#### **RESOLUTION NO. 24-13**

#### A RESOLUTION OF THE BOARD OF DIRECTORS OF THE PALMDALE WATER DISTRICT:

(1) CONSIDERING THE FINAL ENVIRONMENTAL IMPACT REPORT FOR THE DELTA CONVEYANCE PROJECT (STATE CLEARINGHOUSE NO. 2020010227); (2) MAKING RESPONSIBLE AGENCY FINDINGS FOR THE DELTA CONVEYANCE PROJECT PURSUANT TO THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) AND STATE CEQA GUIDELINES SECTION 15096; (3) ADOPTING CEQA FINDINGS OF FACT FOR THE DELTA CONVEYANCE PROJECT UNDER STATE CEQA GUIDELINES SECTION 15091; (4) ADOPTING A STATEMENT OF OVERRIDING CONSIDERATIONS UNDER STATE CEQA GUIDELINES SECTION 15093 FOR PRE-CONSTRUCTION WORK RELATED TO THE DELTA CONVEYANCE PROJECT; AND (5) AUTHORIZING THE GENERAL MANAGER TO EXECUTE AN AMENDMENT TO PALMDALE WATER DISTRICT'S AGREEMENT FOR THE ADVANCE OR CONTRIBUTION OF MONEY TO THE DEPARTMENT OF WATER RESOURCES TO COMMIT FUNDS FOR PALMDALE WATER DISTRICT SHARE OF THE DELTA CONVEYANCE PROJECT PLANNING AND PRE-CONSTRUCTION COSTS FOR CALENDAR YEARS 2026-2027

WHEREAS, on April 29, 2019, Governor Gavin Newsom signed Executive Order N-10-19, directing the California Natural Resources Agency, California Environmental Protection Agency, and California Department of Food and Agriculture to develop a comprehensive strategy to build a climate-resilient water system and ensure healthy waterways through the twenty-first century; and

WHEREAS, after a public input period, on July 28, 2020, Governor Newsom released the California Water Resilience Portfolio, which identified a suite of complementary actions to ensure safe and resilient water supplies, flood protection, and healthy waterways for the state's communities, economy, and environment; among these actions was a project (the "Delta Conveyance Project") entailing new diversion and conveyance facilities in the Sacramento-San Joaquin Delta ("Delta") to safeguard the State Water Project ("SWP"); and

WHEREAS, the primary purpose of the SWP is to convey water to local and regional water suppliers across California that, in turn, supply end users engaged in the beneficial uses of that water; to this end, SWP has long-term contracts to supply water to 29 public water agencies, known as State Water Contractors, that distribute that water to farms, homes, and industry; and

WHEREAS, the Palmdale Water District is one of the State Water Contractors, and it possesses a long-term water supply contract with the Department of Water Resources ("**DWR**"), which is the owner and operator of the SWP, which allows for the annual importation of water via the SWP; and

WHEREAS, the Palmdale Water District allocation of imported SWP water fluctuates annually based on a variety of factors, including Delta conditions, reservoir levels, rainfall, snowpack, and pumping capacity in the Delta, as well as operational limits for fish and wildlife protection, water quality, and environmental and legal restrictions; and

WHEREAS, the infrastructure that enables the conveyance, or movement, of water supply from the Delta to the Palmdale Water District is a great consequence to the Palmdale Water District; and

WHEREAS, factors such as the continuing subsidence of lands, risk of seismic activity and levees within the Delta, sea level rise, precipitation change, warmer temperatures, and wider variations in the hydrological conditions associated with climate change threaten the reliability of the current SWP water conveyance system; and

WHEREAS, the Delta Conveyance Project involves the construction and future operation of new water intake facilities on the Sacramento River in the north Delta and a single main tunnel to divert and move water entering the north Delta from the Sacramento Valley watershed to existing SWP facilities in the south Delta, which would result in a dual conveyance system in the Delta; and

WHEREAS, DWR's fundamental purpose in proposing to develop the Delta Conveyance Project is to restore and protect the reliability of SWP water deliveries to the State Water Contractors, including the Palmdale Water District; and

WHEREAS, in January 2020, DWR, as lead agency for the Delta Conveyance Project under the California Environmental Quality Act ("CEQA"), filed and circulated a Notice of Preparation of an Environmental Impact Report ("EIR") for the Delta Conveyance Project;

WHEREAS, in July 2022, DWR circulated a Draft EIR (State Clearinghouse No. 2020010227) for the Delta Conveyance Project for a 92-day review period, beginning on July 27, 2022 and closing on October 27, 2022; and

WHEREAS, the EIR analyzed the potential environmental impacts of data collection and field work investigations, including ground-disturbing geotechnical work, water quality and hydrogeologic investigations, agronomic testing, the installation of monitoring equipment, construction test projects, pre-construction design work, and engineering work (collectively, "**Pre-Construction Work**") that would occur after certification of the EIR and that would guide the ultimate design, appropriate construction methods, and monitoring programs for the Delta Conveyance Project; and

WHEREAS, the EIR concluded that the Delta Conveyance Project, including the Pre-Construction Work, would have less than significant impacts without the implementation of mitigation as to some resources; less than significant impacts with the implementation of mitigation measures identified in a Mitigation Monitoring and Reporting Program ("MMRP") as to other resources; and significant and unavoidable impacts as to Agricultural Resources, Aesthetics, Cultural Resources, Transportation, Air Quality, Noise, Paleontological Resources, and Tribal Cultural Resources; and

WHEREAS, on December 21, 2023, DWR certified the Final EIR for the Delta Conveyance Project, adopted the MMRP to require DWR's implementation of the mitigation measures identified therein, adopted CEQA Findings of Fact pursuant to State CEQA Guidelines section 15091, adopted a Statement of Overriding Considerations relating to the Delta Conveyance Project's significant and unavoidable environmental impacts pursuant to State CEQA Guidelines section 15093, and approved the Delta Conveyance Project; and WHEREAS, the Final EIR certified by DWR and related CEQA documents can be found at DWR's website, located at:

https://www.deltaconveyanceproject.com/planning-processes/california-environmental-qualityact/final-eir/final-eir-document

A copy of these documents has also been retained in the Palmdale Water District's files and has been made available to, and has been reviewed by, the Board of Directors; and

WHEREAS, on November 9, 2020, the Palmdale Water District previously entered an Agreement for the Advance or Contribution of Money to DWR for preliminary planning and design costs related to a potential Delta Conveyance Project (the "Agreement"); and

WHEREAS, the Palmdale Water District seeks to execute an amendment ("Amendment") to the Agreement to provide funding for Pre-Construction Work for the Calendar Years 2026-2027 in an amount not to exceed \$3,180,000; and

WHEREAS, the Palmdale Water District only seeks to provide funding for Pre-Construction Work (as defined above), and the Palmdale Water District is not approving or committing to the broader Delta Conveyance Project at this time; and

WHEREAS, the Palmdale Water District is a responsible agency for the Delta Conveyance Project under CEQA, and pursuant to State CEQA Guidelines section 15096, Palmdale Water District hereby intends to adopt CEQA Findings of Fact under State CEQA Guidelines section 15091 and a Statement of Overriding Considerations under State CEQA Guidelines section 15093; and

WHEREAS, the Palmdale Water District has heard, been presented with, reviewed, and considered all of the information and data presented to it, including the certified EIR for the Delta Conveyance Project; DWR's findings relating to the Delta Conveyance Project under State CEQA Guidelines section 15091 and 15093; and all public comments; and

WHEREAS, all other legal prerequisites to the adoption of this Resolution have occurred.

# NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE PALMDALE WATER DISTRICT:

<u>SECTION 1</u>. <u>Incorporation of Recitals</u>. The foregoing recitals are true and correct and are incorporated herein and made an operative part of this Resolution.

<u>SECTION 2.</u> <u>Adequacy of the EIR under CEQA</u>. The Palmdale Water District has independently reviewed and considered the certified EIR for the Delta Conveyance Project, DWR's record of proceedings, and the Palmdale Water District's record of proceedings, and the Palmdale Water District finds that the EIR adequately and properly analyzes the potential environmental impacts of the Delta Conveyance Project, including Pre-Construction Work that the Palmdale Water District seeks to fund.

The Palmdale Water District further hereby finds that none of the conditions set forth in State CEQA Guidelines section 15162 that could potentially trigger the need for a Subsequent EIR or Subsequent Negative Declaration apply to the Pre-Construction Work. The Pre-Construction Work does not entail or propose any substantial changes to the Delta Conveyance Project that will

require major revisions of the EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects. There have been no substantial changes that have occurred with respect to the circumstances under which the Pre-Construction Work, which was analyzed in the EIR, will be undertaken that will require major revisions of the EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects. There has been no new information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the EIR was certified, which shows that (1) the Pre-Construction Work will have one or more significant effects not discussed in the EIR; (2) significant effects previously examined will be substantially more severe than shown in the EIR; (3) mitigation measures or alternatives previously found not to be feasible would in fact be feasible, and would substantially reduce one or more significant effects of the Delta Conveyance Project or Pre-Construction Work; or (4) mitigation measures or alternatives which are considerably different from those analyzed in the EIR would substantially reduce one or more significant effects on the environment. None of these conditions, as set forth in State CEQA Guidelines section 15162, apply here.

<u>SECTION 3</u>. Finding concerning Alternatives and Mitigation Measures. The Palmdale Water District, as a responsible agency under CEQA, is more limited than the lead agency (i.e., DWR) when considering alternatives and mitigation measures for the Delta Conveyance Project. A responsible agency has responsibility for mitigating or avoiding only the direct or indirect environmental effects of those parts of a project that the responsible agency decides to carry out, finance, or approve; moreover, a responsible agency is required to adopt a feasible alternative or feasible mitigation measures for a project only if (1) such alternative or mitigation measures are within the responsible agency's powers, and (2) the alternative or mitigation measures would substantially lessen or avoid any significant effect the project would have on the environment.

Here, the Palmdale Water District is not approving or committing to carrying out, financing, or approving the broader Delta Conveyance Project, nor does the Palmdale Water District have legal authority or powers to approve or carry out modifications or operations to the State Water Project or the Delta Conveyance Project. Instead, the Palmdale Water District seeks only to assist in the funding of the Pre-Construction Work, which entails data collection, research, and resource evaluation activities that precede any physical construction of the Delta Conveyance Project. The Palmdale Water District finds that the mitigation measures to be implemented by DWR, as set forth in the EIR and the MMRP adopted by DWR, mitigate and avoid the Pre-Construction Work's potential environmental impacts to the extent feasible. The Palmdale Water District finds there are no feasible alternatives or feasible mitigation measures within its powers that would substantially lessen or avoid any significant effect the Pre-Construction Work would have on the environment beyond what was identified in the EIR and the MMRP.

<u>SECTION 4.</u> <u>CEQA Findings of Fact under State CEQA Guidelines section 15091</u>. The Palmdale Water District adopts DWR's CEQA Findings of Fact, a true and correct copy of which is attached hereto as **Attachment** "A" and incorporated herein by reference, as to the Pre-Construction Work.

<u>SECTION 5.</u> <u>Statement of Overriding Considerations</u>. The Palmdale Water District finds that the Pre-Construction Work's economic, legal, social, technological, and other benefits outweigh, both individually and collectively, the Pre-Construction Work's potentially significant and unavoidable environmental effects. Pursuant to State CEQA Guidelines section 15093, the Palmdale Water

District hereby adopts the Statement of Overriding Considerations attached hereto and incorporated by reference as Attachment "B."

<u>SECTION 6.</u> <u>Approval of Funding for Pre-Construction Work</u>. The Board of Directors of the Palmdale Water District hereby authorizes the General Manager of the Palmdale Water District to execute an amendment to the agreement for the advance or contribution of money to the Department of Water Resources to provide funding for Pre-Construction Work for the Calendar Years 2026-2027 in an amount not to exceed \$3,180,000.

<u>SECTION 7</u>. Notice of Determination. The Board of Directors hereby directs staff to prepare, file, and cause to be posted a Notice of Determination with the County Clerk or Clerk to the Board of Supervisors in the Counties of Alameda, Contra Costa, Sacramento, San Joaquin, Solano, and Yolo within five (5) working days of the approval of the Resolution.

<u>SECTION 8</u>. <u>Custodian of Documents</u>. The custodian of documents constituting the record of proceedings for this matter is the General Manager. The documents constituting the record of proceedings for this matter are located at 2029 East Avenue Q Palmdale, CA 93550.

<u>SECTION 9</u>. <u>Severability</u>. If any provision of this Resolution is held invalid, the remainder of this Resolution shall not be affected by such invalidity, and the provisions of this Resolution are severable.

<u>SECTION 10</u>. <u>Effective Date</u>. This Resolution shall become effective immediately upon its adoption.

**PASSED, APPROVED AND ADOPTED** by the Board of Directors during on this 12<sup>th</sup> day of November 2024, by the following vote:

AYES: President Mac Laren-Gomez, Directors Kellerman, Wilson, Sanchez, Dino

NOES: None ABSTAIN: None ABSENT: None

Vincent Dino, Secretary Palmdale Water District

APPROVED AS TO FORM:

Aleshire & Wynder, LLP General Counsel

Kathy Mag Laren-Gomez, President Palmdale Water District

# Attachment "A"

**Department Of Water Resources'** 

**CEQA Findings Of Fact** 

# 1DELTA CONVEYANCE PROJECT2CEQA FINDINGS OF FACT AND3STATEMENT OF OVERRIDING4CONSIDERATIONS

2	Contents		
3	Chapter 1 Int	roduction	1-1
4	Chapter 2 Re	cord of Proceedings	2-1
5	Chapter 3 Re	circulation	3-1
6	Chapter 4 Su	bsequent Review	4-1
7	Chapter 5 Pro	oject Background	5-1
8	5.1 P	Project Objectives	5-2
9	5.2 P	Project Description	5-3
10	5.2.1	Intake Structure and Fish Screens	5-3
11	5.2.2	Construction of Intake Structures	5-4
12	5.2.3	Sedimentation Basins and Drying Lagoons	5-4
13	5.2.4	Bethany Complex and Other facilities	5-5
14	5.2.5	Water Conveyance Operational Components	5-7
15	5.2.6	Adaptive Management and Monitoring	5-8
16	5.3 E	nvironmental Review Process	5-8
17	5.3.1	Alternatives Development and Screening Process	5-8
18	5.3.2	Release of, and Comments on, the Draft EIR	5-10
19	5.3.3	Preparation of the Final EIR	5-11
20	Chapter 6 Pro	oject Specific Findings on the Delta Conveyance Project Environmental	
21		Impacts	
22		Potentially Significant and Unavoidable Impacts	
23		Potentially Significant Impacts Reduced to Less than Significant	
24	6.3 lı	mpacts That Are Less than Significant or No Impact	6-2
25	Chapter 7 Fir	ndings Regarding Alternatives to the Project	7-1
26	7.1 B	asis for Alternatives-Feasibility Analysis	7-1
27	7.2 A	Iternatives Addressed in the EIR	7-3
28	7.3 S	ummary Comparison	7-3
29	7.4 E	nvironmentally Superior Alternative	7-10
30	7.5 li	nfeasibility of Alternatives Other than the Project	7-12
31	7.5.1	Rejection of Alternative 1: 6,000 cfs Central Alignment with Intakes B and C	7-13
32	7.5.2	Rejection of Alternative 2a: 7,500 cfs Central Alignment with Intakes A-C	7-14
33	7.5.3	Rejection of Alternative 2b: 3,000 cfs Central Alignment with Intake C	7-14
34	7.5.4	Rejection of Alternative 2c: 4,500 cfs Central Alignment with Intakes B and C	7-15
35	7.5.5	Rejection of Alternative 3: 6,000 cfs Eastern Alignment with Intakes B and C	7-16

1	7.5.6	Rejection of Alternative 4a: 7,500 cfs Eastern Alignment with Intakes A-C	7-17
2	7.5.7	Rejection of Alternative 4b: 3,000 cfs Eastern Alignment with Intake C	7-17
3	7.5.8	Rejection of Alternative 4c: 4,500 cfs Eastern Alignment with Intakes B and C	
4	7.5.9	Rejection of No Project Alternative	7-19
5	7.5.10	Alternatives Considered but Rejected from Further Consideration	7-20
6	Chapter 8 Stat	ement of Overriding Considerations	8-1
7 8		store and Protect the Reliability of SWP Water Deliveries South of the Delta Addressing Seismic Risks	8-3
9 10 11	by	store and Protect the Reliability of SWP Water Deliveries South of the Delta Addressing Reasonably Foreseeable Consequences of Climate Change and treme Weather Events	9 /
12 13	8.3 Re	store and Protect the Reliability of SWP Water Deliveries South of the Delta	
13 14		Addressing Sea Level Rise	
14 15	8.4 Pi 8.4.1	otect and Benefit California's Economy Benefits of Project Operations to the State's Economy	
16	8.4.2	Benefits of Project Construction to the State's Economy	8-8
17 18		ovide SWP Operational Flexibility and Better Manage Risks of Further gulatory Constraints on Project Operations	8-8
19		imary of Conclusions	
20 21	-	ferences Cited	

Chapter 1	
Introduction	

3 4 5 6 7 8 9 10 11	Under the California Environmental Quality Act (CEQA), a state or local public agency decision maker, before approving a project for which an environmental impact report (EIR) was prepared, must make certain findings with respect to each significant impact identified in the EIR. (See Pub. Resources Code, § 21081, subd. (a); see also Cal. Code Regs., tit. 14, div. 6, ch. 3 ("CEQA Guidelines"), § 15091, subd. (a).) Such findings are one of the primary means by which California public agencies satisfy what the California Supreme Court has called the "substantive mandate" of CEQA, by which such agencies must substantially lessen or avoid the occurrence of significant environmental impacts to the extent feasible. (See Mountain Lion Foundation v. Fish & Game Com. (1997) 16 Cal.4th 105, 134; Pub. Resources Code, § 21002.)
12 13	With regard to each significant impact, the agency decisionmaker must make at least one of the following findings:
14 15	(1) Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect as identified in the final EIR;
16 17 18	(2) Such changes or alterations are within the responsibility and jurisdiction of another public agency and not the agency making the finding. Such changes have been adopted by such other agency or can and should be adopted by such other agency.
19 20 21	(3) Specific economic, legal, social, technological, or other considerations, including provision of employment opportunities for highly trained workers, make infeasible the mitigation measures or project alternatives identified in the final EIR.
22	(CEQA Guidelines, § 15091, subd. (a)(1)-(3).)
23 24	Additionally, the findings required under CEQA must be supported by substantial evidence. (CEQA Guidelines, § 15091, subd. (b).)
25 26 27 28	A typical set of CEQA findings identifies all adopted or rejected mitigation measures for the various significant environmental impacts of a proposed project. The findings then go on to explain why various project alternatives identified in EIRs are either infeasible or unnecessary to meet the substantive mandate of CEQA.
29 30 31 32 33 34 35 36 37	A related CEQA requirement is the need for the agency decision maker to adopt a "statement of overriding considerations" before approving any project with environmental effects that cannot feasibly be mitigated to a less than significant level. (Pub. Resources Code, § 21081, subd. (b); CEQA Guidelines, § 15093.) This separate requirement is not a substitute for the adoption of CEQA findings, but is an additional procedural step required as part of the project approval process. A statement of overriding considerations must identify "the specific economic, legal, social, technological, or other benefits, including region-wide or statewide environmental benefits, of [the] proposed project [that] outweigh the [project's] unavoidable adverse environmental effects," thereby rendering them "acceptable" to the decision maker. (CEQA Guidelines, § 15093, subd. (a).)
38 39 40	The document at hand is intended to satisfy both of the above-described CEQA requirements with respect to the project commonly known as the Delta Conveyance Project (the Project). As the CEQA lead agency, the California Department of Water Resources (DWR) has completed the Final

- Environmental Impact Report (Final EIR) for the Project. As the final decision maker for DWR, the
   Director of DWR (Director) has certified the EIR pursuant to CEQA Guidelines section 15090 and is
   now in a position to consider approval of the Project.<sup>1</sup>
- 4 Through this document, including its attachments, the Director hereby issues both the CEQA
- 5 Findings of Fact (Findings) and the Statement of Overriding Considerations necessary for the
- 6 Project. The Director does so after having received, reviewed, and considered not only the Final EIR,
- 7 but also the previously issued Draft Environmental Impact Report (Draft EIR), as well as public and
- 8 agency comments on those documents and all other information in DWR's record of proceedings.
- 9 The tables included in Exhibit A (CEQA Findings of Fact for the Project's Significant and Unavoidable 10 Impacts, Impacts that are Less Than Significant after Mitigation and Impacts that are Less Than 11 Significant/No Impact), contain findings that explain all of the mitigation measures proposed in the 12 Final EIR (including the Compensatory Mitigation Plan for Special-Status Species and Aquatic 13 Resources) have been adopted and incorporated into the enforceable Mitigation Monitoring and 14 Reporting Program (MMRP) for the Project. (See Pub. Resources Code, § 21081.6, subds. (a)(1) and 15 (b).) Likewise, the environmental commitments including best management practices (BMPs) set 16 forth in Appendix 3B, Environmental Commitments and Best Management Practices, of the Final EIR 17 have been incorporated into the MMRP.
- As part of the narrative portion of these findings, the Director explains why the other project
   alternatives analyzed in the Final EIR are being rejected. Each specific finding is supported by
   substantial evidence in the record of proceedings.
- The Statement of Overriding Considerations, found near the end of this document, then identifies the specific economic, legal, social, technological, and other benefits of the Project that, in the Director's view, outweigh the Project's significant and unavoidable environmental impacts. To the extent that these Findings do not set forth in detail all of the evidence in support of the conclusions reached, readers seeking additional information are directed to the Final EIR and supporting evidence in the record of proceedings, which is hereby incorporated by reference.
- In addition to these CEQA Findings and the Statement of Overriding Considerations, Exhibit B to
   these CEQA Findings sets forth the Director's Public Trust Findings for the Project. The Public Trust
   Findings consider the Project's potential effect on the public trust and the state's affirmative duty to
   preserve, so far as consistent with the public interest, the resources and values protected by the
- 31 trust. While the Public Trust Findings constitute separate findings from the CEOA Findings, the
- 32 CEQA Findings and overall record of proceedings provide further evidentiary support for the
- 33 conclusions reached in the Public Trust Findings.

<sup>&</sup>lt;sup>1</sup> Subsequent actions by other responsible agencies, such as the California Department of Fish and Wildlife, will also be required before Project construction and/or operation may commence. Before DWR commences any project operations, DWR and responsible agencies will take future discretionary actions identified in the EIR, and such future actions will be subject to CEQA.

1	Chapter 2
2	Record of Proceedings
3 4	For purposes of CEQA and these Findings, the Record of Proceedings for the Project consists of the following documents, at a minimum:
5 6	• The Notice of Preparation and all other public notices issued by DWR in conjunction with the Project.
7	• The Final EIR for the Project and any documents cited therein.
8 9	• All comments submitted by agencies or members of the public during the public comment period on the Draft EIR.
10 11	• All comments and correspondence submitted to DWR with respect to the Project, in addition to timely comments on the Draft EIR, including responses to the Notice of Preparation.
12	• The Mitigation Monitoring and Reporting Plan for the Project.
13 14 15 16	• All reports, studies, memoranda, maps, staff reports, or other planning documents in DWR's files relating to the Project prepared by DWR staff, consultants to DWR, and responsible or trustee agencies with respect to DWR's compliance with the requirements of CEQA and with respect to DWR's actions on the Project.
17 18	• All documents submitted to DWR by other public agencies or members of the public with respect to compliance with CEQA or with respect to the Project.
19 20	• Any minutes and/or verbatim transcripts of all public meetings held by DWR in connection with the Project.
21	• Any documentary or other evidence submitted to DWR regarding the Project.
22 23	• Matters of common knowledge to DWR, including, but not limited to federal, State, and local laws and regulations;
24 25	• Any documents expressly cited in the Final EIR, these findings, or the statement of overriding considerations in addition to those cited above; and
26 27	• Any other materials required to be in the record of proceedings by Public Resources Code section 21167.6, subdivision (e).
28 29 30 31	The custodian of the documents comprising the record of proceedings: Marcus Yee, DWR, Program Manager III for the Project, 1516 9 <sup>th</sup> Street, Sacramento, CA 95814. Many project-related documents that comprise the record of proceedings are also available on DWR's websites for the Project: https://www.deltaconveyanceproject.com and https://water.ca.gov/deltaconveyance.

- 1 The Director of DWR has relied directly or indirectly on all the documents listed above in reaching a
- 2 decision on the Project. Many of the documents listed above were prepared by, or submitted to,
- 3 DWR during preparation of the EIR for the Project. Other documents reflect prior planning or
- legislative decisions with which the Director was aware in approving the Project. For that reason,
  such documents form part of the underlying factual basis for the Director's decisions relating to
- 6 approval of the Project. (See Pub. Resources Code, § 21167.6, subd. (e)(10); *Browning-Ferris*
- 7 Industries v. City Council of City of San Jose (1986) 181 Cal.App.3d 852, 866; Stanislaus Audubon
- 8 Society, Inc. v. County of Stanislaus (1995) 33 Cal.App.4th 144, 155.)

3 4 5 6 7 8 9 10 11	Under section 15088.5 of the CEQA Guidelines, recirculation of an EIR is required when "significant new information" is added to the EIR after public notice is given of the availability of the draft EIR for public review but prior to certification of the final EIR. The term "information" can include changes in the project or environmental setting, as well as additional data or other information. New information added to an EIR is not "significant" unless the EIR is changed in a way that deprives the public of a meaningful opportunity to comment upon a substantial adverse environmental effect of the project or a feasible way to mitigate or avoid such an effect (including a feasible project alternative) that the project's proponents have declined to implement. "Significant new information" requiring recirculation includes, for example, a disclosure showing that:
12 13	(1) A new significant environmental impact would result from the project or from a new mitigation measure proposed to be implemented.
14 15	(2) A substantial increase in the severity of an environmental impact would result unless mitigation measures are adopted that reduce the impact to a level of insignificance.
16 17 18	(3) A feasible project alternative or mitigation measure considerably different from others previously analyzed would clearly lessen the significant environmental impacts of the project, but the project's proponents decline to adopt it.
19 20	(4) The draft EIR was so fundamentally and basically inadequate and conclusory in nature that meaningful public review and comment were precluded.
21	(CEQA Guidelines, § 15088.5, subd. (a).)
22 23 24 25 26	Recirculation is not required where the new information added to the EIR merely clarifies or amplifies or makes insignificant modifications in an adequate EIR. The above standard is "not intend[ed] to promote endless rounds of revision and recirculation of EIR's [sic]. Recirculation was intended to be an exception, rather than the general rule." ( <i>Laurel Heights Improvement Assn. v. Regents of the Univ. of Cal.</i> (1993) 6 Cal.4th 1112, 1132.)
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41	CEQA case law emphasizes that "'[t]he CEQA reporting process is not designed to freeze the ultimate proposal in the precise mold of the initial project; indeed, new and unforeseen insights may emerge during investigation, evoking revision of the original proposal." ( <i>Kings County Farm Bureau v. City of Hanford</i> (1990) 221 Cal.App.3d 692, 736-737; see also <i>River Valley Preservation Project v. Metropolitan Transit Development Bd.</i> (1995) 37 Cal.App.4th 154, 168, fn. 11.) "CEQA compels an interactive process of assessment of environmental impacts and responsive project modification which must be genuine. It must be open to the public, premised upon a full and meaningful disclosure of the scope, purposes, and effect of a consistently described project, with flexibility to respond to unforeseen insights that emerge from the process.' [Citation.] In short, a project must be open for public discussion and subject to agency modification during the CEQA process." (Concerned Citizens of Costa Mesa, Inc. v. 32nd Dist. Agricultural Assn. (1986) 42 Cal.3d 929, 936.) Similarly, additional studies included in a final EIR that result in minor modifications or additions to analyses concerning significant impacts disclosed in a draft EIR do not constitute "significant new information" requiring recirculation of an EIR. (See Mount Shasta Bioregional Ecology Center v. <i>County of Siskiyou</i> (2012) 210 Cal.App.4th 184, 220-221 [incorporation of technical studies in a final

EIR disclosing additional locations affected by a significant noise impact identified in the draft EIR
 did not require recirculation].)

3 DWR recognizes that the Final EIR incorporates information obtained and produced after the Draft 4 EIR was completed, and that the Final EIR contains additions, clarifications, and modifications, 5 including data and information to further support the information presented in the EIR. Due to the 6 challenges in making a document with strikeouts ADA compliant and to improve the overall 7 readability of the Final EIR, the Final EIR includes a final clean version of the EIR including the 8 additions, clarifications, and modifications made to the Draft EIR. The Final EIR summarizes the key 9 additions, clarifications, and modifications made by DWR in Volume 2, Chapter 1, Introduction and 10 Approach to Responses to Comments. Furthermore, a track change version of the EIR is available to 11 other agencies and the public upon request. DWR has reviewed and considered the Final EIR 12 including all new information included therein. DWR finds that the new information added in the 13 Final EIR either provides additional discussion and analysis not required by CEOA that was included 14 for informational purposes or otherwise clarifies or makes minor changes to the adequate Draft EIR.

- As explained further in Exhibit C to these CEQA Findings, none of the new information constitutes
  significant new information requiring recirculation of the Draft EIR under CEQA. The new
  information added to the EIR does not involve a new significant environmental impact, a substantial
  increase in the severity of a previously identified significant environmental impact, or a feasible
  mitigation measure or alternative that is considerably different from others previously analyzed
  that would clearly lessen one or more significant environmental impacts of the Project and that
  DWR declines to adopt.
- 22 DWR finds that the changes and modifications made to the EIR after the Draft EIR was circulated for
- 23 public review and comment do not individually or collectively constitute significant new
- 24 information within the meaning of Public Resources Code section 21092.1 or CEQA Guidelines
- 25 section 15088.5. No information indicates that the Draft EIR was inadequate or conclusory or that
- the public was deprived of a meaningful opportunity to review and comment on the Draft EIR. Thus,
   recirculation of the EIR is not required.

1	Chapter 4
2	Subsequent Review
-	
3	Prior to reaching decisions on the Project, responsible agencies must consider the environmental
4	effects of the project as shown in the EIR and determine whether a subsequent or supplemental EIR
5	is required pursuant to CEQA Guidelines sections 15162 or 15163. Furthermore, the EIR evaluates
6	Project operations based on the Project design and what was known and reasonably foreseeable
7	when the EIR was prepared, but DWR acknowledges that: (1) operations will not occur for well over
8	15 to 20 years due, in part, to the time required to complete construction of the project, and (2) new
9	information of substantial importance or substantial changes could occur with respect to Project
10	design or the circumstances under which the Project is undertaken. Under these conditions, prior to
11	the commencement of operations, DWR would evaluate whether subsequent CEQA review is
12	required before undertaking any discretionary actions that may be required to change Project
13	design or operational criteria such that they are sufficiently protective to environmental resources.

	Chapter 5
<b>Project</b>	Background

- 3 On April 29, 2019, Governor Newsom signed Executive Order N-10-19 directing the California 4 Natural Resources Agency, California Environmental Protection Agency, and California Department 5 of Food and Agriculture to develop a comprehensive strategy to build a climate-resilient water 6 system and ensure healthy waterways through the twenty-first century. After a public input period, 7 Governor Newsom released the California Water Resilience Portfolio on July 28, 2020. The California 8 Water Resilience Portfolio identified a suite of complementary actions to ensure safe and resilient 9 water supplies, flood protection, and healthy waterways for the state's communities, economy, and 10 environment. One of the projects identified in the portfolio is new diversion and conveyance 11 facilities in the Sacramento–San Joaquin Delta (Delta) to safeguard the State Water Project (SWP).
- 12 In response to Governor Newsom's water policy objectives, DWR as the owner and operator of the 13 SWP, proposed to design and construct two diversion facilities, each at 3,000 cfs capacity, on the 14 Sacramento River; a single tunnel for conveyance; tunnel shafts; and a pumping plant and 15 appurtenant facilities. As discussed further below, DWR's Notice of Preparation (NOP) for the 16 Project EIR identified the proposed project as either the central or eastern alignment with pumping 17 facilities in the south Delta near Clifton Court Forebay. These alternatives are identified as 18 Alternatives 1 and 3 in the Draft EIR. After the process of identifying and screening alternatives 19 evaluated in the Draft EIR (see Final EIR, Volume I, Appendix 3A, Identification of Water Convevance 20 Alternatives) and after an initial evaluation of the alternatives selected for detailed analysis in the 21 Draft EIR, DWR selected a different alternative as the proposed project to analyze in the Draft EIR. 22 Specifically, based on engineering feasibility, conceptual design, constructability, and potential to 23 reduce key environmental impacts on cultural resources, important farmland, wetlands and other 24 waters of the United States, wildlife habitat, transportation, air quality, noise, and Delta community 25 effects, DWR selected the Bethany Reservoir alignment at 6,000 cfs conveyance capacity as the 26 proposed project, which is identified as Alternative 5 in the EIR and referred to herein as the Project. 27 Unlike Alternatives 1 and 3, the Project proposes to discharge water directly to the Bethany 28 Reservoir along the California Aqueduct.
- 29 The primary purpose of the SWP is to convey water to local and regional water suppliers across 30 California that, in turn, supply end users engaged in the beneficial uses of that water; it serves as the 31 foundation for local water supplies. The SWP supplies water to 27 million people in northern 32 California, the Bay Area, the San Joaquin Valley, the Central Coast, and southern California. SWP 33 water also irrigates about 750,000 acres of farmland, mainly in the San Joaquin Valley (Final EIR, 34 Volume 1, Chapter 2, Purpose and Project Objectives, p. 2-1). Other SWP functions include flood 35 management, water quality maintenance, power generation, recreation, and fish and wildlife 36 enhancement. The SWP was designed to deliver up to nearly 4.2 million acre-feet of water per year, 37 depending on hydrologic conditions. The SWP has long-term contracts to supply water to 29 public 38 water agencies that distribute it to farms, homes, and industry. During the 1999 to 2008 period, 39 SWP deliveries averaged 2.86 MAF per year (California Department of Water Resources 2002, 40 2008a). But total SWP deliveries averaged about 1.96-million-acre feet (MAF) of water per year 41 from 2009 to 2018 (California Department of Water Resources 2020:18). Of the contracted water 42 supply, approximately 70% goes to municipal and industrial users and 30% to agricultural users 43 (Santa Clara Valley Water 2022). Water supply depends on rainfall, snowpack, runoff, water in

- 1 storage facilities, and pumping capacity from the Delta, as well as operational limits for fish and
- wildlife protection, water quality, and environmental and legal restrictions. The infrastructure that
   enables the conveyance, or movement, of California's water supply is critical to the health of
- 4 California's economy.

Factors such as the continuing subsidence of lands, risk of seismic activity and levee failures within
the Delta, sea level rise, precipitation change, warmer temperatures, and wider variations in
hydrologic conditions associated with climate change threaten the reliability of the current SWP
water conveyance system. Additionally, as explained in Final EIR, Volume 1, Chapter 1, Introduction,
Section 1.2.3.4, Regulatory Environment, pumping restrictions applied by regulatory agencies to

- 10 address water quality and aquatic species concerns at the south Delta diversion continue to prevent
- 11 the SWP from reliably capturing water when it is available, especially from storm events.
- Constraints on groundwater use imposed by the Sustainable Groundwater Management Act of 2014
   could also increase the need for reliable SWP surface water supplies over time.
- DWR's proposal of the Project is informed by past efforts undertaken to address the long-standing
  issues the SWP faces, including those undertaken through the CALFED Bay-Delta Program, the Delta
- 16 Risk Management Strategy, and the Bay Delta Conservation Plan/California WaterFix planning
- 17 process. The need for new Delta water conveyance infrastructure to help achieve the State's coequal
- 18 goals of "providing a more reliable water supply for California and protecting, restoring, and
- 19 enhancing the Delta ecosystem" (Pub. Resources Code § 29702(a)) was recognized by the legislature
- when it adopted the Sacramento–San Joaquin Delta Reform Act of 2009 (Water Code § 85000 et seq.,
  discussed in Final EIR, Volume 1, Chapter 1, *Introduction*, Section 1.2.3.1, *California Water Supply*,
- 21 and Section 1.2.4.4, *The Bay Delta Conservation Plan and California WaterFix*).

# 23 **5.1 Project Objectives**

DWR's fundamental purpose in proposing to develop new diversion and conveyance facilities in the
 Delta is to restore and protect the reliability of SWP water deliveries and, potentially, Central Valley
 Project (CVP) water deliveries south of the Delta, consistent with the State's Water Resilience
 Portfolio in a cost-effective manner.

- 28 The above stated purpose, in turn, gives rise to several related objectives of the Project, as follows:
- To help address anticipated rising sea levels and other reasonably foreseeable consequences of climate change and extreme weather events.
- To minimize the potential for public health and safety impacts from reduced quantity and quality of SWP water deliveries, and potentially CVP water deliveries, south of the Delta as a result of a major earthquake that could cause breaching of Delta levees and the inundation of brackish water into the areas where existing SWP and CVP pumping plants operate in the southern Delta.
- To protect the ability of the SWP, and potentially the CVP, to deliver water when hydrologic
   conditions result in the availability of sufficient amounts of water, consistent with the
   requirements of state and federal law, including the California and federal Endangered Species
   Acts (CESA and ESA, respectively) and Delta Reform Act, as well as the terms and conditions of
   water delivery contracts and other existing applicable agreements.

2

• To provide operational flexibility to improve aquatic conditions in the Delta and better manage risks of further regulatory constraints on project operations.

## 3 5.2 Project Description<sup>2</sup>

4 The Project involves the construction and future operation of new water intake facilities on the 5 Sacramento River in the north Delta and a single main tunnel to divert and move water entering the 6 north Delta from the Sacramento Valley watershed to existing SWP facilities in the south Delta, 7 which would result in a dual conveyance system in the Delta. The water intake facilities would divert 8 water through state-of-the-art fish screens. The proposed north Delta intakes would operate in 9 conjunction with the existing SWP intakes in the south Delta. The proposed intakes would augment 10 the ability to capture excess flows and improve the flexibility of the SWP operations such as for 11 meeting the State Water Board Decision 1641 Delta salinity requirements. The north Delta intakes 12 would be used to capture additional excess flows when the south Delta exports are limited and not 13 able to capture those flows.

14 Under the Project, two intakes (Intakes B and C as defined in the EIR) would together convey up to 15 6,000 cfs of water from the north Delta along an eastern alignment to the launch shaft at Lower 16 Roberts Island. From Lower Roberts Island, the single below ground tunnel would follow a route to 17 a location south of Clifton Court Forebay and terminate at the Bethany Complex. A map and a 18 schematic diagram depicting the conveyance facilities associated with the Project are provided in 19 Final EIR, Volume 1, Mapbook 3-3 as well as Figures 3-2 (Bethany Reservoir Alignment) and 3-30. 20 The Project would entail the continued use of the SWP south Delta export facilities as the primary 21 diversion location. The sections below provide details on key features of the Project along with a 22 summary of Project features.

#### 23 **5.2.1** Intake Structure and Fish Screens

Intakes B and C on the east bank of the Sacramento River would divert water and convey it through
a single main tunnel. Intake B would be just north of Hood, and Intake C would be between Hood
and Courtland (see Final EIR, Volume 1, Mapbook 3-3, Sheets 2 and 3). Intakes B and C would each
divert up to 3,000 cfs under the Project. Operated in a coordinated manner with the existing
facilities, the north Delta facilities would provide flexibility to alter the location, amount, timing, and
duration of diversions to help manage water quality in the Delta or when excess flows occur after all
other applicable Delta outflow requirements are met.

At each intake, water would flow through cylindrical tee fish screens mounted on the intake structure to a sedimentation basin before reaching the intake outlet (tunnel inlet) shaft at each site. The intake outlet shaft would serve as the tunnel boring machine reception or maintenance shaft during construction and as the intake shaft and maintenance access during operation. These shafts would have an inside diameter of 83 feet. From the intake outlet shaft, water would flow into a single-bore main tunnel that connects the intakes to the Twin Cities Complex, from which the tunnel route would extend south on the Bethany Reservoir alignment.

<sup>&</sup>lt;sup>2</sup> This information is derived from Chapter 3, *Description of the Proposed Project and Alternatives*, of the Final EIR and outlines key features of the Project. For more information on the Project components, see Chapter 3 of the Final EIR.

- 1 Intake features would include state-of-the-art cylindrical tee fish screens, intake structures,
- 2 sedimentation basins, sediment drying lagoons, and flow control structures. Intakes would also
- 3 include associated facilities to support construction and operation of the intakes. Fish screens
- 4 installed on intake structures minimize aquatic species from being carried into the intake facilities
   5 along with the diverted water. The intake screens are designed to draw in water at reduced
- 6 velocities to reduce potential effects to the subset of fish exposed to the intake screens.

7 The intake fish screens are part of an overall intake system that includes the screen units and an 8 integrated screen cleaning system, piping, and flow control features. The "tee-shaped" screen units 9 would consist of two fish screen cylinders installed on either side of a center manifold that would be 10 connected to the facility's intake opening. Each intake fish screen would extend about 12 feet from 11 the vertical face of the intake structure into the river. During diversion operations, water would flow 12 from the Sacramento River through the fish screens and a 60-inch diameter pipe and discharge into 13 the sedimentation basins. Control gates would regulate the flow through each screen unit to the 14 sedimentation basin.

#### **5.2.2 Construction of Intake Structures**

16 Installing the intake facility would require construction of a temporary cofferdam for in-river 17 portions of intake construction to divert water and aquatic organisms around the work site and 18 create a dry work area. Portions of the cofferdam would consist of interlocking steel sheet piles 19 installed using vibratory pile driving or, if necessary, a combination of vibratory and impact pile 20 driving. Vibratory pile driving is a method by which the pile is vibrated into the soil beneath the site 21 as opposed to being hammered in, as occurs in impact pile driving. Noise associated with the 22 vibratory pile driving is considerably lower than noise associated with impact hammer pile driving. 23 To minimize noise and other disturbances from pile driving, vibratory pile driving would be used to 24 the extent possible where supported by additional geotechnical information, thus eliminating or 25 minimizing impact pile driving. All pile driving would be restricted to the daytime hours between 26 7:00 a.m. and 7:00 p.m. and would not occur at night. It is estimated that the longest installation 27 period (at Intake C) would be no more than 255 hours over a 5- or 6- week period, including time for 28 handling and preliminary vibratory pile driving. Assuming 2 minutes of driving time for each sheet 29 pile pair, impact drive time (as a subset of the total installation period) would be a cumulative total 30 of 14 hours at Intake C with 3,000-cfs capacity, occurring over roughly 5 or 6 weeks. Each intake 31 sheet pile construction period would be staggered by about 1 year (Delta Conveyance Design and 32 Construction Authority 2022).

### 33 5.2.3 Sedimentation Basins and Drying Lagoons

34Diverted water would contain sediment suspended in the river water, a portion of which would be35collected in a concrete-lined sedimentation basin. A deep soil-cement-bentonite perimeter wall36(cutoff wall) would serve to isolate the sediment basins from the local groundwater and the37Sacramento River. Each intake would have one sedimentation basin divided into two cells by a38turbidity curtain. Water would flow from the intake through the sedimentation basin and through a39flow control structure with radial gates into the outlet channel and shaft structure that would be40connected to the tunnel system.

The screen and intake design would allow sufficient flow velocities in diversion pipes to sweep
sediment into the sedimentation basin and prevent it from settling in the piping system. Once the
diverted water enters the sedimentation basins, larger sand and silt sediment particles would settle

- 1 while smaller silt and clay particles would be carried into the tunnel. A flow control structure with
- 2 four large radial gates and one smaller gate would control the water level in the sedimentation basin
- and discharge flow into the intake outlet channel and outlet shaft. Tunnel and aqueduct velocity
  would be sufficient to transport these smaller particles to Bethany Reservoir.

5 Each intake would have four concrete-lined sediment drying lagoons, each approximately 15 feet 6 deep, containing an average of 10 to 12 feet of water within its embankments when in use. Once a 7 year, during the summer months, the sedimentation basin would be dredged, one half at a time, and 8 sediment slurry discharged to drying lagoons, dewatered, and allowed to dry naturally. The 9 sediment is anticipated to be composed of large silt and sand particles with minimal organic 10 material. During dredging operations, sediment is expected to accumulate to a depth of about 1 foot, 11 distributed over the floor of the drying lagoons. Water drained from the sediment drying lagoon outlet structures and underdrains would be pumped back into the sedimentation basin. The 12 13 sediment remaining would be dried for 2 to 6 days, which would reduce its moisture content to a 14 point at which the sediment can be removed and transported without creating dust. If sediment is 15 dried to a level that would create dust, the dust would be controlled by application of water from on-16 site supplies. The dried sediment would be removed by truck for disposal at a permitted disposal 17 site or used for beneficial uses off-site. The fill and drain/dry sequence would take about 7 to 8 days, 18 which would approximately match the dredged material filling rate so continuous operation would 19 be possible. On average, each drying lagoon would fill about once every 4 to 8 days and contain up to 20 about 1,800 cubic yards of sediment. The volume of sediment collected would depend upon the 21 volume, suspended sediment concentration, and flow rate of water diverted at the intake. Intake 22 maintenance activities are described in Final EIR, Volume 1, Chapter 3, Description of the Proposed 23 Project and Alternatives, Section 3.16.5, Intake Maintenance Activities.

#### 24 **5.2.4 Bethany Complex and Other facilities**

25 The Project would use Intakes B and C to convey up to 6,000 cfs of water from the north Delta along 26 an eastern alignment to the launch shaft at Lower Roberts Island. From Lower Roberts Island, the 27 tunnel would follow a route to a location south of Clifton Court Forebay and terminate at the 28 Bethany Complex. The Bethany Complex would include a pumping plant, a surge basin with 29 reception shaft, a buried pipeline aqueduct system, and a discharge structure to convey water to 30 Bethany Reservoir. The Bethany Complex would be constructed southeast of Clifton Court Forebay. 31 The Bethany Complex includes the Bethany Reservoir Pumping Plant which would be needed to lift 32 the water from the tunnel to Bethany Reservoir. The main tunnel from the intakes would terminate 33 at a reception shaft within the surge basin on the north side of the Bethany Reservoir Pumping 34 Plant. Water would enter the Bethany Reservoir Pumping Plant and be conveyed directly to Bethany 35 Reservoir in an aqueduct system. The Bethany Reservoir Pumping Plant would include the Bethany 36 Reservoir Surge Basin which would remain empty while the Bethany Reservoir Pumping Plant is 37 operating. The Bethany Reservoir Aqueduct system would consist of four 15-foot-diameter parallel 38 pipelines that would convey water from the Bethany Reservoir Pumping Plant to the Bethany 39 Reservoir Discharge Structure, a distance of approximately 2.5 miles each. Two separate aqueduct 40 reaches would require tunnels to carry each pipeline under existing features. The first reach would 41 be under the Jones Pumping Plant discharge pipelines (about halfway from the Bethany Reservoir 42 Pumping Plant to the discharge structure); at this location pipelines would run about 50 feet below 43 ground surface for about 200 feet. Tunnels would also be needed under the existing conservation 44 easement adjacent to Bethany Reservoir (at the last downstream reach of the aqueduct) for about 45 3,064 feet, ranging from 45 to 180 feet below ground surface. The aqueduct pipelines would

1 terminate near the bottom of four 55-foot-inside-diameter below ground vertical shafts at the 2 Bethany Reservoir Discharge Structure. The pipelines would make a 90-degree bend upward inside 3 the shafts, ending at the floor of the discharge structure and flowing through a concrete channel into 4 Bethany Reservoir. Finally, the discharge structure portion of the Bethany Complex called the 5 Bethany Reservoir Discharge Structure located near the bank of Bethany Reservoir includes the 6 aqueduct conservation easement tunnel vertical exit shafts, contractor staging areas, and ancillary 7 facilities. The proposed discharge structure site would be on a narrow strip of land between the 8 conservation easement and Bethany Reservoir.

