

**ORANGE COUNTY WATER DISTRICT  
GROUNDWATER RECHARGE FACILITIES  
MAINTENANCE PLAN  
INITIAL STUDY/NOTICE OF PREARATION  
ENVIRONMENTAL IMPACT REPORT**

**Prepared By**

**Orange County Water District  
18700 Ward Street  
Fountain Valley, CA 92708  
Contact: Daniel Bott**

**January 2012**





**NOTICE OF PREPARATION  
ENVIRONMENTAL IMPACT REPORT  
ORANGE COUNTY WATER DISTRICT GROUNDWATER  
RECHARGE FACILITIES MAINTENANCE PLAN**

This is to inform the general public that the Orange County Water District is the Lead Agency and will be preparing an environmental impact Report to evaluate potential environmental effects associated with implementation of the Orange County Water District Groundwater Recharge Facilities Maintenance Plan. The maintenance plan includes a series of routine maintenance activities to maintain OCWD's existing groundwater recharging facilities. The project description and potential environmental effects of the maintenance plan are described in detail in this initial study. At this time we are requesting your comments on the scope of the proposed project and content of the environmental information contained in the initial study prepared for the proposed project. .

**Notice of Public Scoping Meeting**

A public scoping meeting is scheduled for February 9, 2012 at 10 a.m. The one hour meeting will be held at the Orange County Water District at 18700 Ward Street, Fountain Valley, CA 92708. The public scoping meeting will provide members of the public and agencies with an opportunity to provide comments regarding the scope of the EIR.

Due to time limits mandated by state law, your response must be submitted no later than 30 days after receipt of this notice. The public comment period for the project will extend from January 30, 2012 to 5 p.m. on February 29, 2012. Please send your comments to Daniel Bott, Principal Planner, Orange County Water District at the address shown below.

Daniel Bott  
Principal Planner  
Orange County Water District  
18700 Ward Street  
Fountain Valley, CA 92708  
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## **SECTION 1.0 INTRODUCTION**

### **1.1 Purpose of Initial Study**

This document is an Initial Study that evaluates the potential environmental impacts associated with the implementation of the Orange County Water District Groundwater Recharge Facilities Maintenance Plan. 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. The environmental analysis provided in the Initial Study is based on Orange County Water District Environmental Checklist Form. The Checklist Form is consistent with Initial Study requirements provided in Section 15063 of the State CEQA Guidelines.

Based on the environmental review contained in this Initial Study it has been determined that implementation of the Orange County Water District Groundwater Recharge Facilities Maintenance Plan would 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 proposed 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 Proposed Project**

The proposed project is Maintenance Plan that provides for the long-term maintenance of the Orange County Water District (OCWD) groundwater recharge facilities.

### **2.2 Background**

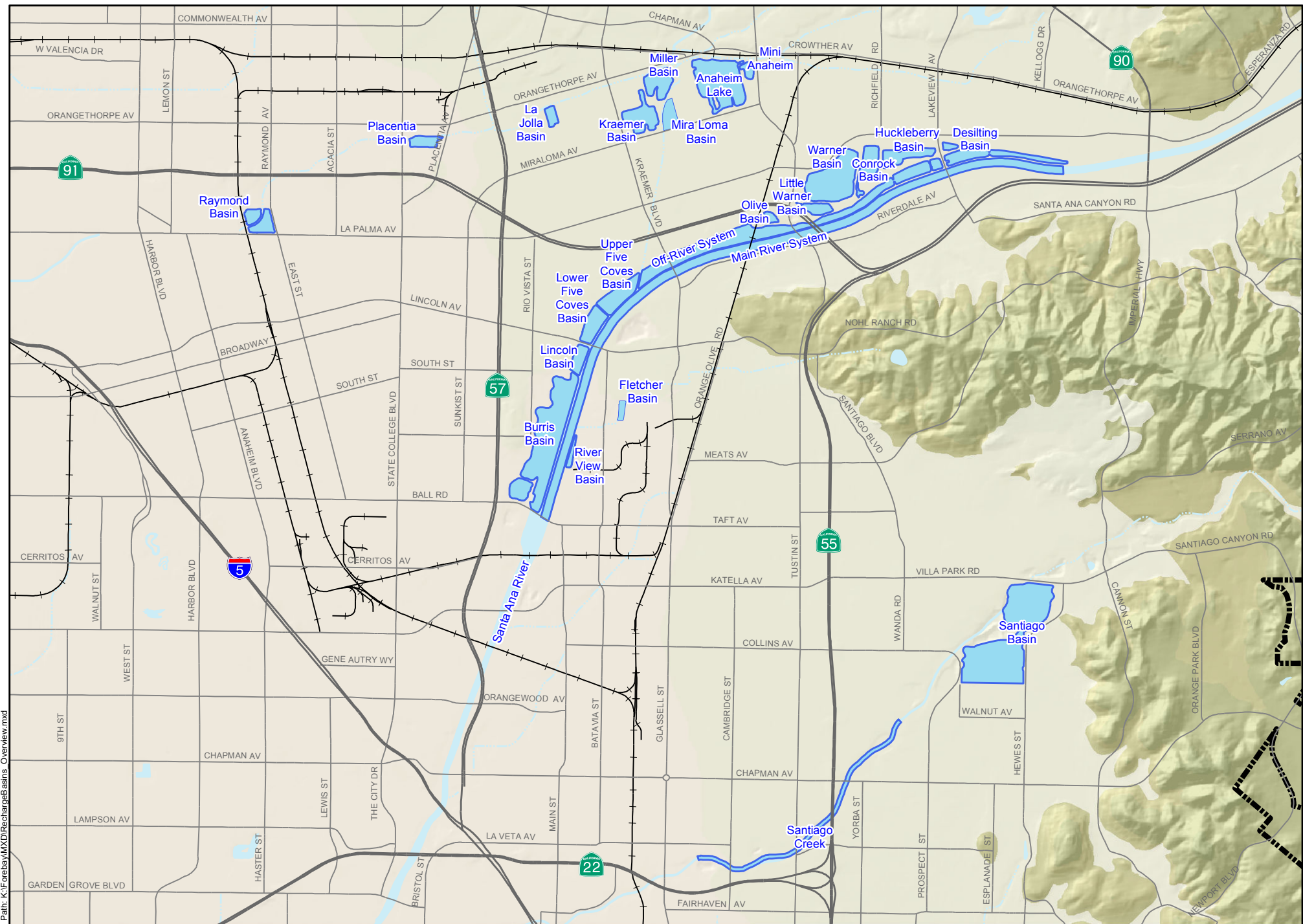
The OCWD was formed by a special act of the California Legislature in 1933 to manage the groundwater basin that underlies north and central Orange County. The groundwater basin provides underground water supplies to 23 cities and over 2.3 million persons in northern and central Orange County. One of the roles of OCWD is to replenish the groundwater basin to ensure adequate supplies are available for the future.

