed the longfin smelt as threatened under
4 the California Endangered Species Act. Cal. Code Regs. tit. 14, § 670.5(b)(2)(E).

5 **STATUTORY AND REGULATORY FRAMEWORK**

6 **I. THE ENDANGERED SPECIES ACT**

7 42. Congress enacted the ESA over 46 years ago in a bipartisan effort “to halt and reverse
8 the trend toward species extinction, whatever the cost.” *Tennessee Valley Auth. v. Hill*, 437 U.S.
9 153, 184 (1978). The ESA constitutes “the most comprehensive legislation for the preservation
10 of endangered species ever enacted by any nation.” *Id.* at 180. The ESA’s fundamental purposes
11 are to “provide a means whereby the ecosystems upon which endangered species and threatened
12 species depend may be conserved, [and] to provide a program for the conservation of such
13 endangered species and threatened species” 16 U.S.C. § 1531(b). The ESA declares “the
14 policy of Congress” to be “that all Federal departments and agencies shall seek to conserve
15 endangered species and threatened species and shall utilize their authorities in furtherance of the
16 purposes of [the ESA].” *Id.* § 1531(c)(1). The ESA defines “conserve” broadly as “to use and
17 the use of all methods and procedures which are necessary to bring any endangered species or
18 threatened species to the point at which the measures provided pursuant to this chapter are no
19 longer necessary.” *Id.* § 1532(3). In pursuing these goals, the ESA further declares “the policy of
20 Congress” to be “that Federal agencies shall cooperate with State and local agencies to resolve
21 water resource issues in concert with conservation of endangered species.” *Id.* § 1531(c)(2).

22 43. Section 9 of the ESA prohibits any “person” from “taking” any endangered fish or
23 wildlife species. *Id.* § 1538(a)(1)(B), (G). “Person” is defined in the ESA to include “any officer,
24 employee, agent, department, or instrumentality of the Federal Government . . .” and therefore
25 includes federal agencies such as Reclamation. *Id.* § 1532(13). “Take” is defined as to “harass,
26 harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect or attempt to engage in any such
27 conduct.” *Id.* § 1532(19). “Harass” means “an intentional or negligent act or omission which
28 creates the likelihood of injury to wildlife by annoying it to such an extent as to significantly

1 disrupt normal behavioral patterns which include, but are not limited to, breeding, feeding, or
2 sheltering.” 50 C.F.R. § 17.3. “Harm” means “an act which actually kills or injures wildlife,”
3 and may include “significant habitat modification or degradation where it actually kills or injures
4 wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or
5 sheltering.” *Id.*

6 44. Section 7 of the ESA requires all federal agencies to “utilize their authorities in
7 furtherance of the purposes of [the ESA] by carrying out programs for the conservation of
8 endangered species and threatened species” 16 U.S.C. § 1536(a)(1). It also requires all
9 federal agencies to ensure that any actions they authorize, fund, or carry out are “not likely to
10 jeopardize the continued existence of any listed species or destroy or adversely modify their
11 designated critical habitat.” *Id.* § 1536(a)(2).

12 45. “Jeopardize the continued existence of” an endangered species “means to engage in
13 an action that reasonably would be expected, directly or indirectly, to reduce appreciably the
14 likelihood of both the survival and recovery of a listed species in the wild by reducing the
15 reproduction, numbers, or distribution of that species.” 50 C.F.R. § 402.02.

16 46. “Destruction or adverse modification means a direct or indirect alteration that
17 appreciably diminishes the value of critical habitat for the conservation of a listed species. Such
18 alterations may include, but are not limited to, those that alter the physical or biological features
19 essential to the conservation of a species or that preclude or significantly delay development of
20 such features.” Interagency Cooperation—Endangered Species Act of 1973, as Amended, 81
21 Fed. Reg. 7,214 (Feb. 11, 2016).⁵

22 47. Any federal agency proposing an action that may affect a listed species must consult
23 with either NMFS or USFWS, depending on the species involved. *Turtle Island Restoration*
24 *Network v. U.S. Dep’t of Commerce*, 878 F.3d 725 (9th Cir. 2017). The relevant Service then
25 reviews the proposed action and prepares a biological opinion evaluating whether and how the

26 ⁵ On August 27, 2019, the Services published a final rule (84 Fed. Reg. 44,976) to revise
27 portions of the regulations that implement Section 7 of the ESA. The rule became effective on
28 October 28, 2019, a week after the 2019 Biological Opinions were issued on October 21, 2019.
See 84 Fed. Reg. 50,333 (Sept. 25, 2019). The relevant version of the regulations is the version
that was in effect when the opinions were issued.

1 action will impact the species. *Id.* (citing 16 U.S.C. § 1536(b); 50 C.F.R. § 402.12). If the
2 opinion finds species jeopardy or adverse habitat modification, then the opinion must include
3 additional species-protective measures called “reasonable and prudent alternatives.” 16 U.S.C.
4 § 1536(b)(3)(A). If the biological opinion finds that the proposed action would not jeopardize the
5 listed species’ continued existence, the Service can issue a statement permitting the incidental
6 “take” of a certain number of protected animals. *Id.* § 1536(b)(4). The incidental take statement
7 must specify the impact of the incidental take on the species and include protective measures to
8 minimize those impacts as the Services deem necessary or appropriate. *Id.* § 1536(b)(4)(C).

9 **II. THE NATIONAL ENVIRONMENTAL POLICY ACT**

10 48. The National Environmental Policy Act (NEPA), 42 U.S.C. § 4321, et seq. “is our
11 basic national charter for protection of the environment.” 40 C.F.R. § 1500.1(a). Congress
12 enacted NEPA in 1969 “to create and maintain conditions under which man and nature can exist
13 in productive harmony, and fulfill the social, economic, and other requirements of present and
14 future generations of Americans.” 42 U.S.C. § 4331(a). NEPA has two fundamental purposes:
15 (1) to guarantee that, before taking an action, federal agencies take a “hard look” at the
16 consequences of those actions, ensuring that “the agency, in reaching its decision, will have
17 available, and will carefully consider, detailed information concerning significant environmental
18 impacts;” and (2) to ensure that “the relevant information will be made available to the larger
19 audience that may also play a role in both the decisionmaking process and the implementation of
20 that decision.” *Robertson v. Methow Valley Citizens Council*, 490 U.S. 332, 349–50 (1989).

21 49. To achieve these dual purposes, NEPA requires the preparation of a detailed
22 environmental impact statement (EIS) for any “major Federal actions significantly affecting the
23 quality of the human environment.” 42 U.S.C. § 4332(2)(C). NEPA’s implementing regulations
24 broadly define such actions to include “new or revised agency rules, regulations, plans, policies,
25 or procedures.” 40 C.F.R. § 1508.18(a). In preparing environmental impact statements, federal
26 agencies must consider all of the direct, indirect, and cumulative impacts of their proposed
27 actions. 40 C.F.R. §§ 1502.16, 1508.7, 1508.8(a), (b); *City of Carmel-By-The-Sea v. U.S. Dep’t*
28

1 of *Transp.*, 123 F.3d 1142, 1162 (9th Cir. 1997); *Neighbors of Cuddy Mountain v. U.S. Forest*
2 *Serv.*, 137 F.3d 1372, 1378 (9th Cir. 1998).

3 50. The “heart of the environmental impact statement” is its analysis of alternatives to the
4 agency’s proposed action. 42 U.S.C. § 1502.14. Agencies must “[r]igorously explore and
5 objectively evaluate all reasonable alternatives,” including by presenting “the environmental
6 impacts of the proposal and the alternatives in comparative form, thus sharply defining the issues
7 and providing a clear basis for choice among options by the decisionmaker and the public.” 40
8 C.F.R. § 1502.14; *see also League of Wilderness Defs./Blue Mountains Biodiversity Project v.*
9 *U.S. Forest Serv.*, 689 F.3d 1060, 1069 (9th Cir. 2012).

10 51. NEPA also requires agencies to consider measures to “mitigate adverse
11 environmental impacts.” 40 C.F.R. § 1502.16(h). An environmental impact statement must
12 discuss such mitigation measures “with sufficient detail to ensure that environmental
13 consequences have been fairly evaluated,” including by addressing whether the measures “can be
14 effective” at reducing environmental impacts. *S. Fork Band Council of W. Shoshone of Nev. v.*
15 *U.S. Dep’t of Interior*, 588 F.3d 718, 727 (9th Cir. 2009) (quoting *Robertson*, 490 U.S. at 348).

16 52. NEPA also requires an agency, when preparing an environmental impact statement,
17 to include a discussion of “[p]ossible conflicts between the proposed action and the objectives of”
18 state and local laws, plans, and policies. 40 C.F.R. §§ 1502.16(c), 1506.2(d); *see also* 43 C.F.R.
19 § 1610.3-2.

20 **III. THE ADMINISTRATIVE PROCEDURE ACT**

21 53. The APA governs the procedural requirements for agency decisionmaking and
22 provides the standard of review for a federal agency’s compliance with NEPA and the ESA.
23 Under the APA, a “reviewing court shall ... hold unlawful and set aside” agency action, findings,
24 or conclusions found to be “arbitrary, capricious, an abuse of discretion, or otherwise not in
25 accordance with law,” “in excess of statutory jurisdiction, authority, or limitations, or short of
26 statutory right,” or “without observance of procedure required by law.” 5 U.S.C. § 706. An
27 agency action is arbitrary and capricious under the APA when the agency (1) has relied on factors
28 which Congress has not intended it to consider; (2) entirely failed to consider an important aspect

1 of the problem; (3) offered an explanation for its decision that runs counter to the evidence before
2 the agency; or (4) is so implausible that it could not be ascribed to a difference of view or the
3 product of agency expertise. *Motor Vehicle Mfrs. Ass'n of U.S., Inc. v. State Farm Mut. Auto.*
4 *Ins. Co.*, 463 U.S. 29, 43 (1983).

5 54. “Agencies are free to change their existing policies,” but they must “provide a
6 reasoned explanation for the change.” *Encino Motorcars, LLC v. Navarro*, 136 S. Ct. 2117, 2125
7 (2016) (citing *Nat'l Cable & Telecomms. Ass'n v. Brand X Internet Servs.*, 545 U.S. 967, 981–82
8 (2005)). While an agency need not show that a new policy is “better” than the rule it replaced, it
9 still must demonstrate “that the new policy is permissible under the statute, that there are good
10 reasons for it, and that the agency *believes* it to be better, which the conscious change of course
11 adequately indicates.” *FCC v. Fox Television Stations, Inc.*, 556 U.S. 502, 515 (2009) (emphasis
12 in original). Further, an agency must “provide a more detailed justification than what would
13 suffice for a new policy created on a blank slate” when “its new policy rests upon factual findings
14 that contradict those which underlay its prior policy; or when its prior policy has engendered
15 serious reliance interests that must be taken into account.” *Id.* An “[u]nexplained inconsistency”
16 in agency policy is “a reason for holding an interpretation to be an arbitrary and capricious
17 change from agency practice.” *Nat'l Cable & Telecomms. Ass'n*, 545 U.S. at 981.

18 **IV. THE CALIFORNIA ENDANGERED SPECIES ACT (CESA)**

19 55. The California Endangered Species Act (CESA) provides, “No person or public
20 agency shall . . . take” an endangered or threatened species unless such take is otherwise
21 authorized by law. Cal. Fish & Game Code § 2080. The California Fish and Game Code defines
22 “take” to mean to “hunt, pursue, catch, capture, or kill, or to attempt to hunt, pursue, catch,
23 capture, or kill” a CESA-listed species. Cal Fish & Game Code § 86. Reclamation is a “person
24 or public agency” within the meaning of CESA.

25 56. CESA enables CDFW to authorize incidental take through specific statutory
26 processes. CDFW may issue an incidental take permit for any CESA-listed or candidate species
27 if, among other things, the impacts of the take are “minimized and fully mitigated,” and if
28 issuance of the permit would not “jeopardize the continued existence of the species.” *Id.*

1 § 2081(b), (c). Alternatively, if the species that would be taken is protected under CESA and also
2 listed under ESA, a person holding a federal take authorization may request that CDFW
3 determine whether the federal authorization is consistent with CESA. Cal. Fish & Game Code §
4 2080.1. If CDFW’s director determines that there is consistency, no further authorization is
5 necessary for that person to take the species in accordance with the federal authorization. *Id.*
6 The state may obtain an injunction to prevent unauthorized “incidental destruction” of CESA-
7 listed fish during the otherwise lawful diversion of water. *Dep’t of Fish & Game v. Anderson-*
8 *Cottonwood Irrigation Dist.*, 8 Cal. App. 4th 1554, 1568 (1992).

9 57. CESA is a state law “relating to the control, appropriation, use, or distribution of
10 water used in irrigation” within the meaning of Section 8 of the Reclamation Act of 1902, which
11 provides that the Act is not to be construed as interfering with state laws “relating to the control,
12 appropriation, use, or distribution of water used in irrigation” and that “the Secretary of the
13 Interior, in carrying out the provisions of [the] Act, shall proceed in conformity with such laws . .
14 . . .” 43 U.S.C. § 383.

15 **V. THE CENTRAL VALLEY PROJECT IMPROVEMENT ACT (CVPIA)**

16 58. The CVPIA, enacted in 1992 as Title 34 of Public Law 102-575, mandated changes in
17 management of the Central Valley Project, particularly for the protection, restoration, and
18 enhancement of fish and wildlife.

19 59. Ten major areas of change include: 800,000 acre-feet of water dedicated to fish and
20 wildlife annually; tiered water pricing applicable to new and renewed contracts; water transfers
21 provision, including sale of water to users outside the Central Valley Project service area; special
22 efforts to restore anadromous fish population by 2002; restoration fund financed by water and
23 power users for habitat restoration and enhancement and water and land acquisitions; no new
24 water contracts until fish and wildlife goals achieved; no contract renewals until completion of a
25 Programmatic Environmental Impact Statement; terms of contracts reduced from 40 to 25 years
26 with renewal at the discretion of the Secretary of the Interior; installation of the temperature
27 control device at Shasta Dam; implementation of fish passage measures at Red Bluff Diversion
28 Dam; firm water supplies for Central Valley wildlife refuges; and development of a plan to

1 increase Central Valley Project yield. Section 3406(b) of the CVPIA requires Reclamation to
2 comply with applicable California law. It states that Reclamation “shall operate the Central
3 Valley Project to meet all obligations under State and Federal law.” CVPIA § 3406(b), Pub. L.
4 No. 102-575, 106 Stat. 4707, 4714 (1992).

5 60. The CVPIA also requires Reclamation to “cooperate with the State of California” and
6 refers to “additional obligations of the Central Valley Project which may be imposed by the State
7 of California.” *Id.* § 3406(b)(1)(C).

8 **VI. THE WATER INFRASTRUCTURE IMPROVEMENTS FOR THE NATION ACT (WIIN ACT)**

9 61. The WIIN Act, enacted in 2016 as Public Law No. 114-322, addresses, supports, and
10 improves America's drinking water infrastructure.

11 62. Section 4002(a) of the WIIN Act prohibits increased pumping that “would be
12 inconsistent with applicable State law requirements.”

13 63. Section 4005(b)(4) of the WIIN Act states, “Nothing in the applicable provisions of
14 this subtitle shall have any effect on the application of the California Endangered Species
15 Act”

16 **THE CENTRAL VALLEY PROJECT OPERATIONS REVISION PROCESS**

17 **I. OPERATION OF THE CENTRAL VALLEY PROJECT BEFORE THE ACTIONS AT ISSUE**

18 64. Reclamation’s operation of the Central Valley Project results in incidental take of
19 listed species, which is illegal without incidental take authorization. Reclamation and DWR have
20 previously obtained incidental take authorization through the consultation process set forth in
21 ESA Section 7 for the coordinated operation of the Central Valley Project and the State Water
22 Project. *See* 16 U.S.C. § 1536.

23 65. On December 15, 2008, USFWS issued a biological opinion on the coordinated
24 operation of the Central Valley Project and the State Water Project (2008 USFW Biological
25 Opinion). The 2008 USFWS BiOp found that the proposed project operations would likely
26 jeopardize the continued existence of the Delta smelt and would adversely modify Delta smelt
27 critical habitat.
28

1 66. On June 4, 2009, NMFS also issued a biological opinion on the coordinated
2 operations of the Central Valley Project and the State Water Project (2009 NMFS Biological
3 Opinion). The 2009 NMFS opinion found that the proposed project operations would likely
4 jeopardize the continued existence of the federally listed Sacramento River winter-run salmon,
5 the Central Valley spring-run salmon, the Central Valley steelhead, the North American green
6 sturgeon, and the Southern Resident killer whales, and would adversely modify the critical habitat
7 for the winter-run salmon, the spring-run salmon, and the steelhead.

8 67. In light of these findings, and in an attempt to avoid ongoing jeopardy to these listed
9 species and destruction or adverse modification of designated critical habitat resulting from the
10 coordinated operations of the Central Valley Project and the State Water Project, both the 2008
11 USFWS opinion and the 2009 NMFS opinion included reasonable and prudent alternatives that
12 imposed new fishery protection measures on the Central Valley Project and State Water Project
13 that were not part of the projects' original plan of operations.

14 **II. REINITIATION OF CONSULTATION AND SUBSEQUENT EVENTS**

15 68. As discussed above, populations of the affected listed species have continued to
16 decline since 2008 and 2009, prompting Reclamation and DWR to request reinitiation of Section
17 7 consultation pursuant to 50 C.F.R. § 402.16. With respect to Delta smelt, for example, in 2018,
18 the California Department of Fish and Wildlife's Fall Midwater Trawl Survey index was zero for
19 the first time, and the Summer Towntnet Survey has been zero four times since 2015. The Delta
20 smelt population has declined so significantly that it is essentially undetectable by long-term
21 surveys, and it is approaching extinction in the wild. The abundance of listed salmonid species
22 has also greatly declined as they have faced increasingly challenging conditions.

23 69. On August 2, 2016, Reclamation and DWR requested reinitiation of consultation with
24 both USFWS and NMFS on the coordinated operations of the Central Valley Project and the State
25 Water Project due to new information related to the ongoing drought and recent data showing
26 extremely low population levels of Delta smelt and winter-run Chinook salmon. New
27 information was also then available based on the ongoing work of collaborative science
28 processes.

1 70. On August 3, 2016, USFWS accepted Reclamation’s request to reinitiate consultation
2 regarding operations of the Central Valley Project and State Water Project under the 2008
3 USFWS Biological Opinion. USFWS’s acceptance letter stated, “We recognize that this new
4 information is demonstrating the increasingly imperiled state of the Delta Smelt and its
5 designated critical habitat, and that emerging science shows the importance of outflows to all life
6 stages of Delta Smelt and to maintaining the primary constituent elements of designated critical
7 habitat.”