#### 9 Table 1. Summary of Project Features

Characteristic	Description <sup>a</sup>
Alignment	Bethany Reservoir
Conveyance capacity	6,000 cubic feet per second
Number of Intakes	2; Intakes B and C at 3,000 cfs each
Tunnel from Intakes to Bethany Reservoir Pump	ing Plant
Diameter	36 feet inside, 39 feet outside
Length	45 miles
Number of tunnel shafts	11 b
Launch shafts diameter	115 feet inside
Reception and maintenance shafts diameter	70 feet inside
Surge Basin reception shaft diameter	120 feet inside
Twin Cities Complex	Construction acres: 586
-	Permanent acres: 222
New Hope Tract Maintenance Shaft	Construction acres: 11
	Permanent acres: 11
Canal Ranch Tract Maintenance Shaft	Construction acres: 11
	Permanent acres: 11
Terminous Tract Reception Shaft	Construction acres: 13
	Permanent acres: 13
King Island Maintenance Shaft	Construction acres: 12
	Permanent acres: 12
Lower Roberts Island Double Launch Shaft site	Construction acres: 610
	Permanent acres: 300
Upper Jones Tract Maintenance Shaft	Construction acres: 11
	Permanent acres: 11
Union Island Maintenance Shaft	Construction acres: 14 Permanent acres: 14
Bethany Complex	i cimanent del es. 14
	Construction acres: 213
Bethany Reservoir Pumping Plant and Surge Basin site size (all facilities)	Permanent acres: 184
Bethany Reservoir Pumping Plant pad site	1,166 foot wide x 1,260 feet long
beinany reservoir i uniping i lant pau site	(approximately 34 acres)
Surge basin	815 feet wide x 815 feet long x 35 feet deep,
-	approximately 15 acres

Characteristic	Description <sup>a</sup>
Bethany Reservoir Aqueduct	Four 15-foot-diameter parallel below-ground pipelines Approximately 14,900 linear feet each
	Construction acres: 128 acres
	Permanent acres: 68
Aqueduct tunnels	Four 20-foot-diameter parallel tunnels, two reaches
Bethany Reservoir Discharge Structure	Construction acres: 15
	Permanent acres: 13
RTM Volumes and Storage	
Twin Cities Complex long-term RTM storage (approximate)	214 acres x 15 feet high
Lower Roberts Island long-term RTM storage (approximate)	189 acres x 15 feet high
Bethany Complex	No TBM RTM generated or stored
Total wet excavated RTM volume (for single main tunnel from intakes to Bethany Reservoir Surge Basin shaft)	14.4 million cubic yards

<sup>a</sup> Acreage estimates represent the permanent surface footprints of selected facilities. Overall Project acreage includes
 some facilities not listed, such as permanent access roads.

<sup>b</sup> Number of shafts for the main tunnel from intakes to Bethany Reservoir Surge Basin shaft, counting the double
 shaft at Twin Cities Complex and the double shaft at Lower Roberts Island each as one shaft.

### 7 5.2.5 Water Conveyance Operational Components

8 The proposed north Delta intakes would operate in conjunction with the existing SWP. Operations of 9 the existing SWP facilities, and in coordination with CVP operations pursuant to the Coordinated 10 Operations Agreement, will be governed by the applicable regulatory requirements specified under 11 the State Water Board Water Quality Control Plan for the San Francisco Bay/Sacramento-San 12 Joaquin Delta Estuary (Bay-Delta Plan) and assigned to the SWP in the applicable water right 13 decision, applicable biological opinions under ESA, applicable incidental take permit under CESA, 14 and U.S. Army Corps of Engineers (USACE) Clifton Court diversion limits. The operations of the 15 proposed north Delta intakes would remain consistent with these existing regulatory requirements. 16 The Project is seeking a new point of diversion be added to DWR's existing water rights, and is not 17 seeking to expand water right quantity. In addition, diversions at the proposed north Delta intakes 18 would be governed by new operational criteria specific to these intakes, such as the fish screen 19 approach velocity requirements, bypass flow requirements, and pulse protection. These new criteria 20 provide additional protections to the fish species over and above the protections from the state-of-21 the-art positive barrier fish screens included at the proposed intakes. A detailed table describing the 22 proposed operational criteria is provided in Final EIR, Volume 1, Chapter 3, Description of the 23 Proposed Project and Alternatives, Table 3-14. Additional detail for the proposed north Delta intakes 24 is provided in Final EIR, Volume 1, Table 3-15 in Section 3.16.7, Delta Conveyance Project 25 Preliminary Proposed Operations Criteria. Also, in Final EIR, Volume 1, Section 3.16.7, Figure 3-37 26 provides a visual depiction of maximum allowable diversions in winter/spring and expected 27 diversions in summer/fall. Final EIR, Volume 1, Figure 3-38 provides a depiction of the north Delta 28 diversion operations concepts to minimize potential effects to aquatic species.

#### 1 5.2.6 Adaptive Management and Monitoring

2 Adaptive management for the Project, as required by the Delta Reform Act and described in 3 Appendix 1B of the Delta Plan, would encompass three major phases: planning, implementation, and 4 evaluation and response (Delta Stewardship Council 2015; Cal. Code Regs., title 23, § 5002(b)(4)). 5 The adaptive management plans and programs would document all activities associated with the 6 planning phase of adaptive management and describe the process to be followed during the 7 implementation and evaluation and response phases. Project objectives were taken into consideration in identifying where adaptive management would be most effective and applicable for 8 9 the project. As appropriate, mitigation measures identified in the Final EIR, such as implementation 10 of the habitat creation and restoration actions in the Compensatory Mitigation Plan (CMP), would integrate the concept of adaptive management in mitigation plan design, stand-alone site and/or 11 12 resources-specific adaptive management plans would be adopted if the project is approved. In 13 addition, an Operations Adaptive Management and Monitoring Program would be used to monitor 14 and consider the design and operation of the new north Delta intakes and determine whether they 15 result in unanticipated effects that may warrant refinements in design, management, and/or operation. For more information see Final EIR, Volume 1, Chapter 3, Description of the Proposed 16 17 Project and Alternatives, Section 3.18, Adaptive Management and Monitoring Program.

# 18 **5.3 Environmental Review Process**

#### 19 5.3.1 Alternatives Development and Screening Process

20 The 2020 NOP identified the proposed project as a 6,000 cfs diversion capacity alternative, to be located on either a central or eastern alignment from intakes in the north Delta to pumping facilities 21 in the south Delta near Clifton Court Forebay. The EIR analyses were initiated with this concept of 22 23 the proposed project, and with the knowledge that additional engineering refinements, preliminary 24 findings about key environmental impacts, and input from the public and other interested parties 25 may result in future changes. As the development of the EIR progressed, the evaluation provided 26 additional information about the environmental impacts associated with the project alternatives. 27 The preliminary impact assessment found that the Bethany Reservoir alignment had the potential to 28 reduce environmental effects as compared to other project alternatives (see Section 7.3, Summary 29 Comparison, for a discussion and comparison of project alternatives). As a result, DWR identified the 30 Bethany Reservoir alignment (Alternative 5) as the proposed project in the EIR.

31 DWR began the alternatives development process by revisiting the scoping comments received on 32 the Bay Delta Conservation Plan (BDCP) and California WaterFix, as described in Final EIR, Volume 33 1, Chapter 1, Introduction. During the 2009 BDCP EIR/EIS scoping process, 1,051 comments were 34 received related to the development of alternatives. After publishing the Draft BDCP EIR/EIS, based 35 on the Habitat Conservation Plan/Natural Community Conservation Plan approach in December 36 2013, and after reviewing critical public and fish and wildlife agency comments on that document, 37 the lead agencies introduced a new proposed action called the California WaterFix in a Partially 38 Recirculated Draft EIR/Supplemental Draft EIS in July 2015.

While the BDCP and then California WaterFix had different project objectives, some of these
 alternative comments or suggestions were applicable to the Delta Conveyance Project. The 2020
 Delta Conveyance Project NOP described a new proposed single-tunnel project and solicited

- 1 additional suggestions about potential alternatives during the public scoping period. This involved
- input from a large group of interested parties, an extensive evaluation of various options, and
   analysis of the environmental impacts that goes beyond the normal scope of a CEQA review. These
- processes were helpful in informing the public and gathering input on a project that would affect a
   very complex estuary and a statewide water supply system.
- 6 The Project underwent a public scoping period of 93 days from January 15 to April 17, 2020, where 7 DWR received public comments from 2,000 individuals, organizations, and agencies on the scope of 8 issues to be considered in the Draft EIR. Eight scoping meetings, which hosted a total of more than 9 700 attendees, were held throughout the state to provide information on the project and gather 10 comments. The scoping period was originally scheduled for a period of 65 days ending on March 20. 11 2020, but was extended for an additional 28 days per the request of interested parties to allow for 12 additional time to review project information, and to accommodate unprecedented circumstances 13 related to the coronavirus disease 2019 (COVID-19) pandemic. During this period, the public was 14 invited to participate in the earliest phase of the environmental review process and DWR accepted 15 public comments on the proposed project as defined in the NOP. For more detailed information 16 about the scoping process and relevant outreach efforts, please see Final EIR, Volume 1, Appendix 17 1A, Scoping Summary Report.
- Following the 2020 NOP and consideration of scoping comments, DWR screened a range of
  alternatives and began evaluating potential impacts from constructing, operating, and maintaining
  conveyance facility alternatives. Contemporaneously, the engineering team continued to refine
  potential facility designs, construction approaches, and project operations to optimize the
  conveyance facility approach and evaluate options to further reduce environmental effects.
- 23 The screening process for the Delta Conveyance Project EIR focused on identifying alternatives to 24 the proposed project, as defined in the NOP, and these alternatives were screened with the purpose 25 and objectives of the proposed project in mind. The proposed project identified in the NOP and 26 developed to specifically meet the stated project objectives. Dual Conveyance Central Tunnel 27 Alignment or Dual Conveyance Eastern Tunnel Alignment, with a maximum 6,000 cfs capacity, was 28 the basis against which alternatives were screened. The screening criteria were developed 29 consistent with the legal requirements of CEQA and the project objectives included in the NOP 30 published on January 15, 2020.
- 31 The alternatives were grouped into four categories of dual conveyance, isolated conveyance, 32 through-Delta conveyance with proposed diversion facility, and through-Delta conveyance with no 33 new diversion facilities. A fifth "other" category encompassed alternatives proposing other 34 technologies, including capping the California Aqueduct, use of an aboveground "tube" to convey 35 water, and desalination on barges in Monterey Bay. Not including the NOP identified alternatives 36 (Dual Conveyance Central Tunnel Alignment with 6,000-cfs 35 capacity and Dual Conveyance 37 Eastern Tunnel Alignment with 6,000-cfs capacity), a total of 21 alternatives were generated at this 38 stage. In some cases, multiple similar proposals were combined and evaluated as one. Each of the 39 screened alternatives is described in Final EIR, Volume 1, Appendix 3A, Identification of Water 40 Conveyance Alternatives.
- The 21 potential alternatives to the proposed project were screened through a two-level filtering
  process. Filter 1 assessed whether a proposed alternative could meet the project purpose and most
  of the project objectives. Alternatives that met two or more of the following four Filter 1 criteria
- 44 summarizing the four project objectives were carried forward for screening under Filter 2. Final EIR,

- Volume 1, Appendix 3A, Identification of Water Conveyance Alternatives, describes the following
   Filter 1 criteria in more detail.
- Climate resiliency. Addresses anticipated sea level rise and other reasonably foreseeable
   consequences of climate change and extreme weather events.
- Seismic resiliency. Minimizes health and safety risk to public from earthquake-caused
   reductions in water delivery quality and quantity from the SWP.
- Water supply reliability. Restores and protects the ability of the SWP to deliver water in compliance with regulatory limits and SWP contractual agreements.
- 9 Operational resiliency. Provides operational flexibility to improve aquatic conditions and
   10 manage future regulatory constraints.
- Filter 2 examined whether the remaining alternatives would avoid or lessen potential significant
   environmental impacts compared to the proposed project options identified in the NOP.
- 13 Of the 21 potential alternatives to the proposed project (identified in the NOP as Alternatives 1 and 14 3) that were evaluated as part of the screening process, 11 alternatives or groups were eliminated in 15 Filter 1 (Final EIR, Volume 1, Appendix 3A, Identification of Water Conveyance Alternatives, Table 3A-16 2). The remaining alternatives were screened through Filter 2 to evaluate whether they had the 17 potential to lessen environmental impacts compared to the two project options (Alternatives 1 and 18 3) identified in the NOP (Final EIR, Volume 1, Appendix 3A, Identification of Water Conveyance 19 Alternatives, Table 3A-3). Only the Dual Conveyance Bethany Alignment alternative passed Filter 2 20 screening for its potential to avoid or reduce impacts compared to the proposed project identified in 21 the NOP (Alternatives 1 and 3). To evaluate the potential for modifications to the capacity of the 22 project options identified in the NOP to potentially avoid or reduce impacts, alternatives with 23 capacities of 3,000 cfs (Alternatives 2b and 4b), 4,500 cfs (Alternatives 2c and 4c), and 7,500 cfs 24 (Alternatives 2a and 4a) were also carried forward for analysis in the EIR. As a result, including the 25 No Project alternative, the EIR evaluates ten proposed alternatives to the Project.

## 26 5.3.2 Release of, and Comments on, the Draft EIR

The Draft EIR for the Project was released for public review and comment on July 27, 2022. The
public comment period for the Draft EIR was originally set for 92 days and scheduled to close on
October 27, 2022. In response to requests from multiple commenters, DWR granted a 50-day
extension to the public comment period, which closed at 5:00 p.m. Pacific Standard Time on
December 16, 2022. The extension allowed a public comment period totaling 142 days.

- DWR conducted three public hearings on September 13, September 22, and September 28, 2022,
   during different times of the day, during which DWR accepted verbal comments on the Draft EIR. In
   addition, DWR held two Tribal representatives meetings, on October 12 and December 7, 2022, for
   Tribal leadership, Tribal government representatives, and Tribal communities to provide verbal
   comments on the Draft EIR.
- 37 DWR received approximately 675 unique letters and communications from federal, state, and
- 38 local/regional agencies; California Native American Tribal governments; elected officials;
- 39 nongovernmental organizations; and members of the public. After reviewing letters and
- 40 communications, DWR identified approximately 7,356 discrete comments.

- 1 The comments covered a broad range of environmental concerns and other issues. Major topic areas
- 2 that elicited frequent comments included but were not limited to: the CEQA process, mitigation
- 3 measures, and other project requirements; engagement with interested parties and the public
- 4 outreach process; alternatives development, range and description, including alternative
- 5 operations; implementation considerations; surface water quality and groundwater methodologies
- and impacts; fish and aquatic resources methodology and impacts; terrestrial biological resources
   methodology and impacts; Tribal cultural resources impacts; and air quality methodology and
- 7 methodo8 impacts.

### 9 **5.3.3 Preparation of the Final EIR**

- 10To ensure time for comment letters sent by mail, DWR treated all comment letters received before11January 1, 2023, as timely. As such, all comments received prior to January 1, 2023, are responded to12in Final EIR, Volume 2. Any comments received on or after January 1, 2023, were considered late13letters. While late letters have been reviewed and considered by DWR, DWR did not include late14letters, or responses thereto, in the Final EIR. The responses to comments provided in Final EIR,15Volume 2, represent DWR's best effort to review, consider, and address all timely comments on the16Draft EIR and any supporting information provided by commenters.
- 16 Draft EIR and any supporting information provided by commenters.
- 17 Agency consultation and coordination activities, including Tribal consultation, continued during
- 18 preparation of the Final EIR for the Project. DWR also continued to proactively engage interested
- agencies and the public throughout the CEQA processes including preparing informative websites
- 20 and social media updates.

Chapter 6
Project Specific Findings on the Delta Conveyance
Project Environmental Impacts

4 Within each of the resource area chapters, the Final EIR lays out the significant environmental 5 impacts of the Project. Each such environmental impact has its ultimate CEQA determination, that is, 6 whether it would be less than significant, could be mitigated to a less than significant level through 7 the implementation of proposed mitigation, or significant and unavoidable. Attached to this 8 document as Exhibit A are three Findings Tables. Table 1 identifies significant and unavoidable 9 impacts, Table 2 identifies significant impacts that can be rendered less than significant with 10 mitigation, and Table 3 identifies impacts that are less than significant or no impact before 11 mitigation. Within the tables, the verb "substantially lessen" is understood to mean "mitigate, but 12 not to a less than significant level," while the verb "avoid" is understood to mean "mitigated to a less 13 than significant level." These tables do not attempt to describe the full analysis of each 14 environmental impact contained in the Final EIR. Rather, such full analysis can be found within the 15 Final EIR, which, as noted earlier, is incorporated by reference herein. In making these findings, the 16 Director of DWR ratifies, adopts, and incorporates into these findings the analysis and explanation in 17 the Final EIR, and ratifies, adopts, and incorporates in these findings the determinations and 18 conclusions of those documents relating to environmental impacts and mitigation measures, except 19 to the extent any such determinations and conclusions are specifically and expressly modified by 20 Exhibit A to these Findings.

21As noted above, all of the mitigation measures proposed in the Final EIR have been adopted and22incorporated into the enforceable MMRP for the Project. (See Pub. Resources Code, § 21081.6,23subds. (a)(1) and (b).) So too have both the generic and project-specific environmental24commitments, and BMPs set forth in Final EIR, Volume 1, Appendix 3B, Environmental Commitments25and Best Management Practices. No mitigation measures identified in the Final EIR have been26rejected as infeasible as is permitted under CEQA Guidelines section 15091, subdivisions (a)(3) and27(c).

# 28 6.1 Potentially Significant and Unavoidable Impacts

Mitigation measures are identified for most of the significant and unavoidable impacts, but the
 measures are not sufficient to reduce the impacts to less than significant levels. For one significant
 and unavoidable impact (Impact PALEO-2), there is no feasible mitigation available at all.

32 Other potential impacts are considered to be significant and unavoidable even though full 33 implementation of recommended mitigation measures by other agencies or in cooperation with 34 DWR would reduce the impacts to less than significant levels. This conservative characterization 35 reflects the fact that several of these mitigation measures cannot be implemented by DWR by itself, 36 but will be dependent on the reasonable cooperation of other agencies or entities. As explained in 37 the Final EIR, if such cooperation is forthcoming, and DWR can work successfully with the other 38 agencies or entities in question (e.g., by reaching written agreements where necessary), the impacts 39 will ultimately be less than significant. But DWR has conservatively concluded in the EIR that these 40 impacts will be significant and unavoidable.

Within Exhibit A to this document, Table 1 includes (1) all potentially significant and unavoidable impacts associated with the Project, (2) adopted feasible mitigation measures or environmental commitments, if available, intended to reduce the severity of such impacts, (3) characterization of significance of the impact after the adoption of appropriate mitigation measures or environmental commitments, if any, and (4) explanations of the nature of the impacts and the effectiveness of mitigation measures or environmental commitments.

7 Even though the impacts in Table 1 will remain significant and unavoidable, DWR has determined to 8 approve the Project because the Project's benefits outweigh its significant unavoidable 9 environmental impacts. CEOA provides that, where a proposed project would cause significant 10 environmental impacts that cannot be avoided or substantially lessened, a public agency's decision 11 maker, after adopting proper findings, may nevertheless approve the project if the decision maker 12 first adopts a statement of overriding considerations. This latter document must set forth the 13 specific reasons why the agency decision maker finds the project's benefits outweigh its significant 14 unavoidable environmental impacts. The statement of overriding considerations for the Project is 15 included in these Findings in Chapter 8, Statement of Overriding Considerations, below.

# 6.2 Potentially Significant Impacts Reduced to Less than Significant

18 As noted above, Table 2 within Exhibit A identifies significant impacts that can be reduced to less 19 than significant levels through the adoption and implementation of feasible mitigation measures or 20 environmental commitments. Table 2 includes: (1) all potentially significant impacts associated with 21 the Project, (2) adopted mitigation measures or environmental commitments that DWR finds would 22 avoid or substantially lessen such significant environmental impacts, (3) characterization of less 23 than significance of the impact after the adoption of mitigation measures or environmental 24 commitments, and (4) explanations of the nature of the impacts and the effectiveness of mitigation 25 measures or environmental commitments.

# 6.3 Impacts that are Less than Significant or No Impact

Under CEQA, no mitigation measures are required for impacts that are less than significant. (Pub.
Resources Code, § 21002; CEQA Guidelines, §§ 15126.4, subd. (a)(3), 15091.) Based on substantial
evidence in the whole record of this proceeding, DWR finds that implementation of the Project will
not result in any significant impacts to the impact areas identified in Table 3 within Exhibit A and
that these impact areas, therefore, do not require mitigation. In some instances, the Project would
have no impact in a particular area; these instances are noted in the table.

# **7.1** Basis for Alternatives-Feasibility Analysis

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4 California Public Resources Code section 21002 provides that "public agencies should not approve 5 projects as proposed if there are feasible alternatives or feasible mitigation measures available 6 which would substantially lessen the significant environmental effects of such projects[.]" Where a 7 lead agency has determined that, even after the adoption of all feasible mitigation measures, a 8 project as proposed will still cause one or more significant environmental effects that cannot be 9 substantially lessened or avoided, the agency, prior to approving the project as mitigated, must first 10 determine whether, with respect to such impacts, there remain any project alternatives that are 11 both (1) environmentally superior with respect to such significant, unavoidable effects and (2) 12 feasible within the meaning of CEQA.

13 Under CEQA Guidelines section 15126.6, the alternatives to be discussed in detail in an EIR should be able to "feasibly attain most of the basic objectives of the project." (See also In re Bay-Delta 14 15 Programmatic Environmental Impact Report Coordinated Proceedings (2008) 43 Cal.4th 1143, 1165-16 1166 ["[i]n the CALFED program, feasibility is strongly linked to achievement of each of the primary 17 program objectives [¶] ... [¶] a lead agency may structure its EIR alternative analysis around a 18 reasonable definition of underlying purpose and need not study alternatives that cannot achieve 19 that basic goal"].) For this reason, the project objectives described earlier in these Findings provided 20 part of the policy framework by which DWR developed the alternatives analyzed in the EIR. In 21 analyzing such alternatives in detail in the EIR, DWR took these objectives into account, while at the 22 same time focusing on means of substantially lessening or avoiding significant environmental effects 23 as required under CEQA.

24 The approach taken by DWR is consistent with the approach taken for other water conveyance 25 projects in California as illustrated in the decision by the Second Appellate District in California 26 Water Impact Network v. City of San Buenaventura (Jan. 4, 2023, Cal. Ct. App., B315362 [nonpub. 27 opn.]) (CWIN). In CWIN, the City of Buenaventura (City) proposed and prepared an EIR for a seven-28 mile-long pipeline project to receive its contractual right to water from the SWP. (Id. at p. \*1.) At the 29 same time that the City was pursuing the pipeline project to connect to the SWP, the City was also 30 pursuing and preparing an EIR for a separate project to increase local water sources including 31 wastewater and groundwater treatment. (*Ibid.*) The purpose of the local water project was to 32 increase the City's overall water supply. (Ibid.)

33 Petitioner argued the City piecemealed environmental review by preparing a separate EIR for the 34 local water supply project and/or that the pipeline project had to include alternatives evaluating 35 local water supply options. (CWIN, supra, at pp. \*2, \*4.) The court rejected both arguments. First, as 36 to the piecemealing claim, the court acknowledged that both the pipeline project and the proposed 37 local water supply project concerned the City's water supply. (*Id.* at p. \*3.) However, the court held 38 that the projects had independent utility because the projects involved "different source[s] of water, 39 different infrastructure, and neither project [was] dependent on the completion of the other." (Ibid.) 40 Second, the court concluded that the pipeline project EIR did not require local water supply

alternatives because a basic goal of the project was to "bring SWP water to the City... [and] [l]ocal
 water supply cannot meet the basic goal of bringing SWP water to the City." (*Id.* at p. \*4.)

3 Of relevance to the Delta Conveyance Project, the petitioner in *CWIN* alleged that the project 4 objectives were too narrow because one objective was to receive the City's SWP entitlements, which 5 made "dependence on SWP water a fait accompli." (See CWIN, supra, at p. \*3.) Petitioner asserted 6 that the project objectives should have been drafted to more generally address the City's water 7 supply and water quality needs and a narrow objective to receive SWP entitlements was improper. 8 (Ibid.) The court rejected the petitioner's argument. Citing San Diego Citizenry Group v. County of San 9 Diego (2013) 219 Cal.App.4th 1, 14, the court held that "CEQA does not restrict an agency's 10 discretion to identify and pursue a particular project designed to meet a particular set of objectives. 11 [Citation.] Thus, the City's stated objectives are valid even if it means dependence on the SWP is a

12 fait accompli." (*CWIN*, supra, at p. \*3.)

13 Similar to the City's objective in CWIN to pursue a project to receive SWP water, DWR is pursuing a 14 project to restore and protect the reliability of SWP water deliveries. This fundamental purpose of 15 the Project necessarily cannot be achieved by pursuing local water supply projects in other areas of 16 the State or by projects that otherwise do not address the existing threats to SWP's reliability (e.g., 17 sea level rise, seismicity, climate change and associated changes in weather patterns, and regulatory 18 constraints). Therefore, the EIR properly focuses on evaluating project alternatives that would, to 19 the extent potentially feasible, restore or protect the reliability of SWP water deliveries in 20 consideration of these existing threats. (See Yerba Buena Neighborhood Consortium, LLC v. Regents of the University of California (2023) 95 Cal.App.5th 779, 712-717 [holding that CEQA did not require 21 22 the Regents to consider an offsite alternative for a new hospital that "would not adequately meet the 23 project's objectives"].)

While the EIR considers project alternatives unrelated to restoring or protecting the reliability of
SWP water deliveries, as addressed in Final EIR, Volume 1, Appendix 3A, *Identification of Water Conveyance Alternatives*, DWR rejected those alternatives as part of the EIR's alternative screening
process because they did not meet most of the basic project objectives. Based on the extensive
alternatives screening process set forth in Final EIR, Volume 1, Appendix 3A, *Identification of Water Conveyance Alternatives*, DWR developed, and addressed in detail, nine (9) alternatives and a No
Project Alternative.

31 Although an EIR must evaluate a reasonable range of *potentially* feasible alternatives, the lead 32 agency decision maker ultimately determines whether such alternatives are *actually* feasible. (See 33 California Native Plant Society v. City of Santa Cruz (2009) 177 Cal.App.4th 957, 981, 999 (CNPS).) 34 "Feasible" is defined in CEQA as "capable of being accomplished in a successful manner within a 35 reasonable period of time, taking into account economic, environmental, social, and technological factors." (Pub. Resources Code, § 21061.1; see CEQA Guidelines, § 15364 [adding "legal" factors].) As 36 37 courts have noted, "[t]he 'feasibility of ... alternatives must be evaluated within the context of the 38 proposed project." (E.g., Sustainability, Parks, Recycling & Wildlife Legal Def. Fund v. San Francisco 39 Bay Conservation & Development Com. (2014) 226 Cal.App.4th 905, 918 [omission in original].)

40 The determination of whether an alternative is actually feasible may be based on several grounds. One

- 41 ground by which decision makers may reject an alternative as infeasible is that the alternative is
- 42 inconsistent with project objectives or does not fully meet such objectives. (In re Bay-Delta
- 43 *Programmatic Environmental Impact Report Coordinated Proceedings* (2008) 43 Cal.4th 1143, 1165-
- 44 1166; *see also CNPS, supra,* 177 Cal.App.4th *at p. 1001 ["[*A]n alternative 'may be found infeasible on

1 the ground it is inconsistent with the project objectives as long as the finding is supported by 2 substantial evidence in the record.""]; Save Panoche Valley v. San Benito County (2013) 217 3 Cal.App.4th 503, 521-523; Citizens for Open Government v. City of Lodi (2012) 205 Cal.App.4th 296, 4 314-315.) Similarly, a decision maker may reject an alternative as infeasible if the decision maker 5 concludes, after a "reasonable balancing of the relevant economic, environmental, social, and 6 technological factors," that the alternative is undesirable from a policy standpoint. (City of Del Mar v. 7 City of San Diego (1982) 133 Cal.App.3d 401, 417 (City of Del Mar); see also Ctr. for Biological 8 Diversity v. California Dep't of Conservation (2019) 36 Cal.App.5th 210, 242; CNPS, supra, 177 9 Cal.App.4th at p. 1001; San Diego Citizenry Group, supra, 219 Cal.App.4th at pp. 17-18.) Thus, under 10 these principles, even if a project alternative would avoid or substantially lessen any or all of the 11 unavoidable significant environmental effects of a proposed project as mitigated, the decision 12 makers may nevertheless reject the alternative for such reasons.

# **7.2** Alternatives Addressed in the EIR

14The nine (9) alternatives analyzed in the Final EIR differ in the location, design, and capacity of15conveyance facilities and improvements. With the exception of the CEQA No Project Alternative,16each of the alternatives selected for detailed evaluation in the EIR involves some level of17construction of conveyance facilities/improvements to the SWP. The following alternatives, as18described in detail in Final EIR, Volume 1, Chapter 3, Description of the Proposed Project and19Alternatives, were carried forward for detailed analysis in the Final EIR.

- 20 Alternatives (introduced in the Draft EIR):
- Alternative 1—Central Alignment, 6,000 cfs, Intakes B and C
- Alternative 2a—Central Alignment, 7,500 cfs, Intakes A, B, and C
- Alternative 2b—Central Alignment, 3,000 cfs, Intake C
- Alternative 2c—Central Alignment, 4,500 cfs, Intakes B and C
- Alternative 3—Eastern Alignment, 6,000 cfs, Intakes B and C
- Alternative 4a—Eastern Alignment, 7,500 cfs, Intakes A, B, and C
- Alternative 4b—Eastern Alignment, 3,000 cfs, Intake C
- Alternative 4c—Eastern Alignment, 4,500 cfs, Intakes B and C
- Alternative 5—Bethany Reservoir Alignment, 6,000 cfs, Intakes B and C (Project)

# **30 7.3 Summary Comparison**

This summary comparison of significant and unavoidable impacts describes the severity and magnitude of the project alternatives relative to the Project. The comparison focuses on two factors: the number of relative impacts for each category (i.e., the number of impacts with a severity greater than, equal to, or less than the Project) and the drivers for the differences in severity. The number of impacts is used as a point of comparison because CEQA does not treat any category of environmental effect as being more important than any other category and the comparison of numbers provides an overall picture of the differences between the project alternatives and the

- Project. The drivers are used in the comparison because they illuminate the fundamental differences
   between the impacts of the Project and those of the project alternatives.
- 3 The primary drivers that provide insights into the differences between alternatives are the number

4 of intakes, the alignment, the length and diameter of the tunnel, the location of project facilities

- relative to sensitive receptors, and the presence or absence of the Southern Complex. Each of these
   drivers (except location relative to sensitive receptors) affects the amount of ground disturbance
- associated with the alternative and the size of launch shaft sites, including amount and locations of
   rausable tunnel material (RTM) stackpiles
- 8 reusable tunnel material (RTM) stockpiles.
- 9 Table 2 below provides an overview of the differences in the number and severity of significant and 10 unavoidable impacts relative to the proposed project and drivers for those differences. Table 3 11 below compares in more detail the severity and magnitude of the significant and unavoidable 12 impacts of the project alternatives to the Project. The finding of significant and unavoidable is the 13 same across all alternatives (except for Impact AQ-6, which has a significant and unavoidable finding 14 only for Alternatives 2a and 4a), but the severity and magnitude of the impacts may differ by 15 alternative. Where quantitative data are available to compare alternatives and define the magnitude 16 of the impact, Table 3 below provides summary data, their unit of measure, and their source.
- As shown in Tables 2 and 3 below, for five impacts, the Project has a lesser severity than all or most
  project alternatives because it would:
- Include only two intakes and no Southern Complex and would therefore affect fewer acres of important farmland (Impact AG-1).
- Not include the Bouldin Island launch and reception shaft, the Southern Complex on Byron
   Tract, or the Southern Complex west of Byron Highway and therefore would have lesser impacts
   on visual quality of public views (Impact AES-1) and scenic vistas (Impact AES-3). In addition,
   the Bethany Reservoir would be constructed in a location with existing water infrastructure and
   other facilities.
- Have an alignment that would affect fewer identified built-environment historical resources
   (Impact CUL-1) and archaeological resources (Impact CUL-3).
- For those impacts for which the severity of all project alternatives is the same as the Project
  (Impacts CUL-2, CUL-4, CUL-5 and Impacts TCR-1 and TCR-2), the impacts were of a type that
  cannot be quantified because resources have not been inventoried or are important for reasons that
  cannot be quantified, including cultural heritage.
- For Impact TRANS-1, an equal number of project alternatives had per employee vehicle miles traveled (VMT) greater than and less than the Project. The number of employees, and thus number of vehicle trips generated during construction, is influenced by the duration and intensity of construction, which differs among the alternatives. The location of the alignment also influences VMT, with features constructed in more rural locations requiring longer employee vehicle trips, and thus generating more VMT, than features proximate to urban areas.
- As shown in Tables 2 and 3 below, for two impacts (Impact AG-2 and Impact PALEO-2), the Project
  has a greater severity than all or most project alternatives because it would:
- Have an alignment that would intersect with more acres of Williamson Act and Farmland
   Security Zone acres and therefore result in the conversion of more acres when compared to
   project alternatives.

Have a longer tunnel alignment in geologic units with high sensitivity for paleontological resources and therefore have greater potential to disturb paleontological resources when compared to project alternatives.

The single impact for which the Project had a more severe impact than all but one of the project
alternatives was related to the number of receptors who would be affected by an increase in
ambient noise levels (Impact NOI-1). However, if improvements required to avoid significant
impacts are accepted by all eligible property owners, impacts would be less than significant with
mitigation.

- 9 A summarized comparison in Table 2 below of the multiple pollutants analyzed in Impact AQ-5 10 across multiple air districts and timeframes would not accurately reflect the differences for each of 11 those factors. For example, while Alternatives 2a and 4a would generally result in higher 12 concentrations of combustion pollutants, fugitive dust concentrations in the San Joaquin Valley Air 13 Pollution Control District (SJVAPCD) under Alternative 5 would be higher than most other 14 alternatives. This is because under Alternative 5, two launch shafts would be constructed at Lower 15 Roberts Island, effectively doubling the amount of earthmoving and vehicles traveling on unpaved 16 surfaces at this location, compared to all other proposed alternatives. Therefore, more detail is
- 17 provided regarding Impact AQ-5 in Table 3 below.

# Table 2. Overview of the Differences in the Number and Severity of Significant and Unavoidable Impacts Relative to the Project and the Drivers for Those Differences

Impact(s)	Number of Alternatives with Impact Severity Greater or Equal to the Project	Project Drivers
CUL-2, CUL-4, CUL-5, TCR-1, and TCR-2	All Project Alternatives = Project	• Severity cannot be distinguished because of uninventoried resources or resources that are important for reasons that cannot be quantified, including cultural heritage
AG-1, AES-1, AES-3, and CUL-3	All 8 Project Alternatives > Project	<ul> <li>Absence of Southern Complex</li> <li>Absence of Bouldin Island launch and reception shaft, Southern Complex on Byron Tract, or Southern Complex</li> </ul>
AES-2, AG-2, and AQ-6	2 Project Alternatives > Project	
CUL-1	5 Project Alternatives > Project	<ul> <li>west of Byron Highway</li> <li>Presence of existing water infrastructure at Bethany Complex</li> <li>Fewer intakes visible from State Route 160</li> <li>Fewer cultural resources in project footprint</li> <li>Absence of Intake A</li> </ul>
TRANS-1	4 Project Alternatives > Project	<ul> <li>Duration and intensity of construction</li> <li>Location of the alignment (e.g., rural locations requiring longer employee vehicle trips)</li> </ul>
PALEO-2	3 Project Alternatives > Project	• Longer tunnel alignment requiring more disturbance of geologic with high sensitivity for paleontological resources
NOI-1	0 Project Alternatives > Project	Construction near greater number of sensitive noise receptors

3 4

Note: Impact AQ-5 is not included in this table because of the complexity of comparing multiple pollutants,

timeframes, and air districts across multiple alternatives.

#### 1 Table 3. Comparison of Significant and Unavoidable Impacts of Project Alternatives Relative to the Project (P)

Potential Impact (includes units of measure when applicable)	Project Alternative 5, Bethany Reservoir Alignment, 6,000 cfs, Intakes B and C	Alternative 1, Central Alignment, 6,000 cfs, Intakes B and C	Alternative 2a, Central Alignment, 7,500 cfs, Intakes A, B, and C	Alternative 2b, Central Alignment, 3,000 cfs, Intake C	Alternative 2c, Central Alignment, 4,500 cfs, Intakes B and C	Alternative 3, Eastern Alignment, 6,000 cfs, Intakes B and C	Alternative 4a, Eastern Alignment, 7,500 cfs, Intakes A, B, and C	Alternative 4b, Eastern Alignment, 3,000 cfs, Intake C	Alternative 4c, Eastern Alignment 4,500 cfs, Intakes I and C
Impact AG-1: Convert a Substantial Amount of Prime Farmland, Unique Farmland, Farmland of Local Importance, or Farmland of Statewide Importance as a Result of Construction of Water Conveyance Facilities (total acres) (Construction)	SU 2,340	Greater than P 3,793.5	Greater than P 4,124.40	Greater than P 3,308.50	Greater than P 3,661.80	Greater than P 3,464.70	Greater than P 3,819.50	Greater than P 2,943.70	Greater than P 3,318.30
Impact AG-2: Convert a Substantial Amount of Land Subject to Williamson Act Contract or under Contract in Farmland Security Zones to a Nonagricultural Use as a Result of Construction of Water Conveyance Facilities (acres converted) (Construction)	SU 1,217.80	Less than P 1,042.30	Greater than P 1,253.60	Less than P 881.30	Less than P 950.60	Less than P 1,142.50	Greater than P 1,355.20	Less than P 982.00	Less than P 1,051.20
Impact AES-1: Substantially Degrade the Existing Visual Character or Quality of Public Views (from Publicly Accessible Vantage Points) of the Construction Sites and Visible Permanent Facilities and Their Surroundings in Nonurbanized Areas (Construction and O&M)	SU	Greater than P	Greater than P	Greater than P	Greater than P	Greater than P	Greater than P	Greater than P	Greater than P
Impact AES-2: Substantially Damage Scenic Resources including, but Not Limited to, Trees, Rock Outcroppings, and Historic Buildings Visible from a State Scenic Highway (number of intakes) (Construction)	SU 2	Equal to P 2	Greater than P 3	Less than P 1	Equal to P 2	Equal to P 2	Greater than P 3	Less than P 1	Equal to P 2
Impact AES-3: Have Substantial Significant Impacts on Scenic Vistas (Construction and O&M)	SU	Greater than P	Greater than P	Greater than P	Greater than P	Greater than P	Greater than P	Greater than P	Greater than P
Impact AQ-5: Result in Exposure of Sensitive Receptors to Substantial Localized Criteria Pollutant Emissions (PM10) (highest project-level concentration in excess of the significant impact level [µg/m <sup>3</sup> ] across all timeframes [24-hour, annual] and standards [CAAQS, NAAQS]) (Construction)	SU (SMAQMD, 10)	Equal to P (SMAQMD, 10)	Greater than P (SMAQMD, 13)	Less than P (SMAQMD, 9)	Less than P (SMAQMD, 9)	Greater than P (SMAQMD, 12)	Greater than P (SMAQMD, 13)	Less than P (SMAQMD, 9)	Greater than P (SMAQMD, 9)
	(SJVAPCD, 111)	Less than P (SJVAPCD, 50)	Less than P (SJVAPCD, 55)	Less than P (SJVAPCD, 37)	Less than P (SJVAPCD, 45)	Equal to P (SJVAPCD, 111)	Equal to P (SJVAPCD, 111)	Less than P (SJVAPCD, 109)	Less than P (SJVAPCD, 110)
	(BAAQMD, 22)	Greater than P (BAAQMD, 94)	Greater than P (BAAQMD, 94)	Greater than P (BAAQMD, 94)	Greater than P (BAAQMD, 94)	Greater than P (BAAQMD, 94)	Greater than P (BAAQMD, 94)	Greater than P (BAAQMD, 94)	Greater than P (BAAQMD, 94)
Impact AQ-5: Result in Exposure of Sensitive Receptors to Substantial Localized Criteria Pollutant Emissions (PM2.5) (highest project-level concentration in excess of the significant impact level [µg/m <sup>3</sup> ] across all timeframes [24-hour, annual] and standards [CAAQS, NAAQS]) (Construction)	SU (SMAQMD, 1.0)	Greater than P (SMAQMD, 1.4)	Greater than P (SMAQMD, 1.3)	Greater than P (SMAQMD, 1.3)	Less than P (SMAQMD, 0.9)	Greater than P (SMAQMD, 1.5)	Greater than P (SMAQMD, 1.2)	Greater than P (SMAQMD, 1.3)	Less than P (SMAQMD, 0.9)
	(SJVAPCD, 9.3)	Less than P (SJVAPCD, 2.8)	Less than P (SJVAPCD, 2.7)	Less than P (SJVAPCD, 2.5)	Less than P (SJVAPCD, 2.3)	Equal to P (SJVAPCD, 9.3)	Equal to P (SJVAPCD, 9.3)	Equal to P (SJVAPCD, 9.3) Greater than P	Equal to P (SJVAPCD, 9.3)
	(BAAQMD, 1.5)	Greater than P (BAAQMD, 8.6)	Greater than P (BAAQMD, 8.6)	Greater than P (BAAQMD, 8.6)	Greater than P (BAAQMD, 8.6)	Greater than P (BAAQMD, 8.6)	Greater than P (BAAQMD, 8.6)	(BAAQMD, 8.6)	Greater than P (BAAQMD, 8.6)

Potential Impact (includes units of measure when applicable)	Project Alternative 5, Bethany Reservoir Alignment, 6,000 cfs, Intakes B and C	Alternative 1, Central Alignment, 6,000 cfs, Intakes B and C	Alternative 2a, Central Alignment, 7,500 cfs, Intakes A, B, and C		Alternative 2c, Central Alignment, 4,500 cfs, Intakes B and C	Alternative 3, Eastern Alignment, 6,000 cfs, Intakes B and C	Alternative 4a, Eastern Alignment, 7,500 cfs, Intakes A, B, and C		Alternative 4c, Eastern Alignment, 4,500 cfs, Intakes E and C
Impact AQ-5: Result in Exposure of Sensitive Receptors to Substantial Localized Criteria Pollutant Emissions (total 1- hour NO <sub>2</sub> , NAAQS [µg/m <sup>3</sup> ]) (Construction)	SU (SJVAPCD) LTS (SMAQMD, BAAQMD)	SU (SJVAPCD) LTS (SMAQMD, BAAQMD)	SU (SJVAPCD) LTS (SMAQMD, BAAQMD)	SU (SJVAPCD) LTS (SMAQMD, BAAQMD)	SU (SJVAPCD) LTS (SMAQMD, BAAQMD)	LTS (SJVAPCD, SMAQMD, BAAQMD)	LTS (SJVAPCD, SMAQMD, BAAQMD)	LTS (SJVAPCD, SMAQMD, BAAQMD)	LTS (SJVAPCD, SMAQMD, BAAQMD)
	(SMAQMD, 134)	Less than P (SMAQMD, 133)	Greater than P (SMAQMD, 184)	Greater than P (SMAQMD, 143)	Less than P (SMAQMD, 133)	Less than P (SMAQMD, 133)	Greater than P (SMAQMD, 184)	Greater than P (SMAQMD, 143)	Less than P (SMAQMD, 133)
	(SJVAPCD, 218)	Greater than P (SJVAPCD, 243)	Greater than P (SJVAPCD, 243)	Greater than P (SJVAPCD, 243)	Greater than P (SJVAPCD, 243)	Less than P (SJVAPCD, 186)	Less than P (SJVAPCD, 186)	Less than P (SJVAPCD, 186)	Less than P (SJVAPCD, 186)
	(BAAQMD, 76)	Greater than P (BAAQMD, 80)	Greater than PP (BAAQMD, 80)	Greater than P (BAAQMD, 80)	Greater than P (BAAQMD, 80)	Greater than P (BAAQMD, 80)	Greater than P (BAAQMD, 80)	Greater than P (BAAQMD, 80)	Greater than P (BAAQMD, 80)
Impact AQ-6: Result in Exposure of Sensitive Receptors to Substantial Toxic Air Contaminant Emissions (maximum modeled excess cancer [potential cases per million] by air	LTS	LTS	SU	LTS	LTS	LTS	SU	LTS	LTS
district) (Construction)	(SMAQMD, 7)	Less than P (SMAQMD, 6)	Greater than P (SMAQMD, 16)	Less than P (SMAQMD, 4)	Less than P (SMAQMD, 2)	Less than P (SMAQMD, 6)	Greater than P (SMAQMD, 16)	Less than P (SMAQMD, 4)	Less than P (SMAQMD, 6)
	(SJVAPCD, 5)	Less than P (SJVAPCD, 2)	Less than P (SJVAPCD, 2)	Less than P (SJVAPCD, 2)	Greater than P (SJVAPCD, 6)	Less than P (SJVAPCD, 3)	Less than P (SJVAPCD, 3)	Less than P (SJVAPCD, 3)	Less than P (SJVAPCD, 3)
	(BAAQMD, 1)	Equal to P (BAAQMD, 1)	Greater than P (BAAQMD, 2)	Equal to P (BAAQMD, 1)	Equal to P (BAAQMD, 1)	Equal to P (BAAQMD, 1)	Greater than P (BAAQMD, 2)	Equal to P (BAAQMD, 1)	Equal to P (BAAQMD, 1)
	(YSAQMD, 1)	Equal to P (YSAQMD, 1)	Equal to P (YSAQMD, 1)	Equal to P (YSAQMD, 1)	Equal to P (YSAQMD, 1)	Equal to P (YSAQMD, 1)	Equal to P (YSAQMD, 1)	Equal to P (YSAQMD, 1)	Equal to P (YSAQMD, 1)

Impact CUL-1: Impacts on Built-Environment Historical Resources Resulting from Construction and Operation of the Project (number of resources) (Construction and O&M)	SU 6	Greater than P 10	Greater than P 13	Greater than P 8	Greater than P 10	Equal to P 6	Greater than P 9	Less than P 4	Equal to P 6
Impact CUL-2: Impacts on Unidentified and Unevaluated Built- Environment Historical Resources Resulting from Construction and Operation of the Project (number of resources) (Construction and O&M)	SU 88	Equal to P	Equal to P	Equal to P	Equal to P	Equal to P	Equal to P	Equal to P	Equal to P
Impact CUL-3: Impacts on Identified Archaeological Resources Resulting from the Project (number of resources)	SU	Greater than P	Greater than P	Greater than P	Greater than P	Greater than P	Greater than P	Greater than P	Greater than P
(Construction)	8	25	26	22	23	15	17	13	15
Impact CUL-4: Impacts on Unidentified Archaeological Resources That May Be Encountered in the Course of the Project (Construction)	SU	Equal to P	Equal to P	Equal to P	Equal to P	Equal to P	Equal to P	Equal to P	Equal to P

1

Potential Impact (includes units of measure when applicable)	Project Alternative 5, Bethany Reservoir Alignment, 6,000 cfs, Intakes B and C	Alternative 1, Central Alignment, 6,000 cfs, Intakes B and C	Alternative 2a, Central Alignment, 7,500 cfs, Intakes A, B, and C	Alternative 2b, Central Alignment, 3,000 cfs, Intake C	Alternative 2c, Central Alignment, 4,500 cfs, Intakes B and C	Alternative 3, Eastern Alignment, 6,000 cfs, Intakes B and C	Alternative 4a, Eastern Alignment, 7,500 cfs, Intakes A, B, and C	Alternative 4b, Eastern Alignment, 3,000 cfs, Intake C	Alternative 4c, Eastern Alignment, 4,500 cfs, Intakes B and C
Impact CUL-5: Impacts on Buried Human Remains (Construction)	SU	Equal to P	Equal to P	Equal to P	Equal to P	Equal to P	Equal to P	Equal to P	Equal to P
Impact NOI-1: Generate a Substantial Temporary or Permanent Increase in Ambient Noise Levels in the Vicinity of the Project in Excess of Standards Established in the Local General Plan or Noise Ordinance, or Applicable Standards of Other Agencies (number of receptors) (Construction)	SU* 408	Less than P 316	Less than P 361	Less than P 74	Less than P 316	Less than P 363	Equal to P 408	Less than P 121	Less than P 363
Impact PALEO-2: Cause Destruction of a Unique Paleontological Resource as a Result of Tunnel Construction and Ground Improvement (million loose cubic yards as a result of tunneling) (Construction)	SU 14.4	Less than P 13.9	Greater than P 18.4	Less than P 7.5	Less than P 10.7	Greater than P 14.8	Greater than P 19.5	Less than P 7.9	Less than P 11.3
Impact TCR-1: Impacts on the Delta Tribal Cultural Landscape Tribal Cultural Resource Resulting from Construction, Operations, and Maintenance of the Project Alternatives (Construction and O&M)	SU	Equal to P	Equal to P	Equal to P	Equal to P	Equal to P	Equal to P	Equal to P	Equal to P
Impact TCR-2: Impacts on Individual Tribal Cultural Resources Resulting from Construction, Operations, and Maintenance of the Project Alternatives (Construction and O&M)	SU	Equal to P	Equal to P	Equal to P	Equal to P	Equal to P	Equal to P	Equal to P	Equal to P
Impact TRANS-1: Increased Average VMT Per Construction Employee versus Regional Average (average VMT per construction employee) (Construction)	SU 25.77	Less than P 25.68	Greater than P 25.82	Greater than P 27.02	Less than P 24.91	Less than P 24.38	Greater than P 26.33	Greater than P 27.57	Less than P 25.06

µg/m<sup>3</sup> = micrograms per cubic meter; BAAQMD = Bay Area Air Quality Management District; CAAQS = California ambient air quality standards; cfs = cubic feet per second; HI = hazard index; LTS = less than significant; NAAQS = national ambient air quality standards; NO<sub>2</sub> = nitrogen

2 dioxide; NO<sub>x</sub> = nitrogen oxides; O&M = operation and management; PM2.5 = particulate matter 2.5 microns in diameter or less; PM10 = particulate matter 10 microns in diameter or less; P = project; SJVAPCD = San Joaquin Valley Air Pollution Control District; SMAQMD = 3

Sacramento Metropolitan Air Quality Management District; SU = significant and unavoidable; VMT = vehicle miles traveled; YSAQMD = Yolo-Solano Air Quality Management District. The metrics reported in this table are for project alternatives only without implementation of the

4 Compensatory Mitigation Plan (CMP) because as disclosed in the EIR the impacts associated with the CMP would be the same across all alternatives.

