

# Addendum 2

## North Delta Flood Control and Ecosystem Restoration Project

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EIR SCH#2003012112

September 27, 2018 FINAL

### **Lead Agency**

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## 1 EXECUTIVE SUMMARY

The California Department of Water Resources has prepared this Addendum to the 2010 North Delta Flood Control and Ecosystem Restoration Project (North Delta Project) Final Environmental Impact Report (North Delta FEIR; SCH#2003012112). The North Delta Final EIR (NDFEIR) evaluated the impacts and mitigation measures associated with the North Delta Project, which included a preferred alternative comprised of two discrete elements: the McCormack Williamson Tract (MWT) and Grizzly Slough Projects.

The Grizzly Slough Project (Project) proposes to restore floodplain wetland and riparian habitat along the lower Cosumnes River by reintroducing tidal exchange and seasonal flooding (through levee breaching) and restoring native vegetation at the 465-acre site referred to as Grizzly Slough. Overall, the project seeks to reduce flood risk and provide net habitat improvements to benefit native fish and wildlife in the region.

The Grizzly Slough Project Element has been revised from the plan proposed as part of Alternative 1A, the preferred alternative, in the North Delta Final EIR. The primary project design changes include the elimination of one of the breaches proposed for Grizzly Slough (along Bear Slough) and a significant reduction in grading, because borrow from the Grizzly Slough site will not be utilized to construct the proposed MWT project tower and re-slope levees.

This Addendum provides a detailed assessment of the Grizzly Slough project plan compared to the project plan as described in the NDFEIR (Alternative 1A) and an evaluation of the proposed change in the project with respect to project impacts and mitigation measures. This assessment concludes that the proposed changes would not result in any new potentially significant impacts, nor would any of the impacts identified in the North Delta EIR be substantially intensified because of the proposed project revisions. No new or substantially changed mitigation measures would be required beyond those identified in the NDFEIR. The revised Grizzly Slough project would have no environmental impacts in addition to those described in the NDFEIR regarding air quality, transportation, geomorphology and hydrology, land use, aesthetics, noise, biological resources, cultural resources, and cumulative impacts.

Based on the analysis in this Addendum, no Supplemental or Subsequent EIR is required to the NDFEIR because: 1) no substantial changes in the project relevant to environmental concerns have occurred, 2) no new significant impacts would result from the proposed project changes, 3) no substantial changes to environmental circumstances have occurred since the NDFEIR was certified, and 4) because no new information relevant to environmental impacts has come to light that would indicate the potential for new significant impacts not discussed in the NDFEIR.

## 2 INTRODUCTION

### 2.1 Background

A Final Environmental Impact Report (FEIR) for the North Delta Flood Control and Ecosystem Restoration Project (North Delta Project) was prepared by the California Department of Water Resources in accordance with the California Environmental Quality Act (CEQA), and was certified in November 2010 (NDFEIR 2010). The North Delta FEIR (NDFEIR) evaluated the impacts and mitigation measures associated with the North Delta Project, which included two elements as part of its preferred alternative (Alternative 1A): the McCormack Williamson Tract (MWT) and Grizzly Slough Projects. The Grizzly Slough element of the North Delta Project is to implement flood control improvements in a manner that benefits aquatic and terrestrial habitats, species and ecological processes. The proposed Grizzly Slough Project will:

- recreate a frequently flooded riparian woodland and tidal wetlands to provide habitat for native fish and wildlife
- reconnect sloughs to the floodplain to restore natural hydrologic and geomorphic processes

This addendum addresses the proposed Grizzly Slough project, which was revised since the North Delta EIR was certified in 2010, and potential changes in impacts of project elements. Previously, Grizzly Slough was designed to have a north and a south breach of the surrounding agricultural levees; however, the south levee breach has been eliminated from the design as it was determined that it did not improve the hydrologic function of the site. The McCormack-Williamson Tract project previously planned significant grading of the Grizzly Slough site to provide a source of borrow. However, the need of an external fill source has been eliminated in the revised MWT design, so the revised Grizzly Slough project includes a balanced cut-and-fill design on the site.

In summary, these changes result in the following differences between the original EIR and the revised Grizzly Slough project design:

- no removal of 650,000 cubic feet of dirt and transport to MWT;
- reduced impacts on wetlands and special status species;
- a smaller area for restoration activities with a smaller grading footprint;
- preservation of lower third of site in agriculture;
- much less construction-related impacts on agriculture, traffic, air quality, noise, and biological resources;
- reduced impacts to known existing cultural resource sites; and
- elimination of each project element's dependence on the other project element (MWT on Grizzly Slough and conversely Grizzly Slough on MWT).

As stated in the original EIR, proposed restoration activities include: clearing and grubbing of vegetation, grading and excavation of existing lands/substrate, breaching of an existing levee, construction of a new setback levee, direct and indirect hydromodification (to create floodplains and floodplain habitats), habitat enhancement (contouring, weeding, seeding, planting, and temporary irrigation), and more. These activities are part of the revised plan, but reduced in scope.

## 2.2 CEQA Guidelines for Preparing an Addendum

Prior to approval of subsequent actions that constitute a “project” under CEQA, the Lead Agency is required to determine whether the environmental effects of such actions are within the scope of the project covered by the EIR, and whether additional environmental analysis is required. State CEQA Guidelines Section 15164(a) and 15162 identify the decision-making process the Lead Agency should use to determine the type of CEQA document appropriate for a modification to the NDFEIR.

State CEQA Guidelines Section 15164(a) specifies that the lead agency shall prepare an Addendum to a previously certified EIR if some changes or additions are necessary, but none of the conditions described in Section 15162 calling for preparation of a subsequent EIR have occurred. According to Section 15162, a subsequent EIR shall not be prepared for the Project unless the Lead Agency determines, based on substantial evidence in light of the whole record, one or more of the following conditions are met:

- Substantial changes are proposed to the Project which will require major revisions to the EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;
- Substantial changes occur with respect to the circumstances under which the Project is undertaken which will require major revisions to the EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or
- 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 as complete, shows any of the following:
  - The Project will have one or more significant effects not discussed in the EIR;
  - Significant impacts previously examined in the EIR will be substantially more severe than shown in that EIR;
  - Mitigation measures or project alternatives previously found not to be feasible would in fact be feasible, and would substantially reduce one or more significant impacts on the environment, but the Lead Agency declined to adopt the mitigation measure or alternative; or
  - Mitigation measures or project alternatives which are considerably different from those analyzed in the EIR would substantially reduce one or more significant impacts on the environment, but the Lead Agency declined to adopt the mitigation measure or alternative.

## 3 PROPOSED REFINEMENTS TO THE GRIZZLY SLOUGH PROJECT

The NDFEIR preferred alternative, Alternative 1-A: Fluvial Process Optimization (Figure 1), introduced an extensive list of construction components, including excavating and restoring Grizzly Slough Property. Table 3-1 summarizes and compares the components as proposed in the NDFEIR and the refined components based on improved design (Figure 2).

This Grizzly Slough element of the alternative included the following components:

- Two levee breaches would be created, one in the northernmost tip of the Grizzly Slough property adjacent to CDFW mitigation wetlands, and the other would be created on the eastern edge of the property, on the western bank of the Bear Slough levee just north of New Hope Bridge.
- A shallow starter channel would be excavated across the southeast portion of the site from Bear Slough to Grizzly Slough, with the option of excavating a varied-width swale.
- Optional components included created a low levee paralleling New Hope Road, an outlet for the toe drain running parallel to the Grizzly Slough levee.

Through the addendum process and final designing of the North Delta projects, the Grizzly Slough Project has been altered. The proposed modified project now includes the following elements:

- Creating a permanent breach in the levee on the north side of the site to allow natural flooding from Grizzly Slough.
- Grading a channel network from the breach to improve flow exchange, increase habitat diversity, and ensure complete drainage to avoid fish stranding.
- Constructing a new setback levee along New Hope Road to maintain existing levels of flood protection
- Install one-directional flow culverts in the new levee near the southwest end to improve drainage to Grizzly Slough.
- Create an agricultural zone that sets aside approximately 157 acres along the southern portion of the site for agriculture to benefit wildlife and provide income for long-term management.
- Implement a revegetation plan to jumpstart recruitment of native riparian species

**Table 3-1. A Comparison of Grizzly Slough Construction Components**

| Components  | NDFEIR Reference            | Original Project   | Refinement for Grizzly Slough Project  |
|---|-----------------------------|--|--|
| Excavate (and Restore) Grizzly Slough Property            | DWR NDFEIR 2010, page 2-21. | One foot of the 458-acre Grizzly Slough site would be uniformly excavated to provide 648,000 cubic yards of borrow to the MWT project. | The 458-acre Grizzly Slough site will not be utilized for borrow for Phase A construction as proposed in the NDFEIR. The GS area is currently utilized for mitigation (65 acres), houses a 0.65-acre cultural resource site, and contains a volunteer cottonwood riparian forest. The revised GS project design works around these features. |
| Create breaches located on both Grizzly and Bear Sloughs. | DWR NDFEIR 2010, page 2-24  | Two 60-foot breaches would be created along the northeast and northwest levees adjacent to Bear and Grizzly Sloughs, respectively.     | Under the proposed modified project, the only breach in the levee would occur on Grizzly Slough. It would be approximately 50 feet wide, and excavated to an elevation that would allow tidal exchange.  |