8 71. On August 17, 2016, NMFS accepted Reclamation’s request to reinitiate consultation
9 regarding project operations under the 2009 NMFS Biological Opinion. NMFS’s acceptance
10 letter stated, “We agree that reinitiation is required under the terms of the 2009 Biological
11 Opinion and ESA regulations (50 CFR 402.16). Reasons for the reinitiation include new
12 information related to the effects of multiple years of drought, recent data demonstrating
13 extremely low abundance levels for endangered Sacramento River winter-run Chinook salmon
14 and threatened Central Valley spring-run Chinook salmon, and new information resulting from
15 ongoing scientific collaboration.”

16 72. In an August 30, 2016 memorandum, Interior Secretary Sally Jewell stated, “The
17 reinitiation process will likely lead to new or amended biological opinions that will increase
18 protections for” the Delta smelt and winter-run Chinook salmon. She further stated, “The
19 timeframe being contemplated should allow the new Administration to establish itself before new
20 biological opinions are issued that could lead to further reductions in water availability south of
21 the Delta.” In Secretarial Order No. 3343, issued on January 3, 2017, Secretary Jewell confirmed
22 the decline in listed species in the Delta, stating: “The population of Delta Smelt, an annual
23 species found only in the Delta, is at an all-time low. The Spring Kodiak Trawl Index for Delta
24 Smelt has continued a downward slide and is 90 percent lower in 2016 than the previous historic
25 low.” Order No. 3343 further states: “Winter-run Chinook salmon populations are also at very
26 low levels. Over the last 10 years of available data (2003–2013), the abundance of spawning
27 Winter-run Chinook salmon adults ranged from a low of 738 in 2011 to a high of 17,197 in 2007,
28

1 with an average of 6,298. This is in stark contrast to an average abundance of 87,000 spawning
2 adults in the late 1960s.”

3 73. Order No. 3343 further notes that in 2016, Reclamation released the “Sacramento and
4 San Joaquin Rivers Basin Study” (Basin Study) assessing the potential effects of climate change
5 on the Delta. Order No. 3343 identifies the following three key findings in the Basin Study: (1)
6 temperatures are projected to increase steadily during the century, with changes generally
7 increasing from about 1.6 degrees Fahrenheit (°F) in the early 21st century to almost 4.8°F in the
8 Sierra Nevada Mountains late in the 21st century; (2) snowpack will likely decline considerably
9 due to warming, particularly in the lower elevations of the mountains surrounding the Central
10 Valley, affecting timing and amount of runoff; and (3) sea levels are expected to rise.

11 74. On December 29, 2017, Reclamation published in the Federal Register a Notice of
12 Intent to Prepare a Draft Environmental Impact Statement, Revisions to the Coordinated Long-
13 Term Operation of the Central Valley Project and State Water Project, and Related Facilities,
14 noting that it “propose[d] to evaluate alternatives that maximize water deliveries and optimize
15 marketable power generation.” 82 Fed. Reg. 61,789.

16 75. On October 19, 2018, President Donald Trump issued a presidential memorandum
17 entitled “Presidential Memorandum on Promoting the Reliable Supply and Delivery of Water in
18 the West.” 83 Fed. Reg. 53,961. The memorandum directed the Secretary of the Interior and the
19 Secretary of Commerce to take steps “to minimize unnecessary regulatory burdens and foster
20 more efficient decision-making so that water projects are better able to meet the demands of their
21 authorized purposes” and urged the expedited completion of the reinitiation of consultation under
22 the 2008 and 2009 Biological Opinions. The memorandum required completion of the final
23 biological opinions for the long-term coordinated operations of the Projects by June 15, 2019. *Id.*

24 76. On January 31, 2019, Reclamation issued a “Biological Assessment for the
25 Reinitiation of Consultation on Coordinated Long-Term Operation of the Central Valley Project
26 and State Water Project,” which set forth the revisions to the Central Valley Project’s operations
27 that Reclamation proposed to make. These revisions included, among other things, a tiered
28 strategy for cold water management of Shasta reservoir, changes to operations of the Delta Cross

1 Channel gates, increases to permitted diversions from both the Sacramento and San Joaquin
2 Rivers, and new rules for the management of Old and Middle River intended to maximize
3 exports. This Biological Assessment was forwarded to USFWS and NMFS for their use in
4 drafting their respective biological opinions.

5 77. On or about June 6, 2019, USFWS completed its draft biological opinion for the
6 Delta smelt. On or about July 1, 2019, NMFS completed its draft biological opinion for the
7 salmonid species. The draft NMFS Biological Opinion found that Reclamation's proposed
8 revisions to its Central Valley Project operations would cause jeopardy and adverse modification
9 of critical habitat for winter-run Chinook salmon, spring-run Chinook salmon, Central Valley
10 steelhead, and southern resident killer whales. For that reason, the draft NMFS Biological
11 Opinion included "reasonable and prudent alternatives" designed to avoid jeopardizing the
12 species. However, neither of these drafts were formally released.

13 78. On July 12, 2019, Reclamation issued a Draft Environmental Impact Statement (Draft
14 EIS), which set forth Reclamation's analysis of the potential effects associated with long-term
15 operations of the Central Valley Project and State Water Project. Reclamation received
16 approximately 1,030 comments on the Draft EIS.

17 79. On August 21, 2019, CDFW submitted its "Comments on the Reinitiation of
18 Consultation on the Coordinated Long-Term Operation of the Central Valley Project and State
19 Water Project Draft Environmental Impact Statement."

20 80. CDFW's comments described key concerns regarding Reclamation's Draft EIS.
21 These included, but were not limited to, that the Draft EIS:

22 (1) performed no quantitative analysis to support its conclusion that increased flows in the
23 Sacramento River under Alternative 1 may offset the impacts associated with increased
24 entrainment risk of Sacramento River origin fall-run Chinook salmon;

25 (2) did not recognize the effects of reduced Keswick Dam flows downstream of Shasta
26 Dam on incubating fall- and spring-run Chinook salmon eggs and embryos due to increased
27 water temperatures near redds (nests dug for egg-laying in the gravel of stream or shallow
28 lake-shore waters), lowered velocities resulting in lower dissolved oxygen, and de-watering

1 of redds resulting in suffocation of eggs and stranding of emergent alevins/fry in the
2 Sacramento River;

3 (3) proposed temperature management in the upper Sacramento River that did not protect
4 the winter-run or spring-run Chinook salmon;

5 (4) assigned final decisionmaking authority over real-time operations of Old and Middle
6 River flows not to the agencies responsible for issuing take authorization under the federal
7 and state endangered species acts, USFWS, NMFS, and CDFW, but to the project
8 operators; and

9 (5) acknowledged that reduced winter-spring Delta outflow and increased entrainment risk
10 associated with Alternative 1 may impact the CESA-listed longfin smelt, but included no
11 proposed minimization or mitigation measures to avoid or minimize such adverse
12 environmental impacts.

13 81. On September 25, 2019, the State Water Board submitted to Reclamation its
14 “Comments on Draft Environmental Impact Statement for the Reinitiation of Consultation on the
15 Coordinated Long-Term Operation of the Central Valley Project and State Water Project.” The
16 State Water Board’s comments included, but were not limited to, the following:

17 (1) the Proposed Project increases water deliveries and exports, increases reverse flows, and
18 decreases Delta outflows, but available scientific knowledge indicates that decreasing
19 freshwater flows in the Bay-Delta watershed and increasing exports and associated reverse
20 flows in the interior Delta is expected to have a negative impact on the survival and
21 abundance of native fish species, including threatened and endangered species;

22 (2) the science supporting the State Water Board’s updated flow objectives in the Bay-Delta
23 Plan also supports not reducing existing (baseline) spring, winter, and fall flows as
24 proposed in the Preferred Alternative, but increasing them;

25 (3) the Preferred Alternative proposes changes to operations that would require changes to
26 Reclamation’s existing water right requirements or the implementation of those
27 requirements contained in State Water Board Decision 1641, Decision 1422, and Order 90-
28 5;

1 (4) the Preferred Alternative proposed Sacramento River operations, including Shasta Dam
2 operations affecting the Sacramento River, that appear to further degrade conditions for
3 threatened and endangered species; and

4 (5) operations under the Preferred Alternative would reduce Delta outflows, which are
5 important to all life cycles of Delta smelt, with the result that the Preferred Alternative
6 would adversely affect the Delta smelt population through increased predation and
7 entrainment, decreased food availability, and decreased size and location of low salinity
8 habitat.

9 82. Throughout 2019 (in April, July, and October specifically), Reclamation modified its
10 proposed Central Valley Project operations, submitting revised versions of its Biological
11 Assessment. Despite the scientific findings of USFWS and NMFS in their draft biological
12 opinions and the comments offered by California's expert agencies, Reclamation's modifications
13 did not adequately address the grave harms to listed species that will result from the proposed
14 operations. Instead, the final Biological Assessment that Reclamation submitted to USFWS and
15 NMFS in October 2019 still included proposed operations that will increase water deliveries at
16 the expense of listed species.

17 83. On October 21, 2019, USFWS issued the USFWS Biological Opinion at issue in this
18 litigation in response to Reclamation's August 2, 2016, request for reinitiation of consultation.
19 Contrary to the 2008 USFWS Biological Opinion, the new USFWS opinion now concludes that
20 the proposed operations of the Central Valley Project and the State Water Project are not likely to
21 jeopardize the continued existence of the Delta smelt and are not likely to destroy or adversely
22 modify the Delta smelt's critical habitat.

23 84. On October 21, 2019, NMFS issued the NMFS Biological Opinion at issue in this
24 litigation, also in response to Reclamation's request for reinitiation of consultation. Also contrary
25 to the 2009 NMFS Biological Opinion, the new NMFS Biological Opinion now concludes that
26 the proposed operations of the Central Valley Project and the State Water Project are not likely to
27 jeopardize the continued existence of the Sacramento River winter-run Chinook salmon, the
28 Central Valley spring-run Chinook salmon, the Central Valley steelhead, the North American

1 green sturgeon, and the Southern Resident killer whales, and is not likely to destroy or adversely
2 modify the critical habitat for the winter-run salmon, the spring-run salmon, and the steelhead.

3 85. On December 19, 2019, Reclamation issued its Final Environmental Impact
4 Statement (Final EIS) proposing to adopt the 2019 Biological Opinions and implement the
5 revisions it outlined in the October 2019 Biological Assessment.

6 86. On January 17, 2020, the Attorney General, the Resources Agency, and CalEPA
7 submitted a joint comment letter to Reclamation regarding the Final EIS. This comment letter
8 incorporated the comment letters previously submitted by CDFW and the State Water Board and
9 noted that the Final EIS did not adequately respond to the comments submitted on the Draft EIS.
10 The January 17, 2020, comment letter also noted a number of defects that appeared in the Final
11 EIS that the public was afforded no opportunity to comment on, including but not limited to that:

12 (1) Reclamation's Final EIS presents a revised Proposed Action and Preferred Alternative
13 that is not within the range of alternatives described in the Draft EIS. Critically, although
14 Alternative 1 is the Proposed Action described in the January 2019 Biological Assessment,
15 the Final EIS introduces a revised Alternative 1 that is based on a revised Proposed Action
16 presented in the final October 2019 Biological Assessment without including either a
17 comprehensive summary of the modifications to the Proposed Action and Alternative 1 or a
18 meaningful discussion of how these modifications affect the environmental analysis and
19 proposed mitigation;

20 (2) Appendix F1, which includes the revised Alternative 1 sensitivity analysis, contains
21 over 2,500 pages of information that was not available to the public commenting on the
22 Draft EIS; and

23 (3) the Final EIS includes climate change modeling upon which the public and other
24 agencies have also not had a chance to comment.

25 87. On or about February 19, 2020, Reclamation issued its final Record of Decision on
26 the Coordinated Long-Term Operation of the Central Valley Project and State Water Project
27 (Record of Decision), adopting the 2019 Biological Opinions.
28

DEFICIENCIES IN THE 2019 BIOLOGICAL OPINIONS

1
2 88. The 2016 request for reinitiation sought to update the operating criteria for the entire
3 Central Valley Project/State Water Project coordinated system to account for new information
4 regarding both impacts to the listed species and designated critical habitat and available measures
5 to avoid, minimize, and mitigate those impacts. Given those purposes, an updated biological
6 opinion might reasonably have included a prominent role for expert fish agencies in guiding
7 updated coordinated project operations, clear guardrails for those operations, and definite
8 measures to enhance species health. Instead, the 2019 Biological Opinions give the expert fish
9 agencies an inadequate role, are heavily caveated, and include many unbounded off-ramps,
10 making it impossible to know how, if at all, project operations will avoid further harm to the
11 species.

12 89. The 2019 Biological Opinions are also fatally defective in numerous other regards.
13 The following is a non-comprehensive list of those deficiencies.

14 90. First, the analysis of effects of the Proposed Action in the 2019 Biological Opinions
15 violates Section 7 of the ESA by failing to evaluate whether the Proposed Action will jeopardize
16 the continued existence of the species or adversely affect their critical habitat. The opinions
17 instead improperly compare the effects of the Proposed Action to the Current Operating Scenario
18 under the 2008 and 2009 biological opinions. This is not the proper standard. The law requires
19 the Services to evaluate whether the Proposed Action is likely to jeopardize the listed species'
20 survival and recovery or to destroy or adversely modify designated critical habitat, not to simply
21 compare the effects of the Proposed Action to the effects of the Current Operating Scenario. In
22 addition, this analysis fails to account for the existing baseline when evaluating the effects of the
23 Proposed Action, as expressed in the August 3, 2016, USFWS response to the request for
24 reinitiation of consultation (including that "new information is demonstrating the increasingly
25 imperiled state of the Delta Smelt and its designated critical habitat, and that emerging science
26 shows the importance of outflows to all life stages of Delta Smelt and to maintaining the primary
27 constituent elements of designated critical habitat") and the August 17, 2016, NMFS response to
28 the request for reinitiation of consultation (including "recent data demonstrating extremely low

1 abundance levels for endangered Sacramento River winter-run Chinook salmon and threatened
2 Central Valley spring-run Chinook salmon . . .”).

3 91. Second, the 2019 Biological Opinions fail to “articulate a satisfactory explanation” of
4 how the comparative modeling and other analyses in the Biological Opinions support the
5 opinions’ no-jeopardy conclusion as required by the APA. *See Greenpeace v. Nat’l Marine*
6 *Fisheries Serv.*, 80 F. Supp. 2d 1137, 1147 (W.D. Wash. 2000). “[E]ven where baseline
7 conditions already jeopardize a species, an agency may not take action that deepens the jeopardy
8 by causing additional harm.” *Nat’l Wildlife Fed’n v. Nat’l Marine Fisheries Serv.*, 524 F.3d 917,
9 930 (9th Cir. 2008). The opinions’ no-jeopardy conclusions are unlawful because they are not
10 based on an analysis of the Proposed Action in its “actual context” of a decade-long decline in the
11 listed species. *See id.*

12 92. Third, in numerous significant respects, the 2019 Biological Opinions do not consider
13 the relevant factors, and “entirely fail[] to consider ... important aspect[s] of the problem.” *Motor*
14 *Vehicle Mfrs. Ass’n of U.S., Inc.*, 463 U.S. at 43. For example, the NMFS Biological Opinion
15 acknowledges the high extinction risk for winter-run Chinook salmon. NMFS, however, then
16 permits changes in South Delta exports and Old and Middle River (OMR) flows that will
17 indisputably result in more entrainment and other harm to listed salmon. NMFS allows this
18 activity and result based solely on an unsupported finding that this increased pumping presents
19 risks comparable to the risks faced by the species under the 2009 NMFS Biological Opinion. Not
20 only is this an improper comparison, for the reasons described above, but the conclusions based
21 on that comparison are unsupported by scientific evidence and run counter to the scientific
22 evidence that was before the agencies. The USFWS Biological Opinion suffers from the same
23 deficiencies, concluding without basis that entrainment impacts on Delta smelt resulting from
24 increased reverse OMR flows are minimal because the risks are purportedly no greater than the
25 risks that would occur under the 2008 Biological Opinion. But even putting aside, once again, the
26 improper comparison with the Current Operating Scenario, this conclusion ignores the severe
27 decline in Delta smelt abundance that has occurred since 2008, which USFWS acknowledges is a
28 “relevant” factor in determining whether the Proposed Project will jeopardize the continued

1 existence of the Delta smelt, as required under Section 7 of the ESA. Failing to consider this
2 material decline in the development of measures in the 2019 Biological Opinion thus does not
3 consider “all relevant” factors.

4 93. Fourth, to avoid a jeopardy determination, the 2019 Biological Opinions rely on
5 operational criteria and conservation measures that are not reasonably certain to occur, or which
6 significantly post-date implementation of the Proposed Action. For example, the Proposed
7 Action does not offer any certainty on whether the Delta Cross Channel gates will be open or
8 closed in the event that fish are outmigrating but the interior Delta water quality is too low.
9 Instead, NMFS relies on the project operator’s “risk assessment” of certain measures with only a
10 minimal role for expert fish agencies in that assessment. Further, the approach to managing water
11 temperatures from Shasta Dam in the NMFS Biological Opinion eliminates previously required
12 measures designed to preserve cold water storage for downstream fish flows, substituting
13 measures that are uncertain while also eliminating carryover storage targets that would otherwise
14 assist in preserving cold water necessary for winter-run Chinook salmon reproduction in the
15 Sacramento River below Shasta Dam. The USFWS Biological Opinion is similarly defective,
16 allowing essentially unlimited pumping during undefined “storm-related events” and relying on
17 an untested, uncertain smelt supplementation program.

18 94. Sixth, the 2019 Biological Opinions fail to analyze important components of the
19 Proposed Action, specifically a proposal to raise the height of Shasta Dam, which violates the
20 Section 7 requirement that the scope of the proposed agency action to be analyzed in a biological
21 opinion must be broadly defined, and that a biological opinion must consider both the short-term
22 and long-term effects of a proposed action. *See Conner v. Burford*, 848 F.2d 1441, 1457 (9th Cir.
23 1988); *see also Wild Fish Conservancy v. Salazar*, 628 F.3d 513, 522–23, 525 (9th Cir. 2010).

24 95. Seventh, the 2019 Biological Opinions do not adequately consider the listed species’
25 recovery as well as survival prospects. 16 U.S.C. § 1536(a)(2); 50 C.F.R. § 402.02. For species
26 on the brink of extinction, as here, the agency must determine “when the tipping point precluding
27 recovery . . . is likely to be reached,” and then determine whether it will be reached “as a result”
28 of the proposed action. *Wild Fish Conservancy*, 628 F.3d at 527.

FIRST CLAIM FOR RELIEF

**Violation of the ESA, 16 U.S.C. § 1531 *et seq.*, and the APA, 5 U.S.C. § 706
(By all Plaintiffs Against Defendants Wilbur Ross, Chris Oliver, and
the National Marine Fisheries Service)**

96. California realleges, as if fully set forth here, each and every allegation contained in the preceding paragraphs.

97. The NMFS Biological Opinion is a final agency action that is subject to judicial review under section 704 of the APA.