#### **7.4 Environmentally Superior Alternative**

CEQA Guidelines section 15126.6 requires that each EIR identify the "environmentally superior
alternative" among those considered. If the No Project Alternative is identified as environmentally
superior, then the EIR must also identify the environmentally superior alternative among the other
alternatives. (CEQA Guidelines, § 15126.6, subd. (e)(2).)

As discussed in the Final EIR, the No Project Alternative would not result in the construction or
operational related impacts discussed for the project alternatives but could result in impacts within
the SWP service area and within the Delta that would not occur under the project alternatives.

9 The Project would, overall, result in less severe environmental impacts than the proposed project 10 options identified in the NOP as well as the other alternatives analyzed in the EIR. Therefore, the 11 Project is considered the environmentally superior alternative because it would reduce the severity 12 of adverse environmental effects across a broad range of environmental resources and would not 13 result in any significant and unavoidable environmental impacts that could be avoided by other 14 feasible alternatives evaluated in the EIR.

The following discussion describes what DWR regards as the environmental pros and cons among
the various project alternatives analyzed in the Final EIR by synthesizing the analysis of several of
the environmental impacts discussed in Chapters 7 through 32 of the Final EIR, Volume 1.

- As described in Chapter 2, *Purpose and Project Objectives*, the project alternatives evaluated in the
   Final EIR have the following objectives.
- To help address anticipated rising sea levels and other reasonably foreseeable consequences of
   climate change and extreme weather events.
- To minimize the potential for public health and safety impacts from reduced quantity and quality of SWP water deliveries, and potentially CVP water deliveries, south of the Delta as a result of a major earthquake that could cause breaching of Delta levees and the inundation of brackish water into the areas where existing SWP and CVP pumping plants operate in the southern Delta.
- To protect the ability of the SWP, and potentially the CVP, to deliver water when hydrologic
   conditions result in the availability of sufficient amounts of water, consistent with the
   requirements of state and federal law, including the ESA, CESA and Delta Reform Act, as well as
   the terms and conditions of water delivery contracts and other existing applicable agreements.
- To provide operational flexibility to improve aquatic conditions in the Delta and better manage
   risks of further regulatory constraints on project operations.
- The project alternatives would reduce reliance on diversion from the existing south Delta pumps.
  Diversions at the project's north Delta facilities would pass through state-of-the-art fish screens.
  Dual conveyance would provide operational flexibility that could reduce impacts of the SWP on
  aquatic species by, among other things, allowing operators to divert water at times and places—in
  either the north or the south—that protect those species at sensitive life stages.
- 38 Each project alternative involves a different set of environmental benefits and impacts. For example,
- 39 the number of north Delta intakes associated with particular alternatives and the alignment of
- 40 project features typically reflects a balance between localized construction-related, visual, and
- 41 footprint-related impacts in the Delta against the system-wide environmental benefits associated

- with improved reliability of SWP deliveries and meeting the project purpose and objectives.
  Alternatives with two intakes would involve fewer localized in-Delta impacts than alternatives with
  three intakes (Alternatives 2a and 4a). Other alternatives with two intakes (Alternatives 1, 2c, 3, 4c,
  and 5) or with one intake (Alternatives 2b and 4b) would similarly reduce localized, in-Delta
  impacts compared to alternatives with three intakes. However, alternatives with one intake
  (Alternatives 2b and 4b) would not have the water supply reliability benefits expected of
  alternatives with two or three intakes (Alternatives 1, 2a, 2c, 3, 4a, 4c, and 5).
- 8 Some of the environmental impacts related to temporary and permanent habitat or agricultural land 9 conversion would be fewer for Alternatives 1, 2b, 2c, 3, 4b, 4c, and 5 than for Alternatives 2a or 4a, 10 which would include three north Delta intakes. Alternatives with three intakes (Alternatives 2a and 11 4a) would result in the greatest number of acres of farmland conversion while alternatives with 12 fewer intakes (Alternatives 1, 2b, 2c, 3, 4b, and 4c) or that would not involve construction of a new 13 Southern Complex (Project) would have fewer acres of farmland conversion. Similarly, alternatives 14 with three intakes (Alternatives 2a and 4a) would cause the greatest amount of conversion of 15 Williamson Act contracted land compared to alternatives with one intake (Alternatives 2b and 4b), 16 which would result in the least amount of conversion of Williamson Act contracted land. Alternative 17 4b would have relatively fewer terrestrial biological impacts, and for some other biological 18 resources, would have the fewest quantified impacts of all alternatives (e.g., valley/foothill riparian, 19 greater and lesser sandhill cranes) primarily due to having only one intake and the associated 20 smaller reusable tunnel material impacts. Because the Project does not require construction of a 21 new Southern Forebay and a new South Delta Pumping Plant, it would affect substantially fewer 22 acres of wetlands compared to all other alternatives. The Project would also have substantially 23 fewer impacts on state and federally regulated aquatic resources compared to the other project 24 alternatives.
- 25 For some environmental resources analyzed, the project alignment and features drive the overall 26 impacts in addition to the number of intakes. For cultural resources, alternatives on the central 27 alignment (Alternatives 1, 2a, 2b, and 2c) affect a greater number of built-environment historical 28 resources than alternatives on the eastern or Bethany Reservoir alignments (Alternatives 3, 4a, 4b, 29 4c, and 5). The central alignment alternatives (Alternatives 1, 2a, 2b, and 2c) would generally result 30 in greater impacts on terrestrial biological resources relative to the eastern alignment alternatives 31 (Alternatives 3, 4a, 4b, and 4c) and the Bethany Reservoir alignment alternative (Project), which is 32 largely due to the improvements on Bouldin Island and road improvements throughout the central 33 alignment. Among all alternatives, the Project would result in the least amount of converted 34 farmland because it does not require construction of a new Southern Complex and Southern 35 Forebay.
- 36 The construction of the Southern Complex for Alternatives 1, 2a, 2b, 2c, 3, 4a, 4b, and 4c is another 37 important variable that contributes to localized impacts. Alternative 2a would result in the greatest 38 impacts on terrestrial biological resources, which would be primarily due to the construction 39 activities on Bouldin Island and the Southern Complex, whereas the Project, which does not require 40 the construction of a forebay, would have the fewest impacts on terrestrial biological resources, 41 wetlands, and waters of the United States. For cultural resources, the Project's Bethany Reservoir 42 alignment would affect the fewest eligible built-environmental historical resources and fewest 43 archaeological sites compared to all other project alternatives because it would not require 44 construction of a new forebay. The Project would result in the fewest acres with land use 45 incompatibilities compared to all other alternatives that require construction of the Southern 46 Forebay at the Southern Complex.

- 1 There could also be some environmental benefits that would occur under all project alternatives
- 2 because of the operational flexibility that would be possible with the north Delta intakes. The
- 3 addition of north Delta intakes to the existing diversion facilities in the south would provide system
- operators the flexibility to divert water from the north or south depending on which is better for
   sensitive fish species at different times of year and under different hydrological conditions. Dual
- 6 conveyance also allows flexibility in water diversions when regulatory restrictions limit the ability
- to divert water from either the north or south, thus enabling the goal of increasing water supply
- 8 reliability.

9 All of the project alternatives would create temporary and permanent changes to the Delta

environment from construction that in most cases would be mitigated to less-than-significant levels,
 although several impacts are considered significant and unavoidable. All of the project alternatives
 would also improve Delta roadways and bridges, and improve water supply infrastructure that is of
 statewide importance.

14 As described above, there are different sets of environmental tradeoffs among the project

15 alternatives. Among the project alternatives evaluated in the Final EIR, the Project, on the Bethany

16 Reservoir alignment, overall lessens impacts in relation to temporary and permanent effects on the

17 Delta environment, including minimizing impacts on wetlands and other waters of the United States,

- agriculture (Impact AG-1), aesthetic (Impacts AES-1 and 3), and cultural and historical resources
   (Impact CUL-3). Therefore, of the project alternatives, the Project is considered the environmentally
- 20 superior alternative.

## 7.5 Infeasibility of Alternatives Other than the Project

CEQA vests the final decision-making authority over a project with the designated lead agency
decision-making body or official, who must act consistently with his or her agency's statutory
function and powers. As the California Supreme Court stated in acknowledging the limits of its own
review function, "[t]he wisdom of approving ... any ... project" is "a delicate task which requires a
balancing of interests," and "is necessarily left to the sound discretion of the [public] officials and
their constituents who are responsible for such decisions." (*Citizens of Goleta Valley v. Board of Supervisors* (1990) 52 Cal.3d 553, 576.)

30 As explained earlier, a decision maker's assessment of the "actual feasibility" of EIR alternatives can 31 involve the "reasonable balancing of the relevant economic, environmental, social, and technological 32 factors" associated with a proposed project. (City of Del Mar, supra, 133 Cal.App.3d at p. 417.) Based 33 on such a balancing process, a decision maker may conclude that an alternative, being "undesirable" 34 from a policy standpoint, is infeasible within the meaning of CEQA. (CNPS, supra, 177 Cal.App.4th at 35 pp. 981, 999, 1001; City of Del Mar, supra, 133 Cal.App.3d at p. 417; San Diego Citizenry Group, supra, 36 219 Cal.App.4th at pp. 17-18; Sustainability, Parks, Recycling & Wildlife Legal Def. Fund v. San 37 Francisco Bay Conservation & Dev. Com. (2014) 226 Cal.App.4th 905, 917-918.) In making such 38 determinations, the decision maker may also consider the extent to which an alternative meets 39 project objectives. (CNPS, supra, 177 Cal.App.4th at p. 1001 ["[A]n alternative 'may be found 40 infeasible on the ground it is inconsistent with the project objectives as long as the finding is 41 supported by substantial evidence in the record.""]; see also Save Panoche Valley, supra, 217 42 Cal.App.4th at pp. 521-523; and *Citizens for Open Government, supra*, 205 Cal.App.4th at pp. 314-

- 1 315.) Under these principles, a decision maker may reject an alternative as infeasible even if the
- alternative would avoid or substantially lessen one or more of the unavoidable significant
  environmental effects of a proposed project as mitigated.
- 4 "CEQA requires the decision-making agency to balance, as applicable, the economic, legal, social,
  5 technological, or other benefits, *including region-wide or statewide environmental benefits*, of a
  6 proposed project against its unavoidable environmental risks when determining whether to
  7 approve the project." (CEQA Guidelines, § 15093, subd. (a), italics added.) Thus, decision makers
  8 often find themselves balancing competing environmental considerations as well as competing
  9 economic and social considerations.
- 10 The Project and its alternatives indeed present all of these categories of competing considerations. 11 DWR, through its Director, has therefore undertaken a deliberative process to balance such 12 competing considerations against each other in light of project objectives and state and federal law. 13 In addition to finding that the Project is the environmentally superior alternative (as discussed 14 above in Section 7.4, Environmentally Superior Alternative), DWR rejects the other alternatives set 15 forth in the EIR, and discussed further below, because the Director finds that there is substantial 16 evidence, including evidence of economic, legal, social, technological, and other considerations 17 described in this section and elsewhere in the record on these proceedings under CEQA Guidelines 18 section 15091, subdivision (a)(3), that make the alternatives infeasible. Set forth below are the 19 Director's conclusions with respect to each of the alternatives considered in the Final EIR.
- 20 As discussed above, the Project is considered the environmentally superior alternative.
- Therefore, the discussion below mainly focuses on infeasibility related to the fundamental purpose
   and objectives and other feasibility or policy considerations.

## 7.5.1 Rejection of Alternative 1: 6,000 cfs Central Alignment with Intakes B and C

#### 25 **7.5.1.1** Fundamental Purpose and Objectives

The extent to which this alternative can achieve the project purpose and objectives is comparable to
the Project because it has the same water conveyance capacity as the Project.

#### 28 **7.5.1.2** Other Feasibility/Policy Considerations

- The Central Alignment's proximity to existing access road infrastructure is less ideal than the
   Eastern and Bethany alignments, which are accessible to Interstate 5. This could make access for
   construction more difficult and construction more laborious than on the Eastern or Bethany
- 32 alignments.
- 33 This alternative includes the construction of a Southern Forebay, which inherently requires more
- 34 construction and results in greater impacts than the Project, which does not require the
- construction of a Southern Forebay. More construction would result in a greater environmental
   footprint and potentially greater local community impacts.
- 37 Through its Director, DWR rejects Alternative 1 on each of the above grounds. The Director finds
- 38 that each of the above reasons is a sufficient independent ground for rejecting Alternative 1 as
- 39 infeasible.

## 7.5.2 Rejection of Alternative 2a: 7,500 cfs Central Alignment with Intakes A-C

#### 3 7.5.2.1 Fundamental Purpose and Objectives

- This alternative would have similar potential to achieve SWP water supply reliability as the Project.
  However, it would have additional benefits for the CVP because it has an additional intake that
- 6 would provide capacity for CVP water deliveries.

#### 7 **7.5.2.2 Other Feasibility/Policy Considerations**

- 8 Unlike the Project, Alternative 2a would have an additional significant and unavoidable impact:
  9 Impact AQ-6, *Result in Exposure of Sensitive Receptors to Substantial Toxic Air Contaminant Emissions.*
- 10 The Central Alignment's proximity to existing access road infrastructure is less ideal than the
- 11 Eastern and Bethany alignments, which are accessible to Interstate 5. This could make access for
- 12 construction more difficult and construction more laborious than on the Eastern or Bethany
- 13 alignments.
- Because this alternative involves the construction of an additional intake, it would result in greater
   impacts. These impacts include a greater environmental footprint and potentially greater local
   community impacts.
- 17 This alternative also includes the construction of a Southern Forebay, which inherently requires
- 18 more construction and results in greater impacts than the Project, which does not require the
- 19 construction of a Southern Forebay. More construction would result in a greater environmental
- 20 footprint and potentially greater local community impacts.
- Through its Director, DWR rejects Alternative 2a on each of the above grounds. The Director finds
  that each of the above reasons is a sufficient independent ground for rejecting Alternative 2a as
  infeasible.

## 7.5.3 Rejection of Alternative 2b: 3,000 cfs Central Alignment with Intake C

#### 26 **7.5.3.1** Fundamental Purpose and Objectives

- This alternative would not achieve the Project's purpose of water supply reliability as effectively as
  the Project because it has one less intake and 3,000 cfs less capacity of water conveyance compared
  to the Project.
- Alternative 2b would be less capable of meeting the Project's objective of addressing anticipated
   rising sea levels and other reasonably foreseeable consequences of climate change and extreme
- weather events. If salinity intrusion were to prevent the use of the existing south Delta pumps,
   Alternative 2b would have less conveyance capacity to be able to provide water supply reliability to
- 34 the SWP when compared to the Project. Additionally, Alternative 2b would be less capable of
- 35 protecting the SWP from future climatic change and mitigating system losses due to changing
- 36 precipitation patterns and seasonal runoff due to climate change, compared to the Project, due to its
- 37 lower maximum capacity. Alternative 2b would have less overall capacity to capture excess flows in

- 1 the system and divert periodic and significant excess flows when southern Delta pumping is
- 2 currently restricted. Therefore, Alternative 2b would also be less capable of protecting the ability of
- 3 the SWP to deliver water when hydrologic conditions result in the availability of sufficient amounts
- 4 of water, compared to the Project.
- In the event of catastrophic levee failures from seismic activities (which could temporarily disrupt
  water supply by ceasing diversions from the SWP's current point of diversion in the south Delta),
  Alternative 2b would be less capable of minimizing the potential for public health and safety impacts
- 8 from reduced quantity and quality of SWP water deliveries south of the Delta, compared to the
- 9 Project, due to its lower maximum capacity.
- Because Alternative 2b has only one intake and a lower maximum capacity, it would also provide
   less operational flexibility to improve aquatic conditions in the Delta for sensitive fish species and
   less operational flexibility to better manage risks of further regulatory constraints on project
   operations.

#### 14 **7.5.3.2** Other Feasibility/Policy Considerations

- The Central Alignment's proximity to existing access road infrastructure is less ideal than the
   Eastern and Bethany alignments, which are accessible to Interstate 5. This could make access for
   construction more difficult and construction more laborious than on the Eastern or Bethany
   alignments.
- 19 This alternative includes the construction of a Southern Forebay, which inherently requires more
- 20 construction and results in greater impacts than the Project, which does not require the
- construction of a Southern Forebay. More construction would result in a greater environmental
   footprint and potentially greater local community impacts.
- Through its Director, DWR rejects Alternative 2b on each of the above grounds. The Director finds
  that each of the above reasons is a sufficient independent ground for rejecting Alternative 2b as
  infeasible.

## 7.5.4 Rejection of Alternative 2c: 4,500 cfs Central Alignment with Intakes B and C

#### 28**7.5.4.1**Fundamental Purpose and Objectives

- This alternative would not achieve the project's purpose of water supply reliability as effectively as
  the Project because it has 1,500 cfs less capacity of water conveyance.
- 31 Alternative 2c would be less capable of meeting the Project's objective of addressing anticipated
- 32 rising sea levels and other reasonably foreseeable consequences of climate change and extreme
- 33 weather events. If salinity intrusion were to prevent the use of the existing south Delta pumps,
- 34 Alternative 2c would have less conveyance capacity to be able to provide water supply reliability to
- 35 the SWP when compared to the Project. Additionally, Alternative 2c would be less capable of
- 36 protecting the SWP from future climatic change and mitigating system losses due to changing
- 37 precipitation patterns and seasonal runoff due to climate change, compared to the Project, due to its
- 38 lower maximum capacity. Alternative 2c would have less overall capacity to capture excess flows in
- 39 the system and divert periodic and significant excess flows when southern Delta pumping is
- 40 currently restricted. Therefore, Alternative 2c would also be less capable of protecting the ability of

- the SWP to deliver water when hydrologic conditions result in the availability of sufficient amounts
   of water, compared to the Project.
- 3 In the event of catastrophic levee failures from seismic activities (which could temporarily disrupt
- water supply by ceasing diversions from the SWP's current point of diversion in the south Delta),
  Alternative 2c would be less capable of minimizing the potential for public health and safety impacts
- from reduced quantity and quality of SWP water deliveries south of the Delta, compared to the
  Project, due to its lower maximum capacity.
- 8 Because Alternative 2c has a lower maximum capacity, it would also provide less operational
- 9 flexibility to improve aquatic conditions in the Delta and less operational flexibility to better manage
- 10 risks of further regulatory constraints on project operations.

#### 11 **7.5.4.2** Other Feasibility/Policy Considerations

- 12 The Central Alignment's proximity to existing access road infrastructure is less ideal than the
- 13 Eastern and Bethany alignments, which are accessible to Interstate 5. This could make access for
- 14 construction more difficult and construction more laborious than on the Eastern or Bethany15 alignments.
- 16 This alternative includes the construction of a Southern Forebay, which inherently requires more
- 17 construction and results in greater impacts than the Project, which does not require the
- construction of a Southern Forebay. More construction would result in a greater environmental
   footprint and potentially greater local community impacts.
- Through its Director, DWR rejects Alternative 2c on each of the above grounds. The Director finds
  that each of the above reasons is a sufficient independent ground for rejecting Alternative 2c as
  infeasible.

## 7.5.5 Rejection of Alternative 3: 6,000 cfs Eastern Alignment with Intakes B and C

#### 25 **7.5.5.1** Fundamental Purpose and Objectives

The extent to which this alternative can achieve the project purpose and objectives is comparable to
the Project because it has the same water conveyance capacity as the Project.

#### 28 **7.5.5.2 Other Feasibility/Policy Considerations**

- 29 This alternative includes the construction of a Southern Forebay, which inherently requires more
- 30 construction and results in greater impacts than the Project, which does not require the
- 31 construction of a Southern Forebay. More construction would result in a greater environmental
- 32 footprint and potentially greater local community impacts.
- 33 Through its Director, DWR rejects Alternative 3 on each of the above grounds. The Director finds
- that each of the above reasons is a sufficient independent ground for rejecting Alternative 3 asinfeasible.

## 7.5.6 Rejection of Alternative 4a: 7,500 cfs Eastern Alignment with Intakes A-C

#### 3 **7.5.6.1** Fundamental Purpose and Objectives

- This alternative would have similar potential to achieve SWP water supply reliability as the Project.
   However, it would have additional benefits for the CVP because it has an additional intake that
- 6 would provide capacity for CVP water deliveries.

#### 7 **7.5.6.2** Other Feasibility/Policy Considerations

- 8 Unlike the proposed project, Alternative 4a would have an additional significant and unavoidable
   9 impact: Impact AQ-6, Result in Exposure of Sensitive Receptors to Substantial Toxic Air Contaminant
   10 Emissions.
- Because this alternative involves the construction of an additional intake, it would result in greater
   impacts. These impacts include a greater environmental footprint and potentially greater local
- 13 community impacts.
- 14 This alternative includes the construction of a Southern Forebay, which inherently requires more
- 15 construction and results in greater impacts than the Project, which does not require the
- construction of a Southern Forebay. More construction would result in a greater environmental
   footprint and potentially greater local community impacts.
- Through its Director, DWR rejects Alternative 4a on each of the above grounds. The Director finds
  that each of the above reasons is a sufficient independent ground for rejecting Alternative 4a as
  infeasible.

## 7.5.7 Rejection of Alternative 4b: 3,000 cfs Eastern Alignment with Intake C

#### 23 **7.5.7.1** Fundamental Purpose and Objectives

This alternative would not achieve the Project's purpose of water supply reliability as effectively as
the Project because it has one less intake and 3,000 cfs less capacity of water conveyance compared
to the Project.

27 Alternative 4b would be less capable of meeting the Project's objective of addressing anticipated 28 rising sea levels and other reasonably foreseeable consequences of climate change and extreme 29 weather events. If salinity intrusion were to prevent the use of the existing south Delta pumps, 30 Alternative 4b would have less conveyance capacity to be able to provide water supply reliability to 31 the SWP when compared to the Project. Additionally, Alternative 4b would be less capable of 32 protecting the SWP from future climatic change and mitigating system losses due to changing 33 precipitation patterns and seasonal runoff due to climate change, compared to the Project, due to its 34 lower maximum capacity. Alternative 4b would have less overall capacity to capture excess flows in 35 the system and divert periodic and significant excess flows when southern Delta pumping is 36 currently restricted. Therefore, Alternative 4b would also be less capable of protecting the ability of 37 the SWP to deliver water when hydrologic conditions result in the availability of sufficient amounts 38 of water, compared to the Project.

- 1 In the event of catastrophic levee failures from seismic activities (which could temporarily disrupt
- 2 water supply by ceasing diversions from the SWP's current point of diversion in the south Delta),
- 3 Alternative 4b would be less capable of minimizing the potential for public health and safety impacts
- 4 from reduced quantity and quality of SWP water deliveries south of the Delta, compared to the
- 5 Project, due to its lower maximum capacity.
- Because Alternative 4b has only one intake and a lower maximum capacity, it would also provide
  less operational flexibility to improve aquatic conditions in the Delta and less operational flexibility
  to better manage risks of further regulatory constraints on project operations.

#### 9 **7.5.7.2** Other Feasibility/Policy Considerations

- 10 This alternative includes the construction of a Southern Forebay, which inherently requires more
- 11 construction and results in greater impacts than the Project, which does not require the
- 12 construction of a Southern Forebay. More construction would result in a greater environmental
   13 footprint and potentially greater local community impacts.
- 14 Through its Director, DWR rejects Alternative 4b on each of the above grounds. The Director finds
- that each of the above reasons is a sufficient independent ground for rejecting Alternative 4b asinfeasible.
- 7.5.8 Rejection of Alternative 4c: 4,500 cfs Eastern Alignment
   with Intakes B and C

#### 19 **7.5.8.1** Fundamental Purpose and Objectives

This alternative would not achieve the project's purpose of water supply reliability as effectively as
the Project because it has 1,500 cfs less capacity of water conveyance.

22 Alternative 4c would be less capable of meeting the Project's objective of addressing anticipated 23 rising sea levels and other reasonably foreseeable consequences of climate change and extreme 24 weather events. If salinity intrusion were to prevent the use of the existing south Delta pumps, 25 Alternative 4c would have less conveyance capacity to be able to provide water supply reliability to 26 the SWP when compared to the Project. Additionally, Alternative 4c would be less capable of 27 protecting the SWP from future climatic change and mitigating system losses due to changing 28 precipitation patterns and seasonal runoff due to climate change, compared to the Project, due to its 29 lower maximum capacity. Alternative 4c would have less overall capacity to capture excess flows in 30 the system and divert periodic and significant excess flows when southern Delta pumping is 31 currently restricted. Therefore, Alternative 4c would also be less capable of protecting the ability of 32 the SWP to deliver water when hydrologic conditions result in the availability of sufficient amounts

- 33 of water, compared to the Project.
- 34 In the event of catastrophic levee failures from seismic activities (which could temporarily disrupt
- 35 water supply by ceasing diversions from the SWP's current point of diversion in the south Delta),
- 36 Alternative 4c would be less capable of minimizing the potential for public health and safety impacts
- 37 from reduced quantity and quality of SWP water deliveries south of the Delta, compared to the
- 38 Project, due to its lower maximum capacity.

- 1 Because Alternative 4c has a lower maximum capacity, it would also provide less operational
- 2 flexibility to improve aquatic conditions in the Delta and less operational flexibility to better manage
- 3 risks of further regulatory constraints on project operations.

#### 4 **7.5.8.2** Other Feasibility/Policy Considerations

- 5 This alternative includes the construction of a Southern Forebay, which inherently requires more
- construction and results in greater impacts than the Project, which does not require the
   construction of a Southern Forebay. More construction would result in a greater environm
- 7 construction of a Southern Forebay. More construction would result in a greater environmental
- 8 footprint and potentially greater local community impacts.
- 9 Through its Director, DWR rejects Alternative 4c on each of the above grounds. The Director finds
  10 that each of the above reasons is a sufficient independent ground for rejecting Alternative 4c as
  11 infeasible.

#### 12 **7.5.9** Rejection of No Project Alternative

#### 13 **7.5.9.1** Fundamental Purpose and Objectives

As described in Final EIR, Volume 1, Chapter 4, *Framework for the Environmental Analysis*, the No
 Project Alternative analyses evaluate a scenario that includes climate change and sea level rise, as
 well as projects that may occur within the SWP service area if the Delta Conveyance Project does not
 move forward.

18 The No Project Alternative fails to meet DWR's fundamental purpose of "restor[ing] and protect[ing] 19 the reliability of SWP water deliveries and, potentially, CVP water deliveries south of the Delta 20 consistent with the State's Water Resilience Portfolio (California Natural Resources Agency et al. 21 2020) by addressing the seismic risks, sea level rise, and other reasonably foreseeable consequences 22 of climate change and extreme weather events in a cost effective manner." This alternative also fails 23 to meet any of the four specific project objectives described in Chapter 2, Purpose and Project 24 *Objectives*, of "help[ing] address anticipated rising sea levels and other reasonably foreseeable 25 consequences of climate change and extreme weather events; and "minimiz[ing] the potential for 26 public health and safety impacts from reduced quantity and quality of SWP water deliveries, and 27 potentially CVP water deliveries, south of the Delta as a result of a major earthquake that could 28 cause breaching of Delta levees and the inundation of brackish water into the areas where existing 29 SWP and CVP pumping plants operate in the southern Delta"; and "protect[ing] the ability of the 30 SWP, and potentially the CVP, to deliver water when hydrologic conditions result in the availability 31 of sufficient amounts of water, consistent with the requirements of the state and federal law, 32 including the ESA, CESA and Delta Reform Act, as well as the terms and conditions of water delivery 33 contracts and other existing applicable agreements"; and "provid[ing] operational flexibility to 34 improve aquatic conditions in the Delta and better manage risks of further regulatory constraints on

35 project operations."

#### **36 7.5.9.2 Other Feasibility/Policy Considerations**

The No Project Alternative would leave the SWP system subject to potentially catastrophic
consequences in the event of a major earthquake leading to levee breaks, inundation of Delta
islands, and prolonged disruptions of exports that could require environmentally damaging
emergency measures south of the Delta to provide water (California Department of Water Resources

1 2008b). Even in the absence of an event that catastrophically alters the hydrology of the Delta, 2 climate change and anticipated sea level rise could be expected to gradually limit the operation of 3 the SWP water pumps in the south Delta (California Department of Water Resources 2018). 4 Consequently, additional releases from upstream reservoirs are expected to be necessary to provide 5 the fresh water needed to meet current salinity standards (California Department of Water 6 Resources 2018). While water users have previously relied on groundwater to supplement surface 7 water supplies when operation of the SWP is limited by regulations to improve aquatic conditions, 8 groundwater pumping is now managed under the Sustainable Groundwater Management Act 9 requirements, which would have implications for meeting water supply demands depending on the 10 designation of a groundwater basin Chapter 8, Groundwater, Section 8.3.2.1, No Project Alternative). 11 As described in in the No Project Alternative discussions in Final EIR, Volume 1, Chapters 7 through 12 32, water managers in urban export areas could respond to diminished deliveries by taking other 13 actions, such as the construction of recycled water facilities and desalination plants, that would 14 create their own negative environmental effects, including consumption of large amounts of 15 greenhouse gas-generating fossil fuels, brine discharge, and for desalinization plants, potential 16 entrainment of aquatic species.

Through its Director, DWR rejects the No Project Alternative on each of the above grounds. The
Director finds that each of the above reasons is a sufficient independent ground for rejecting the No
Project Alternative as infeasible.

## 7.5.10 Alternatives Considered but Rejected from Further Consideration

#### 22 **7.5.10.1** Fundamental Purpose and Objectives

As discussed above in Section 5.3.1, *Alternatives Development and Screening Process*, DWR identified and screened a range of alternatives based on the project purpose and objectives, as defined in the NOP. The screening criteria were developed consistent with the legal requirements of CEQA and the project objectives included in the NOP published on January 15, 2020. The following alternatives did not pass the first of two screening filters and were rejected, as they do not meet most of the project's objectives:

- Dual Conveyance Tunnel with New Intakes at Fremont Weir and Decker Island
- **30** Dual Conveyance with New Intakes at Decker Island
- Isolated Conveyance New Intakes at Fremont Weir and Decker Island
- 32 Isolated Conveyance with San Joaquin River intake
- Western Delta Intake Concept
- SolAgra Water Solution
- **35** Portfolio-Based Proposed including Water Conveyance Facilities
- Through-Delta Conveyance No New Diversion Facility (with Barriers)
- Through-Delta Conveyance with No New Diversion Facility—New Fish Handling Facilities at
   Clifton Court Forebay
- **39** Portfolio Approach without Water Conveyance Facilities

- 1 Integration of Water Conveyance with Other Projects
- 2 **7.5.10.2** Other Feasibility/Policy Considerations
- The following alternatives passed the first filter but did not pass the second filter, as they do not
   avoid or substantially lessen impacts compared to the alternatives evaluated in the EIR:
- 5 Dual Conveyance East Canal
- 6 Dual Conveyance West Canal
- 7 Dual Conveyance with New Intakes at Sacramento Weir
- 8 Isolated Conveyance Tunnel with Sacramento River Intakes
- 9 o Isolated Conveyance West Canal with Sacramento River Intakes
- 10 o Isolated Conveyance East Canal with Sacramento River Intakes
- 11 o Isolated Conveyance East Canal with Feather River Intakes
- 12 A Water Plan for All of California
- Alternative locations for diversion facilities along the Sacramento River in the north Delta
- 14 For the foregoing reasons, DWR rejects all the alternatives to the Project considered in the EIR, including the alternatives considered but rejected from further consideration in the EIR, as 15 16 infeasible. As explained above, these alternatives would have greater environmental impacts 17 compared to the Project and/or would not meet the project goals or objectives, or would not achieve 18 them to the same degree as the Project, and/or are found to be infeasible on the basis of additional 19 grounds discussed above. DWR further finds that, out of all of the alternatives considered, the 20 Project strikes the optimal balance between attainment of project goals and objectives, competing 21 environmental and economic impacts and benefits, and best achieves the coequal goals set forth in 22 the Delta Reform Act of providing a more reliable water supply for California and protecting, 23 restoring, and enhancing the Delta ecosystem.

#### Chapter 8 Statement of Overriding Considerations

3 4 5 6 7	California Public Resources Code section 21081, subdivision (b), and CEQA Guidelines section 15093 provide that, when a public agency decision maker approves a project that will have significant, unavoidable environmental impacts identified in a final EIR, the decision maker must state in writing the reasons to support his, her, or its action based on the completed EIR and/or other information in the administrative record.
8 9 10 11 12 13	The Project's significant and potentially significant and unavoidable impacts, as described in the Final EIR are listed below prefaced by their identification number from the Final EIR. As explained in the Final EIR, several impacts have the potential to be less than significant after mitigation is implemented; however, due to uncertainty associated with the timing, nature, or need for other parties to participate in certain mitigation actions, DWR concluded the impact remain significant and unavoidable.
14 15 16	• Impact AG-1: Convert a Substantial Amount of Prime Farmland, Unique Farmland, Farmland of Local Importance, or Farmland of Statewide Importance as a Result of Construction of Water Conveyance Facilities
17 18 19	• Impact AG-2: Convert a Substantial Amount of Land Subject to Williamson Act Contract or under Contract in Farmland Security Zones to a Nonagricultural Use as a Result of Construction of Water Conveyance Facilities
20 21 22	• Impact AES-1: Substantially Degrade the Existing Visual Character or Quality of Public Views (from Publicly Accessible Vantage Points) of the Construction Sites and Visible Permanent Facilities and Their Surroundings in Nonurbanized Areas
23 24	• Impact AES-2: Substantially Damage Scenic Resources including, but Not Limited to, Trees, Rock Outcroppings, and Historic Buildings Visible from a State Scenic Highway
25	Impact AES-3: Have Substantial Significant Impacts on Scenic Vistas
26 27	• Impact CUL-1: Impacts on Built-Environment Historical Resources Resulting from Construction and Operation of the Project
28 29	• Impact CUL-2: Impacts on Unidentified and Unevaluated Built-Environment Historical Resources Resulting from Construction and Operation of the Project
30	• Impact CUL-3: Impacts on Identified Archaeological Resources Resulting from the Project
31 32	• Impact CUL-4: Impacts on Unidentified Archaeological Resources That May Be Encountered in the Course of the Project
33	Impact CUL-5: Impacts on Buried Human Remains
34	• Impact TRANS-1: Increased Average VMT Per Construction Employee versus Regional Average
35 36	• Impact AQ-5: Result in Exposure of Sensitive Receptors to Substantial Localized Criteria Pollutant Emissions

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- Impact NOI-1: Generate a Substantial Temporary or Permanent Increase in Ambient Noise
   Levels in the Vicinity of the Project in Excess of Standards Established in the Local General Plan
   or Noise Ordinance, or Applicable Standards of Other Agencies
- Impact PALEO-2: Cause Destruction of a Unique Paleontological Resource as a Result of Tunnel
   Construction and Ground Improvement
- Impact TCR-1: Impacts on the Delta Tribal Cultural Landscape Tribal Cultural Resource
   Resulting from Construction, Operations, and Maintenance of the Project Alternatives
- 8 Impact TCR-2: Impacts on Individual Tribal Cultural Resources Resulting from Construction,
   9 Operations, and Maintenance of the Project Alternatives

10 In the Director's judgment, the benefits of the Project, as set forth below, outweigh these significant 11 and unavoidable impacts. The following statement identifies the reasons why, in the Director's 12 judgment, the benefits of the Project as approved outweigh its significant and unavoidable impacts. 13 Any one of these reasons is sufficient to justify approval of the Project. Thus, even if a court were to 14 conclude that not every reason is supported by substantial evidence, each additional reason would 15 alone be sufficient to support the Director's determination. (See Habitat and Watershed Caretakers v. 16 City of Santa Cruz (2013) 213 Cal.App.4th 1277, 1307-1308.) The substantial evidence supporting 17 the various benefits can be found in the preceding findings, which are incorporated by reference 18 into this section, and in the documents found above in Chapter 2, Record of Proceedings, as defined 19 on pp. 2-1–2-2 herein.

- 20 The Project will improve California's water conveyance system in response to increased risks to 21 water supply reliability as a result of, for example, risks from seismicity and climate change. The 22 SWP supplies water to 27 million people in northern California, the Bay Area, the San Joaquin Valley, the Central Coast, and southern California. SWP water also irrigates about 750,000 acres of 23 24 farmland, mainly in the San Joaquin Valley (Final EIR, Volume 1, Chapter 2, Purpose and Project 25 *Objectives*, p. 2-1). The Delta has long been an important resource for California, providing 26 municipal, industrial, agricultural and recreational uses, fish and wildlife habitat, and water supply 27 to large portions of the State. By several key criteria, however, such as declines in populations of 28 several fish species, seismic risk to levees and the Delta infrastructure, continuing land subsidence, 29 and rising sea level, the Delta is now widely considered to be in crisis. The Legislature formally 30 recognized this when it enacted a comprehensive package of water bills in 2009, including the Delta 31 Reform Act: "The Sacramento-San Joaquin Delta watershed and California's water infrastructure are 32 in crisis and existing Delta policies are not sustainable. Resolving the crisis requires fundamental 33 reorganization of the state's management of Delta watershed resources." (California Water Code, § 34 85001, subd. (a).)
- State policy regarding the Delta is summarized in the Delta Reform Act, which states: "[I]t is the
  intent of the Legislature to provide for the sustainable management of the Sacramento-San Joaquin
  Delta ecosystem, to provide for a more reliable water supply for the state, to protect and enhance
  the quality of water supply from the Delta ...." (*Id.*, § 85001, subd. (c)).
- 39 The Delta "serves Californians concurrently as both the hub of the California water system and the
- 40 most valuable estuary and wetland ecosystem on the west coast of North and South America." (*Id.*, §
- 41 85002.) For the Delta to continue to maintain these functions, the Legislature has determined that
- 42 an improved water conveyance system is necessary. (*Id.*, § 85020, sub. (f); see also *id.*, §§ 85304,
- 43 85320.) As discussed in Final EIR, Volume 1, Chapter 1, *Introduction*, Section 1.2.4, *Prior Delta*
- 44 *Conveyance Planning Efforts*, the need for an improved conveyance system was identified based on

- 1 years of scientific study, extensive data gathered from various agencies and experts, and an
- elaborate process that involved agency and interested party input as well as robust publicinvolvement.

4 Interested parties have recognized an urgent need, for both environmental and economic reasons, to 5 improve and modernize the existing SWP conveyance system in the Delta, which was designed and 6 built long before the advent of many current environmental laws, including the ESA, Clean Water Act 7 (CWA), and CEQA (Final EIR, Volume 1, Chapter 1, Introduction, Section 1.2.4.4, The Bay Delta 8 *Conservation Plan and California WaterFix*). Other factors, such as those described in the *Delta Risk* 9 Management Strategy (DRMS) (California Department of Water Resources 2009), including the 10 continuing subsidence of lands within the Delta, increasing risk of seismic activity and levee failures, 11 and sea level rise and potentially wider variations in hydraulic conditions associated with climate 12 change, serve to further exacerbate these conflicts. By adding redundancy to the Delta's water 13 conveyance infrastructure through additional points of diversion in the North Delta, the project 14 minimizes the risks associated with seismic threats to the current Delta water infrastructure and 15 prevents or mitigates potentially significant economic losses to the state. Change to the existing 16 conveyance system is necessary if California is to "[a]chieve the two coequal goals [for the Delta] of 17 providing a more reliable water supply for California and protecting, restoring, and enhancing the 18 Delta ecosystem." (Pub. Resources Code, § 29702, subd. (a).)

19The Director finds that, of all of the alternatives considered in the EIR, the Project most fully20implements DWR's fundamental purpose to restore and protect the reliability of SWP water21deliveries south of the Delta consistent with the State's Water Resilience Portfolio in a cost-effective22manner and DWR's related objectives to address seismic risk, climate change, and regulatory23constraints, and to attain operational flexibility consistent with statutory and contractual24obligations. The Project will specifically result in the following benefits:

25 26

27

#### 8.1 Restore and Protect the Reliability of SWP Water Deliveries South of the Delta by Addressing Seismic Risks

28 A seismic event could cause major damage to property, infrastructure, and the environment that 29 could affect the entire state. The current SWP system relies heavily on natural channels within the 30 Delta to convey water and is extremely vulnerable to seismic events because most land in the 31 central Delta has subsided well below sea level. Many of the related Delta islands are currently 32 below sea level due to factors including subsidence of underlying organic soils, with this subsidence 33 expected to continue at a generalized rate of approximately 0.25 to 0.5 inch per year until the 34 organic content is largely depleted (Deverel et al. 2016:5). If levees fail because of a seismic event, 35 seawater intrusion from the western Delta could create salinity conditions that could require 36 ceasing diversions from the SWP's current point of diversion in the south Delta. The Project would 37 provide a water supply reliability benefit associated with earthquake risk that is not captured in 38 Project modeling, as Project implementation would avoid having the SWP shut down or severely 39 limit operations because of one or more levee breeches in the Delta. The capability of the Project to 40 continue operations would improve the ability of SWP Delta facilities to function after a seismic 41 event by operating diversion facilities north of existing SWP facilities. The operations of the project

would allow continued water supply diversions should south Delta export facilities become
 inoperable.

3 The probabilities of moderate to large earthquake events, and related damage to or failure of Delta 4 area levees, are generally high and increasing over time. According to the United States Geological 5 Survey (USGS), there is a 72 percent chance of a 6.7 or greater magnitude earthquake occurring in 6 the Bay Area by 2043 (U.S. Geological Survey 2016:1). A major earthquake event could result in 7 breaching or failure of existing levees within the Delta, with a substantial number of these structures 8 exhibiting moderate to high failure probabilities (California Department of Water Resources 9 2009:10). This could result in significant amounts of saltwater being drawn into the Delta region, 10 raising salinity levels and crippling the state's ability to deliver fresh water because of the location of 11 the SWP's primary diversion in the south Delta. Of the over 1,100 miles of Delta levees, many are not 12 in a condition to withstand significant shaking (Final EIR, Volume 1, Chapter 1, Introduction, Section 13 1.2.3.3, Delta Levee Risk). DWR has invested millions of dollars to reinforce many Delta levees 14 through the Delta Levees Special Flood Control Projects and Delta Levees Maintenance Subventions 15 programs and will continue to do so. However, even with levee improvements, the extensive Delta 16 levee system will remain vulnerable to a major earthquake (Final EIR, Volume 1, Chapter 1, 17 Introduction, Section 1.2.3.3, Delta Levee Risk). An earthquake could cause a possible outage in water 18 supply delivery lasting anywhere from several months to several years to perform necessary levee 19 repairs and restore salinity levels to where the SWP could resume normal operations. DWR has 20 estimated that it may take 25 to 34 months to complete repairs of levees after a major seismic event 21 in the Delta (California Department of Water Resources 2009:10). Cessation of SWP operations of 22 this magnitude would have catastrophic social and economic effects, including a loss of water 23 necessary for public health and safety (Final EIR, Volume 1, Chapter 1, Introduction, Section 1.2.3.1, 24 *California Water Supply*). Each year without "A Big One," the risk of disruption from a major 25 earthquake significantly increases. The Pacific Ocean's plate moves 50 millimeters per year making 26 California overdue for a major earthquake event (California Department of Water Resources 2023a). 27 Although no one can definitively say exactly when a major seismic event would occur, experts agree 28 that it is not a matter of "if," but a matter of "when" (U.S. Geological Survey 2016). The Project would 29 allow continued water deliveries and operational flexibility in the event of a catastrophic levee 30 failure from seismic activity that could temporarily disrupt water supply or affect water quality.

# 8.2 Restore and Protect the Reliability of SWP Water Deliveries South of the Delta by Addressing Reasonably Foreseeable Consequences of Climate Change and Extreme Weather Events

35 The Project is part of the state's strategy in adapting the SWP water supply to climate change. As 36 described in Final EIR, Volume 1, Chapter 30, Climate Change, projected future conditions under 37 climate change, such as higher average temperature and more extreme variability in annual 38 precipitation patterns, is anticipated to further diminish overall water supply and reliability of water 39 delivery. Climate change is already taking a toll on California's water supplies in the form of more 40 frequent and more severe droughts. A warmer atmosphere would modify precipitation and runoff 41 patterns and affect extreme hydrologic events like floods and droughts. It is anticipated that 42 droughts would increase in severity and duration, resulting in periods of critical dryness, further

1 reducing Delta inflows during these dry periods. At the same time, associated increases in the 2 frequency and severity of flashy storms in the cool season could increase high-flow events and flood 3 risk in the Delta. These trends clearly point to the need for alternate methods of water diversion and 4 conveyance to effectively respond to changing water flow regimes under future climate change. In 5 this context, DWR considers capture and conveyance in the Delta as important potential adaptations 6 in protecting the SWP from future climatic change and mitigating system losses due to changing 7 precipitation patterns and seasonal runoff. Having alternative points of diversion in the north Delta 8 would increase resiliency in managing combined effects of sea level rise, including potential impacts 9 on Delta morphology, and changes to timing and quantity of seasonal runoff. As water demand and 10 supply challenges continue to increase, the Project is designed to enhance resilience to climate 11 change impacts and ensure safe and reliable water deliveries continue far into the future (California 12 Department of Water Resources 2023b). As described in Final EIR, Volume 1, Appendix 30A, CalSim 13 3 Results Sensitivity to 2040 Climate Change and Sea Level Projections, the Project would be able to 14 operate to substantially lessen climate change impacts on SWP supplies under a drier climate with 15 less long-term average precipitation when hydrologic conditions and the operational criteria allow 16 diversions while meeting regulatory requirements for the protection of water quality and sensitive 17 fish in the Delta.

18 As discussed in Final EIR, Volume 1, Chapter 30, Climate Change, the Project would make California's 19 water system more resilient by augmenting the ability to capture increased winter flows and high 20 flows from flashy storms to supply water during dry months. The Project provides an alternative 21 diversion point in the north Delta for Delta exports, adding management flexibility and increases in 22 SWP deliveries during long-term average, dry, and critical water years. The inability of the existing SWP to divert periodic and significant excess flows when southern Delta pumping is currently 23 24 restricted represents a substantial lost opportunity to provide critically needed water supplies at a 25 time when inflow to the Delta far exceeds that needed to meet biological and water quality 26 regulatory objectives. When there are excess flows in the system, the north Delta intakes would be 27 used to capture additional excess flows when the south Delta exports are limited and not able to 28 capture those flows.

For instance, if the Project had been operational during the big storms in winter 2021-2022, DWR
 could have captured and moved about 236,000 acre-feet of water (California Department of Water
 Resources 2022), which is equivalent to approximately 40 percent of total SWP exports in water
 year 2022.

In October 2021, when high storm flows came and went quickly, the existing infrastructure and requirements for SWP operations limited the ability to capture these flows. In other words, the current configuration of the SWP is not sufficient to capture high and flashy flows, like those from the October 2021 storm. Additionally, in December 2021 and January 2022, to protect sensitive fish from getting pulled into less habitable parts of the Delta, pumping of water from the south Delta was limited, even when there was an abundant amount of water in the north Delta from storm events (California Department of Water Resources 2022).

The inability of the SWP to divert these excess flows represents a substantial lost opportunity to
help recover from multiple years of drought. If the Delta Conveyance Project had been operational
during those storms, the SWP would have been able to capture more water, while still meeting
water quality standards and protecting sensitive fish, and move and store this much-needed water
for later use in the summer or fall.

