

Project No	Project Name	Project Sponsor	Partners	Project Type	Shorthand Project Summary	Project Summary	Status
			Fox Canyon Groundwater Management Agency (FCGMA)		UWCD is currently working to purchase additional SWP supplies which would be part of the District's conservation releases. The ASAP Project includes construction of a wellfield and transmission pipeline for direct delivery of that additional SWP water to users on the Oxnard Plain. Three alternatives are being considered that differ in the location of the wellfield and pipeline alignment. The project would increase the efficiency for UWCD's facilities to an estimated 95% and reduce lag time between release and delivery. The project may also temporarily increase groundwater levels in the Piru and Fillmore basins, depending on the selected alternative, during temporary storage of the additional SWP water.	conservation releases from Lake Piru, releasing stored flood flows and imported State Water Project (SWP) to benefit Santa Clara River valley groundwater basins as well as those underlying the Oxnard Plain. A	Concept
1	Alternative Supply Alliance Pipeline (ASAP)	UWCD		Water Supply	The proposed project consists of increasing spillway capacity to pass an IDF of 220,000 cubic feet per second (cfs) to prevent overtopping of the spillway walls and the dam crest. Improvements to the spillway will reduce risk of failure of the spillway during a PMF event and meet the criteria required to prevent overtopping of Santa Felicia Dam.	Dam, which impounds the 82,000 acre-ft (AF) Lake Piru Reservoir, does not have adequate capacity to pass	Included in Grant Applicati
2	Santa Felicia Dam Spillway/Flood Containment	UWCD		Flood Management	The proposed project consists of constructing an iron and manganese filtration facility at the El Rio Water Treatment and Groundwater Recharge Facility. This project will enable treated groundwater to be used for blending with shallow well groundwater even during severe drought conditions. The project would enable UWCD to meet primary and secondary drinking water standards for nitrate, iron, and manganese in its delivered water. As such, the project will improve the operational flexibility, reliability and long-term drought resilience of the system.	Plain are increasingly impacted by elevated nitrate levels due to drought-related groundwater level declines. Additionally, use of groundwater from the lower aquifer system for blending	Grant Received
3	Iron and Manganese Removal Project	UWCD		Groundwater		developing a long-term strategy for	Concept
4	Santa Felicia Dam Sediment Management	UWCD		Other	Develop a long-term strategy for managing sediment in Lake Piru.	groundwater replenishment and water delivery for various users on the Oxnard Coastal Plain. UWCD's Freeman Diversion diverts surface	Initiated
5	Lower Santa Clara River Invasive Species Control Project	UWCD		Other	To control measures to effectively prevent quagga mussels from passing through UWCD's system and into downstream stakeholder infrastructure. A 2016 feasibility study assessed various alternatives for controlling quagga mussels downstream of the Freeman Diversion. The proposed project includes the construction of an expanded Saticoy well field to act as an environmental buffer (i.e. slow sand filter) of quagga mussel veligers (i.e. larvae).	Hueneme Water Agency (PHWA) can currently receive water from UWCD	Concept
6	UWCD/Calleguas Reliability Enhancement Project	UWCD	Calleguas Municipal Water District (Calleguas)	Groundwater	Improvements to the El Rio wellfield, treatment, storage, and Oxnard-Hueneme pipeline capacity could enable UWCD to deliver enough water to meet all of Oxnard's and Port Hueneme Water Agency's demands on Calleguas during an outage, and improve the water quality.	permitting, design and construction of 3 recycled water pipelines to	Concept
7	Recycled Water Expansion	UWCD	Potentially City of Oxnard and Pleasant Valley County Water District	Water Supply/Recycled Water	Planning and construction of three recycled water pipelines to deliver water from Oxnard's AWWP to United's existing groundwater recharge basins and/or direct delivery to the Pumping Trough Pipeline (PTP) system and Pleasant Valley County Water District system.	in 1991, replenishes approximately 53,000 acre-feet per year (AFY) of stream flow to the underlying groundwater. Yield of the Freeman	Initiated