The Santa Ana River is the primary source of water to recharge the Orange County Groundwater Basin. Since 1933, OCWD has been diverting water from the Santa Ana River for groundwater recharge. Surface flows are diverted by two rubber dams into a series of recharge basins whose bottoms and sidewalls allow for percolation into the groundwater basin. The other sources of water to recharge the Orange County Groundwater Basin are recycled water from the OCWD Groundwater Replenishment System (GWRS) and imported water from northern California and the Colorado River that is pumped by pipe to the recharge basins.

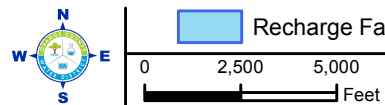
The ongoing routine maintenance activities that are needed to maintain OCWD groundwater recharge facilities are a critical component of the groundwater management operations. The percolation rate and how it changes through time is the main factor in determining the effectiveness of the recharge facilities. Higher percolation rates allow a greater quantity of water to infiltrate into the groundwater basin. Percolation rates tend to decrease with time and the recharge basin develops a thin clogging layer on the basin bottom. The clogging layer develops from fine grain sediment deposition and from biological growth. The percolation rates are restored by removing the clogging layer from the basins with heavy equipment such as dozers, scrapers and other equipment.

### **2.3 Project Area Setting**

The OCWD operates 24 groundwater recharge facilities in the cities of Anaheim and Orange and unincorporated Orange County. The recharge facilities' locations are shown on Figure 1 and are listed in Table 1.



Path: K:\Forebay\MXD\RechargeBasins\_Overview.mxd



Recharge Facility Areas

OCWD Boundary

**OCWD Recharge Basins**

**Figure 1**

**TABLE 1: OCWD GROUNDWATER RECHARGE FACILITIES**

<b>Facility</b>	<b>Size (Wetted Acres)</b>	<b>Location</b>	<b>USGS</b>	<b>Latitude/ Longitude</b>
Anaheim Lake	74.0	Tustin Ave. @ Miraloma Ave	Orange- T4S/R9W	33 51 58/ 117 50 51
Burriss Basin	99.2	Ball Road & SR 57	Orange T4S/R9W	33 49 31/ 117 52 13
Conrock Basin	19.6	Richfield Rd. @ La Palma Ave.	Orange- T4S/R9W	33 51 20/ 117 49 36
Five Coves Dam	32.2	Lincoln Ave. @ Kingsley St.	Orange T4S/R9W	33 50 27/ 117 51 38
Huckleberry Basin	21.7	Taylor St. @ La Palma Ave. La Palma	Orange- T4S/R9W	33 51 26/ 117 49 17
Kraemer Basin	29.0	Miraloma Ave. @ Kraemer Blvd.	Orange T4S/R9W	33 51 37/ 117 51 27
La Jolla Basin	5.6	La Jolla St. @ Red Gum St.	Orange T3S/R9W	33 51 38/ 117 52 09
Lincoln Basin	8.3	Lincoln Ave. @ Andalusia Ave.	Orange T4S/R9W	33 55 02/ 117 51 55
Little Warner Basin	9.8	La Palma Ave. @ Van Buren	Orange- T4S/R9W	33 51 02/ 117 50 03
Miller Basin	20.9	Miraloma Ave. @ Miller St.	Orange T4S/R9W	33 51 52/ 117 51 21
Mini Anaheim Lake	5.5	Tustin Ave. @ Miraloma Ave.	Orange T4S/R9W	33 51 59/ 117 50 35
Off-River Channel	64.4	Tustin Ave. @ SR91	Orange- T4S/R9W	33 51 12/ 117 49 31
Olive Basin	4.6	SR-91 @ Tustin Ave.	Orange T4S/R9W/S5	33 50 59/ 117 50 25
Placentia Basin	6.9	State College @ Orangethorpe	Anaheim T4S/R10W	33 51 28/ 117 53 10
Raymond Basin	13.3	La Palma Street/East St.	Anaheim T4S/R10W	33 50 55/ 117 54 29
Riverview Basin	3.5	Batavia Street @ Fletcher Ave.	Orange T4S/R10W	33 49 26/ 117 51 58
Santa Ana River Reach 2	96.2	Imperial Highway to SR 91	Orange T3,4S/R9W	33 51 23/ 117 48 49
Santa Ana River Reach 3	73.2	SR 91 to Lincoln Ave.	Orange T4S/R9,10W	33 50 38/ 117 51 08
Santa Ana River Reach 4	50.8	Lincoln Ave. to Ball Road	Orange T4S/R9,10W	33 49 29/ 117 52 00
Santa Ana River Reach 5	52.6	Ball Road to Orangewood Ave.	Anaheim T4S/R10W	33 47 59/ 117 52 38
Santa Ana River Reach 6	18.79	Orangewood Ave. to Chapman Ave.	Anaheim T4S/R10W	33 47 28 117 52 51

Facility	Size (Wetted Acres)	Location	USGS	Latitude/ Longitude
Santiago Basin	166.2	Prospect Ave. @ Bond Street	Orange T4/R9/S16	33 48 15/ 117 48 23
Santiago Creek Reach 1	2.7	Chapman Ave. Crossing	Orange-T4S/R9W/	33 47 22/ 117 49 41
Santiago Creek Reach 2	4.9	SR 55 to Tustin St.	Orange-T4S/R9W	33 46 55/ 117 50 01
Santiago Creek Reach 3	2.6	Cambridge St. to Schaffer St.	Orange – T4S/R9W	33 46 44/ 117 50 49
Warner Basin	68.4	La Palma Ave. @ Van Buren	Orange-T4S/R9W	33 51 14/ 117 49 54
Weir Pond 1	5.4	Imperial Hwy. @ La Palma Ave.	Orange-T4S/R9W	33 51 24/ 117 48 11
Weir Pond 2	6.4	Imperial Hwy. @ La Palma Ave.	Orange-T4S/R9W	33 51 26/ 117 48 09
Weir Pond 3	15.7	Taylor St. @ La Palma Ave.	Orange T4S/R9W	33 51 24/ 117 48 56
Weir Pond 4	4.0	Taylor St. @ La Palma Ave.	Orange-T4S/R9W	33 51 21/ 117 49 05

## 2.4 Proposed Covered Maintenance Plan Activities

The OCWD Groundwater Recharge Facilities Maintenance Plan identifies ongoing routine maintenance activities that are needed to maintain OCWD's existing groundwater recharge facilities. The ongoing routine maintenance activities are referred to as Covered Maintenance Activities. For each Covered Maintenance Activity a series of Avoidance and Minimization Measures have been identified to avoid and minimize impacts to the environment. The following is a description of the Covered Maintenance Activities and the Avoidance and Minimization Measures included in the OCWD Groundwater Recharge Facilities Maintenance Plan.

### ***Sediment/Disturbance Removal***

The OCWD Groundwater Recharge Facilities Maintenance Plan authorizes the disturbance and removal of sediment from OCWD recharge basin facilities. The sediment disturbance and removal routine maintenance activity is permitted under a dry condition or wet condition. Under the dry condition, the recharge facilities are drained and dried out, and sediment and silt on the bottom and side walls of the basins are broken-up and/or scraped and removed by heavy construction equipment. Under a wet condition, a submerged cleaning device vacuums silt from the basin bottom simultaneous with its accumulation. This type of system would operate while the basin remains full and is percolating water through its bottom. The silt removed from the wet system is transferred to a small pit located adjacent to the recharge basin.