## 8.3 Restore and Protect the Reliability of SWP Water Deliveries South of the Delta by Addressing Sea Level Rise

4 Global mean sea level has risen approximately 7.87 inches (0.2 meters) from 1901 to 2018, affecting 5 high tide events and salinity levels in the Delta (Final EIR, Volume 1, Chapter 30, *Climate Change*, pp. 6 30-6–30-7). It is "virtually certain" that substantial sea level rise will occur by the end of the century, 7 although the rate and degree of increase remains uncertain (e.g., at the San Francisco Bay, the 50<sup>th</sup> 8 percentile change in projected sea level rise by 2100 under the Representative Concentration 9 Pathway 8.5 (high emissions) modeling scenario is 2.5 feet, but it is 1.6 feet under the RCP 2.6 10 modeling scenario) (California Natural Resources Agency and Ocean Protection Council 2018:57). The Project would operate under different sea level rise conditions and would allow adaptation to 11 12 sea level rise and potential changes in hydrologic conditions associated with climate change. As 13 described in Final EIR, Volume 1, Appendix 6A, Water Supply 2040 Analysis, indicate that long-term 14 average annual SWP deliveries under the future No Project Alternative under the 2040 scenario. 15 which includes sea level rise of 1.8 feet at the San Francisco Bay—considered extreme for the year 16 2040 (California Natural Resources Agency and Ocean Protection Council 2018:57)—could decline 17 by approximately 236,000 acre-feet compared to existing conditions and that implementing the 18 Project under the 2040 scenario would increase long-term average annual SWP deliveries by 19 approximately 287,000 acre-feet compared to existing conditions. This analysis shows that the 20 Project would improve SWP water supply reliability under current and future conditions, including 21 extreme high sea level rise.

22 In addition, the Project is being built with consideration of climate change by designing according to 23 modeled conditions and thus is expected to have a low level of risk for direct climate change effects 24 such as sea level rise. The Project would likely remain functional well into the future, when salinity 25 intrusion may prevent use of the south Delta pumps. As described in Final EIR, Volume 1, Appendix 26 5A, Modeling Technical Appendix, studies demonstrate that the proposed north Delta intakes would 27 not be vulnerable to saltwater intrusion even with an extreme high sea level rise of up to 10.2 feet at 28 Golden Gate Bridge in the San Francisco Bay. Therefore, even in the face of extreme sea level rise, the 29 north Delta intakes would continue to be operable. Additionally, compounding effects of climate 30 change, including increasing stress on supply to meet demand under warmer temperatures, or 31 increasing need for water releases to maintain water quality requirements, may affect the long-term 32 reliability of Delta exports (Delta Stewardship Council 2021:5-55–5-58). By adding intakes along the 33 Sacramento River (where they are less vulnerable to sea level rise compared to the existing south 34 Delta export facilities), the Project allows for operational flexibility to respond to changing 35 conditions in the Delta (Final EIR, Volume 1, Chapter 30, Climate Change, p. 30-26). This increased 36 flexibility would allow managers in the SWP system more options for adaptively managing 37 resources to optimize benefits across water uses and provide more reliable water supplies that 38 would benefit areas receiving deliveries (Final EIR, Volume 1, Chapter 30, Climate Change, p. 30-26).

#### **8.4** Protect and Benefit California's Economy

#### 2 8.4.1 Benefits of Project Operations to the State's Economy

3 Water supplied by the SWP has benefits for the entire state and has helped California become the 4 fifth largest economy in the world, and the Project will provide protections and benefits to 5 California's economy. California cities that receive water from the Delta, including areas within the 6 Bay Area and Silicon Valley, as well as Central and Southern California, produce hundreds of billions 7 of dollars' worth of goods and services each year. A functioning water delivery system—one that can 8 maximize reliable supplies within regulatory limits and withstand the impacts of climate change and 9 earthquakes—is critical to business growth and job creation. Despite statewide efforts to improve 10 water conservation, recycling, groundwater management, and build the resilience of local water 11 systems across the state, the SWP remains a critical component to California's water system and 12 serves as a foundation for important local water supplies and resiliency programs. While water 13 conservation and local water supply options have made and are anticipated to continue to make 14 significant strides into the future, the Project is critical to protect the reliability of the SWP as an 15 important water stabilization source for the State. Participating public water agencies' existing and 16 continued activities to improve local self-reliance and to use California's water resources efficiently 17 and sustainably are important components of their water supply portfolios, but these actions cannot 18 wholly replace SWP supplies (California Natural Resources Agency et al. 2020:113). The Project is 19 one component of the statewide portfolio approach needed to meet California's overall water 20 management needs and failure to protect the SWP from future changes would put California's water 21 supply and economy at risk.

22 In the absence of the Project, the negative economic impact of water export cutbacks would be felt 23 statewide. Drought conditions in recent years have already demonstrated that existing, and 24 reasonably foreseeable future, local sources, particularly in areas such as Southern California, will 25 not be able to sustain over the long term in the face of shortages from supplies such as the SWP. 26 Given the high cost of securing water to keep up with demand satisfied through Delta exports, there 27 is a statewide economic benefit extending to potentially billions of dollars, depending on export 28 levels in the future without the Project. Increasing the reliability of water deliveries can reduce costs 29 to water providers and users in the SWP service areas if they are able to use the SWP supply to avoid 30 more costly supplies.

31 In addition, California is the agricultural powerhouse of the United States—leading all other states in 32 farm income. Improved agricultural water supply and reliability can keep land in production and 33 would support more stable (and potentially larger) agricultural acreage, enable broader crop 34 selection, and reduce cost and risk associated with uncertain water deliveries. During dry and 35 critical water conditions, additional supply can reduce land idling and reduce the cost of 36 replacement supply (Final EIR, Volume 1, Chapter 17, Socioeconomics, p. 17-88). More reliable 37 agricultural water supply would also benefit the local farm economy, including seasonal and 38 permanent on-farm employment, and will protect employment in industries closely associated with 39 agricultural production such as food processing, agricultural inputs, and transportation (Final EIR, 40 Volume 1, Chapter 17, Socioeconomics, p. 17-88).

41 The community character of rural regions receiving SWP water supply is closely tied to agriculture,

- 42 so improvements in water supply reliability could support the current social activities and
- 43 character. The range of agricultural water supply likely provided by the Project would not induce

- 1 new agricultural production, but the improved reliability would contribute to and reinforce existing
- economic and social patterns and institutions. Greater stability of the local economy would also
   benefit local government fiscal conditions (Final EIR, Volume 1, Chapter 17, Socioeconomics, p. 17-
- 4 88).
- 5 The increased amount and reliability of urban water supply is expected to be used to accommodate 6 population and economic growth that the urban regions are already planning for and to offset other, 7 more costly supplies that would otherwise be used or developed. Final EIR, Volume 1, Chapter 31, 9 Curvet la decompart Section 21.2.2.2 In direct Country la decompart Effects Accepted with Stabilized
- *Growth Inducement*, Section 31.2.3.3, *Indirect Growth Inducement Effects Associated with Stabilized Water Deliveries*, describes how the water deliveries will accommodate existing or already planned
- Water Deliveries, describes how t
   uses (Einst EID Volume 1, Charter
- 10 uses (Final EIR, Volume 1, Chapter 17, *Socioeconomics*, p. 17-88).

#### **8.4.2** Benefits of Project Construction to the State's Economy

12 Public infrastructure projects such as the Project are essential to many facets of the economy, 13 typically providing a substantial socioeconomic benefit. The construction of the Project will create 14 3,086 new construction jobs during the peak construction year (Final EIR, Volume 1, Chapter 17, 15 Socioeconomics, p. 17-61), and will generate revenue in a range of other sectors due to multiplier 16 effects as spending made locally in connection to Project construction moves through the Delta 17 economy and other regions of California. For example, new earned revenue by businesses and 18 workers are in some portion spent back into local economies which will stimulate additional 19 spending in the form of new hires, more pay for workers, renovations, or other goods or services. It 20 is anticipated that the majority of these new jobs would be filled from within the existing labor force 21 in the region. The construction of the Project is therefore likely to result in a substantial number of 22 new jobs and economic activity, much of which will be concentrated in the Delta region.

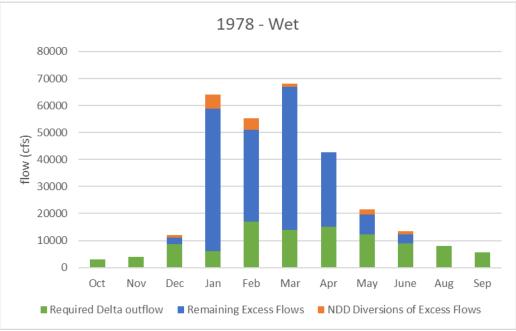
## 8.5 Provide SWP Operational Flexibility and Better Manage Risks of Further Regulatory Constraints on Project Operations

26 Since the SWP became operational, SWP operations have changed largely in response to regulatory 27 changes intended to better protect fish and wildlife resources in the Delta, as described in Final EIR, 28 Volume 1, Chapter 1, Introduction, Section 1.2.3.4, Regulatory Environment. In recent years, water 29 diversions at the existing south Delta facilities have been limited during certain times of the year to 30 protect aquatic resources, which has considerably reduced the long-term average amounts of water 31 conveyed through the south Delta and has resulted in overall reduced and less reliable water supply 32 for SWP users. These pumping restrictions applied by regulatory agencies to address water quality 33 and aquatic species concerns at the south Delta diversion continue to prevent the SWP from reliably 34 capturing water when it is available, especially from storm events. Constraints on groundwater use 35 imposed by the Sustainable Groundwater Management Act of 2014 could also increase the need for 36 reliable SWP surface water supplies over time.

37 As described in Final EIR, Volume 1, Chapter 6, *Water Supply*, modeled long-term average annual

- 38 SWP deliveries under the Project would increase by 15% when compared to existing conditions.
- Additionally, analyses in Final EIR, Volume 1, Appendix 6A, *Water Supply 2040 Analysis*, indicate that
- 40 long-term average annual SWP deliveries under the future No Project Alternative under the 2040

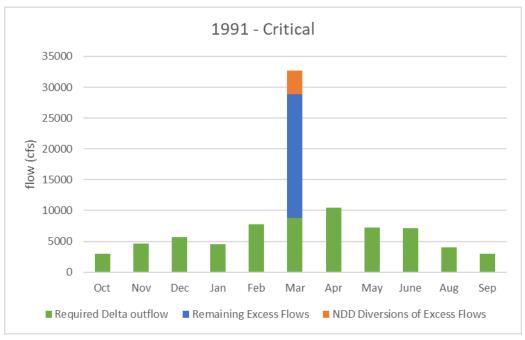
- 1 scenario could decline by approximately 236,000 acre-feet compared to existing conditions and that 2 implementing the Project under the 2040 scenario conditions—including extreme high sea level rise 3 of 1.8 feet at the San Francisco Bay—would increase long-term average annual SWP deliveries by 4 approximately 287,000 acre-feet compared to existing conditions. These analyses show that the 5 Project would improve SWP water supply reliability under current and future conditions. Further, 6 increased delivery may simply restore average contract deliveries that have been affected because 7 of regulatory rules and operational agreements or could be used to supplement or reduce 8 groundwater use under the Sustainable Groundwater Management Act.
- 9 The Project will increase the options available to SWP operators to more effectively balance the Bay-
- 10 Delta system in real-time to protect all beneficial uses of water whether for water supply, water 11 quality, or fishery protection purposes. The proposed intakes would augment the ability to capture 12 excess flows and improve the flexibility of the SWP operations, such as for meeting the State Water 13 Board D-1641 Delta salinity requirements. For example, during the late spring, summer, and fall, 14 when the SWP is typically operating to meet State Water Board D-1641 salinity requirements in the 15 Delta, both the existing south Delta intakes and the proposed north Delta intakes would be operated 16 together to meet these salinity requirements. The south Delta exports and the north Delta diversions 17 would be balanced and adjusted to meet the State Water Board D-1641 salinity requirements at the 18 western Delta stations on the Sacramento and San Joaquin Rivers (e.g., increasing salinity at Jersey 19 Point would cause a shift in diversions from south Delta to north Delta, whereas increasing salinity 20 at Emmaton would cause a shift from north Delta to south Delta). This operation is expected to 21 result in a more efficient system operation where less water would be required to meet the same 22 water quality standards and result in additional water that could either remain in storage or be exported. 23
- 24 Additionally, the below figures, based on substantial evidence in the administrative record, also 25 demonstrate how the project would operate during certain hydrologic conditions by diverting 26 excess water during high-flow events and help provide a more reliable water supply responsive to 27 changing weather conditions and rainfall patterns. These diversion examples created by DWR 28 demonstrate the frequency and magnitude of diversions that could occur when excess flows occur 29 after all other applicable Delta outflow requirements are met. These series of figures also 30 demonstrate that there may be sufficient water in the river to divert at different times within each 31 water year type and across all water year types, including critical years.



1 2 3

Note: Required outflow includes water to meet minimum required Delta outflows, X2, and salinity, including carriage water for wheeling and transfers.

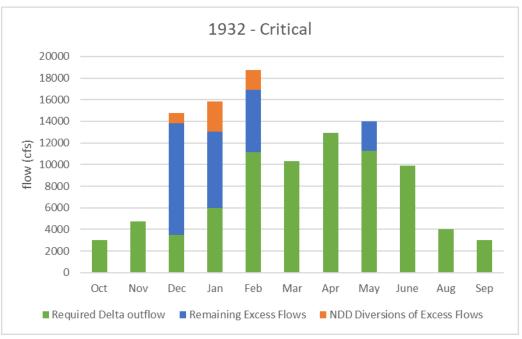
#### 4 Figure 1: 1978 – Wet Water Year Type and Operations of North Delta Diversions



#### 5 6 7 8

Note: Required outflow includes water to meet minimum required Delta outflows, X2, and salinity requirements, including carriage water for wheeling and transfers.

#### Figure 2: 1991 – Critical Water Year Type and Operations of North Delta Diversions



1 2 3

Note: Required outflow includes water to meet minimum required Delta outflows, X2, and salinity, including carriage water for wheeling and transfers.

#### 4 Figure 3: 1932 – Critical Water Year Type and Operations of North Delta Diversions

5 Furthermore, the addition of the north Delta intakes would also provide operational flexibility that 6 could improve conditions for aquatic species by, among other things, allowing operators to divert 7 water at times and places—in either the north or the south—that protect those species at sensitive 8 life stages. Use of the north Delta intakes to improve conditions for sensitive aquatic species in the 9 southern Delta could occur when reducing south Delta exports at Clifton Court Forebay would 10 benefit sensitive fish species in the south Delta without causing fish effects at the proposed north 11 Delta intakes. In this circumstance, use of the north Delta intakes would result in further reduction 12 in south Delta SWP exports beyond the reduction that would otherwise have occurred based on the 13 permitted south Delta regulatory criteria. For example, if the south Delta criteria allow 3,500-cfs 14 SWP exports at Clifton Court Forebay and if there is a circumstance that would be beneficial to 15 sensitive aquatic protection to instead divert a portion of the exports from the proposed north Delta 16 intakes, then SWP exports at south Delta export facilities would be less than 3,500 cfs, and the 17 remaining allowable exports would be diverted from the north Delta. This procedure, which could 18 be used under limited circumstances (and decisions to shift would be in coordination with 19 regulatory agencies), would provide increased flexibility to meet water supply and aquatic species 20 needs.

1	Chapter 9
2	Summary of Conclusions
3	By this Statement of Overriding Considerations, the Director of DWR finds that the remaining
4	significant and unavoidable environmental impacts of the Project, summarized herein, are
5	acceptable in light of the environmental, economic, legal, social, technological, and/or other
6	considerations set forth herein, because the benefits of the Project outweigh its significant and
7	unavoidable environmental impacts.
8	The Director declares that DWR has adopted all feasible mitigation measures to reduce the Project's
9	environmental impacts; considered the entire administrative record, including the Final EIR; and
10	weighed the Project's benefits against its environmental impacts. After doing so, the Director has
11	determined that the Project's benefits outweigh its environmental impacts, and deems them

12 acceptable, consistent with CEQA Guidelines section 15093.

1	Chapter 10
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#### Exhibit A CEQA Findings of Fact for the Project's Significant and Unavoidable Impacts, Impacts that are Less Than Significant after Mitigation and Impacts that are Less Than Significant/No Impact

#### Table 1: CEQA Findings of Fact for Significant and Unavoidable Project Impacts

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Adopted Mitigation Measures	Impact Conclusion After Mitigation- CEQA	Findings of Fact
Agricultural Resources	•			
Impact AG-1: Convert a Substantial Amount of Prime Farmland, Unique Farmland, Farmland of Local Importance, or Farmland of Statewide Importance as a Result of Construction of Water Conveyance Facilities	Significant	MM AG-1: Preserve Agricultural Land	Significant and Unavoidable	Mitigation Measure AG-1: Preserve Ag remaining impacts that could not be a impacts would remain significant and measures because conservation of agr conservation easements, even at a rati Important Farmland in the study area
				Findings: Changes or alterations have substantially lessen, but do not avoid, Final EIR. Impacts are therefore signif mitigation measures.
Impact AG-2: Convert a Substantial Amount of Land Subject to Williamson Act Contract or under Contract in Farmland	Significant	MM AG-1: Preserve Agricultural Land	Significant and Unavoidable	Project facilities would result in perma Williamson Act contract.
Security Zones to a Nonagricultural Use as a Result of Construction of Water Conveyance Facilities				There is projected to be temporary or agricultural land within a Farmland Se on land under contract with Farmland and new overhead power transmissio work associated with geotechnical exp lines.
				DWR would comply with all applicabl 51290–51295 as they pertain to acqui
				Findings: Changes or alterations have substantially lessen, but do not avoid, Final EIR. Impacts are therefore signif mitigation measures.
Aesthetics and Visual Resources				
Impact AES-1: Substantially Degrade the Existing Visual Character or Quality of Public Views (from Publicly Accessible Vantage Points) of the Construction Sites and Visible Permanent Facilities and Their Surroundings in Nonurbanized Areas	Significant	MM AES-1a: Install Visual Barriers between Construction Work Areas and Sensitive Receptors MM AES-1b: Apply Aesthetic Design Treatments to Project Structures MM AES-1c: Implement Best Management Practices in Project Landscaping Plan	Significant and Unavoidable	Construction of the Project would sub- present in the study area from public r vicinity of project sites. Contributing t facility construction at all of the major equipment in the proximity to sensitiv buildings; removal of riparian vegetat earthmoving and grading that result in flat, as well as dust generation; addition intakes, pumping plants, discharge str large-scale reusable tunnel material (I lattice steel transmission towers. Beca

Agricultural Land would reduce the extent of the avoided through careful project planning. However, these id unavoidable after implementation of the mitigation gricultural farmland through acquisition of agricultural atio of 1:1 or greater, would not avoid a net loss of ea.

ve been required in, or incorporated into, the project that d, the significant environmental effect as identified in the nificant and unavoidable despite the adoption of feasible

manent conversion of around 1,100 acres of land under

or permanent conversion of approximately 39 acres of Security Zone under the Project. The permanent impacts nd Security Zone would be associated with the shaft sites ion lines, while the temporary impacts would result from exploration sites and underground installation of utility

ble provisions of California Government Code Sections uiring lands subject to Williamson Act contract.

ve been required in, or incorporated into, the project that d, the significant environmental effect as identified in the nificant and unavoidable despite the adoption of feasible

substantially affect the existing visual quality and character lic roads, residences, and areas of visual effect in the ng to this impact would include the long-term nature of ajor project sites and visibility of heavy construction sitive vantage points; removal of residences and agricultural etation and other mature vegetation or landscape plantings; lt in changes to topography in areas that are predominantly lition of large-scale industrial-looking structures (e.g., structures and related facilities); remaining presence of al (RTM) area landscape effects; and introduction of tall recause of the combined effect of multiple and concurrent California Department of Water Resources

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Adopted Mitigation Measures	Impact Conclusion After Mitigation- CEQA	Findings of Fact
	inigation of gr		inigation objer	<ul> <li>construction sites on localized views, the changes permanent facilities would have area and high viewer sensitivity, this im shown in Table 18- 14. This conclusion in a large Delta landscape. Although in a small portion of the Delta limited to the permanent facility changes in visual quanumber of locations in the study area.</li> <li>Findings: Changes or alterations have b substantially lessen, but do not avoid, the Final EIR. Impacts are therefore signific</li> </ul>
Impact AES-2: Substantially Damage Scenic Resources including, but Not Limited to, Trees, Rock Outcroppings, and Historic Buildings Visible from a State Scenic Highway	Significant	MM AES-1b: Apply Aesthetic Design Treatments to Project Structures MM AES-1c: Implement Best Management Practices in Project Landscaping Plan	Significant and Unavoidable	mitigation measures. Because visual elements associated with patterns, colors, and textures along Stat available from SR 160; and would alter experience presently available from SR resources along a state scenic highway) Measures AES-1b: Apply Aesthetic Desi Implement Best Management Practices impacts through the application of aesth feasible. However, impacts on visual res may be viewed from a state scenic high level because even with Mitigation Mea- 160 to the location of intakes would cha type facility. There would be noticeable state scenic highway viewshed that do n environment based upon the viewer's lo Thus, overall, this impact would be sign Findings: Changes or alterations have b substantially lessen, but do not avoid, th
Impact AES-3: Have Substantial Significant Impacts on Scenic Vistas	Significant	MM AES-1a: Install Visual Barriers between Construction Work Areas and Sensitive Receptors MM AES-1b: Apply Aesthetic Design Treatments to Project Structures MM AES-1c: Implement Best Management Practices in Project Landscaping Plan	Significant and Unavoidable	<ul> <li>Final EIR. Impacts are therefore signific mitigation measures.</li> <li>The Project would include some facilitie unavoidable impacts on existing visual scenic vistas. Mitigation Measures AES-Areas and Sensitive Receptors, AES-1b: Structures, and AES-1c: Implement Best would reduce scenic vista impacts in the character. Overall, not all impacts would although environmental commitments a the impact on scenic vistas, these measure reasons described for Impact AES-1.</li> </ul>
				Findings: Changes or alterations have b substantially lessen, but do not avoid, th Final EIR. Impacts are therefore signific mitigation measures.

, the length of time construction would occur, and the ave on multiple short- and long-range views in the study impact is considered to be significant at several sites, as on also takes into consideration the Project's visual effects n a regional context the Project would affect a relatively he distinct and discrete project sites, construction and quality and character would be substantially reduced in a

been required in, or incorporated into, the project that , the significant environmental effect as identified in the ificant and unavoidable despite the adoption of feasible

vith the Project would conflict with the existing forms, tate Route (SR) 160; would dominate riverfront views er broad views and the general nature of the visual SR 160 (thereby permanently damaging the scenic ay), these impacts are considered significant. Mitigation esign Treatments to Project Structures and AES-1c: es in Project Landscaping Plan would help reduce these esthetic design treatments to all structures, to the extent resources resulting from damage to scenic resources that ghway would not be reduced to a less-than-significant easures AES-1b and AES-1c 17 the overall view from SR change from open agricultural land to a large industrialble to very noticeable changes to the visual character of a o not blend or are not in keeping with the existing visual s location in the landscape relative to the visible change. gnificant and unavoidable.

been required in, or incorporated into, the project that , the significant environmental effect as identified in the ficant and unavoidable despite the adoption of feasible

ities or components that would result in significant and al quality and character within the study area including ES-1a: Install Visual Barriers between Construction Work b: Apply Aesthetic Design Treatments to Project est Management Practices in Project Landscaping Plan the same way described for effects on visual quality and uld be reduced to a less-than-significant level because, ts and mitigation measures would reduce some aspects of asures would only partially reduce effects for the same

been required in, or incorporated into, the project that the significant environmental effect as identified in the ficant and unavoidable despite the adoption of feasible

California Department of Water Resources

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Adopted Mitigation Measures	Impact Conclusion After Mitigation- CEQA	Findings of Fact
Cultural Resources				
Impact CUL-1: Impacts on Built- Environment Historical Resources Resulting from Construction and Operation of the Project	Significant	MM CUL-1a: Avoid Impacts on Built-Environment Historical Resources through Project Design MM CUL-1b: Prepare and Implement a Built- Environment Treatment Plan in Consultation with Interested Parties	Significant and Unavoidable	Construction of project features may rehistorical resources. Construction may environment historical resources. Both design, or workmanship, as well as mat association would impact the historical the resource or altering the resource's ability to convey its significance. For the Mitigation Measure CUL-1a: Avoid Impa- through Project Design and Mitigation I Environment Treatment Plan in Consul effects but cannot guarantee they would constraints imposed by other environm significant impacts unlikely. For these r impact would be significant and unavoi oversight of individuals who meet the S Standards and have demonstrable expec CUL-1a and MM CUL-1b). Findings: Changes or alterations have b substantially lessen, but do not avoid, th Final EIR. Impacts are therefore signific mitigation measures.
Impact CUL-2: Impacts on Unidentified and Unevaluated Built-Environment Historical Resources Resulting from Construction and Operation of the Project	Significant	MM CUL-2: Conduct a Survey of Inaccessible Properties to Assess Eligibility and Determine Whether These Properties Will Be Adversely Affected by the Project	Significant and Unavoidable	Construction of project facilities may re- resources. Construction may also result setting, or association. Changes to the s would either remove the resource or al diminishment of the resource's ability t be a significant impact. Mitigation Meas to Assess Eligibility and Determine Whe the Project may mitigate these impacts, The scale of the Project and the constra avoidance of all significant impacts unli impact would be significant and unavoi Findings: Changes or alterations have b substantially lessen, but do not avoid, th Final EIR. Impacts are therefore significant mitigation measures.
Impact CUL-3: Impacts on Identified Archaeological Resources Resulting from the Project	Significant	MM CUL-3a: Prepare and Implement an Archaeological Resources Management Plan MM CUL-3b: Conduct Cultural Resources Sensitivity Training MM CUL-3c: Implement Archaeological Protocols for Field Investigations	Significant and Unavoidable	Field investigations and construction of archaeological resources that occur in t significant because construction would between these resources and their arch information useful in archaeological res resources. Identified but currently inac California Register of Historical Resour Prepare and Implement an Archaeologi CUL-3b: Conduct Cultural Resources Se Implement Archaeological Protocols for training personnel and recovering scien through the sensitive area, but would n

require physical alteration of 7 built-environment ay also result in changes to the setting of 7 builtoth material alterations to the integrity of materials, aterial alterations to the integrity of setting, feeling, or cal resource by removing character-defining features of 's character, resulting in an impairment of the resource's these reasons this would be a significant impact. pacts on Built-Environment Historical Resources n Measure CUL-1b: Prepare and Implement a Built sultation with Interested Parties may mitigate these uld be entirely avoided. The scale of the Project and the nmental resources would make avoidance of all e reasons, even with MM CUL-1a and MM CUL-1b, this voidable. All mitigation will be completed under the e Secretary of the Interior Professional Qualifications perience conducting the recommended measures (MM

been required in, or incorporated into, the project that , the significant environmental effect as identified in the ficant and unavoidable despite the adoption of feasible

require the alteration of built-environment historical ult in material alterations to the integrity of feeling, e setting would be material alterations because they alter the resource's character, resulting in a y to convey its significance. For these reasons this would easure CUL-2: Conduct a Survey of Inaccessible Properties /hether These Properties Will Be Adversely Affected by ts, but cannot guarantee they would be entirely avoided. raints imposed by other environmental resources make nlikely. For these reasons, even with MM CUL-2, this voidable.

been required in, or incorporated into, the project that , the significant environmental effect as identified in the ficant and unavoidable despite the adoption of feasible

of conveyance facilities would affect identified n the footprint of the Project. This impact would be ld materially alter or destroy the spatial associations chaeological data, which has the potential to yield research and is the basis for the significance of these accessible resources may also be significant under other urces (CRHR) criteria. Mitigation Measure CUL-3a: ogical Resources Management Plan, Mitigation Measure Sensitivity Training, and Mitigation Measure CUL-3c: for Field Investigations would mitigate this impact by ientifically important material prior to construction I not guarantee that all of the scientifically consequential

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Adopted Mitigation Measures	Impact Conclusion After Mitigation- CEQA	Findings of Fact
				information would be retrieved because retrieves a sample of the deposit, and po remain after treatment. Construction co Therefore, even with mitigation, this imp
				Findings: Changes or alterations have be substantially lessen, but do not avoid, th Final EIR. Impacts are therefore significa mitigation measures.
Impact CUL-4: Impacts on Unidentified Archaeological Resources That May Be Encountered in the Course of the Project	Significant	MM CUL-3a: Prepare and Implement an Archaeological Resources Management Plan MM CUL-3b: Conduct Cultural Resources Sensitivity Training MM CUL-3c: Implement Archaeological Protocols for Field Investigations	Significant and Unavoidable	Construction has the potential to disturb qualifying as historical resources or unio excavation, compaction, or other disturb scientifically useful information, these ac thus materially altering the resource and resources would not be identified prior to cannot be managed through construction Implement an Archaeological Resources Resources Sensitivity Training, and CUL- Investigations would reduce the potentia discovery protocols and providing traini activities. However, because archaeologi measures prior to disturbance, the effect would remain significant and unavoidab unknown. Findings: Changes or alterations have be substantially lessen, but do not avoid, the Final EIR. Impacts are therefore significa- mitigation measures.
Impact CUL-5: Impacts on Buried Human Remains	Significant	MM CUL-3a: Prepare and Implement an Archaeological Resources Management Plan MM CUL-3b: Conduct Cultural Resources Sensitivity Training MM CUL-3c: Implement Archaeological Protocols for Field Investigations MM CUL-5: Follow State and Federal Law Governing Human Remains If Such Resources Are Discovered during Construction	Significant and Unavoidable	The study area is sensitive for buried hu disturbing work that may damage previo effects on these resources. Disturbance of of cemeteries, is considered a significant any disturbance of such remains would b Prepare and Implement an Archaeologic Cultural Resources Sensitivity Training, a Field Investigations would reduce the po- implementing monitoring and discovery involved in ground-disturbing activities, would not guarantee that buried human of construction; the scale of construction perform the level of sampling necessary construction. Therefore, this impact, eve unavoidable.
				Findings: Changes or alterations have be substantially lessen, but do not avoid, th Final EIR. Impacts are therefore significa mitigation measures.

se feasible archaeological excavation typically only portions of the site with consequential information may could damage these remaining portions of the deposit. mpact would be significant and unavoidable.

been required in, or incorporated into, the project that the significant environmental effect as identified in the icant and unavoidable despite the adoption of feasible

irb previously unidentified archaeological resources nique archaeological resources. Because direct rbance may disrupt the spatial associations that contain activities would alter the potential basis for eligibility. and resulting in a significant impact. Because these or to construction, they cannot be recorded, and impacts ion treatment. Mitigation Measures CUL-3a: Prepare and es Management Plan, CUL-3b: Conduct Cultural JL-3c: Implement Archaeological Protocols for Field itial for this impact by implementing monitoring and ining to all personnel involved in ground-disturbing ogical resources may not be identified through these ect cannot be entirely avoided. Therefore, this impact able because resource locations and extents are

been required in, or incorporated into, the project that the significant environmental effect as identified in the icant and unavoidable despite the adoption of feasible

human remains. Construction would require groundviously unidentified human remains, resulting in direct e of human remains, including remains interred outside int impact in the CEQA Appendix G checklist; therefore, d be a significant impact. Mitigation Measures CUL-3a: gical Resources Management Plan, CUL-3b: Conduct g, and CUL-3c: Implement Archaeological Protocols for potential for this impact and its severity by ery protocols and providing training to all personnel es, but not to a less-than-significant level because they an remains could be discovered and treated in advance on makes it technically and economically infeasible to ry to identify all such buried human remains prior to ven with mitigation, would be significant and

been required in, or incorporated into, the project that the significant environmental effect as identified in the icant and unavoidable despite the adoption of feasible

California Department of Water Resources

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Adopted Mitigation Measures	Impact Conclusion After Mitigation- CEQA	Findings of Fact
Transportation				
Impact TRANS-1: Increased Average VMT Per Construction Employee versus Regional Average	Significant	MM TRANS-1: Implement Site-Specific Construction Transportation Demand Management Plan and Transportation Management Plan	Significant and Unavoidable	Construction of the Project would result regional transportation system and incr traveled for home-based work trips who day. This increase would be a temporary conveyance facility construction employ the course of the construction time peri
				This level of carpool participation is a go workers will be drawn from the region is carpooling or vanpooling. Because of the carpool/vanpool near their place of resi uncertainty that this goal would be achi unavoidable with mitigation.
				Findings: Changes or alterations have be substantially lessen, but do not avoid, th Final EIR. Impacts are therefore signific mitigation measures.
Air Quality and Greenhouse Gases				
Impact AQ-5: Result in Exposure of Sensitive Receptors to Substantial Localized Criteria Pollutant Emissions	Significant	MM AQ-5: Avoid Public Exposure to Localized Particulate Matter and Nitrogen Dioxide Concentrations	Significant and Unavoidable	<ul> <li>The impact would be significant under ( contribute to existing violations or creat 2.5 microns in diameter and smaller (PM diameter and smaller (PM10) standards maximum 1-hour nitrogen dioxide (NO2 Quality Standards (NAAQS).</li> <li>No other violations of the ambient air qu construction. Likewise, off-site construct violation of the California ambient air qu quality standards (NAAQS) at intersecti from long-term Operation &amp; Maintenand violations of the CAAQS and NAAQS.</li> <li>Environmental Commitments EC-7: Off- Management Practices to Reduce Green construction emissions through implem of the significant impact levels (SILs) an the project would contribute a significant</li> </ul>
				quality study area. Mitigation Measure AQ-5: Avoid Public I Dioxide Concentrations is required to re- concentrations of PM and NO2 during co- presented in Tables 23-55 through 23-5 meteorological conditions with the high Mitigation Measure AQ-5 requires addit estimate of hourly and annual concentra- construction period. If the refined mode the NO2 NAAQS, the measure requires I

ult in additional vehicle miles traveled (VMT) to the crease the total amount of driving and distances when compared to the regional average of 22.5 miles per ary but long-term and a substantial VMT impact because loyee VMT would exceed the regional VMT average over eriod for Project facilities.

goal that may not be achieved because construction n in a manner that may not be conducive to large-scale the logistics of requiring construction workers to esidence to project construction sites, and the hieved, Impact TRANS-1 is considered significant and

been required in, or incorporated into, the project that the significant environmental effect as identified in the icant and unavoidable despite the adoption of feasible

r CEQA for the Project because construction could eate new violations of the particulate matter (PM) that is PM2.5) and particulate matter that is 10 microns in ds. Construction of the Project would generate (O<sub>2</sub>) concentrations above the National Ambient Air

quality standards would result during project uction traffic would not contribute to a localized quality standards (CAAQS) or national ambient air ctions throughout the transportation network. Emissions ance activities would not cause or contribute to

ff-Road Heavy-Duty Engines through EC-13: DWR Best enhouse Gas (GHG) Emissions would minimize ementation of the on-site controls. However, exceedances and ambient air quality standards would still occur, and cant level of localized air pollution within the local air

ic Exposure to Localized Particulate Matter and Nitrogen reduce potential public exposure to elevated ambient construction. As discussed above, the predicted results 8-58 are conservative because they combine worst-case ghest daily and annual construction emissions estimates. ditional PM and NO2 modeling to provide a more refined trations that are expected to occur during the deling predicts an exceedance of the SIL or violation of S DWR to conduct ambient air quality monitoring during

Detential Draiget Impact	Impact Conclusions Before	Adopted Mitigation Magguras	Impact Conclusion After	Findings of Fost
Potential Project Impact	Mitigation- CEQA	Adopted Mitigation Measures	Mitigation- CEQA	Findings of Fact construction. Results of the monitoring actions to reduce pollutant concentration project-generated air pollution, it may nexceedances of the SILs and ambient air determined to be significant and unavo Findings: Changes or alterations have b
				substantially lessen, but do not avoid, the Final EIR. Impacts are therefore signific mitigation measures.
Noise and Vibration				
Impact NOI-1: Generate a Substantial Temporary or Permanent Increase in Ambient Noise Levels in the Vicinity of the Project in Excess of Standards Established in the Local General Plan or Noise Ordinance, or Applicable Standards of Other Agencies	Significant	MM NOI-1: Develop and Implement a Noise Control Plan	Significant and Unavoidable	Construction-related noise would exceed shaft sites, the Bethany Complex, and as on facility location relative to noise-sen exceedance would vary from 1 week to of nighttime criteria exceedance would basis. The exceedance of daytime and n result in a significant impact. Mitigation Control Plan would reduce noise levels monitoring, best noise control practices
				Mitigation Measure NOI-1 would reduce levels if property owners elect to partic impacts. DWR cannot ensure that prope and accept sound insulation improveme the sound insulation program, the impa Conservatively, the impact due to const unavoidable after mitigation. However, are accepted by all eligible property ow mitigation.
				Findings: Changes or alterations have b substantially lessen, but do not avoid, th Final EIR. Impacts are therefore signific mitigation measures.
Paleontological Resources				
Impact PALEO-2: Cause Destruction of a Unique Paleontological Resource as a Result of Tunnel Construction and Ground Improvement	Significant	No feasible mitigation is available to address this impact.	Significant and Unavoidable	Construction of water conveyance facili paleontological resources because tunn sensitivity for paleontological resources could destroy unique paleontological res 11). Excavation using the tunnel boring paleontological resources because tunn that would not be accessible to monitor paleontological resources. This tunnelin therefore the geologic units affected wo would not be available for scientific stu- paleontological resources would be pre distributed evenly throughout a geologic excavated by tunneling (Table 28-4) tha Formations, which are both sensitive fo

ng would be used to inform decision-making on further ations. While these actions would lower exposure to y not be feasible to completely eliminate all localized air quality standards. Accordingly, this impact is voidable.

been required in, or incorporated into, the project that the significant environmental effect as identified in the ficant and unavoidable despite the adoption of feasible

ceed daytime and nighttime noise level criteria at intakes, associated infrastructure under the Project. Depending ensitive receptors, the duration of daytime criteria to up to 14 years on a nonconsecutive basis. The duration ld vary from 1 week to 5 months on a nonconsecutive nighttime noise level criteria for these durations would on Measure NOI-1: Develop and Implement a Noise els through pre-construction actions, sound-level ces, and installation of noise barriers.

uce the severity of this impact to less-than-significant ticipate in the sound insulation program to reduce noise operty owners will voluntarily participate in the program ments. If a property owner does not elect to participate in pact would remain significant and unavoidable. nstruction noise is determined to be significant and er, if improvements required to avoid significant impacts owners, impacts would be less than significant with

been required in, or incorporated into, the project that the significant environmental effect as identified in the ficant and unavoidable despite the adoption of feasible

cilities could cause the destruction of unique nneling would occur in geologic units with high ces: the Modesto and Riverbank Formations. The Project resources, with varying degrees of magnitude (Table 28ng machine (TBM) for the tunnels could destroy unique nneling would involve large-scale ground disturbance tors and would occur in geologic units sensitive for eling would occur at depths greater than 100 feet and would not be accessible to paleontologists and any fossils tudy. It cannot, however, be known whether present because paleontological resources are not ogic unit. Nevertheless, given the volume of material that would occur in the Modesto and Riverbank for paleontological resources, and the consistency of the

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Adopted Mitigation Measures	Impact Conclusion After Mitigation- CEQA	Findings of Fact
				reusable tunnel material (RTM) generate tunneling could result in a significant im The impacts of tunneling would therefor
				Ground improvement would consist of in into the subsurface to improve stability. Riverbank Formations and paleontologic damage or destroy these resources beca paleontological monitor. No mitigation is ground improvement would therefore b
				Findings: Impacts are significant and una been identified.
Tribal Cultural Resources				
Impact TCR-1: Impacts on the Delta Tribal Cultural Landscape Tribal Cultural Resource Resulting from Construction, Operations, and Maintenance of the Project Alternatives	Significant	MM TCR-1a: Avoidance of Impacts on Tribal Cultural Resources MM TCR-1b: Plans for the Management of Tribal Cultural Resources MM TCR-1c: Implement Measures to Restore and Enhance the Physical, Spiritual, and Ceremonial Qualities of Affected Tribal Cultural Resources MM TCR-1d: Incorporate Tribal Knowledge into Compensatory Mitigation Planning (Restoration)	Significant and Unavoidable	<ul> <li>Project construction and operational act qualify the Delta Tribal Cultural Landsca materially impair affiliated Tribes' ability these character-defining features: the De place of origin, terrestrial and aquatic pl Delta's ecosystem and the heritage of Tr and historically important, archaeologica that are sacred and important to the her mitigation measures to address project equalify as character-defining features for Compensatory Mitigation Plan) these are for ecological conservation and may not DWR will coordinate with Tribes to inco however, these measures may not reduce the project would materially impair char commitments and mitigation measures to impact on the Delta TCL would be signifit this impact: Mitigation Measures TCR-1a: TCR-1b: Plans for the Management of Tr to Restore and Enhance the Physical, Spi Cultural Resources, and TCR-1d: Incorpor Planning (Restoration).</li> <li>Application of these mitigation measures the fining features of the Delta TCL because physically, spiritually, and ceremonially features. However, there may be instance defining feature of the Delta TCL, such as project feature would occur in an ethnol facility would block an important view. If unavoidable after implementation of Mit 1d because complete avoidance or prote the intakes and tunnels may still materia qualities of the Delta TCL even with the ewill continue to consult with affiliated TCL with affiliated Tribes and tunnels may still materia qualities of the Delta TCL even with the ewill continue to consult with affiliated TCL with affiliated</li></ul>

ated by the TBM (i.e., too fine to contain macrofossils), impact. No mitigation is available to address this impact. fore be significant and unavoidable.

f in-situ mixing of amendments, such as cement grout, y. If this improvement occurs in the Modesto or gical resources are present, ground improvement would cause the activity cannot be viewed or stopped by a is available to address this impact. The impacts of be significant and unavoidable.

inavoidable and no feasible mitigation measures have

activities would impair character-defining features that scape (TCL) for listing in the CRHR. The Project would lity to physically, spiritually, or ceremonially experience Delta as a holistic place that is a Tribal homeland and plant and animal species habitats that are part of the Tribes, ethnohistorical locations that are sacred places gical sites, and views and vistas of and from the Delta eritage of Tribes. While other chapters have identified ct effects on several of the natural resources that also for the Tribal cultural resource (such as the are aimed at satisfying certain regulatory requirements ot mitigate for the impacts to Tribal cultural resources. corporate Tribal values into compensatory mitigation; uce the impacts to a less-than-significant level. Because naracter-defining features of the Delta TCL, and project es would not fully avoid or reduce such impacts, the nificant. DWR has identified four measures for mitigating 1a: Avoidance of Impacts on Tribal Cultural Resources, Tribal Cultural Resources, TCR-1c: Implement Measures Spiritual, and Ceremonial Qualities of Affected Tribal porate Tribal Knowledge into Compensatory Mitigation

res has the potential to reduce the impact on characterause they could restore affiliated Tribes' ability to ly experience the materially impaired qualities of the nces where even with the mitigation measures ot be mitigated to a less-than-significant level. There ect components would permanently damage a characteras where ground disturbance and construction of a ohistoric location, disturb an archaeological site, or a v. Project impacts would remain significant and Mitigation Measures TCR-1a, TCR-1b, TCR-1c, and TCRotection is unlikely and operations and maintenance of rially impair the Tribal experience of the spiritual e efforts to repair or restore the Tribal experience. DWR Tribes throughout implementation of Mitigation

California	Department of	of Water	Resources
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Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Adopted Mitigation Measures	Impact Conclusion After Mitigation- CEQA	Findings of Fact
				Measures TCR-1a, TCR-1b, and TCR-1c, significant impacts on the Delta TCL.
				Findings: Changes or alterations have b mitigate, but <i>not</i> to a less than significat identified in the Final EIR. Impacts are t adoption of feasible mitigation measure
Impact TCR-2: Impacts on Individual Tribal Cultural Resources Resulting from Construction, Operations, and Maintenance of the Project Alternatives	Significant	MM TCR-1a: Avoidance of Impacts on Tribal Cultural Resources MMTCR-1b: Plans for the Management of Tribal Cultural Resources MM TCR-1c: Implement Measures to Restore and Enhance the Physical, Spiritual, and Ceremonial Qualities of Affected Tribal Cultural Resources MM TCR-1d: Incorporate Tribal Knowledge into Compensatory Mitigation Planning (Restoration) MM TCR-2: Perform an Assessment of Significance, Known Attributes, and Integrity for Individual CRHR Eligibility	Significant and Unavoidable	The precise nature of the impact on an in- known because DWR has not identified therefore, the features that make an ind Historical Resources (CRHR) listing, its not been established. In general, DWR at the project has the potential to material ceremonially, or spiritually experience to If the conclusion of implementing Mitigs Significance, Known Attributes, and Inter- a character-defining feature or other re- Mitigation Measures TCR-1a, TCR-1b, an individually eligible Tribal cultural reso ability to physically, spiritually, and cer- of the features. However, there may be described above, the impacts would not may also be instances where the project individual Tribal cultural resource, such project feature would disturb an individual unavoidable after implementation of Mi and TCR-2, because complete avoidance consult with affiliated Tribes throughou and mitigate the project's significant im refine DWR's understanding of the char- individual Tribal cultural resources.

Ic, and TCR-1d to minimize and mitigate the project's

been required in, or incorporated into, the project that cant level, the significant environmental effect as e therefore significant and unavoidable despite the ures.

in individual Tribal cultural resource is not currently ed any individual Tribal cultural resources at this time; individual resource eligible for California Register of its significance, attributes and location, and integrity have anticipates that if an individual resource is identified, 'ially impair an affiliated Tribes' ability to physically, ce the resource.

igation Measure TCR-2: Perform an Assessment of ntegrity for Individual CRHR Eligibility is that DWR finds resource that is individually eligible, application of , and TCR-1c, and TCR-1d could reduce the impact on any esources, because they could restore affiliated Tribes' eremonially experience the materially impaired qualities be instances where even with the mitigation measures not be mitigated to a less-than-significant level. There ect components would permanently damage an uch as where ground disturbance and construction of a vidually eligible ethnohistoric location or a facility would racter-defining feature of an individual Tribal cultural al Tribal cultural resources would remain significant and Mitigation Measures TCR-1a, TCR-1b, TCR-1c, TCR-1d, nce or protection is unlikely. DWR will continue to nout implementation of mitigation measures to minimize impacts on the Delta Tribal Cultural Landscape, as well as naracter-defining features, or other features, that may be

been required in, or incorporated into, the project, that cant level, the significant environmental effect as e therefore significant and unavoidable despite the ures.