8	Freeman Diversion Expansion Project	UWCD	Fox Canyon Groundwater Management Agency	Groundwater	The proposed project involves increasing the capacity of the Freeman Diversion and groundwater recharge system to divert and recharge higher flows when high levels of suspended sediment are present – flows that have not been diverted historically. The project will include modification and expansion of existing fish screens, high-capacity conveyance to the Rose and Ferro recharge basins, and modifications to the existing desilting basin. Increasing diversion capacity will also require a new surface water right.	infrastructure to extract "excess" groundwater from the Upper Aquifer System (UAS) of the northwestern Oxnard Plain at opportune times and distribute it to other areas where overdraft exists. Groundwater elevations in that portion of the Oxnard Plain are typically higher and conditions can even reach artesian conditions during wet periods.	Concept
9	Anacapa Project	UWCD	Potentially City of Oxnard	Groundwater	This project consists of constructing infrastructure to extract "excess" groundwater from the Upper Aquifer System (UAS) of the northwestern Oxnard Plain at opportune times and distribute it to other areas where overdraft exists. Groundwater elevations in that portion of the Oxnard Plain are typically higher and conditions can even reach artesian conditions during wet periods.	Municipal Water District (Casitas), United Water Conservation District (UWCD) and Calleguas Municipal	Concept
10	State Water Interconnection UWCD Turnouts	UWCD	City of Ventura	Water Supply	The project is to build proposed infrastructure that will ensure that UWCD is able to receive water from the proposed interconnection in order to enhance its groundwater replenishment operations, improve groundwater quality, and improve local supply reliability. The project consists of the installation of piping for UWCD to receive water from the SWP Proposed Interconnection at the Rose Avenue turnout.	species, is widespread in the Santa Clara River Watershed and is	Concept
11	Watershed-Wide Arundo Removal Program	UWCD	Potentially The Nature Conservancy and other stakeholders. Possible coordination with upper watershed	Habitat/Environmental Restoration	Project is to study and eventually implement a Santa Clara River Watershed-wide Arundo Removal Program, under collaboration with other watershed stakeholders and possible involvement of the Upper Santa Clara River IRWM Region.	Felicia Dam which creates Lake Piru Reservoir for the purpose of providing	Included in Grant Applicati
12	Santa Felicia Dam Outlet Works	UWCD		Flood Management	Construct a new outlet works to provide necessary stability against seismic loading to continue water conservation efforts, overall water supply reliability of the region, and protection of life and property.	a study to evaluate option(s) for collection and diversion of	Concept
13	Feasibility of Stormwater Capture with Advanced Treatment	City of Oxnard		Other	This project involves development of a study to evaluate option(s) for collection and diversion of stormwater to the City of Oxnard's Advanced Water Purification Facility (AWPF) for treatment. Advanced treated stormwater could then be recycled for various uses.	Purification Facility (AWPF) to treat Ventura's tertiary treated effluent to a high quality to be returned to the potable water supply. The project is comprised of multiple components, including, new treatment wetlands, aquifer storage and recovery wells (ASR), as well as an ocean outfall for concentrate disposal, as well as the AWPF.	Submitted for Review
14	VenturaWaterPure	City of San Buenaventura		Other	VenturaWaterPure will construct an Advanced Water Purification Facility (AWPF) to treat Ventura's tertiary treated effluent to a high quality to be returned to the potable water supply. The project is comprised of multiple components, including, new treatment wetlands, aquifer storage and recovery wells (ASR), as well as an ocean outfall for concentrate disposal, as well as the AWPF.	Groundwater Sustainability Agency is mandated under the Sustainable Groundwater Management Act to develop a Groundwater Sustainability Plan by January 30, 2022. In order to meet this mandate the GSA has to consider Groundwater Dependent Ecosystems in the development of the GSP. This project will help fund the GDE assessment and the construction of monitoring wells to help support this component of GSP development.	Grant Received
15	Fillmore and Piru Basins Groundwater Dependent Ecosystem Assessment	Friends of the Santa Clara River	Fillmore and Piru Basins GSA and Sillwater Sciences	Groundwater	The Fillmore and Piru Basins Groundwater Sustainability Agency is mandated under the Sustainable Groundwater Management Act to develop a Groundwater Sustainability Plan by January 30, 2022. In order to meet this mandate the GSA has to consider Groundwater Dependent Ecosystems in the development of the GSP. This project will help fund the GDE assessment and the construction of monitoring wells to help support this component of GSP development.	from various public schools in the	Grant Received
