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SECTION 1.0  INTRODUCTION

1.1  Purpose of Initial Study

The Orange County Water District, as Lead Agency, under the California Environmental Quality Act (CEQA is preparing an Environmental Impact Report (EIR) for the proposed Prado Basin Sediment Management Demonstration Project (Project).

This document is an Initial Study that evaluates the potential environmental impacts associated with the implementation of the Project. The Initial Study has been prepared in accordance with the CEQA, Public Resources Code Section 21000 et seq., State CEQA Guidelines, and the Orange County Water District CEQA Environmental Procedures.

Based on the environmental review contained in this Initial Study it has been determined that implementation of the Project could have the potential to result in significant impacts to the environment and preparation of an environmental impact report is required to comply with the California Environmental Quality Act. A preliminary evaluation of the Project and its associated impacts to the environment is presented in Sections 3 and 4 of this Initial Study.
SECTION 2.0 PROJECT DESCRIPTION

2.1 Background

Prado dam was constructed by the U.S. Army Corps of Engineers (Corps) in 1941 to control floods occurring in the Santa Ana River Watershed. The dam is located at the western end of Prado Basin near the Chino Hills. Prado Dam’s primary purpose and beneficial use is flood control and the secondary beneficial use is water conservation. Presently, OCWD has joint agreement with the Corps to store water behind Prado Dam for groundwater recharge purposes. Since commencement of operations at Prado Dam, the facility has acted as a sediment barrier restricting the amount of sediment transported to the lower Santa Ana River and the beaches near the outlet of the river. Over time the sediment has accumulated upstream of Prado Dam. The accumulation of sediment has reduced the amount of storage for water conservation. Since 1941, data suggests that at least 25,000 acre feet of storage have been lost due to sediment accumulation behind the dam. If the storage loss continues unabated at this rate of about 360 acre feet per year, ultimately all water conservation will be lost. In response for the need for sediment management at Prado Basin, OCWD is proposing a sediment management demonstration project that will remove between 250,000 and 500,000 cubic yards of material from the bottom of Prado Basin and re-entrain in a controlled manner back into the lower Santa Ana River downstream of Prado Dam. When completed the demonstration project will provide data, conclusions and recommendations to implement a long-term sediment management program at Prado Basin.

2.2 Project Area Setting

As shown in Figure 1 the project area is located in the southeast area of Prado Basin. The project area is generally bounded by State Route 91 to the south and State Route 71 to the west. The Prado Basin provides flood control for 2,225 square miles of the 2,650 square mile area Santa Ana River Watershed. There are four major water bodies that are tributary to Prado Dam; Santa Ana River, Chino Creek, Cucamonga Creek/Mills Creek and Temescal Wash. The flood control and water conservation activities at Prado Dam require that portions of Prado Basin be inundated with water for long periods of time. These periods of inundation influences the vegetation and wildlife at Prado Basin and has created the largest riparian forest in southern California. The periods of inundation also significantly restricts access and activities occurring in the Prado Basin.
Proposed Project Areas
2.3 Proposed Project

The OCWD is proposing a sediment management demonstration project that will remove between 250,000 and 500,000 cubic yards of material from the Prado Basin and re-entrain it in a controlled manner back into the lower Santa Ana River, downstream of Prado Dam. The project involves three primary activities; 1) the construction and operation of sediment removal channel, 2) the construction and operation of sediment storage and handling area and green waste processing area and 3) operation of sediment re-entrainment back into the lower Santa Ana River. The components of the Project are shown in Figure 2.

**Sediment Removal Channel**

The sediment removal channel follows the alignment of the Santa Ana River in the southeast portion of Prado Basin. The western end of the channel is located approximately 1,700 feet from the Prado Dam outlet works. The sediment removal channel will have a length of 6,000 feet, a width of 200 feet and a depth of 12 feet. A 30 foot access road will be provided along both sides of the channel alignment. A 300 buffer area is proposed around the perimeter of the sediment channel. The intent of the buffer area is to allow for modifications to the alignment during the detail design phase to minimize impacts to sensitive areas.

In order to construct the sediment removal channel all vegetation within the channel will have to be removed. The alignment of the channel to the maximum extent possible will extend through areas that contain Arundo or other non-native vegetation. The vegetation removal will occur outside of nesting season. The removed vegetation will be trucked to a green waste area where it will be processed and converted to mulch and/or firewood.

The sediment will be removed from sediment removal channel with hydraulic dredge operating in the wetted channel. A dredging barge will travel up and down the sediment removal channel by anchoring spuds into the ground. The collected sediment slurry will be conveyed by booster pumps to a sediment storage site through a temporary above ground discharge pipeline.

**Sediment Storage and Processing**

In order to remove and re-entrain sediments back into the Santa Ana River to achieve an adequate sediment concentration level of 1% or lower, the sediment will need to be re-entrained under higher flow conditions. Therefore, it will be necessary to store the removed sediments for a period of time until adequate releases are occurring from Prado Dam. The slurry collected from the hydraulic dredging will be processed at a sediment storage site to prepare it for re-entrainment back into the river. The storage site consists of 45.75 acres. The site
includes sediment storage and processing area and a green waste area. Three separate de-watering basins will be constructed at the temporary storage site location. Slurry will be pumped into the first de-watering basin to begin the drying process. Once the sediment is dry it will be relocated and temporarily stockpiled for re-entrainment.

**Sediment Re-entrainment**

When Santa Ana River flows are at a sufficient rate, the sediment will be re-mixed into a slurry using water from the Santa Ana River and then pumped through an above ground temporary discharge pipeline to the sediment re-entrainment area. A crane will be position on the levee to secure the discharge end of the re-entrainment pipeline to insure even distribution of sediment into the river.

### 2.4 Project Area Access

Regional access to the project area will be provided from State Route 91 and State Route 71. At this time potential access routes to the project area includes; Serfas Club Drive to Auto Center Drive, Lincoln Avenue to Railroad Street and along an existing service road located on the north side of the Santa Ana River. In the event access is not available along Serfas Club Drive or Auto Center Drive, Lincoln Avenue and Railroad Street and the existing service road located on the north side of the Santa Ana River will become the primary access into the project area. Prior to the start of the Project OCWD will coordinate with local agencies on preferred access routes. The table below identifies the daily offsite roundtrip traffic trips generated by each construction phase of the Project.