98. Defendants Ross, Oliver, and NMFS are responsible for the issuance of the NMFS Biological Opinion as described in paragraphs 15–17 above.

99. Despite acknowledging that the populations of listed species are perilously close to extinction or extirpation, the NMFS Biological Opinion concludes that Reclamation’s Proposed Action will not jeopardize the continued existence of winter-run and spring-run Chinook salmon and Central Valley steelhead and will not result in the destruction or adverse modification of the species’ critical habitat. These conclusions, and NMFS’s decision to adopt the NMFS Biological Opinion, are “arbitrary, capricious, an abuse of discretion, or otherwise not in accordance with law.” 5 U.S.C. § 706(2)(A).

100. The NMFS Biological Opinion fails to analyze whether the effects of the Proposed Action as a whole, when added to baseline conditions, would or would not tip one or more of the listed species into extinction or further deepen the jeopardy to those species, contrary to Section 7(a)(2) of the ESA and the applicable implementing regulations and controlling case law. The Ninth Circuit has explained that “even where baseline conditions already jeopardize a species, an agency may not take action that deepens the jeopardy by causing additional harm.” *Nat’l Wildlife Fed’n*, 524 F.3d at 930.

101. The NMFS Biological Opinion fails to articulate the required “rational connection between the facts found and the choice made.” *Burlington Truck Lines, Inc. v. United States*, 371 U.S. 156, 168 (1962). Even assuming the proper effects analysis is a comparison with the Current Operating Scenario, modeling in the NMFS Biological Opinion indicates a higher risk of

1 extinction under the Proposed Action than under the Current Operating Scenario; in other words,
2 the NMFS Biological Opinion itself contains information indicating that Reclamation’s Proposed
3 Action will jeopardize the continued existence of the listed species and destroy or adversely
4 modify their critical habitat, and thus contradicts the “no jeopardy” and “no adverse
5 modification” conclusions in the opinion. In this and other ways, these conclusions are
6 contradicted by the evidence before NMFS, are not rationally connected to facts, and are not
7 supported by reasoned explanations.

8 102. The NMFS Biological Opinion also does not consider all relevant factors, and
9 “entirely failed to consider ... important aspect[s] of the problem.” *Motor Vehicle Mfrs. Ass’n of*
10 *U.S., Inc.*, 463 U.S. at 43. For example, the Proposed Action will result in OMR flows that are
11 significantly more negative than observed under the Current Operating Scenario, which poses a
12 significant risk to the survival and recovery of the listed species. The Biological Opinion does
13 not include measures, or otherwise provide evidence, to explain how allowing substantially more
14 negative flows would not lead to jeopardy.

15 103. The NMFS Biological Opinion further does not “use the best scientific and
16 commercial data available” as required by Section 7(a)(2) of the ESA. 16 U.S.C. § 1536(a)(2).
17 The opinion violates the statutory requirement to use such data in numerous ways, including but
18 not limited to, failing to take into account the decline in listed species’ abundance in the last ten to
19 twelve years.

20 104. The NMFS Biological Opinion also impermissibly relies on operational criteria and
21 other conservation measures that are not reasonably certain to occur, are of questionable
22 effectiveness, or significantly post-date implementation of the Proposed Action, contrary to the
23 requirements of Section 7(a)(2) and controlling case law. *See, e.g., Nat’l Wildlife Fed’n*, 524
24 F.3d at 935–36 n.17. Operations related to the Shasta Cold Water Pool, including the elimination
25 of carryover storage targets, and the Delta Cross Channel Gates are not reasonably certain to
26 occur and are not coupled with any other measures that are certain to occur and would protect the
27 species. Therefore, these actions cannot be relied on by NMFS as enforceable measures that will
28 reduce the adverse effects of the Proposed Action on listed species and designated critical habitat.

1 105. The NMFS Biological Opinion fails to analyze key components of the Proposed
2 Action, including its short-term and long-term and site-specific and watershed-level
3 consequences, such as its proposal to raise the Shasta Dam, in contravention of the requirement
4 that a biological opinion assess all aspects of a project. *See, e.g., Conner v. Burford*, 848 F.2d at
5 1457; *Wild Fish Conservancy*, 628 F.3d at 521–22, 525; *Pac. Coast Fed’n of Fishermen’s Ass’n*
6 *v. Nat’l Marine Fisheries Serv.*, 265 F.3d 1028, 1036–37 (9th Cir. 2001).

7 106. The NMFS Biological Opinion ignores the requirement that a biological opinion must
8 consider not just impacts to the continued survival of listed species, but also the potential to
9 reduce appreciably the likelihood of their recovery. *Nat’l Wildlife Fed’n*, 524 F.3d at 917.

10 107. The NMFS Biological Opinion’s incidental take statement also violates the
11 requirements of Section 7(b)(4) of the ESA and is arbitrary and capricious under the APA
12 because the statement allows take at levels that would jeopardize listed species. As a result, the
13 take statement cannot provide a reasoned explanation why those levels would not jeopardize
14 listed species, and the statement does not require reinitiation of consultation until the listed
15 species would be nearly—if not totally—extinct.

16 108. In these and other ways, the analysis, reasoning, and conclusion of the NMFS
17 Biological Opinion, and the actions of Defendants Ross, Oliver, and NMFS described here, are
18 arbitrary, capricious, an abuse of discretion, not in accordance with law, in excess of statutory
19 authority, and without observance of procedure required by law, in violation of the ESA and its
20 implementing regulations and the APA. 5 U.S.C. § 706.

21 109. The Court has the authority to issue the requested declaratory and injunctive relief.
22 28 U.S.C. §§ 2201–2202; 5 U.S.C. §§ 705–706; Fed. R. Civ. P. 65.

23 **SECOND CLAIM FOR RELIEF**

24 **Violation of the ESA, 16 U.S.C. § 1531 et seq., and the APA, 5 U.S.C. § 706**
25 **(By all Plaintiffs Against Defendants David Bernhardt, Aurelia Skipwith, and**
 the U.S. Fish and Wildlife Service)

26 110. California realleges, as if fully set forth herein, each and every allegation contained in
27 the preceding paragraphs.
28

1 111. The USFWS Biological Opinion is a final agency action subject to judicial review
2 under section 704 of the APA.

3 112. Defendants Bernhardt, Skipwith, and USFWS are responsible for the issuance of the
4 USFWS Biological Opinion, as described in paragraphs 18–20 above.

5 113. Despite acknowledging that the populations of listed species are perilously close to
6 extinction or extirpation, Defendants Bernhardt, Skipwith, and USFWS conclude in the USFWS
7 Biological Opinion that Reclamation’s Proposed Action will not jeopardize the continued
8 existence of Delta smelt, and will not result in the destruction or adverse modification of the
9 species’ critical habitat. These conclusions, and Defendants Bernhardt, Skipwith, and USFWS’s
10 decision to adopt the USFWS Biological Opinion, are “arbitrary, capricious, an abuse of
11 discretion, or otherwise not in accordance with law.” 5 U.S.C. § 706(2)(A).

12 114. The USFWS Biological Opinion fails to provide actual analysis of whether the effects
13 of the Proposed Action added to baseline conditions would or would not tip a species into
14 extinction. The Ninth Circuit has explained that “even where baseline conditions already
15 jeopardize a species, an agency may not take action that deepens the jeopardy by causing
16 additional harm.” *Nat’l Wildlife Fed’n*, 524 F.3d at 930.

17 115. The USFWS Biological Opinion fails to articulate the required “rational connection
18 between the facts found and the choice made.” *See Burlington Truck Lines, Inc.*, 371 U.S. at 168.
19 The “no jeopardy” conclusion is contradicted by the evidence before the agencies, is not
20 rationally connected to facts, and is not support by reasoned explanations. For instance, the
21 capability of the proposed Delta Fish hatchery to supplement wild fish populations in a timely
22 manner is uncertain. The USFWS Biological Opinion also fails to consider the likely increase in
23 entrainment of Delta smelt resulting from the increase in water exports planned in the Proposed
24 Action, and fails to articulate why it made a “no jeopardy” conclusion despite acknowledged
25 reduction of the Delta smelt’s critical habitat.

26 116. The USFWS Biological Opinion does not consider the relevant factors, and “entirely
27 failed to consider ... important aspect[s] of the problem.” *Motor Vehicle Mfrs. Ass’n of U.S., Inc.*
28

1 *v. State Farm Mut. Auto. Ins. Co.*, 463 U.S. 29, 43 (1983). The USFWS Biological Opinion
2 essentially fails to consider the material decline of the Delta smelt.

3 117. The USFWS Biological Opinion impermissibly relies solely on operational criteria
4 and other conservation measures that are not reasonably certain to occur, are of questionable
5 effectiveness, or significantly post-date implementation of the Proposed Action. *See, e.g., Nat'l*
6 *Wildlife Fed'n*, 524 F.3d at 936 n.17. For example, the limitations on storm-related flexibility
7 and smelt population supplementation plan are not reasonably certain to occur nor are they
8 coupled with any other measures that are certain to occur and would protect the species.

9 118. The USFWS Biological Opinion fails to analyze key components of the proposed
10 action, including but not limited to a proposal to raise the height of Shasta Dam, in contravention
11 of the requirement that a biological opinion assess all aspects of a project. *See Conner v. Burford*,
12 848 F.2d at 1457.

13 119. The USFWS Biological Opinion improperly ignores the requirement that a biological
14 opinion consider not just impacts to the continued survival of listed species, but also the potential
15 to reduce appreciably the likelihood of species recovery. *Nat'l Wildlife Fed'n*, 524 F.3d at 931–
16 32.

17 120. The USFWS Biological Opinion's incidental take statement also violates the
18 requirements of the Endangered Species Act and is arbitrary and capricious under the APA
19 because the statement self-evidently allows take at levels that would jeopardize listed species. As
20 a result, the take statement cannot provide a reasoned explanation why those levels would not
21 jeopardize listed species.

22 121. In these and other ways, the analysis, reasoning, and conclusion of the USFWS
23 Biological Opinion, and the actions of Defendants Bernhardt, Skipwith, and USFWS described
24 here, are arbitrary, capricious, an abuse of discretion, not in accordance with law, in excess of
25 statutory authority, and without observance of procedure required by law, in violation of
26 Endangered Species Act Section 7, its implementing regulations, and the standards of the
27 Administrative Procedure Act, 5 U.S.C. § 706.

28

THIRD CLAIM FOR RELIEF

**Violation of the ESA, § 1531 et seq., and the APA, 5 U.S.C. § 706
(By all Plaintiffs Against Defendants David Bernhardt, Brenda Burman, and the Bureau of Reclamation)**

122. California realleges, as if fully set forth here, each and every allegation contained in the preceding paragraphs.

123. Defendants Bernhardt, Burman, and the Bureau of Reclamation (collectively, Reclamation) are responsible for the arbitrary and capricious issuance of the Record of Decision adopting the 2019 Biological Opinions, which is a final agency action. As alleged above, the 2019 Biological Opinions are arbitrary and capricious, and their issuance was an abuse of discretion, not in accordance with law, in excess of statutory authority, and failed to observe procedures required by law, in violation of Endangered Species Act Section 7, its implementing regulations, and the standards of the Administrative Procedure Act, 5 U.S.C. § 706.

124. Reclamation's reliance on flawed biological opinions in issuing the Record of Decision violates Reclamation's independent duty to avoid "jeopardiz[ing] the continued existence of any endangered species or threatened species" or taking an action that would "result in the destruction or adverse modification of habitat," and to "use the best scientific and commercial data available" in its efforts. *See* 16 U.S.C. § 1536(a)(2); *see also Ctr. for Biological Diversity v. U.S. Bureau of Land Mgmt.*, 698 F.3d 1101, 1128 (9th Cir. 2012). Reclamation's actions will jeopardize, and have jeopardized, endangered and threatened species, and will destroy or adversely modify the designated habitat of these species.

125. Reclamation's issuance of the Record of Decision adopting the 2019 Biological Opinions and implementing the revisions to the operations of the Central Valley Project described above has resulted, and will result, in the take of endangered and threatened species in violation of Section 9 of the Endangered Species Act, because the incidental take statements provided by the biological opinions fail to articulate lawful, specific standards for Reclamation to meet. *See* 16 U.S.C. §§ 1536(b)(4), 1538(a)(1)(B), 1538(a)(1)(G); *see also Ariz. Cattle Growers' Ass'n v. U.S. Fish & Wildlife*, 273 F.3d 1229, 1239 (9th Cir. 2001).

1 126. Finally, in proposing a project that does not analyze impacts to listed species from
2 raising Shasta Dam, Reclamation arbitrarily and capriciously divided its Proposed Action into
3 “incremental steps” for purposes of the ESA analysis, instead of considering the whole project.
4 *Conner v. Burford*, 848 F.2d at 1455.

5 127. For these and other reasons, Reclamation’s issuance of the Record of Decision, and
6 its operation of the Central Valley Project in reliance on the 2019 Biological Opinions, violate the
7 Endangered Species Act. 16 U.S.C. § 1540(g)(1)-(2)(A).

8 **FOURTH CLAIM FOR RELIEF**

9 **Violation of NEPA, 42 U.S.C. § 4321 et seq., and the APA, 5 U.S.C. § 706** 10 **(By all Plaintiffs Against Defendants David Bernhardt, Brenda Burman,** 11 **and the Bureau of Reclamation)**

12 128. California realleges, as if fully set forth herein, each and every allegation contained in
13 the preceding paragraphs.

14 129. Plaintiffs Resources Agency, CalEPA, and the Attorney General jointly commented
15 on Reclamation’s Final Environmental Impact Statement; CDFW, a department within the
16 Resources Agency, and the State Water Board, a board within CalEPA, also commented on
17 Reclamation’s Draft Environmental Impact Statement, raising the issues addressed below.
18 Plaintiffs Resources Agency, CalEPA, and the Attorney General incorporated by reference those
19 comments by CDFW and the State Water Board. California has thus exhausted all available
20 administrative remedies.

21 130. Defendants Bernhardt, Burman, and the Bureau of Reclamation (collectively,
22 Reclamation) are responsible for complying with NEPA, and they have breached that duty.
23 Reclamation’s Draft EIS and Final EIS violate NEPA, and Reclamation also failed to comply
24 with NEPA before adopting its Record of Decision, in at least the following ways.

25 131. Reclamation violated NEPA by failing to prepare and circulate a supplement to the
26 EIS after making substantial changes to its proposed action and including significant new
27 information in the Final EIS. *See* 42 U.S.C. § 4332(2)(C); *Robertson*, 490 U.S. at 349; *California*
28 *v. Block*, 690 F.2d 753, 770 (9th Cir. 1982). NEPA required Reclamation to circulate for public

1 comment a supplement to the EIS that adequately informs decisionmakers and the public of how
2 changes to the Proposed Action and new modeling information included for the first time in the
3 Final EIS affect the analysis of project impacts. 40 C.F.R. § 1502.9(c); *see League of Wilderness*
4 *Defns./Blue Mountains Biodiversity Project v. Connaughton*, 752 F.3d 755, 760–61 (9th Cir.
5 2014).

6 132. Reclamation’s Final EIS presents a revised Proposed Action (Alternative 1) that
7 includes “substantial changes . . . relevant to environmental concerns.” 40 C.F.R.
8 § 1502.9(c)(1)(i). The Draft EIS analyzes as Alternative 1 a Proposed Action described in the
9 January 2019 Biological Assessment. But the Final EIS introduces a substantially revised
10 Alternative 1 based on the revised Proposed Action, which was set forth in the October 2019
11 Biological Assessment and was analyzed in the 2019 Biological Opinions. The changes to the
12 Proposed Action from the Draft to the Final EIS are not minor and are not explained clearly to the
13 public in the Final EIS.

14 133. The Final EIS also includes thousands of pages of additional modeling that amounts
15 to “significant new . . . information relevant to environmental concerns,” triggering NEPA’s
16 requirement to circulate a supplement to the EIS. 40 C.F.R. § 1502.9(c)(1)(ii). Because this new
17 modeling of climate change scenarios and of the Fall X2 action for Delta smelt “raises substantial
18 questions” regarding the project’s impacts, further analysis is required “before allowing the
19 project to proceed.” *League of Wilderness Defs.*, 752 F.3d at 760; *Klamath Siskiyou Wildlands*
20 *Ctr. v. Boody*, 468 F.3d 549, 562 (9th Cir. 2006).

21 134. Reclamation failed to provide the public with a meaningful opportunity to comment
22 on relevant information about the Proposed Action and potential impacts in direct disregard of
23 NEPA’s informational goal. *See* 42 U.S.C. § 4332(2)(C); *Robertson*, 490 U.S. at 349; *Block*, 690
24 F.2d at 770. Reclamation’s failure to disclose the details of the Proposed Action before issuance
25 of the Final EIS “defeats NEPA’s goal of encouraging public participation in the development of
26 information during the decision making process.” *Half Moon Bay Fishermans’ Mktg. Ass’n v.*
27 *Carlucci*, 857 F.2d 505, 508 (9th Cir. 1988). The public and other agencies have also not had a
28 chance to comment on the updated modeling included in the Final EIS.

1 135. The analysis of environmental impacts in Reclamation’s Final EIS—including, but
2 not limited to, its analysis of impacts to endangered fish and aquatic resources—is inadequate and
3 unlawful. *See, e.g., City of Carmel-By-The-Sea*, 123 F.3d at 1160. Reclamation’s Final EIS (1)
4 minimizes the findings of expert scientific wildlife agencies, (2) arbitrarily adds limitations to its
5 modeling assumptions that are not contained in the project description and which directly affect
6 the scope and extent of the impact analysis on listed fish species and designated critical habitat;
7 and (3) considers protective measures that are infeasible, while refusing to analyze the impacts of
8 harmful measures that Reclamation itself identified as likely to occur.

9 136. First, the EIS’s analysis of fish impacts minimizes recent findings by the Services
10 supporting the conclusion that the impacts of the Proposed Action on listed fish species and their
11 critical habitat will be more severe than indicated in the Final EIS. Reclamation instead focuses
12 on the “uncertainty” of the possible effects of the Proposed Action and discounts the potential
13 impacts associated with the Proposed Action, such as the impact that reduced Delta outflow, will
14 have on the listed fish species and their critical habitats. By failing to provide a rational
15 justification for its failure to address these findings, Reclamation’s Final EIS violates NEPA.

16 137. Second, Reclamation’s modeling relies on assumptions that do not match the project
17 description. For example, while the description of Alternative 1 allows for a combined export
18 rate of 14,900 cubic feet per second, without a time limit, during a storm-related flexibility event,
19 Reclamation’s modeling assumes an OMR index of negative 6,000 cubic feet per second for 7
20 days in each of January and February during wet, above normal and below normal water
21 years. This unreasonable assumption results in modeling results that do not reflect the permitted
22 operations of the projects and unlawfully minimizes the impacts to aquatic resources that will
23 result from Reclamation’s proposed action.