16	Santa Clara River Scholars	Friends of the Santa Clara River		Other	Outdoor field trips for various public schools to the Santa Clara River Estuary and the Ventura Water Treatment Plant Wildlife Ponds.	produce a concept report for the Santa Clara River Loop Trail. The	Grant Received
17	Santa Clara River Loop Trail Concept Report	Friends of the Santa Clara River	Sierra Club	Open Space & Recreation	Develop a concept design for the Santa Clara River Loop Trail to be located on both north and south banks of the Santa Clara River between and including crossing at Hwy 101 and Rte 118.	enhancements with the SCR1 project including: (a) bridge connection to levee and natural river environment	Concept
18	SCR1 Education, Recreation, Water Conservation	Friends of the Santa Clara River	Sierra Club, Rio School District, Ventura County Watershed Protection District, and Community Groups	Open Space & Recreation	Provide educational and recreational enhancements with the SCR1 project including: a) bridge connection for Rio del Sol STEAM Academy; b) River Access Trail; c) Levee Trail; d) Amphitheater built into levee side; e) vegetated native planting on all levee backfill; f) stormwater conservation and habitat restoration at Centra Ave Drain.	collective water conservation project opportunities available in the Santa	Concept
19	Water Conservation Opportunities and Cost Benefit Analysis Assessment	Friends of the Santa Clara River	Partners welcome -Potentially UCSB Resiliency Center, Pacific Institute,	Water Conservation	The assessment will look at the collective water conservation project opportunities available in the Santa Clara River watershed and do a cost benefit analysis to help prioritize water conservation activities and implementation projects.	change assessment and identification of potential updates of relevant plans, programs and strategies to protect the	Concept
20	Santa Clara River Climate Change Assessment	Santa Clara River Conservancy	TBD, Ventura County, Watersheds Coalition of Ventura County	Other	This project would support a climate change assessment and identification of potential updates of relevant plans, programs and strategies to protect the water resources of the Santa Clara River watershed.	of potential updates of relevant plans, Concept	Concept
21	Santa Clara River Water Quality Restoration	Santa Clara River Conservancy		Other	Phytoremediation can be a low-cost approach to cleaning up soil and water. SCRC seeks to expand restoration efficacy at strategic locations by removing additional invasive species to enhance water quality and by planting native vegetation for nutrient uptake and breakdown or stabilization of other pollutants.	conveys to the ocean nutrients and pollutants from numerous sources including surface drainage,	Concept
22	Sespe Cienega Interpretive Wetland and Riparian Access Trail	Santa Clara River Conservancy	TBD, potential: CA Dept. of Fish and Wildlife; State Coastal Conservancy; TNC; local School Districts, FOSC	Other	This project would construct a public access interpretive trail to and along the Santa Clara River at the Sespe Cienega, including to serve the Severely Disadvantaged areas and communities of Fillmore, Santa Paula, and Piru.	access interpretive trail to and along the Santa Clara River at the Sespe	Concept
23	"Students Exploring the Santa Clara River" Education Program	Santa Clara River Conservancy	US Fish & Wildlife, University of California Santa Barbara	Other	"Students Exploring the Santa Clara River" brings students who live in disadvantaged communities within the watershed to the river or one of its tributaries. The program consists of two parts: an in-class presentation and a field trip to the river.	River" is focused on bringing students who live in disadvantaged	Grant received