**Table 1: Traffic Trips**

<table>
<thead>
<tr>
<th>Phase</th>
<th>Total Daily Roundtrip Traffic/Vehicle Type</th>
<th>Number Days</th>
<th>Time Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Construction Monitoring</td>
<td>7 Trips/Five Light Trucks</td>
<td>30 days</td>
<td>Peak Traffic Period</td>
</tr>
<tr>
<td>Site Preparation</td>
<td>12 Trips/Four Light Trucks 34 Trips/Five 10-Wheel Trucks</td>
<td>30 days</td>
<td>Non-Peak Traffic Period</td>
</tr>
<tr>
<td>Infrastructure Construction</td>
<td>3 Trips/Three 18-wheel Trucks 2 Trips/Two 10-Wheel Trucks 2 Trips/ One light Truck</td>
<td>30 days</td>
<td>Non-Peak Traffic Period</td>
</tr>
<tr>
<td>Sediment Removal</td>
<td>4 Trips/Two Light Trucks</td>
<td>188 Days</td>
<td>Peak Traffic Period</td>
</tr>
<tr>
<td>Sediment Re-Entrainment</td>
<td>4 Trips/ Two Light Trucks</td>
<td>30 days</td>
<td>Peak Traffic Period</td>
</tr>
<tr>
<td>Monitoring, Site Restoration</td>
<td>18 Trips/ Six Light Trucks</td>
<td>120 days</td>
<td>Peak Traffic Period</td>
</tr>
</tbody>
</table>
Figure 2
Proposed Access Roads
Above Ground Pipeline
2.5 Construction Phasing Plan

The Project will be implemented in several phases over a five year period, beginning in the fall of 2014. The schedule of the Project is largely driven by environmental and climatological conditions. The first phase involves pre-construction monitoring to establish baseline conditions and data to compare the project too. The second phase involves the clearing of vegetation and the construction of the sediment removal channel, sediment storage and green waste processing area and access roads. The third phase involves the removal of sediment from the channel and the conveyance of it to the sediment storage site to prepare it for re-entrainment. The forth phase involves sediment re-entrainment. The final phase will be Post-construction monitoring, mitigation and site restoration.
SECTION 3.0 ENVIRONMENTAL CHECK LIST EVALUATIONS

The following is the OCWD Environmental Checklist Form that was prepared for the Orange County Water District Prado Basin Sediment Management Demonstration Project. The Environmental Checklist Form is consistent with Environmental Checklist form provided in Appendix G of the CEQA Guidelines.
ENVIRONMENTAL CHECKLIST
FOR CEQA COMPLIANCE

Project Title: Prado Basin Sediment Management Demonstration Project

Lead Agency Name and Address: Orange County Water District
18700 Ward Street
Fountain Valley, CA 92708

Project Contact: Daniel Bott

Location: Prado Basin, Riverside County

Environmental Determination On the basis of this initial evaluation, I find that:

a) ☐ The proposed project COULD NOT have a significant effect on the environment and a NEGATIVE DECLARATION will be prepared.

b) ☐ Although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions to the project have been made by or agreed to by the applicant. A MITIGATED NEGATIVE DECLARATION will be prepared.

c) ☒ The proposed project MAY have a significant effect on the environment and an ENVIRONMENTAL IMPACT REPORT is required.

d) ☐ Although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR (EIR No. -) pursuant to applicable standards and (b) have been avoided or mitigated pursuant to that earlier EIR, including revisions or mitigation measures that are imposed upon the project, nothing further is required.

e) ☐ Pursuant to Section 15164 of the CEQA Guidelines, an EIR (EIR No. -) has been prepared earlier and only minor technical changes or additions are necessary to make the previous EIR adequate and these changes do not raise important new issues about the significant effects on the environment. An ADDENDUM to the EIR shall be prepared.

f) ☐ Pursuant to Section 15162 of the CEQA Guidelines, an EIR (EIR No. -) has been prepared earlier; however, subsequent proposed changes in the project and/or new information of substantial importance will cause one or more significant effects no previously discussed. A SUBSEQUENT EIR shall be prepared.

Daniel Bott

Date 11-13-2013
ENVIRONMENTAL CHECKLIST
FOR CEQA COMPLIANCE

Environmental Factors Potentially Affected:

The environmental factors checked below reflect potentially significant impacts associated with the proposed project, as indicated by the checklist on the following pages.

☐ Aesthetics
☐ Agricultural Resources
☒ Air Quality
☒ Biological Resources
☒ Cultural Resources
☒ Geology / Soils
☐ Hazards and Hazardous Materials
☒ Hydrology / Water Quality
☐ Mineral Resources
☐ General Plan Amendment
☐ Historic Demolition
☐ Historic Project Review
☒ Noise
☐ Population / Housing
☐ Public Services
☐ Recreation
☒ Transportation / Traffic
☐ Utilities / Service Systems
☒ Mandatory Findings of Significance
Evaluation of Environmental Impacts:

I. A brief explanation is required for all answers except “No Impact” answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A “No Impact” answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A “No Impact” answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).

II. All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.

III. “Potentially Significant Impact” is appropriate if there is substantial evidence that an effect is significant. If there are one or more “Potentially Significant Impact” entries when the determination is made, an EIR is required.

IV. “Less than Significant with Mitigation Incorporated” applies where the incorporation of mitigation measures has reduced an effect from “Potentially Significant Impact” to a “Less than Significant Impact”. The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level.
## ENVIRONMENTAL CHECKLIST
### FOR CEQA COMPLIANCE

### V. ISSUES & SUPPORTING INFORMATION SOURCES

<table>
<thead>
<tr>
<th>Issues &amp; Sources</th>
<th>Potentially Significant Impact</th>
<th>Less Than Significant with Mitigation Incorporated</th>
<th>Less Than Significant Impact</th>
<th>No Impact</th>
</tr>
</thead>
</table>

### I. AESTHETICS – Would the project:

a) Have a substantial adverse effect on a scenic vista? ☒ ☐ ☐ ☐

b) Damage scenic resources, including but not limited to, trees, rock outpourings and historic buildings within a state highway? ☒ ☐ ☐ ☐

c) Substantially degrade the existing visual character or quality of the site and its surroundings? ☒ ☐ ☐ ☐

d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area? ☒ ☐ ☐ ☐

### II. AGRICULTURAL AND FOREST RESOURCES: In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model prepared by the California Department of Conservation as an optional model to use in assessing impacts on agricultural farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state’s inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:

a) Convert Prime Farmland, Unique Farmland or Farmland of Statewide Importance (Farmland) to non-agricultural use? (The Farmland Mapping and Monitoring Program in the California Resources Agency, Department of Conservation, maintains detailed maps of these and other categories of farmland.) ☐ ☐ ☐ ☒

b) Conflict with existing zoning for agricultural use or a Williamson Contract? ☐ ☐ ☐ ☒

c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g)) ☐ ☐ ☐ ☒

d) Result in the loss of forest land or conversion of forest land to non-forest use? ☒ ☐ ☐ ☐

e) Involve other changes in the existing environment which, due to their location or nature, could individually or cumulatively result in loss of Farmland, to non-agricultural use or conversion of forest land to non-forest use? ☐ ☐ ☐ ☒
### V. Issues & Supporting Information Sources

<table>
<thead>
<tr>
<th>Impact Category</th>
<th>Potentially Significant Impact</th>
<th>Less Than Significant Impact with Mitigation Incorporated</th>
<th>Less Than Significant Impact</th>
<th>No Impact</th>
</tr>
</thead>
</table>

#### III. AIR QUALITY – Where available, the significance criteria established by the applicable air quality management or pollution control district may be relied upon to make the following determinations.