### **Avoidance/Minimization Measures**

- The Permittee shall ensure that prior to conducting sediment disturbance and removal maintenance activities a qualified biologist shall survey the site to confirm if nesting birds are present. If active nests are present, all sediment disturbance and removal maintenance activities in the immediate area of the nest shall cease and 100 foot buffer shall be maintained between the nest and sediment disturbance and removal maintenance activity. In the event a 100-foot buffer can not be maintained, the nest shall be relocated by a qualified biologist to a location at least 100 feet from the maintenance activity. The relocation of the nest can only occur if it can be ensured that nest would not be abandoned. In the event the 100 foot buffer can not be maintained and the nest can not be relocated, sediment disturbance and removal activities within 100 feet of the nest shall cease until the nest is no longer active.
- If a listed species is nesting, sediment disturbance and removal activities at the site of the nest shall cease and US Fish and Wildlife Service and California Department of Fish and Game shall be notified for further coordination.
- The Permittee shall actively implement Best Management Practices (BMPs) to prevent erosion and the discharge of sediment into downstream receiving water bodies. BMPs shall be monitored daily and repaired if necessary to ensure maximum erosion and sediment control.
- The Permittee shall ensure that all equipment operating within or adjacent to ground water recharge facilities is maintained daily to prevent leaks.
- The Permittee shall dispose all sediment removed from recharge facilities in legal manner where it does not negatively affect sensitive habitat.
- Existing access ways and ramps shall be used to access the basins to avoid impacts to native vegetation that is intended to be maintained.

### ***Vegetation Removal***

The OCWD Groundwater Recharge Facilities Maintenance Plan authorizes native and non-native vegetation removal activities along the banks of existing recharge basin facilities and around existing water conveyance structures. A combination of hand tools, mechanical vegetation cutters and heavy equipment are permitted to be used to remove vegetation.

### **Avoidance/Minimization Measures**

- The Permittee to the maximum extent should not conduct vegetation removal activities from March 15 to September 15 to avoid impacts to nesting birds. If project activities cannot be avoided in vegetated areas during the period of March 15 through September 15, the Permittee shall have a qualified biologist survey the vegetation to confirm if active nests

are present prior to commencement of vegetation removal activities. The surveys shall be conducted at the appropriate time of day during the breeding season and shall occur no longer than two days prior to vegetation removal and/or disturbance. If active nests are present, a minimum 100 foot buffer shall be established between the nest and the vegetation removal activities.

- The Permittee shall flag or otherwise identify native vegetation within habitat maintenance areas to the maximum extent possible to avoid removing native vegetation when performing non-native vegetation removal.
- The Permittee shall utilize hand tools to the maximum extent possible when conducting vegetation removal that is adjacent to native habitat. The Permittee shall use mechanical vegetation cutters and shredders, heavy equipment, and/or herbicides only when necessary to remove large areas vegetation or types of vegetation that are not responsive to hand removal.
- The Permittee, to the maximum extent possible, shall phase the removal of vegetation in such a manner as to encourage birds and other wildlife to toward other habitat.
- The Permittee shall ensure that all vegetation removed shall be disposed of in a legal manner where it does not negatively affect sensitive habitat.
- The Permittee shall ensure that any herbicides in jurisdictional areas shall be registered by the California Department of Pesticide Regulation for aquatic use in California.

### ***Maintenance and Repair of Existing Access Roads and Ramps***

The OCWD Groundwater Recharge Facilities Maintenance Plan authorizes the maintenance and repair of existing dirt access roads and ramps that provide access into OCWD recharge facilities. Heavy equipment such as dozers and scrapers are permitted to be used to re-grade and repair access roads and ramps.

### **Avoidance/Minimization Measures**

- The Permittee shall actively implement BMPs to prevent erosion and the discharge of sediment into downstream receiving waters. BMPs shall be monitored daily and repaired if necessary to ensure maximum erosion and sediment control.
- The Permittee shall ensure that all equipment operating within or adjacent to groundwater recharge facilities be checked and maintained daily to prevent leaks.

### ***Maintaining Existing Water Conveyance Structures***

The OCWD Groundwater Recharge Facilities Maintenance Plan authorizes maintenance of existing water conveyance structures, including culverts, transfer tubes, inlet and outlet structures, weirs, flumes, sluice gates, trash racks, rubber dams, rip rap, grade stabilizers, sump pumps and valves. Maintenance activities would not include the construction of new water conveyance structures or the replacement of existing structures that would involve a larger construction footprint.

#### **Avoidance/Minimization Measures**

- The Permittee shall flag or otherwise identify native vegetation adjacent to existing water conveyance structures to avoid impacts to native vegetation when maintaining existing water conveyance structures.
- The Permittee shall actively implement BMPs to prevent erosion and the discharge of sediment into downstream receiving waters during project activities. BMPs shall be monitored daily and repaired if necessary to ensure maximum erosion and sediment control.
- The Permittee shall ensure that all equipment operating within or adjacent to ground water recharge basin is checked and maintained daily to prevent leaks.

### ***Existing Earthen Dike and Levee Repair***

The OCWD Groundwater Recharge Facilities Maintenance Plan authorizes the repair of existing earthen dikes and levees, including replacement after storm events. Heavy construction equipment would be permitted to replace and repair earthen dikes and levees.

#### **Avoidance/Minimization Measures**

- The Permittee shall ensure that prior to conducting earthen dike and levee repair maintenance operations, a qualified biologist shall survey the site to confirm if nesting birds are present. If active nests are present, all earthen dike and levee repair maintenance activities in the immediate area of the nest shall cease and a 10-foot radius, one-foot high sand berm shall be constructed around the nest and a 100 foot buffer shall be maintained between the sand berm and the earthen dike and levee repair activities. In the event a 100-foot buffer can not be maintained, the nest shall be relocated by a qualified biologist to a location at least 100 feet away from the maintenance activity. The relocation of the nest can only occur if it can be ensured that nest would not be abandoned. In the event the 100 foot buffer can not be maintained and the nest can not be relocated, earthen dike and levee repair maintenance activities at the site of the nest shall cease until the nest is no longer active.

- If a listed species is nesting, earthen dike and levee repair activities at the site of the nest shall cease and USFWS and CDFG shall be notified for further coordination.
- The Permittee shall ensure that all equipment operating within or adjacent to groundwater recharge facilities shall be checked and maintained daily to prevent leaks.

## 2.5 Implementation of Covered Maintenance Activities

The proposed Covered Maintenance Activities would be implemented at OCWD groundwater recharge facilities depending on the maintenance needs of the basin. Table 2 provides listing of the proposed Covered Maintenance Activities that would be implemented at OCWD groundwater recharge facilities.