24	Brown Barranca Storm Water Management Project- from Henderson Rd to SCR	Ventura County Watershed Protection District	City of Ventura, Caltrans, Ventura County Parks Department, Ventura County Transportation Commission	Other	Brown Barranca is a jurisdictional channel of Ventura County Watershed Protection District and a major flood control facility on the east side of the City of Ventura. The facility is deficient along the 4,800-foot long channel from Henderson Road to the confluence with Santa Clara River (SCR) that would result in flood risk to adjacent properties. A 2005 study proposed channel improvement alternatives to correct the deficiencies. However, with potential collaboration involving multiple state and local agencies, a new approach to incorporate multiple benefits in addition to flood control, such as groundwater recharge, water quality enhancement, recreation, and expansion of non-vehicular transportation infrastructure looks more feasible. The concept is to utilize low lying areas on the Saticoy Regional Golf Course owned by the Ventura County Parks Department along Brown Barranca to achieve maximum benefit for stormwater management.	channel of Ventura County Watershed Protection District and a major flood control facility on the east side of the City of Ventura. A preliminary design study completed in 2005 identified facility deficiencies along the 4,800-foot long channel	Concept
25	Santa Clara River Levee Improvements U/S Hwy 101	Ventura County Watershed Protection District	City of Oxnard, USACE, United Water Conservation District, Rio School District, County Stormwater Program	Flood Management	Approximately 1,945 structures and roadways located in the northern portion of the City of Oxnard (RiverPark and El Rio area) are currently at risk of flooding due to existing deficiencies in the SCR-1 levee system. The proposed project consists of improving the deficient SCR-1 levee system, generally following the southern bank of the Santa Clara River near the City of Oxnard, California. The concept project includes betterments for recreation, access, education, and stormwater capture within the project area.	Clara River Levee between Highway 101 and Central Avenue (SCR-1) does not meet the Federally-mandated levee certification regulations found	Initiated
26	tsumaš Creek (formerly J-Street Drain) Flood Channel Improvement Multi-Benefit Project	Ventura County Watershed Protection District	City of Oxnard, County Stormwater Program, The Nature Conservancy, Southwinds Neighborhood Council	Flood Management	In its current configuration, tsumaš Creek from Hueneme Road to upstream of Redwood Street conveys 10-year storm flows, leaving 405 adjacent single-family homes, 13 multi-family dwellings, 6 commercial structures, an assisted-living facility, city streets, a local railroad, schools, parks, and the Oxnard Waste Water Treatment Plant (OWWTP) at risk of flooding from larger flows. The proposed project would enlarge the existing 1.8-mile (9,580 feet) undersized open trapezoidal concrete-lined channel, cover it and add an overlying greenway with pedestrian/bicycle trail.	Creek from Hueneme Road to upstream of Redwood Street conveys 10-year storm flows, leaving 405 adjacent single-family homes, 13 multi-family dwellings, 6 commercial	Grant Received
27	Piru Wastewater Treatment Plant - Photovoltaic System	Ventura County Waterworks District No. 16		Desalination	Ventura County Waterworks District #16 (District) is proposing a 200-KW solar photovoltaic (PV) power generation system for the Piru Wastewater Treatment Plant (PWTP) and its plant effluent desalination treatment facility. The project includes engineering design, construction and project management of a solar PV system to provide most of the electricity energy requirements to operate the PWTP and the advanced desalination treatment facility.	#16 (District) is proposing a 200-KW solar photovoltaic (PV) power generation system for the Piru Wastewater Treatment Plant (PWTP)	Concept
28	Hanson Public Access and Riparian Restoration Project	The Nature Conservancy		Open Space & Recreation	TNC proposes to implement a already developed award-winning public access plan for the Hanson-Villanueva property, concurrent with ongoing and continuing restoration efforts and educational programming. This shovel-ready project would allow the neighboring disadvantaged community to engage with and learn about the restoration of the Santa Clara River.	worked cooperatively to protect around 1,000 contiguous acres of riparian habitat spanning nearly two	Initiated
29	City of Fillmore Infiltration Project (M-SCR01)	City of Fillmore	TBD	Other	The project is to use an undeveloped City owned parcel to capture stormwater from a 53 acre drainage area for water quality enhancement, education, and water supply benefits.	undeveloped lot behind residences on Mockingbird Lane in the City of	Concept