|  |                                   |   |   |
|--|-----------------------------------|---|---|
| <p>Create a starter channel, with the option of a varied-width swale.</p>              | <p>DWR NDFEIR 2010, page 2-24</p> | <p>The most extensive excavation scenario would include excavation of an approximately 200- to 900- foot varied-width swale to increase the inundated area and to provide 286,000 cubic yards of borrow.</p>  | <p>The proposed modified project calls for the grading of small channels from the breach to improve flow exchange, increase habitat diversity, and ensure complete drainage to avoid fish stranding. The restoration area is proposed to provide up to 140,000 cubic yards of borrow that can be utilized to build the levee along New Hope Road.</p> |
| <p>Create a low levee parallel to New Hope Road.</p>                                   | <p>DWR NDFEIR 2010, page 2-25</p> | <p>One-way or manually operated gate or culvert structures may be constructed in the levee to maintain natural hydrology and to ensure that flooding potential south of New Hope Road does not increase. A low levee would be proposed in final design if needed to mitigate flooding of the roadway.</p> | <p>The proposed modified project also calls for the construction of a new levee along New Hope Road. One-way culvert structures will be constructed in the levee to ensure that flooding potential south of New Hope Road does not increase.</p>  |
| <p>Create an outlet to the toe drain running parallel to the Grizzly Slough levee.</p> | <p>DWR NDFEIR 2010, page 2-23</p> | <p>The outlet to the toe drain would be excavated on the north end of the channel in the direction of flow, and would help decrease the risk of fish-stranding.</p>   | <p>The proposed modified project will include this feature if it is necessary to decrease the risk of fish-stranding.</p>   |
| <p>Maintain access to privately owned parcel landlocked within the property</p>        | <p>DWR NDFEIR 2010, page 2-23</p> | <p>Provisions to maintain access to the privately-owned parcel would be included in final design.</p>   | <p>Provisions to maintain access to the privately-owned parcel are included in final design.</p>  |
| <p>Restoration plan and agricultural area.</p>   | <p>DWR NDFEIR 2010, page 2-23</p> | <p>Proposed vague concepts for restoring the site which emphasized natural recruitment and possible plantings on higher elevations.</p>   | <p>The proposed modified project creates an agricultural zone that sets aside approximately 157 acres along the southern portion of the site for agriculture to benefit wildlife and provide income for long-term management.</p>   |

## **4 ENVIRONMENTAL CHECKLIST FOR SUPPLEMENTAL ENVIRONMENTAL REVIEW**

This section describes the methods utilized to evaluate the proposed refinements to the components under the NDFEIR Grizzly Slough Project. The Environmental Checklist identifies the issues as they were addressed in the NDFEIR 2010 Appendix B and D that are also relevant to the Grizzly Slough Project. The checklist (Table 4-1) provides an explanation of each environmental effect analyzed in the NDFEIR (e.g., land use, transportation/traffic, and air quality), and compares how the proposed refinements affect the previous findings of environmental effects.

### **4.1 Explanation of Checklist Evaluation Categories**

The checklist considers the full range of environmental issues subject to analysis under CEQA (in rows), and then poses a series of questions (in columns) aimed at identifying the degree to which the issue was considered in the NDFEIR, and whether DWR is aware of any new information of substantial importance relative to the environmental issue. The questions posed in each column are described below.

#### **4.1.1 Where was the impact analyzed in the NDFEIR?**

Column C provides a cross-reference to the portions of the NDFEIR where information and analyses may be found relative to the environmental issue listed under each topic.

#### **4.1.2 Do proposed changes require major revisions to NDFEIR?**

In accordance with Section 15162(a)(1) of the State CEQA Guidelines, Column D indicates whether the proposed refinement to the project would involve new significant environmental impacts or a substantial increase in the severity of previously identified significant impacts that, in turn, would require major revisions of the NDFEIR. A “Yes” response would require preparation of an additional environmental analysis (a supplemental or subsequent EIR).

#### **4.1.3 Do new circumstances require major revisions to NDFEIR?**

In accordance with Section 15162(a)(2) of the State CEQA Guidelines, Column D also indicates whether changes to the circumstances under which the project is undertaken have occurred that would involve new significant environmental impacts or a substantial increase in the severity of previously identified significant impacts that, in turn, would require major revisions of the NDFEIR. A “Yes” response would require preparation of an additional environmental analysis (a supplemental or subsequent EIR).

#### **4.1.4 Is there any new information that shows new impacts or substantially more severe impacts?**

In accordance with Sections 15162(a)(3)(A) and 15162(a)(3)(B) of the State CEQA Guidelines, Column E indicates whether 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 NDFEIR was certified as complete, shows additional or substantially more severe significant impacts not discussed in the NDFEIR. Specifically, if the new information shows that (A) the project would have one or more significant impacts not discussed in the prior environmental documents, or (B) significant impacts previously examined would be substantially more severe than shown in the prior NDFEIR, then the question would be answered “Yes,” requiring preparation of a subsequent or supplemental EIR. However, if the additional analysis completed as part of this Addendum finds that the conclusions of the NDFEIR remain the same and no new significant impacts are identified, or identified environmental impacts are not found to be substantially more severe, then the question would be answered “No,” and no

supplemental or subsequent EIR is required, making this Addendum the proper CEQA documentation for the proposed MWT project refinements.

#### **4.1.5 Are there previously infeasible or new mitigation measures to address impacts that would not be implemented?**

In accordance with Sections 15162(a)(3)(C) and 15162(a)(3)(D) of the State CEQA Guidelines, Column F indicates whether 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 NDFEIR was certified as complete, shows that mitigation measures or alternatives in the NDFEIR would now be feasible or identifies new mitigation measures or alternatives not in the NDFEIR that would reduce significant impacts.

Specifically, if the new information shows that (A) mitigation measures or alternatives previously found not to be feasible would in fact be feasible, and would substantially reduce one or more significant impacts of the project, but DWR declines to adopt the mitigation measure or alternative or (B) mitigation measures or alternatives which are considerably different from those analyzed in the NDFEIR would substantially reduce one or more significant impacts on the environment, but DWR declines to adopt the mitigation measure or alternative, then the question would be answered “Yes,” requiring preparation of a subsequent or supplemental EIR. However, if the additional analysis completed as part of this Addendum finds that the mitigation measures and alternatives of the NDFEIR remain the same, or additional mitigation measures or alternatives are available and either would be adopted by DWR or would not be necessary, then the question would be answered “No” and no supplemental or subsequent EIR is required, making this Addendum the proper environmental documentation for the proposed DWR project refinements. If “NA” is indicated, this Addendum concludes that the impact would not occur with this project, and therefore, no mitigation measures are needed.

**Table 4-1. Environmental Checklist**

| A                                  | B  | C  | D   | E  | F  | G  |
|------------------------------------|--|--|---|--|--|--|
| No.                                | Environmental Effects<br>(see NDFEIR, Exhibit B)                           | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation<br>(See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D)   |
| Flood Control and Levee Stability: |  |  |   |  |  |  |
| 1                                  | Impact FC-1: Raise Flood Elevations and Increase the Frequency of Flooding | ES 20  | No  | No   | No   | In the NDFEIR, impacts were deemed less than significant. Under the revised project, impacts would remain less than significant. No mitigation would be required, as long as the project retains the features that minimize impacts through implementation.  |
| 2                                  | Impact FC-2: Increase the Degree or Quantity of Seepage                    | ES-20  | No  | No   | No   | Mitigation Measure FC-1 (Develop a Seepage-Monitoring Program) was focused on the MWT project area in areas where hydrology and geomorphology was modified. Levees in the Grizzly Slough area do not currently have seepage problems. Opening up Grizzly Slough to more frequent inundation may raise the groundwater level, and thus create a flow gradient toward adjacent islands/tracts, causing more seepage there. However, the properties downstream of Grizzly Slough along the Cosumnes River are floodplain restoration projects, so the impact is beneficial. |
| 3                                  | Impact FC-3: Increase the Degree of Quantity of Levee Settlement           | ES-20  | No  | No   | No   | In the NDFEIR, impacts were deemed less than significant. Under the revised project, impacts would remain less than significant. No mitigation would be required.  |
| 4                                  | Impact FC-4: Increase the Degree or Quantity of Wind Erosion               | ES-20  | No  | No   | No   | In the NDFEIR, impacts were deemed less than significant. Under the revised project, impacts would remain less than significant. No mitigation would be required.  |

| A                                     | B  | C  | D   | E  | F  | G   |
|---------------------------------------|--|--|---|--|--|---|
| No.                                   | Environmental Effects (see NDFEIR, Exhibit B)  | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D) |
| 5                                     | Impact FC-5: Increase the Degree or Quantity of Scour  | ES-20  | No  | No   | No   | In the NDFEIR, impacts were deemed less than significant. Under the revised project, impacts would remain less than significant. No mitigation is required.       |
| 6                                     | Impact FC-6: Increase the Degree or Quantity of Subsidence   | ES-20  | No  | No   | No   | In the NDFEIR, impacts were deemed less than significant. Under the revised project, impacts would remain less than significant. No mitigation would be required. |
| 7                                     | Impact FC-7: Decrease Levee Inspection and Maintenance   | ES-20  | No  | No   | No   | In the NDFEIR, impacts were deemed to be none. Under the revised project, impacts would remain less than significant. No mitigation would be required.            |
| 8                                     | Impact FC-8: Decrease in Levee Stability from Proposed Construction Activities                         | ES-21  | No  | No   | No   | In the NDFEIR, impacts were deemed less than significant. Under the revised project, impacts would remain less than significant. No mitigation would be required. |
| 9                                     | Impact FC-9: Decrease in Levee Stability from Non-Motorized Boating Activities                         | ES-21  | No  | No   | No   | In the NDFEIR, impacts were deemed less than significant. Under the revised project, impacts would remain less than significant. No mitigation would be required. |
| Geomorphology and Sediment Transport: |  |  |   |  |  |   |
| 10                                    | Impact GEOMORPH-1: Temporary Increase in Sediment Accumulation and Scouring during Levee Modifications | ES 21  | No  | No   | No   | In the NDFEIR, impacts were deemed less than significant. Under the revised project, impacts would remain less than significant. No mitigation would be required. |