**TABLE 2: COVERED MAINTENANCE ACTIVITIES**

Basin	Sediment Disturbance/ Removal	Vegetation Removal	Maintain Access Ramps	Maintain Existing Structures	Maintain Dikes and Levees
Anaheim Lake	X	X	X	X	
Burriss Basin	X		X	X	X
Conrock Basin	X		X	X	
Five Coves Basin	X		X	X	
Huckleberry Basin	X		X	X	
Kraemer Basin	X	X	X	X	
La Jolla Basin	X		X	X	
Lincoln Basin	X		X	X	
Little Warner Basin	X			X	
Miller Basin	X		X	X	
Mini Anaheim Lake	X		X	X	
Off-River Channel	X		X	X	
Olive Basin	X		X	X	
Placentia Basin	X			X	
Raymond Basin	X			X	
Riverview Basin	X		X	X	
Santa Ana River			X	X	X
Santiago Basin	X		X	X	
Santiago Creek	X				
Warner Basin	X	X	X	X	
Weir Pond 1	X	X		X	
Weir Pond 2	X	X		X	
Weir Pond 3	X	X		X	
Weir Pond 4	X	X		X	

## **2.6 Lead Agency**

Pursuant to Section 15367 of the State CEQA guidelines, the Orange County Water District (OCWD) is the Lead Agency and has the principal responsibility of approving and implementing the proposed Orange County Water District Groundwater Recharge Facilities Maintenance Plan.

## **2.7 Project Permits and Approvals**

The following are approvals that would be required to implement the Orange County Water District Groundwater Recharge Facilities Maintenance Plan.

- Orange County Water District – Maintenance Plan Approval
- US Army Corps of Engineers – Approval of Regional General Permit
- California Department of Fish and Game – Approval of Long Term Maintenance Plan Streambed Alteration Agreement
- Regional Water Quality Control Board – 401 Water Quality Certification

## **2.8 Environmental Effects to be Analyzed in EIR**

The following issues will be analyzed in the EIR;

- Air Quality Impacts
- Biological Resource Impacts
- Cultural Resource Impacts
- Water Quality Impacts
- Noise impacts

## **2.9 Alternative to Proposed Project**

The EIR will describe a range of reasonable alternatives to the proposed project which would feasibly attain most of the objectives of the project but would avoid or substantially lessen potentially significant impacts associated with implementation of the proposed project.

## **SECTION 3.0 ENVIRONMENTAL CHECK LIST EVALUATION**

The following is the OCWD Environmental Checklist Form that was prepared for the Orange County Water District Groundwater Recharge Facilities Maintenance Plan. The Environmental Checklist Form is consistent with Environmental Checklist form provided in Appendix G of the CEQA Guidelines.




# Environmental Checklist

## For CEQA Compliance

- I. **Project Title:** Orange County Water District Groundwater Recharge Facilities Maintenance Plan
- II. **Lead Agency Name and Address:** Orange County Water District  
18700 Ward Street  
Fountain Valley, CA 92708
- III. **Project Contact:** Daniel Bott
- IV. **Location:** Cities of Anaheim, Orange, and unincorporated Orange County
- V. **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 not previously discussed. A SUBSEQUENT EIR shall be prepared.

  
\_\_\_\_\_  
Signature

  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Printed Name



# 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.

- |   |  |
|---|--|
| <input type="checkbox"/> Aesthetics                           | <input type="checkbox"/> Historic Demolition                           |
| <input type="checkbox"/> Agricultural Resources               | <input type="checkbox"/> Historic Project Review                       |
| <input checked="" type="checkbox"/> Air Quality               | <input checked="" type="checkbox"/> Noise                              |
| <input checked="" type="checkbox"/> Biological Resources      | <input type="checkbox"/> Population / Housing                          |
| <input checked="" type="checkbox"/> Cultural Resources        | <input type="checkbox"/> Public Services                               |
| <input type="checkbox"/> Geology / Soils                      | <input type="checkbox"/> Recreation                                    |
| <input type="checkbox"/> Hazards and Hazardous Materials      | <input type="checkbox"/> Transportation / Traffic                      |
| <input checked="" type="checkbox"/> Hydrology / Water Quality | <input type="checkbox"/> Utilities / Service Systems                   |
| <input type="checkbox"/> Mineral Resources                    | <input checked="" type="checkbox"/> Mandatory Findings of Significance |
| <input type="checkbox"/> General Plan Amendment               |  |



# Environmental Checklist

## For CEQA Compliance

### 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

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<b>V. Issues &amp; Supporting Information Sources</b>				
<b>I. Aesthetics</b> – Would the project:				
a) Have a substantial adverse effect on a scenic vista?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Damage scenic resources, including but not limited to, trees, rock outpourings and historic buildings within a state highway?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Substantially degrade the existing visual character or quality of the site and its surroundings?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>II. AGRICULTURAL AND FOREST RESOURCES:</b> 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.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with existing zoning for agricultural use or a Williamson Contract?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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))	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Result in the loss of forest land or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



# Environmental Checklist

## For CEQA Compliance

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<b>V. Issues &amp; Supporting Information Sources</b>				
<b>III. Air Quality</b> – 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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Violate any stationary source air quality standard or contribute to an existing or projected air quality violation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Expose sensitive receptors to substantial pollutant concentrations?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Create objectionable odors affecting a substantial number of people?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>IV. Biological Resources</b> – 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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Conflict with any local policies or ordinances protecting biological resources, such as tree preservation policy or ordinance?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



# Environmental Checklist

## For CEQA Compliance

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<b>V. Issues &amp; Supporting Information Sources</b>				
Conservation Plan, or other approved local, regional, or state habitat conservation plan?				
<b>V. Cultural Resources</b> – Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Cause a substantial adverse change in the significance of a unique archaeological resource pursuant to define Section 15064.5?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Directly or indirectly disturb or destroy a unique paleontological resource or site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Disturb any human remains, including those interred outside of formal cemeteries?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>VI Geology and Soils</b> – 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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Strong seismic ground shaking?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Seismic-related ground failure, including liquefaction?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Landslides?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Would the project result in substantial soil erosion or the loss of topsoil?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) 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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>VII. GREENHOUSE GAS EMISSIONS</b> — Would the project?				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



# Environmental Checklist

## For CEQA Compliance

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<b>V. Issues &amp; Supporting Information Sources</b>				
impact on the environment?				
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>VIII. HAZARDOUS AND HAZARDOUS MATERIALS – Would the project:</b>				
a) Create a significant hazard to the public or the environment through the routine transport, use or disposal of hazardous materials?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substance or waste within one-quarter mile of an existing or proposed school?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) 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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>VIX. HYDROLOGY AND WATER QUALITY – Would the project:</b>				
a) Violate any water quality standards or waste discharge requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>



# Environmental Checklist

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	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<b>V. Issues &amp; Supporting Information Sources</b>				
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)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f) Otherwise substantially degrade water quality?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
i) 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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(j) Inundation by seiche, tsunami, or mudflow?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>X. LAND USE AND PLANNING</b> – Would the project:				
a) Physically divide an established community?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Conflict with any applicable habitat conservation plan or natural community conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>