30	Seawater Intrusion Management (SWIM) Area Program	UWCD	Fox Canyon Groundwater Management Agency	Groundwater	The Seawater Intrusion Management (SWIM) Area Program is a proposed basin optimization program to reduce pumping in the Oxnard Plain near the coast, where groundwater pumping significantly exacerbates seawater intrusion into underlying groundwater, to minimize or reverse trends of increasing salinity in water-supply wells. Existing groundwater pumping in the SWIM Area would be offset with alternative supplies delivered via new conveyance infrastructure constructed as part of this project.	(SWIM) Area Program is a proposed basin optimization program to reduce pumping in the Oxnard Plain near the coast, where groundwater pumping	Concept
31	Coastal Brackish Water Treatment Plant	UWCD	Potentially Calleguas Municipal Water District, City of Oxnard	Desalination	The proposed project consists of constructing a brackish water treatment plant (BWTP) near the coast, in the southern Oxnard Plain overlying areas highly impacted by seawater intrusion.	continues to degrade from seawater intrusion rendering portions of the	Concept

Location	Primary Benefit	Secondary Benefits	Serves DA	Cost (\$)	Primary Watershed	Secondary Watershe	Regional
Around Freeman Diversion, Saticoy groundwater recharge basins, and the Pleasant Valley/PTP system.	Water Supply	Water Quality	Yes		Santa Clara River	Calleguas	Yes
Santa Felicia Dam	Flood Management	Water Supply	Yes		Santa Clara River		Yes
El Rio	Water Supply	Water Quality	Yes	4,200,000	Santa Clara River	Calleguas	Yes
Lake Piru	Water Supply & Storage	Habitat - Invasives Removal	No		Santa Clara River		
Saticoy well field	Reduced Costs & Water Security	Habitat - Invasives Prevention		10,000,000	Santa Clara River		
Oxnard forebay and El Rio Wellfield	Water Supply Reliability & Operational Flexibility	Water Quality	Yes		Santa Clara River	Calleguas	Yes
Riverpark and Saticoy primarily	Use of Recycled Water/Conservation	Water Reliability	Yes	7,000,000	Santa Clara River	Calleguas	Yes
Freeman Diversion	Water Supply	Water Quality	Yes	31,000,000	Santa Clara River		
Northwest Oxnard Plain	Water Supply	Water Reliability	Yes		Santa Clara River	Calleguas	Yes
Rose Avenue, between Central Avenue and Highway 118.	Water Supply	Water Supply Reliability and Resiliency	Yes	2,500,000	Santa Clara River	Calleguas	Yes
Watershed-wide	Water Supply	Habitat - Invasives Removal			Santa Clara River		
Santa Felicia Dam	Safety & Flood Management	Protect Water Storage Capabilities	Yes	65,000,000	Santa Clara River		
Near Oxnard AWP	Water Supply	Flood Management	Yes	150,000	Santa Clara River	Calleguas	Yes
Within City of Ventura	Water Supply & Sustainability	Water Quality		177,000,000	Santa Clara River		
Piru and Fillmore Basins	Water Supply	Environment	Yes	500,000	Santa Clara River	Calleguas	
Water Treatment Plant Wildlife Ponds)	Education	Recreation and Stewardship	Yes	45,694	Santa Clara River		
Ventura and Oxnard between Hwy 101 and Hwy 118	Recreation	Education			Santa Clara River		
SCR-1 Levee adjacent to Riverpark neighborhood	Recreation & Access	Education & Stewardship	Yes		Santa Clara River		
Watershed-wide	Water Supply Through Conservation	Environment	Yes		Santa Clara River	Calleguas	Yes
Watershed-wide	Adaptation to Climate Change	Education and enhanced integration of resource management programs	Yes	500,000,000	Santa Clara River		
Hedrick Ranch Nature Area, Sespe Cienga, the CDFW hatchery in Fillmore, and the Snells property in Santa Paula.	Water Quality	Education	Yes	1,000,000	Santa Clara River		
Sespe Cienga near Fillmore	Public Access and Recreation	Education	Yes	1,500,000	Santa Clara River		
Steckel Park at Santa Paula Creek, and Shiells Park at Sespe Creek	Education	Stewardship	Yes	30,000	Santa Clara River		
Brown Baranca in City of Ventura	Flood Management	Rereation, Stormwater Capture, and Habitat	Yes	6,500,000	Santa Clara River		
SCR-1 Levee adjacent to Riverpark neighborhood	Flood Management	Stormwater Capture, Recreation, and Education	Yes	41,000,000	Santa Clara River		
Reaches 2-4 of tsumaš Creek extend approximately 1.8 miles from north of Redwood Street, southward to Hueneme Road.	Flood Management	Stormwater capture, recreation	Yes	70,000,000	Santa Clara River		
Piru Wastewater Treatment Plant	Reduces Energy Use and GHG Emissions	Reduced and Stable Costs to Ratepayers	Yes	1,200,000	Santa Clara River		
Hanson-Villanueva property located along the Santa Clara River in Santa Paula.	Educational and Recreational Opportunities	restore natural function and increase groundwater recharge	Yes	985,000	Santa Clara River		
behind Mockingbird Lane adjacent to Sespe Creek	Stormwater Quality Enhancement	Education and Water Supply	Yes		Santa Clara River		
Southern Oxnard Plain	Water Quality, Supply & Storage	Environmental, Community	Yes		Calleguas	Santa Clara River	Yes
Southern Oxnard Plain	Water Supply	Water Quality	Yes	00-148,000,000	Calleguas	Santa Clara River	Yes

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