| A   | B   | C  | D   | E  | F  | G  |
|-----|---|--|---|--|--|--|
| No. | Environmental Effects (see NDFEIR, Exhibit B)   | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D)  |
| 11  | Impact GEOMORPH-2: Increase in Sediment Accumulation as a Result of Levee Modifications                           | ES 21  | No  | No   | No   | In the NDFEIR, impacts were deemed less than significant. Under the revised project, impacts would remain less than significant. No mitigation would be required.  |
| 12  | Impact GEOMORPH-3: Increase in Sediment Accumulation on Land as a Result of Detention Basin Construction          | ES-21  | No  | No   | No   | In the NDFEIR, impacts were deemed beneficial. Under the revised project, impacts would remain beneficial. No mitigation would be required.  |
| 13  | Impact GEOMORPH-4: Increase in Scouring on Levees and in Channels as a Result of Levee Modifications              | ES-21  | No  | No   | No   | In the NDFEIR, impacts were deemed less than significant. Under the revised project, impacts would remain less than significant. No mitigation would be required.  |
| 14  | Impact GEOMORPH-5a through -5i: Increase in Scouring on Land as a Result of Detention Basin Construction          | ES-22  | No  | No   | No   | In the NDFEIR, impacts were deemed less than significant. Under the revised project, impacts would remain less than significant. No mitigation would be required. Furthermore, measures do not apply to the Grizzly Slough project, as a detention basin is not being constructed as part of the project design. |
| 15  | Impact GEOMORPH-6: Increase in Debris Accumulation Resulting in an Increase in Sediment Accumulation and Scouring | ES-22  | No  | No   | No   | In the NDFEIR, impacts were deemed beneficial. Under the revised project, impacts would remain beneficial. No mitigation would be required.  |

| A              | B  | C  | D   | E  | F  | G   |
|----------------|--|--|---|--|--|---|
| No.            | Environmental Effects (see NDFEIR, Exhibit B)  | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D) |
| 16             | Impact GEOMORPH-7: Scour and Deposition Associated with Excavation and Restoration of the Grizzly Slough Property      | ES-23  | No  | No   | No   | In the NDFEIR, impacts were deemed beneficial. Under the revised project, impacts would remain beneficial. No mitigation would be required.                       |
| 17             | Impact GEOMORPH-8: Increase in Scouring on South Fork Mokelumne River and Associated Increase in Deposition Downstream | ES-23  | No  | No   | No   | In the NDFEIR, impacts were deemed less than significant. Under the revised project, impacts would remain less than significant. No mitigation would be required. |
| Water Quality: |  |  |   |  |  |   |
| 18             | Impact WQ1: Release of Pollutants during Construction and Dredging   | ES 23  | No  | No   | No   | In the NDFEIR, impacts were deemed less than significant. Under the revised project, impacts would remain less than significant. No mitigation would be required. |
| 19             | Impact WQ-2: Release of Organic Carbon   | ES-23  | No  | No   | No   | In the NDFEIR, impacts were deemed less than significant. Under the revised project, impacts would remain less than significant. No mitigation would be required. |

| A                            | B   | C  | D   | E  | F  | G   |
|------------------------------|---|--|---|--|--|---|
| No.                          | Environmental Effects (see NDFEIR, Exhibit B)   | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D)   |
| 20                           | Impact WQ-3: Release of Methylmercury   | ES-23  | No  | No   | No   | The NDFEIR found that effects to water quality would be less than significant with mitigation for impact WQ-3. Mitigation Measure WQ-1 will be implemented, because the project includes flooding of Grizzly Slough, where mercury has been detected in the soil in isolated locations (ESA 2015). The impact would remain the same under the revised project, and MM WQ-3 would be used to evaluate impacts and mitigate to less than significant. |
| Water Supply and Management: |   |  |   |  |  |   |
| 21                           | Impact WSM-1: Changes in Water Uses as a Result of Project  | ES 23  | No  | No   | No   | In the NDFEIR, impacts were deemed less than significant. Under the revised project, impacts would remain less than significant. No mitigation would be required.   |
| Groundwater:                 |   |  |   |  |  |   |
| 22                           | Impact GW-1: Potential Increase in Groundwater as a Result of Conversion of Farmland to Ecosystem Restoration                   | ES 23  | No  | No   | No   | In the NDFEIR, impacts were deemed beneficial. Under the revised project, impacts would remain beneficial. No mitigation would be required.   |
| 23                           | Impact GW-2: Potential Groundwater Seepage to Adjacent Islands as a Result of Frequent Inundation of McCormack-Williamson Tract | ES-23  | No  | No   | No   | The NDFEIR found that impacts would be less than significant with mitigation. The revised Grizzly Slough project does not change this finding. However, Mitigation Measure GW-1 (Control Seepage) does not apply, as the proposed Grizzly Slough project does not expose surrounding areas to seepage, but instead allows the site to drain more effectively.   |

| A  | B   | C  | D   | E  | F  | G   |
|--|---|--|---|--|--|---|
| No.  | Environmental Effects (see NDFEIR, Exhibit B)   | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D)   |
| Geology, Seismicity, Soils, and Mineral Resources: |   |  |   |  |  |   |
| 24   | Impact GEO-1: Increase the Potential for Structural Damage and Injury Caused by Fault Rupture   | ES 24  | No  | No   | No   | In the NDFEIR, impacts were deemed less than significant. Under the revised project, impacts would remain less than significant. No mitigation would be required.   |
| 25   | Impact GEO-2: Increase the Potential for Structural Damage and Injury Caused by Ground Shaking  | ES 24  | No  | No   | No   | In the NDFEIR, impacts were deemed less than significant. Under the revised project, impacts would remain less than significant. No mitigation would be required.   |
| 26   | Impact GEO-3: Increase the Potential for Structural Damage and Injury as a Result of Development on Materials Subject to Liquefaction                         | ES 24  | No  | No   | No   | The NDFEIR found that impacts would be less than significant with implementation of Mitigation Measure GEO-1 (Conduct Geotechnical Evaluation for Sediments Susceptible to Liquefaction, and Design Project to Accommodate Effects of Liquefaction). The revised Grizzly Slough project does not change this finding. With implementation of Mitigation Measure GEO-1, impacts would be reduced to less than significant. GEO-1 has been implemented. |
| 27   | Impact GEO-4: Increase the Potential for Accelerated Runoff, Erosion, and Sedimentation as a Result of Grading, Excavation, and Levee Construction Activities | ES-24  | No  | No   | No   | In the NDFEIR, impacts were deemed less than significant. Under the revised project, impacts would remain less than significant. No mitigation would be required.   |

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| No. | Environmental Effects (see NDFEIR, Exhibit B)  | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D)   |
| 28  | Impact GEO-5: Increase the Potential for Structural Damage and Injury as a Result of Development on Expansive Soils  | ES-24  | No  | No   | No   | The NDFEIR found that impacts would be less than significant with implementation of Mitigation Measure GEO-2 (Conduct Geotechnical Evaluation for Expansive Soils, and Design Project to Accommodate Effects of Expansive Soils.). The revised Grizzly Slough project does not change this finding. With implementation of Mitigation Measure GEO-2, impacts would be reduced to less than significant. GEO-2 has been implemented. |
| 29  | Impact GEO-6: Increase Potential for Land Subsidence as a Result of Placement of Degraded Levee Material or Additional Soil for Levee Construction on Peat Soils | ES-24  | No  | No   | No   | In the NDFEIR, impacts were deemed less than significant. Under the revised project, impacts would remain less than significant. No mitigation would be required.   |
| 30  | Impact GEO-7: Decrease Rate of Land Subsidence as a Result of Abandonment of Farming Activities  | ES-25  | No  | No   | No   | In the NDFEIR, impacts were deemed beneficial. Under the revised project, impacts would remain beneficial. No mitigation would be required. Furthermore, this measure is not affected by Grizzly Slough activities, as the area is predominantly mineral soils)   |
| 31  | Impact GEO-8: Loss of Availability of a Known Mineral Resources or of a Locally Important Mineral Resources  | ES-25  | No  | No   | No   | In the NDFEIR, no impacts were anticipated as a result of the project. Under the revised project, impacts would remain at a no impact level. No mitigation would be required.   |

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| No.                            | Environmental Effects (see NDFEIR, Exhibit B)  | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D)   |
| Transportation and Navigation: |  |  |   |  |  |   |
| 32                             | Impact TN-1: Temporary Increase in Traffic Delays, Increase in Road Hazards, and Changes in Circulation Patterns | ES 25  | No  | No   | No   | In the NDFEIR, impacts were deemed less than significant. Under the revised project, impacts would remain less than significant. No mitigation would be required. The reduction in grading and elimination of borrow transfer to MWT will reduce traffic-related impacts. |
| 33                             | Impact TN-2: Deterioration of Roadway Surface  | ES 25  | No  | No   | No   | In the NDFEIR, impacts were deemed less than significant. Under the revised project, impacts would remain less than significant. No mitigation would be required. The reduction in grading and elimination of borrow transfer to MWT will reduce traffic-related impacts. |
| 34                             | Impact TN-3: Construction of New or Improvement of Existing Roads  | ES 25  | No  | No   | No   | In the NDFEIR, impacts were deemed beneficial. Under the revised project, impacts would remain beneficial. No mitigation would be required. The reduction in grading and elimination of borrow transfer to MWT will reduce traffic-related impacts.                       |
| 35                             | Impact TN-4: Changes in Circulation and Access   | ES 25  | No  | No   | No   | In the NDFEIR, impacts were deemed less than significant. Under the revised project, impacts would remain less than significant. No mitigation would be required. The reduction in grading and elimination of borrow transfer to MWT will reduce traffic-related impacts. |
| 36                             | Impact TN-5: Changes in Navigation   | ES 25  | No  | No   | No   | In the NDFEIR, impacts were deemed less than significant. Under the revised project, impacts would remain less than significant. No mitigation would be required. The reduction in grading and elimination of borrow transfer to MWT will reduce traffic-related impacts. |