# Environmental Checklist

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	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<b>V. Issues &amp; Supporting Information Sources</b>				
<b>XI. MINERAL RESOURCES</b> – Would the project:				
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>XII. NOISE</b> – Would the project result in:				
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without project?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>XIII. POPULATION AND HOUSING</b> – 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)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>XIV. PUBLIC SERVICES</b>				
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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



# Environmental Checklist

## For CEQA Compliance

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<b>V. Issues &amp; Supporting Information Sources</b>				
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Police protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Schools?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Parks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other public facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>XV. RECREATION</b>				
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>XVI. TRANSPORTATION/TRAFFIC Would the project:</b>				
a) 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, pedestrian and bicycle paths, and mass transit?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Substantially increase hazards to a design feature (e.g. sharp curves or dangerous intersections) or incompatible uses (e.g. farm equipment)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Result in inadequate emergency access?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>



# Environmental Checklist

## For CEQA Compliance

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<b>V. Issues &amp; Supporting Information Sources</b>				
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>XVII. UTILITIES AND SERVICE SYSTEMS – Would the project:</b>				
a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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 environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Are sufficient water supplies available to serve the project from existing entitlements and resources or are new or expanded entitlements needed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) 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 provider's existing commitments?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Is the project served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Comply with federal, state and local statutes and regulations related to solid waste?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>XVIII. MANDATORY FINDINGS OF SIGNIFICANCE –</b>				
a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a 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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Does the project have impacts that are individually limited but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



# Environmental Checklist

## For CEQA Compliance

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	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<p><b>V. Issues &amp; Supporting Information Sources</b>            are considerable when viewed in connection with the effects of past projects, effects of other current projects and the effects of probable future projects).</p>				
<p>c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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 Water District Groundwater Recharge Facilities Maintenance Plan.

### 4.1 Aesthetics

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

**Less than Significant Impact.** According to the City of Anaheim and City of Orange General Plans there are no designated scenic vistas at any of OCWD existing groundwater recharge facilities. Both Cities General Plans do provide policies that encourage the conservation of views of the Santa Ana River, Santiago Creek and some of OCWD's recharge basins. Implementation of the proposed groundwater recharge facilities maintenance plan would not result in any long-term aesthetic impacts at any of OCWD recharge facilities. However, periodic maintenance activities conducted as part of the groundwater recharge facilities maintenance plan could occur within the public viewshed of some segments of the Santa Ana River Regional Biking, Riding and Hiking Trail, Santiago Creek Trail and from Burris Park. Existing views would temporary be replaced with construction equipment and maintenance activity. In many instances the proposed maintenance activities would below grade and outside of public view. Additionally, the maintenance activities would occur over a relatively short period of time and frequency and any disruption of views would be considered a less than significant impact. This issue will not be evaluated in the EIR.

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

**Less than significant impact.** According to the California Department of Transportation Scenic Highways Program, the closest designated scenic highway within the project area would be the segment of State Route 91 east of State Route 55. Implementation of the proposed groundwater recharge facilities maintenance plan would not result in any long-term aesthetic impacts to views along SR-91. Along this segment of SR-91, some areas of the Santa Ana River and to a lesser extent OCWD Off-River Channel could be visible and there is dome potential that the proposed maintenance activities could be within the pucliv viewshed. The periodic view of maintenance activities occurring in the Santa Ana River and within the Off River Channel would be short term nature and potential viewshed impacts would be considered less than significant. This issue will not be evaluated in the EIR.

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

**Less Than Significant Impact.** The proposed maintenance activities included in groundwater recharge facilities maintenance plan would not result in any long term aesthetic impacts. The proposed maintenance activities would occur only a few times a year for a relatively short period of time. The temporary aesthetic impacts from the maintenance activities would not substantially degrade the visual character of the sites or surrounding area and the potential impact would be considered to be less than significant. This issue will not be evaluated in the EIR.

**D. Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area.**

**Less than Significant Impact.** Implementation of the proposed groundwater recharge facilities maintenance plan would not permanently introduce new sources of light and glare in the project area. All of the proposed maintenance activities would be conducted during the day and there would be no need for onsite lighting. The proposed maintenance activities could result in short term glare impacts from the reflection of the sun off of construction equipment. However, the potential glare impacts would be intermittent and would not be considered significant. This issue will not be evaluated in the EIR.

#### **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.** None of OCWD recharge facilities are designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance by the Farmland Mapping and Monitoring Program (FMMP) of the California Natural Resources Agency. Therefore, implementation of the proposed groundwater recharge facilities maintenance plan would not result in adverse impacts to any 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.** According to the City of Anaheim and City Orange Zoning Ordinances, none of OCWD existing recharge facilities are zoned for agricultural use. Additionally, according to the California Department of Conservation, none

of the existing recharge facilities are under a Williamson Act Contract. Therefore, implementation of the proposed groundwater recharge facilities maintenance plan would not be in conflict with any existing or planned agricultural 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.** According to the City of Anaheim and City Orange Zoning Ordinances, none of OCWD recharge facilities are zoned for agricultural use. Therefore, the proposed maintenance activities would not be in conflict with existing zoning regulations or cause a change of zone of existing forest or timberlands. 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?**

**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?**

**No Impact.** The proposed project involves the implementation of a groundwater recharge facilities maintenance plan to maintain OCWD's existing groundwater recharge facilities. None of the existing recharge facilities are forest lands. Therefore, the proposed maintenance activities conducted at these facilities would not result in the loss of forest land, or convert forest lands to non-forest lands. This issue will not be evaluated in the EIR.

### **4.3 Air Quality**

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 SCAQMD is responsible for controlling emissions primarily from stationary sources. Additionally, SCAQMD in coordination with the Southern California Association of Governments (SCAG) is also responsible for developing, updating and implementing the Air Quality Management Plan (AQMP) for the basin. Under CEQA the thresholds to determine a significant air quality impacts are based Appendix G of the CEQA Guidelines. The SCAQMD recommends that its quantitative air pollution thresholds be used to determine the significance of project emissions. If the lead agency finds that a project has the potential to exceed these air pollution thresholds, the project should be considered to have a significant impact.

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

**Potentially Significant Impact:** Implementation of the proposed groundwater recharge facilities maintenance plan could emit criteria air quality pollutant emissions that could exceed SCAQMD thresholds and result in potentially significant air quality impacts and 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?**

**Potentially Significant Impact.** Implementation of the proposed groundwater recharge facilities maintenance plan could emit criteria air quality pollutant emissions that could exceed SCAQMD thresholds and result in potentially significant regional 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?**

**Potentially Significant Impact.** Implementation of the proposed groundwater recharge facilities maintenance plan 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?**

**Potentially Significant Impact.** Implementation of the proposed groundwater recharge facilities maintenance plan 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?**

**Less than Significant Impact.** Diesel exhaust would be emitted during maintenance activities, which could be objectionable to some people. However, the emissions would disperse rapidly from the project site and would not reach an objectionable level and the potential impacts would be less than significant. This issue will not be analyzed 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?**

**Potentially Significant Impact.** Based on review of the California Department of Fish and Game Natural Diversity Database, there is some potential that special status species could present at some recharge facilities and that implementation of the proposed maintenance activities could result in potentially significant impacts if special status species are present. This issue will be evaluated in the EIR.