Would the project:

a) Conflict with or obstruct implementation of applicable Air Quality Attainment Plan?

b) Violate any stationary source air quality standard or contribute to an existing or projected air quality violation?

c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?

d) Expose sensitive receptors to substantial pollutant concentrations?

e) Create objectionable odors affecting a substantial number of people?

#### IV. BIOLOGICAL RESOURCES – Would the project:

a) Have a substantial adverse impact, either directly or through habitat modifications, on any species identified as a candidate, sensitive or special status species in local or regional plans, policies or regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Services?

b) Have a substantial adverse impact on any riparian habitat or natural community identified in local or regional plans, policies, and regulations or by the California Department of fish and Game or U.S. Fish and Wildlife Service?

c) Adversely impact federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) either individually or in combination with the known or probable impacts of other activities through direct removal, filling hydrological interruption, or other means?

d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?
V. ISSUES & SUPPORTING INFORMATION SOURCES

<table>
<thead>
<tr>
<th>V. ISSUES &amp; SUPPORTING INFORMATION SOURCES</th>
<th>POTENTIALLY SIGNIFICANT IMPACT</th>
<th>LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED</th>
<th>LESS THAN SIGNIFICANT IMPACT</th>
<th>NO IMPACT</th>
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<tbody>
<tr>
<td>e) Conflict with any local policies or ordinances protecting biological resources, such as tree preservation policy or ordinance?</td>
<td>☒</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?</td>
<td>☒</td>
<td>☐</td>
<td>☐</td>
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</table>

V. CULTURAL RESOURCES – Would the project:

a) Cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5? | ☒ | ☐ | ☐ | ☐ |

b) Cause a substantial adverse change in the significance of a unique archaeological resource pursuant to define Section 15064.5? | ☒ | ☐ | ☐ | ☐ |

c) Directly or indirectly disturb or destroy a unique paleontological resource or site? | ☒ | ☐ | ☐ | ☐ |

d) Disturb any human remains, including those interred outside of formal cemeteries? | ☒ | ☐ | ☐ | ☐ |

VI. GEOLOGY AND SOILS – Would the project:

a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:

1. Rupture of a known earthquake fault, as delineated on the most recent on the most recent Alquist-Priolo Earthquake Fault Zoning map issued by the State Geologist for the area or based on other substantial evidence of a known fault? | ☒ | ☐ | ☐ | ☐ |

2. Strong seismic ground shaking? | ☑ | ☐ | ☐ | ☐ |

3. Seismic-related ground failure, including liquefaction? | ☑ | ☐ | ☐ | ☐ |

4. Landslides? | ☐ | ☐ | ☒ | ☐ |

b) Would the project result in substantial soil erosion or the loss of topsoil? | ☒ | ☐ | ☐ | ☐ |

c) Be located on a geologic unit or soil that is unstable or that would become unstable as a result of the project and potentially result in on-or off-site landslide, lateral spreading, subsidence, liquefaction or collapse? | ☒ | ☐ | ☐ | ☐ |

d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property? | ☒ | ☐ | ☐ | ☐ |
### V. Issues & Supporting Information Sources

<table>
<thead>
<tr>
<th>e)</th>
<th>Have soils incapable of adequately supporting the use of septic tanks or alternative waste disposal systems where sewers are not available for the disposal of wastewater?</th>
<th></th>
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<td></td>
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<td></td>
<td></td>
<td>☒</td>
</tr>
</tbody>
</table>

### VII. Greenhouse Gas Emissions — Would the project?

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

- ☒
- ☐
- ☐
- ☐

### VIII. Hazardous and Hazardous Materials – Would the project:

a) Create a significant hazard to the public or the environment through the routine transport, use or disposal of hazardous materials?

- ☐
- ☐
- ☒
- ☐

b) Create a significant hazard to the public or environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

- ☒
- ☐
- ☒
- ☐

c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substance or waste within one-quarter mile of an existing or proposed school?

- ☐
- ☐
- ☒
- ☐

d) Be located on a site which is located on a list of hazardous materials sites compiled pursuant to Government Code Section 659662.5 and, as a result, would it create a significant hazard to the public or the environment?

- ☒
- ☐
- ☐
- ☐

ey) For a project located within an airport land use plan or where such a plan has not been adopted, within two miles where of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?

- ☐
- ☐
- ☒
- ☐

f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?

- ☐
- ☐
- ☒
- ☐

g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation?

- ☒
- ☐
- ☐
- ☐
### V. Issues & Supporting Information Sources

<table>
<thead>
<tr>
<th>Plan?</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Checkmark]</td>
</tr>
</tbody>
</table>

h) Expose people or structures to a significant risk of loss, injury, or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?

### VIX. Hydrology and Water Quality

- Would the project:

  a) Violate any water quality standards or waste discharge requirements?

  ![Checkmark] | ![None] | ![None] | ![None] |

  b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?

  ![Checkmark] | ![None] | ![None] | ![None] |

  c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?

  ![Checkmark] | ![None] | ![None] | ![None] |

  d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?

  ![Checkmark] | ![None] | ![None] | ![None] |

  e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

  ![Checkmark] | ![None] | ![None] | ![None] |

  f) Otherwise substantially degrade water quality?

  ![Checkmark] | ![None] | ![None] | ![None] |

  g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?

  ![Checkmark] | ![None] | ![None] | ![None] |

  h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?