Table 2: CEQA Findings of Fact for the Pro	ject's Less-than-Significant Im	pacts after Mitigation

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Proposed Mitigation	Impact Conclusion After Mitigation- CEQA	Findings of Fact
Water Quality				
Impact WQ-6: Effects on Mercury Resulting from Facility Operations and Maintenance	Less Than Significant for the Project; Potentially Significant for Implementation of the CMP	MM WQ-6: Develop and Implement a Mercury Management and Monitoring Plan	Less Than Significant	The Project would not cause additional objectives by frequency, magnitude, and on any beneficial uses of waters in the s expected to increase substantially, no lo substantially increased risk for significa Furthermore, changes in long-term met area waterbodies would not make exist worse, or increase levels of mercury by measurably higher body burdens of mer increasing the health risks to wildlife (in Thus, the impact of the Project on mercur While the Project would not result in sig there could be significant impacts with reduced to a less-than-significant level of Findings: Changes or alterations have b avoid the significant environmental effec- than significant with mitigation.
Soils				
Impact SOILS-5: Have Soils Incapable of Adequately Supporting the Use of Septic Tanks or Alternative Wastewater Disposal Systems Where Sewers Are Not Available for the Disposal of Wastewater	Significant	MM SOILS-5: Conduct Site-Specific Soil Analysis and Construct Alternative Wastewater Disposal System as Required	Less Than Significant	Potential impacts of the use of septic tan occur during construction and operation were to be constructed on soils with a r use of the system could contaminate sur odors during operations and maintenan disease transmission and human expose However, county planning and building tests and other analyses to determine si Along with compliance with county req SOILS-5: Conduct Site-Specific Soil Anal System as Required, would reduce the i Findings: Changes or alterations have b avoid the significant environmental effet than significant with mitigation.
Fish and Aquatic Resources				
Impact AQUA-1: Effects of Construction of Water Conveyance Facilities on Fish and Aquatic Species	Significant	MM AQUA-1a: Develop and Implement an Underwater Sound Control and Abatement Plan MM AQUA-1b: Develop and Implement a Barge Operations Plan MM AQUA-1c: Develop and Implement a Fish Rescue and Salvage Plan MM WQ-6: Develop and Implement a Mercury Management and Monitoring Plan CMP-23: Tidal Perennial Habitat Restoration for Construction Impacts on Habitat for Fish and Aquatic Resources	Less Than Significant	Construction impacts on fish and aquati would be the potential for spatial and te of the species of management concern's Appendix 12A) as well as loss of aquatic include Mitigation Measures AQUA-1a: and Abatement Plan, AQUA-1b: Develop Develop and Implement a Fish Rescue a Compensatory Mitigation Plan, specifica Construction Impacts on Habitat for Fis Habitat Restoration for Construction Im (Attachment 3F.1, Compensatory Mitiga

al exceedance of applicable water quality criteria or and geographic extent that would cause significant impacts e study area. Because mercury concentrations are not long-term water quality degradation that would result in icant impacts on beneficial uses would occur. nethylmercury concentrations that may occur in study isting CWA Section 303(d) impairments measurably by frequency, magnitude, and geographic extent to cause nercury in aquatic organisms, thereby substantially (including fish) or humans consuming those organisms. rcury concentrations would be less than significant.

significant water quality effects associated with mercury, th the implementation of the CMP. Those impacts could be el with Mitigation Measure WQ-6.

been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

tanks or alternative wastewater disposal systems would tions and maintenance. If a conventional disposal system rating of very limited for septic tank absorption fields, surface water and groundwater and create objectionable ance. The water contamination could raise the risk of osure to pathogens. The impact would be significant. ng departments typically require on-site soil percolation e site suitability and type of system appropriate to the site. equirements, implementation of Mitigation Measure nalysis and Construct Alternative Wastewater Disposal e impact to a less-than-significant level.

been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

atic species potentially would be significant because there l temporal overlap with appreciable proportions of some n's populations (e.g., adult steelhead; Table 12A-9 in tic habitat. To address these impacts, the project will a: Develop and Implement an Underwater Sound Control lop and Implement a Barge Operations Plan, AQUA-1c: e and Salvage Plan, and Mitigation Measure CMP: fically CMP-23: Tidal Perennial Habitat Restoration for Fish and Aquatic Resources and CMP-24: Channel Margin Impacts on Habitat for Fish and Aquatic Resources igation Design Guidelines, Table 3F.1-3). Mitigation

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Proposed Mitigation	Impact Conclusion After Mitigation- CEQA	Findings of Fact
		CMP-24: Channel Margin Habitat Restoration for Construction Impacts on Habitat for Fish and Aquatic Resources		Measure AQUA-1a: Develop and Impleme includes limiting pile-driving timing cons underwater noise generated during impa driving at lower levels of intensity to allo increased.
				Construction impacts on fish and aquation
				Findings: Changes or alterations have be avoid the significant environmental effec than significant with mitigation.
Impact AQUA-2: Effects of Operations and Maintenance of Water Conveyance Facilities on Sacramento River Winter- Run Chinook Salmon	Significant	CMP-25: Tidal Habitat Restoration to Mitigate North Delta Hydrodynamic Effects on Chinook Salmon Juveniles CMP-26: Channel Margin Habitat Restoration for Operations Impacts on Chinook Salmon Juveniles	Less Than Significant	The available information generally india would negatively affect winter-run Chino The Sacramento River is the main migrat and therefore a large proportion of the p impacts.
				To address the significance of the impact Plan would be implemented, specifically Delta Hydrodynamic Effects on Chinook Restoration or Operations Impacts on Ch 3). This mitigation would reduce negativ Sacramento River at Georgiana Slough (C of riparian/wetland benches as a result of would reduce potential for negative effect survival as a result of factors such as flow of entering the low-survival interior Delt at elevations that would be inundated un intakes. The impact of operations and ma with mitigation.
				Findings: Changes or alterations have be avoid the significant environmental effec than significant with mitigation.
Impact AQUA-3: Effects of Operations and Maintenance of Water Conveyance Facilities on Central Valley Spring-Run Chinook Salmon	Significant	CMP-25: Tidal Habitat Restoration to Mitigate North Delta Hydrodynamic Effects on Chinook Salmon Juveniles CMP-26: Channel Margin Habitat Restoration for Operations Impacts on Chinook Salmon Juveniles	Less Than Significant	Recent research for two spring-run Chin that the majority of returning adults emi migrate beginning in fall and therefore h Delta diversions with greater potential e et al. (2018) modeling results. As a result impacts because of the variability in flow winter-run Chinook salmon), population (Appendix 12A) and it is concluded that would be significant for spring-run Chinook AQUA-2 (i.e., Mitigation Measure CMP: Ca Tidal Habitat Restoration to Mitigate Non Juveniles and CMP-26: Channel Margin H Salmon Juveniles [Attachment 3F.1, Tabl salmon to mitigate hydrodynamic effects Georgiana Slough (CMP-25) and effects f

ement an Underwater Sound Control and Abatement Plan onsistent with EC-14 and controlling or abating npact pile driving, for example, by starting impact pile allow fish to leave the area before the intensity is

tic species would be less than significant with mitigation.

been required in, or incorporated into, the project that fect as identified in the Final EIR. Impacts will be less

dicates that diversion at the North Delta Diversion (NDD) inook salmon through flow-survival and habitat impacts. gration pathway through the Delta for juvenile winter-run e population would potentially be exposed to negative

acts, Mitigation Measure CMP: Compensatory Mitigation lly CMP-25: Tidal Habitat Restoration to Mitigate North ok Salmon Juveniles and CMP-26: Channel Margin Habitat Chinook Salmon Juveniles (Attachment 3F.1, Table 3F.1tive hydrodynamic effects such as flow reversals in the a (CMP-25) and reduced effects from reduced inundation lt of NDD operations (CMP-26). The mitigation thereby ffects on winter-run Chinook salmon through-Delta low-related changes in migration speed and probability velta migration pathway and restoring new bench habitat under reduced flows downstream of the north Delta maintenance of the Project would be less than significant

been required in, or incorporated into, the project that fect as identified in the Final EIR. Impacts will be less

inook salmon populations in the Central Valley indicates migrated as yearlings (Cordoleani et al. 2021), which have the potential to overlap periods of greater north effects on through-Delta survival as shown by the Perry sult, and although there is uncertainty in biological ow-survival statistical relationships (see discussion for on abundance is low relative to historical values at the operations and maintenance impact of the Project inook salmon. Compensatory mitigation to be ook salmon significant impact discussed above in Impact : Compensatory Mitigation Plan, specifically CMP-25: North Delta Hydrodynamic Effects on Chinook Salmon Habitat Restoration for Operations Impacts on Chinook able 3F.1-3]) would also be applied to spring-run Chinook cts such as flow reversals in the Sacramento River at s from reduced inundation of riparian/wetland benches

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Proposed Mitigation	Impact Conclusion After Mitigation- CEQA	Findings of Fact
				as a result of North Delta Diversion oper significant with mitigation.
				Findings: Changes or alterations have be avoid the significant environmental effe than significant with mitigation.
Impact AQUA-5: Effects of Operations and Maintenance of Water Conveyance Facilities on Central Valley Steelhead	Significant	MM CMP: Compensatory Mitigation Plan	Less Than Significant	As discussed by National Marine Fisheri danger of extinction, with very low level steelhead are limited relative to Chinool effects. As previously noted for winter-r biological impacts because of the variab per the significance criteria (Section 12. negative effects of the north Delta intake per the Perry et al. model implemented (Appendix 12A) leads to the conclusion mitigation (tidal perennial habitat restor Appendix 3F, and as previously discusse implemented to reduce the impact to les Findings: Changes or alterations have be avoid the significant environmental effe
Impact AQUA-6: Effects of Operations and Maintenance of Water Conveyance Facilities on Delta Smelt	Significant	MM CMP: Compensatory Mitigation Plan CMP-27: Tidal Habitat Restoration for Operations Impacts on Delta Smelt	Less Than Significant	<ul> <li>than significant with mitigation.</li> <li>There is generally somewhat less Delta of during spring-fall as a result of less outfor requirements. There is considerable undown smelt food availability, predation, and rewhich are within the existing parameter water project permits). Given the existing (Appendix 12A), the impacts are conclust approximately 1,100 to 1,400 acres und Plan, specifically CMP-27 (Attachment 3 Restoration would increase the extent of subtidal habitat; California Department (e.g., turbidity) providing habitat for occursionate with mitigation.</li> <li>Findings: Changes or alterations have been approximate of the existing of the exist of the</li></ul>
Impact AQUA-7: Effects of Operations and Maintenance of Water Conveyance Facilities on Longfin Smelt	Significant	MM CMP: Compensatory Mitigation Plan CMP-28: Tidal Habitat Restoration for Operations Impacts on Longfin Smelt	Less Than Significant	<ul> <li>avoid the significant environmental effective than significant with mitigation.</li> <li>In general, the analyses of the operation minor impacts on longfin smelt, relative the north Delta intakes, south Delta entre food availability as a result of difference</li> </ul>
				be significant because they are minor ar longfin smelt population. The analyses of longfin smelt abundance suggested mor mean difference of 2%–10% less depend impact given that they represent a popu however, given the appreciably greater

perations (CMP-26). The impact would be less than

been required in, or incorporated into, the project that fect as identified in the Final EIR. Impacts will be less

eries Service (2016:19), Central Valley steelhead is in vels of natural production. Available data and studies for ook salmon and so there is some uncertainty in potential r-run Chinook salmon, there is uncertainty in the ability in flow-survival statistical relationships. However, 2.3.2, Thresholds of Significance), the potential for akes (e.g., up to 4% less through-Delta migration survival ed for juvenile Chinook salmon) and the population status on that the impact would be significant. Compensatory toration and channel margin restoration) described in ssed for winter-run Chinook salmon would be less than significant.

been required in, or incorporated into, the project that fect as identified in the Final EIR. Impacts will be less

a outflow under the Project than existing conditions Itflow being needed for meeting Delta salinity incertainty in the potential for negative effects to delta recruitment as a result of these changes in Delta outflow. ers of current regulations (e.g., D-1641; federal and state ting all-time low abundance indices of delta smelt luded to be significant. Tidal habitat restoration of nder Mitigation Measure CMP: Compensatory Mitigation 3F-1, Table 3F.1-3), would mitigate these impacts. of suitable delta smelt habitat (e.g., intertidal and t of Fish and Game 2011) with appropriate parameters occupancy (e.g., Sommer and Mejia 2013) or higher food ock et al. 2019b). The impact would be less than

been required in, or incorporated into, the project that fect as identified in the Final EIR. Impacts will be less

ons and maintenance impacts of the Project suggested ve to existing conditions, including near-field effects of trainment, and very little potential for negative effects on ces in spring Delta outflow. Any such impacts would not and would affect only a very small proportion of the s of flow-related effects (differences in Delta outflow) on ore potential for negative effects under the Project (i.e., ending on water year type) and a potentially significant pulation-level impact. There is uncertainty in the impact, er variability of longfin smelt abundance index estimates

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Proposed Mitigation	Impact Conclusion After Mitigation- CEQA	Findings of Fact
Terrestrial Biological Resources				for a given alternative relative to the dif Project would be consistent with all app effects on fish and aquatic resources, ind by the California Department of Fish and the uncertain negative outflow-related of California Endangered Species Act-listed (Appendix 12A). As such, the Project wo compensatory mitigation (Mitigation M CMP-28: Tidal Habitat Restoration for O Table 3F.1-3]). Tidal habitat would expa rearing and refuge habitat consistent wi impacts to the species and would theref outflow. As shown by multiple recent the potential feasible opportunities for tidal with demonstrated presence of longfin a reduce the impact to a less-than-signific significant with mitigation.
Impact BIO-1: Impacts of the Project on the Tidal Perennial Aquatic Natural Community	Significant	MM CMP: Compensatory Mitigation Plan	Less Than Significant	The Project would cause the removal, co aquatic natural community due to proje disturbances of tidal perennial aquatic h Commitments EC-1: Conduct Worker Av Hazardous Materials Management Plans Containment, and Countermeasure Plan for Biological Resources (Appendix 3B). however, the loss of tidal perennial aqua impacts from maintenance activities wo Compensatory Mitigation Plan would of aquatic habitat. Therefore, the impacts of Project would be less than significant w Findings: Changes or alterations have be avoid the significant environmental effet than significant with mitigation.
Impact BIO-2: Impacts of the Project on Tidal Freshwater Emergent Wetlands	Significant	MM CMP: Compensatory Mitigation Plan MM BIO-2a: Avoid or Minimize Impacts on Special- Status Natural Communities and Special-Status Plants MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities MM BIO-2c: Electrical Power Line Support Placement	Less Than Significant	The Project would cause the removal, co freshwater emergent wetlands due to p disturbances and indirect impacts on tio Environmental Commitments EC-1: Con Implement Hazardous Materials Manag Prevention, Containment, and Countern Management Practices for Biological Re however, the loss of tidal freshwater em impacts from maintenance activities wo Minimize Impacts on Special-Status Nat reduce impacts on tidal freshwater eme Measure BIO-2b: Avoid and Minimize Im

lifference from existing conditions. Operations of the pplicable regulations to limit the potential for negative including the existing spring outflow measures required and Wildlife Incidental Take Permit (ITP). Nevertheless, ed effect is considered significant in light of the species' ted status and low population abundance indices would implement approximately 135.2 acres of Measure CMP: Compensatory Mitigation Plan, specifically Operations Impacts on Longfin Smelt [Attachment 3F.1, pand the diversity, quantity, and quality of longfin smelt with recent tidal habitat mitigation required for outflow refore reduce the potential effects caused by reduced tidal habitat restoration projects in the Delta, there are al habitat restoration directly applicable to longfin smelt, in smelt. This tidal habitat restoration mitigation would ificant level; therefore, the impact would be less than

been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

conversion, and temporary disturbance of tidal perennial pject construction and maintenance. The temporary c habitat would be reduced by Environmental Awareness Training; EC-2: Develop and Implement ans; EC-3: Develop and Implement Spill Prevention, lans; and EC-14: Construction Best Management Practices B). Even with these environmental commitments, quatic community from construction and potential would be significant. Mitigation Measure CMP: offset permanent and temporary loss of tidal perennial ts on the tidal perennial aquatic community from the with mitigation.

been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

, conversion, and temporary disturbance of tidal project construction and maintenance. Temporary tidal freshwater emergent wetlands would be reduced by onduct Worker Awareness Training; EC-2: Develop and gement Plans: EC-3: Develop and Implement Spill rmeasure Plans; and EC-14: Construction Best Resources. Even with these environmental commitments, emergent wetlands from construction and potential vould be significant. Mitigation Measure BIO-2a: Avoid or atural Communities and Special-Status Plants would nergent wetlands during project construction. Mitigation Impacts on Terrestrial Biological Resources from impacts on tidal freshwater emergent wetland during

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Proposed Mitigation	Impact Conclusion After Mitigation- CEQA	Findings of Fact
				project maintenance. Mitigation Measure would minimize impacts on tidal freshw installation. Mitigation Measure CMP: Co and temporary loss of tidal freshwater e freshwater emergent wetland from the F
				Findings: Changes or alterations have be avoid the significant environmental effect than significant with mitigation.
Impact BIO-3: Impacts of the Project on Valley/Foothill Riparian Habitat	Significant	MM CMP: Compensatory Mitigation Plan MM BIO-2a: Avoid or Minimize Impacts on Special- Status Natural Communities and Special-Status Plants	Less Than Significant	Constructing the Project would cause the valley/foothill riparian habitat. Mainten- disturbances to valley/foothill riparian h on valley/foothill riparian habitat would Conduct Worker Awareness Training an Biological Resources. Even with these er valley/foothill riparian habitat from con activities would be significant. Mitigation Special-Status Natural Communities and valley/foothill riparian habitat during pr and Minimize Impacts on Terrestrial Bio reduce impacts on valley/foothill riparia Measure BIO-2c: Electrical Power Line S valley/foothill riparian habitat from elec Compensatory Mitigation Plan would off riparian habitat. Therefore, the impacts would be less than significant with mitig Findings: Changes or alterations have be avoid the significant environmental effect than significant with mitigation.
Impact BIO-4: Impacts of the Project on the Nontidal Perennial Aquatic Natural Community	Significant	MM CMP: Compensatory Mitigation Plan MM BIO-2a: Avoid or Minimize Impacts on Special- Status Natural Communities and Special-Status Plants	Less Than Significant	Constructing the Project would cause the nontidal aquatic perennial habitat. Main disturbances to nontidal perennial aquatic impacts on nontidal perennial aquatic ha Commitments EC-1: Conduct Worker Aw Hazardous Materials Management Plans Containment, and Countermeasure Plans for Biological Resources. Even with these nontidal perennial aquatic habitat from activities would be significant. Mitigation Special-Status Natural Communities and nontidal perennial aquatic habitat by ide communities and special-status plants w Compensatory Mitigation Plan, nontidal and permanently protected to compensa ensure no significant loss of nontidal per the impacts on nontidal perennial aquatic significant with mitigation.

ure BIO-2c: Electrical Power Line Support Placement water emergent wetlands from electric power line Compensatory Mitigation Plan would offset permanent r emergent wetland. Therefore, the impacts on tidal e Project would be less than significant with mitigation.

been required in, or incorporated into, the project that fect as identified in the Final EIR. Impacts will be less

the removal, conversion, and temporary disturbance of enance activities could result in periodic temporary n habitat. Temporary disturbances and indirect impacts ald be reduced by Environmental Commitments EC-1: and EC-14: Construction Best Management Practices for environmental commitments, however, the loss of onstruction and potential impacts from maintenance ion Measure BIO-2a: Avoid or Minimize Impacts on nd Special-Status Plants would reduce impacts on project construction. Mitigation Measure BIO-2b: Avoid Biological Resources from Maintenance Activities would rian habitat during project maintenance. Mitigation e Support Placement would minimize impacts on lectric power line installation. Mitigation Measure CMP: offset permanent and temporary loss of valley/foothill ts on valley/foothill riparian habitat from the Project tigation.

been required in, or incorporated into, the project that fect as identified in the Final EIR. Impacts will be less

the removal, conversion, and temporary disturbance of aintenance activities could result in periodic temporary uatic habitat. Temporary disturbances and indirect habitat would be reduced by Environmental Awareness Training; EC-2: Develop and Implement ns; EC-3: Develop and Implement Spill Prevention, ans; and EC-14: Construction Best Management Practices ese environmental commitments, however, the loss of m construction and potential impacts from maintenance ion Measure BIO-2a: Avoid or Minimize Impacts on nd Special-Status Plants would mitigate impacts on identifying locations where special-status natural would be avoided. Under Mitigation Measure CMP: al perennial aquatic habitat would be created or acquired nsate for project impacts from project construction to perennial aquatic habitat functions and values. Therefore, atic habitat from the Project would be less than

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Proposed Mitigation	Impact Conclusion After Mitigation- CEQA	Findings of Fact
				Findings: Changes or alterations have be avoid the significant environmental effe than significant with mitigation.
Impact BIO-5: Impacts of the Project on Nontidal Freshwater Perennial Emergent Wetland	Significant	MM CMP: Compensatory Mitigation Plan MM BIO-2a: Avoid or Minimize Impacts on Special- Status Natural Communities and Special-Status Plants	Less Than Significant	Constructing the Project would cause th nontidal freshwater perennial emergent periodic temporary disturbances to this impacts on nontidal freshwater perenni Environmental Commitments EC-1: Con Implement Hazardous Materials Manage Prevention, Containment, and Counterm Construction Best Management Practice environmental commitments, however, wetland from construction and potentia significant. Mitigation Measure BIO-2a: A Communities and Special-Status Plants v emergent wetlands by identifying locati- special-status plants would be avoided of implemented. Under Mitigation Measure perennial emergent wetlands would be compensate for project impacts from pr nontidal perennial aquatic habitat funct freshwater perennial emergent wetland mitigation. Findings: Changes or alterations have be avoid the significant environmental effe than significant with mitigation.
Impact BIO-7: Impacts of the Project on Alkaline Seasonal Wetland Complex	Significant	MM CMP: Compensatory Mitigation Plan MM BIO-2a: Avoid or Minimize Impacts on Special- Status Natural Communities and Special-Status Plants MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities MM BIO-2c: Electrical Power Line Support Placement	Less Than Significant	Project construction and maintenance w seasonal wetland complex. Temporary of wetland complex would be reduced by F Awareness Training; EC-2: Develop and EC-3: Develop and Implement Spill Prev EC-14: Construction Best Management F environmental commitments, however, construction and potential impacts from Measure BIO-2a: Avoid or Minimize Imp Special-Status Plants would reduce impa construction. Mitigation Measure BIO-21 Resources from Maintenance Activities during project maintenance. Mitigation Placement would minimize impacts on a installation. Under Mitigation Measure O wetland complex would be created or ac project impacts from project constructio aquatic habitat functions and values. Th criteria presented in the CMP. Therefore from the Project would be less than sign
				Findings: Changes or alterations have be avoid the significant environmental effe than significant with mitigation.

been required in, or incorporated into, the project that fect as identified in the Final EIR. Impacts will be less

the removal, conversion, and temporary disturbance of ent wetlands. Maintenance activities could result in is community. Temporary disturbances and indirect nial emergent wetland would be reduced by onduct Worker Awareness Training; EC-2: Develop and agement Plans; EC-3: Develop and Implement Spill rmeasure Plans; and Environmental Commitment EC-14: ces for Biological Resources. Even with these er, the loss of nontidal freshwater perennial emergent tial impacts from maintenance activities would be a: Avoid or Minimize Impacts on Special-Status Natural s would mitigate impacts on nontidal freshwater ations where special-status natural communities and d or where measures to minimize impact would be re CMP: Compensatory Mitigation Plan, nontidal e created or acquired and permanently protected to project construction and ensure no significant loss of ctions and values. Therefore, the impacts on nontidal nd from the Project would be less than significant with

been required in, or incorporated into, the project that fect as identified in the Final EIR. Impacts will be less

would remove, convert, or temporarily disturb alkaline v disturbances and indirect impacts on alkaline seasonal y Environmental Commitments EC-1: Conduct Worker d Implement Hazardous Materials Management Plans; evention, Containment, and Countermeasure Plans; and t Practices for Biological Resources. Even with these er, the loss of alkaline seasonal wetland complex from om maintenance activities would be significant. Mitigation npacts on Special-Status Natural Communities and pacts on alkaline seasonal wetlands during project -2b: Avoid and Minimize Impacts on Terrestrial Biological es would reduce impacts on alkaline seasonal wetlands n Measure BIO-2c: Electrical Power Line Support n alkaline seasonal wetland from electric power line e CMP: Compensatory Mitigation Plan, alkaline seasonal acquired and permanently protected to compensate for tion and ensure no significant loss of nontidal perennial The total acreage to be conserved would be based on the ore, the impacts on alkaline seasonal wetland complex gnificant with mitigation.

been required in, or incorporated into, the project that fect as identified in the Final EIR. Impacts will be less

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Proposed Mitigation	Impact Conclusion After Mitigation- CEQA	Findings of Fact
Impact BIO-8: Impacts of the Project on Vernal Pool Complex	Significant	MM CMP: Compensatory Mitigation Plan MM BIO-2a: Avoid or Minimize Impacts on Special- Status Natural Communities and Special-Status Plants MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities	Less Than Significant	Constructing the Project would cause the vernal pool complex. Maintenance activiti this community. Temporary disturbances be reduced by Environmental Commitmen Develop and Implement Hazardous Mater Implement Spill Prevention, Containment Best Management Practices for Biological commitments, however, the loss of vernal impacts from maintenance activities wou Minimize Impacts on Special-Status Natur reduce impacts on vernal pool complex du 2b: Avoid and Minimize Impacts on Terre Activities would reduce impacts on verna described in Appendix 3F and Attachmen Mitigation Plan, vernal pool complex wou to compensate for project impacts from p vernal pool complex functions and values the criteria presented in the CMP. Therefor Project would be less than significant with Findings: Changes or alterations have bee avoid the significant environmental effect than significant with mitigation.
Impact BIO-9: Impacts of the Project on Special-Status Vernal Pool Plants	Significant	MM CMP: Compensatory Mitigation Plan MM BIO-2a: Avoid or Minimize Impacts on Special- Status Natural Communities and Special-Status Plants MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities	Less Than Significant	Temporary disturbances and indirect imp reduced by Environmental Commitment F Biological Resources. Even with this envir vernal pool plants from construction and be significant. Mitigation Measure BIO-2a: Communities and Special-Status Plants we plants during project construction. Mitiga Terrestrial Biological Resources from Mai status vernal pool plants during project m Compensatory Mitigation Plan, habitat for and permanently protected or mitigation impacts and ensure no significant loss of F 3F.1. Therefore, the Project's impacts on s significant with mitigation.
Impact BIO-10: Impacts of the Project on Special-Status Alkaline Seasonal Wetland Complex Plants	Significant	MM CMP: Compensatory Mitigation Plan MM BIO-2a: Avoid or Minimize Impacts on Special- Status Natural Communities and Special-Status Plants MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities	Less Than Significant	Temporary disturbances and indirect imp plants would be reduced by Environment Management Practices for Biological Reso however, the loss of alkaline wetland plan maintenance activities would be significan Impacts on Special-Status Natural Commu impacts on special-status alkaline seasona construction. Mitigation Measure BIO-2b: Resources from Maintenance Activities w seasonal wetland complex plants during p

he removal, conversion, and temporary disturbance of vities could result in periodic temporary disturbances to es and indirect impacts on vernal pool complex would nents EC-1: Conduct Worker Awareness Training; EC-2: terials Management Plans; EC-3: Develop and ent, and Countermeasure Plans; and EC-14: Construction cal Resources. Even with these environmental nal pool complex from construction and potential ould be significant. Mitigation Measure BIO-2a: Avoid or tural Communities and Special-Status Plants would during project construction. Mitigation Measure BIOrestrial Biological Resources from Maintenance nal pool complex during project maintenance. As ent 3F.1, under Mitigation Measure CMP: Compensatory ould be created or acquired and permanently protected project construction and ensure no significant loss of es. The total acreage to be conserved would be based on efore, the impacts on vernal pool complex from the vith mitigation.

een required in, or incorporated into, the project that ect as identified in the Final EIR. Impacts will be less

mpacts on special-status vernal pool plants would be nt EC-14: Construction Best Management Practices for vironmental commitment, however, the effects on nd potential impacts from maintenance activities would 2a: Avoid or Minimize Impacts on Special-Status Natural would reduce impacts on special-status vernal pool igation Measure BIO-2b: Avoid and Minimize Impacts on laintenance Activities would reduce impacts on specialt maintenance. Under Mitigation Measure CMP: for special-status vernal pool plants would be created on credits would be acquired to compensate for project of habitat, as described in Appendix 3F and Attachment n special-status vernal pool plants would be less than

een required in, or incorporated into, the project that ect as identified in the Final EIR. Impacts will be less

mpacts special-status alkaline seasonal wetland complex ental Commitment EC-14: Construction Best esources. Even with this environmental commitment, lants from construction and potential impacts from cant. Mitigation Measure BIO-2a: Avoid or Minimize munities and Special-Status Plants, would reduce onal wetland complex plants during project b: Avoid and Minimize Impacts on Terrestrial Biological would reduce impacts on special-status alkaline g project maintenance. Under Mitigation Measure CMP:

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Proposed Mitigation	Impact Conclusion After Mitigation- CEQA	Findings of Fact
				Compensatory Mitigation Plan, habitat f would be created and permanently prot compensate for project impacts and ens Appendix 3F and Attachment 3F.1. Ther seasonal wetland plants would be less t
				Findings: Changes or alterations have be avoid the significant environmental effe than significant with mitigation.
Impact BIO-11: Impacts of the Project on Special-Status Grassland Plants	Significant	MM CMP: Compensatory Mitigation Plan MM BIO-2a: Avoid or Minimize Impacts on Special- Status Natural Communities and Special-Status Plants MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities	Less Than Significant	Temporary disturbances and indirect in reduced by Environmental Commitmen Biological Resources. Even with this envi grassland plants from construction and significant. Mitigation Measure BIO-2a: Communities and Special-Status Plants plants during project construction. Mitig Terrestrial Biological Resources from M status grassland plants during project m Compensatory Mitigation Plan, habitat f permanently protected or mitigation creating impacts and to ensure no significant los status grassland plants would be less th Findings: Changes or alterations have be
				avoid the significant environmental effe than significant with mitigation.
Impact BIO-12: Impacts of the Project on Tidal Freshwater Emergent Wetland Plants	Significant	MM CMP: Compensatory Mitigation Plan MM BIO-2a: Avoid or Minimize Impacts on Special- Status Natural Communities and Special-Status Plants MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities	Less Than Significant	Temporary disturbances and indirect in wetland plants would be reduced by En Management Practices for Biological. Ev loss of tidal freshwater emergent plants maintenance activities would be signific Impacts on Special-Status Natural Comr impacts on special-status tidal freshwat construction. Mitigation Measure BIO-2 Resources from Maintenance Activities wetland during project maintenance. Un Plan (Appendix 3F, Section 3F.3.2.5; Att Emergent Wetland, and Table 3F.1-3, CI tidal freshwater emergent wetland plan protected to compensate for project imp tidal perennial aquatic wetland habitat special-status tidal freshwater emergen mitigation.
				Findings: Changes or alterations have b avoid the significant environmental effe than significant with mitigation.
Impact BIO-13: Impacts of the Project on Special-Status Nontidal Perennial Aquatic Plants	Significant	MM CMP: Compensatory Mitigation Plan MM BIO-2a: Avoid or Minimize Impacts on Special- Status Natural Communities and Special-Status Plants	Less Than Significant	Temporary disturbances and indirect in reduced by Environmental Commitmen Biological Resources. Even with this env

at for special-status alkaline seasonal wetland plants rotected or mitigation credits would be acquired to ensure no significant loss of habitat, as described in nerefore, the project's impacts on special-status alkaline than significant with mitigation.

been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

impacts on special-status grassland plants would be ent EC-14: Construction Best Management Practices for nvironmental commitment, however, the loss of nd potential impacts from maintenance activities would be a: Avoid or Minimize Impacts on Special-Status Natural ts would reduce impacts on special-status grassland itigation Measure BIO-2b: Avoid and Minimize Impacts on Maintenance Activities would reduce impacts on specialmaintenance. Under Mitigation Measure CMP: t for special-status grassland plants would be created and credits would be acquired to compensate for project oss of habitat. Therefore, the Project's impacts on specialthan significant with mitigation.

been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

impacts on special-status tidal freshwater emergent Environmental Commitment EC-14: Construction Best Even with this environmental commitment, however, the nts from construction and potential impacts from ficant. Mitigation Measure BIO-2a: Avoid or Minimize nmunities and Special-Status Plants would reduce rater emergent wetland species during project -2b: Avoid and Minimize Impacts on Terrestrial Biological es would reduce impacts on tidal freshwater emergent Under Mitigation Measure CMP: Compensatory Mitigation Attachment 3F.1, Table 3F.1-2, CMP-2: Tidal Freshwater CMP-9: Special-Status Plants), habitat for special-status ants would be created or acquired and permanently mpacts and ensure no significant loss of special-status at functions and values. Therefore, project impacts on ent wetland plants would be less than significant with

been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

impacts of nontidal perennial aquatic habitat would be ent EC-14: Construction Best Management Practices for nvironmental commitment, however, the loss nontidal

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Proposed Mitigation	Impact Conclusion After Mitigation- CEQA	Findings of Fact
		MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities		perennial aquatic plants from construct would be significant. Mitigation Measur Natural Communities and Special-Statu nontidal perennial aquatic plants durin Avoid and Minimize Impacts on Terrest would reduce impacts on special-status maintenance. Under Mitigation Measur special-status nontidal perennial aquat protected to compensate for project im nontidal perennial aquatic plants or the these special-status nontidal perennial mitigation.
				Findings: Changes or alterations have b avoid the significant environmental effe than significant with mitigation.
Impact BIO-14: Impacts of the Project Son Vernal Pool Aquatic Invertebrates	Significant	MM CMP: Compensatory Mitigation Plan MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities MM BIO-14: Avoid and Minimize Impacts on Vernal Pool Aquatic Invertebrates and Critical Habitat for Vernal Pool Fairy Shrimp	Less Than Significant	The impacts on vernal pool aquatic investignificant with mitigation because the effects on the species, including habitate during construction and maintenance testablishing non-disturbance buffers are suitable habitat for vernal pool fairy shadverse modification of critical habitate habitate through work area redesigns, to
				Findings: Changes or alterations have b avoid the significant environmental effe than significant with mitigation.
Impact BIO-16: Impacts of the Project on Vernal Pool Terrestrial Invertebrates	Significant	MM CMP: Compensatory Mitigation Plan MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities MM BIO-14: Avoid and Minimize Impacts on Vernal Pool Aquatic Invertebrates and Critical Habitat for Vernal Pool Fairy Shrimp	Less Than Significant	The impacts on vernal pool terrestrial i significant with mitigation because mit direct effects on the species, including h activities during construction and main include establishing non-disturbance b avoiding indirect effects on vernal pool
				Findings: Changes or alterations have b avoid the significant environmental effo than significant with mitigation.
Impact BIO-18: Impacts of the Project on Valley Elderberry Longhorn Beetle	Significant	MM CMP: Compensatory Mitigation Plan CMP-18a: Sandhill Crane Roosting Habitat CMP-18b: Sandhill Crane Foraging Habitat CMP-19a: Swainson's Hawk Nesting Habitat CMP-19b: Swainson's Hawk Foraging Habitat CMP-22a: Tricolored Blackbird Nesting Habitat CMP-22b: Tricolored Blackbird Breeding Foraging Habitat	Less Than Significant	The impacts on valley elderberry longh significant with mitigation because the reduce direct effects on the species, inc activities that could injure or kill valley non-disturbance buffers around shrubs to stems less likely to contain larvae (< is less likely to affect the vigor of shrub species active season when they are in
		MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities		Findings: Changes or alterations have t avoid the significant environmental effort than significant with mitigation.

action and potential impacts from maintenance activities sure BIO-2a: Avoid or Minimize Impacts on Special-Status itus Plants would reduce impacts on special-status ing project construction. Mitigation Measure BIO-2b: estrial Biological Resources from Maintenance Activities us nontidal perennial aquatic plants during project ure CMP: Compensatory Mitigation Plan, habitat for atic plants would be created or acquired and permanently mpacts and ensure no significant loss of special-status heir habitat functions and values. The project impacts on al aquatic plants would be less than significant with

been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

nvertebrates from the Project would be less than ne measures would replace lost habitat and reduce direct at disturbance, by avoiding and minimizing activities e that could adversely affect habitat, which include around pools with construction fencing, by surveying shrimp and vernal pool tadpole shrimp, and by avoiding at and indirect effects on vernal pool aquatic invertebrate to the extent practicable.

e been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

al invertebrates from the Project would be less than itigation measures would replace lost habitat and reduce g habitat disturbance, by avoiding and minimizing intenance that could adversely affect habitat, which buffers around habitat with construction fencing, and by ol habitat to the extent practicable.

e been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

ghorn beetle from the Project would be less than nese mitigation measures would replace lost habitat and ncluding habitat disturbance, by avoiding and minimizing ey elderberry longhorn beetle, which includes establishing bs with construction fencing, limiting trimming of shrubs (<1 inch in diameter) and during periods when trimming ibs, and avoiding work to the extent possible during the n flight around shrubs and dispersing.

e been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Proposed Mitigation	Impact Conclusion After Mitigation- CEQA	Findings of Fact
		MM BIO-18: Avoid and Minimize Impacts on Valley Elderberry Longhorn Beetle		
Impact BIO-20: Impacts of the Project on Curved-Foot Hygrotus Diving Beetle	Significant	MM CMP: Compensatory Mitigation Plan MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities MM BIO-14: Avoid and Minimize Impacts on Vernal Pool Aquatic Invertebrates and Critical Habitat for Vernal Pool Fairy Shrimp	Less Than Significant	The impacts on curved-foot hygrotus be mitigation because these mitigation mea including habitat disturbance, by avoidin maintenance that could adversely affect aquatic habitat with construction fencing maintenance activities.
				Findings: Changes or alterations have be avoid the significant environmental effec than significant with mitigation.
Impact BIO-21: Impacts of the Project on Crotch Bumble Bee	Significant	MM CMP: Compensatory Mitigation Plan MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities MM BIO-21: Avoid and Minimize Impacts on Crotch Bumble Bee	Less Than Significant	The impacts on Crotch bumble bee from mitigation because these mitigation mea effects on the species, including habitat of habitat to the extent possible during main establishing avoidance buffers, by tempor replanting areas of disturbed habitat with
				Findings: Changes or alterations have be avoid the significant environmental effect than significant with mitigation.
Impact BIO-22: Impacts of the Project on California Tiger Salamander	Significant	MM CMP: Compensatory Mitigation Plan MM AES-4b: Minimize Fugitive Light from Portable Sources Used for Construction MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities MM BIO-22a: Avoid and Minimize Impacts on California Tiger Salamander MM BIO-22b: Avoid and Minimize Operational Traffic Impacts on Wildlife	Less Than Significant	The impacts on California tiger salamane mitigation because these mitigation mea effects on the species, including habitat of into habitats and thus avoiding disruptine maintenance activities in and adjacent to activities, installing exclusion fencing, co protective measures to avoid and minime putting in place traffic control measures potential for vehicle strikes.
				Findings: Changes or alterations have be avoid the significant environmental effec than significant with mitigation.
Impact BIO-23: Impacts of the Project on Western Spadefoot Toad	Significant	MM CMP: Compensatory Mitigation Plan MM AES-4b: Minimize Fugitive Light from Portable Sources Used for Construction MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities MM BIO-22b: Avoid and Minimize Operational Traffic Impacts on Wildlife MM BIO-23: Avoid and Minimize Impacts on Western Spadefoot Toad	Less Than Significant	The impacts on western spadefoot toad mitigation because these mitigation mea effects on the species, including habitat of into habitats, thus avoiding disrupting d maintenance activities in and adjacent to activities, installing exclusion fencing, co protective measures to avoid and minim putting in place traffic control measures potential for vehicle strikes.
				Findings: Changes or alterations have be avoid the significant environmental effect than significant with mitigation.

beetle from the Project would be less than significant with neasures would reduce direct effects on the species, ding and minimizing activities during construction and ct habitat, establishing non-disturbance buffers around ing and by implementing protective measures during

been required in, or incorporated into, the project that fect as identified in the Final EIR. Impacts will be less

om the Project would be less than significant with neasures would replace lost habitat and reduce direct at disturbance, by identifying and avoiding potential naintenance and construction activities through porarily delaying work where colonies are identified, and with suitable foraging plants.

been required in, or incorporated into, the project that fect as identified in the Final EIR. Impacts will be less

ander from the Project would be less than significant with neasures would replace lost habitat and reduce direct at disturbance, by designing lighting that avoids spillover ting dispersal movements; by avoiding construction and t to habitat to the extent possible; timing construction conducting preconstruction surveys, and other imize the potential for injury and mortality; and by es at DWR facilities during operations to minimize the

been required in, or incorporated into, the project that fect as identified in the Final EIR. Impacts will be less

ad from the Project would be less than significant with neasures would replace lost habitat and reduce direct at disturbance, by designing lighting that avoids spillover dispersal movements; by avoiding construction and t to habitat to the extent possible; timing construction conducting preconstruction surveys, and other imize the potential for injury and mortality; and by es at DWR facilities during operations to minimize the

been required in, or incorporated into, the project that fect as identified in the Final EIR. Impacts will be less

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Proposed Mitigation	Impact Conclusion After Mitigation- CEQA	Findings of Fact
Impact BIO-24: Impacts of the Project on California Red-Legged Frog	Significant	MM CMP: Compensatory Mitigation Plan MM AES-4b: Minimize Fugitive Light from Portable Sources Used for Construction MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities MM BIO-22b: Avoid and Minimize Operational Traffic Impacts on Wildlife MM BIO-24a: Avoid and Minimize Impacts on California Red-Legged Frog and Critical Habitat MM BIO-24b: Compensate for Impacts on California Red-Legged Frog Habitat Connectivity	Less Than Significant	The impacts on California red-legged frog mitigation because these mitigation mea effects on the species, including habitat d into habitats and thus avoiding potential behaviors; by avoiding construction and n extent possible; timing construction activ preconstruction surveys, and other prote injury and mortality; and by putting in pla operations to minimize the potential for v Findings: Changes or alterations have bee avoid the significant environmental effect than significant with mitigation.
Impact BIO-25: Impacts of the Project on Western Pond Turtle	Significant	MM CMP: Compensatory Mitigation Plan MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities MM BIO-22b: Avoid and Minimize Operational Traffic Impacts on Wildlife MM BIO-25: Avoid and Minimize Impacts on Western Pond Turtle MM WQ-6 Develop and Implement a Mercury Management and Monitoring Plan	Less Than Significant	The impacts on western pond turtle from mitigation because these mitigation mea- effects on the species, including habitat d activities in and adjacent to habitat to the installing exclusion fencing, conducting p measures to avoid and minimize the pote traffic control measures at DWR facilities vehicle strikes.
				Findings: Changes or alterations have bee avoid the significant environmental effect than significant with mitigation.
Impact BIO-26: Impacts of the Project on Coast Horned Lizard	Significant	MM CMP: Compensatory Mitigation Plan MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities MM BIO-22b: Avoid and Minimize Operational Traffic Impacts on Wildlife MM BIO-26: Avoid and Minimize Impacts on Special- Status Reptiles	Less Than Significant	The impacts on coast horned lizard from mitigation because these mitigation mea- effects on the species, including habitat de activities in and adjacent to habitat to the conducting preconstruction surveys, and potential for injury and mortality; and by facilities during operations to minimize the
				Findings: Changes or alterations have bee avoid the significant environmental effect than significant with mitigation.
Impact BIO-27: Impacts of the Project on Northern California Legless Lizard	Significant	MM CMP: Compensatory Mitigation Plan MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities MM BIO-22b: Avoid and Minimize Operational Traffic Impacts on Wildlife MM BIO-26: Avoid and Minimize Impacts on Special- Status Reptiles	Less Than Significant	The impacts on Northern California legles significant with mitigation because these reduce direct effects on the species, inclu- maintenance activities in and adjacent to activities, installing exclusion fencing, cor protective measures to avoid and minimi- putting in place traffic control measures a potential for vehicle strikes. Findings: Changes or alterations have bee
				avoid the significant environmental effect than significant with mitigation.
Impact BIO-28: Impacts of the Project on California Glossy Snake	Significant	MM CMP: Compensatory Mitigation Plan	Less Than Significant	The impacts on California glossy snake from mitigation because these mitigation means

og from the Project would be less than significant with easures would replace lost habitat and reduce direct disturbance, by designing lighting that avoids spillover al increases in predation and disrupting normal d maintenance activities in and adjacent to habitat to the tivities, installing exclusion fencing, conducting tective measures to avoid and minimize the potential for place traffic control measures at DWR facilities during r vehicle strikes.

been required in, or incorporated into, the project that ect as identified in the Final EIR. Impacts will be less

om the Project would be less than significant with easures would replace lost habitat and reduce direct disturbance, by avoiding construction and maintenance he extent possible; timing construction activities, preconstruction surveys, and other protective tential for injury and mortality; and by putting in place es during operations to minimize the potential for

been required in, or incorporated into, the project that ect as identified in the Final EIR. Impacts will be less

m the Project would be less than significant with easures would replace lost habitat and reduce direct disturbance, by avoiding construction and maintenance he extent possible; timing construction activities, nd other protective measures to avoid and minimize the by putting in place traffic control measures at DWR e the potential for vehicle strikes.

been required in, or incorporated into, the project that ect as identified in the Final EIR. Impacts will be less

less lizard from the Project would be less than se mitigation measures would replace lost habitat and luding habitat disturbance, by avoiding construction and to habitat to the extent possible; timing construction conducting preconstruction surveys, and other mize the potential for injury and mortality; and by s at DWR facilities during operations to minimize the

been required in, or incorporated into, the project that ect as identified in the Final EIR. Impacts will be less

from the Project would be less than significant with easures would reduce direct effects on the species,

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Proposed Mitigation	Impact Conclusion After Mitigation- CEQA	Findings of Fact
		MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities MM BIO-22b: Avoid and Minimize Operational Traffic Impacts on Wildlife MM BIO-26: Avoid and Minimize Impacts on Special- Status Reptiles		including habitat disturbance, by avoidin adjacent to habitat to the extent possible preconstruction surveys, and other prote injury and mortality; and by putting in pl operations to minimize the potential for
				Findings: Changes or alterations have bee avoid the significant environmental effec than significant with mitigation.
Impact BIO-29: Impacts of the Project on San Joaquin Coachwhip	Significant	MM CMP: Compensatory Mitigation Plan MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities MM BIO-22b: Avoid and Minimize Operational Traffic Impacts on Wildlife MM BIO-26: Avoid and Minimize Impacts on Special- Status Reptiles	Less Than Significant	The impacts on San Joaquin coachwhip fr mitigation because these mitigation mean potentially suitable and reduce direct effe avoiding construction and maintenance a possible; timing construction activities, ir surveys, and other protective measures to mortality; and by putting in place traffic of to minimize the potential for vehicle strik Findings: Changes or alterations have been avoid the significant environmental effect than significant with mitigation.
Impact BIO-30: Impacts of the Project on Giant Garter Snake	Significant	MM CMP: Compensatory Mitigation Plan MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities MM BIO-22b: Avoid and Minimize Operational Traffic Impacts on Wildlife MM BIO-30: Avoid and Minimize Impacts on Giant Garter Snake MM WQ-6 Develop and Implement a Mercury Management and Monitoring Plan	Less Than Significant	The impacts on giant garter snake from the mitigation because these mitigation mean effects on the species, including habitat de activities in and adjacent to habitat to the installing exclusion fencing, conducting per measures to avoid and minimize the poteent traffic control measures at DWR facilities vehicle strikes.
				Findings: Changes or alterations have bee avoid the significant environmental effect than significant with mitigation.
Impact BIO-31: Impacts of the Project on Western Yellow-Billed Cuckoo	Significant	MM CMP: Compensatory Mitigation Plan MM AES-4b: Minimize Fugitive Light from Portable Sources Used for Construction MM AES-4c: Install Visual Barriers along Access Routes, Where Necessary, to Prevent Light Spill from Truck Headlights toward Residences MM NOI-1: Develop and Implement a Noise Control	Less Than Significant	The impacts on western yellow-billed cuc with mitigation because the mitigation m effects on the species, including habitat, m environmental awareness training to con measures during maintenance activities, a construction.
		Plan MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities MM BIO-2c: Electrical Power Line Support Placement MM BIO-31: Avoid and Minimize Impacts on Western Yellow-Billed Cuckoo		Findings: Changes or alterations have bee avoid the significant environmental effect than significant with mitigation.
Impact BIO-32: Impacts of the Project on California Black Rail	Significant	MM CMP: Compensatory Mitigation Plan MM AES-4b: Minimize Fugitive Light from Portable Sources Used for Construction	Less Than Significant	The impacts on California black rail from mitigation because the mitigation measur on the species, including habitat, noise, an

ing construction and maintenance activities in and le; timing construction activities, conducting tective measures to avoid and minimize the potential for place traffic control measures at DWR facilities during r vehicle strikes.

been required in, or incorporated into, the project that ect as identified in the Final EIR. Impacts will be less

from the Project would be less than significant with easures would replace lost habitat with habitat ffects on the species, including habitat disturbance, by e activities in and adjacent to habitat to the extent , installing exclusion fencing, conducting preconstruction s to avoid and minimize the potential for injury and c control measures at DWR facilities during operations rikes.

been required in, or incorporated into, the project that ect as identified in the Final EIR. Impacts will be less

the Project would be less than significant with easures would replace lost habitat and reduce direct disturbance, by avoiding construction and maintenance he extent possible; timing construction activities, preconstruction surveys, and other protective tential for injury and mortality; and by putting in place es during operations to minimize the potential for

been required in, or incorporated into, the project that ect as identified in the Final EIR. Impacts will be less

cuckoo from the Project would be less than significant measures would replace lost habitat and reduce direct , noise, and visual disturbances, by providing onstruction personnel, by implementing protective s, and species-specific avoidance measures during

been required in, or incorporated into, the project that ect as identified in the Final EIR. Impacts will be less

m the Project would be less than significant with sures would replace lost habitat and reduce direct effects and visual disturbances, by providing environmental