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| No.          | Environmental Effects (see NDFEIR, Exhibit B)   | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D)  |
| Air Quality: |   |  |   |  |  |  |
| 37           | Impact AIR-1: Generation of Pollutant Emissions in Excess of SMAQMD and SJVAPCD Threshold Levels                | ES 25  | No  | No   | No   | The NDFEIR found that impact AIR-1 would be significant and unavoidable for the North Delta Project. The unavoidable impact was determined to be acceptable in light of the project benefits through analysis in the cumulative impacts and statement of overriding considerations. The new borrow site does not change this finding; however, the revised Grizzly Slough project design will reduce air quality impacts. Mitigation measures to reduce greenhouse gas emissions (1a through 1i) and AIR-1 through AIR-6 will be implemented for the Grizzly Slough Project. |
| 38           | Impact AIR-2: Exposure of Sensitive Receptors to Elevated Levels of Diesel Exhaust and an Increased Health Risk | ES-26  | No  | No   | No   | The NDFEIR found that impact AIR-2 would be less than significant with the implementation of mitigation. The new borrow site does not change this finding; however, the revised Grizzly Slough project design will reduce air quality impacts. Mitigation measure AIR-2 will be implemented for the Grizzly Slough Project to reduce impacts to less than significant levels.  |
| 39           | Impact AIR-3: Generation of Pollutant Emissions in Excess of <i>de minimis</i> Threshold Levels                 | ES-26  | No  | No   | No   | The NDFEIR found that impact AIR-1 would be significant and unavoidable for the North Delta Project. The unavoidable impact was determined to be acceptable in light of the project benefits through analysis in the cumulative impacts and statement of overriding considerations. The new borrow site does not change this finding; however, the revised Grizzly Slough project design would reduce air quality impacts. Mitigation measures to  |

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| No.    | Environmental Effects (see NDFEIR, Exhibit B)  | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D)   |
|        |  |  |   |  |  | reduce greenhouse gas emissions (1a through 1i) and AIR-1 through AIR-6 will be implemented for the Grizzly Slough Project. AIR-7 <sup>b</sup> applies to the Grizzly Slough project; however, only consultation with SMAQMD, and not SJVAPCD, is required for this project.  |
| Noise: |  |  |   |  |  |   |
| 40     | Impact NZ-1: Exposure of Noise-Sensitive Land Uses to Noise from General Construction Activities | ES 27  | No  | No   | No   | The NDFEIR found that noise impacts would be less than significant with mitigation and the revised Grizzly Slough project design does not change this finding. Mitigation Measure NZ-1 will be implemented to reduce impacts to less than significant. The reduction in grading at the Grizzly Slough site and elimination of borrow transfer to MWT will reduce noise impacts. |
| 41     | Impact NZ-2: Exposure of Noise-Sensitive Land Uses to Noise from Material Hauling Operations     | ES 27  | No  | No   | No   | The NDFEIR found that noise impacts would be less than significant with mitigation and the revised Grizzly Slough project design does not change this finding. Mitigation Measure NZ-1 will be implemented to reduce impacts to less than significant. The reduction in grading at the Grizzly Slough site and elimination of borrow transfer to MWT will reduce noise impacts. |
| 42     | Impact NZ-3: Exposure of Noise-Sensitive Land Uses to Noise from Modified Pump Operations        | ES 27  | No  | No   | No   | In the NDFEIR, impacts were deemed less than significant. Under the revised project, impacts would remain less than significant. No mitigation would be required.   |

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| No.                      | Environmental Effects (see NDFEIR, Exhibit B)   | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D)   |
| 43                       | Impact NZ-4: Exposure of Sensitive Land Uses to Groundborne Vibrations from Construction Activity | ES 27  | No  | No   | No   | In the NDFEIR, impacts were deemed less than significant. Under the revised project, impacts would remain less than significant. No mitigation would be required.   |
| Vegetation and Wetlands: |   |  |   |  |  |   |
| 44                       | Impact VEG-1: Loss or Disturbance of Valley/Foothill Riparian Land Cover Types                    | ES 28  | No  | No   | No   | The NDFEIR found that impact VEG-1 would be less than significant with mitigation and the revised Grizzly Slough project design does not change this finding. Mitigation Measures VEG-1 and VEG-2 will be implemented to reduce impacts to less than significant levels. The results of any pertinent surveys will be summarized as part of the reporting requirement in the NDFEIR MMRP <sup>c</sup> . |
| 45                       | Impact VEG-2: Loss or Disturbance of Nontidal Freshwater Emergent Wetland Land Cover Type         | ES 28  | No  | No   | No   | The NDFEIR found that impact VEG-2 would be less than significant with mitigation and the revised Grizzly Slough project design does not change this finding. Mitigation Measures VEG-2 and VEG-3 will be implemented to reduce impacts to less than significant levels. The results of any pertinent surveys will be summarized as part of the reporting requirement in the NDFEIR MMRP <sup>c</sup> . |
| 46                       | Impact VEG-3: Loss or Disturbance of Tidal Perennial Aquatic Land Cover Types                     | ES 28  | No  | No   | No   | The NDFEIR found that impact VEG-3 would be less than significant with mitigation and the revised Grizzly Slough project design does not change this finding. Mitigation Measures VEG-2 and VEG-4 will be implemented to reduce impacts to less than significant levels. The results of any   |

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| No. | Environmental Effects (see NDFEIR, Exhibit B)  | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D)   |
|     |  |  |   |  |  | pertinent surveys will be summarized as part of the reporting requirement in the NDFEIR MMRP <sup>c</sup> .   |
| 47  | Impact VEG-4: Loss or Disturbance of Tidal Freshwater Emergent Wetland Land Cover Type | ES 28  | No  | No   | No   | The NDFEIR found that impact VEG-4 would be less than significant with mitigation and the revised Grizzly Slough project design does not change this finding. Mitigation Measures VEG-2 and VEG-5 will be implemented to reduce impacts to less than significant levels. The results of any pertinent surveys will be summarized as part of the reporting requirement in the NDFEIR MMRP <sup>c</sup> .         |
| 48  | Impact VEG-5: Establishment of Invasive Nonnative Plants                               | ES 28  | No  | No   | No   | The NDFEIR found that impact VEG-5 would be less than significant with mitigation and the revised Grizzly Slough project design does not change this finding. Mitigation Measure VEG-6 will be implemented to reduce impacts to less than significant levels. The results of any pertinent surveys will be summarized as part of the reporting requirement in the NDFEIR MMRP <sup>c</sup> .                    |
| 49  | Impact VEG-6: Loss or Disturbance of Special-Status Species                            | ES 28  | No  | No   | No   | The NDFEIR found that impact VEG-6 would be less than significant with mitigation and the revised Grizzly Slough project design does not change this finding. Mitigation Measures VEG-2, VEG-7, and VEG-8 will be implemented to reduce impacts to less than significant levels. The results of any pertinent surveys will be summarized as part of the reporting requirement in the NDFEIR MMRP <sup>c</sup> . |
| 50  | Impact VEG-7: Loss or Disturbance of Perennial Grassland                               | ES 29  | No  | No   | No   | The NDFEIR found that impact VEG-7 would be less than significant with mitigation and the revised Grizzly Slough project design does not change this finding. Mitigation Measures VEG-2 and VEG-9 will be implemented to reduce impacts to less than significant levels. The results of any pertinent surveys will be summarized as part of the reporting requirement in the NDFEIR MMRP <sup>c</sup> .         |

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| No.                     | Environmental Effects (see NDFEIR, Exhibit B)   | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D)  |
| Fisheries and Aquatics: |   |  |   |  |  |  |
| 51                      | Impact Fish-1: Temporary Disturbance and Possible Mortality of Fish, including Special-Status Species, as a Result of Construction Activities                     | ES 29  | No  | No   | No   | The NDFEIR found that impact Fish-1 would be less than significant for the Grizzly Slough project. The revised Grizzly Slough Project does not change this finding. No mitigation would be required.                     |
| 52                      | Impact Fish-2: Temporary Disturbance and Possible Mortality of Fish, including Special-Status Species, as a Result of Accidental Spills of Construction Materials | ES 29  | No  | No   | No   | The NDFEIR found that impact Fish-2 would be less than significant for the Grizzly Slough project. The revised Grizzly Slough Project does not change this finding. No mitigation would be required.                     |
| 53                      | Impact Fish-3: Loss of Fish, including Special-Status Species, from Direct Injury as a Result of Construction   | ES 29  | No  | No   | No   | The NDFEIR found that impact Fish-3 would be less than significant for the Grizzly Slough project. The revised Grizzly Slough Project does not change this finding. No mitigation would be required.                     |
| 54                      | Impact Fish-4: Loss of Shaded Riverine Aquatic Habitat as a Result of Construction  | ES 29  | No  | No   | No   | The NDFEIR found that impact Fish-4 would be less than significant with the implementation of Mitigation Measures Fish-1 and Fish-2 for Alternative 1A. The revised Grizzly Slough Project does not change this finding. |

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| No. | Environmental Effects (see NDFEIR, Exhibit B)   | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D)   |
| 55  | Impact Fish-5: Increased Availability and Quality of Spawning Habitat for Splittail, Delta Smelt, and Other Floodplain-Spawning Species, as a Result of Project Operation | ES 29  | No  | No   | No   | The NDFEIR found that impact Fish-5 would be beneficial for Alternative 1A. The revised Grizzly Slough Project does not change this finding.  |
| 56  | Impact Fish-6: Increased Availability and Quality of Rearing Habitat for Juvenile Chinook Salmon, Splittail, and Delta Smelt, as a Result of Project Operation            | ES 30  | No  | No   | No   | The NDFEIR found that impact Fish-6 would be beneficial for Alternative 1A. The revised Grizzly Slough Project does not change this finding.  |
| 57  | Impact Fish-7: Loss of Fish from Stranding as a Result of Project Operation   | ES-30  | No  | No   | No   | The NDFEIR found that impact Fish-7 would be less than significant with the implementation of Mitigation Measures Fish-3 for Alternative 1A. The revised Grizzly Slough Project does not change this finding. |
| 58  | Impact Fish-8: Potential for Loss of Native Fish from Predation as a Result of Project Operation  | ES-30  | No  | No   | No   | The NDFEIR found that impact Fish-8 would be less than significant with the implementation of Mitigation Measures Fish-4 for Alternative 1A. The revised Grizzly Slough Project does not change this finding. |
| 59  | Impact Fish-9: Reduced Pumping and Agricultural Discharges  | ES-31  | No  | No   | No   | The NDFEIR found that impact Fish-9 would be beneficial for Alternative 1A. The revised Grizzly Slough Project does not change this finding.  |