24 138. Third, Reclamation’s Final EIS improperly credits reductions in the Proposed
25 Action’s impacts to infeasible conservation measures while failing to account for the reasonably
26 foreseeable negative impacts that will result from waivers of conservation measures. For
27 example, the Final EIS’s assessment of Alternative 1’s impacts on Delta smelt includes the
28 potential benefit from the Fish Conservation and Culture Laboratory’s reintroduction of hatchery-

1 grown smelt that is part of the Proposed Action. As noted by commenters including CDFW,
2 however, the Fish Conservation and Culture Laboratory’s reintroduction program is unlikely to be
3 able to capture sufficient numbers of wild Delta smelt to support the genetic diversity needed for
4 a supplementation program, and may not be able to produce smelt in sufficient numbers soon
5 enough to serve the mitigation effect attributed to it by Reclamation. The Final EIS’s
6 characterization of the reintroduction efforts for Delta smelt as a beneficial measure with
7 appreciable positive effects without acknowledging the uncertain efficacy of the measure is
8 arbitrary and capricious.

9 139. Reclamation’s Final EIS fails to evaluate all reasonable alternatives to the Proposed
10 Action. *See League of Wilderness Defs./Blue Mountains Biodiversity Project v. U.S. Forest*
11 *Serv.*, 689 F.3d 1060, 1071 (9th Cir. 2012) (“The existence of a viable but unexamined alternative
12 renders an environmental impact statement inadequate.”). Reclamation’s scoping exercise
13 unreasonably excluded components that would have provided for a reduction in the
14 environmental impacts of the coordinated operations of the Central Valley Project and State
15 Water Project. Of the alternatives that Reclamation did include, the Final EIS fails to objectively
16 evaluate these alternatives as demonstrated by the inadequacies in the analysis identified in
17 comments on the Draft EIS filed by CDFW and the State Water Board. *See id.* (“NEPA
18 regulations require that an EIS rigorously explore and objectively evaluate all reasonable
19 alternatives.”); *see also* 40 C.F.R. § 1502.14.

20 140. Reclamation’s Final EIS further fails to meaningfully evaluate the cumulative impacts
21 of Reclamation’s new management direction for the Central Valley Project (the Proposed Action)
22 with the impacts of other projects in the region. Rather than evaluate and disclose such
23 cumulative impacts, Reclamation’s Final EIS merely provides a list of past, present, and
24 reasonably foreseeable projects in the Central Valley and Bay-Delta and frequently states that the
25 combined impacts of these projects are unknown. *See* Final EIS, Appendix Y. This analysis does
26 not comply with NEPA. *See City of Carmel-By-The-Sea*, 123 F.3d at 1160 (holding cumulative
27 impacts analysis unlawful where EIS failed “to provide any useful analysis” of such impacts).

28

1 141. Reclamation’s Final EIS also fails to discuss in meaningful detail mitigation measures
2 that might avoid, minimize, or mitigate the significant environmental effects of the Proposed
3 Action, or adequately assess whether the proposed mitigation measures will or are likely to be
4 effective. *See Robertson*, 490 U.S. at 351; *S. Fork Band Council*, 588 F.3d at 727. For example,
5 as CDFW pointed out in its comments on the Draft EIS, the Final EIS does not propose
6 mitigation measures to avoid or minimize potential adverse impacts to longfin smelt due to
7 reduced Delta outflow and increased entrainment risk. Reclamation’s Final EIS acknowledges
8 that “[r]eductions in winter/spring Delta outflow under Alternatives 1 through 3 have the potential
9 to negatively affect the population abundance of Longfin Smelt.” Final EIS at 5-72. But the
10 Final EIS only proposes to *monitor the presence of* longfin smelt in mitigation measure (MM)
11 AQUA-16, which will do nothing to avoid or minimize the harm to the species from reduced
12 outflows and entrainment caused by the Proposed Action. And Reclamation’s response to
13 CDFW’s suggestion of a more substantive mitigation measure is inadequate because it merely
14 points to MM AQUA-16. NEPA requires Reclamation to consider and evaluate the effectiveness
15 of such mitigation measures. *See S. Fork Band Council*, 588 F.3d at 727 (holding EIS was
16 unlawful where agency failed to “assess the effectiveness of mitigation measures relating to
17 groundwater”). Further, in its impact analysis, the Final EIS makes no good faith effort to
18 quantify or otherwise reasonably evaluate the degree of significance of these adverse effects.

19 142. Reclamation’s action would kill, and thus “take,” species that are listed as threatened
20 or endangered under CESA. Reclamation’s Final EIS does not comply with the requirement of
21 40 C.F.R. § 1502.16(c) that Reclamation address the inconsistency between, on the one hand, its
22 take of endangered or threatened species, and, on the other hand, California’s statutory
23 protections for endangered species and California’s policy of conserving, protecting, restoring,
24 and enhancing endangered or threatened species and their habitats. Cal. Fish & Game Code
25 § 2052. This failure is contrary to the requirements of NEPA and is therefore arbitrary and
26 capricious under the APA.

27 143. The Final EIS also does not adequately respond to the comments submitted on the
28 Draft EIS. The purpose of public issuance of an environmental impact statement is to “provid[e]

1 a springboard for public comment,” *Dept. of Transp. v. Public Citizen*, 541 U.S. 752, 768 (2004)
2 (alteration in original), which the agency must respond to in accordance with 40 C.F.R.
3 § 1503.4(a). Here, Reclamation undermined that purpose by arbitrarily limiting its analysis so as
4 to avoid serious consideration of comments that raised significant scientific uncertainties and
5 offered reasonable support for the existence of those uncertainties. In doing so, Reclamation has
6 failed to provide the full and fair discussion of environmental impacts that NEPA requires. *Lands*
7 *Council v. McNair*, 537 F.3d 981, 993 (9th Cir. 2008), *overruled on other grounds by Winter v.*
8 *Nat. Res. Def. Council, Inc.*, 555 U.S. 7 (2008).

9 144. In these and other ways, the analysis, reasoning, and conclusion of Reclamation’s EIS
10 are arbitrary, capricious, an abuse of discretion, not in accordance with law, in excess of statutory
11 authority, and without observance of procedure required by law, in violation of NEPA.

12 **FIFTH CLAIM FOR RELIEF**

13 **Violation of the Administrative Procedure Act Through Violation of CESA** 14 **(By all Plaintiffs Against Defendants David Bernhardt, Brenda Burman, and the Bureau of** 15 **Reclamation)**

16 145. California realleges, as if fully set forth here, each and every allegation contained in
17 the preceding paragraphs above.

18 146. The Administrative Procedure Act waives sovereign immunity and creates a private
19 right of action for injunctive relief against federal agencies and their officers, to be brought by
20 “[a] person suffering legal wrong because of agency action, or adversely affected or aggrieved by
21 agency action within the meaning of a relevant statute.” 5 U.S.C. § 702.

22 147. In issuing the Record of Decision and conducting its Central Valley Project
23 operations, Defendants Bernhardt, Burman, and the Bureau of Reclamation (collectively,
24 Reclamation) have acted or failed to act in an official capacity within the meaning of 5 U.S.C. §
25 702 by failing to comply with CESA.

26 148. Section 3406(b) of the CVPIA requires Reclamation to comply with applicable
27 California law. It states that Reclamation “shall operate the Central Valley Project to meet all
28 obligations under State and Federal law.” And Section 3406(b)(1)(C) of the CVPIA requires

1 Reclamation to “cooperate with the State of California” and refers to “additional obligations of
2 the Central Valley Project which may be imposed by the State of California.”

3 149. Section 4002(a) of the WIIN Act also prohibits increased pumping that “would be
4 inconsistent with applicable State law requirements,” and section 4005(b)(4) of the WIIN Act
5 states, “Nothing in the applicable provisions of this subtitle shall have any effect on the
6 application of the California Endangered Species Act”

7 150. Section 8 of the Reclamation Act of 1902, which provides the statutory authority for
8 Reclamation to operate the Central Valley Project, preserves the applicability of state laws
9 “relating to the control, appropriation, use, or distribution of water used in irrigation” to Central
10 Valley Project operations. 43 U.S.C. § 383. The Act expressly requires that “the Secretary of the
11 Interior, in carrying out the provisions of [the] Act, shall proceed in conformance with such
12 [state] laws” *Id.* “The goal of section 8 is to ensure that all water rights within a state,
13 including those associated with federal reclamation projects, are subject to a uniform set of state
14 laws.” *Wild Fish Conservancy v. Jewell*, 730 F.3d 791, 800 (9th Cir. 2013) (citing *California v.*
15 *United States*, 438 U.S. 645, 668–69 (1978)).

16 151. CESA is a state law “relating to the control, appropriation, use, or distribution of
17 water used in irrigation” within the meaning of the Act because it regulates the control, use and
18 distribution of water that kills, and thus takes, fish protected by the statute. The presence of
19 CESA-listed aquatic species in the various waterways and facilities that make up the Central
20 Valley Project requires the imposition of restrictions on pumping and other operations because
21 the Central Valley Project pumping and other operations result in take of those species. These
22 fish are especially sensitive to the quality and quantity of water available, and vulnerable to
23 entrainment at the Central Valley Project’s powerful pumps, so maintenance of the flows required
24 for their survival directly connects CESA to the control, use and distribution of water used in
25 irrigation.

26 152. CESA provides a number of mechanisms for authorizing the incidental take of
27 CESA-listed species, including the following two relevant here. First, CDFW may directly
28 authorize take of CESA-listed species by issuing an incidental take permit. Cal. Fish & Game

1 Code § 2081(b). Alternatively, CDFW may authorize take of CESA-listed species that are co-
2 listed under the ESA when that take has been authorized through an ESA incidental take
3 statement under Section 7 of the ESA or an incidental take permit under Section 10 of the ESA, if
4 CDFW determines that the ESA take statement or permit is “consistent” with CESA. Cal. Fish &
5 Game Code § 2080.1. In either case, an application to CDFW is required, and such permit must
6 be issued before any take of CESA-listed species is authorized and lawful. The lists of CESA-
7 and ESA-listed species are not identical. For example, the longfin smelt is a CESA-listed species,
8 but not an ESA-listed species.

9 153. Reclamation’s use of water under its Proposed Action—evaluated in and approved by
10 the 2019 Biological Opinions—will result in the take of listed populations of winter-run Chinook
11 salmon, spring-run Chinook salmon, and Delta smelt (all of which are listed under both the
12 federal and California ESAs), as well as longfin smelt (which is listed only under CESA).
13 Reclamation has neither sought nor obtained any authorization for the take of CESA-listed
14 species. To the contrary, Reclamation stated in its Final EIS that “Reclamation does not have
15 CESA compliance obligations” Final EIS at Appendix AA, p. 3-2.

16 154. By failing to submit an application for an incidental take permit or a consistency
17 determination before taking listed species, Reclamation’s continued operation of the Central
18 Valley Project violates CESA. Because Reclamation’s actions will be taking CESA-listed
19 species, driving the listed species toward extinction, Reclamation must be enjoined from
20 operating in a manner that takes CESA-listed species without the authorization required under
21 California law.

22 **PRAYER FOR RELIEF**

23 WHEREFORE, Plaintiffs California Natural Resources Agency, California Environmental
24 Protection Agency, and the People of the State of California respectfully request that this Court
25 enter a judgment:

26 1. Declaring that the Biological Opinions are arbitrary and capricious, an abuse of
27 discretion, and not in accordance with law under the Administrative Procedure Act, 5 U.S.C.
28 § 706(2);

1 2. Holding unlawful and setting aside the Biological Opinions, including their Incidental
2 Take Statements so that the prior regulatory regime is immediately reinstated and the 2008
3 USFWS Biological Opinion and 2009 NMFS Biological Opinion are the legally controlling ESA
4 authorizations;

5 3. Ordering the Defendants to comply with the law by reinitiating consultation with
6 respect to Reclamation's operation of the Central Valley Project;

7 4. Declaring that Reclamation's Final EIS and Record of Decision violate the National
8 Environmental Policy Act, and are arbitrary and capricious, an abuse of discretion, and not in
9 accordance with law under the Administrative Procedure Act;

10 5. Holding unlawful and setting aside Reclamation's Final EIS and Record of Decision
11 and reinstating the 2008 USFWS Biological Opinion and 2009 NMFS Biological Opinion as the
12 legally controlling ESA authorizations;

13 6. Granting a preliminary and permanent injunction prohibiting the Bureau of
14 Reclamation, its agents, and any other federal officers from taking any other actions in reliance on
15 Reclamation's Final EIS and Record of Decision until the Bureau of Reclamation has complied
16 with the National Environmental Policy Act as ordered by this Court;

17 7. Granting a preliminary and permanent injunction prohibiting the Defendants, their
18 agents, and any other federal officers, from taking any other actions in reliance on the USFWS
19 and NMFS Biological Opinions until the Defendants have complied with the Endangered Species
20 Act;

21 8. Granting a preliminary and permanent injunction prohibiting the Bureau of
22 Reclamation, its agents, and any other federal officers from taking any other actions in reliance on
23 Reclamation's Final EIS and Record of Decision, or on the USFWS and NMFS Biological
24 Opinions until Reclamation has obtained take authorization under the California Endangered
25 Species Act.

26 9. Retaining jurisdiction over this matter until such time as all Defendants and their
27 agents have fully complied with the Court's order;

28 10. Awarding Plaintiffs costs, expenses, and reasonable attorneys' fees; and

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28

11. Awarding Plaintiffs such other relief as the Court deems just and proper.

Dated: April 21, 2020

Respectfully submitted,

XAVIER BECERRA
Attorney General of California
TRACY L. WINSOR
Supervising Deputy Attorney General

/s/ Daniel M. Fuchs
DANIEL M. FUCHS
Deputy Attorney General
Attorneys for Plaintiffs California Natural Resources Agency, California Environmental Protection Agency, and People of the State of California by and through Attorney General Xavier Becerra

SA2019300725
34009486.docx34009486.docx

EXHIBIT A



XAVIER BECERRA
Attorney General

State of California
DEPARTMENT OF JUSTICE

1300 I STREET, SUITE 125
P.O. BOX 944255
SACRAMENTO, CA 94244-2550

Telephone: (916) 210-7827
Facsimile: (916) 322-5609
E-Mail: Daniel.Fuchs@doj.ca.gov

February 20, 2020

Via Certified Mail (Priority), Return Receipt Requested

David Bernhardt
Secretary of the Interior
Department of the Interior
1849 C St., NW
Washington, D.C. 20240

Wilbur Ross
Secretary of Commerce
Department of Commerce
1401 Constitution Ave., NW
Washington, D.C. 20230

Brenda Burman
Commissioner
Bureau of Reclamation
1849 C St., NW
Washington, D.C. 20240

RE: Potential Reclamation Action Following Final Environmental Impact Statement
Regarding Reinitiation of Consultation on the Coordinated Long-Term Operation of the
Central Valley Project and State Water Project

Dear Secretary Bernhardt, Secretary Ross, and Commissioner Burman:

This letter provides written notice that the California Natural Resources Agency, the California Environmental Protection Agency, and the California Attorney General intend to initiate litigation against the Bureau of Reclamation (Reclamation) for violating the Endangered Species Act in its proposed operation of the Central Valley Project. *See* 16 U.S.C. § 1540(g)(1)(A), (2)(A). This decision is not made lightly. We appreciate the fruitful discussions concerning our many shared interests in the Bay-Delta in which we have been engaged and which we continue to hope will yield a final agreement concerning this complex matter. Rest assured, the State of California remains committed to this productive process. Nevertheless, on February 19, 2020, Reclamation issued a Record of Decision adopting the fatally flawed biological opinions issued by the U.S. Fish and Wildlife Service (USFWS) and the National

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 2

Marine Fisheries Service (NMFS) on October 21, 2019.¹ With the impending implementation of these deficient biological opinions, we send this letter to preserve the State's rights.

In evaluating the final product of Reclamation's consultation with the federal fisheries agencies, it is critical to recall the purpose of that consultation. The 2016 request for reinitiation sought to update system-wide operating criteria to account for new information regarding both impacts to the species and available measures to lessen those impacts. Rather than ensuring a prominent role for expert fish agencies in guiding updated operations, defining clear guardrails for those operations, and describing definite measures to enhance species' health, the 2019 Biological Opinions are heavily caveated and include many unbounded off-ramps, making it impossible to know how, if at all, project operations will avoid further harm to the species.

Because of these and other deficiencies, the biological opinions are arbitrary and capricious under the Administrative Procedure Act. *See* 5 U.S.C. § 706; 16 U.S.C. § 1536. Likewise, Reclamation's issuance of the Record of Decision adopting the biological opinions is arbitrary and capricious, violating Reclamation's independent duty to avoid "jeopardiz[ing] the continued existence of any endangered species or threatened species" or taking an action that would "result in the destruction or adverse modification of habitat," and to "use the best scientific and commercial data available" in its efforts. *See* 16 U.S.C. § 1536(a)(2); *see also* *Ctr. for Biological Diversity v. U.S. Bureau of Land Mgmt.*, 698 F.3d 1101, 1128 (9th Cir. 2012). Moreover, the incidental take statements provided by the biological opinions fail to articulate lawful, specific standards for Reclamation to meet. *See* 16 U.S.C. § 1536(b)(4); *see also* *Arizona Cattle Growers' Ass'n v. U.S. Fish & Wildlife*, 273 F.3d 1229, 1239 (9th Cir. 2001). Therefore, Reclamation's operations will result in the take of endangered and threatened species in violation of Section 9 of the Endangered Species Act. *See* 16 U.S.C. § 1538(a)(1)(B), (G).

The California Natural Resources Agency, the California Environmental Protection Agency, and the California Attorney General respectfully request that Reclamation reconsider its decision to adopt the defective 2019 Biological Opinions.

FACTUAL BACKGROUND

I. COORDINATED LONG-TERM OPERATIONS OF THE CENTRAL VALLEY PROJECT AND STATE WATER PROJECT

The Central Valley Project and the State Water Project are the two largest water projects in California. The Central Valley Project began in 1933, when the California Legislature

¹ NMFS, Biological Opinion on Long-term Operation of the Central Valley Project and the State Water Project (NMFS BiOp); USFWS, Biological Opinion for the Reinitiation of Consultation on the Coordinated Operations of the Central Valley Project and the State Water Project (USFWS BiOp); together "the 2019 Biological Opinions."

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 3

approved a plan to divert Sacramento River water for use by the drier San Joaquin Valley. *United States v. State Water Res. Control Bd.*, 182 Cal. App. 3d 82, 98-99 (1986). Due to the Great Depression, the federal government assumed control of the efforts and completed the project in 1945. It has been operated by the federal government ever since. *Id.* After World War II, the state broke ground on the State Water Project, which was intended to deliver water throughout California as part of a “comprehensive statewide water plan.” *Id.* at 99.