  ![Checkmark] | ![None] | ![None] | ![None] |

  i) Expose people or structures to a significant risk of loss, injury, or death involving

  ![Checkmark] | ![None] | ![None] | ![None] |
<table>
<thead>
<tr>
<th>V. ISSUES &amp; SUPPORTING INFORMATION SOURCES</th>
<th>POTENTIALLY SIGNIFICANT IMPACT</th>
<th>LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED</th>
<th>LESS THAN SIGNIFICANT IMPACT</th>
<th>NO IMPACT</th>
</tr>
</thead>
<tbody>
<tr>
<td>flooding, including flooding as a result of the failure of a levee or dam?</td>
<td>☐</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
</tr>
<tr>
<td><em>(j) Inundation by seiche, tsunami, or mudflow?</em></td>
<td>☐</td>
<td>☐</td>
<td>☒</td>
<td>☐</td>
</tr>
<tr>
<td>X. LAND USE AND PLANNING – Would the project:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a) Physically divide an established community?</td>
<td>☒</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?</td>
<td>☒</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>c) Conflict with any applicable habitat conservation plan or natural community conservation plan?</td>
<td>☒</td>
<td>☐</td>
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<td>XI. MINERAL RESOURCES – Would the project:</td>
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<tr>
<td>a) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?</td>
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<td>XII. NOISE – Would the project result in:</td>
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<tr>
<td>a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?</td>
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<td>b) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?</td>
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<td>c) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without project?</td>
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<td>d) For a project located within an airport land use plan or where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?</td>
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<td>e) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?</td>
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## V. Issues & Supporting Information Sources

<table>
<thead>
<tr>
<th>Potentially Significant Impact</th>
<th>Less Than Significant with Mitigation Incorporated</th>
<th>Less Than Significant Impact</th>
<th>No Impact</th>
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<tbody>
<tr>
<td>f) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?</td>
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### XIII. Population and Housing
- Would the project:
  - a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and business) or indirectly (for example, through extension of roads or other infrastructure)? ❌
  - b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere? ❌
  - c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere? ❌

### XIV. Public Services
- Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service rations, response times or other performance objectives for any of the public service:
  - Fire protection? ❌
  - Police protection? ❌
  - Schools? ❌
  - Parks? ❌
  - Other public facilities? ❌

### XV. Recreation
- Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated? ❌
- Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment? ❌
<table>
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<tr>
<th>V. Issues &amp; Supporting Information Sources</th>
<th>Potentially Significant Impact</th>
<th>Less Than Significant with Mitigation Incorporated</th>
<th>Less Than Significant Impact</th>
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<tr>
<td><strong>XVI. TRANSPORTATION/TRAFFIC Would the project:</strong></td>
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<tr>
<td>a) Conflict with an applicable plan, ordinance</td>
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<td>or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?</td>
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<td>b) Conflict with an applicable congestion management program, including but limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?</td>
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<td>c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?</td>
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<td>d) Substantially increase hazards to a design feature (e.g. sharp curves or dangerous intersections) or incompatible uses (e.g. farm equipment)?</td>
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<td>e) Result in inadequate emergency access?</td>
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<td>f) Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?</td>
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<td><strong>XVII. UTILITIES AND SERVICE SYSTEMS – Would the project:</strong></td>
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<tr>
<td>a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?</td>
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<td>b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?</td>
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<tr>
<td>c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant</td>
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### ENVIRONMENTAL CHECKLIST
FOR CEQA COMPLIANCE

#### V. ISSUES & SUPPORTING INFORMATION SOURCES

<table>
<thead>
<tr>
<th>environmental effects?</th>
<th>POTENTIALLY SIGNIFICANT IMPACT</th>
<th>LESS THAN SIGNIFICANT WITH MITIGATION INCORPORATED</th>
<th>LESS THAN SIGNIFICANT IMPACT</th>
<th>NO IMPACT</th>
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#### XVIII. MANDATORY FINDINGS OF SIGNIFICANCE –

| a)                      | ☒                             | □                                                | □                           | □         |
| b)                      | ☒                             | □                                                | □                           | □         |
| c)                      | ☒                             | □                                                | □                           | □         |

Note: Authority cited: Sections 21083, 21083.05, Public Resources Code. Reference: Section 65088.4
SECTION 4.0 ENVIRONMENTAL ANALYSIS

The following environmental analysis responds to the environmental issues listed on the OCWD CEQA Checklist Form. The analysis identifies the level of anticipated impact that could occur from implementation of the Orange County Prado Basin Water District Sediment Management Demonstration Project (Project).

4.1 Aesthetics

A. Would the project have a substantial adverse effect on a scenic vista?

**Potential Significant Impact:** The Prado Basin contains the largest riparian forest in southern California. The basin provides open space relief to a regional area that is predominantly urbanized. Potential public views into Prado Basin are currently provided from Chino Hills State Park, State Route 71, and State Route 91. Additionally, the future alignment of the Santa Ana River Trail will provide public views into the Prado Basin. During construction and operation of the Project public views into the Prado Basin could be interrupted with construction equipment and construction activity. The EIR will evaluate potential impacts to scenic vistas into Prado Basin.

B. Would the project damage scenic resources, including but limited to trees, rock outpourings, and historic buildings within a State Highway?

**Potential Significant Impact:** According to the California Department of Transportation Scenic Highways Program, both State Route 71 and State Route 91 are Eligible State Scenic Highways. There is the potential that components of the Project could be within the view shed of motorist along these Eligible State Scenic Highways. The EIR will evaluate potential impacts to scenic resources within the view shed of Eligible State Scenic Highways.

C. Would the project substantially degrade the existing visual character or quality of the site and its surrounding?

**Potential Significant Impact:** The visual character of the project area is natural open space. During construction operations the existing natural open space visual character of the project area will be replaced with construction equipment and construction activity. The EIR will evaluate potential impacts to the existing aesthetic character of the project area as a result of the construction and operation of the Project.

D. Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area.
**Potential Significant Impact:** The implementation of the Project could require night time construction activity. To ensure safe working conditions and proper operation of equipment during the night time, floodlights will be used. Sensitive receptors within the line of sight of the flood lights during nighttime construction activities could potentially be impacted from spill-over lighting. The EIR will evaluate potential light and glare impacts associated with night time construction activity.

4.2 Agricultural Resources/Forest Resources

A. Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

**No Impact:** According to the State of California Farmland Mapping and Monitoring Program, the project site does not contain Prime Farmland, Unique Farmland or Farmland of Statewide Importance. Therefore, implementation of the Project will not result in any adverse impacts to important agriculture resources. This issue will not be evaluated in the EIR.

B. Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract?

**No Impact:** Currently, there are no agriculture operations occurring within the project area. According to the County of Riverside General Plan, the project site is not designated for agriculture land uses. Additionally, the County of Riverside General Plan does not identify that there are any existing Williamson Contracts that include the project site. Therefore, implementation of the Project will not be in conflict with any existing agriculture uses. This issue will not be evaluated in the EIR.

C. Would the project be in conflict with existing zoning for, or cause rezoning of forest land or timberland.

**No Impact:** The Riverside County General Plan designates the project area open space. The project area is not zoned for timberland production. The Project will not rezone the project area from open space to a different land use. This issue will not be evaluated in the EIR.