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| No.       | Environmental Effects (see NDFEIR, Exhibit B)   | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D)   |
| Wildlife: |   |  |   |  |  |   |
| 60        | Impact WILD-1: Loss of Riparian-Associated Wildlife Habitat                               | ES 32  | No  | No   | No   | The NDFEIR found that impact WILD-1 would be less than significant with the implementation of Mitigation Measures WILD-1, WILD-2, and WILD-3. The revised Grizzly Slough Project not change this finding. Mitigation Measures WILD-1 through WILD-3 will be implemented <sup>e</sup> . Results of any pertinent surveys and compliance monitoring required by other permits for the Grizzly Slough Project will be summarized as part of the reporting requirement of the NDFEIR MMRP.      |
| 61        | Impact WILD-2: Loss of Tidal Freshwater Emergent Wetland-Associated Wildlife Habitat      | ES 32  | No  | No   | No   | The NDFEIR found that impact WILD-2 would be less than significant with the implementation of Mitigation Measures WILD-2, WILD-3, and WILD-4. The revised Grizzly Slough Project does not change this finding. Mitigation Measures WILD-2 through WILD-4 will be implemented <sup>e</sup> . Results of any pertinent surveys and compliance monitoring required by other permits for the Grizzly Slough Project will be summarized as part of the reporting requirement of the NDFEIR MMRP. |
| 62        | Impact WILD-3: Loss or Disturbance of Tidal Perennial Aquatic-Associated Wildlife Habitat | ES 32  | No  | No   | No   | The NDFEIR found that impact WILD-3 would be less than significant with the implementation of Mitigation Measures WILD-3 and WILD-5. The revised Grizzly Slough Project does not change this finding. Mitigation Measures WILD-3 and WILD-5 will be implemented <sup>e</sup> . Results of any pertinent surveys and compliance monitoring required by other   |

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| No. | Environmental Effects (see NDFEIR, Exhibit B)  | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D)   |
|     |  |  |   |  |  | permits for the Grizzly Slough Project will be summarized as part of the reporting requirement of the NDFEIR MMRP.  |
| 63  | Impact WILD-4: Loss of Disturbance of Nontidal Freshwater Emergent Wetland-Associated Wildlife Habitat | ES 32  | No  | No   | No   | The NDFEIR found that impact WILD-4 would be less than significant with the implementation of Mitigation Measures WILD-2, WILD-3 and WILD-6. The revised Grizzly Slough Project does not change this finding. Mitigation Measures WILD-2, WILD-3 and WILD-6 will be implemented <sup>e</sup> . Results of any pertinent surveys and compliance monitoring required by other permits for the Grizzly Slough Project will be summarized as part of the reporting requirement of the NDFEIR MMRP.  |
| 64  | Impact WILD-5: Loss of Agricultural Land and Ruderal-Associated Wildlife Habitat                       | ES 32  | No  | No   | No   | The NDFEIR found that impact WILD-5 would be less than significant. The positive effects of flood improvements that minimize damage to adjacent agricultural sites, were viewed as balancing any agricultural impacts due to habitat conversion. In addition, WILD-2 and WILD-3 will be implemented to minimize any direct impacts to wildlife. The revised Grizzly Slough Project does not change this finding. Mitigation Measures WILD-2 and WILD-3 will be implemented <sup>e</sup> . Results of any pertinent surveys and compliance monitoring required by other permits for the Grizzly Slough Project will be summarized as part of the reporting requirement of the NDFEIR MMRP. |
| 65  | Impact WILD-6: Temporary Disturbance and Possible Mortality of Common Wildlife                         | ES 32  | No  | No   | No   | The NDFEIR found that impact WILD-6 would be less than significant and no mitigation would be required. The revised Grizzly Slough Project site does not change this finding.   |

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| No. | Environmental Effects (see NDFEIR, Exhibit B)  | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D)  |
|     | Species as a Result of Construction Activities   |  |   |  |  |  |
| 66  | Impact WILD-7: Potential Effects on Greater Sandhill Crane as a Result of Loss of Agricultural Lands | ES-33  | No  | No   | No   | The NDFEIR found that impact WILD-7 would be less than significant with the implementation of Mitigation Measures WILD-2, WILD-3 and WILD-7. The revised Grizzly Slough Project does not change this finding. Mitigation Measures WILD-2, WILD-3 and WILD-7 will be implemented <sup>e</sup> . Results of any pertinent surveys and compliance monitoring required by other permits for the Grizzly Slough Project will be summarized as part of the reporting requirement of the NDFEIR MMRP.                       |
| 67  | Impact WILD-8: Potential Effects on Valley Elderberry Longhorn Beetle                                | ES-33  | No  | No   | No   | The NDFEIR found that impact WILD-8 would be less than significant with the implementation of Mitigation Measures WILD-8, WILD-9 and WILD-10. The revised Grizzly Slough Project and the new borrow site does not change this finding. Mitigation Measures WILD-8 through WILD-10 will be implemented <sup>e</sup> . Results of any pertinent surveys and compliance monitoring required by other permits for the Grizzly Slough Project will be summarized as part of the reporting requirement of the NDFEIR MMRP. |
| 68  | Impact WILD-9: Potential Effects on Giant Garter Snake   | ES-33  | No  | No   | No   | The NDFEIR found that impact WILD-9 would be less than significant with the implementation of Mitigation Measures WILD-4, WILD-6, WILD-11 and WILD-12. The revised Grizzly Slough Project does not change this finding. Mitigation Measures WILD-4, WILD-6, WILD-11, and WILD-12 will be implemented <sup>e</sup> . Results of any pertinent surveys and compliance monitoring required by other permits for the   |

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| No. | Environmental Effects (see NDFEIR, Exhibit B)                                      | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D)   |
|     |  |  |   |  |  | Grizzly Slough Project will be summarized as part of the reporting requirement of the NDFEIR MMRP.  |
| 69  | Impact WILD-10: Loss or Disturbance of Swainson’s Hawk Nests or Foraging Habitat   | ES-33  | No  | No   | No   | The NDFEIR found that impact WILD-10 would be less than significant with the implementation of Mitigation Measures WILD-1, WILD-3, and WILD-13 through WILD-16. The revised Grizzly Slough Project does not change this finding. Mitigation Measures WILD-1, WILD-3, and WILD-13 through WILD-16 will be implemented <sup>e</sup> . Results of any pertinent surveys and compliance monitoring required by other permits for the Grizzly Slough Project will be summarized as part of the reporting requirement of the NDFEIR MMRP. |
| 70  | Impact WILD-11: Loss or Disturbance of Nesting or Wintering Western Burrowing Owls | ES-33  | No  | No   | No   | The NDFEIR found that impact WILD-11 would be less than significant with the implementation of Mitigation Measures WILD-2, WILD-3, and WILD-17 through WILD-21. The revised Grizzly Slough Project does not change this finding. Mitigation Measures WILD-2, WILD-3, and WILD-17 through WILD-21 will be implemented <sup>e</sup> . Results of any pertinent surveys and compliance monitoring required by other permits for the Grizzly Slough Project will be summarized as part of the reporting requirement of the NDFEIR MMRP. |
| 71  | Impact WILD-12: Loss or Disturbance of Raptor Nest Sites                           | ES-34  | No  | No   | No   | The NDFEIR found that impact WILD-12 would be less than significant with the implementation of Mitigation Measures WILD-1 through WILD-4, and WILD-6. The revised Grizzly Slough Project does not change this finding. Mitigation Measures WILD-1 through WILD-4, and WILD-6 will be implemented <sup>e</sup> . Results of any pertinent surveys and compliance monitoring required by other permits for the  |

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| No. | Environmental Effects (see NDFEIR, Exhibit B)  | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D)   |
|     |  |  |   |  |  | Grizzly Slough Project will be summarized as part of the reporting requirement of the NDFEIR MMRP.  |
| 72  | Impact WILD-13: Loss of Western Pond Turtle or Suitable Habitat                          | ES-34  | No  | No   | No   | The NDFEIR found that impact WILD-13 would be less than significant with the implementation of Mitigation Measures WILD-4 through WILD-6, and WILD-22. The revised Grizzly Slough Project does not change this finding. Mitigation Measures WILD-4 through WILD-6, and WILD-22 will be implemented <sup>e</sup> . Results of any pertinent surveys and compliance monitoring required by other permits for the Grizzly Slough Project will be summarized as part of the reporting requirement of the NDFEIR MMRP.                                 |
| 73  | Impact WILD-14: Loss of Tricolored Blackbird Nesting Habitat                             | ES-34  | No  | No   | No   | The NDFEIR found that impact WILD-14 would be less than significant with the implementation of Mitigation Measures WILD-1 through WILD-4, WILD-6, WILD-23 and WILD-24. The revised Grizzly Slough Project does not change this finding. Mitigation Measures WILD-1 through WILD-4, WILD-6, WILD-23 and WILD-24 will be implemented <sup>e</sup> . Results of any pertinent surveys and compliance monitoring required by other permits for the Grizzly Slough Project will be summarized as part of the reporting requirement of the NDFEIR MMRP. |
| 74  | Impact WILD-15: Loss or Disturbance of California Black Rail or Suitable Nesting Habitat | ES-35  | No  | No   | No   | The NDFEIR found that impact WILD-15 would be less than significant with the implementation of Mitigation Measures WILD-2 through WILD-4, WILD-6, WILD-25 and WILD-26. The revised Grizzly Slough Project does not change this finding. Mitigation Measures WILD-2 through WILD-4, WILD-6, WILD-25 and WILD-26 will be implemented <sup>e</sup> .   |