**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 Game or U.S. Fish and Wildlife Service?**

**Potentially Significant Impact.** Implementation of the proposed groundwater recharge facilities maintenance plan has the potential to impact areas that contain riparian habitat that is under the jurisdiction of the California Department of Fish and Game and US Army Corps Engineers. This issue will be evaluated in the EIR.

**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?**

**Potentially, Significant Impact.** Implementation of the proposed groundwater recharge facilities maintenance plan has the potential to impact areas that are classified as Wetland Waters of the US and State. This issue will be evaluated in the EIR.

**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?**

**Potentially Significant Impact.** Implementation of the proposed groundwater recharge facilities maintenance plan would not interfere with movement of migratory birds. However, there is the potential that migratory birds could nest within vegetation that is located along the banks of some recharge facilities, or on exposed shorelines or on levees in the Santa River and if the proposed maintenance activities occur in these areas when nesting birds are present there is the potential that significant direct impacts could occur. Additionally, construction noise associated with proposed maintenance activities could disrupt breeding patterns or cause birds to abandon their nest. This issue will be evaluated in the EIR.

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

**Less than Significant Impact.** Implementation of the proposed groundwater recharge facilities maintenance plan would not remove or impact any public trees or be in conflict with any local ordinances or programs that provide for the protection of biological resources. This issue will not be evaluated in the EIR.

- 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?**

**Potentially Significant Impact.** Some of OCWD's existing groundwater recharge facilities contain mitigation areas that are included in Habitat Management Plans approved by US Army Corps of Engineers, California Department of Fish and Game and US Fish and Wildlife Service. The EIR will evaluate if the implementation of the proposed groundwater recharge facilities maintenance plan would be in conflict with the approved Habitat Management Plans.

#### **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?**

**Potentially Significant Impact.** The region where OCWD groundwater recharge facilities are located is known to contain historic resources. Even though no historic resources are known to present at any of the recharge facilities, there is some potential that unknown historical resources could exist and implementation of the proposed groundwater recharge facilities maintenance plan could result in significant impacts to unknown historic resources that might be present. This issue will be evaluated in the EIR.

- 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?**

**Potentially Significant Impact.** The region where OCWD groundwater recharge facilities are located is known to contain archaeological resources. Even though no archaeological resources are known to be present at any of the recharge facilities, there is some potential that unknown archaeological resources could exist and implementation of the proposed groundwater recharge facilities maintenance plan could result in significant impacts to unknown historic resources that might be present. This issue will be evaluated in the EIR.

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

**Potentially Significant Impact.** Paleontological resources are known to occur within the regional area where OCWD groundwater recharge facilities are located. Even though no paleontological resources are known to occur on any of OCWD groundwater recharge facilities there is some potential that unknown paleontoglogical resources could exist and implementation of the proposed groundwater recharge facilities maintenance plan could result in significant impacts to unknown paleontoglogical resources that might be present.

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

**Potentially Significant Impact.** The region where OCWD groundwater recharge facilities are located is known to contain populations of Native American. Even though no human remains or burial grounds are known to be present at any of the recharge facilities, there is some potential that unknown burial grounds could exist and implementation of the proposed groundwater recharge facilities maintenance plan could result in significant impacts to unknown historic resources that might be present. This issue will be evaluated in the EIR.

#### **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?**

**No Impact.** The Seismic Hazards Mapping Act of 1991 established a statewide Seismic Hazard Mapping and Technical Advisory Program to assist cities and counties in protecting public health and safety from the effects of ground shaking, liquefaction and other seismic hazards caused by earthquakes. Additionally, the Alquist-Priolo Act directs the State Geologist to delineate regulatory zones that encompass surface traces of active faults that have the potential for future fault rupture. According to the California Geologic Survey Seismic Hazard Zone Map Orange and Anaheim Quadrangles, the area where OCWD groundwater recharge facilities are located is not within a designated Fault-Rupture Hazard Zone. Therefore, the potential for surface rupture impacts is unlikely. This issue will not be evaluated in the EIR.

**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?**

**Less Than Significant Impact.** The project area is located in a seismically active region that could be subject to seismic shaking during earthquakes generated from several surrounding faults in the region. The degree of shaking that could be felt would depend on the distance from the earthquake source and size of earthquake and type of subsurface material on which the site is situated.

The risk for seismic shaking impacts at OCWD groundwater recharge facilities would be similar to other areas in the southern California region and would be no greater with the implementation of the proposed groundwater recharge facilities maintenance plan. Additionally, there are no habitable buildings at OCWD existing groundwater recharge facilities that would pose risk to people during an earthquake. The potential risk of seismic shaking impacts resulting in loss, injury or death would be less than significant. This issue will not be evaluated in the EIR.

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

### ***Liquefaction***

**Less Than Significant Impact.** The California Geologic Survey Seismic Hazard Zone Map Orange and Anaheim Quadrangles indicate that portions of the project area are within a Liquefaction Hazard Zone. Implementation of the proposed groundwater recharge facilities maintenance plan would maintain existing groundwater recharge facilities and would not involve any activities that would increase the risk for potential liquefaction impacts. This issue will not be evaluated in the EIR.

### ***Subsidence***

**Less Than Significant Impact.** Subsidence is characterized as a sinking of the ground surface relative to surrounding areas and can generally occur where deep alluvial soil deposits are present in valley and basin areas. Subsidence could potentially result in ground fractures that could cause damage to surface improvements. Subsidence is typically associated with groundwater withdrawal. No subsidence has been documented near OCWD groundwater recharge facilities and the proposed groundwater recharge facilities maintenance plan would not involve any activities that would increase the risk for subsidence impacts. Therefore, potential subsidence impacts would be less than significant. This issue will not be evaluated in the EIR.

### ***Landslides***

**Less Than Significant Impact.** The project area is located in a relatively flat region and would not be exposed to offsite landslides. Therefore, the potential for landslide impacts would be less than significant. This issue will not be evaluated in the EIR.

### ***Compressible/Collapsible Soils***

**Less Than Significant Impact.** Soil collapse is a phenomenon where the soils underlying a site settle or compress, resulting in a lower ground surface elevation. Compressible natural soils and undocumented fills could pose the risk of adverse settlement under static loads imposed by new fills, foundations and structures. The proposed groundwater recharge facilities maintenance plan does not provide for the construction of any structures that would be subject to compressible or collapsible soils. This issue will not be evaluated in the EIR.

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

**No Impact.** The California Geologic Survey Seismic Hazard Zone Map Orange and Anaheim Quadrangles indicate that the project area does not lie within a Landslide Hazard Zone. This issue will not be evaluated in the EIR.

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

**Less Than Significant Impact.** The proposed maintenance activities would not involve any new construction activities that would result in significant erosion impacts. Maintenance activities would be confined to existing recharge basins and would not result in erosion impacts to offsite locations. This issue will not be evaluated in the EIR.

**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?**

**Less than Significant Impact.** The proposed maintenance activities would not involve any new construction activities that would be subject to expansive soil impacts that would create risk to life or property. This issue will not be evaluated in the EIR.