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Proposed Mitigation	Impact Conclusion After Mitigation- CEQA	Findings of Fact
		MM AES-4c: Install Visual Barriers along Access Routes, Where Necessary, to Prevent Light Spill from Truck Headlights toward Residences		awareness training to construction pers maintenance activities, and species-spec
		MM NOI-1: Develop and Implement a Noise Control Plan		Findings: Changes or alterations have be avoid the significant environmental effe than significant with mitigation.
Impact BIO-33: Impacts of the Project on Greater Sandhill Crane and Lesser Sandhill Crane	Significant	MM CMP: Compensatory Mitigation Plan MM AES-4b: Minimize Fugitive Light from Portable Sources Used for Construction MM AES-4c: Install Visual Barriers along Access Routes, Where Necessary, to Prevent Light Spill from Truck Headlights toward Residences MM NOI-1: Develop and Implement a Noise Control Plan MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities MM BIO-2c: Electrical Power Line Support Placement MM BIO-33: Avoid and Minimize Disturbance of Sandhill Cranes	Less Than Significant	Construction, operations, and maintenar could result in impacts on greater sandh permanent and temporary loss of know potential disruption of normal behaviors fr Environmental Commitments EC-1: Con Implement Hazardous Materials Manage Prevention, Containment, and Countern Construction Best Management Practice even with these commitments, the loss of potential for the disruption of normal be maintenance activities on greater sandh The CMP would be required to offset the roosting and foraging habitat and protect (Appendix 3F, Attachment 3F.1, Table 3 CMP-18b: Sandhill Crane Foraging Habit habitat loss to less than significant. Beca protected" under the California Fish and in "take" as defined by Section 86 of the capture, or kill, or attempt to" undertake designed to avoid any activities that wor sandhill crane. The Project would use ex extent possible for the purpose of avoid sandhill crane and all new aboveground foraging habitat for greater sandhill crane Support Placement, which requires that placed in the same vertical prism as exis engineers in coordination with utility pr greater sandhill crane from the Project. Mitigat Control Plan (Chapter 24); BIO-2b: Avoi Maintenance Activities; AES-4b: Minimiz Construction; AES-4c: Install Visual Barr Light Spill from Truck Headlights towar Minimize Disturbance of Sandhill Crane and lesser sandhill crane and lesser sandhill crane sessing work areas for habitat and com maintenance activities (either by seasor spillover into habitat; (3) reducing noise construction and noise-attenuating mea

rsonnel, by implementing protective measures during becific avoidance measures during construction.

been required in, or incorporated into, the project that fect as identified in the Final EIR. Impacts will be less

nance of the water conveyance facilities for the Project dhill crane and lesser sandhill crane through the wn roost sites and modeled foraging habitat and the ors. The temporary loss of habitat and potential impacts from project construction would be reduced by onduct Worker Awareness Training; EC-2: Develop and agement Plans; EC-3: Develop and Implement Spill rmeasure Plans; EC-11: Fugitive Dust Control; and EC-14: ces for Biological Resources (Appendix 3B); however, s of habitat from the construction of the Project, and the behaviors from construction, operations, and dhill crane and lesser sandhill crane would be significant. the loss of roosting and foraging habitat by creating tecting agricultural foraging habitat for sandhill cranes 3F.1-3, CMP-18a: Sandhill Crane Roosting Habitat, and bitat), which would reduce the impact associated with cause the greater sandhill crane is listed as "fully nd Game Code Section 3511, activities that would result e Fish and Game Code (i.e., "to hunt, pursue, catch, ake these activities) are prohibited. The Project has been vould result in actions considered "take" of greater existing power lines or underground conduit to the iding potential injury or direct mortality of the greater nd lines would be located outside of the roost sites or rane. Mitigation Measure BIO-2c: Electrical Power Line at project lines installed on existing poles or towers be xisting lines where feasible, as determined by project providers, and that all project lines within 3 miles of tted with bird flight diverters that are visible under all re current guidance (Avian Power Line Interaction nize any additional potential collisions of greater or lesser ation Measures NOI-1: Develop and Implement a Noise oid and Minimize Impacts on Biological Resources from nize Fugitive Light from Portable Sources Used for arriers along Access Routes, Where Necessary, to Prevent ard Residences (Chapter 18); and BIO-33: Avoid and nes would mitigate the impacts on greater sandhill crane n-significant level. Therefore, the project impacts on hill crane would be less than significant with mitigation e direct impacts on these species and compensate for lost educe direct impacts in the following ways: (1) Iring maintenance activities, which would include conducting surveys where appropriate and delaying on or time of day); (2) designing lighting that avoids ise impacts through time-of-day restrictions on easures where feasible, as determined by the contractor;

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Proposed Mitigation	Impact Conclusion After Mitigation- CEQA	Findings of Fact
				and (4) avoiding and minimizing distur surveys and work outside of the winter Mitigation measures would also establis disturbance and displacement of sandhi mitigation measures will be determined wildlife biologist.
				Findings: Changes or alterations have b avoid the significant environmental effe than significant with mitigation.
Impact BIO-34: Impacts of the Project on California Least Tern	Significant	MM CMP: Compensatory Mitigation Plan MM AES-4b: Minimize Fugitive Light from Portable Sources Used for Construction MM AES-4c: Install Visual Barriers along Access Routes, Where Necessary, to Prevent Light Spill from Truck Headlights toward Residences	Less Than Significant	The impacts on California least tern from mitigation because the mitigation measure including habitat, noise, and visual distu- training to construction personnel, by in activities, and species-specific avoidance
		<ul> <li>MM NOI-1: Develop and Implement a Noise Control Plan</li> <li>MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities</li> <li>MM BIO-2c: Electrical Power Line Support Placement</li> <li>MM BIO-34: Avoid California Least Tern Nesting</li> <li>Colonies and Minimize Indirect Effects on Colonies</li> </ul>		Findings: Changes or alterations have be avoid the significant environmental effe than significant with mitigation.
Impact BIO-35: Impacts of the Project on Cormorants, Herons, and Egrets	Significant	MM CMP: Compensatory Mitigation Plan MM AES-4b: Minimize Fugitive Light from Portable Sources Used for Construction MM AES-4c: Install Visual Barriers along Access Routes, Where Necessary, to Prevent Light Spill from Truck Headlights toward Residences	Less Than Significant	The impacts on cormorants, herons, and with mitigation because the mitigation r effects on the species, including habitat, environmental awareness training to co measures during maintenance activities egret rookeries during construction.
		<ul> <li>MM NOI-1: Develop and Implement a Noise Control Plan</li> <li>MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities</li> <li>MM BIO-2c: Electrical Power Line Support Placement</li> <li>MM BIO-35: Avoid and Minimize Impacts on Cormorant, Heron, and Egret Rookeries</li> </ul>		Findings: Changes or alterations have b avoid the significant environmental effe than significant with mitigation.
Impact BIO-36: Impacts of the Project on Osprey, White-Tailed Kite, Cooper's Hawk, and Other Nesting Raptors	Significant	MM CMP: Compensatory Mitigation Plan MM AES-4b: Minimize Fugitive Light from Portable Sources Used for Construction MM AES-4c: Install Visual Barriers along Access Routes, Where Necessary, to Prevent Light Spill from Truck Headlights toward Residences	Less Than Significant	The impacts on special-status and non- than significant with mitigation because reduce direct effects on the species, incl providing environmental awareness tra protective measures during maintenanc construction.
		<ul> <li>MM NOI-1: Develop and Implement a Noise Control Plan</li> <li>MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities</li> <li>MM BIO-2c: Electrical Power Line Support Placement</li> <li>MM BIO-36a: Conduct Nesting Surveys for Special- Status and Non–Special-Status Birds and Raptors and</li> </ul>		Findings: Changes or alterations have be avoid the significant environmental effe than significant with mitigation.

urbance of roosting and foraging cranes by conducting er crane season (September 15 through March 15). olish roosting and foraging habitat to compensate for dhill cranes during construction. The feasibility of ned by the contractor in coordination with a qualified

been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

rom the Project would be less than significant with asures would reduce direct effects on the species, sturbances, by providing environmental awareness implementing protective measures during maintenance nce measures for the species during construction.

been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

and egrets from the Project would be less than significant on measures would replace lost habitat, reduce direct at, noise, and visual disturbances, by providing construction personnel, by implementing protective ies, and avoidance measures for cormorant, heron, or

been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

n-special-status raptors from the Project would be less use the mitigation measures would replace lost habitat, ncluding habitat, noise, and visual disturbances, by training to construction personnel, by implementing ance activities, and avoidance measures for raptors during

been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Proposed Mitigation	Impact Conclusion After Mitigation- CEQA	Findings of Fact
		Implement Protective Measures to Avoid Disturbance of Nesting Birds and Raptors MM BIO-36b: Conduct Preconstruction Surveys and Implement Protective Measures to Avoid Disturbance of White-Tailed Kite		
Impact BIO-37: Impacts of the Project on Golden Eagle and Ferruginous Hawk	Significant	<ul> <li>MM CMP: Compensatory Mitigation Plan</li> <li>MM AES-4b: Minimize Fugitive Light from Portable</li> <li>Sources Used for Construction</li> <li>MM AES-4c: Install Visual Barriers along Access Routes,</li> <li>Where Necessary, to Prevent Light Spill from Truck</li> <li>Headlights toward Residences</li> <li>MM NOI-1: Develop and Implement a Noise Control</li> <li>Plan</li> <li>MM BIO-2b: Avoid and Minimize Impacts on Terrestrial</li> <li>Biological Resources from Maintenance Activities</li> <li>MM BIO-2c: Electrical Power Line Support Placement</li> <li>MM BIO-37: Conduct Surveys for Golden Eagle and</li> <li>Avoid Disturbance of Occupied Nests</li> </ul>	Less Than Significant	The impacts on ferruginous hawk and g significant with mitigation because the direct effects on the species, including h environmental awareness training to co measures during maintenance activities eagles, as defined by Section 86 of the C Findings: Changes or alterations have b avoid the significant environmental effe than significant with mitigation.
Impact BIO-38: Impacts of the Project on Ground-Nesting Grassland Birds	Significant	<ul> <li>MM CMP: Compensatory Mitigation Plan</li> <li>MM AES-4b: Minimize Fugitive Light from Portable</li> <li>Sources Used for Construction</li> <li>MM AES-4c: Install Visual Barriers along Access Routes,</li> <li>Where Necessary, to Prevent Light Spill from Truck</li> <li>Headlights toward Residences</li> <li>MM NOI-1: Develop and Implement a Noise Control</li> <li>Plan</li> <li>MM BIO-2b: Avoid and Minimize Impacts on Terrestrial</li> <li>Biological Resources from Maintenance Activities</li> <li>MM BIO-2c: Electrical Power Line Support Placement</li> <li>MM BIO-36a: Conduct Nesting Surveys for Special-</li> <li>Status and Non–Special-Status Birds and Raptors and</li> <li>Implement Protective Measures to Avoid Disturbance</li> <li>of Nesting Birds and Raptors</li> </ul>	Less Than Significant	The impacts on northern harrier, short- sparrow from the Project would be less measures would reduce direct effects of disturbances, by providing environmen implementing protective measures duri nesting birds during construction. Findings: Changes or alterations have b avoid the significant environmental effe than significant with mitigation.
Impact BIO-39: Impacts of the Project on Swainson's Hawk	Significant	<ul> <li>MM CMP: Compensatory Mitigation Plan</li> <li>MM AES-4b: Minimize Fugitive Light from Portable</li> <li>Sources Used for Construction</li> <li>MM AES-4c: Install Visual Barriers along Access Routes,</li> <li>Where Necessary, to Prevent Light Spill from Truck</li> <li>Headlights toward Residences</li> <li>MM NOI-1: Develop and Implement a Noise Control</li> <li>Plan</li> <li>MM BIO-2b: Avoid and Minimize Impacts on Terrestrial</li> <li>Biological Resources from Maintenance Activities</li> <li>MM BIO-2c: Electrical Power Line Support Placement</li> <li>MM BIO-39: Conduct Preconstruction Surveys and</li> <li>Implement Protective Measures to Minimize</li> <li>Disturbance of Swainson's Hawk</li> </ul>	Less Than Significant	The impacts on Swainson's hawk from t mitigation because the mitigation meas the species, including habitat, noise, and awareness training to construction pers maintenance activities, and avoidance n construction. Findings: Changes or alterations have b avoid the significant environmental effe than significant with mitigation.

golden eagle from the Project would be less than ne mitigation measures would replace lost habitat, reduce habitat, noise, and visual disturbances, by providing construction personnel, by implementing protective ies, and avoidance measures to avoid take of golden e California Fish and Game Code during construction.

e been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

rt-eared owl, California horned lark, and grasshopper ess than significant with mitigation because the mitigation s on the species, including habitat, noise, and visual ental awareness training to construction personnel, by uring maintenance activities, and avoidance measures for

been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

n the Project would be less than significant with asure would replace lost habitat, reduce direct effects on and visual disturbances, by providing environmental ersonnel, by implementing protective measures during e measures for nesting Swainson's hawk during

e been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Proposed Mitigation	Impact Conclusion After Mitigation- CEQA	Findings of Fact
Impact BIO-40: Impacts of the Project on Burrowing Owl	Significant	<ul> <li>MM CMP: Compensatory Mitigation Plan</li> <li>MM AES-4b: Minimize Fugitive Light from Portable</li> <li>Sources Used for Construction</li> <li>MM AES-4c: Install Visual Barriers along Access Routes,</li> <li>Where Necessary, to Prevent Light Spill from Truck</li> <li>Headlights toward Residences</li> <li>MM NOI-1: Develop and Implement a Noise Control</li> <li>Plan</li> <li>MM BIO-2b: Avoid and Minimize Impacts on Terrestrial</li> <li>Biological Resources from Maintenance Activities</li> <li>MM BIO-2c: Electrical Power Line Support Placement</li> <li>MM BIO-22b: Avoid and Minimize Operational Traffic</li> <li>Impacts on Wildlife</li> <li>MM BIO-40: Conduct Surveys and Minimize Impacts on</li> </ul>	Less Than Significant	The impacts on burrowing owl from the l because the mitigation measures would r noise, and visual disturbances, by provid personnel, by implementing protective m measures for burrowing owl during cons Findings: Changes or alterations have bee avoid the significant environmental effec than significant with mitigation.
Impact BIO-41: Impacts of the Project on Other Nesting Special-Status and Non–Special-Status Birds	Significant	<ul> <li>MM CMP: Compensatory Mitigation Plan</li> <li>MM AES-4b: Minimize Fugitive Light from Portable</li> <li>Sources Used for Construction</li> <li>MM AES-4c: Install Visual Barriers along Access Routes,</li> <li>Where Necessary, to Prevent Light Spill from Truck</li> <li>Headlights toward Residences</li> <li>MM NOI-1: Develop and Implement a Noise Control</li> <li>Plan</li> <li>MM BIO-2b: Avoid and Minimize Impacts on</li> <li>Terrestrial Biological Resources from Maintenance</li> <li>Activities</li> <li>MM BIO-2c: Electrical Power Line Support Placement</li> <li>MM BIO-36a: Conduct Nesting Surveys for Special-</li> <li>Status and Non-Special-Status Birds and Raptors and</li> <li>Implement Protective Measures to Avoid Disturbance</li> <li>of Nesting Birds and Raptors</li> </ul>	Less Than Significant	The impacts on special-status and non-sp less than significant with mitigation beca habitat, reduce direct effects on these spec by providing environmental awareness the protective measures during maintenance during construction. Findings: Changes or alterations have been avoid the significant environmental effect than significant with mitigation.
Impact BIO-42: Impacts of the Project on Least Bell's Vireo	Significant	MM CMP: Compensatory Mitigation Plan MM AES-4b: Minimize Fugitive Light from Portable Sources Used for Construction MM AES-4c: Install Visual Barriers along Access Routes, Where Necessary, to Prevent Light Spill from Truck Headlights toward Residences MM NOI-1: Develop and Implement a Noise Control Plan MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities MM BIO-2c: Electrical Power Line Support Placement MM BIO-42: Conduct Surveys and Minimize Impacts on Least Bell's Vireo	Less Than Significant	The impacts on least Bell's vireo from the because the mitigation measures would r species, including habitat, noise, and visu awareness training to construction perso maintenance activities, and avoidance me Findings: Changes or alterations have bee avoid the significant environmental effect than significant with mitigation.
Impact BIO-44: Impacts of the Project on Tricolored Blackbird	Significant	MM CMP: Compensatory Mitigation Plan MM AES-4b: Minimize Fugitive Light from Portable Sources Used for Construction	Less Than Significant	The impacts on tricolored blackbird from mitigation because the mitigation measur the species, including habitat, noise, and awareness training to construction perso maintenance activities, and avoidance me

e Project would be less than significant with mitigation d reduce direct effects on the species, including habitat, iding environmental awareness training to construction measures during maintenance activities, and avoidance nstruction.

been required in, or incorporated into, the project that ect as identified in the Final EIR. Impacts will be less

-special-status bird species from the Project would be cause the mitigation measures would replace lost species, including habitat, noise, and visual disturbances, s training to construction personnel, by implementing ce activities, and avoidance measures for nesting birds

been required in, or incorporated into, the project that ect as identified in the Final EIR. Impacts will be less

the Project would be less than significant with mitigation d replace lost habitat and reduce direct effects on the sual disturbances, by providing environmental sonnel, by implementing protective measures during measures for least Bell's vireo during construction.

been required in, or incorporated into, the project that ect as identified in the Final EIR. Impacts will be less

om the Project would be less than significant with sures would replace lost habitat, reduce direct effects on d visual disturbances, by providing environmental sonnel, by implementing protective measures during measures for tricolored blackbird during construction.

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Proposed Mitigation	Impact Conclusion After Mitigation- CEQA	Findings of Fact
		<ul> <li>MM AES-4c: Install Visual Barriers along Access Routes,</li> <li>Where Necessary, to Prevent Light Spill from Truck</li> <li>Headlights toward Residences</li> <li>MM NOI-1: Develop and Implement a Noise Control</li> <li>Plan</li> <li>MM BIO-2b: Avoid and Minimize Impacts on Terrestrial</li> <li>Biological Resources from Maintenance Activities</li> <li>MM BIO-2c: Electrical Power Line Support Placement</li> <li>MM BIO-44: Conduct Preconstruction Surveys and</li> <li>Implement Protective Measures to Avoid Disturbance</li> <li>of Tricolored Blackbird</li> </ul>		Findings: Changes or alterations have b avoid the significant environmental effe than significant with mitigation.
Impact BIO-45: Impacts of the Project on Bats	Significant	MM CMP: Compensatory Mitigation Plan MM AES-4b: Minimize Fugitive Light from Portable Sources Used for Construction MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities MM BIO-45a: Compensate for the Loss of Bat Roosting Habitat on Bridges and Overpasses MM BIO-45b: Avoid and Minimize Impacts on Roosting Bats	Less Than Significant	The impacts on bats from the Project w these measures would replace lost habi habitat modification) by (1) implement which would include assessing work ar appropriate and delaying maintenance avoids spillover into habitats and choos avoiding disrupting roost sites and fora identifying occupied roosts and implem disrupting roosts, in particular materna roosts.
				Findings: Changes or alterations have b avoid the significant environmental effe than significant with mitigation.
Impact BIO-46: Impacts of the Project on San Joaquin Kit Fox	Significant	MM CMP: Compensatory Mitigation Plan MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities MM BIO-22b: Avoid and Minimize Operational Traffic Impacts on Wildlife MM BIO-46: Conduct Preconstruction Survey for San	Less Than Significant	The impacts on San Joaquin kit fox from mitigation because the mitigation meas implementing protective measures dur conducting den surveys where appropr (2) implementing traffic controls on fac minimize the potential for vehicle strike
		Joaquin Kit Fox and Implement Avoidance and Minimization Measures		Findings: Changes or alterations have b avoid the significant environmental effe than significant with mitigation.
Impact BIO-47: Impacts of the Project on American Badger	Significant	MM CMP: Compensatory Mitigation Plan MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities MM BIO-22b: Avoid and Minimize Operational Traffic Impacts on Wildlife MM BIO-47: Conduct Preconstruction Survey for American Badger and Implement Avoidance and Minimization Measures	Less Than Significant	The impacts on American badger from to mitigation because the mitigation mease effects on the species, including habitat during maintenance activities, which we conducting dens surveys where approp implementing traffic controls on facility the potential for vehicle strikes, and (3) during construction. Findings: Changes or alterations have b
				avoid the significant environmental effective than significant with mitigation.
Impact BIO-48: Impacts of the Project on San Joaquin Pocket Mouse	Significant	MM CMP: Compensatory Mitigation Plan	Less Than Significant	The impacts on San Joaquin pocket mou mitigation because these measures wou species, including habitat disturbance, h

e been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

would be less than significant with mitigation because abitat and reduce direct effects on the species (including nting protective measures during maintenance activities, areas for habitat and conducting surveys for bats where ce activities where possible; (2) designing lighting that osing light sources less disruptive to wildlife and thus raging activity; and (3) prior to and during construction, ementing construction activities such that the avoid nal roosts, and establishing protective buffers around

been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

om the Project would be less than significant with asures would reduce direct effects on the species by (1) uring maintenance activities, which would include priate and avoiding certain activities where possible, and facility access roads during operations, which would ikes if San Joaquin kit fox is present in these areas.

e been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

n the Project would be less than significant with easures would replace lost habitat and reduce direct at disturbance, by (1) implementing protective measures would include assessing work areas for habitat and opriate and avoiding certain activities where possible, (2) ity access roads during operations, which would minimize 3) implementing avoidance measures for active dens

been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

ouse from the Project would be less than significant with ould replace lost habitat and reduce direct effects on the e, by implementing protective measures during

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Proposed Mitigation	Impact Conclusion After Mitigation- CEQA	Findings of Fact
		MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities MM BIO-22b: Avoid and Minimize Operational Traffic Impacts on Wildlife		maintenance activities, which would incl implementing traffic controls on facility the potential for vehicle strikes.
				Findings: Changes or alterations have be avoid the significant environmental effec than significant with mitigation.
Impact BIO-51: Substantial Adverse Effect on State- or Federally Protected Wetlands and Other Waters through Direct Removal, Filling, Hydrological Interruption, or Other Means	Significant	MM CMP: Compensatory Mitigation Plan MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities	Less Than Significant	The impact of discharge of fill into aquat because the mitigation measures would minimize periodic, temporary discharges maintenance work areas for aquatic reso aquatic resources, training maintenance into aquatic resources, and having a biol Findings: Changes or alterations have be
				avoid the significant environmental effect than significant with mitigation.
Impact BIO-53: Interfere Substantially with the Movement of Any Native Resident or Migratory Fish or Wildlife Species or with Established Native Resident or Migratory Wildlife Corridors, or Impede the Use of Native Wildlife Nursery Sites	Significant	MM CMP: Compensatory Mitigation Plan MM AES-4b: Minimize Fugitive Light from Portable Sources Used for Construction MM AES-4c: Install Visual Barriers along Access Routes, Where Necessary, to Prevent Light Spill from Truck Headlights toward Residences MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities MM BIO-22b: Avoid and Minimize Operational Traffic Impacts on Wildlife MM BIO-53: Avoid and Minimize Impacts on Terrestrial Wildlife Connectivity and Movement	Less Than Significant	The impacts on wildlife connectivity reso from the Project would be less than signi- measures would compensate for impacts and species impacts that potentially coul- habitat access, and wildlife behavior, res- measures would avoid and minimize hak- injury, mortality, disruption of normal be may disrupt species movement, habitat s- resulting in impacts on wildlife connecti- and species, reporting requirements, and implementing spill prevention and conta- could affect habitat and wildlife; prevent stormwater pollution, which may affect 1 may impact habitat and wildlife; implem monitor present to ensure that non distu- intact and all other protective measures habitat and wildlife; reducing fugitive lig wildlife behavior and habitat selection; i habitat and wildlife impacts during main implementing traffic control measures o movement disruptions and vehicle-relat- impacts on and facilitates habitat connection Findings: Changes or alterations have be avoid the significant environmental effect than significant with mitigation.
Impact BIO-54: Conflict with the Provisions of an Adopted Habitat Conservation Plan, Natural Community Conservation Plan, or Other Approved Local, Regional, or State Habitat Conservation Plan	Significant	MM CMP: Compensatory Mitigation Plan MM BIO-2a: Avoid or Minimize Impacts on Special- Status Natural Communities and Special-Status Plants MM BIO-14: Avoid and Minimize Impacts on Vernal Pool Aquatic Invertebrates and Critical Habitat for Vernal Pool Fairy Shrimp MM BIO-18: Avoid and	Less Than Significant	Because the Project would only remove a and thus not obstruct the plans' conserva and minimize impacts on covered specie other approved local, regional, or state h with mitigation.

nclude assessing work areas for potential habitat, and by ty access roads during operations, which would minimize

been required in, or incorporated into, the project that fect as identified in the Final EIR. Impacts will be less

atic resources would be reduced to less than significant Ild avoid a net loss in aquatic resources and avoid and ges of fill material into aquatic resources by assessing esources, establishing non-disturbance buffers around ce staff on the need to avoid the discharge of fill material iological monitor present, where applicable.

been required in, or incorporated into, the project that fect as identified in the Final EIR. Impacts will be less

esources, habitat connectivity, and wildlife movement gnificant with mitigation because the mitigation cts on wildlife habitat and avoid and minimize habitat ould disrupt species movement and habitat selection, resulting in impacts on wildlife connectivity. These nabitat and species impacts that could cause potential for behaviors and disturbances to habitat that potentially at selection, habitat access, and wildlife behavior, ctivity, by training construction staff on protecting habitat and the ramifications for not following these measures; ntainment plans that would avoid material spills that enting erosion and sedimentation of habitats and ct habitat and wildlife; preventing dust emissions that ementing construction BMPs and having a biological sturbance buffers and associated construction fencing are es are being implemented where applicable to protect light and lighting impacts that may disrupt nocturnal ; implementing environmental review and avoidance of aintenance activities; limiting vehicle speeds and s on DWR roads during operations to reduce species lated mortality; and ensuring that the project prevents nectivity and safe wildlife movement.

been required in, or incorporated into, the project that fect as identified in the Final EIR. Impacts will be less

ve a small proportion of available lands for conservation, rvation goals, and with the mitigation measures to avoid cies and habitats, the impact on an adopted HCP, NCCP, or e habitat conservation plan would be less than significant

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Proposed Mitigation	Impact Conclusion After Mitigation- CEQA	Findings of Fact
		Minimize Impacts on Valley Elderberry Longhorn Beetle MM BIO-22a: Avoid and Minimize Impacts on California Tiger Salamander MM BIO-24a: Avoid and Minimize Impacts on California Red-Legged Frog and Critical Habitat MM BIO-25: Avoid and Minimize Impacts on Western Pond Turtle MM BIO-26: Avoid and Minimize Impacts on Special-Status Reptiles MM BIO-30: Avoid and Minimize Impacts on Giant Garter Snake MM BIO-31: Avoid and Minimize Impacts on Western Yellow-Billed Cuckoo MM BIO-32: Conduct Preconstruction Surveys and Implement Protective Measures to Avoid Disturbance of California Black Rail MM BIO-33: Minimize Disturbance of Sandhill Cranes MM BIO-35: Avoid and Minimize Impacts on Cormorant, Heron, and Egret Rookeries MM BIO-36a: Conduct Nesting Surveys for Special- Status and Non-Special-Status Birds and Implement Protective Measures to Avoid Disturbance of Whito-Tailed Kite MM BIO-39: Conduct Preconstruction Surveys and Implement Protective Measures to Avoid Disturbance of White-Tailed Kite MM BIO-39: Conduct Preconstruction Surveys and Implement Protective Measures to Minimize Disturbance of Swainson's Hawk MM BIO-40: Conduct Preconstruction Surveys and Implement Protective Measures to Avoid Disturbance of White-Tailed Kite MM BIO-39: Conduct Preconstruction Surveys and Implement Protective Measures to Minimize Disturbance of Swainson's Hawk MM BIO-44: Conduct Preconstruction Surveys and Implement Protective Measures to Avoid Disturbance of Tricolored Blackbird MM BIO-47: Conduct Preconstruction Survey for American Badger and Implement Avoidance and Minimization Measures MM AG-1: Preserve Agricultural Land		Findings: Changes or alterations have b avoid the significant environmental effe than significant with mitigation.
Impact BIO-55: Conflict with Any Local Policies or Ordinances Protecting Biological Resources, Such as a Tree Preservation Policy or Ordinance	Significant	MM CMP: Compensatory Mitigation Plan	Less Than Significant	The temporary loss of habitats from pro Commitments EC-1: Conduct Worker A Hazardous Materials Management Plan Containment, and Countermeasure Plan for Biological Resources (Appendix 3B) permanent loss of habitat from the cons CMP would be required to offset the los species (Appendix 3F), which would rea with local policies and ordinances to les Findings: Changes or alterations have b avoid the significant environmental effet
Impact BIO-56: Substantial Adverse Effects on Fish and Wildlife Resources	Significant	MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities	Less Than Significant	than significant with mitigation. The impacts on rivers, streams, and lake notification requirements of California

e been required in, or incorporated into, the project that effect as identified in the Final EIR. Impacts will be less

project construction would be reduced by Environmental • Awareness Training; EC-2: Develop and Implement ans; EC-3: Develop and Implement Spill Prevention, lans; and EC-14: Construction Best Management Practices B). Even with these commitments, however, the onstruction of the alternatives would be significant. The loss of wetlands, riparian, and habitat for special-status reduce impacts on these resources and thus the conflicts less than significant.

e been required in, or incorporated into, the project that effect as identified in the Final EIR. Impacts will be less

akes, and associated communities, subject to the ia Fish and Game Code 1600 et seq. would be less than

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Proposed Mitigation	Impact Conclusion After Mitigation- CEQA	Findings of Fact
Regulated under California Fish and Game Code Section 1600 et seq		<ul> <li>MM AQUA-1a: Develop and Implement an Underwater Sound Control and Abatement Plan</li> <li>MM AQUA-1b: Develop and Implement a Barge Operations Plan MM AQUA-1c: Develop and Implement a Fish Rescue and Salvage Plan</li> <li>MM BIO-2a: Avoid or Minimize Impacts on Special- Status Natural Communities and Special-Status Plants</li> <li>MM BIO-2b: Avoid and Minimize Impacts on Terrestrial Biological Resources from Maintenance Activities</li> <li>MM BIO-18: Avoid and Minimize Impacts on Valley Elderberry Longhorn Beetle</li> <li>MM BIO-22a: Avoid and Minimize Impacts on California Tiger Salamander</li> <li>MM BIO-24a: Avoid and Minimize Impacts on California Red-Legged Frog and Critical Habitat</li> <li>MM BIO-25: Avoid and Minimize Impacts on Western Pond Turtle MM BIO-26: Avoid and Minimize Impacts on Special-Status Reptiles</li> <li>MM BIO-30: Avoid and Minimize Impacts on Giant Garter Snake MM BIO-31: Avoid and Minimize Impacts on Western Yellow-Billed Cuckoo</li> <li>MM BIO-32: Conduct Preconstruction Surveys and Implement Protective Measures to Avoid Disturbance of California Black Rail MM BIO-33: Minimize Disturbance of Sandhill Cranes</li> <li>MM BIO-36a: Conduct Nesting Surveys for Special- Status and Non-Special-Status Birds and Implement Protective Measures to Avoid Disturbance of White-Tailed Kite MM BIO-39: Conduct</li> <li>Preconstruction Surveys and Implement Protective Measures to Avoid Disturbance of White-Tailed Kite MM BIO-39: Conduct</li> <li>Preconstruction Surveys and Implement Protective Measures to Avoid Disturbance of Swainson's Hawk MM BIO-40: Conduct Surveys and Minimize Impacts on Burrowing Owl</li> <li>MM BIO-44: Conduct Preconstruction Surveys and Implement Protective Measures to Avoid Disturbance of Tricolored Blackbird MM BIO-45b: Avoid and Minimization Measures</li> <li>MM BIO-47: Conduct Preconstruction Survey for San Joaquin Kit Fox and Implement Avoidance and Minimization Measures</li> </ul>		significant because the mitigation mea offset impacts on habitat that support require steps to avoid and minimize ef minimize the level of construction acti- nesting), by establishing non-disturban preconstruction surveys to avoid occu- biological monitors present to ensure 1 species are avoided and minimized. Findings: Changes or alterations have I avoid the significant environmental eff than significant with mitigation.

Agricultural Resources

easures would provide for compensatory mitigation to t fish and wildlife species, including rare plants, and would effects on these species by establishing work windows to tivities during sensitive time periods (e.g., migration, ance buffers to protect sensitive resources, by conducting upied areas to the extent practicable, and by having e measures are implemented and that direct effects on

e been required in, or incorporated into, the project that effect as identified in the Final EIR. Impacts will be less

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Proposed Mitigation	Impact Conclusion After Mitigation- CEQA	Findings of Fact
Impact AG-3: Other Impacts on Agriculture as a Result of Constructing and Operating the Water Conveyance Facilities Prompting Conversion of Prime Farmland, Unique Farmland, Farmland of Local Importance, or Farmland of Statewide Importance	Significant	MM AG-3: Replacement or Relocation of Affected Infrastructure Supporting Agricultural Properties MM GW-1: Maintain Groundwater Supplies in Affected Areas	Less than Significant	Construction and operation of the Project agriculture within the study area throug affecting crop yields, disruption of agricu- facilities, and operation-related changes water applied to crops. The potential for elevations during construction and oper- placement of seepage cutoff wall placem are most likely to arise. Implementation groundwater elevations that may affect of tracked through groundwater monitorin GW-1: Maintain Groundwater Supplies in temporary dewatering associated with the agricultural operations in the vicinity of Important Farmland to nonagricultural of DWR considered how construction work supporting agricultural properties, inclu could result in the areas serviced by this known infrastructure used to serve agric possible; however, the presence of addit visible on aerial imagery and not identifi future site level investigations. Although project construction activity at a particu years, depending on the facility being co disruption to the infrastructure remains potentially significant. Mitigation Measure AG-3: Replacement of Agricultural Properties would require th construction activities would be relocated activities; otherwise, the affected landow losses resulting from the disruption. Fur 2c: Electrical Power Line Support Placem distribution lines and necessary appurted DWR incorporate BMPs, where feasible, impacts, and reduce the potential for intu- less than significant with mitigation.
				Findings: Changes or alterations have be avoid the significant environmental effec than significant with mitigation.
Aesthetics and Visual Resources				
Impact AES-4: Create New Sources of Substantial Light or Glare That Would Adversely Affect Daytime or Nighttime Views of the Construction Areas or Permanent Facilities	Significant	MM AES-1b: Apply Aesthetic Design Treatments to Project Structures MM AES-1c: Implement Best Management Practices in Project Landscaping Plan MM AES-4a: Limit Construction Outside of Daylight Hours within 0.25 Mile of Residents at the Intakes MM AES-4b: Minimize Fugitive Light from Portable Sources Used for Construction	Less Than Significant	Once construction is completed and the p limited nighttime lighting. Sources of gla fleeting to motorists. Any building mater have a matte or nonreflective finish that postconstruction impacts of light and gla significant.

ject's water conveyance facilities could indirectly affect ugh changes in groundwater elevation in localized areas icultural infrastructure such as irrigation and drainage es in salinity affecting the water quality of irrigation for impacts resulting from changes in groundwater eration would be minimized by design elements such ements around the north Delta intakes where such issues on of these design elements to prevent changes in ct neighboring properties, including farmland, would be ring programs. Furthermore, with Mitigation Measure s in Affected Areas, identified in Chapter 8, the effects of the project are not anticipated to adversely disrupt of the intake sites that would result in conversion of al use.

ork for the project could affect local infrastructure cluding drainage and irrigation facilities. Such disruptions nis infrastructure being fallowed. During project planning, ricultural properties were avoided to the greatest extent ditional infrastructure (e.g., buried pipelines that are not tified in publicly available maps) may be revealed during gh these disruptions may last only for the duration of cular work area, such disruptions may persist for 7 to 15 constructed. The effect would be permanent if the ns after construction is complete. This impact would be

t or Relocation of Affected Infrastructure Supporting that any agricultural infrastructure that is disrupted by ated or replaced to support continued agricultural owner would be fully compensated for any financial urthermore, as required under Mitigation Measure BIOement, the installation of power transition and rtenances within agricultural areas would require that le, to minimize crop damage, reduce agricultural land nterference with farm machinery. The impact would be

been required in, or incorporated into, the project that fect as identified in the Final EIR. Impacts will be less

e project is in operation, the Project facilities would use glare would be blocked by levees, reduced by distance, or terials that would have potential to reflect glare would at would reduce or inhibit glare. Therefore, permanent, glare attributable to the project would be less than

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Proposed Mitigation	Impact Conclusion After Mitigation- CEQA	Findings of Fact
		MM AES-4c: Install Visual Barriers along Access Routes, Where Necessary, to Prevent Light Spill from Truck Headlights toward Residences		Findings: Changes or alterations have b avoid the significant environmental effe than significant with mitigation.
Transportation				
Impact TRANS-3: Substantially Increase Hazards from a Geometric Design Feature (e.g., Sharp Curves or Dangerous Intersections) or Incompatible Uses (e.g., Farm Equipment) <sup>1</sup>	Significant	MM TRANS-1: Implement Site-Specific Construction Transportation Demand Management Plan and Transportation Management Plan	Less Than Significant	Construction of the Project would increemployees using the road system in the workers and other construction mater safety hazards related to increasing the operating with commuters, farming operating with comstruction sites. Even with the circulation activities at conveyance for safety hazards as a result of conflicts be construction sites, road improvement (TMP) actions in Mitigation Measure T Transportation Demand Management with the circulation system improvement impact to a less-than-significant level be agencies to reduce potential safety community to 20-60 (line 10).) Findings: Changes or alterations have avoid the significant environmental effitient with mitigation. (Final
Impact TRANS-4: Result in Inadequate Emergency Access Air Quality and Greenhouse Gases	Significant	MM TRANS-1: Implement Site-Specific Construction Transportation Demand Management Plan and Transportation Management Plan	Less Than Significant	Construction of the Project would increvicinity of construction sites at multiple emergency vehicle delays on roadways proposed roadway improvements. Ever incorporated into the Project, this poter a substantial increase in the volume of a occur on the regional transportation sy- period, and (2) up to 18 access points h access delay due to ingress and egress of construction for the Project. The traffic TRANS-1: Implement Site-Specific Cons Transportation Management Plan woul providing specific actions and coordina maintain adequate emergency access in Findings: Changes or alterations have b avoid the significant environmental effec- than significant with mitigation.
Impact AQ-1: Result in Impacts on Regional Air Quality within the	Significant	MM AQ-1: Offset Construction-Generated Criteria Pollutants in the Sacramento Valley Air Basin	Less Than Significant	Impacts associated with fugitive dust en plan (Environmental Commitment EC-1 batch plants (Environmental Commitm

<sup>&</sup>lt;sup>1</sup> The corrections identified above summarize and restate the determinations and conclusions as articulated in the Final EIR, and as incorporated by reference into the DCP CEQA Findings adopted by DWR on December 21, 2023, for Impact Trans-3 and Rec-2. This has been updated on March 21, 2024, per the Errata to the CEQA Findings of Fact for the Delta Conveyance Project.

been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

crease the amount of traffic generated by construction the study area. This increase in traffic from construction erials delivery traffic could create the potential for traffic the number of trucks and construction equipment operations, and recreational users in areas adjacent to culation system improvements and park-and-ride lots, the elated traffic on Delta roadways and the duration of facility sites would increase the potential for traffic between construction and vehicle traffic. This impact is potential for construction traffic hazards at multiple nt locations, and bridges. The traffic management plan TRANS-1: Implement Site-Specific Construction nt Plan and Transportation Management Plan combined ments provided as part of the Project would reduce this l by providing specific actions and coordination with local onditions at identified locations. (Final EIR, pp. 20-59

e been required in, or incorporated into, the project that effect as identified in the Final EIR. Impacts will be less al EIR, p. 20-60 (lines 5-10).)

rease the potential for emergency access conflicts in the ble locations and would increase the potential for vs used to access construction sites or in the vicinity of en with the roadway and access road improvements ential is considered to be a significant impact because (1) f additional construction-related vehicle trips would system and on Delta roadways during the construction have the potential to experience emergency vehicle of construction vehicles and roadway and bridge ic management plan (TMP) actions in Mitigation Measure nstruction Transportation Demand Management Plan and uld reduce this impact to a less-than-significant level by nation with emergency responders at construction sites to in the vicinity of construction sites.

been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

emissions would be minimized through a dust control -11: Fugitive Dust Control) and BMPs at new concrete nent EC-12: On-Site Concrete Batching Plants). Exhaust-

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Proposed Mitigation	Impact Conclusion After Mitigation- CEQA	Findings of Fact
Sacramento Metropolitan Air Quality Management District				related pollutants would be reduced thr (where feasible), renewable diesel, Tier and other BMPs, as required by Environ Engines through EC-10: Marine Vessels GHG Emissions. These environmental co through application of on-site controls t these commitments, exceedances of SMA contribute a significant level of regional Findings: Changes or alterations have be avoid the significant environmental effe
Impact AQ-2: Result in Impacts on Regional Air Quality within the San Joaquin Valley Air Pollution Control District	Significant	MM AQ-2: Offset Construction-Generated Criteria Pollutants in the San Joaquin Valley Air Basin	Less Than Significant	than significant with mitigation. Based on the performance of current incogrowth, SJVAPCD has confirmed that endo offset emissions generated by the project (McLaughlin pers. comm.). Because SJVA emissions from new projects in the SJVA mitigating emissions below the threshol ambient air quality plans and ensure that significant level of air pollution such that degraded. Accordingly, the impact would Findings: Changes or alterations have be
Impact AQ-3: Result in Impacts on Regional Air Quality within the Bay Area Air Quality Management District	Significant	MM AQ-3: Offset Construction-Generated Criteria Pollutants in the San Francisco Bay Area Air Basin	Less Than Significant	<ul> <li>avoid the significant environmental effection</li> <li>Based on the performance of current incomposition</li> <li>Based on the performance of current</li></ul>
Impact AQ-9: Result in Impacts on Global Climate Change from Construction and O&M	Significant	MM AQ-9: Develop and Implement a GHG Reduction Plan to Reduce GHG Emissions from Construction and Net CVP Operational Pumping to Net Zero	Less Than Significant	<ul> <li>The CEQA Guidelines generally offer two documents:</li> <li>Projects can tier off a plan or similar d defined in CEQA Guidelines § 15183.5 range of project types within a geogra</li> <li>Projects can evaluate and determine s their significance using a performance</li> <li>As discussed in Section 23.3.2, Thresholo pathways to appropriately consider the to the project's emissions sources.</li> </ul>

hrough use of zero-emissions equipment and vehicles er 4 diesel engines, newer on-road and marine engines, onmental Commitments EC-7: Off-Road Heavy-Duty ls and EC-13: DWR Best Management Practices to Reduce commitments would minimize air quality impacts s to reduce construction emissions; however, even with MAQMD's thresholds would occur, and the project would al NOX and particulate matter pollution within the SVAB.

been required in, or incorporated into, the project that fect as identified in the Final EIR. Impacts will be less

incentive programs and reasonably foreseeable future enough emissions reduction credits would be available to ject for all years in excess of SJVAPCD's thresholds VAPCD's thresholds were established to prevent VAB from contributing to CAAQS or NAAQS violations, old levels would avoid potential conflicts with the hat project construction would not contribute a hat regional air quality within the SJVAB would be uld be less than significant with mitigation.

been required in, or incorporated into, the project that fect as identified in the Final EIR. Impacts will be less

incentive programs and reasonably foreseeable future Mitigation Measure AQ-3: Offset Construction-Generated o Bay Area Air Basin is technically feasible (Kirk pers. ls were established to prevent emissions from new ting to CAAQS or NAAQS violations, mitigating emissions id potential conflicts with the ambient air quality plans would not contribute a significant level of air pollution e SFBAAB would be degraded. Accordingly, the impact tigation.

been required in, or incorporated into, the project that fect as identified in the Final EIR. Impacts will be less

wo paths to evaluating GHG emissions impacts in CEQA

r document for the reduction of GHG emissions (as B.5(b)) where the plan addresses GHG emissions for a raphic area.

e significance by calculating GHG emissions and assessing ce standard (CEQA Guidelines § 15064.4).

olds of Significance, this analysis uses both evaluation ne planning and regulatory frameworks most applicable

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Proposed Mitigation	Impact Conclusion After Mitigation- CEQA	Findings of Fact
				O&M and SWP pumping activities are c DWR to provide a departmental strateg reduction goals articulated in SB 32 and Update 2020 is a plan for the reduction project O&M and SWP pumping activiti (California Department of Water Resou significance.
				Construction of the Project is not cover for tiering to evaluate whether project- under CEQA. Accordingly, this analysis from construction and displaced purcha discussed in Section 23.3.2, Thresholds DWR given the project's long-term imp evidence that concludes carbon neutral severe climate change impacts.
				While by different mechanisms, both pa of carbon neutrality by 2045 (or earlier State's long-term climate change goal a 55-18).
				The Project would not affect DWR's est emissions and therefore would not rest considered significant. The Project wou emissions reduction measures and imp reduction measures as set forth in Upda analysis performed in Update 2020.
				Findings: Changes or alterations have b avoid the significant environmental eff than significant with mitigation.
Impact AQ-10: Result in Impacts on Global Climate Change from Land Use Change	Significant	MM CMP: Compensatory Mitigation Plan	Less Than Significant	The impact would be less than significate emissions from land use change are pro- construction activities would result in 0 Project would achieve a yearly net negate groundbreaking, and a cumulative net re- Table 23-76, cumulative net reductions 16,235 to 30,150 metric tons CO2e for land use change would not exceed net zo on GHG emissions or impede DWR's or
				Findings: Changes or alterations have b avoid the significant environmental effe than significant with mitigation.
Hazards, Hazardous Materials, and Wil	dfire			
Impact HAZ-2: Create a Significant Hazard to the Public or the Environment through Reasonably Foreseeable Upset and Accident Conditions Involving the	Significant	MM HAZ-2: Perform a Phase I Environmental Site Assessment Prior to Construction Activities and Remediate	Less Than Significant	Overall, considering the potential for re- operations and maintenance of the Proj exposure to hazardous materials to occ reduce impacts related to hazardous ma

Delta Conveyance Project CEQA Findings of Fact and Statement of Overriding Considerations

e covered by DWR's Update 2020, which was prepared by egy for meeting the State's 2030 and 2045 emissions nd EO B-55-18 (and subsequently, AB 1279), respectively. on of GHG emissions and as such, GHG emissions from ities are eligible to tier from the environmental document ources 2020b) for Update 2020 to evaluate project-level

ered by DWR's Update 2020 and, therefore, is not eligible ct-level GHG emissions would result in a significant impact is evaluates the significance of GHG emissions resulting chases of CVP electricity against a net zero threshold. As ds of Significance, a net zero threshold was selected by plementation timeframe and in recognition of scientific rality must be achieved by mid-century to avoid the most

pathways assess the Project against the larger threshold ier), as discussed below, which is consistent with the and emissions reduction trajectory (AB 1279 and EO B-

stablished emissions reduction goals or baseline (1990) esult in a change in total DWR emissions that would be ould not conflict with any of DWR's specific action GHG nplements all applicable project-level GHG emissions date 2020. The Project is, therefore, consistent with the

been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

cant under CEQA for the Project because cumulative projected to decrease relative to baseline by 2070. Initial n GHG increases early in project implementation. The gative emissions rate approximately 4 to 6 years after t negative GHG impact 15 to 28 years later. As shown in ns projected through 2070 are estimated to range from or the Project. Because cumulative GHG emissions from t zero, the project would not result in a significant impact or the state's ability to achieve their GHG reduction goals.

been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

release of hazardous materials during construction, roject, the potential exists for accidental spills and ccur. The environmental commitments could partially materials but not to a less-than-significant level because of

