

**APPENDIX F**  
**IRWM PROJECTS**

---

This Appendix includes both the Funded Project List and the 2018 IRWM Plan Project List of prioritized projects. As noted in Section 6 of the IRWM Plan, the latter represents an example of the list based upon list status in March 2018; this list is updated continually through the DMS. Please visit the [DMS – IRWM Project Data Explorer tab](#) to download the most recent IRWM Project List.

South Orange County IRWM Plan  
Funded Projects

**Prop 50 Projects**

<b>Prop 50 IRWM Implementation Round 1</b>		
Project	Agency	Year Completed
Water Use Efficiency Program	Municipal Water District of Orange County (MWDOC)	2013
Canada Gobernadora Multipurpose Basin	Santa Margarita Water District	2015
Heisler Park Marine Habitat Protection	City of Laguna Beach	2013
Recycled Water Transmission Systems Improvements	City of San Juan Capistrano	2013
Recycled Water Treatment and Distribution	City of San Clemente	2014
Aliso Creek Habitat Restoration Project	County of Orange	2013
Recycled Water System Expansion Project	El Toro Water District	2014
Aliso Creek Urban Runoff Recovery, Reuse, and Conservation Project	South Coast Water District (SCWD)	2014
Coastal Treatment Plant Export Sludge System	South Orange County Wastewater Authority	<i>Project Terminated</i>

**Prop 84 Projects**

<b>Prop 84 Implementation Round 1</b>		
Project	Agency	Completion Date
Rockledge Ocean Protection Project	City of Laguna Beach	Project Completed
Shadow Rock Detention Basin Facility Urban Water Recovery Project	Trabuco Canyon Water District	Project Completed
South Orange County Water Smart Landscape Project	MWDOC	Project Completed
Grant Administration	County of Orange	Anticipated 06-2018

South Orange County IRWM Plan  
Funded Projects

<b>Prop 84 Implementation Round 2</b>		
Project	Agency	Completion Date
Audubon Starr Ranch Sanctuary's Riparian Invasion Control, Restoration, Mon. & Ed. Project	Audubon Starr Ranch	Anticipated 04-2018
Irvine Ranch Water District's Baker Water Treatment Plant	Irvine Ranch Water District	Project Completed
Targeted Water Conservation Programs	South Coast Water District	Project Completed
Comprehensive Landscape Water Use Efficiency Program	MWDOC	Project Completed
Grant Administration	County of Orange	Anticipated 06-2018

<b>Prop 84 IRWM 2014 Drought Grant</b>		
Project	Agency	Completion Date
Grant Administration	County of Orange	Anticipated 04-2018
Califia Recycled Water Project	SMWD	Project Completed
South Coast Water District (SCWD) Recycled Water System Extension Project	South Coast Water District	Project Completed
Recycled Water Extension	MNWD	Project Completed

<b>Prop 84 IRWM 2015 Implementation Grant</b>		
Project	Agency	Completion Date
City of Aliso Viejo's Dairy Fork Wetland	Aliso Viejo	Anticipated 04-2018
USDA Forest Service, Cleveland National Forests' San Juan Aquatic Passage and Habitat Improvement	National Forest Service	Anticipated 03-2020
City of Laguna Niguel's Crown Valley Park Entry Channel Improvements	Laguna Niguel	Project Completed
MWDOC's Strategic Turfgrass Removal & Design Assistance Program	MWDOC	Anticipated 10-2019
Santa Margarita Water District's 3A Water Recycling Plant Tertiary Expansion	SMWD	Anticipated 12-2018
SCWD's Recycled Water Distribution Upgrade.	SCWD	Project Completed
County of Orange Grant Administration	County of Orange	Anticipated 06-2020