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| No. | Environmental Effects (see NDFEIR, Exhibit B)                       | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D)   |
|     |   |  |   |  |  | Results of any pertinent surveys and compliance monitoring required by other permits for the Grizzly Slough Project will be summarized as part of the reporting requirement of the NDFEIR MMRP.   |
| 75  | Impact WILD-16: Loss or Disturbance of Colonial Waterbird Rookeries | ES-36  | No  | No   | No   | The NDFEIR found that impact WILD-16 would be less than significant with the implementation of Mitigation Measures WILD-1 through WILD-3, and WILD 27 through WILD-30. The revised Grizzly Slough Project does not change this finding. Mitigation Measures WILD-1 through WILD-3, and WILD 27 through WILD-30 will be implemented <sup>e</sup> . Results of any pertinent surveys and compliance monitoring required by other permits for the Grizzly Slough Project will be summarized as part of the reporting requirement of the NDFEIR MMRP. |
| 76  | Impact WILD-17: Loss or Disturbance of Aleutian Canada Goose        | ES-36  | No  | No   | No   | The NDFEIR found that impact WILD-17 would be less than significant and no mitigation would be required. The revised Grizzly Slough Project does not change this finding.   |
| 77  | Impact WILD-18: Loss or Disturbance of Wintering Bald Eagle         | ES-36  | No  | No   | No   | The NDFEIR found that impact WILD-18 would be less than significant and no mitigation would be required. The revised Grizzly Slough Project does not change this finding.   |
| 78  | Impact WILD-19: Loss or Disturbance of Migratory Birds              | ES-36  | No  | No   | No   | The NDFEIR found that impact WILD-19 would be less than significant with the implementation of Mitigation Measures WILD-2 and WILD-3. The revised Grizzly Slough Project does not change this finding. Mitigation Measures WILD-2 and WILD-3 will be implemented <sup>e</sup> . Results of any pertinent surveys and compliance monitoring required by other permits for the Grizzly Slough Project will be summarized as part of the reporting requirement of the NDFEIR MMRP.   |

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| No.                                  | Environmental Effects (see NDFEIR, Exhibit B)  | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D)   |
| 79                                   | Impact WILD-20: Loss or Disturbance of Bats and Bat Habitat as a Result of Construction Activities | ES-36  | No  | No   | No   | The NDFEIR found that impact WILD-20 would be less than significant with the implementation of Mitigation Measures WILD-2, WILD-3 and WILD-23. The revised Grizzly Slough Project does not change this finding. Mitigation Measures WILD-2, WILD-3 and WILD-23 will be implemented <sup>e</sup> . Results of any pertinent surveys and compliance monitoring required by other permits for the Grizzly Slough Project will be summarized as part of the reporting requirement of the NDFEIR MMRP. |
| Land Use, Recreation, and Economics: |  |  |   |  |  |   |
| 80                                   | Impact LU-1: Permanent Loss of Farmland  | ES 37  | No  | No   | No   | The NDFEIR found that impacts to land use would be less than significant with mitigation and the revised Grizzly Slough project design does not change this finding. LU-1 will be implemented, as specified in the NDFEIR.  |
| 81                                   | Impact LU-2: Operations-Related Effects on Agricultural Production                                 | ES 37  | No  | No   | No   | The NDFEIR found that impact LU-2 would be less than significant and no mitigation would be required. The revised Grizzly Slough Project does not change this finding.  |
| 82                                   | Impact LU-3: Inconsistency with Agricultural Objectives of Local, Regional, and State Plans        | ES 37  | No  | No   | No   | The NDFEIR found that impact LU-3 would be less than significant and no mitigation would be required. The revised Grizzly Slough Project does not change this finding.  |

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| No. | Environmental Effects (see NDFEIR, Exhibit B)  | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D)       |
| 83  | Impact LU-4: Conflict with General Plan Designations and Zoning                              | ES 37  | No  | No   | No   | The NDFEIR found that impact LU-4 would be less than significant and no mitigation would be required. The revised Grizzly Slough Project does not change this finding.  |
| 84  | Impact REC-1: Temporary Disruption of Recreational Boating Activities                        | ES 37  | No  | No   | No   | The NDFEIR found that impact REC-1 would be less than significant and no mitigation would be required. The revised Grizzly Slough Project does not change this finding. |
| 85  | Impact REC-2: Temporary Disruption of Boating Activities during Dredging Operations          | ES 37  | No  | No   | No   | The NDFEIR found that impact REC-2 would be less than significant and no mitigation would be required. The revised Grizzly Slough Project does not change this finding. |
| 86  | Impact REC-3: Long-Term Increase in Recreational Boating Activities                          | ES 37  | No  | No   | No   | In the NDFEIR, impacts were deemed beneficial. Under the revised project, impacts would remain beneficial. No mitigation would be required.                             |
| 87  | Impact REC-4: Upgrade of Recreational Facilities at Delta Meadows Property                   | ES 37  | No  | No   | No   | In the NDFEIR, impacts were deemed beneficial. Under the revised project, impacts would remain beneficial. No mitigation would be required.                             |
| 88  | Impact REC-5: Increased Public Awareness of Recreational Activities and Public Access Points | ES 37  | No  | No   | No   | In the NDFEIR, impacts were deemed beneficial. Under the revised project, impacts would remain beneficial. No mitigation would be required.                             |

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| No.   | Environmental Effects (see NDFEIR, Exhibit B)                                | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D)       |
| Population, Housing, and Environmental Justice: |  |  |   |  |  |   |
| 89  | Impact POP-1: Displacement of Housing  | ES 38  | No  | No   | No   | The NDFEIR found that impact REC-2 would be less than significant and no mitigation would be required. The revised Grizzly Slough Project does not change this finding. |
| 90  | Impact POP-2: Displacement of People   | ES 38  | No  | No   | No   | The NDFEIR found that impact REC-2 would be less than significant and no mitigation would be required. The revised Grizzly Slough Project does not change this finding. |
| 91  | Impact POP-3: Disproportionate Impacts on Low-Income or Minority Populations | ES 38  | No  | No   | No   | The NDFEIR found that impact REC-2 would be less than significant and no mitigation would be required. The revised Grizzly Slough Project does not change this finding. |
| Utilities and Public Services:                  |  |  |   |  |  |   |
| 92  | Impact PUB-1: Increase in Use of Energy                                      | ES 38  | No  | No   | No   | None required. Impacts in the NDFEIR were deemed less than significant, and the revised project design does not change this finding.                                    |
| 93  | Impact PUB-2: Reduction in the Capacity of Local Solid Waste Landfills       | ES 38  | No  | No   | No   | None required. Impacts in the NDFEIR were deemed less than significant, and the revised project design does not change this finding.                                    |
| 94  | Impact PUB-3: Disruption of Utility Services                                 | ES-38  | No  | No   | No   | None required. Impacts in the NDFEIR were deemed less than significant, and the revised project design does not change this finding.                                    |
| 95  | Impact PUB-4: Increase in Emergency Service Response Times                   | ES-38  |   |  |  | None required. Impacts in the NDFEIR were deemed less than significant, and the revised project design does not change this finding.                                    |

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| No.                                      | Environmental Effects (see NDFEIR, Exhibit B)  | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D)  |
| Power Production and Energy:             |  |  |   |  |  |  |
| 96                                       | Impact PPE-1: Change in Power Consumption  | ES 38  | No  | No   | No   | None required. Impacts in the NDFEIR were deemed less than significant, and the revised project design does not change this finding.   |
| Visual Resources:                        |  |  |   |  |  |  |
| 97                                       | Impact VIS-1: Temporary Visual Change as a Result of Construction Activities                               | ES 38  | No  | No   | No   | None required. Impacts in the NDFEIR were deemed less than significant, and the revised project design does not change this finding.   |
| 98                                       | Impact VIS-2: Permanent Changes in Viewshed  | ES 38  | No  | No   | No   | None required. Impacts in the NDFEIR were deemed less than significant, and the revised project design does not change this finding.   |
| Public Health and Environmental Hazards: |  |  |   |  |  |  |
| 99                                       | Impact PH-1: Releases of Hazardous Materials during Construction   | ES 39  | No  | No   | No   | None required. Impacts in the NDFEIR were deemed less than significant, and the revised project design does not change this finding.   |
| 100                                      | Impact PH-2: Potential Exposure to Currently Unidentified Contaminated Waters or Soils during Construction | ES 39  | No  | No   | No   | The NDFEIR found that impact PH-2 would be less than significant with the implementation of Mitigation Measure PH-3. The revised Grizzly Slough project design does not change this finding. Mitigation measures PH-3 will be implemented. |

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| No.                 | Environmental Effects (see NDFEIR, Exhibit B)   | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D)   |
| 101                 | Impact PH-3: Increased Occurrence of Wildland Fires and Increased Emergency Response/Evacuation Times                 | ES 39  | No  | No   | No   | None required. Impacts in the NDFEIR were deemed less than significant, and the revised project design does not change this finding.  |
| 102                 | Impact PH-4: Exposure of People to Mosquitoes   | ES 39  | No  | No   | No   | The NDFEIR found that impact PH-2 would be less than significant with the implementation of Mitigation Measure PH-2 <sup>f</sup> . The revised Grizzly Slough project design does not change this finding. Mitigation Measure PH-2 will be implemented.   |
| Cultural Resources: |   |  |   |  |  |   |
| 103                 | Impact CR-1: Destruction of Archaeological Sites P-39-324, P-39-4419, and P-39-4420 as a Result of Ground Disturbance | ES 39  | No  | No   | No   | N/A. The NDFEIR found impact CR-1 to be significant or less than significant with the implementation of Mitigation Measure CR-1, dependent upon findings on a site-by-site basis. The revised project description does not change this finding. The Grizzly Slough project site is not located near these archaeological sites, so this impact and associated mitigation measures do not apply.   |
| 104                 | Impact CR-2: Destruction of Unevaluated Isolated Finds  | ES 40  | No  | No   | No   | The NDFEIR found impact CR-2 to be significant or less than significant with the implementation of Mitigation Measure CR-2, dependent upon findings on a site-by-site basis. The revised project description does not change this finding. A cultural resources study (ESA 2018) and geoarchaeological investigation of the new borrow site yielded no archaeological artifacts; therefore, consistent with measure CR-1 (Destruction of Archaeological Sites), DWR has |