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Proposed Mitigation	Impact Conclusion After Mitigation- CEQA	Findings of Fact
Release of Hazardous Materials into the Environment				the uncertainty that exists about the loc and the potential for construction work Implementing Mitigation Measure HAZ- Prior to Construction Activities and Ren assessment before construction, the ide within the construction footprint, and th construction and operations commence release of hazardous materials into the o mitigation.
				avoid the significant environmental effe than significant with mitigation.
Impact HAZ-4: Be Located on a Site That Is Included on a List of Hazardous Materials Sites Compiled Pursuant to Government Code Section 65962.5 and, as a Result, Create a Substantial Hazard to the Public or the Environment	Significant	MM HAZ-2: Perform a Phase I Environmental Site Assessment Prior to Construction Activities and Remediate	Less Than Significant	The Project would construct facilities or activities and dewatering at or near site workers and the public to contaminated effects. The potential for exposure durin the proximity of these sites to Project ar during site excavation and grading. Ope not result in employee exposure becaus remediating hazardous sites would be in Measure HAZ-2: Perform a Phase I Envin Activities and Remediate would reduce significant level by requiring preconstru potential for encountering contaminants
				Findings: Changes or alterations have be avoid the significant environmental effe than significant with mitigation.
Impact HAZ-5: Result in a Safety Hazard Associated with an Airport or Private Airstrip	Significant	MM HAZ-5: Wildlife Hazards Management Plan and Wildlife Deterrents	Less Than Significant	Airspace safety hazards occur when pro equipment, encroach on the airspace of miles of the Project are shown on Figure construction footprint. No aspect of the would be taller than 200 feet. Also pursu FAA and Caltrans recommendations and areas where the project intersects with structures more than 100 feet above gro navigation. However, construction woul locations that could obstruct an airport consultation with the Contra Costa Airpo impacts of airspace interference would of the construction footprint due to const
				Findings: Changes or alterations have be avoid the significant environmental effe than significant with mitigation.
Impact HAZ-6: Impair Implementation of or Physically Interfere with an Adopted Emergency Response Plan or Emergency Evacuation Plan	Significant	MM TRANS-1: Implement Site-Specific Construction Transportation Demand Management Plan and Transportation Management Plan	Less Than Significant	With Mitigation Measure TRANS-1, addi would be required during the design ph coordinate between project-provided er and integration with local agencies. Beca

ocations and nature of potential hazardous materials sites rker and public exposure to hazardous materials. AZ-2: Perform a Phase I Environmental Site Assessment emediate would include a Phase I environmental site dentification and evaluation of potential sites of concern the development of a remediation plan before ce. This would reduce all impacts related to accidental ne environment to a less-than-significant level with

been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

on or near known Cortese List sites. Ground-disturbing tes that have not been fully remediated could expose ed soil and/or groundwater resulting in adverse health ring construction would be a significant impact because of and the potential for hazardous materials exposure perations and maintenance activities of the Project would use a plan (e.g., Environmental Site Assessment) for implemented prior to project operations. Mitigation vironmental Site Assessment Prior to Construction ce the potential for significant impacts to a less-thantruction investigations and remediation to reduce the nts and other hazardous materials at construction sites.

been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

roject components, such as buildings or construction of an airport runway. The locations of airports within 2 are 25-5. Eleven airports are within 2 miles of the ne Project would include equipment or structures that rsuant to the State Aeronautics Act, DWR would adhere to nd comply with the recommendations of the OE/AAA. In th the Byron Airport influence area, construction of ground level could cause an obstruction or hazard to air ould not introduce equipment or temporary structures in ort or conflict with airport land uses. In addition, rport Land Use Commission would ensure that potential ld be reduced. As such, impacts on airports within 2 miles onstruction of the Project would be less than significant.

been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

lditional evaluations and discussions with local agencies phase to determine the most appropriate method to emergency response services at the construction sites ecause project construction would not take place without

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	Proposed Mitigation	Impact Conclusion After Mitigation- CEQA	Findings of Fact
				a Transportation Demand Management appropriate emergency response servic maintenance of any of the alternatives mitigation.
				Findings: Changes or alterations have b avoid the significant environmental effe than significant with mitigation.
Public Health				
Impact PH-1: Increase in Vector-Borne Diseases	Significant	MM PH-1a: Avoid Creating Areas of Standing Water During Preconstruction Future Field Investigations a Project Construction MM PH-1b: Develop and Implement a Mosquito Management Plan for Compensatory Mitigation Sites	Less Than Significant	Operation and maintenance of the wate in the creation of potentially suitable m increase the public's exposure to vector conditions.
		on Bouldin Island and at I-5 Ponds		Mitigation Measure PH-1a: Avoid Creat Field Investigations, and Project Constr public health related to increasing suita construction and reduce this impact to mosquito habitat at Project facilities.
				Findings: Changes or alterations have b avoid the significant environmental effe than significant with mitigation.
Paleontological Resources				
Impact PALEO-1: Cause Destruction of a Unique Paleontological Resource as a Result of Surface Ground Disturbance	Significant	MM PALEO-1a: Prepare and Implement a Monitoring and Mitigation Plan for Paleontological Resources MM PALEO-1b: Educate Construction Personnel in Recognizing Fossil Material	Less Than Significant	The potential for destruction of unique Thresholds of Significance, in those por would constitute a significant impact un would occur in locations known to be s project excavation would be consideral Implement a Monitoring and Mitigation Educate Construction Personnel in Rec less-than-significant level by ensuring t develop a monitoring and mitigation pl sensitive for paleontological resources; paleontological resources; and having of paleontological resources be discovered monitoring cannot occur, the shaft spoi alignment alternatives would be simila excavation that would occur (Table 28- disturbance would be less than significat
				Findings: Changes or alterations have b avoid the significant environmental effe than significant with mitigation.

ent Plan and good-faith coordination with local agencies on vices, impacts from construction or operations and es would be reduced to less than significant with

been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

ater conveyance facilities would not be expected to result mosquito breeding habitat and thus would not likely tor-borne diseases in the study area relative to existing

ating Areas of Standing Water During Preconstruction, struction would minimize the potential for any impact on itable vector habitat within the study area during to a less-than-significant level by reducing suitable

been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

re paleontological resources, as defined in Section 28.3.2, ortions of the study area affected by project construction under CEQA because excavation for project facilities e sensitive for paleontological resources and localized able. Mitigation Measures PALEO-1a: Prepare and on Plan for Paleontological Resources, and PALEO-1b: ecognizing Fossil Material would reduce the impacts to a g that a qualified professional paleontologist would plan and determine which activities would occur in units es; educating construction personnel in recognizing qualified monitors in place to monitor for rarily stop construction (per the PRMMP) should red. For excavation at the tunnel shafts where in situ oils would be monitored. The level of impact for all lar but would vary in magnitude based on the amount of 8-4). In summary, the impacts of surface-related ground icant with mitigation.

been required in, or incorporated into, the project that ffect as identified in the Final EIR. Impacts will be less

### Table 3: Project Impacts that are Less-than-Significant/No Impact Before Mitigation

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA
Flood Protection	
Impact FP-1: Cause a Substantial Increase in Water Surface Elevations of the Sacramento River between the American River Confluence and Sutter Slough	Less than Significant
Impact FP-2: Alter the Existing Drainage Pattern of the Site or Area, including through the Alteration of the Course of a Stream or River, or Substantially Increase the Rate or Amount of Surface Runoff in a Manner That Would Result in Flooding On- or Off-Site or Impede or Redirect Flood Flows	Less than Significant
Groundwater	
Impact GW-1: Changes in Stream Gains or Losses in Various Interconnected Stream Reaches	Less than Significant
Impact GW-2: Changes in Groundwater Elevations	Less than Significant
Impact GW-3: Reduction in Groundwater Levels Affecting Supply Wells	Less than Significant
Impact GW-4: Changes to Long-Term Change in Groundwater Storage	Less than Significant
Impact GW-5: Increases in Groundwater Elevations near Project Intake Facilities Affecting Agricultural Drainage	Less than Significant
Impact GW-6: Damage to Major Conveyance Facilities Resulting from Land Subsidence	Less than Significant
Impact GW-7: Degradation of Groundwater Quality	Less than Significant
Water Quality	
Impact WQ-1: Impacts on Water Quality Resulting from Construction of the Water Conveyance Facilities	Less than Significant
Impact WQ-2: Effects on Boron Resulting from Facility Operations and Maintenance	Less than Significant
Impact WQ-3: Effects on Bromide Resulting from Facility Operations and Maintenance	Less than Significant
Impact WQ-4: Effects on Chloride Resulting from Facility Operations and Maintenance	Less than Significant
Impact WQ-5: Effects on Electrical Conductivity Resulting from Facility Operations and Maintenance	Less than Significant
Impact WQ-7: Effects on Nutrients Resulting from Facility Operations and Maintenance	Less than Significant
Impact WQ-8: Effects on Organic Carbon Resulting from Facility Operations and Maintenance	Less than Significant
Impact WQ-9: Effects on Dissolved Oxygen Resulting from Facility Operations and Maintenance	Less than Significant
Impact WQ-10: Effects on Selenium Resulting from Facility Operations and Maintenance	Less than Significant
Impact WQ-11: Effects on Pesticides Resulting from Facility Operations and Maintenance	Less than Significant
Impact WQ-12: Effects on Trace Metals Resulting from Facility Operations and Maintenance	Less than Significant
Impact WQ-13: Effects on Turbidity/Total Suspended Solids Resulting from Facility Operations and Maintenance	Less than Significant
Impact WQ-14: Effects on Cyanobacteria Harmful Algal Blooms Resulting from Facility Operations and Maintenance	Less than Significant
Impact WQ-15: Risk of Release of Pollutants from Inundation of Project Facilities	Less than Significant
Impact WQ-16: Effects on Drainage Patterns as a Result of Project Facilities	Less than Significant
Impact WQ-17: Consistency with Water Quality Control Plans	No Impact
Geology and Seismicity	
Impact GEO-1: Loss of Property, Personal Injury, or Death from Structural Failure Resulting from Rupture of a Known Earthquake Fault or Based on Other Substantial Evidence of a Known Fault	Less than Significant
Impact GEO-2: Loss of Property, Personal Injury, or Death from Strong Earthquake-Induced Ground Shaking	Less than Significant
Impact GEO-3: Loss of Property, Personal Injury, or Death from Earthquake-Induced Ground Failure, including Liquefaction and Related Ground Effects	Less than Significant
Impact GEO-4: Loss of Property, Personal Injury, or Death from Ground Settlement, Slope Instability, or Other Ground Failure	Less than Significant

# Exhibit A CEQA Findings of Fact for the Project's Significant and Unavoidable Impacts, Impacts that are Less Than Significant after Mitigation and Impacts that are Less Than Significant/No Impact

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA
Impact GEO-5: Loss of Property, Personal Injury, or Death from Structural Failure Resulting from Project-Related Ground Motions	Less than Significant
mpact GEO-6: Loss of Property, Personal Injury, or Death from Seiche or Tsunami	Less than Significant
Soils	
impact SOILS-1: Accelerated Soil Erosion Caused by Vegetation Removal and Other Disturbances as a Result of Constructing the Proposed Water Conveyance Facilities	Less than Significant
mpact SOILS-2: Loss of Topsoil from Excavation, Overcovering, and Inundation as a Result of Constructing the Proposed Water Conveyance Facilities	Less than Significant
mpact SOILS-3: Property Loss, Personal Injury, or Death from Instability, Failure, and Damage as a Result of Constructing the Proposed Water Conveyance Facilities on or in Soils Subject to Subsidence	Less than Significant
mpact SOILS-4: Risk to Life and Property as a Result of Constructing the Proposed Water Conveyance Facilities in Areas of Expansive or Corrosive Soils	Less than Significant
ish and Aquatic Resources	
Impact AQUA-4: Effects of Operations and Maintenance of Water Conveyance Facilities on Central Valley Fall-Run/Late Fall–Run Chinook Salmon	Less than Significant
mpact AQUA-8: Effects of Operations and Maintenance of Water Conveyance Facilities on Southern DPS Green Sturgeon	Less than Significant
mpact AQUA-9: Effects of Operations and Maintenance of Water Conveyance Facilities on White Sturgeon	Less than Significant
mpact AQUA-10: Effects of Operations and Maintenance of Water Conveyance Facilities on Pacific Lamprey and River Lamprey	Less than Significant
mpact AQUA-11: Effects of Operations and Maintenance of Water Conveyance Facilities on Native Minnows (Sacramento Hitch, Facramento Splittail, Hardhead, and Central California Roach)	Less than Significant
mpact AQUA-12: Effects of Operations and Maintenance of Water Conveyance Facilities on Starry Flounder	Less than Significant
mpact AQUA-13: Effects of Operations and Maintenance of Water Conveyance Facilities on Northern Anchovy	Less than Significant
mpact AQUA-14: Effects of Operations and Maintenance of Water Conveyance Facilities on Striped Bass	Less than Significant
mpact AQUA-15: Effects of Operations and Maintenance of Water Conveyance Facilities on American Shad	Less than Significant
mpact AQUA-16: Effects of Operations and Maintenance of Water Conveyance Facilities on Threadfin Shad	Less than Significant
mpact AQUA-17: Effects of Operations and Maintenance of Water Conveyance Facilities on Black Bass	Less than Significant
mpact AQUA-18: Effects of Operations and Maintenance of Water Conveyance Facilities on California Bay Shrimp	Less than Significant
mpact AQUA-19: Effects of Operations and Maintenance of Water Conveyance Facilities on Southern Resident Killer Whale	Less than Significant
mpact AQUA-20: Effects of Construction of Water Conveyance Facilities on California Sea Lion	Less than Significant
Terrestrial Biological Resources	
mpact BIO-6: Impacts of the Project on Nontidal Brackish Emergent Wetland	No Impact
mpact BIO-15: Impacts of the Project on Conservancy Fairy Shrimp	No Impact
mpact BIO-17: Impacts of the Project on Sacramento and Antioch Dunes Anthicid Beetles	No Impact
mpact BIO-19: Impacts of the Project on Delta Green Ground Beetle	No Impact
mpact BIO-43: Impacts of the Project on Suisun Song Sparrow and Saltmarsh Common Yellowthroat	No Impact
mpact BIO-49: Impacts of the Project on Salt Marsh Harvest Mouse	No Impact
mpact BIO-50: Impacts of the Project on Riparian Brush Rabbit	No Impact
mpact BIO-52: Impacts of Invasive Species Resulting from Project Construction and Operations on Established Vegetation	Less than Significant
mpact BIO-57: Impacts of the Project on Monarch Butterfly	Less than Significant
and Use	
mpact LU-1: Displacement of Existing Structures and Residences and Effects on Population and Housing	Less than Significant
Impact LU-2: Incompatibility with Applicable Land Use Designations, Goals, and Policies, Adopted for the Purpose of Avoiding or Mitigating an Environmental Effect as a Result of the Project	Less than Significant

# Exhibit A CEQA Findings of Fact for the Project's Significant and Unavoidable Impacts, Impacts that are Less Than Significant after Mitigation and Impacts that are Less Than Significant/No Impact

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA	
Impact LU-3: Create Physical Structures Adjacent to and through a Portion of an Existing Community that Would Physically Divide the Community as a Result of the Project	No Impact	
Recreation		
Impact REC-1: Increase the Use of Existing Neighborhood and Regional Parks or Other Recreational Facilities Such That Substantial Physical Deterioration of the Facility Would Occur or Be Accelerated	Less than Significant	
Impact REC-2: Include Recreational Facilities or Require the Construction or Expansion of Recreational Facilities That Might Have an Adverse Physical Effect on the Environment <sup>2</sup>	Less than Significant (Final EIR, p. 16-29 (lines 1-3).)	
Transportation		
Impact TRANS-2: Conflict with a Program, Plan, Ordinance, or Policy Addressing the Circulation System	Less than Significant	
Impact TRANS-5: Potential Effects on Marine Navigation Caused by Construction, Operation, and Maintenance of Intakes	Less than Significant	
Public Services and Utilities		
Impact UT-1: Result in Substantial Physical Impacts Associated with the Provision of, or the Need for, New or Physically Altered Governmental Facilities, the Construction of Which Could Cause Significant Environmental Impacts on Public Services Including Police Protection, Fire Protection, Public Schools, and Other Public Facilities (e.g., Libraries, Hospitals)	Less than Significant	
Impact UT-2: Require or Result in the Relocation or Construction of New or Expanded Service System Infrastructure, the Construction or Relocation of Which Could Cause Significant Environmental Impacts for Any Service Systems Such as Water, Wastewater Treatment, Stormwater Drainage, Electric Power Facilities, Natural Gas Facilities, and Telecommunications Facilities	Less than Significant	
Impact UT-3: Exceed the Capacity of the Wastewater Treatment Provider(s) that Would Serve the Alternative's Anticipated Demand in Addition to the Provider's Existing Commitments	Less than Significant	
Impact UT-4: Generate Solid Waste in Excess of Federal, State or Local Standards, or Be in Excess of the Capacity of Local Infrastructure, or Otherwise Impair the Attainment of Solid Waste Reduction Goals	Less than Significant	
Energy		
Impact ENG-1: Result in Substantial Significant Environmental Impacts Due to Wasteful, Inefficient, or Unnecessary Consumption of Energy Resources during Project Construction or Operation	Less than Significant	
Impact ENG-2: Conflict with or Obstruct Any State/Local Plan, Goal, Objective, or Policy for Renewable Energy or Energy Efficiency	No Impact	
Air Quality and Greenhouse Gases		
Impact AQ-4: Result in Impacts on Air Quality within the Yolo-Solano Air Quality Management District	Less than Significant	
Impact AQ-6: Result in Exposure of Sensitive Receptors to Substantial Toxic Air Contaminant Emissions	Less than Significant	
mpact AQ-7: Result in Exposure of Sensitive Receptors to Asbestos, Lead-Based Paint, or Fungal Spores That Cause Valley Fever	Less than Significant	
Impact AQ-8: Result in Exposure of Sensitive Receptors to Substantial Odor Emissions	Less than Significant	
Impact AQ-10: Result in Impacts on Global Climate Change from Land Use Change	Less than Significant	
Noise and Vibration		
Impact NOI-2: Generate Excessive Groundborne Vibration or Groundborne Noise Levels	Less than Significant	
Impact NOI-3: Place Project-Related Activities in the Vicinity of a Private Airstrip or an Airport Land Use Plan, or, Where Such a Plan Has Not Been Adopted, within 2 Miles of a Public Airport or Public Use Airport, Resulting in Exposure of People Residing or Working in the Project Area to Excessive Noise Levels	No Impact	
Hazards, Hazardous Materials, and Wildfire		
Impact HAZ-1: Create a Substantial Hazard to the Public or the Environment through the Routine Transport, Use, or Disposal of Hazardous Materials	Less than Significant	

<sup>&</sup>lt;sup>2</sup> The corrections identified above summarize and restate the determinations and conclusions as articulated in the Final EIR, and as incorporated by reference into the DCP CEQA Findings adopted by DWR on December 21, 2023, for Impact Trans-3 and Rec-2. This has been updated on March 21, 2024, per the Errata to the CEQA Findings of Fact for the Delta Conveyance Project.

### Exhibit A CEQA Findings of Fact for the Project's Significant and Unavoidable Impacts, Impacts that are Less Than Significant after Mitigation and Impacts that are Less Than Significant/No Impact

Delta Conveyance Project CEQA Findings of Fact and Statement of Overriding Considerations

Potential Project Impact	Impact Conclusions Before Mitigation- CEQA
Impact HAZ-3: Expose Sensitive Receptors at an Existing or Proposed School Located within 0.25 Mile of Project Facilities to Hazardous Materials, Substances, or Waste	No Impact
Impact HAZ-5: Result in a Safety Hazard Associated with an Airport or Private Airstrip	Less than Significant
Impact HAZ-7: Expose People or Structures, Either Directly or Indirectly, to a Substantial Risk of Loss, Injury, or Death Involving Wildland Fires	Less than Significant
Public Health	
Impact PH-2: Exceedance(s) of Water Quality Criteria for Constituents of Concern Such That Drinking Water Quality May Be Affected	Less than Significant
Impact PH-3: Substantial Mobilization of or Increase in Constituents Known to Bioaccumulate	Less than Significant
Impact PH-4: Adversely Affect Public Health Due to Exposing Sensitive Receptors to New Sources of EMF	Less than Significant
Impact PH-5: Impact Public Health Due to an Increase in Microcystis Bloom Formation	Less than Significant
Mineral Resources	
Impact MIN-1: Loss of Availability of Locally Important Natural Gas Wells as a Result of the Project	No Impact
Impact MIN-2: Loss of Availability of Extraction Potential from Natural Gas Fields as a Result of the Project	No Impact
Impact MIN-3: Loss of Availability of Locally Important Aggregate Resources (Mines and MRZs) as a Result of the Project	No Impact
Impact MIN-4: Loss of Availability of Locally Important Aggregate Resources as a Result of the Project	No Impact

# Exhibit A CEQA Findings of Fact for the Project's Significant and Unavoidable Impacts, Impacts that are Less Than Significant after Mitigation and Impacts that are Less Than Significant/No Impact

### 3 A. Introduction

1

2

Actions by state agencies involving the planning and allocation of water resources, including but not
limited to actions involving nonnavigable tributaries<sup>1</sup> and groundwater<sup>2</sup> that impact public trust
uses on navigable waters, implicate the common law "public trust doctrine."<sup>3</sup> "The range of public
trust uses is broad, encompassing not just navigation, commerce, and fishing, but also the public
right to hunt, bathe or swim. Furthermore, the concept of a public use is flexible, accommodating
changing public needs."<sup>4</sup> "For example, an increasingly important public use is the preservation of
trust lands 'in their natural state..."<sup>5</sup>

11 The doctrine "is an affirmation of the duty of the state to protect the people's common heritage of 12 streams, lakes, marshlands and tidelands, surrendering that right of protection only in rare cases when the abandonment of that right is consistent with the purposes of the trust."<sup>6</sup> "[T]raceable to 13 Roman law," the doctrine "rests on several related concepts. First, that the public rights of 14 15 commerce, navigation, fishery, and recreation are so intrinsically important and vital to free citizens 16 that their unfettered availability to all is essential in a democratic society..."7 Second, "certain interests are so particularly the gifts of nature's bounty that they ought to be reserved for the whole 17 of the populace." <sup>8</sup> "Finally, there is often a recognition ... that certain uses have a peculiarly public 18 nature that makes their adaptation to private use inappropriate." <sup>9</sup> For example, it is "thought to be 19 incumbent upon the government to regulate water uses for the general benefit of the community 20 21 and to take account thereby of the public nature and the interdependency which the physical quality of the resource implies."<sup>10</sup> 22

Importantly, the public doctrine does not operate as an absolute protection of the resources that
 come under its ambit.<sup>11</sup> Under the doctrine, "[t]he state has an affirmative duty to take the public

<sup>&</sup>lt;sup>1</sup> *National Audubon Society v. Superior Court* (1983) 33 Cal.3d 419, 437 (*National Audubon*) [holding the public trust doctrine protects navigable waters "from harm caused by diversion of nonnavigable tributaries"].

<sup>&</sup>lt;sup>2</sup> Env't L. Found. v. State Water Res. Control Bd. (2018) 26 Cal.App.5th 844, 859 ["[T]he public trust doctrine applies if extraction of groundwater adversely impacts a navigable waterway to which the public trust doctrine does apply."].

<sup>&</sup>lt;sup>3</sup> *National Audubon, supra,* 33 Cal.3d at p. 446; *Env't L. Found., supra,* 26. Cal.App.5th at p. 859 [the "determinative fact" in evaluating whether a state agency action implicates the public trust doctrine "is the impact of the activity on the public trust resource"].

<sup>&</sup>lt;sup>4</sup> San Francisco Baykeeper, Inc. v. State Lands Com. (2015) 242 Cal.App.4th 202, 233 (SF Baykeeper), citing City of Berkeley v. Superior Court (1980) 26 Cal.3d 515, 521, and National Audubon, supra, 33 Cal.3d at p. 434.

<sup>&</sup>lt;sup>5</sup> *SF Baykeeper, supra*, 242 Cal.App.4th at p. 233, quoting *National Audubon, supra*, 33 Cal.3d at pp. 434-435. <sup>6</sup> *Id.* at p. 441.

<sup>&</sup>lt;sup>7</sup> Zack's Inc. v. City of Sausalito (2008) 165 Cal.App.4th 1163, 1175-1176 (Zack's), citing Martin v. Waddell (1842) 41 U.S. 367, 413-414.

<sup>&</sup>lt;sup>8</sup> Zack's, supra, 65 Cal.App.4th at p. 1176, quoting Sax, *The Public Trust Doctrine in Natural Resource Law: Effective Judicial Intervention* (1970) 68 Mich. L.Rev. 471, 484–485.

<sup>9</sup> Ibid. <sup>10</sup> Ibid.

<sup>&</sup>lt;sup>11</sup> Santa Barbara Channelkeeper v. City of San Buenaventura (2018) 19 Cal.App.5th 1176, 1186 ["[P]ublic trust interests, like other interests in water use in California, are not absolute."].

- 1 trust into account in the planning and allocation of water resources, and to protect public trust uses 2 whenever *feasible*."12 "[B]oth the public trust doctrine and the water rights system embody 3 important precepts which make the law more responsive to the diverse needs and interests 4 involved in the planning and allocation of water resources. To embrace one system of thought and 5 reject the other would lead to an unbalanced structure, one which would either decry as a breach of 6 trust appropriations essential to the economic development of this state, or deny any duty to protect 7 or even consider the values promoted by the public trust."13 Thus, "[a]s a matter of practical 8 necessity[,] the state may have to approve appropriations despite foreseeable harm to public trust 9 uses. In so doing, however, the state must bear in mind its duty as trustee to consider the effect of 10 the taking on the public trust," and "to preserve, so far as consistent with the *public interest*, the uses 11 protected by the trust."14
- 12 Similar principles apply to agency actions affecting fish and wildlife in California. Indeed, in addition
- to the common law public trust doctrine, there is "a public trust duty derived from statute,
- specifically [California] Fish and Game Code section 711.7, pertaining to fish and wildlife."<sup>15</sup> The
- 15 California Supreme Court observed that "[t]here is doubtless an overlap between the two public
- 16 trust doctrines—the protection of water resources is intertwined with the protection of wildlife,"
- though "the duty of government agencies to protect wildlife is primarily statutory."<sup>16</sup> "[W] hatever its
   historical derivation, it is clear that the public trust doctrine encompasses the protection of
- 19 undomesticated birds and wildlife. They are natural resources of inestimable value to the
- 20 community as a whole."<sup>17</sup>
- 21 In addition, it is the policy of the "state that all state agencies ... shall seek to conserve endangered
- 22 species and threatened species and shall utilize their authority in furtherance of the purposes of the"
- 23 California Endangered Species Act.<sup>18</sup> State agencies should not approve projects that would
- 24 jeopardize the continued existence of any endangered species or threatened species if there are
- reasonable and prudent alternatives available consistent with conserving the species or its habitat
- that would prevent jeopardy.<sup>19</sup>
- 27 Although the legal principles set forth above are well established, "[t]here is no set 'procedural
- 28 matrix' for determining state compliance with the public trust doctrine."<sup>20</sup> While "the public trust
- doctrine operates independently of CEQA[,]"<sup>21</sup> courts have recognized that CEQA review that
- 30 includes an adequate public trust analysis can satisfy the public trust doctrine.<sup>22</sup> Notably, CEQA

<sup>16</sup> Ibid.

- <sup>18</sup> Cal. Fish & G. Code, § 2055.
- <sup>19</sup> Cal. Fish & G. Code, § 2053.

<sup>&</sup>lt;sup>12</sup> *National Audubon, supra*, 33 Cal.3d at p. 446, italics added; *State Water Res. Control Bd. Cases* (2006) 136 Cal.App.4th 674, 778 [in determining whether it is "feasible" to protect public trust values, an agency "must determine whether protection of those values, or what level of protection, is 'consistent with the public interest'"]. <sup>13</sup> *Id.* at p. 445.

<sup>&</sup>lt;sup>14</sup> *Id.* at pp. 446-447, italics added.

<sup>&</sup>lt;sup>15</sup> Environmental Protection and Information Center v. California Dept. of Forestry & Fire Protection (2008) 44 Cal.4th 459, 515.

<sup>&</sup>lt;sup>17</sup> Center for Biological Diversity, Inc. v. FPL Group, Inc. (2008) 166 Cal.App.4th 1349, 1363.

<sup>&</sup>lt;sup>20</sup> SF Baykeeper, supra, 242 Cal.App.4th at p. 234, quoting Citizens for East Shore Parks v. California State Lands Commission (2011) 202 Cal.App.4th 549, 576 (Citizens for East Shore Parks).

<sup>&</sup>lt;sup>21</sup> World Bus. Acad. v. California State Lands Com (2018) 24 Cal.App.5th 476, 510 (World Bus.).

<sup>&</sup>lt;sup>22</sup> See San Francisco Baykeeper, Inc. v. State Lands Com. (2018) 29 Cal.App.5th 562, 581 (SF Baykeeper II); see also Citizens for East Shore Parks, supra, 202 Cal.App.4th at pp. 576-577 [stating that "National Audubon and Carstens indicate evaluating project impacts within a regulatory scheme like CEQA is sufficient 'consideration' for public

- 1 requires the imposition of "feasible alternatives or mitigation measures available that would
- 2 substantially lessen any significant effects that the project would have on the environment[,]"<sup>23</sup>
- 3 including those on water-related resources, such as aquatic and terrestrial species and their
- 4 habitats.
- Here, the Final Environmental Impact Report (EIR), as certified by DWR, sets forth sufficient
  analyses to satisfy the public trust doctrines. Therefore, the Final EIR will assist both the State Water
  Resources Control Board (Board) and the California Department of Fish and Wildlife (CDFW), as
- 8 CEQA responsible agencies, to satisfy, as applicable, obligations under the common law public trust
- 9 doctrine and the statutory public trust doctrine aimed at protecting wildlife and fish species.<sup>24</sup>
- Finally, the state is the trustee of the public trust for the benefit of the people.<sup>25</sup> In *National Audubon*,
- the California Supreme Court held that a "responsible body" must take the public trust into account and, there, identified the Board as the appropriate agency.<sup>26</sup> Here, DWR's approval of the Delta
- 13 Conveyance Project Alternative 5, Bethany Reservoir Alignment, (hereafter referred to as the
- "Project") does not constitutes the allocation of water resources. Moreover, DWR may not commence
- 15 construction of the Project unless the Board issues an order approving a new point of diversion of
- the State Water Project (SWP).<sup>27</sup> Therefore, DWR's approval of the Project does not allow changes in
   allocation of water resources or physical Project construction with the potential to affect public trust
   uses and resources.<sup>28</sup> For this reason, DWR acknowledges that DWR may not be the state agency
   with the common law fiduciary duty to make public trust findings on the Project. Nevertheless, DWR
   has exercised its discretion to provide these findings with the understanding that, even if they are
   not required of DWR, the analysis should assist the Board and CDFW to satisfy, as applicable,
- obligations under the common law public trust doctrine as well as the statutory public trust doctrine
   aimed at protecting wildlife and fish species.

# 24 B. Compliance with Public Trust Doctrines

- 25 DWR as CEQA lead agency has developed environmental commitments, best management practices,
- 26 compensatory mitigation, and mitigation measures intended to, as required by CEQA, reduce
- 27 otherwise "significant environmental effects" of the Project, including potential Project effects on
- 28 public trust uses and resources, to less-than-significant levels whenever feasible. As demonstrated
- 29 in Volume 1 of the Final EIR and discussed further in responses to comments in Volume 2 of the 20 Final EIR Project effects that are less than similarity as here been mitigated to a less than
- 30 Final EIR, Project effects that are less than significant or have been mitigated to a less-than-
- 31 significant level include, but are not limited to, effects on the following public trust uses and

trust purposes"], citing *National Audubon, supra*, 33 Cal.3d at p. 446, fn. 27, and *Carstens v. Cal. Coastal Com.* (1986) 182 Cal.App.3d 277, 289-291 (*Carstens*); but see *SF Baykeeper, supra*, 242 Cal.App.4th at p. 242 [holding the State Lands Commission failed to satisfy the public trust doctrine where it did not affirmatively take the public trust into account "in the context of a CEQA review or otherwise"].

<sup>&</sup>lt;sup>23</sup> CEQA Guidelines, § 15021, subd. (a)(2); see also *id.*, § 15002, subd. (a)(3).

<sup>&</sup>lt;sup>24</sup> See *SF Baykeeper II, supra*, 29 Cal.App.5th at p. 581 [upholding express public trust findings made by the State Lands Commission for leases authorizing a private lessee to mine sand from the San Francisco Bay where the findings were supported by substantial evidence in the project's EIR].

<sup>&</sup>lt;sup>25</sup> National Audubon, supra, 33 Cal.3d at p. 434.

<sup>&</sup>lt;sup>26</sup> *Id*. at pp. 447-448.

<sup>&</sup>lt;sup>27</sup> Wat. Code, § 85088.

<sup>&</sup>lt;sup>28</sup> Compare *Env't L. Found., supra*, 26. Cal.App.5th at p. 852 [holding that both the Board and County of Siskiyou had a "common law duty to consider the public trust interests before allowing groundwater extraction that potentially harms a navigable waterway"].)

resources: navigation, fish and aquatic resources, terrestrial biological resources, water-related
 recreation, and water quality.

As demonstrated in the EIR, substantial evidence supports the conclusion that all potential project impacts on navigation, fish and aquatic resources, terrestrial biological resources, water-related recreation, and water quality are less than significant or can be mitigated to less-than-significant levels, thereby resulting in protection of the public trust resources. However, the Project will result in several significant and unavoidable environmental impacts. Specifically, the EIR concludes that the Project will result in the following sixteen significant and unavoidable environmental impacts:

- 9 Impact AG-1: Convert a Substantial Amount of Prime Farmland, Unique Farmland, Farmland of
   10 Local Importance, or Farmland of Statewide Importance as a Result of Construction of Water
   11 Conveyance Facilities
- Impact AG-2: Convert a Substantial Amount of Land Subject to Williamson Act Contract or under
   Contract in Farmland Security Zones to a Nonagricultural Use as a Result of Construction of
   Water Conveyance Facilities
- Impact AES-1: Substantially Degrade the Existing Visual Character or Quality of Public Views
   (from Publicly Accessible Vantage Points) of the Construction Sites and Visible Permanent
   Facilities and Their Surroundings in Nonurbanized Areas
- Impact AES-2: Substantially Damage Scenic Resources including, but Not Limited to, Trees, Rock
   Outcroppings, and Historic Buildings Visible from a State Scenic Highway
- Impact AES-3: Have Substantial Adverse Impacts on Scenic Vistas
- Impact CUL-1: Impacts on Eligible Built-Environment Historical Resources from Construction
   and Operation of the Project
- Impact CUL-2: Impacts on Unidentified and Unevaluated Built-Environment Historical
   Resources Resulting from Construction and Operation of the Project
- Impact CUL-3: Impacts on Identified Archaeological Resources Resulting from the Project
- Impact CUL-4: Impacts on Unidentified Archaeological Resources That May Be Encountered in
   the Course of the Project
- Impact CUL-5: Impacts on Buried Human Remains
- Impact TRANS-1: Increased Average VMT Per Construction Employee versus Regional Average
- Impact AQ-5: Result in Exposure of Sensitive Receptors to Substantial Localized Criteria
   Pollutant Emissions
- Impact NOI-1: Generate a Substantial Temporary or Permanent Increase in Ambient Noise
   Levels in the Vicinity of the Project in Excess of Standards Established in the Local General Plan
   or Noise Ordinance, or Applicable Standards of Other Agencies
- Impact PALEO-2: Cause Destruction of a Unique Paleontological Resource as a Result of Tunnel
   Construction and Ground Improvement
- Impact TCR-1: Impacts on the Delta Tribal Cultural Landscape Tribal Cultural Resource
   Resulting from Construction, Operations, and Maintenance of the Project Alternatives
- Impact TCR-2: Impacts on Individual Tribal Cultural Resources Resulting from Construction,
   Operations, and Maintenance of the Project Alternatives

- 1 After implementation of feasible CEQA mitigation measures, the Project will result in the sixteen
- 2 significant and unavoidable environmental impacts listed above. While DWR has concluded that
- 3 these sixteen significant and unavoidable environmental impacts do not constitute direct impacts on
- 4 public trust resources and values, DWR has nevertheless considered the potential for these impacts
- 5 to affect public trust resources and values. DWR recognizes that the significant and unavoidable
- 6 impacts of the Project may have indirect effects on public trust values. Ultimately, however, these
  7 significant impacts are tradeoffs that must be considered in the context of the public interests
- 8 advanced by the Project.<sup>29</sup>

9 The mitigation measures set forth in the EIR will reduce the above-listed significant and unavoidable 10 impacts of the Project to the extent feasible, taking into account economic, environmental, legal, 11 social, and technological factors. However, no feasible mitigation measures or alternatives have 12 been identified that avoid or substantially lessen these environmental impacts. DWR has also 13 carefully considered each of these significant and unavoidable impacts of the Project and their 14 potential to affect public trust resources. As discussed further below, these impacts do not render 15 the Project inconsistent with the public trust doctrine.

# C. The Delta Conveyance Project is in the Public Interest Despite the Occurrence of the Above Significant Unavoidable Effects

- 18 19
- 1. The Delta Conveyance Project Strengthens California's Ability to Protect Water Resources

On April 29, 2019, Governor Newsom signed Executive Order N-10-19 directing the California 20 21 Natural Resources Agency, California Environmental Protection Agency, and California Department 22 of Food and Agriculture to develop a comprehensive strategy to build a climate-resilient water 23 system and ensure healthy waterways through the twenty-first century. After a public input period, 24 Governor Newsom released the California Water Resilience Portfolio on July 28, 2020. The California 25 Water Resilience Portfolio identifies a suite of complementary actions to ensure safe and resilient 26 water supplies, flood protection and healthy waterways for the state's communities, economy, and 27 environment. One of the projects identified in the portfolio is new diversion and conveyance 28 facilities in the Delta to safeguard the SWP.

- Factors such as the continuing subsidence of lands, risk of seismic activity and levee failures within
  the Delta, sea level rise, precipitation change, warmer temperatures, and wider variations in
  hydrologic conditions associated with climate change threaten the reliability of the current SWP
  water conveyance system. Additionally, pumping restrictions applied by regulatory agencies to
  address water quality and aquatic species concerns at the south Delta diversion continue to prevent
- 34 the SWP from reliably capturing water when it is available, especially from large storm events.
- 35 Protecting the reliability of SWP water deliveries is critically important. Approximately 27 million
- 36 Californians receive clean, affordable water that flows through the SWP infrastructure in the Delta.
- Water supplied by the SWP has benefits for the entire state and has helped California become the
- fifth largest economy in the world. Planning a future for California while not protecting the SWP
- from future changes would put California's water supply and economy at risk.

<sup>&</sup>lt;sup>29</sup> See, e.g., *World Bus., supra*, 24 Cal.App.5th at p. 509 [upholding State Lands Commission's consideration of its public trust obligations in approving lease extensions for a nuclear power plant because the record showed that the Commission "balance[ed] the public trust rights to navigation, fisheries, and environmental protection against the public need for efficient electrical production"].

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6

- 1 The Project is part of the state's strategy in adapting the SWP water supply to climate change. It
- 2 protects against future water supply losses caused by reasonably foreseeable consequences of
- 3 climate change and extreme weather events, sea level rise, and seismic risks. It also helps ensure
- 4 that the SWP can capture, move, and store water to capitalize on large, but infrequent, storm events.

### 2. Water Resources Will Be Put to Beneficial Use to the Fullest Extent of Which They Are Capable While Protecting Public Trust Values to the Extent Feasible

7 The guiding principle of California's water law and policy is contained in Article X, Section 2, of the 8 California Constitution. This section requires that all uses of the state's water be both reasonable 9 and beneficial. It places a significant limitation on water rights by prohibiting the waste, 10 unreasonable use, unreasonable method of use, or unreasonable method of diversion of water.<sup>30</sup> 11 Additionally, a hallmark of the common law public trust doctrine is that projects impacting 12 navigable waterways must have a connection to water-related activities that provide benefits to the 13 public statewide, and not sacrifice public benefit for private or purely local advantage.<sup>31</sup> By 14 implementing measures for increased reliability of water delivery, along with associated 15 environmental commitments, compensatory mitigation, and mitigation measures set forth in the 16 EIR, the Project will meet the state's responsibilities under the common law public trust doctrine 17 and Article X, Section 2, of the California Constitution that water resources be put to beneficial use to 18 the fullest extent of which they are capable while protecting public trust values to the extent 19 feasible.

# The Delta Conveyance Project Furthers State Policies Set Forth in the Delta Reform Act of 2009

22 Approval of the proposed new points of diversion would serve the public interest by furthering state 23 policies set forth in the Delta Reform Act of 2009. The Delta Reform Act identifies "the two coequal 24 goals of providing a more reliable water supply for California and protecting, restoring, and 25 enhancing the Delta ecosystem."<sup>32</sup> As the Legislature explicitly recognized, "the Sacramento-San 26 Joaquin Delta ... serves Californians concurrently as both the hub of the California water system and the most valuable estuary and wetland ecosystem on the west coast of North and South America."33 27 28 "The economies of major regions of the state depend on the ability to use water within the Delta 29 watershed or to import water from the Delta watershed. More than two-thirds of the residents of 30 the state and more than two million acres of highly productive farmland receive water exported 31 from the Delta watershed."<sup>34</sup> The Project should make SWP water deliveries more dependable, thus 32 providing a more stable business environment for the economies of those areas, including major 33 industries such as high technology, agriculture, manufacturing, and service sectors.

### 34 D. Conclusion

The Project is grounded in concepts of efficiency and public benefit and uses best available science for design and implementation. As mitigated, the Project will not result in significant impacts to navigation, fish and aquatic resources, terrestrial biological resources, water-related recreation,

<sup>&</sup>lt;sup>30</sup> Cal. Const., art. X, § 2; Cal. Wat. Code, § 1240.

 <sup>&</sup>lt;sup>31</sup> National Audubon, supra, 33 Cal.3d at pp. 434-441; The Public Trust Doctrine, State Lands Commission, page 9, available at http://archives.slc.ca.gov/Meeting\_Summaries/2001\_Documents/09-17-01/Items/091701R88.pdf.
 <sup>32</sup> Cal. Pub. Resources Code, § 29702, subd. (a).

<sup>&</sup>lt;sup>33</sup> Cal. Wat. Code, § 85002.

<sup>&</sup>lt;sup>34</sup> *Id.*, § 85004, subd. (a).

1 water quality, or other public trust resources and values. However, the Project will result in the 2 above-listed significant and unavoidable environmental impacts.

3 DWR has taken public trust resources and values into account in considering the merits, and 4 impacts, of the Project. Notwithstanding the Project's significant and unavoidable environmental 5 impacts, the Project is in the public's and State's best interests due to its many public benefits as 6 discussed above and further elaborated in the EIR, CEQA Findings of Fact, and Statement of 7 Overriding Considerations. The Project reflects a proper balancing of public trust values with the 8 public interests that will be served by the Project. In approving the Project, DWR has imposed 9 environmental commitments, best management practices, compensatory mitigation, and mitigation 10 measures identified in the EIR that will protect, to the extent feasible consistent with the public interest,<sup>35</sup> public trust resources and values including, but not limited to, the public rights to 11 12 navigation, fish and aquatic resources, terrestrial biological resources, water-related recreation, and 13 water quality. Therefore, as demonstrated herein and by supporting evidence in the project files, the 14 Project is consistent with the public trust doctrine.

- 15 Furthermore, rights to use water are subject to the Board's obligation under the public trust 16 doctrine as trustee of certain resources for Californians. The Board is charged with the 17 comprehensive planning and allocation of water resources in California.<sup>36</sup> Any change in purpose,
- 18 place of use, or point of diversion requires approval by the Board.

19 Before the Board issues a permit, it must take into account all prior rights and the availability of 20 water in the basin. The Board considers, too, the flows needed to preserve in-stream uses such as 21 recreation and fish and wildlife habitat.<sup>37</sup> DWR, as the permit applicant, will follow the process set 22 forth in the Board's regulations, which includes public notice and a hearing process to address 23 objections. The EIR prepared for the Project should provide sufficient environmental documentation 24 to support action by the Board. A key finding the Board must make before a permit can be issued is that the applicant's use is in the public interest, which is an overriding concern in all Board 25 26 decisions.

- 27 Implementation of projects that are consistent with the Bay-Delta Plan's water quality objectives
- 28 generally satisfy the state's public trust obligations addressed by the Bay-Delta Plan's objectives and
- program of implementation.<sup>38</sup> The Board will have a chance to evaluate the Project's consistency 29
- 30 with Bay-Delta Plan water quality objectives and public trust compliance after DWR submits a
- 31 petition for additional points of diversion for the Project. The Project is also subject to the 32
- continuing authority of the Board in accordance with law and in the interest of the public welfare to
- 33 protect public trust uses and to prevent waste, unreasonable use, unreasonable method of use, or

<sup>&</sup>lt;sup>35</sup> State Water Res. Control Bd. Cases, supra, 136 Cal.App.4th at p. 778 [in determining whether it is "feasible" to protect public trust values, an agency "must determine whether protection of those values, or what level of protection, is 'consistent with the public interest'"].

<sup>&</sup>lt;sup>36</sup> Robie, Effective Implementation of the Public Trust Doctrine in California Water Resources Decision-Makina: A View From the Bench (2012) 45 U.C. Davis L. Rev. 1155, 1161, quoting National Audubon, supra, 33 Cal.3d at p. 449. 37 See, e.g., Cal. Wat. Code, § 85806.

<sup>&</sup>lt;sup>38</sup> State Water Res. Control Bd. Cases, supra, 136 Cal.App.4th at pp. 778-779 [rejecting that the Board, in a water rights proceeding, "was obligated under the public trust doctrine to implement more generous flow objectives" than required by the Bay-Delta Plan. In adopting the Bay-Delta Plan, "[i]t was for the Board in its discretion and judgment to balance all of the [] competing interests in adopting water quality objectives and formulating a program of implementation to achieve those objectives."].

California Department of Water Resources

- 1 unreasonable method of diversion of water.<sup>39</sup> Should the Board modify the existing water quality
- 2 objectives in the future in consideration of its public trust obligations or otherwise, the Project
- 3 would be required to operate consistent with all applicable water quality objectives.

<sup>&</sup>lt;sup>39</sup> Stanford Vina Ranch Irrigation Co. v. State (2020) 50 Cal.App.5th 976, 1005, fn. 9 ["[T]he public trust doctrine exists 'alongside the rule of reasonableness.' [Citation.] [The Board may rely on] [e]ach doctrine independently [to] limit[] the private use of water in this state."]; *Env't L. Found., supra*, 26 Cal.App.5th at p. 862 ["the Board's authority to protect the public trust is independent of and not bounded by the limitations on the Board's authority to oversee the permit and license system"]; *United States v. State Water Res. Control Bd.* (1986) 182 Cal.App.3d 82, 150, citing *National Audubon, supra*, 33 Cal.3d at p. 447; see also *Santa Clarita Water Co. v. Lyons* (1984) 161 Cal.App.3d 450, 462 [The "Board has exclusive control ... over appropriation of water"]; see also State Water Board Water Right Revised Decision 1641 (2000), p. 148 ["The continuing authority of the Board also may be exercised by imposing further limitations on the diversion and use of water by the permittee in order to protect public trust uses."].

	Exhibit C
Final EIR Modi	fications

DWR made minor edits throughout Volume 1 of the Final EIR, such as modifications to punctuation
and correction of misspellings and typos. In addition, DWR made minor formatting changes
throughout Volume 1 of the Final EIR, such as modification to headings, corrections to page
numbers, and corrections of formatting issues found in graphs, charts, and tables. Minor edits or
formatting changes to the Draft EIR reflected in Volume 1 of the Final EIR do not result in any new
significant environmental impacts or a substantial increase in the severity of an environmental
impact that was previously analyzed in the Draft EIR.

10 In addition to grammar and formatting changes, new information was added to the Final EIR to 11 clarify, amplify (i.e., expands in stating or describing, as by details or illustrations; clarifies by 12 expanding), or makes insignificant modifications to discussion and analysis in the Draft EIR. Key 13 modifications included in the Volume 1 of the Final EIR are identified in the table below with a 14 summary regarding why the modifications do not result in the disclosure of a new significant 15 impact, result in an increase in the severity or magnitude of an impact, or do not result in the need 16 for additional required mitigation to which DWR is unwilling to commit. The Final EIR provides 17 further information regarding modifications that occurred between the Draft EIR and the Final EIR. 18 This information can be found in Final EIR, Volume 2, Common Response 1, CEQA Process, General 19 Approach to Analysis, and Other Environmental Review Issues, which explains CEOA recirculation 20 requirements and why the information and modifications contained in the Final EIR do not meet recirculation requirements either individually or collectively: Final EIR, Volume 2, Common 21 22 Response 3, Alternatives Development and Description, which also describes some of the 23 substantive project description refinements included in the table below and why they do not trigger 24 the need for recirculating the Draft EIR; Final EIR, Volume 2, Common Response 11, Terrestrial Biological Resources and Compensatory Mitigation Plan, which describes refinements to the 25 26 Compensatory Mitigation Plan; and Final EIR, Volume 2, Common Response 15, Air Quality and 27 Greenhouse Gases, which describes refinements to air quality modeling and assumptions. Individual 28 responses to comments in Volume 2, Chapter 4, Response to Comments Tables, also address 29 refinements made to the Draft EIR in response to those individual comments where applicable. The 30 summary table below cites relevant sections of Volume 1 of the Final EIR where appropriate.