D. Would the project result in the loss of forest land or conversion of forest land to non-forest use?
Potential Significant Impact: According to the California Department of Forestry, the project area is not State Forest Lands. The Project will not permanently convert forest land to non-forest land uses. Potential temporary impacts to riparian forest lands at Prado Basin will be evaluated in the EIR, as part of the evaluation of impacts to biological resources.

E. Would the project involve other changes in the existing environment which, due to their location or nature, could result in conversion of forest land to non-forest use?

Potential Significant Impact: The Project will not permanently convert forest land to non-forest land uses. Potential temporary impacts to riparian forest lands at Prado Basin will be evaluated in the EIR, as part of the evaluation of impacts to biological resources.

4.3 Air Quality

A. Would the project be in conflict with or obstruct implementation of the applicable air quality plan or congestion management plan?

Potential Significant Impact: The project site is located within the South Coast Air Basin (basin). The air pollution control agency for the basin is the South Coast Air Quality Management District (SCAQMD). The construction and operation of the Project could emit criteria air quality pollutant emissions that could exceed SCAQMD thresholds and could result in potentially significant air quality impacts that could potentially be in conflict with SCAQMD Air Quality Management Plan. This issue will be evaluated in the EIR.

B. Would the project violate any air quality standard or contribute substantially to an existing or projected air quality violation?

Potential Significant Impact: The construction and operation of the Project could emit criteria air quality pollutant emissions that could exceed SCAQMD thresholds and result in potentially significant regional and local air quality impacts. This issue will be evaluated in the EIR.

C. Would the project result in cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

Potential Significant Impact: The construction and operation of the Project could emit criteria air quality pollutant emissions that together with other cumulative projects in the area could exceed SCAQMD thresholds and result in potentially significant air quality impacts. This issue will be evaluated in the EIR.
D. Would the project expose sensitive receptors to substantial pollutant concentrations?

**Potential Significant Impact:** The construction and operation of the Project could emit criteria air quality pollutant emissions that could exceed SCAQMD thresholds and result in potentially significant localized air quality impacts. This issue will be evaluated in the EIR.

E. Would the project create objectionable odors affecting a substantial number of people?

**Potential Significant Impact:** Diesel exhaust will be emitted during construction operations which could be objectionable to some people. This issue will be evaluated in the EIR.

### 4.4 Biological Resources

A. Would the project have a substantial adverse impact, either directly or through habitat modifications, on any species identified as a candidate, sensitive or special status species in local or regional plans, policies or regulations or by the California Department of Fish and Game or U.S. Fish and wildlife Services?

**Potential Significant Impact.** Based on review of the California Department of Fish and Wildlife Natural Diversity Database and the U.S. Department of Interior Information, Planning and Conservation System Database there is high potential that special status wildlife species and plant species could occur within the project area. The EIR will evaluate if construction and operation of the Project will have the potential to result in adverse impacts to sensitive habitat, sensitive wildlife and sensitive plant species within the project area.

B. Would the project have a substantial adverse impact on any riparian habitat or natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?

**Potential Significant Impact.** The project area contains riparian habitat and coastal sage scrub habitat. Implementation of the Project will result in the temporary loss of riparian habitat and coastal sage scrub habitat which are both considered a sensitive vegetation community by California Department of Fish and Wildlife. The EIR will evaluate potential impacts to riparian habitat, coastal sage scrub habitat and other sensitive communities that might be impacted by the construction and operation of the Project.
C. Would the project have a substantially adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act through direct removal, filling hydrological interruption, or other means?

**Potential Significant Impact.** The Project involves the construction of a sediment removal channel along the Santa Ana River. The Santa Ana River is classified Waters of the U.S. and State. The EIR will evaluate potential impacts to Waters of the U.S. and State.

D. Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

**Potential Significant Impact.** The Prado Basin and the tributaries in the basin function as wildlife corridors. Additionally, Prado Basin contains a high migratory bird population. The EIR will evaluate potential wildlife corridor impacts and impacts to migratory birds associated with the construction and operation of the Project.

E. Would the project conflict with any local policies or ordinances protecting biological resources, such as tree preservation policy or ordinance?

**Potential Significant Impact:** The EIR will evaluate if the Project will conflict with local policies and ordinances that provide for the protection of biological resources.

F. Would the project be in conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

**Potential Significant Impact:** The project area is included within the Western Riverside County Multiple Species Habitat Conservation Plan. The EIR will evaluate if the construction and operation of the Project will be in conflict with policies and programs provided in the Western Riverside County Multiple Species Habitat Conservation Plan.

### 4.5 Cultural Resources

A. Would the project cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5 of the CEQA Guidelines?

**Potential Significant Impact:** The project area region is known to contain sensitive historical resources. The EIR will evaluate the potential for the
construction and operation of the Project to result in adverse impacts to historical resources.

**B. Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5 of the CEQA Guidelines?**

**Potential Significant Impact:** The project area region is known to contain sensitive archaeological resources. The EIR will evaluate the potential for the construction and operation of the Project to result in adverse impacts to sensitive archaeological resources.

**C. Would the project directly or indirectly disturb or destroy a unique paleontological resource or site?**

**Potential Significant Impact:** The project area region is known to contain geologic deposits that have potential to contain paleontological resources. The EIR will evaluate the paleontological sensitivity of the project area and the potential for the construction and operation of the Project to result in adverse impacts to paleontological resources.

**D. Would the project disturb any human remains including those interred outside of formal cemeteries?**

**Potential Significant Impact:** The project area is known to contain Native American cultural resources. The EIR will evaluate the potential for the construction and operation of the Project to result in adverse impacts to Native American cultural resources.

**4.6 Geology/Soils**

**A1. Would the project expose people or structures to potential substantial adverse effects, including the risk of loss, injury or death involving rupture of an unknown earthquake fault, as delineated on the most Alquist-Priolo Earthquake Fault Zoning Map?**

**Potential Significant Impact:** According to the State of California Special Studies Zones Map Prado Dam Quadrangle, the Elsinore Fault Zone extends through Prado Basin, near State Highway 71. The EIR will evaluate potential rupture impacts associated with the Elsinore Fault Zone and how they might impact the construction and operation of the Project.

**A2. Would the project expose people or structures to potential substantial adverse effects, including the risk of loss, injury or death involving strong seismic ground shaking?**
**Section 4
Environmental Analysis**

**Potential Significant Impact.** The project area is located in a seismically active region that could be subject to seismic shaking impacts during earthquakes generated from several surrounding active faults in the region. The EIR will evaluate potential seismic impacts and how they might impact the construction and operation of the Project.

**A3. Would the project expose people or structures to potential substantial adverse effects, including the risk of loss, injury or death involving liquefaction?**

**Potential Significant Impact.** The California Geologic Survey Seismic Hazard Zone Map for the Prado Dam Quadrangle indicates that the project area is located within a Liquefaction Hazard Zone. The EIR will evaluate potential liquefaction impacts and how they might impact the construction and operation of the Project.