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| No. | Environmental Effects (see NDFEIR, Exhibit B)   | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D)   |
|     |   |  |   |  |  | determined that the area proposed for restoration is not culturally significant and no further mitigation is required. As an added precaution, and in order to comply with CR-2 (Destruction of Unevaluated Isolated Finds), a cultural resources awareness training will be conducted.   |
| 105 | Impact CR-3: Destruction of Cultural Resources along Unexamined Portions of the Downstream Levees | ES 41  | No  | No   | No   | The NDFEIR found impact CR-3 to be significant to less than significant with the implementation of Mitigation Measure CR-3 for Alternative 1A. However, since the Grizzly Slough project is an isolated project with no effect on downstream levees, there will be no impact and the associated mitigation does not apply.  |
| 106 | Impact CR-4: Damage to or Destruction of Site P-34-39 as a Result of Soil Removal                 | ES 43  | No  | No   | No   | The NDFEIR found impact CR-4 to be no impact, less than significant or less than significant with the implementation of Mitigation Measure CR-1, dependent upon findings on a site-by-site basis. The revised project description does not change this finding. These sites have not been re-located since 1929. A cultural resources study and geoarchaeological investigation of the site yielded no archaeological artifacts; therefore, consistent with Mitigation Measure CR-1 (Destruction of Archaeological Sites), DWR has determined that the area proposed for restoration is not culturally significant and no further mitigation is required. |
| 107 | Impact CR-5: Damage to or Destruction of Cultural Resources in the Dixon Borrow Site              | ES 43  | No  | No   | No   | N/A. The NDFEIR found impact CR-5 to be significant to less than significant with the implementation of Mitigation Measure CR-3 for Alternative 1A. However, since the Grizzly Slough project is an isolated project with no effect on the Dixon Borrow Site, there will be no impact and the associated mitigation does not apply.   |

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| No. | Environmental Effects (see NDFEIR, Exhibit B)   | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D)  |
| 108 | Impact CR-6: Damage to or Destruction of Architectural Resources in the New Hope Borrow Site  | ES 43  | No  | No   | No   | N/A. The NDFEIR found impact CR-5 to be significant to less than significant with the implementation of Mitigation Measure CR-3 for Alternative 1A. However, since the Grizzly Slough project is an isolated project with no effect on the New Hope Borrow Site, there will be no impact and the associated mitigation does not apply.   |
| 109 | Impact CR-7: Damage to or Destruction of Archaeological Site P-34-36 as a Result of Soil Removal and Other Ground-Disturbing Activities | ES 43  | No  | No   | No   | The NDFEIR found impact CR-4 to be no impact, less than significant or less than significant with the implementation of Mitigation Measure CR-1, dependent upon findings on a site-by-site basis. The revised project description does not change this finding. These sites have not been re-located since 1929. A cultural resources study and geoaerchaeological investigation of the site yielded no archaeological artifacts; therefore, consistent with Mitigation Measure CR-1 (Destruction of Archaeological Sites), DWR has determined that the area proposed for restoration is not culturally significant and no further mitigation is required. |
| 110 | Impact CR-8: Damage to or Destruction of Archaeological Site P-34-37 as a Result of Grading   | ES 43  | No  | No   | No   | The NDFEIR found impact CR-4 to be significant to less than significant with the implementation of Mitigation Measure CR-4 for Alternative 1A. These sites have not been re-located since 1929. A cultural resources study and geoaerchaeological investigation of the site and area to be graded yielded no archaeological artifacts; therefore, consistent with Mitigation Measure CR-1 (Destruction of Archaeological Sites), DWR has determined that the area proposed for restoration is not culturally significant and no further mitigation is required.  |
| 111 | Impact CR-9:  | ES 44  | No  | No   | No   | The NDFEIR found impact CR-9 to be no impact with the implementation of Mitigation Measure CR-3, dependent   |

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| No. | Environmental Effects (see NDFEIR, Exhibit B)   | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D)  |
|     | Destruction of Architectural Resources along Unexamined Portions of the Grizzly and Bear Slough Levees  |  |   |  |  | upon findings on a site-by-site basis. A cultural resources study and geoarchaeological investigation of the levee site yielded no archaeological artifacts; therefore, consistent with Mitigation Measure CR-3, DWR has determined that the site is not culturally significant and no further mitigation is required.                           |
| 112 | Impact CR-10: Destruction of Submerged Cultural Resources as a Result of Channel Dredging               | ES 44  | No  | No   | No   | N/A. The NDFEIR found impact CR-10 to be no impact, less than significant or less than significant with the implementation of Mitigation Measure CR-3, dependent upon findings on a site-by-site basis. Channel dredging is not proposed as part of the Grizzly Slough project, so this impact and associated mitigation measure does not apply. |
| 113 | Impact CR-11: Destruction of Cultural Resources as a Result of Dredge Spoil Disposal                    | ES 44  | No  | No   | No   | N/A. The NDFEIR found impact CR-11 to be no impact, less than significant or less than significant with the implementation of Mitigation Measure CR-3, dependent upon findings on a site-by-site basis. Dredge soil disposal is not proposed as part of the Grizzly Slough project, so this impact and associated mitigation does not apply.     |
| 114 | Impact CR-12: Damage to or Destruction of Archaeological Site CA-Sac-76/H at the Delta Meadows Property | ES 44  | No  | No   | No   | N/A. The NDFEIR found impact CR-12 to be significant to less than significant with the implementation of Mitigation Measure CR-3 for Alternative 1A. However, since the Grizzly Slough project is an isolated project with no effect on the Delta Meadows Property, there will be no impact and the associated mitigation does not apply.        |
| 115 | Impact CR-13: Damage to or Destruction of Archaeological Sites CA-Sac-47 and P-34-102                   | ES 44  | No  | No   | No   | The NDFEIR found impact CR-13 to be no impact, less than significant or less than significant with the implementation of Mitigation Measure CR-3, dependent upon findings on a site-by-site basis. However, since the Grizzly Slough project is an isolated project with no effect on the Delta Meadows  |

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| No. | Environmental Effects (see NDFEIR, Exhibit B)  | Where was Impact Analyzed in the NDFEIR Exhibit A? | Do Proposed Changes or New Circumstances Require Major Revisions to NDFEIR? | Any New Information that shows New Impacts or Substantially More Severe Impacts? | Any Previously Infeasible or New Mitigation Measures to Address Impacts That Would not be Implemented? | Mitigation Measures that apply to the Grizzly Slough Restoration Project and Explanation (See NDFEIR, Exhibit A Table ES-3, page ES-20, Exhibit B, and Exhibit D)   |
|     |  |  |   |  |  | Property, there will be no impact and the associated mitigation does not apply.   |
| 116 | Impact CR-14: Damage to or Destruction of Architectural Resources in the Delta Meadows Property Area | ES 44  | No  | No   | No   | N/A. The NDFEIR found impact CR-12 to be significant to less than significant with the implementation of Mitigation Measure CR-3 for Alternative 1A. However, since the Grizzly Slough project is an isolated project with no effect on the Delta Meadows Property, there will be no impact and the associated mitigation does not apply. |

Notes:

<sup>a</sup> Mitigation measures GEO-1 and GEO-2 incorrectly appear under Geomorphology and Sediment Transport in Exhibit D. Consistent with Exhibits A and B, these measures pertain to analyses and findings on Geology, Seismicity, Soils, and Mineral Resources.

<sup>b</sup> Mitigation measure AIR-7 is missing from Exhibit D, but appears in ES-26 of Exhibit A.

<sup>c</sup> Mitigation measures VEG-4, VEG-5, and VEG-9 are missing from Exhibit D, but appear on pages ES-28 and ES-29 of Exhibit A.

<sup>d</sup> Mitigation measures Fish-4 through Fish-13 are missing from Exhibit D, but appear on pages ES-29 through ES-31 of Exhibit A. Fish-4 through Fish-13 do not apply to the Grizzly Slough Project, as they are focused on MWT, Staten Island and possible dredging sites.

<sup>e</sup> Mitigation measures WILD-4, WILD-5, and WILD-29 area missing from Exhibit D, but appear on pages ES-34 through ES-36 of Exhibit A.

<sup>f</sup> Mitigation measures PH-2 is missing from Exhibit D, but appear on pages ES-39 of Exhibit A.

## 4.2 Growth-Inducing and Cumulative Impacts

State CEQA guidelines Section 15126 requires an EIR to discuss how a proposed project, if implemented, may induce growth and the impacts of that induced growth. The NDEIR considered increases in direct and indirect employment during construction. The revised Grizzly Slough project— with its reduced level of grading, smaller restoration footprint and retention of agriculture land use— is expected to result in fewer temporary and permanent employment opportunities. The Project is part of the Cosumnes Preserve, surrounded by other wildlands and is expected to continue to be managed by Preserve staff after construction. Hydraulic modeling indicates that the Project does not provide any significant reduction in stage that would affect the 100-year floodplain, consistent with the EIR finding for Alternative 1A. In summary, these factors indicate that the Project is not expected to induce population growth.

State CEQA Guidelines Section 15130 describes elements required for an adequate discussion of significant cumulative impacts, including:

- an analysis of related future projects or planned development that would affect resources in the project area similar to those affected by the proposed project
- a summary of the expected environmental effects to be produced by those projects with specific reference to additional information stating where that information is available; and
- a reasonable analysis of the cumulative impacts of the relevant projects. An EIR shall examine reasonable, feasible option for mitigating and avoiding the project's contribution to any significant cumulative impacts.

The NDEIR, which addressed Grizzly Slough in the context of Alternative 1A concluded that there were no cumulatively considerable effects on public health and environmental hazards; power production and energy; utilities and public services; population, housing, and environmental justice; and transportation and navigation. Alternative 1A would contribute to cumulatively considerable effects on cultural resources; land use and agriculture; geomorphology and sediment transport; and geology, seismicity and soils. Mitigation measures listed in the respective sections of this EIR would reduce these impacts to a less-than-significant level. Significant impacts on air quality and noise (as a result of construction-related Project activities) would contribute to significant and unavoidable cumulatively considerable impacts, which are justified in Exhibit C: Statement of Overriding Considerations. The impacts associated with the revised Grizzly Slough project are expected to be considerably reduced and therefore reduce the need for mitigation. For example, known cultural resources were avoided in the reduced grading footprint and much of the agricultural area will remain intact. In general, any cumulatively considerable effects identified in the EIR have been reduced in scope.