In 1960, the federal and state governments entered into an initial agreement to coordinate project operations. In 1986, the two formalized an agreement entitled, “Agreement Between the United States of America and the State of California for Coordinated Operations of the Central Valley Project and the State Water Project” (COA). Congress authorized the COA in Pub. L. 99-546, 100 Stat. 3050 (1986). Since then, existing “virtually side-by-side,” the projects convey water to their users at a level that “is constantly changing” with the demands of hydrology, chronology, and biology. *Friant Water Auth. v. Jewell*, 23 F. Supp. 3d 1130, 1151 (E.D. Cal. 2014).

The Central Valley Project now consists of 20 dams and reservoirs, the Jones Pumping Plant, and the Delta Mendota Canal, which deliver water to 29 of California’s 58 counties for agricultural, municipal, and industrial uses, primarily in the Central Valley and the San Francisco Bay Area. On average, the project delivers 5.6 million acre-feet of water a year to 270 water supply contractors.

The State Water Project spans over 700 miles and is operated by the California Department of Water Resources (DWR). The project’s main facilities are the Oroville Dam, the Harvey O. Banks Pumping Plant, and the San Luis Reservoir. DWR operates these facilities, along with connecting canals and aqueducts, to deliver water to the Feather River Area, North Bay Area, South Bay Area, San Joaquin Valley, Central Coast, and Southern California for agricultural, municipal, and industrial uses. The State Water Project delivers 2.6 million acre-feet of water a year on average to 29 public water agencies.

The Central Valley Project and the State Water Project share responsibility for meeting “Sacramento Valley in-basin uses;” meaning providing water for environmental regulations and local users of water. The projects jointly operate the San Luis Reservoir and share export capacity, with the Central Valley Project often directing its water through State Water Project pumps and the Delta-Mendota Canal/California Aqueduct Intertie. The projects share costs for actions needed to meet joint responsibilities under the Endangered Species Act.

II. THREATENED AND ENDANGERED FISH SPECIES AFFECTED BY THE CENTRAL VALLEY PROJECT

The Central Valley Project exports water from “an important habitat for thousands of river and anadromous fish, many of which are endangered.” *San Luis & Delta-Mendota Water Auth. v. Locke*, 776 F.3d 971, 980-81 (9th Cir. 2014). Project operations impact the endangered

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 4

Sacramento River winter-run Chinook salmon, threatened Central Valley spring-run Chinook salmon, threatened California Central Valley steelhead, and threatened Delta smelt.

A. Sacramento River Winter-Run Chinook Salmon

The adult winter-run salmon typically migrate upstream through the Sacramento-San Joaquin Delta from November through July, with the peak presence from February through April. The winter-run salmon spawn during the spring and summer months in the upper Sacramento River. Emigrating juvenile winter-run salmon occur in the Sacramento-San Joaquin Delta primarily in November through early May. The ocean life cycle of the Chinook salmon lasts between 1 and 5 years. Shasta Dam blocks the winter-run salmon's access to its historical spawning and rearing area in the upper Sacramento River. Salmon that had previously spawned upstream of Shasta Dam have been forced to spawn downstream of Keswick Dam on the Sacramento River. The cold-water management of Shasta Dam presently supports a single winter-run salmon population below the dam.

In 1989, NMFS took emergency action to designate the winter run of Chinook salmon in the Sacramento River as a threatened species under the Endangered Species Act, following the emergency rule with a more permanent one in 1990 designating the species as endangered. Endangered and Threatened Species, Critical Habitat, Winter-run Chinook Salmon, 54 Fed. Reg. 32085 (Aug. 4, 1989) (emergency rule); Endangered and Threatened Species; Sacramento River Winter-run Chinook Salmon, 55 Fed. Reg. 46515-01 (Nov. 5, 1990). By that time, the species had declined by more than 97 percent over a period of less than two decades. *Id.* Subsequently, in 1994, NMFS listed the species as endangered. Endangered and Threatened Species; Status of Sacramento River Winter-run Chinook Salmon, 59 Fed. Reg. 440-01 (Jan. 4, 1994). NMFS first designated critical habitat for winter-run salmon as part of its 1989 emergency rule; subsequent rules have expanded the habitat throughout the Sacramento River watershed and the Bay-Delta. The species was classified as endangered under the state California Endangered Species Act (CESA) in 1989. Cal. Code Regs. tit. 14, § 670.5(a)(2)(M).

The drought of 2014-2016 hit the winter-run population particularly hard. In 2014 and 2015, around 95 percent of brood year egg and fry died. Although returns improved in 2018, the winter-run Chinook salmon remain at a high risk of extinction.

B. Central Valley Spring-Run Chinook Salmon

The adult spring-run Chinook salmon typically begin their upstream migration in the Bay-Delta region in January and February and are present in the Sacramento River and its tributaries from March through October.² Spawning occurs in the Sacramento River and its

² The spring-run Chinook salmon is an evolutionarily significant unit. Historically, it was the second-most abundant salmon run in the Central Valley.

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 5

tributaries from mid-August through October. Juvenile spring-run salmon generally are found in the Bay-Delta region between December and May but can be present year-round. Like winter-run salmon, the ocean life cycle of the spring-run Chinook salmon lasts between 1 and 5 years.

This run was originally proposed for listing as endangered, but NMFS instead listed it as threatened in 1999, following extensive meetings, hearings, and peer review. Endangered and Threatened Species; Threatened Status for Two Chinook Salmon Evolutionarily Significant Units (ESUs) in California, 64 Fed. Reg. 50394-01. The State of California listed the “spring-run chinook salmon of the Sacramento River drainage” as threatened under CESA in 1999. NMFS reaffirmed its “threatened” listing and designated spring-run critical habitat in 2005. 70 Fed. Reg. 37160 (reaffirming listing); 70 Fed. Reg. 37204 (hatchery fish); 70 Fed. Reg. 52488 (critical habitat).

Spring-run abundance dropped in 2015 as a result of the drought, according to a five-year study released by NMFS in 2016. NMFS, 5-Year Review: Summary and Evaluation of Central Valley Spring-run Chinook Salmon Evolutionarily Significant Unit (April 2016). The 5-year study cites high egg and fry mortality during the drought, poor ocean conditions, and straying as among the lingering threats to the population. *Id.* at 18.

C. California Central Valley Steelhead

The majority of Central Valley steelhead originate in the Sacramento River basin, although a small population exists in tributaries to the San Joaquin River. Spawning adult steelhead generally enter the San Francisco Bay estuary and Delta from August through April. Spawning occurs from December through April. In the Sacramento River, steelhead generally migrate to the ocean from early winter to early summer, but can be present year-round. In the San Joaquin River, emigration of steelhead generally occurs from February to June.

Central Valley steelhead were listed as threatened by NMFS on March 18, 1998, and confirmed as a distinct population segment in 2006. 63 Fed. Reg. 13347 (1998); 71 Fed. Reg. 834 (2006). NMFS delineated and designated critical habitat in 2005. 70 Fed. Reg. 52488.

At their population’s peak, an estimated 1 to 2 million spawning adults returned to the Sacramento River. Now, only a few thousand females spawn. 71 Fed. Reg. 834, 852. Estimates of juvenile steelhead abundance based on results of the USFWS Chipps Island midwater trawl surveys showed a declining trend in juvenile abundance between 1995 and 1997 with consistently low abundance (densities) every year between 1998 and 2007. *Pac. Coast Fed’n of Fishermen’s Associations v. Gutierrez*, 606 F. Supp. 2d 1195, 1223 (E.D. Cal. 2008).

D. Delta Smelt

The Delta smelt (*Hypomesus transpacificus*) is a small fish that does not typically exceed 4.5 inches (approximately 120 mm) in length, with the majority living only one year. Delta

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 6

smelt generally spawn from February through May in various locations from Suisun Bay and Marsh and eastward into the Sacramento-San Joaquin Delta. Smelt larvae hatch and enter the juvenile life stage by June or early July. Most of the juvenile fish continue to rear in habitats from Suisun Bay and Marsh, while smaller subsets of the population rear in more eastward areas, principally along the Sacramento River-Cache Slough corridor. The fish develop into maturing adults in the fall, at which time their spatial distribution expands.

In March 1993, the USFWS listed the species as threatened. 50 C.F.R. § 17.11. Subsequently, in 1994, USFWS designated the Delta as critical habitat for the Delta smelt, designating the “physical habitat, water, river flow, and salinity concentrations required to maintain delta smelt habitat for spawning, larval and juvenile transport, rearing, and adult migration” to be the primary constituent elements of that habitat. 50 C.F.R. § 17.95 (e). The species further declined throughout the 1990s and into the 2000s. *San Luis & Delta-Mendota Water Auth. v. Jewell*, 747 F.3d 581, 596 (9th Cir. 2014). The California Department of Fish and Wildlife (CDFW) classified the Delta smelt as threatened under CESA in 1993 (Calif. Dept. of Fish and Game, Report to the Fish and Game Commission: a Status Review of the Threatened Delta Smelt (*Hypomesus Transpacificus*) In California (2008) at 5), and then reclassified the Delta smelt as endangered in 2010 (Cal. Code Regs. tit. 14, § 670.5). In 2010, USFWS found that listing the Delta smelt as an endangered species was “warranted, but precluded by other higher priority listing actions.” Endangered and Threatened Wildlife and Plants; 12-Month Finding on a Petition to Reclassify the Delta Smelt From Threatened to Endangered Throughout Its Range, 75 Fed. Reg. 17667-01 (Apr. 7, 2010). USFWS found that “[o]peration of upstream reservoirs, increased water exports, and upstream water diversions” negatively impacted the Delta smelt’s habitat. *Id.*

Delta smelt populations have significantly declined in recent years. In 2017, the CDFW Fall Midwater Trawl captured just two individual Delta smelt. It captured zero Delta smelt in 2018 and in 2019. Similarly, the Spring Kodiak Trawl detected the decline in smelt abundance, with the 2019 Spring Kodiak Trawl also capturing just two fish. This once-abundant species “is ... in imminent danger of extinction.” *Jewell*, 747 F.3d at 595-96.

LEGAL AND PROCEDURAL BACKGROUND

I. THE REQUIREMENTS OF THE ENDANGERED SPECIES ACT

Congress enacted the Endangered Species Act (ESA) nearly 45 years ago in a bipartisan effort “to halt and reverse the trend toward species extinction, whatever the cost.” *Tennessee Valley Auth. v. Hill*, 437 U.S. 153, 184 (1978); *see also* 16 U.S.C. § 1531(a). The ESA reflects a national policy of “institutionalized caution” in recognition of the “overriding need to *devote whatever effort and resources [are] necessary* to avoid further diminution of national and worldwide wildlife resources.” *Hill*, 437 U.S. at 177, 194 (internal quotation omitted, emphasis in original). The ESA constitutes “the most comprehensive legislation for the preservation of endangered species ever enacted by any nation.” *Id.* at 180.

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 7

Section 9 of the ESA prohibits any person from “taking” any listed fish or wildlife species. 16 U.S.C. § 1538(a)(1)(B), (G). “Take” is broadly defined as “to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect or attempt to engage in any such conduct.” *Id.* § 1532(19).

Section 7 of the ESA requires all federal agencies to ensure that any actions they authorize, fund, or carry out are “not likely to jeopardize the continued existence of any listed species or destroy or adversely modify their designated critical habitat.” 16 U.S.C. § 1536(a)(2). “Jeopardize the continued existence of” an endangered species “means to engage in an action that reasonably would be expected, directly or indirectly, to reduce appreciably the likelihood of both the survival and recovery of a listed species in the wild by reducing the reproduction, numbers, or distribution of that species.” 50 C.F.R. § 402.02.³

An agency proposing an action that may affect a listed species must consult with either NMFS or USFWS, depending on the species involved. The consulting agency reviews the proposed action and prepares a biological opinion that evaluates whether the proposed action will jeopardize the continued existence of the species or adversely modify its critical habitat. *See Turtle Island Restoration Network v. U.S. Dep’t of Commerce*, 878 F.3d 725 (9th Cir. 2017) (citing 16 U.S.C. § 1536(b); 50 C.F.R. § 402.12). If the biological opinion finds that the proposed action would not jeopardize a listed species’ continued existence, NMFS or USFWS can issue a statement permitting the incidental “take” of a certain number of protected animals. *Id.* (citing 16 U.S.C. § 1539(a)(1)(B)). The incidental take statement must provide “an articulated, rational connection” between the condition and the take of the species. *Arizona Cattle Growers’ Ass’n v. U.S. Fish & Wildlife*, 273 F.3d 1229, 1251 (9th Cir. 2001). The statement must specify how the action agency is to monitor and report the effects of the action on listed species. *Wild Fish Conservancy v. Salazar*, 628 F.3d 513, 532 (9th Cir. 2010). And the incidental take statement must provide “a meaningful trigger for renewed consultation after the take exceed[s] authorized levels.” *Id.* Only compliance with a valid Section 7 incidental take statement exempts a federal agency from the Section 9 take prohibition. *Ramsey v. Kantor*, 96 F.3d 434, 441 (9th Cir. 1996).

Each federal agency has its own independent duty—regardless of the findings of a biological opinion—to avoid jeopardy or adverse modification of critical habitat. *Ctr. for Biological Diversity v. U.S. Bureau of Land Mgmt.*, 698 F.3d 1101, 1128 (9th Cir. 2012). If an

³ On August 27, 2019, the USFWS and NMFS published a final rule (84 Fed. Reg. 44976-01) to revise portions of the regulations that implement section 7 of the ESA. The rule became effective on October 28, 2019, a week after the Services issued the 2019 Biological Opinions on October 21, 2019. *See* 84 Fed. Reg. 50333-01. Numerous states, including California, have joined to file a complaint challenging the revised regulations in federal court, *State of California et. al, v. Bernhardt*, No. 3:19-cv-06013 (N.D. Cal.). The 2019 Biological Opinions expressly apply the previous regulations to the consultation.

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 8

agency's action would jeopardize the species or harm critical habitat, "then the agency must terminate the action, implement an alternative proposed by the Secretary, or seek an exemption from the Cabinet-level Endangered Species Committee." *Weyerhaeuser Co. v. U.S. Fish and Wildlife Service*, 139 S.Ct. 361, 366 (2018).

II. CONSULTATION HISTORY

On August 2, 2016, Reclamation and DWR wrote to USFWS and NMFS requesting reinitiation of consultation under section 7 of the Endangered Species Act regarding the coordinated long-term operations of the Central Valley Project and State Water Project. Reclamation and DWR requested the new consultation "based on new information related to multiple years of drought and recent data demonstrating low Delta smelt populations," and noted that additional scientific information was "available and expected to become available." At the time, the two projects had incidental take authorization for the projects' take of ESA-listed species through a 2008 USFWS biological opinion and a 2009 NMFS biological opinion. These biological opinions concluded that the proposed project operations would jeopardize ESA-listed fish species and would adversely affect the species' critical habitat. The opinions therefore required the projects to meet additional fishery protection requirements known as reasonable and prudent alternatives. *See* 16 U.S.C. § 1536(b)(3)(A).

On August 3, 2016, USFWS, which has jurisdiction over the Delta smelt, responded to the request for reinitiation of consultation, noting, "We recognize that this new information is demonstrating the increasingly imperiled state of the Delta Smelt and its designated critical habitat, and that emerging science shows the importance of outflows to all life stages of Delta Smelt and to maintaining the primary constituent elements of designated critical habitat." The letter further commended the projects for their "efforts towards providing additional protections for the imperiled Delta Smelt and its designated critical habitat."

On August 17, 2016, NMFS, which has jurisdiction over the salmonid species, responded to the request for reinitiation of consultation, stating, "Reasons for the reinitiation include new information related to the effects of multiple years of drought, recent data demonstrating extremely low abundance levels for endangered Sacramento River winter-run Chinook salmon and threatened Central Valley spring-run Chinook salmon, and new information resulting from ongoing scientific collaboration."

On December 29, 2017, Reclamation published a Notice of Intent to Prepare a Draft Environmental Impact Statement, Revisions to the Coordinated Long-Term Operation of the Central Valley Project and State Water Project, and Related Facilities in the Federal Register, noting that it "propose[d] to evaluate alternatives that maximize water deliveries and optimize marketable power generation." 82 Fed. Reg. 61789.

On October 19, 2018, President Donald J. Trump issued a "Presidential Memorandum on Promoting the Reliable Supply and Delivery of Water in the West" (Presidential Memo). 83

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 9

Fed. Reg. 53961. The Presidential Memo required completion of the final biological opinions for the long-term coordinated operations of the projects by June 15, 2019. *Id.*

On January 31, 2019, Reclamation sent its Biological Assessment to NMFS and USFWS, which included a description of proposed project operations (Proposed Action). Reclamation submitted revisions to the Proposed Action in April, July, and October 2019. NMFS BiOp at 12-13.

On or about June 6, 2019, USFWS completed its draft biological opinion for the Delta smelt. On or about July 1, 2019, NMFS completed its draft biological opinion for the salmonid species. The draft salmonid biological opinion found jeopardy and adverse modification of critical habitat for winter-run Chinook salmon and included “reasonable and prudent alternatives” designed to avoid jeopardizing the species.

On August 21, 2019, CDFW submitted its “Comments on the Reinitiation of Consultation on the Coordinated Long-Term Operation of the Central Valley Project and State Water Project Draft Environmental Impact Statement.” Letter to David Mooney from CDFW Water Branch Chief Joshua Grover (Aug. 21, 2019) (CDFW ROC Comments).

On October 21, 2019, NMFS and USFWS issued their final biological opinions. Unlike the 2008 USFWS and 2009 NMFS opinions and the draft salmonid opinion, the 2019 Biological Opinions concluded that the Proposed Action would not jeopardize any ESA-listed species and would not adversely affect the species’ critical habitat.

On December 19, 2019, Reclamation issued its final environmental impact statement proposing to adopt the 2019 Biological Opinions. Reclamation issued the Record of Decision adopting the 2019 Biological Opinions on February 19, 2020.