**A4. Would the project expose people or structures to potential substantial adverse effects, including the risk of loss, injury or death involving landslides?**

**Less Than Significant Impact:** The California Geologic Survey Seismic Hazard Zone Map for the Prado Dam indicates that the Prado Basin site is not located within landslide hazard zone. The EIR will not evaluate potential landslide impacts.

**B. Would the project result in substantial soil erosion or the loss of topsoil?**

**Potential Significant Impact.** Construction and operational activities associated with the Project could result in erosion impacts. The EIR will evaluate potential erosion impacts that might result from the construction and operation of the Project.

**C. Would the project be located on a geologic unit or soil that is unstable or that would become unstable as a result of the project and potentially result in on or off site landslide, lateral spreading, subsidence, liquefaction or collapse?**

**Potential Significant Impact:** The EIR will identify potential geologic constraints within the project area and how they might impact the construction and operation of the Project.

**D. Would the project be located on expansive soil, as defined in Table 18-1-B of the uniform Building Code, creating substantial risks to life or property?**
Potential Significant Impact: The EIR will evaluate soil constraints within the project area and potential impacts that might result from implementation of the Project.

E. Would the project have soils incapable of adequately supporting the use of septic tanks or alternative waste disposal systems where sewers are not available for the disposal of wastewater?

No Impact. The Project does not propose the use of septic tanks or other alternative wastewater disposal systems. This issue will not be evaluated in the EIR.

4.7 Greenhouse Gas Emissions

A. Would the project generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?

Potential Significant Impact. The construction and operation of the Project will generate greenhouse gas emissions. The EIR will evaluate potential impacts associated with greenhouse gas emissions and conflicts with relevant air quality planning programs.

B. Would the project be in conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Potential Significant Impact. The Orange County Water District and the South Coast Air Quality Management District both do not have an applicable plan, policy or regulation adopted to reduce the emissions of greenhouse gases. The State has prepared a draft scoping plan to reduce greenhouse gas emissions to 1990 levels by the year 2020. The EIR will evaluate the Project for consistency with the State scoping plan.

4.8 Hazards/Hazardous Materials

A. Would the project create a significant hazard to the public or the environment through the routine transport, use or disposal of hazardous materials.

Less than Significant Impact: The operation of the Project will not involve the routine transportation, disposal or emission of hazardous materials or waste. The operation of the Project will involve the handling of incidental amounts of hazardous materials, such as fuels and oil. The Project will be required to comply with local, state and federal laws and regulations regarding the handling and storage of hazardous materials. Compliance with the required local, state and
federal laws and regulations will reduce potential hazards associated with the handling of the incidental amounts of hazardous materials to a less than significant level. This issue will not be evaluated in the EIR.

B. Would the project create a significant hazard to the public or environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Less than Significant Impact: The construction and operation of the Project will not create a substantial risk to release hazardous materials into the environment. Construction operations associated with the Project will involve the handling of incidental amounts of hazardous materials. The compliance with federal, state and local laws and regulations will reduce potential impacts associated with the handling of these incidental amounts of hazardous materials to a less than significant level. This issue will not be evaluated in the EIR.

C. Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substance or waste within one-quarter mile of an existing or proposed school.

Less than Significant Impact: The operation of the Project will not emit hazardous emissions, or involve the handling of acutely hazardous substances within one quarter mile of a school. This issue will not be evaluated in the EIR.

D. Would the project be located on a site which is included on a list of hazardous material sites compiled pursuant to Government Code Section 65962.5 and as a result, would create significant hazard to the public or the environment?

Potential Significant Impact: The EIR for the Project will evaluate the potential of any hazardous waste sites or substances to be present within the project area.

E. For a project located within an airport land use plan or where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working within the project area?

F. For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?

Less Than Significant Impact. According to Riverside County General Plan Safety Element the project area is located within the planning area for the Corona Airport. However, the project area is not located within a Clear Zone or Accidental Potential Zone. Therefore, implementation of the Project will not result
in aircraft related safety hazards to people within the project area. This issue will not be evaluated in the EIR

G. Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Potential Significant Impact: Implementation of the Project will occur within the reservoir area of Prado Dam. The EIR will evaluate potential flood risks and if the Project will interfere with emergency evacuation plans or emergency responses to the project area.

H. Would the project expose people or structures to a significant risk of loss, injury or death involving wild land fires, including where wild lands are adjacent to urbanized areas or where residences are intermixed with wild lands?

Potential Significant Impact. The Riverside County General Plan identifies that the Prado Basin has a moderate potential for wild land fire susceptibility. The EIR will evaluate potential wild land fire risks.

4.9 Hydrology/Water Quality

A. Would the project violate Regional Water Quality Control Board Water Quality standards or waste discharge standards?

Potential Significant Impact. The EIR will evaluate potential water quality impacts associated with the construction and operation of the Project, as well as compliance with regulations and standards provided in the Santa Ana Region Regional Water Quality Control Board Basin Plan.

B. Would the project substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level?

Potential Significant Impact: The EIR will evaluate potential impacts the Project could have on groundwater supplies within the project area.

C. Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on or off site?

Potential Significant Impact: The Project involves the removal of sediment from the Prado Basin and the re-entrainment of the sediment back into the Santa Ana River. The EIR will evaluate potential erosion and sedimentation impacts within
the basin and downstream receiving waters bodies potentially caused by the Project.

D. Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on or offsite?

Potential Significant Impact: The Project will be implemented within the reservoir area of Prado Dam. The EIR will evaluate potential impacts to the flood control capacity of Prado Dam and along the Santa Ana River associated with the construction and operation of the Project. Additionally, the EIR will evaluate potential project conflicts with the operation of Prado Dam.

E. Would the project create or contribute runoff which would exceed the capacity of existing or planned storm water drainage systems or provide substantial additional sources of polluted runoff?

Potential Significant Impact: The Project does not involve the construction of any impervious surfaces. Therefore, there will not be any increase in existing surface water runoff rates that could exceed the capacity of existing or planned storm water drainage systems within the project area. The project will remove sediment from Prado Basin and re-entrain the sediment back into the Santa Ana River. The EIR will evaluate if the sediment re-entrained into the river will result in adverse water quality impacts.

F. Would the project otherwise degrade water quality?

Potential Significant Impact: The construction and operation of the Project could have the potential to increase turbidity in the Santa Ana River and result in adverse water quality impacts. The EIR will evaluate potential water quality impacts associated with implementation of the Project.

G. Would the project place housing within a 100-year floodplain, as mapped on a federal Flood Hazard Boundary or Flood insurance Rate map or other flood hazard delineation map?