**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 proposed project does not include the construction 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?**

**Potentially Significant Impact.** The proposed project would generate greenhouse gases from construction equipment during maintenance activities. The EIR will provide a complete assessment of impacts associated with greenhouse gas emissions.

**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?**

**Potentially Significant Impact.** The Orange County Water District, the City of Orange, City of Anaheim or the South Coast Air Quality Management District does not have an applicable plan, policy or regulation adopted to reduce the emissions of greenhouse gases. The State has prepared scoping plan to reduce greenhouse gas emissions to 1990 levels by the year 2020. The scoping plan has specific measures for water industries. The EIR will evaluate the project for consistency with the 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 long-term implementation of the proposed groundwater recharge facilities maintenance plan would not involve the routine transportation, disposal or emission of hazardous materials or waste. However, construction operations associated with the proposed project could involve the handling of incidental amounts of hazardous materials, such as fuels and oil. The proposed project would 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 would reduce potential hazards to the public 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 proposed project involves the implementation of a series of maintenance activities to maintain existing groundwater recharge facilities. The maintenance activities would involve the use of limited quantities of hazardous materials that would be required to operate equipment and vehicles. All federal, state and local laws and regulations would be followed regarding the handling of hazardous materials. The compliance with federal, state and local laws and regulations would reduce potential impacts associated with the handling of hazardous materials during construction 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 implementation of the proposed groundwater recharge facilities maintenance plan would not emit hazardous emissions, or involve the handling of acutely hazardous substances. When maintenance activities are being conducted incidental amounts of hazardous materials such as oils and fuels would be utilized. The handling of these substances would be in compliance with local, state and federal laws and regulations regarding the transportation, handling and storage of hazardous substances. Compliance with local, state and federal laws and regulations would reduce potential hazardous substance safety impacts to a less than significant level. 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?**

**Less Than Significant Impact.** The proposed groundwater recharge facilities maintenance plan would be implemented at existing OCWD recharge facilities. None of OCWD groundwater recharge facilities are included on a list of hazardous material sites. This issue will not be evaluated in the EIR

- 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 the 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.** Both John Wayne Airport and Fullerton Municipal Airport are the two primary airports within the project area that would have planning considerations. The Airport Environs Land Use Plans for both airports indicate that none of OCWD groundwater recharge facilities are located within Clear Zone or Accidental Potential Zone. Therefore, implementation of the proposed groundwater recharge facilities maintenance plan would not result in airport 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?**

**No Impact.** The implementation of the proposed groundwater recharge facilities maintenance plan would not involve any activities that would interfere with

emergency response plans. All maintenance activities would occur at existing OCWD groundwater recharge facilities. This issue will not be evaluated in the EIR.

- H. Would the project 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?**

**No Impact.** Implementation of the proposed project would involve any activities that would increase the risk for wildland fires or expose people or structures to a significant risk of wildland fire impacts. This issue will not be evaluated in the EIR.

#### **4.9 Hydrology/Water Quality**

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

**Potentially Significant Impact.** The proposed project involves the implementation of a series of maintenance activities to help maintain existing groundwater recharge facilities. The EIR will evaluate potential water quality impacts associated with the maintenance activities as well as compliance with 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?**

**Less Than Significant Impact:** The proposed project involves maintenance activities to maintain existing groundwater recharge facilities to ensure that adequate groundwater supplies are available in the Orange County Groundwater Basin. Implementation of the groundwater recharge facilities maintenance plan would not deplete or contribute to the depletion of the groundwater basin. This issue will not be evaluated in the EIR.

- 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?**

- 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?**

**Less Than Significant Impact:** Implementation of the proposed groundwater recharge facilities maintenance plan would maintain existing groundwater

recharge facilities and would not change current drainage patterns or cause offsite flooding. Because the implementation of the groundwater recharge facilities maintenance plan would not discharge runoff to any off-site storm drain facilities, it would also not result in any off-site erosion or siltation impacts. Therefore, implementation of the groundwater recharge facilities maintenance plan would result in less than significant flooding, erosion and siltation impacts. This issue will not be evaluated in the EIR.

**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?**

**Less Than Significant Impact:** Implementation of the proposed groundwater recharge facilities maintenance plan would not increase the amount of impervious surfaces at any of the existing groundwater recharge facilities. Therefore, existing rates of surface water runoff would not increase. Additionally, implementation of the proposed groundwater recharge facilities maintenance plan would not substantially increase any pollutant loads that would recharge into the basin or be conveyed to the Santa Ana River. This issue will not be evaluated in the EIR.

**F. Would the project otherwise degrade water quality?**

**Potentially Significant Impact:** The proposed project involves the implementation of a series of maintenance activities to maintain existing groundwater recharge facilities. Some of the maintenance activities would involve the operation of construction equipment in wetted areas. The EIR will evaluate potential water quality impacts associated with the proposed maintenance activities.

**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?**

**No Impact:** Implementation of the proposed groundwater recharge facilities maintenance plan would not result in the construction of any housing structures within a 100-year flood plain. Therefore, implementation of the proposed project would not subject any housing to potential flood risks. This issue will not be evaluated in the EIR.

**H. Would the project place within a 100-year floodplain structures which impede or redirect flows?**

**Less than Significant Impact:** The proposed groundwater recharge facilities maintenance plan involves the implementation of series of maintenance activities to maintain existing groundwater recharge facilities and would not involve the construction of new structures. Additionally, the implementation of the groundwater recharge facilities maintenance plan would not impede or redirect any flood flows. This issue will not be evaluated in the EIR.

- 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?**

**Less than Significant impact:** The proposed maintenance activities included in the proposed recharge facilities maintenance plan would not impact the physical integrity of the basins or increase the risk of flooding. This issue will not be evaluated in the EIR.

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

**Less than Significant impact:** While there is some remote potential that the that project area could be inundated by a seiche, tsunami or mudflow, the implementation of the proposed groundwater recharge facilities maintenance plan would 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?**

**Less than Significant Impact:** Implementation of the proposed groundwater recharge facilities maintenance plan would be confined to existing groundwater recharge facilities and would not have any offsite land use impacts. The implementation of the proposed groundwater recharge facilities maintenance plan would not divide any existing residential communities in the surrounding area or result in any long term adverse land use compatibility impacts. This issue will not be evaluated in the EIR.

- 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?**

**Less than Significant Impact:** The proposed groundwater recharge facilities maintenance plan would maintain existing groundwater recharge facilities within the Cities of Anaheim and Orange. The General Plans for both cities include goals and policies to protect groundwater supplies. Therefore, the proposed groundwater recharge facilities maintenance plan would not be considered to be in conflict with the City's General Plan. This issue will not be evaluated in the EIR.

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

**No Impact.** The project site is not included within the Natural Communities Conservation Plan (NCCP) program for Orange County. No habitat conservation plan or natural community conservation plan is applicable to the project area. This issue will not be evaluated in the EIR.

#### 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.** None of OCWD existing groundwater recharge facilities are considered important mineral recovery sites. The proposed groundwater recharge facilities maintenance plan would only occur on existing OCWD groundwater facilities. Therefore, there would not be a loss of regionally or locally important mineral resources. This issue will not be evaluated in the EIR.