DEFICIENCIES IN THE BIOLOGICAL OPINIONS

A biological opinion is a final agency action subject to judicial review under the federal Administrative Procedure Act (APA), 5 U.S.C. § 702; *Nat’l Wildlife Fed’n v. Nat’l Marine Fisheries Serv.*, 524 F.3d 917, 925 (9th Cir. 2008). This standard requires the agency to “examine the relevant data and articulate a satisfactory explanation for its action, including a ‘rational connection between the facts found and the choice made.’” *Motor Vehicle Mfrs. Ass’n v. State Farm Mut.*, 463 U.S. 29, 43 (1983); *Pac. Coast Fed’n of Fisherman’s Ass’n v. U.S. Bureau of Reclamation*, 426 F.3d 1082, 1090 (9th Cir. 2005). Under the APA, a federal agency decision must be based “on consideration of the relevant factors” and cannot “entirely fail to consider an important aspect of the problem.” *State Farm Mut.*, 463 U.S. at 43. The agency must “use the best scientific and commercial data available.” 16 U.S.C. § 1536(a)(2). Moreover, the Ninth Circuit has held that mitigation measures applied in fishery protections must be “under agency control or otherwise reasonably certain to occur.” *Nat’l Wildlife Fed’n*, 524 F.3d at 936 n.17; *see also Rock Creek All. v. U.S. Fish & Wildlife Serv.*, 663 F.3d 439, 444 (9th

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 10

Cir. 2011). Finally, a federal agency cannot divide a project into “incremental steps” for purposes of the ESA analysis, but must instead consider the whole project. *Conner v. Burford*, 848 F.2d 1441, 1455 (9th Cir. 1986); *Wild Fish Conservancy v. Salazar*, 628 F.3d 513, 525 (9th Cir. 2010).

The 2019 Biological Opinions fail to meet the requirements of the ESA and are therefore arbitrary and capricious under the APA, as follows:

- I. **Rational Connection and All Relevant Factors:** The 2019 Biological Opinions acknowledge that the populations of listed species have declined precipitously and are perilously close to extinction or extirpation, but the opinions do not account for that status in concluding that the Proposed Action will not jeopardize the species.
- II. **Not “Reasonably Certain to Occur”:** The 2019 Biological Opinions provide “off-ramps” and other loopholes that allow Reclamation to avoid the constraints in the operational criteria. Further, although most conservation measures will not be implemented for several years, the USFWS BiOp does not account for near-term impacts.
- III. **All Aspects of the Project:** The 2019 Biological Opinions fail to analyze key components of the Proposed Action, including a proposal to raise the Shasta Dam.
- IV. **Recovery:** The 2019 Biological Opinions fail to meet the requirement that a biological opinion address not just impacts to the continued survival of listed species, but also the potential to reduce appreciably the likelihood of their recovery. *See Nat’l Wildlife Fed’n*, 524 F.3d at 931-32.
- V. **Incidental Take Statements:** The 2019 Biological Opinions’ incidental take statements fail to provide adequate parameters to ensure species protection.

Each of these deficiencies is discussed in greater detail below.

I. THE 2019 BIOLOGICAL OPINIONS FAIL TO CONSIDER ALL RELEVANT FACTORS AND DO NOT SHOW A RATIONAL CONNECTION BETWEEN THE FACTS FOUND AND CONCLUSIONS REACHED.

A biological opinion must articulate a “rational connection between the facts found and the choice made,” using the best available science. *Burlington Truck Lines, Inc. v. United States*, 371 U.S. 156, 168 (1962); *Center for Biological Diversity v. Zinke*, 900 F.3d 1053, 1068 (9th Cir. 2018). A biological opinion must also consider all relevant factors and cannot “entirely fail to consider ... important aspect[s] of the problem,” *Motor Vehicle Mfrs. Ass’n v. State Farm Mut.*, 463 U.S. 29, 43 (1983). The 2019 Biological Opinions fail to meet these requirements.

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 11

As a preliminary matter, both opinions fail to apply the correct standard under the ESA. Rather than evaluating whether the Proposed Action will jeopardize the listed species' survival and recovery as the law requires, the opinions simply compare the effects of the Proposed Action to the Current Operating Scenario. Further, after describing the increasingly precarious state of the species, including the real possibility of species' imminent extinction, the opinions fail to account for the species' significant abundance declines when evaluating the effects of the Proposed Action.

The opinions ultimately allow increased pumping based on nebulous operational criteria that largely offer no better, and in some cases much worse, protection than the Current Operating Scenario, while relying on conservation measures that will not ameliorate conditions in the near term. The opinions conclude without evidence that, despite causing greater entrainment of listed species and reducing or degrading their habitat, increased exports will not jeopardize the species or adversely affect their critical habitats. Thus, the opinions do not consider all relevant factors, and their no-jeopardy conclusions are not rationally connected to the facts found.

A. The Biological Opinions Improperly Focus on a Comparison of the Proposed Action to the Current Operating Scenario in the Effects Analysis.

The 2019 Biological Opinions both conclude that the Proposed Action will not jeopardize the continued existence of listed species, based on a finding that impacts would be similar to the Current Operating Scenario set forth in the 2008 and 2009 biological opinions. *See* USFWS BiOp at 220-21; NMFS BiOp at 797. But the question that the Services were legally required to answer is not whether the Proposed Action is similarly protective of the listed species as the Current Operating Scenario. The question is whether, based on the best scientific and commercial information available now, some ten years after those earlier opinions were adopted, the Proposed Action will jeopardize the continued existence of the species or adversely affect their critical habitat.

It is not reasonably subject to dispute that listed species have continued to decline while the Current Operating Scenario has been in effect. *See* USFWS BiOp at 84, 86, 87 (noting that in 2018, the Fall Midwater Trawl survey found zero Delta smelt for the first time, while the Summer Townet Survey has found zero Delta smelt four times since 2015); NMFS BiOp at 75 (noting the "continued low abundance, a negative growth rate over two complete generations, [and] significant rate of decline since 2006" for winter-run Chinook salmon). This continued decline was one of the reasons for reinitiating consultation in 2016.

Despite these facts, the NMFS BiOp finds that the Proposed Action keeps "risks comparable to risks under the NMFS 2009 Opinion." NMFS BiOp at 543. This approach ignores the relevant factor of the significant declines in listed salmon population abundances and the fact that the listed salmon populations remain at risk of extinction. Similarly, the USFWS BiOp concludes that entrainment risks for Delta smelt are minimized because the risks are

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 12

purportedly no greater than the risks that would occur under the prior 2008 Biological Opinion. USFWS BiOp at 219-220. However, if species abundance has materially declined since 2008, adopting measures that provide equivalent protection as provided in the 2008 Biological Opinion, absent additional measures or further evidence, fails to consider the subsequent decline in species abundance and the causes of that decline, and thus does not consider “all relevant” factors.

Relying solely on protections that are similar to the current situation ignores the possibility that the previous protections were not protective enough or that other stressors require different protective measures. Without undertaking that additional analysis, the opinions cannot reasonably conclude that the Proposed Action would not jeopardize the continued existence of listed species. They therefore fail to articulate a rational connection between the facts found and the conclusions reached.

B. The Biological Opinions Fail to Properly Analyze Whether the Proposed Action Would Tip the Species into Extinction.

The 2019 Biological Opinions fail to adequately explain why the additional detrimental effects caused by the Proposed Action (discussed in further detail below) would not jeopardize the listed species when added to the degraded baseline conditions. In *National Wildlife Federation v. National Marine Fisheries Service*, 524 F.3d 917, 930 (9th Cir. 2008), the Ninth Circuit rejected the argument that NMFS “may satisfy the ESA by comparing the effects of proposed ... operations on listed species to the risk posed by baseline conditions,” such that a “full jeopardy analysis” is required “[o]nly if those effects are ‘appreciably’ worse than baseline conditions.” The court explained that the ESA “seeks to prevent” the “type of slow slide into oblivion” that would occur under this approach, where “a listed species could be gradually destroyed, so long as each step on the path to destruction is sufficiently modest.” *Id.* Thus, agencies may not take actions that would “tip a species from a state of precarious survival into a state of likely extinction.” *Id.*; see also *Turtle Island Restoration Network v. U.S. Dep’t of Commerce*, 878 F.3d 725, 737-738 (9th Cir. 2017).

According to the 2019 Biological Opinions, “Reclamation established a without action scenario as part of the Environmental Baseline to isolate and define potential effects of the Proposed Action apart from effects of non-Proposed Action causes.” See USFWS BiOp at 63. The NMFS BiOp notes that “the without action scenario is a useful analytical tool to separate some of the effects related to the existence of CVP and SWP facilities and provides context for how these facilities have shaped and continue to affect the species and critical habitat in the action area.” NMFS BiOp at 137. But after identifying effects attributable to other causes for inclusion in the baseline, the biological opinions fail to take the crucial additional step of evaluating whether, in light of that baseline, the Proposed Action will increase the likelihood of species extinction.

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 13

A thorough description of the environmental baseline is not a substitute for actual analysis of whether the effects of the Proposed Action added to baseline conditions would or would not tip a species into extinction. As the Ninth Circuit has explained, “even when baseline conditions already jeopardize a species, an agency may not take action that deepens the jeopardy by causing additional harm.” *Nat’l Wildlife Fed’n*, 524 F.3d at 930. The opinions’ no-jeopardy conclusions are unlawful because they are not based on an analysis of the Proposed Action in its “actual context.” *See id.*

C. NMFS BiOp Modeling Reveals Higher Extinction Risk from the Proposed Action.

The NMFS BiOp notes that many of the listed salmonid species have experienced troubling population declines, with winter-run Chinook salmon perilously close to extirpation. And the opinion’s modeling demonstrates that the Proposed Action will decrease through-Delta survival for juvenile salmon and is more likely to cause deeper population declines than the Current Operating Scenario. Thus, the opinion’s no-jeopardy conclusion is not rationally connected to the facts found.

1. Winter Run Model

The Winter-Run Chinook Salmon Life Cycle Model (Winter Run Model)—used to estimate key population characteristics for winter-run Chinook salmon—shows that rather than addressing the declining winter-run population, the Proposed Action will likely increase the extinction risk that the species faces. The Winter Run Model shows that mean winter-run abundance will be 3.05 percent less under the Proposed Action relative to the Current Operating Scenario. This mean is derived from the combination of model runs that demonstrate that for all water-year types other than Wet, “the estimates of survival to Chipps Island for Delta-reared winter-run Chinook salmon smolts is consistently higher” for the Current Operating Scenario compared to the Proposed Action. NMFS BiOp at 384-85.

Over the long record of historical conditions it analyzes, the Winter Run Model also shows higher relative probability of a 10 percent or greater decline in spawner abundance for the Proposed Action than the Current Operating Scenario. Fisheries biologists have identified such an event as an important predictor of extinction. As shown in the table from the NMFS BiOp below, the probability that the Proposed Action will have more 10 percent declines over a single year than the Current Operating Scenario is 45.6 percent. NMFS BiOp at 706-07. The probability that there will be an equal number of these events is 27.9 percent, and the probability that the Current Operating Scenario will have more 10 percent declines over a single year is 26.5 percent. *Id.* In other words, the most likely outcome is that the Proposed Action will lead to more extinction-risk events than the Current Operating Scenario, a fact that points toward a jeopardy finding.

Secretary David Bernhardt
 Secretary Wilbur Ross
 Commissioner Brenda Burman
 February 20, 2020
 Page 14

NMFS also uses the results of the Winter Run Model to analyze the probability of a 10 percent or greater spawner abundance decline over 4, 12, and 20 years. For each time period, the probability that the Proposed Action has more of these longer-term declines in spawner abundance is always higher than 44 percent, and the Proposed Action's most likely result for each measured time period is also a more significant decline. *Id.* The Winter Run Model iterations show particularly troublesome results over the 20-year time period. The probability that the Proposed Action will result in relatively more 10 percent abundance declines over 20-year time lags within the model's 75-year timeframe is 58.9 percent. *Id.*

Table 133. Relative probability of events in which there is a decline in spawner abundance of greater than ten percent at time lags of 1, 4, 12, or 20 years for the current operating scenario and proposed action.

	1 Year	4 Years	12 Years	20 Years
Pr (current operating scenario has more events)	0.265	0.235	0.296	0.171
Pr (equal number of events)	0.279	0.234	0.26	0.24
Pr (PA has more events)	0.456	0.531	0.444	0.589

NMFS concludes that the Proposed Action will not increase abundance or productivity of winter-run Chinook salmon, “but assumes that *results would be similar to those of current operations.*” NMFS BiOp at 707 (emphasis added). As the results of the modeling described (and pictured) above show, NMFS’s no-jeopardy conclusion, based on the assertion that the results of the Proposed Action would be similar to the current operations, does not follow from the evidence, to the detriment of the species’ chances of survival.

Additionally, the Winter Run Model predicts higher variance in spawner abundance than currently. A higher variance in the average spawner abundance of one scenario relative to another is described by larger swings in the spawner abundance with higher peaks and lower lows. NMFS BiOp at 707. Lower lows are especially dangerous for endangered and threatened populations because if that “low” dips below the critical threshold, the species will be extirpated. For winter-run Chinook salmon, the Winter Run Model estimates that variance will be 6.23 percent higher under the Proposed Action than in the Current Operating Scenario. *Id.* As a result, dangerous lows in spawner abundance will become more frequent and the possibility of species extirpation more likely.

2. Delta Passage Model

The Delta Passage Model estimates the mean through-Delta survival for each Chinook salmon population. Over the past ten years of operations under the Current Operating Scenario, ESA-listed salmon populations have continued to face high risks of extinction. In comparative model runs, Delta Passage Model estimates generally demonstrate that the Proposed Action will

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 15

lead to either similar or lower through-Delta survival rates than the Current Operating Scenario, which has not reduced the extinction risk for the salmon species.

- For winter-run Chinook salmon, the largest difference in survival rates occurs in Dry and Critical years, where the Proposed Action lowers the survival rates by 0.24 percent and 0.21 percent, respectively. NMFS BiOp at 382. In the other water-year types, the modeled median survival reflected a relative change of 0.02 percent or less. *Id.*
- For spring-run Chinook salmon, the largest difference occurs during Wet water years, for which the model estimates that the Proposed Action will result in a survival rate that is 0.98 percent lower than the survival rate under the Current Operating Scenario. NMFS BiOp at 382-83. In Dry years, the modeled change in relative survival rates is 0.11 percent. NMFS BiOp at 383.

Given the precarious condition of the populations of these species, even these relatively minor decreases in survival could have significant impacts on the listed salmon populations. A rational connection cannot be drawn between the “no-jeopardy” finding and these results showing that the Proposed Action is likely to lower through-Delta survival below the already challenging Delta environment facing the species under the Current Operating Scenario.

3. Perry Survival Model

The Perry Survival Model simulates the effects of operations and hydrology on daily cohorts of juvenile Chinook salmon migrating through the Delta from the Sacramento River. Based on the results of this model, early-arriving “winter-run Chinook salmon juveniles and yearling spring-run Chinook salmon are the two groups of salmonids that will be affected most by the proposed action.” NMFS BiOp at 402.

- Early-arriving winter-run Chinook salmon risk being routed into the interior Delta through open Delta Cross Channel gates in October and November, which reduces the survival of early-arriving winter-run Chinook juveniles by up to 10 percent, depending on water-year type. NMFS BiOp at 400. In November specifically, through-Delta survival drops from 45 percent under the Current Operating Scenario to 30 percent under the Proposed Action. NMFS BiOp at 390. Although these “early-arriving” winter-run Chinook are a relatively small portion of the population (~5 percent), it is important to the likelihood of species survival to maintain the greatest possible lifecycle diversity. NMFS BiOp at 33 (importance of lifecycle diversity), 400 (population estimates).
- Yearling spring-run Chinook salmon that enter the Delta in October and November would face higher risks of being routed into the interior Delta. NMFS BiOp at 400. This leads to longer travel routes, which reduces survival. As with winter-run Chinook

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 16

salmon, maintaining life history diversity is an important factor in the resilience of the species, and the model's results demonstrate that for October and November, the Proposed Action will decrease through-Delta survival compared to the Current Operating Scenario, increase the number of fish routed into the interior Delta, and increase the through-Delta travel time of fish. NMFS BiOp at 402.

4. Salvage Density Modeling Results

The NMFS biological opinion discloses results from salvage density modeling that also directly conflict with the opinion's no-jeopardy finding. Salvage of ESA-listed salmonid species occurs when the projects' South Delta pumping operations draw out-migrating salmonids into the pumping facilities. The salvage density modeling conducted by NMFS demonstrates that in all water-year types the Proposed Action results in higher salmonid loss than under the Current Operating Scenario. NMFS BiOp at 489 (Table 69), 500 (Table 79), 509-10 (Table 89). NMFS may contend that the September 19, 2019 revisions to the Proposed Action address these adverse model results. However, NMFS admits that under the final Proposed Action, "it is uncertain how exactly exports and Old and Middle River flows under the final proposed action will change in a given month and year type compared to the original proposed action." NMFS BiOp at 542. Given this admission, NMFS cannot conclude with any certainty that the Proposed Action will alter the adverse salvage results set forth in the modeling of the original proposed action. NMFS's modeling findings that the Proposed Action will increase salmonid salvage loss when compared to the Current Operating Scenario therefore are not rationally connected to the opinion's no-jeopardy conclusion.

D. The USFWS BiOp Fails to Address the Proposed Action's Negative Impacts to the Delta Smelt.

The USFWS BiOp acknowledges that the Delta smelt are on the verge of extinction in the wild, yet it proposes to increase exports—likewise increasing the likelihood of smelt entrainment—and to reduce suitable habitat, while relying on uncertain measures to mitigate these negative effects. Despite previously acknowledging that the Delta smelt require additional protections over those provided in the Current Operating Scenario, the USFWS BiOp allows increased pumping based on operational criteria and conservation measures that largely offer no better, and in some cases much worse, protection than the Current Operating Scenario, and ultimately concludes that the Proposed Action will not jeopardize the survival and recovery of the Delta smelt or adversely affect its critical habitat. This no-jeopardy conclusion does not follow from the evidence, and it is therefore arbitrary and capricious.

Specific examples of the USFWS BiOp's inadequate analysis of negative impacts on Delta smelt are discussed below.

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 17

1. Entrainment

The USFWS BiOp finds that entrainment of adult Delta smelt will be similar to the Current Operating Scenario, while entrainment of larval and juvenile Delta smelt will increase. USFWS BiOp at 212. Setting aside the fact that the Delta smelt have precipitously declined under the Current Operating Scenario, the BiOp’s modeling to determine entrainment risk is based on assumptions that are not reflected in the Proposed Action: “Important assumptions that were used in the CalSim II model . . . differ from what is described in the [Proposed Action].” USFWS BiOp at 140. In fact, exports may significantly increase under the Proposed Action because of multiple off-ramps—discussed in further detail in section III(B)(1) below—that render actual operations difficult if not impossible to ascertain. The effects of the significantly increased exports, which are not only possible but probable, have not been modeled or even discussed. Such increased exports would likely result in increased entrainment of Delta smelt at all life stages. The BiOp fails to articulate a rational connection between the facts found and its no-jeopardy conclusion.

2. Fall X2

X2 “represents the number of kilometers the salt water has moved into the Delta from the Golden Gate Bridge,” and increases as the amount of fresh water in the Delta decreases. *Westlands Water Dist. v. U.S. Dep’t of Interior*, 376 F.3d 853, 876 (9th Cir. 2004). Current measures protect Delta smelt by maintaining X2 at 74 km in wet years and 81 km in above-normal years in September and October, known as Fall X2.