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Modification	Modification Consideration
Clarifications to Table 1-1, Summary of Potential Agencies and Review, Approval, or Other Responsibilities, in Addition to Those under CEQA in Final EIR, Volume 1, Chapter 1, <i>Introduction</i> .	The clarifying text added to Table 1-1 is about different agencies and their potential roles and responsibilities. The table was not used in the impact analysis. Therefore, the added information merely amplifies discussion in the Draft EIR and does not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5.
Clarifications to use of sedimentation basins and drying lagoons for all alternatives during operations in Final EIR, Volume 1, Chapter 3, <i>Description of the Proposed Project and</i> <i>Alternatives</i> , Section 3.4.1.2, <i>Sedimentation Basins</i> <i>and Drying Lagoons</i> .	The inclusion of the information regarding the sedimentation basins and drying lagoons further clarifies how the sedimentation basins and drying lagoons would operate and the duration in which operation would occur. These clarifications complement and amplify the information previously included in Draft EIR Chapter 3, <i>Description of the Proposed Project and Alternatives</i> , and evaluated throughout the EIR and do not materially change the description of the sedimentation basins and drying lagoons. The added information does not result in a new or more severe impact requiring additional analysis, change impact conclusions presented in the Draft EIR, or require additional mitigation measures to which DWR is unwilling to commit. Therefore, the new information does not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5.
Inclusion of undergrounding of 1.9 miles of SCADA lines between Freeport and north of Intake A across from Clarksburg consistent with description in Final EIR, Volume 1, Chapter 3, <i>Description of the Proposed Project and</i> <i>Alternatives</i> , Section 3.4.11, <i>SCADA Facilities</i> , clarifying that some of the SCADA lines would be undergrounded along existing roads and project access routes (as shown in Figure 3-14).	The Draft EIR stated that wherever possible, underground SCADA routes would be located along existing roads and project access routes. The Draft EIR evaluated the type and magnitude of impacts associated with installing SCADA lines underground, as well overhead. As described in Final EIR, Volume 2, Common Response 3, <i>Alternatives Development and Description</i> , the alignment between Freeport and north of Intake A across from Clarksburg was included in the study areas in the Draft EIR and undergrounding the alignment would result in highly localized, temporary, and minor soil disturbances and would require the use of similar construction equipment and construction trips as already included in the EIR evaluation for all resources. The inclusion of this information in the Final EIR complements the description in the Draft EIR that SCADA lines would be undergrounded where appropriate . The new information does not represent new or more severe impacts requiring additional analysis, change impact conclusions presented in the Draft EIR, or require additional mitigation measures to which DWR is unwilling to commit. Therefore, the new information does not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5.
Clarification of the use of non-specular material for aboveground power lines in Final EIR, Volume 1, Chapter 3, <i>Description of the Proposed Project and</i> <i>Alternatives</i> , Section 3.4.10, <i>Electrical Facilities</i> .	The inclusion of the information regarding non-specular material further clarifies the type of materials used for above power lines. Non-specular material is material that reflects light diffusely and evenly or scatters light. The inclusion of the use of this material complements the information previously included in Draft EIR Chapter 3, <i>Description of the Proposed Project and Alternatives</i> , and evaluated throughout the EIR and do not materially change the description of the aboveground power lines. The added information does not

Modification	Modification Consideration
	represent new or more severe impacts requiring additional analysis, change impact conclusions presented in the Draft EIR, or require additional mitigation measures to which DWR is unwilling to commit. Therefore, the information does not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5.
Refinements to location and acreage of temporary uses within the overall footprint at the Southern Complex where the Southern Complex is discussed in Final EIR, Volume 1, Chapter 3, <i>Description of</i> <i>the Proposed Project and Alternatives</i> , for alternatives (except Alternative 5).	Chapter 3, <i>Description of the Proposed Project and Alternatives</i> , was updated to more accurately reflect the types of activities that would occur within the construction area. As an example, the area required for reusable tunnel material (RTM) storage decreased between the Draft and Final EIR based on new estimates provided by the project engineers. However, these changes would not affect the land area required to construct and operate the project or the resulting environmental impacts that may result from land conversion. In addition, small refinements to the project's footprint would result in minor differences in total acreages reported in the Draft and Final EIR. These small refinements would not affect the magnitude or significance of environmental impacts reported in the Draft EIR. The added information does not result in a new or more severe impact requiring additional analysis, change impact conclusions presented in the Draft EIR, or require additional mitigation measures to which DWR is unwilling to commit. Therefore, the information does not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5.
Reconfiguring of Bethany Reservoir Pumping Plant and Surge Basin facilities primarily within the Bethany Complex footprint for Alternative 5 to allow approximately 35 acres to remain undisturbed within the footprint of these facilities, as described in Final EIR, Volume 1, Chapter 3, <i>Description of the Proposed Project and</i> <i>Alternatives</i> , Section 3.14.1, <i>Bethany Complex</i> , and Final EIR, Volume 2, Common Response 3, <i>Alternatives Development and Description</i> .	As identified in Chapter 3, <i>Description of the Proposed Project and Alternatives</i> , and further described in Common Response 3, <i>Alternatives Development and Description</i> , the reconfiguration of the Bethany Complex in the Final EIR would not create new surface impacts relative to the Draft EIR, require additional mitigation measures, or result in a change to any of the evaluations or impact conclusions contained in the Draft EIR related to any resource analyzed in the EIR. Furthermore, the operation of the facilities under the reconfigured Bethany Complex in the Final EIR would be the same as described in the Draft EIR and there would be no changes to any operation-related impacts. Specifically, the two driveways located outside the original footprint evaluated in the Draft EIR of the Bethany Complex would not result in impacts greater or of a different type than disclosed in the Draft EIR to permanent surface impacts in the Final EIR, would not change the change in disturbance type at the Bethany Complex, from temporary surface impacts in the Draft EIR to permanent surface impacts in the Final EIR, would not change the severity or magnitude of the impacts already disclosed in the resource chapters of the EIR (i.e., Chapters 7 through 32). Therefore, the reconfiguration does not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5.

Modification	Modification Consideration
Inclusion of broader discussion and clarifications of access road and rehabilitation in Final EIR, Volume 1, Chapter 3, <i>Description of the Proposed</i> <i>Project and Alternatives</i> , Section 3.4.7, <i>Access</i> <i>Roads</i> .	The inclusion of the access road information further clarifies the location and timing of road rehabilitation. These clarifications complement the descriptions of road rehabilitation previously included in Draft EIR Chapter 3, <i>Description of the Proposed Project and Alternatives</i> , and evaluated throughout the EIR and do not materially change the description of the road rehabilitation or the analyses. The added information does not represent new or more severe impacts requiring additional analysis, change impact conclusions presented in the Draft EIR, or require additional mitigation measures to which DWR is unwilling to commit. Therefore, the information does not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5.
Inclusion of left-turn merge lane along 1 mile of Twin Cities Road 44 feet wide with three 12-foot- wide paved lanes in Final EIR, Volume 1, Appendix 3D, <i>Intakes, Roads, and Shafts Summary Tables</i>	The addition of the left-turn merge lane would not cause additional or more severe traffic impacts because it would improve, rather than worsen, traffic flow on Twin Cities Road. It would allow through traffic to pass without waiting for vehicles turning left to clear and not affect vehicle miles traveled (VMT) or conflict with a program, plan, ordinance, or policy addressing the circulation system because it is a roadway improvement that would not increase VMT beyond that already analyzed in the Draft EIR for construction and operation. Pursuant to required Mitigation Measure TRANS-1, first responders would pass through the area during construction, and, after construction, first responders would be able to use the left-turn merge lane.
	Other environmental resources would not be affected by the construction of the left-turn merge lane beyond the type and severity of impacts evaluated and disclosed in the Draft EIR because the left-turn merge lane would primarily be located within the boundaries of the Twin Cities Road road-widening improvements proposed under the project alternatives along existing road section(s). A highly limited and minimal additional area of disturbance (i.e., 1.5 acres) in a disturbed area located primarily within the existing road right-of-way would occur. Any known or unknown environmental resources that could occur in this strip of disturbed land have been considered in Chapters 7 through 32 of the EIR because this area is within the study area included for environmental resources. Mitigation measures identified in the EIR related to permanent disturbances would be implemented and the permanent disturbance of this additional limited area of 1.5 acres would not substantially increase the severity of impacts analyzed in the Draft EIR. Therefore, this highly limited and minimal additional area of disturbance would not constitute a substantial increase in severity of impacts disclosed in the Draft EIR. The construction of the left-turn merge lane would take place concurrently with other construction activities associated with the project alternatives at Twin Cities Road and would not result in an increase in air quality emissions beyond what was already analyzed

Modification	Modification Consideration
	in the Draft EIR because the same type and duration of equipment use would occur. The added information regarding the left-turn merge lane does not result in a new or more severe impact requiring additional analysis, change impact conclusions presented in the Draft EIR, or require additional mitigation measures to which DWR is unwilling to commit. Therefore, the addition of the left-turn merge lane does not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5.
Some refinements were made to the project description in Final EIR, Volume 1, Chapter 3, <i>Description of the Proposed Project and</i> <i>Alternatives</i> , to clarify operations in Section 3.16.3, <i>Integration of North Delta Intakes with South Delta</i> <i>Facilities</i> .	The operations description was revised to further clarify that DWR would divert excess flows in winter and spring and is not proposing to change upstream reservoir operations. Final EIR, Volume 2, Common Response 1, <i>CEQA Process, General Approach to Analysis, and</i> <i>Other Environmental Review Issues,</i> describes the scope of the analysis contained in the Final EIR, including areas upstream of the north Delta intakes. Final EIR, Volume 2, Common Response 3, <i>Alternatives Development and Description,</i> also explicitly responds to the concerns about upstream operations. Final EIR, Volume 2, Common Response 3 also responds to comments requesting analysis under Temporary Urgency Change Orders. The operation of the project gives the state the opportunity to capture high flows during periods of excess flows, up to what is permitted under the existing DWR water rights. Diversions at the proposed north Delta intakes would mostly occur in the winter and spring, when the conditions described above are most likely to occur. Because the project would operate this way (i.e., capture high flows on top of what can be diverted in the south Delta), DWR does not anticipate use of the proposed north Delta diversion during dry conditions where the south Delta would not be operating at capacity, such as times when a Temporary Urgency Change Order is in place. These clarifications in Final EIR, Volume 1, Chapter 3, <i>Description of the Proposed Project and Alternatives</i> , and further described in Final EIR, Volume 2, Common Response 3 complement the descriptions of operations previously included in Draft EIR Chapter 3; operations modeled using CalSim 3; and operations evaluated throughout the EIR. The added information regarding operations does not result in a new or more severe impact requiring additional analysis, change impact conclusions presented in the Draft EIR, or require additional malysis, change impact conclusions presented in the Draft EIR, or require additional mitigation measures to which DWR is unwilling to commit. Therefo
Inclusion of figures based on DSM2 modeling results in Final EIR, Volume 1, Chapter 5, <i>Surface</i> <i>Water</i> , regarding reverse flows in the Sacramento River near Freeport.	The inclusion of these graphs is to graphically depict DSM2 model results provided in Final EIR, Volume 1, Appendix 5A, Modeling Technical Appendix, Section C, <i>One Dimensional Delta Hydrodynamics and Water Quality Modeling Results</i> , Attachment 1, <i>DSM2 Model Results for Existing Conditions and Alternatives at 2020</i> . This supports the information that was previously included in the Draft EIR regarding reverse flows in the Sacramento River

Modification	Modification Consideration
	near Freeport and complements the modeled data included in Draft EIR and Final EIR. Therefore, the new figures merely clarify/amplify the discussion in the Draft EIR and does not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5.
Refinements to Final EIR, Volume 1, Chapter 8, <i>Groundwater</i> , Impact GW-4 regarding the discussion of operation groundwater modeling results related to groundwater storage to clarify the meaning of the modeling results; inclusion of electrical conductivity in Mitigation Measure GW- 1.	Refinements were made to Mitigation Measure GW-1, which now includes a provision to also monitor for changes in electrical conductivity (EC) at the same wells that would be used to monitor for changes in groundwater elevations. The EC monitoring would occur over the same period as for monitoring groundwater elevations. The addition of EC monitoring to Mitigation Measure GW-1 was not made because of a new groundwater significance finding between the Draft and Final EIR, as explained in Final EIR, Volume 2, Common Response 10, <i>Surface Water Quality and Groundwater Resources</i> , but rather to support the less-than-significant impact determination regarding groundwater quality. Changes to mitigation measures that do not increase the severity of the environmental impacts disclosed in the draft EIR do not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5. ( <i>Yerba Buena Neighborhood Consortium, LLC v. Regents of Univ. of California</i> (2023) 95 Cal. App. 5th 779, 808.)
Clarifications to Impact GW-1, Impact GW-2, and Impact GW-3 in Final EIR, Volume 1, Chapter 8, <i>Groundwater</i> , regarding use of Mitigation Measure GW-1.	The wording of Impacts GW-1, GW-2, and GW-3 in EIR Chapter 8, <i>Groundwater</i> , was revised to make it clearer that the impacts on groundwater resources described in the Draft EIR are less than significant before the implementation of the monitoring and response measures described in Mitigation Measure GW-1. Therefore, the new information merely clarifies/amplifies the discussion in the Draft EIR and does not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5.
Clarification of methodology in Final EIR, Volume 1, Chapter 9, <i>Water Quality.</i>	Clarifying information was included in Section 9.3.1, <i>Methods for Analysis</i> , of Chapter 9, <i>Water Quality</i> , to clarify the source, organization, aggregation of water quality data used in the impact analyses. The methodology for determining impacts was not modified and impact analyses and determinations were not modified as a result of the clarification. As described in Final EIR, Volume 2, Common Response 10, <i>Surface Water Quality and</i> <i>Groundwater Resources</i> , the historical, reconstructed water year types on the California Data Exchange Center website were used to aggregate the modeling results because these are publicly available and widely referenced in research and analysis related to the Delta. The presentation of average constituent levels by water year type is informational and the impact conclusions are based on all modeled changes, particularly those represented in the exceedance plots containing modeling output for the entire 93-year simulation period, as well as modeled changes in frequency of exceedance of water quality objectives. Therefore,

Modification	Modification Consideration
	the new information merely clarifies/amplifies the discussion in the Draft EIR and does not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5.
Inclusion of Mitigation Measure WQ-4 in Final EIR, Volume 1, Chapter 9, <i>Water Quality</i> , and Appendix 9M, <i>Contra Costa Water District Interconnection</i> <i>Facility Mitigation Measure</i> , regarding the Contra Costa Water District Interconnection Facility, to further reduce the less-than-significant impacts on chloride discussed in Impact WQ-4.	Mitigation Measure WQ-4: <i>Contra Costa Water District Interconnection Facility</i> has been included in the Final EIR to further reduce less-than-significant impacts on chloride previously disclosed under Impact WQ-4: <i>Effects on Chloride Resulting from Facility Operations and Maintenance</i> in Chapter 9, <i>Water Quality</i> . Changes to, or addition of, mitigation measures that do not increase the severity of the environmental impacts disclosed in the Draft EIR do not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5. ( <i>Yerba Buena Neighborhood Consortium, LLC v. Regents of Univ. of California</i> (2023) 95 Cal. App. 5th 779, 808.)
	Appendix 9M, <i>Contract Costa Water District Interconnection Facility Mitigation Measure</i> , was included in the Final EIR to provide an evaluation of the environmental impacts of constructing and operating the interconnection facility. All environmental resources are analyzed in Appendix 9M. Impacts on most resources are determined to be less than significant or less than significant with mitigation incorporated. However, project impacts identified as significant and unavoidable in the Draft EIR (e.g., agricultural resources, traffic, cultural resources, Tribal Cultural Resources) would remain significant and unavoidable impacts would occur, there would not be a substantial increase in the severity of significance given the location of Mitigation Measure WQ-4, the limited duration of construction, and the relatively small area of disturbance during construction. The evaluation of the new mitigation measure concluded that implementing the measure would not result in any new significant impacts or substantially increase the severity of impacts not already disclosed in the Draft EIR, nor would it require additional mitigation measures that DWR is unwilling to implement. Therefore, the new mitigation measure does not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5.
Additional clarifications regarding construction methods and geotechnical investigations in Final EIR, Volume 1, Chapter 10, <i>Geology and Seismicity</i> , Section 10.3.1.1, <i>Process and Methods of Review for</i> <i>Geology and Seismicity</i> , to provide details on Delta Conveyance Design and Construction Authority	Information was added to Final EIR, Volume 1, Chapter 10, <i>Geology and Seismicity</i> , Section 10.3.1.1, <i>Process and Methods of Review for Geology and Seismicity</i> , to clarify the types of information used in the analysis, how that information was used, and how new and future data would be used in the design process. As described in the section, available geological and geotechnical information was reviewed and considered in the EPR screening analyses to understand subsurface geology and groundwater conditions related to preliminary

Modification	Modification Consideration
(DCA) activities and design criteria.	design criteria and the need for specific construction methods. Additional information gained during geotechnical investigations that occurred during preparation of the DCA Engineering Project Reports (EPRs) and EIR further validated the geotechnical assumptions and construction methods that were used for the conceptual designs of each facility in the EPRs. Additional geological and geotechnical investigations would be conducted during the design phase to further develop design criteria and provide geotechnical design parameters for proposed facilities.
	These clarifications regarding how DCA will conduct geotechnical investigations and use information gained to inform activities and design criteria as well as construction methods complement the descriptions of the construction methods provided in Final EIR, Volume 1, Chapter 3, <i>Description of the Proposed Project and Alternatives</i> , and evaluated throughout the EIR and do not materially change the description of the construction methods or the analyses based on the construction methods. Furthermore, this information is not used in the impact analysis in Final EIR, Volume 1, Chapter 10 or elsewhere. Therefore, the new information merely clarifies/amplifies the discussion in the Draft EIR and does not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5.
Inclusion of juvenile Chinook salmon screen passage time analysis at 19°C in Final EIR, Volume 1, Chapter 12, <i>Fish and Aquatic Resources</i> , Impact AQUA-2, which further supports the impact determination of less than significant with mitigation incorporated.	The inclusion of this new information in the discussion of Impact AQUA-2 augments the original analysis in the Draft EIR, which was focused on screen passage at 12°C. The new information complements the analysis previously performed on screen passage and further supports the previous impact determination of less than significant with mitigation incorporated. CMP-25: <i>Tidal Habitat Restoration to Mitigate North Delta Hydrodynamic Effects on Chinook Salmon Juveniles</i> and CMP-26: <i>Channel Margin Habitat Restoration for Operations Impacts on Chinook Salmon Juveniles</i> , as described in Attachment 3F.1, <i>Compensatory Mitigation Design Parameters</i> , are still required and no changes to the mitigation were made because of this new information. The new information merely confirms previous conclusions, and thus does not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5. (See <i>San Francisco Baykeeper v. California State Lands Commission</i> (2015) 242 Cal.App.4th 202, 224-225 [new modeling confirming earlier conclusion about effects of mining on Bay environment did not trigger recirculation]; <i>Beverly Hills Unified School Dist. v. Los Angeles County Metropolitan Transportation Commission</i> (2015) 241 Cal.App.4th 627, 660-666 [Final EIR containing substantial amounts of new information, including numerous new seismic studies did not trigger recirculation].)

Modification	Modification Consideration
Clarifications and additions of factors explaining patterns in north Delta exports and south Delta exports; clarification of footnotes in summary tables of results; and clarification of 5% significance threshold value used for impact analyses in Final EIR, Volume 1, Chapter 12, Fish and Aquatic Resources.	These clarifications further explain or add to the information regarding patterns in north Delta exports, tables of results, or the use of 5% significance threshold value. They complement the information that was previously provided in the Draft EIR and do not modify the methodology(ies) used for determining impacts or modify impact determinations. Therefore, the new information merely clarifies/amplifies the discussion in the Draft EIR and does not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5.
Inclusion of Impact AQUA-20 in Final EIR, Volume 1, Chapter 12, <i>Fish and Aquatic Resources</i> , regarding California sea lions, which discloses a less-than-significant impact.	The purpose of the analysis contained in the EIR is to disclose and evaluate potentially significant impacts. DWR did not address California sea lions in the Draft EIR because the study area is not within the traditional breeding or nonbreeding range of the population and therefore DWR had not previously identified potential effects on California sea lions as a potentially significant impact. DWR included an analysis of potential impacts on California sea lions in Chapter 12, <i>Fish and Aquatic Resources</i> , of the Final EIR, Volume 1, because of public comment. As disclosed in Chapter 12 of the Final EIR, Volume 1, the project would not result in a population-level effect on the species because the project would not permanently impede potential movement or foraging by individuals through the study area, and the study area is not within the traditional breeding or nonbreeding range for the population. Because few, if any, individuals would be affected during construction or operation of the project, the impact under CEQA is less than significant. Recirculation is required where the Final EIR discloses a new significant environmental impact of a project that was not analyzed in the Draft EIR. New information included in a Final EIR explaining why an impact alleged by a commenter is less than significant does not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5.
Refinements to Final EIR, Volume 1, Chapter 13, <i>Terrestrial Biological Resources</i> , including: adding specificity to Mitigation Measure BIO-53 to address design specifications, monitoring, and adaptive management; clarifying that if California Department of Fish and Wildlife (CDFW) develops guidance for sandhill crane surveys and work windows DWR will use the guidance; clarifying tricolored blackbird analysis in Impact BIO-44.	As described below, the added information for habitat connectivity, sandhill cranes, and tricolored blackbird, does not represent new or more severe impacts requiring additional analysis, change impact conclusions presented in the Draft EIR, or require additional mitigation measures to which DWR is unwilling to commit. Therefore, the information does not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5. Mitigation Measure BIO-53 was revised to further clarify the wildlife crossing and connectivity specialist credentials, how the specialist will contribute to the project design phase to ensure adequate wildlife crossing and connectivity element design and outcomes,

Modification	Modification Consideration
	and adaptive management for connectivity and crossings. These modifications provide additional detail to Mitigation Measure BIO-53 but, as described in Final EIR, Volume 2, Common Response 11, <i>Terrestrial Biological Resources and Compensatory Mitigation Plan</i> , do not result in a change to an impact determination. The change to the mitigation measure does not trigger recirculation because it does not introduce new mitigation to which DWR is unwilling to commit. Changes to, or addition of, mitigation measures that do not increase the severity of the environmental impacts disclosed in the draft EIR do not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5. ( <i>Yerba Buena Neighborhood Consortium, LLC v. Regents of Univ. of California</i> (2023) 95 Cal. App. 5th 779, 808.)
	Clarification was added to Impact BIO-33 regarding the potential for sandhill cranes to arrive earlier than September 15 and stay later than March 15 because the construction of the project will occur for many years. DWR added text explaining that if CDFW develops guidance regarding sandhill crane surveys and work windows, DWR will adjust survey dates and dates included in mitigation measures to minimize potential impacts on sandhill cranes. Changes to, or addition of, mitigation measures that do not increase the severity of the environmental impacts disclosed in the draft EIR do not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5. ( <i>Yerba Buena Neighborhood Consortium, LLC v. Regents of Univ. of California</i> (2023) 95 Cal. App. 5th 779, 808.).
	Impact BIO-44, Appendix 3F, <i>Compensatory Mitigation Plan for Special-Status Species and</i> <i>Aquatic Resources</i> , and Attachment 3F.1, <i>Compensatory Mitigation Design Parameters</i> , have been modified to recognize breeding foraging habitat loss as a potential impact on tricolored blackbird and propose mitigation to compensate for this impact. Because many non-breeding foraging and roosting habitat types also serve as breeding foraging types, this change will also protect those habitat types. The revision to Attachment 3F.1 does not result in a change in impact determination for tricolored blackbird identified in Final EIR, Volume 1, Chapter 13, <i>Terrestrial Biological Resources</i> , but adds additional mitigation to further reduce potential adverse effects on tricolored blackbird that were previously disclosed in the Draft EIR. Mitigation Measure BIO-44 has been revised to include surveys during the nonbreeding season (August 1–March 14) 1 year prior to the start of construction and then the year of construction to establish use of roosting habitat. Mitigation Measure BIO-44 includes the commitment that three surveys will be conducted within 15 days prior to nighttime construction, with one of the surveys within 5 days prior

Modification	Modification Consideration
	to the start of nighttime construction and the establishment of a 300-foot nondisturbance buffer around occupied roost sites. This revision does not result in a change in impact determination for tricolored blackbird identified in Final EIR, Volume 1, Chapter 13. Although Impact BIO-44 was updated, the additional information merely confirms previous conclusions, and thus does not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5. (See <i>San Francisco Baykeeper v.</i> <i>California State Lands Commission</i> (2015) 242 Cal.App.4th 202, 224-225 [new modeling confirming earlier conclusion about effects of mining on Bay environment did not trigger recirculation]; <i>Beverly Hills Unified School Dist. v. Los Angeles County Metropolitan</i> <i>Transportation Commission</i> (2015) 241 Cal.App.4th 627, 660-666 [Final EIR containing substantial amounts of new information, including numerous new seismic studies did not trigger recirculation].) Furthermore, changes to, or addition of, mitigation measures that do not increase the severity of the environmental impacts disclosed in the draft EIR do not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5. ( <i>Yerba Buena Neighborhood Consortium, LLC v. Regents of Univ. of</i> <i>California</i> (2023) 95 Cal. App. 5th 779, 808.)
Inclusion of monarch butterfly in Final EIR, Volume 1, Chapter 13, <i>Terrestrial Biological</i> <i>Resources</i> , because it is a U.S. Fish and Wildlife candidate species being considered for listing, which discloses a less-than-significant impact, and removal of western bumble bee from Chapter 13 and associated appendices because a recent California Department of Fish and Wildlife publication shows the species' known range is outside of the study area.	The purpose of the analysis contained in the EIR is to disclose and evaluate potentially significant impacts. DWR had not previously identified potential effects on monarch butterflies as a potentially significant impact because overwintering habitat, which is limited for the species, would not be affected by the project and there are no known overwintering populations within 10 miles of the study area. The Final EIR includes Impact BIO-57, which evaluates the monarch butterfly because it is a U.S. Fish and Wildlife candidate species being considered for listing and may be listed in the near future. The analysis determines impacts on monarch butterfly to be less than significant. Recirculation is required where the Final EIR discloses a new significant environmental impact of a project that was not analyzed in the draft EIR. New information included in a Final EIR explaining why an impact is less than significant does not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5.
	The Final EIR removed western bumble bee from Impact BIO-21 because recent California Department of Fish and Wildlife publication shows the species' known range is outside of the study area. Similarly, CMP-29 was refined to restrict compensatory mitigation to mitigate for habitat for Crotch bumble bee. This revision does not trigger the need for recirculation because it does not introduce a new significant impact, cause a substantial increase in the severity of an environmental impact, or require additional mitigation measures to which DWR is unwilling to commit. Therefore, the information does not

Modification	Modification Consideration
	constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5.
Clarifications in Final EIR, Volume 1, Chapter 16, <i>Recreation</i> , regarding location of I-5 ponds in existing conditions and clarifying details regarding I-5 ponds in Impact REC-1 and Impact REC-2.	Information was previously included regarding the I-5 ponds in Chapter 16, <i>Recreation</i> . Clarifying and additional text regarding these areas as they relate to recreation and implementation of the Compensatory Management Plan was included in Final EIR, Volume 1, Chapter 16 in the impact analysis. This revision does not trigger the need for recirculation because it does not introduce a new significant impact, cause a substantial increase in the severity of an environmental impact, or require additional mitigation measures to which DWR is unwilling to commit. Therefore, the information does not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5.
Clarifications in Final EIR, Volume 1, Chapter 14, <i>Land Use</i> , regarding locations of existing easements.	Clarification was added to Final EIR, Volume 1, Chapter 14, <i>Land Use</i> , explaining that although the land use study area overlaps with conservation easements, this overlap is not an impact on land use and therefore is not addressed in the land use chapter. The impacts on the natural communities and species habitats within the study area, including within conservation easements, are quantified and analyzed in Final EIR, Volume 1, Chapter 13, <i>Terrestrial Biological Resources</i> . Therefore, the new information merely clarifies/amplifies the discussion in the Draft EIR and does not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5.
Refinements to air quality and greenhouse gas (GHG) modeling based on engineering clarifications (e.g., off-road equipment type and horsepower, duration of marine vessel use); to use newer versions of analysis models (e.g., CalEEMod version 2022.1.1.3, eGRID2021); and to more accurately capture project description components (e.g., barges), including clarifications regarding modeling results and analysis in Final EIR, Volume 1, Chapter 23, <i>Air Quality and Greenhouse Gases</i> , and accompanying appendices.	Refinements to air quality modeling and the resulting updates are provided in Final EIR, Volume 1, Chapter 23, <i>Air Quality and Greenhouse Gases</i> , and accompanying appendices. Where appropriate, specific modeling assumptions were updated to account for the most recent engineering data and ensure alignment of the air quality analysis with the project description contained in Final EIR, Volume 1, Chapter 3, <i>Description of the</i> <i>Proposed Project and Alternatives</i> . Analysis modeling was also updated to use newer versions of California Emissions Estimator Model (CalEEMod) and eGRID. While both of these models were updated after the close of the public comment period for the Draft EIR, DWR elected to revise the analysis in the Final EIR to confirm that use of the newer model versions would not change any of the impact conclusions reached in the Draft EIR. Additional targeted refinements were also made to the analysis in response to specific public comments, including corrected association of equipment emission factors by horsepower, accounting of transmission and distribution losses during construction, and expansion of DWR's commitment of engine electrification. The level of transparency and documentation provided by the Draft EIR and the Final EIR is equivalent to, and in some cases exceeds, what is often provided for CEQA documents where models such as

Modification	Modification Consideration
	CalEEMod are exclusively used to quantify emissions. As demonstrated throughout Chapter 23 and the supporting appendices of the Final EIR, and further detailed in Final EIR, Volume 2, Common Response 15, <i>Air Quality and Greenhouse Gases</i> , the refinements to air quality and greenhouse gas (GHG) modeling confirm previous conclusions and impact determinations presented in the Draft EIR, and thus does not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5. (See <i>San</i> <i>Francisco Baykeeper v. California State Lands Commission</i> (2015) 242 Cal.App.4th 202, 224- 225 [new modeling confirming earlier conclusion about effects of mining on Bay environment did not trigger recirculation]; <i>Beverly Hills Unified School Dist. v. Los Angeles</i> <i>County Metropolitan Transportation Commission</i> (2015) 241 Cal.App.4th 627, 660-666 [Final EIR containing substantial amounts of new information, including numerous new seismic studies did not trigger recirculation].]
Inclusion of clarifying information regarding pumping energy usage in Final EIR, Volume 1, Chapter 22, <i>Energy</i> .	Revisions have been made to some of the energy use data reported in Final EIR, Volume 1, Chapter 22, <i>Energy</i> , including energy required to construct and operate the Delta Conveyance Project. The revisions reflect the most recent estimates of equipment needed to construct the Delta Conveyance Project and resulting energy consumption and updates to the energy needed to operate the project. The revised information would not result in a change to the CEQA impact conclusions reported in Chapter 22. Therefore, the new information merely clarifies/amplifies the discussion in the Draft EIR and does not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5.
Clarifications in mitigation measures and environmental commitments/best management practices throughout the EIR, including Final EIR, Volume 1, Appendix 3B, <i>Environmental</i> <i>Commitments and Best Management Practices</i> , to provide more clarity regarding the activities, location, timing, roles, or responsibilities, based on technical review.	As described in Final EIR, Volume 2, Common Response 1, <i>CEQA Process, General Approach</i> <i>to Analysis, and Other Environmental Review Issues</i> , DWR has refined some mitigation measures to clarify the mechanisms for and timing of implementation of environmental protections, including refinements in Appendix 3F, <i>Compensatory Mitigation plan for</i> <i>Special-Status Species and Aquatic Resources.</i> These refinements to mitigation measures would not cause any new significant environmental impact or substantially increase the severity of a previously disclosed environmental impact. All refinements to mitigation have been included to further enhance or improve environmental protections. Refinements made to environmental commitments were for permit consistency or to address public comments. These refinements included adding refueling specification (Environmental Commitments EC-2 and EC-3); requiring that the tops and bottoms of spoils disposal areas be rounded and slope faces contoured (Environmental Commitment EC-4a); further specifying erosion control materials (Environmental Commitment EC-4a); reinforcing state priorities for zero-emission equipment, providing further detail on diesel equipment, and limiting the age of marine vessels used for intake construction (Environmental

Modification	Modification Consideration
	Commitments EC-7, EC-8, and EC-10); removing reference to studying on-site concrete batching since this analysis was already performed and the project has been designed to maximize use of on-site batch plants (Environmental Commitment EC-13); and adding further specificity to construction BMPs for biological resources (Environmental Commitment EC-14). As with mitigation measures, all refinements have been included to further enhance or improve environmental protections and would not cause new significant environmental impacts or substantially increase the severity of a previously disclosed environmental impact. Changes to, or addition of, mitigation measures that do not increase the severity of the environmental impacts disclosed in the draft EIR do not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5. ( <i>Yerba Buena Neighborhood Consortium, LLC v. Regents of Univ. of</i> <i>California</i> (2023) 95 Cal. App. 5th 779, 808.)
Compensatory mitigation refinements in Final EIR, Volume 1, Appendix 3F, <i>Compensatory Mitigation</i> <i>Plan for Special-Status Species and Aquatic</i> <i>Resources</i> , and throughout the EIR as appropriate; Refinements to design commitments and guidelines for special-status plants California tiger salamander, tricolored blackbird, Swainson's hawk, and the addition of design commitments for Crotch bumble bee.	Final EIR, Volume 2, Common Response 11, <i>Terrestrial Biological Resources and Compensatory Mitigation Plan</i> , describes the revisions that have been made to the CMP and associated resource-related modifications. As discussed in Final EIR, Volume 2, Common Response 11, in the section titled <i>Revisions to the Compensatory Mitigation Plan</i> , these revisions do not result in a change to any impact conclusions or require additional mitigation measures to which DWR is unwilling to commit. For terrestrial biological resources, no changes to an CEQA impact determination or mitigation measure are necessary because the CMP revisions either add specificity to an existing measure, provide additional mitigation for a species beyond what is required to reach a determination of a less-than-significant impact, or are located within areas that have already been identified
Additional refinements to the CMP include the inclusion of mitigation measure ratios, the 10% stay-ahead commitment to mitigation; clarifications that mitigation sites will be designed, managed, and maintained to provide habitat requirements for a diversity of targeted wildlife species; removal of tidal habitat restoration on Bouldin Island; and clarification regarding potential locations of grassland mitigation, in addition to the initial mitigation sites and other	as compensatory mitigation locations, as described in the <i>Biological Resources</i> section of Final EIR, Volume 2, Common Response 11. For other resources, CMP revisions cause minimal change to a resource, do not affect a resource, or lessen the impact on a resource, as described in the <i>Other Resources</i> section of Final EIR, Volume 2, Common Response 11. The following changes to the CMP do not trigger recirculation because changes to, or addition of, mitigation measures that do not increase the severity of the environmental impacts disclosed in the draft EIR do not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5. ( <i>Yerba Buena Neighborhood Consortium, LLC v. Regents of Univ. of California</i> (2023) 95 Cal. App. 5th 779, 808.)
site protection instruments.	Refinements to Design Commitments and Guidelines

## **Refinements to Design Commitments and Guidelines**

Final EIR, Volume 2, Common Response 11 describes the following refinements that were

Modification	Modification Consideration
	made to the design commitments and guidelines in the CMP, Attachment 3F.1, and why they would not result in a change to any impact conclusions or require additional mitigation measures:
	CMP-0: <i>General Design Guidelines</i> was updated to provide more detail about DWR's commitment to compensate for habitat impacts that could occur as a result of the CMP; Additional detail was added to CMP-9 to better define suitable habitat and to clarify conditions of propagation of seed as mitigation for special-status plants; for California tiger salamander, CMP-13 was modified to require that mitigation habitat will be located adjacent or connected to occupied upland or aquatic habitat; for tricolored blackbird, CMP-22a was revised to define high and very high-quality breeding season foraging habitat and CMP-22b was modified to add compensation for impacts on breeding season foraging habitat at a ratio of 1:1, which would consist of the creation or enhancement of grassland, vernal pool complex, alkaline seasonal wetland, or suitable cultivated lands or the implementation of a site protection instrument; for Swainson's hawk, CMP-19 was modified to revise the land cover and crop types included in the very high, high, and moderate categories of foraging habitat value types. Furthermore, CMP-29 was added; it describes compensation design guidelines specific to Crotch bumble bee to further clarify how grassland mitigation will support Crotch bumble bee to compensate for potential impacts on the species and its habitat.
	Additional Revisions to the CMP
	As described in Final EIR, Volume 2, Common Response 11, the CMP was also updated to include the following revisions:
	The addition of mitigation ratios developed in consultation with CDFW and USFWS through the project permitting process; additional language to describe in more detail the sequence and timing of mitigation implementation including the 10% stay-ahead commitment for mitigation; further detail to clarify the commitment by DWR that compensation lands will be managed to provide habitat for multiple species and to clarify the conversions of existing land cover to created, enhanced, or unchanged habitat in comparison with existing land cover; the removal of tidal habitat restoration on Bouldin Island; and the potential for additional grassland mitigation to occur in construction areas identified as permanent (affected for greater than 1 year) impacts.

Modification	Modification Consideration
Clarifications regarding water transfers in Appendix 3H, <i>Non-Project Water Transfer Analysis</i> <i>for Delta Conveyance</i> , and additions to Final EIR, Volume 1, Chapter 9, <i>Water Quality</i> , and Chapter 12, Fish and Aquatic Resources, methods sections.	Appendix 3H, <i>Non-Project Water Transfer Analysis for Delta Conveyance</i> , was revised by adding clarifying text regarding how water transfers were considered in the EIR, which supports the statements in the EIR and responses to comments on the EIR. The additional text clarifies that the Delta Conveyance Project would not facilitate additional exports because the available capacity of the current SWP facilities to be used for transfers is not fully utilized. The explanation of carriage water in Appendix 3H was expanded to better clarify how carriage water requirements are determined as part of a water transfer. Both Final EIR, Volume 1, Chapter 9, <i>Water Quality</i> , and Final EIR, Volume 1, Chapter 12, <i>Fish and Aquatic Resources</i> , were updated to better explain how transfers through the Delta Conveyance Project facilities would not adversely affect water quality or aquatic resources or change the impact findings made for each resource topic. The added information does not result in a new or more severe impact requiring additional analysis, change impact conclusions presented in the Draft EIR, or require additional mitigation measures to which DWR is unwilling to commit. Therefore, the information does not constitute significant new information requiring recirculation under CEQA Guidelines Section 15088.5.

## **Statement of Overriding Considerations**

California Public Resources Code section 21081, subdivision (b), and State CEQA Guidelines section 15093 provide that, when a public agency decision-maker approves a project that may have potentially significant, unavoidable environmental impacts identified in an environmental impact report, the decision-making body must state in writing the reasons to support its action based on the completed EIR and/or other information in the administrative record.

Here, the Palmdale Water District is considering amendment to the Agreement for the Advance or Contribution of Money to the Department of Water Resources to fund data collection and field work investigations, including ground-disturbing geotechnical work, water quality and hydrogeologic investigations, agronomic testing, the installation of monitoring equipment, construction test projects, pre-construction design work, and engineering work (collectively, "**Pre-Construction Work**") that will guide the ultimate design, appropriate construction methods, and monitoring programs for the Department of Water Resources' ("**DWR**") Delta Conveyance Project ("**DCP**"). The DCP entails the development of new diversion and conveyance facilities in the Sacramento-San Joaquin Delta ("**Delta**") to safeguard the State Water Project ("**SWP**"), which provides water supplies to the Palmdale Water District. The Palmdale Water District is not considering approval of the DCP at this time, nor is the Palmdale Water District committing to a future approval of the DCP by approving the Pre-Construction Work.

DWR prepared and certified an Environmental Impact Report ("**EIR**") (State Clearinghouse Number 2020010227) that analyzed the potential environmental impacts of the DCP, inclusive of potential impacts associated with the Pre-Construction Work. The EIR concluded that the DCP, inclusive of the Pre-Construction Work, may have significant and unavoidable impacts on the environment, and these impacts are listed below and prefaced by their identification number from the EIR:

- Impact AG-1: Convert a Substantial Amount of Prime Farmland, Unique Farmland, Farmland of Local Importance, or Farmland of Statewide Importance as a Result of Construction of Water Conveyance Facilities
- Impact AG-2: Convert a Substantial Amount of Land Subject to Williamson Act Contract or under Contract in Farmland Security Zones to a Nonagricultural Use as a Result of Construction of Water Conveyance Facilities
- Impact AES-1: Substantially Degrade the Existing Visual Character or Quality of Public Views (from Publicly Accessible Vantage Points) of the Construction Sites and Visible Permanent Facilities and Their Surroundings in Nonurbanized Areas
- Impact AES-2: Substantially Damage Scenic Resources including, but Not Limited to, Trees, Rock Outcroppings, and Historic Buildings Visible from a State Scenic Highway
- Impact AES-3: Have Substantial Significant Impacts on Scenic Vistas
- Impact CUL-1: Impacts on Built-Environment Historical Resources Resulting

from Construction and Operation of the Project

- Impact CUL-2: Impacts on Unidentified and Unevaluated Built-Environment Historical Resources Resulting from Construction and Operation of the Project
- Impact CUL-3: Impacts on Identified Archaeological Resources Resulting from the Project
- Impact CUL-4: Impacts on Unidentified Archaeological Resources That May Be Encountered in the Course of the Project
- Impact CUL-5: Impacts on Buried Human Remains
- Impact TRANS-1: Increased Average VMT Per Construction Employee versus Regional Average
- Impact AQ-5: Result in Exposure of Sensitive Receptors to Substantial Localized Criteria Pollutant Emissions
- Impact NOI-1: Generate a Substantial Temporary or Permanent Increase in Ambient Noise Levels in the Vicinity of the Project in Excess of Standards Established in the Local General Plan or Noise Ordinance, or Applicable Standards of Other Agencies
- Impact PALEO-2: Cause Destruction of a Unique Paleontological Resource as a Result of Tunnel Construction and Ground Improvement
- Impact TCR-1: Impacts on the Delta Tribal Cultural Landscape Tribal Cultural Resource Resulting from Construction, Operations, and Maintenance of the Project Alternatives
- Impact TCR-2: Impacts on Individual Tribal Cultural Resources Resulting from Construction, Operations, and Maintenance of the Project Alternatives

In the judgment of the Board of Directors, each benefit of the Pre-Construction Work, as set forth below, outweighs – both individually and collectively – each of these potentially significant and unavoidable impacts for the reasons set forth below.

1. The Pre-Construction Work is necessary for the safe and efficient design of the DCP. The information collected from and generated by the Pre-Construction Work would be used to develop the DCP safely, efficiently, and in manner that minimizes impacts to the environment. For example, the information collected would be used to develop, among other things, detailed design of the DCP's structure and bridge foundations, new or modified levee cross sections, and ground improvement methodology. Moreover, information from the Pre-Construction Work would determine selection of tunnel boring machine methods, dewatering methods and quantities, below-grade construction methods (such as at the shafts and the pumping plant), need for impact pile driving, and methods to reduce ground settlement risk at all construction sites and along the tunnel alignment. The information would also be used to determine the specific depths and widths of groundwater cutoff walls to be installed at select construction sites. Additionally, soil samples obtained during soil borings would be analyzed to determine the structural capabilities of the soil to construct tunnel shaft pads and levee improvements, among other things. Soil and water quality tests would also be conducted to determine the potential for the presence of high concentrations of metals, organic materials, or hazardous materials that would require specific

treatment and/or disposal methods. Thus, the Pre-Construction Work would generate information necessary to guide any construction of the DCP in a manner that would minimize its potential environmental impacts and most efficiently achieve the DCP's objectives.

2. The DCP, which cannot be developed without the Pre-Construction Work, would restore and protect the reliability of SWP Water Deliveries South of the **Delta**. The primary purpose of the SWP is to convey water to local and regional water suppliers, including the Palmdale Water District, across California that, in turn, supply end users engaged in the beneficial uses of that water. Protection of the SWP is thus important to the Palmdale Water District. The Pre-Construction Work will help ensure that the DCP, if constructed, will help protect SWP water deliveries to the Palmdale Water District by addressing seismic risks. Notably, the current SWP system relies heavily on natural channels within the Delta to convey water and is extremely vulnerable to seismic events because most land in the central Delta has subsided well below sea level. If levees fail because of a seismic event, seawater intrusion from the western Delta could create salinity conditions that could require ceasing diversions from the SWP's current point of diversion in the south Delta. The capability of the DCP to continue operations would improve the ability of SWP Delta facilities to function after a seismic event by operating diversion facilities north of existing SWP facilities. The operations of the DCP would allow continued water supply diversions should south Delta export facilities become inoperable.

The DCP cannot proceed without the Pre-Construction Work, and the DCP would allow continued water deliveries to the Palmdale Water District and operational flexibility in the event of a catastrophic levee failure from seismic activity that could temporarily disrupt water supply or affect water quality.

3. The DCP, which cannot be developed without the Pre-Construction Work, would restore and protect the reliability of SWP Water Deliveries South of the Delta by addressing reasonably foreseeable consequences of climate change and extreme weather events. The DCP is part of the State of California's strategy to adapt the SWP water supply to climate change. As described in the Final EIR certified for the DCP, Volume 1, Chapter 30, Climate Change, projected future conditions under climate change, such as higher average temperature and more extreme variability in annual precipitation patterns, is anticipated to further diminish overall water supply and reliability of water delivery to the Palmdale Water District. Climate change is already taking a toll on California's water supplies in the form of more frequent and more severe droughts. A warmer atmosphere would modify precipitation and runoff patterns and affect extreme hydrologic events like floods and droughts. It is anticipated that droughts would increase in severity and duration, resulting in periods of critical dryness, further reducing Delta inflows during these dry periods. At the same time, associated increases in the frequency and severity of flashy storms in the cool season could increase high-flow events and flood risk in the Delta. These trends point to the need for alternate methods of water diversion and conveyance to effectively respond to changing water flow regimes under future climate change. In this context, the Palmdale Water District considers capture and conveyance in the Delta as important potential adaptations in protecting the SWP from future climatic change and mitigating system losses due to changing precipitation patterns and seasonal runoff. Having alternative points of diversion in the north Delta would increase resiliency in managing combined effects of sea level rise, including potential impacts on Delta morphology, and changes to timing and quantity of seasonal runoff. As water demand and supply challenges continue to increase, the DCP is designed to enhance resilience to climate change impacts and ensure

that safe and reliable water deliveries to Palmdale Water District continue far into the future (California Department of Water Resources 2023b).

- 4. The DCP, which cannot be developed without the Pre-Construction Work, would restore and protect the reliability of State Water Project Water Deliveries South of the Delta by addressing sea level rise. The DCP would protect the Palmdale Water District SWP water supplies by facilitating adaption to sea level rise and potential changes in hydrologic conditions associated with climate change. As described in Final EIR, Volume 1, Appendix 6A, *Water Supply 2040 Analysis*, the DCP would improve SWP water supply reliability under current and future conditions, including extreme high sea level rise. As the Palmdale Water District relies on SWP water supply, the Pre-Construction Work, and the DCP that it would enable, would provide significant benefits to the Palmdale Water District.
- 5. The Pre-Construction Work is necessary to obtain a more accurate cost estimate in relation to prudent financial planning and decision making of the Palmdale Water District. The ultimate financial costs of the DCP continue to be refined as further feasibility, planning, and design information is obtained. Until more information is known regarding the precise construction techniques, unique localized conditions that may increase or decrease construction costs, and potential schedule for any future construction, the financial cost of the DCP will continue to evolve. The Palmdale Water District wishes to further confirm the ultimate DCP costs, in order to allow for better disclosure to its ratepayers and in relation to prudent financial planning and decision making. The Pre-Construction Work is necessary to achieve those ends.

Through this Statement of Overriding Considerations, and based on the substantial evidence in the administrative record, the Board of Directors has weighed the Pre-Construction Work's benefits against its environmental impacts and finds that the Pre-Construction Work's potentially significant and unavoidable environmental impacts are "acceptable" in light of the environmental, economic, legal, social, technological, and/or other considerations set forth herein, and that each benefit of the Pre-Construction Work outweighs, both individually and collectively, the potentially significant and unavoidable environmental impacts.