Potential Significant Impact: The EIR will evaluate potential impacts to the flood control capacity of the dam and potential flood impacts to residential areas located downstream of the project area.

H. Would the project place within a 100-year floodplain structures which impedes or redirect flows?
**Potential Significant Impact:** The EIR will evaluate potential impacts to the flood control capacity of the dam and to the flood control capacity of the Santa Ana River.

I. Would the project expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?

**Potential Significant Impact:** The Project will be implemented in the reservoir area of Prado Dam. The EIR will evaluate potential flood risks associated with the construction and operation of the Project in the reservoir.

J. Could the project site be inundated by seiche, tsunami, or mudflow?

**Less than Significant impact:** The potential for the project area to be inundated by a seiche, tsunami or mudflow is very low. The implementation of the Project will not increase the risk for these impacts. This issue will not be evaluated in the EIR.

### 4.10 Land Use/Planning

A. Would the project physically divide an established community?

**Potential Significant Impact:** The EIR will evaluate the land use compatible of the Project with existing land uses in the vicinity of the project area.

B. Would the project be in conflict with any applicable land use plan, policy or regulation of an agency with jurisdiction over the project adopted for the purpose of avoiding or mitigating an environmental effect?

**Potential Significant Impact:** The Project will be located in area that is under the jurisdiction of several different local, state and federal agencies. The EIR will evaluate potential conflicts with relevant planning programs, policies and regulations that apply to the project area.

C. Would the project be in conflict with any applicable habitat conservation plan or natural community conservation plan?

**Potential Significant Impact:** The project site is included within the Western Riverside County Multiple Species Habitat Management Plan. The EIR will evaluate if the Project would be in conflict with policies and programs provided in the Western Riverside County Multiple Species Habitat Management Plan.

### 4.11 Mineral Resources

A. Would the project result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use?
Less Than Significant Impact: According to the County of Riverside General Plan, Prado Basin is designated MRZ-3, areas where the available geologic information indicates that mineral deposits are likely to exist. However, because of the high amount of sediment build up in the basin it is unlikely any important mineral resources would be encountered. This issue will not be evaluated in the EIR.

4.11 Noise

A. Would the project expose persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Potential Significant Impact: The construction and operation of the Project will result in temporary noise impacts. The EIR will evaluate potential temporary noise impacts on sensitive receptors and compliance with local noise standards and policies.

B. Would the project result in a substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?

No Impact: The Project is a sediment management demonstration project that will be implemented over a five year period. Once the Project is completed all construction and operation activity will cease. There will not be long term increases in ambient noise levels within the project area. This issue will not be evaluated in the EIR.

C. Would the project result in a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?

Potential Significant Impact: The EIR will evaluate temporary noise impacts to sensitive receptors generated by the Project.

D. For a project located within an airport land use plan or where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

E. For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?

Less than Significant Impact: According to the County of Riverside General Plan, the project area is impacted with elevated noise levels from the Corona
Airport. However the Project does not involve the construction of any sensitive land uses that would be significantly impacted by aircraft noise. This issue will not be evaluated in the EIR.

**F. Would the project expose persons to or generation of excessive groundborne vibration or groundborne noise levels?**

**Potential Significant Impact:** The construction and operation of the Project will involve the use of heavy equipment. The EIR will evaluate potential vibration impacts associated with the construction and operation of the Project.

**4.12 Population/Housing**

**A. Would the project induce substantial population growth in an area, either directly or indirectly?**

**No Impact:** The Project will not involve the extension of new infrastructure into undeveloped areas that will induce new population growth in the project area. This issue will not be evaluated in the EIR.

**B. Would the project displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?**

**C. Would the project displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?**

**No Impact:** The Project will not displace existing housing or people and will not necessitate the need for replacement housing. This issue will not be evaluated in the EIR.

**4.13 Public Services**

**A. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for fire protection police protection, schools, parks or other public facilities.**

**No Impact:** The Project is a sediment management demonstration project. The implementation of the Project will not generate any long term demands for additional public services beyond the current levels of demand within the project area or increase emergency response times to the project area. This issue will not be evaluated in the EIR.
4.14 Recreation

A. Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

Potential Significant Impact: The proposed Santa Ana River Trail is planned within the project area. The land use section of the EIR will evaluate if the construction and operation of the Project will result in conflicts with the alignment and/or use of the trail.

B. Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment.

No Impact: The Project does not include any recreational facility or component and will not directly or indirectly increase the demand for, or use of, existing neighborhood parks or other recreational facilities. This issue will not be evaluated in the EIR.

4.15 Transportation/Traffic

A. Would the project be in conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrians and bicycle paths and mass transit?

Less than Significant Impact: The Project is a short-term demonstration project that will conclude in five years. Therefore, there will not be long-term traffic trips generated by the Project. Therefore, the EIR will not evaluate potential long term traffic impacts within the project area.

The majority of the traffic generated from the Project will be onsite construction related traffic. However, the Project will generate some off site construction related traffic trips associated with the mobilization and demobilization of construction equipment, hauling of green waste, and daily worker traffic. The table below identifies the daily offsite roundtrip traffic trips generated by each construction phase of the project. No overlapping of construction phases will occur.
Table 2: Construction Equipment Vehicle Trips

<table>
<thead>
<tr>
<th>Phase</th>
<th>Total Daily Roundtrip Traffic/Vehicle Type</th>
<th>Number Days</th>
<th>Time Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Construction Monitoring</td>
<td>10 Total Trips/Five Light Trucks, 2 Trips per Truck.</td>
<td>30 days</td>
<td>Peak Traffic Period</td>
</tr>
<tr>
<td>Site Preparation</td>
<td>12 Total Trips/Four Light Trucks, 3 Trips per Truck. 35 Total Trips/Five 10-Wheel Trucks, 7 Trips per Truck</td>
<td>30 days</td>
<td>Non-Peak Traffic Period</td>
</tr>
<tr>
<td>Infrastructure Construction</td>
<td>3 Trips/Three 18-wheel Trucks, 6 Trips per Truck. 2 Trips/Two 10-Wheel Trucks, 1 Trip per truck. 2 Trips/ One light Truck, 2 trips per Truck</td>
<td>30 days</td>
<td>Non-Peak Traffic Period</td>
</tr>
<tr>
<td>Sediment Removal</td>
<td>4 Trips/Two Light Trucks, 2 Trips per Truck.</td>
<td>188 days</td>
<td>Peak Traffic Period</td>
</tr>
<tr>
<td>Sediment Re-Entrainment</td>
<td>4 Trips/ Two Light Trucks, 2 Trips per Truck.</td>
<td>30 days</td>
<td>Peak Traffic Period</td>
</tr>
<tr>
<td>Monitoring, Site Restoration</td>
<td>18 Trips/ Six Light Trucks, 3 Trips per Truck.</td>
<td>120 days</td>
<td>Peak Traffic Period</td>
</tr>
</tbody>
</table>

As shown above each of the different phases of the Project will generate a minimal amount of roundtrip traffic trips. The majority of the traffic trips generated by the Project will occur during non-peak hour traffic periods. The amount of daily traffic occurring during peak hour periods is relatively minor and will not cause the closure of any roadway segments or reduce the level of service of any roadway segments or intersections within the project area. The EIR will not evaluate short-term impacts on project area roadway segments and intersections.