Project Title	Project Status	Project Description	Agency	Completion Date	Preliminary Project Ranking	Project Total Cost	Primary Project Goal	Potential Regional Project
AV Ranch Landscape Improvement Project	Planning	Retrofitting and improvement of existing landscape area. This includes the installation of smart and weather controlled irrigation systems and planting drought resistant species	Aliso Viejo	TBD	TBD	TBD	TBD	TBD
AV Urban Runoff Capture and Reuse	TBD	TBD	Aliso Viejo	TBD	TBD	TBD	TBD	TBD
Bluebird Canyon and Diversion Structure Rehab	In Design	The City of Laguna Beach will demolish and rebuild the Bluebird Canyon Outfall and Diversion Structure, allowing increased storm water capture and recycling and providing increased regional water self-reliance.	City of Laguna Beach	2020	189.4	\$ 750,000	Improve Water Quality	Yes
Alicia Parkway Median Island Rehabilitation	Planning	Replacement of turf with low water use/drought tolerant landscaping to reduce water consumption and urban runoff along 3,800 lf of median island.	City of Laguna Hills	2020	73.3	\$ 825,000	Increase Water Supply, Reliability and Efficiency	No
La Paz Road Median Island Rehabilitation	Planning	Replacement of turf with low water use/drought tolerant landscaping to reduce water consumption and urban runoff along 1,800 lf of median island.	City of Laguna Hills	2020	73.3	\$ 470,000	Increase Water Supply, Reliability and Efficiency	No
Laguna Hills Drive Median Island Rehabilitation	Planning	Replacement of turf with low water use/drought tolerant landscaping to reduce water consumption and urban runoff along 3,800 lf of median island.	City of Laguna Hills	2020	73.3	\$ 1,230,000	Increase Water Supply, Reliability and Efficiency	No
Moulton Parkway Median Island Rehabilitation	Planning	Replacement of turf with low water use/drought tolerant landscaping to reduce water consumption and urban runoff along 1.0 mile of median island.	City of Laguna Hills	2020	73.3	\$ 1,750,000	Increase Water Supply, Reliability and Efficiency	No
Oso Parkway Median Island Rehabilitation	Planning	Replacement of turf with low water use/drought tolerant landscaping to reduce water consumption and urban runoff along 1.2 miles of median island.	City of Laguna Hills	2020	73.3	\$ 2,125,000	Increase Water Supply, Reliability and Efficiency	No
Paseo de Valencia Median Island Rehabilitation	Planning	Replacement of turf with low water use/drought tolerant landscaping to reduce water consumption and urban runoff along 1.5 mile of median island.	City of Laguna Hills	2020	73.3	\$ 2,590,000	Increase Water Supply, Reliability and Efficiency	No
Mission Viejo Trash and Runoff Abatement Project (TRAP): Phase 2: Los Alisos Blvd from Santa Margarita Parkway to Madero	In Design	Catch basin retrofit, irrigation efficiency/irrigation runoff prevention	City of Mission Viejo	06/30/2020	137.3	\$ 1,520,000	Improve Water Quality	No
City-wide Equestrian Facility LID Improvement Project	In Design	City led public-private partnership to gain a dedicated source of groundwater basin recharge from LID improvements at equestrian facilities.	City of San Juan Capistrano	2020	196.2	\$ 5,000,000	Improve Water Quality	Yes
L01 San Juan Creek Channel, Invert Stabilization	Planning	This project will accommodate the sheet pile walls that were inserted in 8 phases for protection against the 100-year storm event. The FEMA Special Flood Hazard Area, or 100-year floodplain will be removed and a Letter Of Map Revision (LOMR) will indicate	County of Orange, Orange County Flood Control District	June 30, 2022	58.7	\$ 30,000,000	Integrate Flood Management	Yes
L01 San Juan Creek Channel, Pacific Ocean to Stonehill Drive	Planning	This project is downstream of the last 8 phases that were constructed with sheet pile walls and the invert stabilization will have been completed. This project is in the planning stage and may include sheet pile walls for protection against the 100-year	County of Orange, Orange County Flood Control District	June 30, 2027	58.7	\$ 21,500,000	Integrate Flood Management	Yes
L02 Trabuco Creek Channel, Phase 8	In Design	This project is the last phase of 8 and will implement installation of sheet pile walls for protection against the 100-year storm event. The FEMA Special Flood Hazard Area, or 100-year floodplain will be removed and a Letter Of Map Revision (LOMR) will in	County of Orange, Orange County Flood Control District	June 30, 2023	59.1	\$ 12,300,000	Integrate Flood Management	Yes
San Juan Creek L01S02 Subwatershed Storm Drain BMPs	Planning	High priority major storm drain (11' BY 20' double box culvert) storm water BMPs (harvest, treatment and redirect and/or infiltrate), including trash removal unit in the San Juan Creek subwatershed, L01S02. Includes Arrundo removal component.	Dana Point	max. 1 year after funding acquired	116	\$ 800,000	Improve Water Quality	Yes