The Summer-Fall Habitat Action proposes to maintain X2 at 80 km from the Golden Gate in Above Normal and Wet water years in September and October, up from 74 km in the Current Operating Scenario. USFWS BiOp at 51. Just before the release of the BiOp, USFWS conceded that elimination of the 74 km Fall X2 requirement would adversely affect the Delta smelt’s critical habitat. Bureau of Reclamation Fall X2 Mem. at 3 (Sept. 4, 2019) (admitting that “the proposed action would adversely affect Delta Smelt designated critical habitat”); USFWS Fall X2 Mem. at 6 (Sept. 18, 2019) (approving modification while conceding that the proposed action would likely result in a percentage loss of low salinity zone habitat for the Delta smelt of between 7.7 and 13 percent); CDFW Fall X2 Letter at 2 (Sept. 24, 2019) (notifying Reclamation of its conclusion that implementing the Fall X2 modifications “would undermine necessary species protections even as Delta Smelt decline to record-low abundance.”). The BiOp’s no-jeopardy conclusion does not follow from the fact that the Proposed Action would likely reduce the Delta smelt’s critical habitat, to the detriment of the fish, without providing sufficient measures to off-set the habitat loss.

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 18

II. THE 2019 BIOLOGICAL OPINIONS IMPERMISSIBLY RELY ON OPERATIONAL CRITERIA AND CONSERVATION MEASURES THAT ARE NOT REASONABLY CERTAIN TO OCCUR.

While agencies may rely on mitigation and conservation measures in reaching a no-jeopardy conclusion, such measures, must be “under agency control or otherwise reasonably certain to occur.” *Nat’l Wildlife Fed’n*, 524 F.3d at 936 n.17. “Reasonably certain” measures are those with “specific and binding plans” that include “a clear, definite commitment of resources.” *Id.* at 935-936. Relied-on measures must also be “subject to deadlines or otherwise-enforceable obligations; and most important, they must address the threats to the species in a way that satisfies the jeopardy and adverse modification standards.” *Ctr. for Biological Diversity v. Rumsfeld*, 198 F. Supp. 2d 1139, 1152 (D. Ariz. 2002). “Where one cannot determine what will happen when [conservation or] mitigation measures are implemented, they may not be relied upon to avoid jeopardy.” *AquAlliance v. U.S. Bureau of Reclamation*, 287 F. Supp. 3d 969, 1072 (E.D. Cal. 2018), *appeal dismissed sub nom. AquAlliance v. U.S. Bureau of Reclamation*, No. 18-16666, 2019 WL 4199912 (9th Cir. June 25, 2019). Similarly, a “BiOp may not rely on future mitigation to support a no adverse modification conclusion without discussing the interim effects on the species.” *S. Yuba River Citizens League v. Nat’l Marine Fisheries Serv.*, 723 F. Supp. 2d 1247, 1279 (E.D. Cal. 2010).

The 2019 Biological Opinions rely on operational criteria and other conservation measures that are not reasonably certain to occur, are of questionable effectiveness, or post-date implementation of the Proposed Action, as discussed below. *See Nat’l Wildlife Fed’n*, 524 F.3d at 936.

A. NMFS BiOp

1. Delta Cross Channel Gates Operation

When the Delta Cross Channel (DCC) gates are open, the water moving from the Sacramento River into the interior Delta provides false migration cues for juvenile and adult salmon, steelhead and sturgeon. These cues cause juvenile fish to move into the central Delta rather than the western Delta and San Francisco Bay. NMFS BiOp at 415.

Conditions for closing the DCC gates to protect fishery resources were first instituted by the California State Water Resources Control Board (State Water Board) in 1978. The NMFS BiOp considers proposed alterations to these fishery protections that will allow the DCC gates to be opened more frequently and only closed when endangered fish are captured at either Knights Landing or Sacramento. But the water quality criteria imposed by the State Water Board’s Decision 1641 may require the DCC gates to be open to provide high-quality water to the interior Delta. The Proposed Action does not offer any certainty on whether the DCC will be open or closed in the event that fish are emigrating but the interior Delta water quality is too low. Instead, NMFS accepts that “Reclamation and DWR will determine what to do with a risk

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 19

assessment.” NMFS BiOp at 417. Without more, this allowance renders the DCC gate closure protective measure uncertain. Thus, NMFS cannot rely on that protective measure in making its conclusions.

2. Shasta Cold Water Pool Management

NMFS approves a tiered system for managing Shasta cold water such that each water year will be designated one of four different “tiers.” NMFS BiOp at 234. “The initial determination of operational tier for an upcoming summer is based on the available storage on May 1 and temperature modeling of conditions at that time.” NMFS BiOp at 233. “Based on the 82-year historical hydrologic sample set⁴ used in the CalSim II modeling of the proposed action, Shasta storage conditions” would result in:

- Tier 1 operations in 68 percent of years
- Tier 2 operations in 17 percent of years
- Tier 3 operations in 7 percent of years
- Tier 4 operations in 7 percent of years

NMFS BiOp at 235. How often each Tier type is selected is critical because Tier 3 operations are projected to result in a 28 to 34 percent egg-to-fry mortality rate, while Tier 4 would cause temperature-dependent egg-to-fry mortality of 79 to 81 percent. NMFS BiOp at 276, Table 25. In the July 1, 2019 Draft BiOp, NMFS suggested a Reasonable and Prudent Alternative (RPA) that would have required Reclamation to operate to Tier 1 in at least 2 out of 3 years, Tier 2 or 3 in no more than 1 out of every 4 years, and Tier 4 operations no more than 1 out of every 10 years. NMFS Jeopardy BiOp, July 1, 2019, at 945. This required distribution of Tier years is not included in the final NMFS BiOp. Instead, as described below, the final NMFS BiOp adopts a tier system that offers essentially no protection to the fish.

The tier selection is purportedly designed such that Reclamation’s operations should not cause Shasta cold water pool management to shift into a warmer tier. NMFS BiOp at 233. The tier system, however, eliminates reasonable and prudent protective measures that NMFS previously concluded are necessary to avoid jeopardy, and even the measures that it does require are uncertain. Absent protective measures that are reasonably certain to occur, the biological opinion violates the ESA.

⁴ Additionally, the modeling’s focus on historical data rather than incorporating likely changes in year-type frequency as a result of climate change result in further uncertainty.

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 20

a. The BiOp Eliminates Carryover Storage Targets and No Longer Requires NMFS Risk-Management Consultation on the Annual Temperature Plan

In 2009, NMFS developed a reasonable and prudent alternative (RPA) for Shasta Operations that targeted end of September (EOS) storage behind Shasta at 2.4 million acre feet (MAF) of water. 2009 NMFS Jeopardy BiOp, at 593. This target was chosen to ensure a sufficient cold-water pool to provide suitable temperatures for winter-run Chinook salmon spawning in most years, without sacrificing the potential for cold-water management in a subsequent year. *Id.* at 591. In the event that the 2.4 MAF EOS target was not met, NMFS required modified release schedules, including limiting releases to 3,250 cfs in very low water years. *Id.* at 595. Another RPA in the 2009 BiOp required Reclamation to develop a final Temperature Management Plan for releases from May 15 to October 31. *Id.* at 601. The development of this plan required Reclamation to submit multiple risk-management options to NMFS for review and comment before the plan was adopted. *Id.* at 602.

The 2019 BiOp approves the elimination of the quantified EOS carryover storage targets and the required risk-management consultation with NMFS on the annual plan. Reclamation's description of the proposed action includes that the Bureau will not operate to specific end-of-water-year storage targets. U.S. Bureau of Reclamation, *Proposed Action*, at 4-16 (Oct. 21, 2019). And summer cold water management will be based on the tier system described above. *Id.* at 4-30–33. Reclamation will still develop an annual temperature management plan which will identify the “forecasted” tier for that year's summer temperature management. *Id.* at 4-35. NMFS involvement, however, is described as “provid[ing] technical assistance through the” Sacramento River Temperature Task Group. If monitored water temperatures exceed the target temperature identified in the annual plan, Reclamation will “notify NMFS of what actions, if any, are being taken to address the exceedances.” *Id.* at 4-35.

The dramatic mortality events of 2014 and 2015 for winter-run Chinook salmon (4% and 3% egg-to-fry survival, respectively) underscore the importance of Shasta cold-water management. NMFS BiOp at 69. Yet, instead of strengthening the protective measures of the 2009 RPA's, the Proposed Action proposes, and NMFS approves, a cold water management plan that does not have defined carryover storage targets and allows Reclamation to avoid NMFS oversight in drafting the annual temperature management plan. These species protections therefore are not reasonably certain to occur and NMFS should not have been relied on them in the BiOp.

b. Midyear Tier Changes Are Permitted

While the tier system is designed not to allow for shifts between tiers within a single year, Reclamation can shift into a warmer tier “in the event of responding to emergency and/or unforeseen conditions.” NMFS BiOp at 233. NMFS does not explain how this exception can be reconciled with the requirement that species protections be reasonably certain to occur. Instead,

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 21

NMFS acknowledges that the projection of Tier 4 (the warmest) operations occurring in only 7 percent of years may not be an accurate characterization of tier probability, and that operations *can change* from one tier to a higher tier, which “introduces uncertainty into the determination of effect of summer cold water pool management.” NMFS BiOp at 243. In the revised Proposed Action, Reclamation concludes that an independent panel will be chartered in the event that Reclamation switches tiers mid-year, but as NMFS notes, post-hoc evaluations do not result in real-time protection to the species. NMFS BiOp at 257.

c. Intervention Measures Are Not Described

Further, the interventional protection measures in the tiers are not mandatory. Although the tier system sets temperature targets that depend on the tier year type,⁵ NMFS notes that a lifestage-specific target is not explicitly defined, meaning that the Proposed Action “has a notable uncertainty in its effect to species.” NMFS BiOp at 242-43. And no such target temperature is described for Tier 4 years; instead, Reclamation will provide a temperature plan to the Sacramento River Temperature Task Group for review, and NMFS assumes that this review would be the means by which NMFS would provide technical assistance to the development of this plan. NMFS BiOp at 243. The HEC-5Q modeling of the Proposed Action predicts that during Tier 4 years, the critical 53.5°F temperature is exceeded 86 percent of days. NMFS BiOp at 252. This exposure corresponds to a temperature-dependent mortality of 79 to 81 percent. *Id.*

The NMFS BiOp also considers non-temperature-related protective measures that may be implemented in Tier 3 and 4 years. For example, in a Tier 3 year, if temperatures are projected to lead to high mortality, NMFS expects that intervention measures will be implemented. But these intervention measures, along with those to be implemented in a Tier 4 year, are still to be developed through collaboration. NMFS BiOp at 14, 249. The intervention measures reportedly under consideration include: increased production at Livingston Stone National Fish Hatchery, rescues of adult salmon, and juvenile trap and haul operations. NMFS BiOp at 271-74. But NMFS notes that not enough certainty about increased hatchery production is provided for an assessment of its effects to be included, and NMFS does not provide an ESA exemption for take associated with either adult rescues or juvenile trap and haul, so those interventions could not proceed without further consultation. NMFS BiOp at 273-74.

⁵ For example, in Tier 3 years, temperatures will be targeted between 53.5°F and 56°F.

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 22

3. Cumulative Loss Thresholds

The NMFS BiOp provides cumulative and single-year loss thresholds to trigger protective management of Old and Middle River flows. The cumulative loss thresholds are based on cumulative historical loss from 2010 through 2018.⁶ NMFS BiOp at 534.

After the cumulative loss thresholds are calculated, the Proposed Action does not require definitive action to address unexpected losses. For example, if 50 percent of the calculated cumulative loss threshold is exceeded before 2024, the Proposed Action requires an independent panel to review the actions, but the panel can only issue recommendations. NMFS BiOp at 534. Meanwhile, the Proposed Action only requires Reclamation to seek the technical assistance of NMFS after the cumulative loss threshold has already been exceeded, and it is not clear whether NMFS may then impose new requirements on Reclamation. *Id.*

For single-year loss thresholds, the Proposed Action directs Old and Middle River Flows to be reduced if certain loss limits are exceeded, but these reductions are subject to the caveat that the restrictions can be lifted, or not implemented at all, if “Reclamation and DWR determine that Old and Middle River restrictions are not required to benefit fish movement because a risk assessment shows that the risk is no longer present based on real-time information.” NMFS BiOp at 534. This risk assessment involves Reclamation and DWR sharing their technical analysis with NMFS, but ultimately NMFS does not have authority to modify pumping levels.

The structure of these proposed protective measures concerning Old and Middle River flows leads NMFS to conclude that it “is uncertain how exactly exports and Old and Middle River flows under the final proposed action will change in a given month and year type.” NMFS BiOp at 542. Old and Middle River flows are a critical factor in the entrainment risk faced by ESA-listed salmonid populations. Because of this identified uncertainty, NMFS could not and did not consider all relevant factors in making its no-jeopardy determination.

Instead, NMFS does an analysis based on assumptions and concludes that “the multiple process steps in the final proposed action provide *some assurance* that species risks will be conservatively managed.” NMFS BiOp at 543 (emphasis added). These multiple process steps replace defined “species-specific off-ramps” that were originally included in the Proposed

⁶ The proposed loss thresholds for triggering protective management of Old and Middle River flows highlights NMFS’s failure to acknowledge the relevant factor of the listed species’ decline. The Proposed Action’s performance objectives “will set a trajectory such that this cumulative loss threshold (measured as the 2010–2018 average cumulative loss multiplied by 10 years) will not be exceeded by 2030.” *Id.* This means that the Proposed Action’s loss thresholds are calculated based on the time period covered by the Current Operating Scenario, a time period during which the listed salmon populations have continued to face population declines and increasing risk of extinction.

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 23

Action. NMFS BiOp at 546-48, Table 105. These replacements make the protective measures less certain, despite the fact that NMFS found that the Proposed Action, as originally proposed with defined species-specific off-ramps, would lead to substantially higher mean loss at the export facilities compared to the Current Operating Scenario in all water-year types for spring-run Chinook salmon. NMFS BiOp at 501.

Protective measures for salmon, especially winter-run Chinook salmon, will be most critical to the population's continued viability during the challenging water-year types. Yet, it is during these drought years that the Proposed Action's proposed intervention measures are the most nebulous and uncertain to occur. The NMFS BiOp's reliance on these uncertain protective measures in reaching a no-jeopardy conclusion is legally unsupportable.

B. USFWS BiOp

The USFWS BiOp likewise impermissibly relies on operational criteria and conservation measures that are not reasonably certain to occur and/or post-date the project start date with no discussion of interim effects, as discussed below.

1. Off-Ramps and Uncertainty in OMR Management

a. Storm-Related Flexibility

The Proposed Action relies on OMR Management to protect adult, larval, and juvenile Delta smelt from entrainment at the pumping facilities. OMR Management means limiting exports to maintain an OMR index of no more negative than a 14-day moving average of -5,000 cfs in the winter and spring. USFWS BiOp at 41. But the Proposed Action includes a major off-ramp that would allow significantly increased exports during "storm-related events," when exports could increase to pumping capacity of 14,900 cfs. *Id.* at 47-48. According to the USFWS BiOp, a "storm related event" occurs when "precipitation falls in the Central Valley and Delta watersheds and Reclamation and DWR determine that the Delta outflow index indicates a higher level of flow available for diversion." *Id.* at 48. "Storm-related events" will not be further defined until the first year after the proposed action is implemented. *Id.* In the meantime, the BiOp acknowledges that exports up to 14,900 cfs could result in a "range of OMR values." *Id.* The BiOp does not attempt to predict what the OMR values would be because this action was not modeled; instead, the modeling described in the BiOp assumed a no more negative OMR than -6000 cfs and assumed a relatively low frequency for these events. *Id.* at 141, 143. As a result, the duration and trigger criteria for this storm-related exemption from the OMR requirements are

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 24

essentially undefined. *Id.* at 47-48. It is therefore unknown how operations would actually be managed during “storm-related events,” and how those operations would affect the Delta smelt.⁷

The BiOp does limit the use of Storm-Related OMR flexibility in some circumstances, including during periods when Additional OMR Management Restrictions are triggered, such as the Turbidity Bridge Avoidance Action, the Larval and Juvenile Delta Smelt action, and salmonid loss thresholds. But, as discussed below, none of these measures are reasonably certain to occur and, thus, the USFWS BiOp is legally inadequate for relying on them.⁸

b. Turbidity Bridge Avoidance Action

The Turbidity Bridge Avoidance action may occur after First Flush or February 1, whichever comes first, until April 1 or when a “ripe or spent” female Delta smelt is detected, whichever comes first.⁹ USFWS BiOp at 41. This action requires Reclamation and DWR to manage exports to achieve an OMR no more negative than -2000 cfs if the daily average turbidity in Old River at Bacon Island (OBI) exceeds 12 NTU, until the daily average turbidity drops below 12 NTU. USFWS BiOp at 42. This action is intended to minimize entrainment of adult Delta smelt.

The Turbidity Bridge Avoidance action has two significant off-ramps. First, even when conditions appear to trigger the action, Reclamation may determine that action is not warranted. Specifically, the BiOp allows Reclamation and DWR to “consider and review data from other locations” to “avoid triggering an OMR flow action during a sensor error or a localized turbidity spike that might be caused by local flows or a wind-driven event.” *Id.* at 42. The BiOp does not identify the “other locations” from which data may be obtained, explain how data from these unidentified locations might inform the decision-making process, explain how a decision on whether to implement the action would be reached, or provide scientific support for the conclusions that would be reached and implemented based on that data. After determining that the protective action is not warranted, the BiOp authorizes Reclamation and DWR to take no further action beyond notifying the USFWS of their decision within 24 hours. The BiOp does not require USFWS to do anything with that information. *Id.*

⁷ The BiOp also does not discuss or account for the probability that Reclamation would seek waivers of OMR Management in critically dry years, which similarly impedes analysis of operations as they would actually occur.

⁸ The operating criteria for OMR Management are the same for the USFWS BiOp and the NMFS BiOp. Most of the deficiencies described here apply to both opinions.

⁹ There is no scientific consensus on the anatomical definition of “ripe” for female Delta smelt. And “ripe” females have not yet spawned. Precluding the action before spawning has occurred could substantially limit its protectiveness.

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 25

Second, and more significantly, after accepting the trigger and initiating the action, the BiOp allows Reclamation to abandon this protective action if “5 consecutive days of OMR less negative than -2000 cfs do not reduce turbidity at Bacon Island below a daily average 12 NTU in a given month. *Id.* at 42. At that point, Reclamation may decide that the additional OMR restrictions are “infeasible, and will instead implement an OMR target that is deemed protective, based on turbidity, adult delta smelt distribution and salvage, but not more negative than -5000 cfs.” *Id.* The BiOp does not indicate what a new “protective” OMR target might be or how such a decision would be reached, nor does it state how turbidity, smelt distribution, and salvage would be identified, evaluated, or used to identify a protective OMR flow. *Id.* As a practical matter, if a less negative OMR did not quickly decrease the turbidity level, Reclamation could simply decide to cease protective operations altogether.