B. Would the project be in conflict with an applicable congestion management program, including but not limited to level of service standards and travel demand measures, or other standards established by the County’s congestion management agency for designated roads or highways?

Less Than Significant Impact The Project is a short-term demonstration project that will conclude in five years. Therefore, there will not be long-term traffic trips generated by the Project. The project will generate off site construction related traffic trips associated with the mobilization and demobilization of construction equipment, hauling of green waste, and worker traffic. As shown in the table above, each of the different phases of the Project will generate a minimal amount...
of roundtrip traffic trips. The majority of the traffic trips generated by the Project will occur during non-peak hour traffic periods. The amount of daily traffic occurring during peak hour periods is relatively minor and will not reduce the level of service of any roadway segments or intersections and will not be in conflict with County of Riverside Congestion Management Program. This issue will not be evaluated in the EIR.

C. Would the project result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?

No Impact. Implementation of the Project will not increase the level of air traffic within the regional area. The Project does not include any component that will encroach into navigable air space causing a change to air traffic patterns. This issue will not be evaluated in the EIR.

D. Would the project increase hazards to a design feature or incompatible uses or equipment?

Potential Significant Impact: Regional access to the project area will be provided from State Route 91 and State Route 71. Local access to the project area will be provided from Serfas Club and Auto Center Drive or from Lincoln Avenue and Railroad Street. Presently, the City of Corona is constructing a rail road grade separation project at Auto Center Drive BNSF Railroad Crossing. The construction operations for the grade separation project will reduce Auto Center Drive to one travel lane in each direction which could limit or prohibit truck traffic access into the project area. The EIR will discuss this potential impact and will include mitigation that will require that prior to construction of the Project, OCWD will coordinate with the City of Corona on the availability potential truck routes into the project area, required traffic control measures and truck hauling permits that might be needed for the Project.

E. Would the project result in inadequate emergency access?

Less than Significant Impact: The Project will not cause any road way closures that would inhibit emergency access into the project area. As part of the Project OCWD will ensure that emergency access is maintained at all times. This issue will not be evaluated in the EIR.

F. Would the project be in conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities or otherwise decrease the performance or safety of such facilities.
Less than Significant Impact: The Project will be implemented within the Prado Basin. The Project will have less than significant impacts on public transit systems within the project area. This issue will not be evaluated in the EIR.

4.16 Utilities/Service Systems

A. Would the project exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?

No Impact: Implementation of the Project will not generate any wastewater flows. Therefore, implementation of the Project will not exceed any treatment requirements established by the Regional Water Quality Control Board. This issue will not be evaluated in the EIR.

B. Would the project require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

No Impact: The Project does not involve construction of new water facilities, new wastewater treatment facilities, or the expansion of existing facilities. Therefore, implementation of the Project will not result in significant environmental impacts in regards to the construction of new water or wastewater treatment facilities or the expansion of existing facilities. This issue will not be evaluated in the EIR.

C. Would the project require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

No Impact: The Project will not require the construction of any new drainage facilities or require the expansion of any existing drainage facilities. Therefore, implementation of the Project will not result in significant environmental impacts in regards to the construction of new storm drain facilities or the expansion of existing storm drain facilities. This issue will not be evaluated in the EIR.

D. Are sufficient water supplies available to serve the project from existing entitlements and resources or new or expanded entitlements needed?

No Impact: The Project will remove sediment from the Prado Basin and re-entrain it back into the Santa Ana River. The Project will utilize existing flows of the Santa Ana River to re-entrain the sediment. The implementation of the Project will not require new water supplies. This issue will not be evaluated in the EIR.

E. Would the project result in the determination by the wastewater treatment provider which serves or may serve the project that it has
adequate capacity to serve the project’s projected demand in addition to the providers existing commitments.

**No Impact.** The construction and operation of the Project will not generate any wastewater treatment demands or involve the operation of any facilities that involve treated wastewater. Therefore, the implementation of the Project will not have any adverse impact on the capacity of wastewater treatment providers to the area. This issue will not be evaluated in the EIR.

**F. Is the project served by a landfill with sufficient permitted capacity to accommodate the project solid waste disposal need?**

**Less than Significant Impact:** Implementation of the Project will not generate long term demands for solid waste disposal, beyond the exiting level of demands. This issue will not be evaluated in the EIR.

**G. Would the project comply with federal, state and local statutes and regulations related to solid waste?**

**Less than Significant Impact.** The Project will not involve any activities that will be conflict with federal, state and local statutes and regulations related to solid waste disposal. This issue will not be evaluated in the EIR.

**MANDATORY FINDINGS OF SIGNIFICANCE**

**A. Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory.**

**Potentially Significant Impact:** The project area is known to contain special status plant and wildlife species, sensitive vegetation communities and sensitive cultural resources. The EIR will evaluate the potential for special status species and sensitive cultural resources to occur within the project area and the potential for the construction and operation of the Project to adversely impact them.

**B. Does the project have impacts that are individually limited but cumulatively considerable?**

**Potentially Significant Impact:** The construction and operation of the Project could generate air quality emissions that could result in significant cumulative air quality impacts. The EIR will evaluate potential cumulative air quality impacts and other potential cumulative impacts that might be associated with the construction and operation of the Project.
C. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

Potentially Significant Impact: The Project has the potential to result in significant impacts in regards to air quality, water quality and noise which could have adverse impacts on human beings. The EIR will evaluate the potential for impacts to the environment to result in adverse effects to human beings.
SECTION 5.0 REFERENCES

California Department Fish and Game Natural Diversity Database, Accessed April 2013.

California Department of Transportation (Caltrans). Scenic Highways Program Web Site Access, April 2013.


California Environmental Quality Act, State CEQA Guidelines, 2012

California Geologic Survey Seismic Hazard Zone Map Prado Dam Quadrangles, Accessed April 2013.

California Native Plant Society Inventory of Rare and Endangered Plants Database, Accessed April 2013.

City of Corona General Plan

County Riverside General Plan Web Site Access April 2013.

County of Riverside Noise Ordinance