#### 4.12 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?**

**Less than Significant Impact:** The implementation of the proposed groundwater recharge facilities maintenance plan would at times involve the use of heavy construction equipment which would increase existing noise levels. The EIR will evaluate potential noise impacts 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?**

**Less than Significant Impact:** The proposed project involves the periodic implementation of maintenance activities to maintain existing groundwater recharge facilities. Implementation of the proposed groundwater recharge facilities maintenance plan would not result in the permanent increase in existing noise levels at or near the existing recharge facilities. 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?**

**Potentially Significant Impact.** The implementation of the proposed groundwater recharge facilities maintenance plan would involve at time involve the use of heavy construction equipment which would increase existing noise levels. The EIR will evaluate potential noise impacts and compliance with local noise standards and policies.

- 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:** Both John Wayne Airport and Fullerton Municipal Airport are the two primary airports within the project area that would have planning considerations. The Airport Environs Land Use Plans for both airports indicate that none of OCWD groundwater recharge facilities would 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?**

**Less than Significant Impact:** The proposed project involves the implementation of a series of maintenance activities to maintain existing groundwater recharge facilities. The proposed maintenance activities would be confined to OCWD existing recharge facilities and would not involve the use of construction equipment that would result in significant offsite vibration impacts. This issue will not be evaluated in the EIR.

#### **4.13 Population/Housing**

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

**No Impact:** The proposed project includes a series of maintenance activities to maintain existing groundwater recharge facilities. The proposed project would not involve the extension of any new infrastructure into any undeveloped areas and would not provide new water supplies to any undeveloped areas. Implementation of the proposed project would not induce population growth within the project area either directly or indirectly. 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 proposed project includes a series of maintenance activities to maintain existing groundwater recharge facilities. The proposed maintenance activities would occur at existing OCWD groundwater recharge facilities and would not displace existing housing or people and would not necessitate the need for replacement housing. This issue will not be evaluated in the EIR.

#### 4.14 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 proposed project includes a series of maintenance activities to maintain existing groundwater recharge facilities. The proposed project would not generate any 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.

#### 4.15 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?**

**No Impact.** The proposed project includes a series of maintenance activities to maintain existing groundwater recharge facilities. The proposed project would not involve any activities that would generate additional demands for new recreation facilities or increase the use of existing recreation facilities. This issue will not be evaluated in the EIR.

- 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 proposed project does not include any recreational facility or component and would 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.

#### 4.16 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?**

- 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 proposed project includes a series of maintenance activities to maintain existing groundwater recharge facilities. The proposed maintenance activities would occur at existing OCWD groundwater recharge facilities. The proposed project would not generate any new long term traffic. Construction equipment access to the groundwater recharge facilities would occur along the levee of the Santa Ana River or through OCWD properties. Periodically, some construction equipment may need to be hauled to a recharge facility. Such activity would be limited to a few trips per day and would occur during the non-peak traffic periods. The implementation of the groundwater facilities maintenance plan would not generate traffic impacts that would reduce the level of service of any roadway segments or intersections or be in conflict with a local or regional transportation programs. 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 proposed project would not increase the level of air traffic within the regional area. The proposed project does not include any component that would encroach into navigable air space causing a change to air traffic patterns. According the John Wayne Airport and Fullerton Municipal Airport, Airport Environs Land Use Plans the project site is not located within a clear zone or accidental potential zone and therefore would not increase safety risks. This issue will not be evaluated in the EIR.

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

**Less than Significant Impact:** The proposed project includes a series of maintenance activities to maintain existing groundwater recharge facilities. The activities would occur at existing OCWD groundwater recharge facilities. Therefore, the proposed maintenance activities would not increase any traffic hazard. Additionally, construction equipment hauling would occur along designated haul routes and would occur during non-peak hour traffic periods. This issue will not be evaluated in the EIR.

- E. Would the project result in inadequate emergency access?**

**Less than Significant Impact:** The proposed project includes a series of maintenance activities to maintain existing groundwater recharge facilities. The activities would occur at existing OCWD groundwater recharge facilities and

would not require any offsite roadway segment lane closures or detouring of traffic. Therefore, the proposed maintenance activities would not have a significant impact any emergency access. 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 proposed project includes a series of maintenance activities to maintain existing groundwater recharge facilities. The long term operation of the proposed project would not generate traffic that would have significant impacts on any public transit, bicycle or pedestrian facility. Periodically, some construction equipment would need to be hauled to a recharge facility. Such activity would be limited to a few trips per day and would occur during the non-peak traffic periods and would not result in significant impacts on any public transit, bicycle or pedestrian facility. This issue will not be evaluated in the EIR.

#### **4.17 Utilities/Service Systems**

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

**No Impact:** The proposed project includes a series of maintenance activities to maintain existing groundwater recharge facilities. Implementation of the proposed groundwater recharge facilities maintenance plan would not generate any wastewater flows. Therefore, implementation of the proposed project would not exceed any treatment requirements established by the RWQCB. 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 proposed project includes a series of maintenance activities to maintain existing groundwater recharge facilities. The proposed project would not require the construction of any new water or wastewater treatment 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 proposed project includes a series of maintenance activities to maintain existing groundwater recharge facilities. The proposed project would enhance existing groundwater management operations at existing OCWD groundwater recharge facilities. The proposed project would not require the construction of any new drainage facilities or require the expansion of any new

drainage facilities. Therefore, implementation of the proposed project would 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 proposed project includes a series of maintenance activities to maintain existing groundwater recharge facilities. The proposed project would enhance existing groundwater management operations at existing OCWD groundwater recharge facilities. No additional or expanded water entitlements would be needed for the project. 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.** Presently, none of OCWD existing groundwater recharge facilities contain wastewater treatment facilities. Implementation of the proposed groundwater recharge facilities maintenance plan would not generate additional wastewater treatment demands. Therefore, the implementation of the proposed project would not have any 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?**

**No Impact:** The proposed project includes a series of maintenance activities to maintain existing groundwater recharge facilities. Implementation of the proposed project would not generate any long term demands for solid waste disposal beyond the exiting level demand. 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?**

**No Impact.** The proposed project would not involve any activities that would be conflict with federal, state and local statutes and regulations related to solid waste disposal. This issue will not be evaluated in the EIR.

#### **4.18 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:** There is the potential that some special status species could be present at OCWD groundwater recharge facilities and the proposed maintenance activities could result in adverse impacts to special status species that might be present. This issue will be evaluated in the EIR.

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

**Potentially Significant Impact:** At this time it is unknown if the project could contribute to significant cumulative impacts within the South Coast Basin. Potential cumulative impacts associated with the proposed project will be evaluated in the EIR.

**C. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?**

**Potentially Significant Impact:** The proposed project has the potential to result in significant impacts in regards to air quality, biological resources, cultural resources, water quality and noise. These impacts could potentially result in adverse impacts to human beings. These potential impacts will be evaluated in the EIR.

## SECTION 5.0 REFERENCES

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