KelpPod Laguna	In Design	Research and develop offshore kelp forests to mitigate anthropogenic contaminants from urban runoff and secondary sewage discharges to regulated coastal receiving waters	Laguna Bluebelt Coalition	January 1, 2020	TBD	\$ 500,000	Protect and Enhance Natural Resources	Yes
Aliso Creek Urban Runoff (ACWRF)	Previous Project	Remove excess urban runoff, increase recycled water , control flood management for Aliso Estuary Restoration Project	Laguna Bluebelt Coalition w/SCWD and SOCWA	January 1, 2020	TBD	\$ 2,300,000	Protect and Enhance Natural Resources	Yes
South Orange County Irrigation Efficiency, Runoff Reduction, and Pollution Prevention Program	Planning	The Municipal Water District of Orange County (MWDOC) proposes the implementation of a comprehensive and holistic regional water use efficiency improvement program targeting public agency, residential, commercial, industrial, and institutional properties	Municipal Water District of Orange County (MWDOC)	9/2024	250.9	\$ 5,737,034	Increase Water Supply, Reliability and Efficiency	Yes
PMMC Water Treatment/Recycling System	In Design	PMMC is designing a water treatment/recycling system that will reduce its water usage by 85-90% (4 to 5 million gallons/year), provide ongoing public educational opportunities regarding water conservation, and improve facility operations and patient care.	Pacific Marine Mammal Center	12/2019	207.4	\$ 2,400,000	Increase Water Supply, Reliability and Efficiency	No
Joint Recycled Water Conveyance Project	Planning	The proposed Project is a regional recycled water line shared with MNWD and possibly El Toro Water District.	Santa Margarita Water District	August 2020	233.5	\$ 24,000,000	Increase Water Supply, Reliability and Efficiency	Yes
Recycled Water Conversions - Las Flores Improvement District No. 4B	In Design	The Project includes expanding the recycled water distribution system to allow for conversion of the dedicated irrigation systems from domestic water.	Santa Margarita Water District	June 2019	233.3	\$ 4,900,000	Increase Water Supply, Reliability and Efficiency	Yes
Recycled Water Conversions - Melinda Improvement District No. 3A	Planning	The Project includes expanding the recycled water distribution system to allow for conversion of dedicated irrigation systems from domestic water.	Santa Margarita Water District	June 2020	233.3	\$ 2,370,000	Increase Water Supply, Reliability and Efficiency	Yes
Recycled Water Conversions-- Rancho Santa Margarita (RSM) Improvement District No. 4A	Planning	The Project includes expanding the recycled water distribution system to allow for conversion of the RSM dedicated irrigation systems from domestic water.	Santa Margarita Water District	June 2021	233	\$ 13,000,000	Increase Water Supply, Reliability and Efficiency	Yes
Recycled Water Upgrades in San Clemente	Planning	The Project includes A) Upgrade City of San Clemente Recycled Water Pumps and B) Install Recycled water pumps at Pico Lift Station Site.	Santa Margarita Water District	February 2020	233.3	\$ 1,200,000	Increase Water Supply, Reliability and Efficiency	Yes
San Juan Watershed Phase 1 Project	In Design	The Project includes enhancing groundwater recharge in the San Juan Basin aquifer for potable water sources.	Santa Margarita Water District	December 2019	259.7	\$ 23,000,000	Increase Water Supply, Reliability and Efficiency	Yes
Advanced Metering Infrastructure (AMI) Project Phase 2	Planning	The AMI Project includes the upgrade existing Automatic Meter Reading (AMR) water meters (currently read via vehicle drive-by) with an AMI cellular base technology system that will automatically collect and store hourly consumption data.	South Coast Water District	January 2022	234.3	\$ 6,000,000	Increase Water Supply, Reliability and Efficiency	Yes
Doheny Ocean Desalination Plant Project including alternative energy (i.e. solar, fuel cell, battery storage, etc.)	In Design	Project includes Design, Permit & installation of Solar Energy Panels (or natural gas fuel cells, battery storage, etc.) on District property to provide alternative energy power source. Power will be utilized at the Doheny Ocean Desalination Plant.	South Coast Water District	March 2021	251.6	\$ 107,000,000	Increase Water Supply, Reliability and Efficiency	Yes
Golden Lantern/Stonehill Recycled Water Distribution Improvements Project (Project) (Bottleneck No. 2)	In Design	Project consists of correcting existing pressure deficiencies in the recycled water distribution system and extending the recycled water distribution system to serve targeted Tier A Conversion customers.	South Coast Water District	September 2019	234.2	\$ 5,500,000	Increase Water Supply, Reliability and Efficiency	Yes
Recycled Water Distribution System Expansion (Construction)	Planning	Conversion of existing Potable Water irrigation customers to Recycled Water, expansion of existing Recycled Water Infrastructure to serve additional customers, and conduct ongoing public education programs. (Construction)	South Coast Water District	June 2021	233.7	\$ 3,000,000	Increase Water Supply, Reliability and Efficiency	Yes