The implementation of the Project is expected to provide positive, beneficial effects for water supply and quality, recreation, and ecosystem restoration improvements including riparian and floodplain, and threatened and endangered species because long term site specific restoration efforts increase habitat connectivity, decrease habitat fragmentation, and increase the amount of natural habitat in the region. Cumulatively, other ongoing and future habitat restoration projects would have beneficial effects by increasing the acreage of available riparian forest, floodplain connectivity, and increased juvenile Chinook salmon and steelhead rearing habitat in the region. These current and future projects, combined with recent past projects along the lower Cosumnes River contribute significantly to the benefit of sensitive and rare habitats and species.

### **4.3 Conclusion**

The result of this analysis demonstrates that the project design changes including the elimination of one of the breaches proposed for Grizzly Slough (along Bear Slough) and a significant reduction in grading, does not meet any of the criteria in Section 15162 of the State CEQA Guidelines for preparation of a subsequent EIR and does meet the criteria of 15164 of the State CEQA Guidelines for preparation of an EIR Addendum. A review of the analysis of cumulative effects in the NDFEIR (DWR 2010) also supports this finding. According to Sections 15164(e), a brief explanation of the decision not to prepare a subsequent EIR should be included in an addendum to the EIR, the lead agency's findings on the project, or elsewhere in the record. The NDFEIR (DWR 2010), supplemented by this Addendum, is complete, accurate, and adequate to meet the requirements of CEQA and the State CEQA Guidelines.

## 5 REFERENCES

California Department of Water Resources. 2010. North Delta Flood Control and Ecosystem Restoration Project Final Environmental Impact Report.

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## 6 FIGURES

Figure 6-1. Project Location

Figure 6-2. NDFEIR Excavation and Restoration of Grizzly Slough Property

Figure 6-3. Revised Restoration Plan



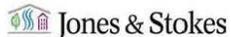
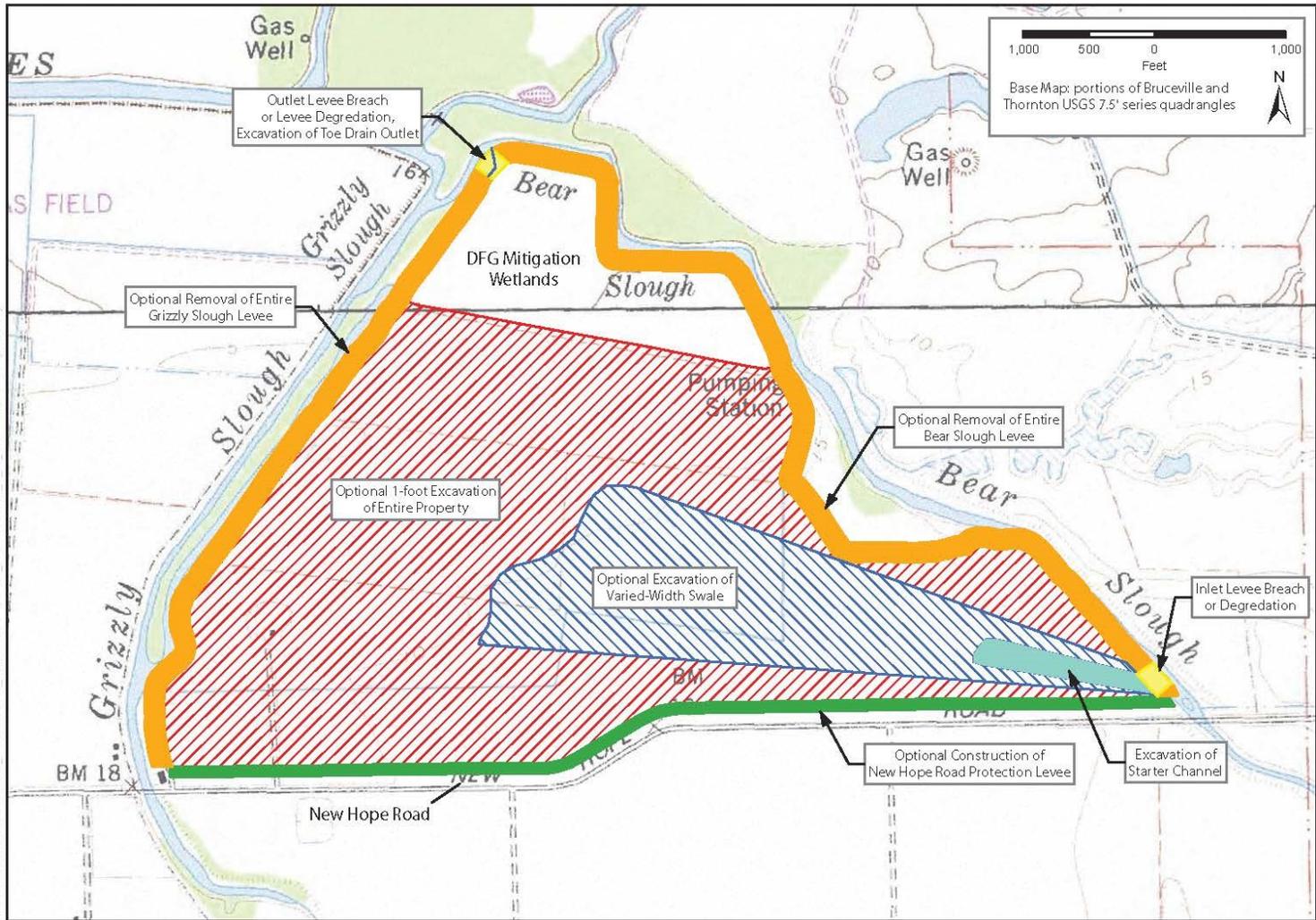
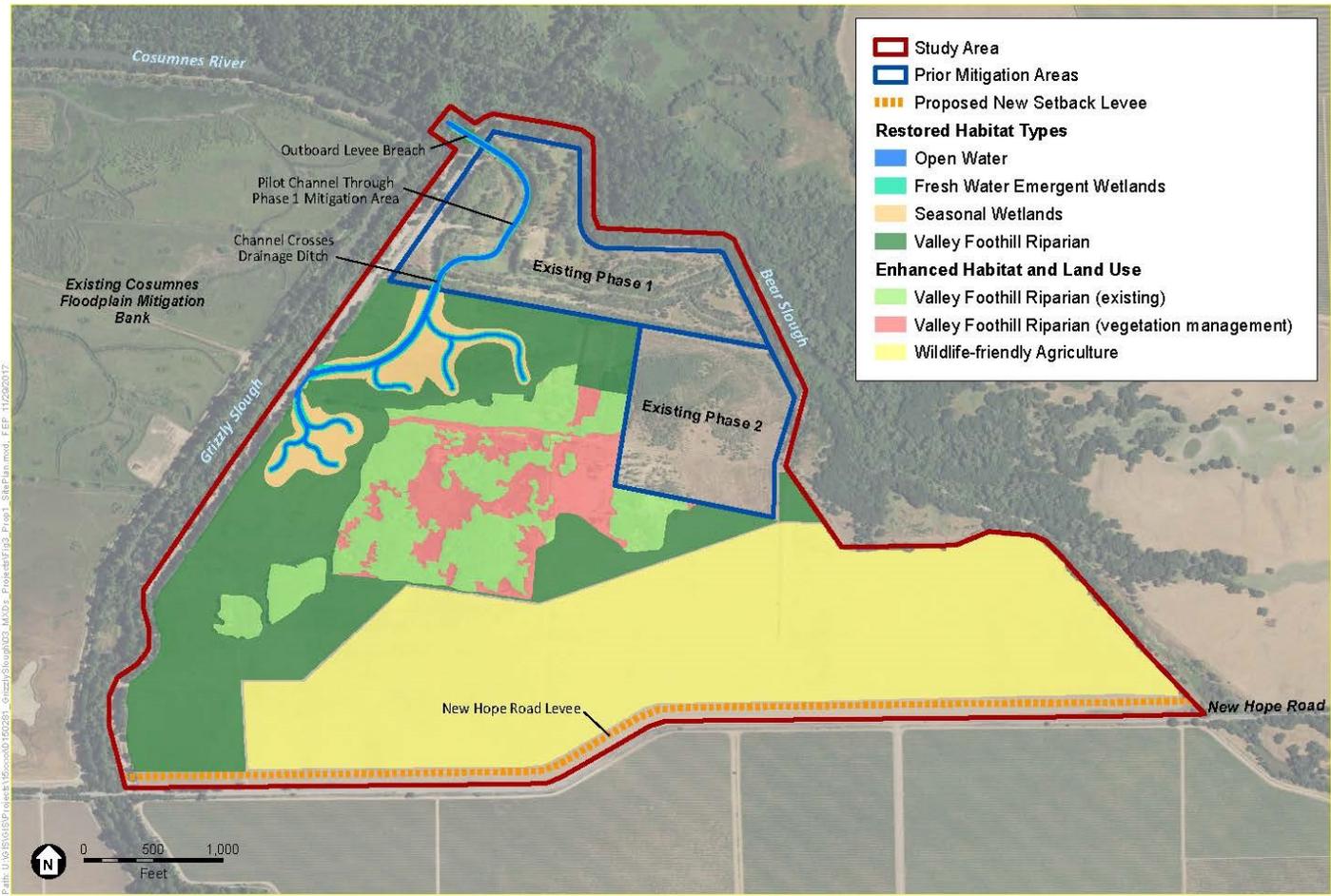


Figure 6-2  
NDFEIR Excavation and Restoration of Grizzly Slough Property



SOURCE: USDA 2014, ESA 2017

Grizzly Slough Floodplain Restoration

**Figure 6-3**  
Revised Restoration Plan