Because of these two off-ramps, it is unclear how frequently or for how long the Turbidity Bridge Avoidance action would actually be implemented. As described in the USFWS BiOp, this protective action is not reasonably certain to occur.

c. Larval and Juvenile Smelt Action

The second protective action under the Additional OMR Restrictions is the Larval and Juvenile Smelt action, which proposes to use life-cycle modeling and real-time data to manage the annual entrainment levels of larval and juvenile smelt. USFWS BiOp at 42. But this action has multiple deficiencies. First, the USFWS has not yet completed development of the life cycle models on which this action relies. Without a life cycle model, this action does not yet exist. Second, the BiOp does not set a target recruitment level that would inform pumping restrictions because that level has not yet been identified. *Id.* Third, the BiOp does not provide sufficient detail of how the life cycle models would be “operationalized” with real-time monitoring to protect the fish, particularly given the difficulty in using observation to identify the “spatial distribution” of smelt. *Id.* at 43. Finally, the Proposed Action includes a significant off-ramp for this action: “In the event the life cycle models cannot be operationalized in a manner that can be used to inform real-time operations then Reclamation, DWR, and the Service will coordinate to develop an alternative plan to provide operational actions protective of this life stage.” *Id.* The BiOp offers no information on what such an “alternative plan” might look like, nor does it include interim protective measures or propose to cease operating under the BiOp pending completion of such plan.

d. Salmonid Loss Thresholds

The third protective action in OMR Management consists of cumulative and annual loss thresholds for threatened or endangered salmonid species. USFWS BiOp at 43-44. The BiOp fails to demonstrate that this action will provide a specific and tangible benefit to Delta smelt. Instead, the BiOp assumes that the Delta smelt might see some incidental benefit if the salmonid loss threshold is triggered—leading to the operation of OMR to a less negative flow—but the action does not purport to monitor or respond to impacts on the Delta smelt. The BiOp does not

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 26

describe how often the loss thresholds might be triggered or discuss the implications for Delta smelt if the thresholds are not triggered.

e. Off-Ramp from the Application of Any Additional OMR Restrictions

Even accepting the questionable premise that the Additional OMR Restrictions would be protective for Delta smelt, the BiOp contains a significant off-ramp from the application of any restriction: “When real-time monitoring demonstrates that criteria in ‘Additional Real-Time OMR Restrictions and Performance Objectives’ are not supported, then Reclamation and DWR may confer with the Directors of NMFS, the Service, and CDFW if they desire to operate to a more negative OMR than what is specified Upon mutual agreement, the Directors of NMFS and the Service may authorize Reclamation and DWR to operate to a more negative OMR than the Additional Real-Time OMR Restrictions, but no more negative than -5000 cfs.” USFWS BiOp at 49.

In sum, the purported protective measures as presented in the biological opinions are not reasonably certain to occur because of significant off-ramps and ambiguity in OMR management.

2. Summer-Fall Habitat Action—Fall X2 Management

As part of its proposed Summer-Fall Habitat Action, the BiOp sets a Fall X2 standard in Above Normal and Wet years of 80 km in September and October. However, the new BiOp allows for modification of the 80 km requirement “[i]f the measures above (or others developed through collaborative science processes) result in benefits that are determined to provide similar or better protection than the 80 km X2 salinity management action.” USFWS BiOp at 52. Furthermore, the BiOp only mandates that the 80 km requirement be met by reduction in project exports from the South Delta. If the 80 km requirement cannot be met by export reductions and will require releases of water from upstream storage, then “Reclamation . . . will meet with NMFS and the Service to discuss alternate potential approaches that improve habitat conditions.” *Id.* at 53. These and other provisions in the BiOp demonstrate that the Proposed Action’s fishery protection measures are not reasonably certain to occur.

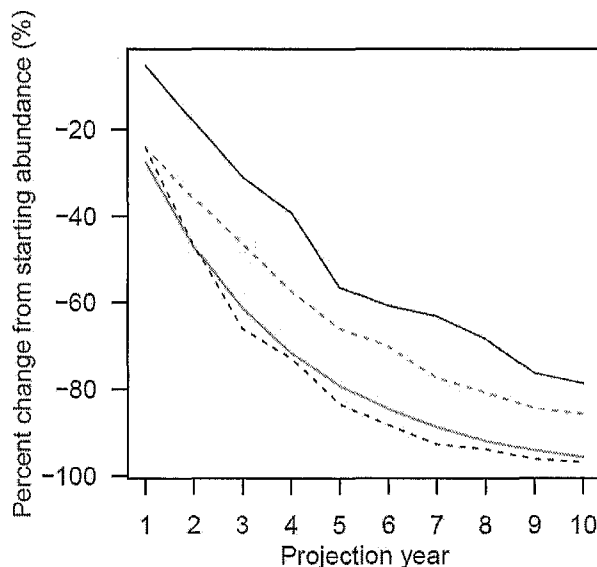
3. Delta Smelt Population Supplementation

In reaching a no-jeopardy conclusion, the USFWS BiOp relies, in part, on Reclamation’s proposal to fund a two-phase process that would lead to annual supplementation of the wild Delta smelt population with propagated fish. First, Reclamation proposes to begin supplementing the wild population of Delta smelt with captive fish within 3-5 years from issuance of the biological opinion. USFWS BiOp at 57, 171. Second, Reclamation proposes to begin operating a “Delta Fish Species Conservation Hatchery” by 2030. *Id.* at 172.

Secretary David Bernhardt
 Secretary Wilbur Ross
 Commissioner Brenda Burman
 February 20, 2020
 Page 27

But USFWS fails to address the 3- to 5-year interim period during which no supplementation of the Delta smelt population occurs. A biological opinion must consider near-term habitat loss to populations with short life cycles. *Pac. Coast Fed'n*, 426 F.3d at 1094. USFWS's analysis is therefore impermissibly unclear as to whether the supplementation efforts will be "too little, too late" because of the near-term effects of increased pumping during the interim period.

Likewise, the hatchery plan fails to account for near-term impacts because it will not be completed until 2030. Relying on species decline data summarized in the graph below, the June 2019 draft of the USFWS BiOp concluded that the Delta smelt will be at or near extinction by 2025, five years before the estimated completion date for the proposed Delta smelt fish hatchery. The final biological opinion deleted these passages, but retained data such as Figure 5-14 that predict the material decline of the species. USFWS BiOp at 91, Figure 5-14. However, if it is reasonably likely that the species will become extinct by 2025, then the utility of the proposed smelt hatchery is in considerable doubt.



Further, it is unclear whether the hatchery, even if it does come online before the Delta smelt become extinct, will be effective. As currently designed, the hatchery plan requires the capture of 100 wild smelt each year, a process that has become "increasingly difficult" as the smelt population has declined. CDFW ROC Comments at 13. Compounding the problem, hatchery fish may have difficulty breeding and surviving in the wild. *Id.* Additionally, permitting for hatcheries is very intensive, due to the number of regulatory restrictions. For these reasons, the hatchery is not reasonably certain to occur.

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 28

4. Habitat Restoration

The 2008 USFWS BiOp required Reclamation to complete some 8,000 acres of intertidal and associated subtidal habitat restoration in the Delta and Suisun Marsh within 10 years. The 2019 USFWS BiOp now says this effort will be completed by 2030.

The new USFWS BiOp relies on habitat restoration to offset the harm caused by increased exports: “This habitat restoration is a reasonable means of minimizing the adverse effects of the loss of individuals, on the species as a whole, and may benefit the recovery of delta smelt.” USFWS BiOp at 220. It “would be expected to improve the availability of food for delta smelt for all life stages.” *Id.* at 180. However, there is no discussion of whether the habitat efforts will be able to offset the harmful effects of increased pumping in the interim 10-year period.

Despite this significant analytical gap, USFWS relies on the Proposed Action’s habitat restoration plan in reaching its no-jeopardy conclusion. *Id.* at 220-21. This reliance is inappropriate because USFWS fails to address interim effects until the habitat restoration is complete.

III. THE 2019 BIOLOGICAL OPINIONS FAIL TO ANALYZE KEY COMPONENTS OF THE PROPOSED ACTION.

Both biological opinions fail to analyze a key proposal to raise the Shasta Dam, in contravention of the requirement that a biological opinion assess all aspects of a project. *See Conner v. Burford*, 848 F.2d 1441, 1457 (9th Cir. 1988). The NMFS BiOp specifically states that it “cannot further evaluate the Shasta Dam raise in this opinion” as a result of the absence of operational scenarios in the BA that include the dam raise. NMFS BiOp at 203 n.8. The USFWS BiOp notes that the “effects of the construction of this dam raise are being addressed under a separate section 7 consultation.” USFWS BiOp at 404.

Despite this lack of analysis, the biological opinions potentially provide incidental take coverage not only for current dam operations, but also for operations after the dam raise has been completed. Specifically, after construction is complete, the USFWS BiOp allows Reclamation to modify its operations to account for the increased reservoir storage, even though the impacts of such modifications were not considered in the BiOp. *Id.* at 404-05.

The assumption is that Reclamation’s compliance with the proposed operational criteria will be adequate, even though no detailed analysis of the effect of the enlarged Shasta project is set forth in the BiOp. This violates the “whole project” review requirement set forth in *Conner v. Burford*.

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 29

IV. THE 2019 BIOLOGICAL OPINIONS FAIL TO PROPERLY ANALYZE THE RECOVERY OF LISTED SPECIES.

As discussed above, Section 7(a)(2) of the ESA requires that Federal agencies ensure that any action they authorize, fund, or carry out is not likely to jeopardize the continued existence of an ESA-listed species. 16 U.S.C. § 1536(a)(2). “Jeopardize the continued existence of” means to engage in an action that reasonably would be expected, directly or indirectly, *to reduce appreciably the likelihood* of both the survival and *recovery* of a listed species in the wild by reducing the reproduction, numbers, or distribution of that species. 50 C.F.R. § 402.02 (emphasis added).

Survival and recovery are “intertwined needs that must both be considered in a jeopardy analysis, and an agency’s decision to de-emphasize recovery is entitled to “less deference than we might usually give.” *Nat’l Wildlife Fed’n v. Nat’l Marine Fisheries Serv.*, 524 F.3d 917, 932-33 (9th Cir. 2008). A proposed measure that is only “slightly less harmful to the listed species than previous operations” or that proposes “incremental improvements” in lieu of survival and recovery does not comply with the ESA. *Aluminum Co. of Am. v. Adm’r, Bonneville Power Admin.*, 175 F.3d 1156, 1162 n.6 (9th Cir. 1999). “Because a species can often cling to survival even when recovery is far out of reach,” recovery means more than simply avoiding extinction. *Nat’l Wildlife Fed’n*, 524 F.3d at 931; *see also NRDC v. Rodgers*, 381 F. Supp. 2d 1212, 1229 n.30 (E.D. Cal. 2005) (“‘recovery’ means [Endangered Species Act] protections are ‘no longer necessary’”) (quoting 16 U.S.C. § 1532(3)). For species on the brink of extinction, the agency must determine “when the tipping point precluding recovery . . . is likely to be reached,” and then determine whether it will be reached “as a result” of the proposed action. *Wild Fish Conservancy v. Salazar*, 628 F.3d 513, 527 (9th Cir. 2010).

The 2019 Biological Opinions do not undertake the necessary analysis.

A. NMFS BiOp

Rather than analyze whether the Proposed Action would tip the listed species into extinction, the NMFS BiOp simply identifies certain “recovery action goals” from a salmon recovery plan it released in 2014 and states that the Proposed Action is consistent with, or does not preclude, those goals. *See* Recovery Plan for the Evolutionarily Significant Units of Sacramento River Winter-Run Chinook Salmon and Central Valley Spring-Run Chinook Salmon and the Distinct Population Segment of California Central Valley Steelhead; NMFS BiOp at 755-56. Based on this limited discussion, the BiOp concludes that the Proposed Action “is not likely to appreciably reduce the likelihood of both the survival and recovery of the Sacramento River winter-run Chinook salmon ESU.” *Id.* at 756. But a bullet-point list of existing recovery goals, without evidence of actual implementation of measures to improve the species’ health, does not substitute for an analysis of whether the Proposed Action will or will not tip the species into extinction. The ESA requires more.

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 30

B. USFWS BiOp

The USFWS BiOp's recovery analysis is also flawed. The BiOp cites the same uncertain mitigation measures and operations management that are deficient for the reasons discussed above in analyzing the effects of the Proposed Action on the Delta smelt's likelihood of recovery. The BiOp then reaches a conclusion that applies the incorrect standard, stating, "Therefore, the [Proposed Action] is not likely to preclude recovery of the delta smelt." USFWS BiOp at 204, 220. But the regulations require the agency to consider whether the Proposed Action will "reduce appreciably the likelihood of ... recovery of a listed species. *See* 50 C.F.R. § 402.02. Because "not likely to preclude" is a far lower standard than "reduce appreciably the likelihood," USFWS has not undertaken the required recovery analysis.¹⁰

V. THE 2019 BIOLOGICAL OPINIONS FAIL TO PROVIDE SUFFICIENT PARAMETERS FOR INCIDENTAL TAKE STATEMENTS.

An incidental take statement must specify the impact of the incidental taking on the species. 50 C.F.R. § 402.14(i)(1)(i). The statement may use a surrogate to "express the amount or extent of anticipated take," but must describe the causal link between the surrogate and take of the species and explain why a surrogate is necessary. *Id.* The statement must also "set[] a clear standard for determining when the level of anticipated take has been exceeded." *Id.* If an exceedance occurs, the agency must reinitiate consultation immediately. *Id.* § 402.14(i)(4).

A. NMFS BiOp

The incidental take statement in the NMFS BiOp violates the ESA because it does not set meaningful triggers for reinitiation of consultation. For example, the winter-run Chinook salmon could experience three consecutive years of zero egg-to-fry survival before reinitiation would be required under the BiOp. For a species on the brink of extirpation, this is potentially catastrophic. Additionally, the statement permits an increased incidental take limit for steelhead, despite continuing population declines.

B. USFWS BiOp

Smelt incidental take limits in the previous BiOps had been measured by salvage at the pumps compared to a take limit generated by a formula based on the Fall Midwater Trawl Survey. This has created a very low take limit in recent years, so the BiOp uses surrogates instead. For instance, "the level of turbidity present in the South Delta" is a surrogate for the incidental take of adult Delta smelt. USFWS BiOp at 395.

¹⁰ Both the NMFS BiOp and the USFWS BiOp also fail to explain how evolving climate change projections will be incorporated into the analysis to improve the accuracy of each BiOp's effects analysis.

Secretary David Bernhardt
Secretary Wilbur Ross
Commissioner Brenda Burman
February 20, 2020
Page 31

USFWS also uses diversion rates as the incidental take limit surrogate for Rock Slough (*id.* at 396) and North Bay Aqueduct (*id.* at 397), and uses the surrogate of approach velocity at Roaring River and Morrow Island Distribution systems (*id.*). The appropriateness of using diversion rates and approach velocities as incidental-take-limit surrogates is unclear and unjustified in the BiOp. If turbidity, diversion rates, and approach velocities are not adequate surrogates, there will essentially be no incidental take limit for adult Delta smelt in the BiOp.

THE RECORD OF DECISION

The 2019 Biological Opinions are arbitrary and capricious and violate the ESA. Reclamation's Record of Decision adopting the 2019 Biological Opinions is itself arbitrary and capricious, and does not constitute compliance by Reclamation with its "independent duty" to obey the ESA. 16 U.S.C. § 1536(a)(2); *see also Ctr. for Biological Diversity v. U.S. Bureau of Land Mgmt.*, 698 F.3d 1101, 1128 (9th Cir. 2012). Compliance with the flawed incidental take permit would not protect Reclamation from the prohibition against "taking" any endangered fish or wildlife species. *See* 16 U.S.C. § 1538 (a)(1)(B), (G); *see also Arizona Cattle Growers' Ass'n v. U.S. Fish & Wildlife*, 273 F.3d 1229, 1239 (9th Cir. 2001); *Ramsey v. Kantor*, 96 F.3d 434, 441 (9th Cir. 1996).

CONCLUSION

For the reasons stated above, if Reclamation operates the Central Valley Project in reliance on the legally deficient 2019 Biological Opinions, the California Natural Resources and Environmental Protection Agencies and the California Attorney General intend to file litigation to compel Reclamation to comply with the Endangered Species Act. 16 U.S.C. § 1540(g)(1)-(2)(A).

Sincerely,



Daniel Fuchs
Deputy Attorney General

For XAVIER BECERRA
Attorney General

CERTIFICATE OF SERVICE

Case Name: **Resources Agency et al v. Ross,
et al (2019 Smelt/Salmon
BiOps)**

No. 1:20-cv-00426-DAD-SKO

I hereby certify that on April 21, 2020, I electronically filed the following document(s) with the Clerk of the Court in 1:20-cv-00426-DAD-SKO by using the CM/ECF system:

FIRST AMENDED COMPLAINT FOR DECLARATORY AND INJUNCTIVE RELIEF

Participants in the case who are registered CM/ECF users will be served by the CM/ECF system.

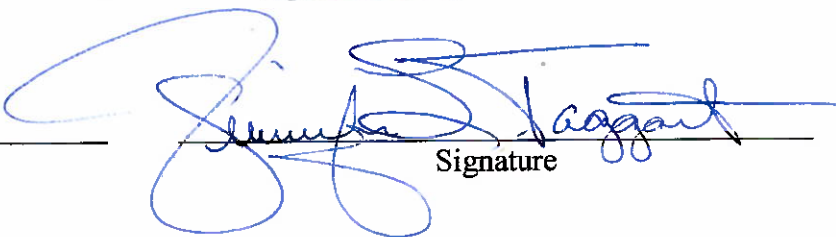
I am employed in the Office of the Attorney General, located at 1300 I Street, Sacramento, CA 95814, which is the office of a member of the California State Bar at which member's direction this service is made. I am 18 years of age or older and not a party to this matter. I am familiar with the business practice at the Office of the Attorney General for collection and processing of correspondence for mailing with the United States Postal Service. In accordance with that practice, correspondence placed in the internal mail collection system at the Office of the Attorney General is deposited with the United States Postal Service with postage thereon fully prepaid that same day in the ordinary course of business.

I further certify that the participants in **Case No. 1:20-cv-00426-DAD-SKO** who are not registered CM/ECF users. On April 21, 2020, I have caused to be mailed in the Office of the Attorney General's internal mail system, the foregoing document(s) by First-Class Mail, postage prepaid, or have dispatched it to a third party commercial carrier for delivery within three (3) calendar days to the following non-CM/ECF participants:

-
- **THERE ARE NONE.**

I declare under penalty of perjury under the laws of the State of California the foregoing is true and correct and that this declaration was executed on April 21, 2020, at Sacramento, California.

Jennifer L. Taggart
Declarant



Signature