

**RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT  
DESIGN & CONSTRUCTION AND FIVE YEAR CIP PROJECT SUMMARY - ZONE 2  
FISCAL YEARS 2017-18 THROUGH 2021-22**

Project Number	Stg No.	Project Title	Total Remaining Cost to Deliver Project	Budget Year 1 - FY 2017-18			CIP Years 2 through 5 - FY 2018-22				Total Post CIP Balance	Total Unfunded Project Cost	
				Project Appropriation	Project Specific Funding		Estimated Project Appropriation	Project Specific Funding					
					Tax Revenue	ADP Contribution		External Contrib	Tax Revenue	ADP Contribution			External Contrib
2-8-00002	01	MOCKINGBIRD CYN RESTORATION SUB-REACH 1	2,863,932	\$412,648	\$0	\$412,648	\$0	\$2,451,284	\$1,798,758	\$652,526	\$0	\$0	\$0
2-8-00052	01	TEMESCAL CREEK FLOOD PLAIN AQ	23,534,000	3,000,000	3,000,000	0	0	20,534,000	20,534,000	0	0	0	0
2-8-00105	00	SANTA ANA CANYON - BELOW PRADO	6,105,000	5,105,000	5,105,000	0	0	1,000,000	1,000,000	0	0	0	0
2-8-00110	90	EL CERRITO CHANNEL RESTORATION	2,647,499	211,789	211,789	0	0	2,435,712	2,435,712	0	0	0	0
2-8-00140	11	NORTH NORCO CHANNEL	6,566,331	540,699	540,699	0	0	6,025,632	6,025,632	0	0	0	0
2-8-00144	01	NORCO MDP LINES N-2, NC & LAT NC-1	3,497,248	166,793	166,793	0	0	3,330,455	3,330,455	0	0	0	0
2-8-00145	03	NORCO MDP LINE NB	2,446,006	1,214,072	1,214,072	0	0	1,231,933	1,231,933	0	0	0	0
2-8-00150	06	S NORCO CH STG 6/NORCO MDP LNS S-1 & S-5 STG 1	7,792,877	1,273,267	1,173,267	0	100,000	6,519,610	6,519,610	0	0	0	0
2-8-00155	02	NORCO MDP LINES NA-1 & NA-1A	4,920,033	180,408	180,408	0	0	4,739,625	4,739,625	0	0	0	0
2-8-00208	01	CORONA - SOUTH VICTORIA AVE STORM DRAIN	652,540	123,752	123,752	0	0	528,788	528,788	0	0	0	0
2-8-00209	01	CORONA - SOUTH JOY ST STORM DRAIN	596,487	348,639	348,639	0	0	247,848	247,848	0	0	0	0
2-8-00210	01	CORONA - EAST GRAND BLVD STORM DRAIN	575,284	310,418	310,418	0	0	264,866	264,866	0	0	0	0
2-8-00304	60	EASTVALE MDP LINE D (WTR QUALITY ENHNCMNT)	862,862	14,091	14,091	0	0	848,770	848,770	0	0	0	0
2-8-00310	60	EASTVALE MDP LINE E (WTR QUALITY ENHNCMNT)	991,386	12,810	12,810	0	0	978,575	978,575	0	0	0	0
2-8-00350	01	CORONA MDP LINE 52	3,904,297	3,904,297	3,904,297	0	0	0	0	0	0	0	0
2-8-00505	01	COLDWATER CANYON- STRUCTURAL IMPROVMNTS	6,005,806	283,437	283,437	0	0	5,722,369	5,722,369	0	0	0	0
2-8-00002	05	MOCKINGBIRD CYN RESTORATION SUB-REACH 5	9,433,787					9,433,787	9,433,787	0	0	0	0
2-8-00060	02	NORTH MAIN STREET CHANNEL	3,274,385					3,274,385	3,274,385	0	0	0	0
2-8-00100	00	SANTA ANA RIVER - NORCO BLUFFS	100,000					100,000	100,000	0	0	0	0
2-8-00150	02	SOUTH NORCO CHANNEL	4,607,517					4,607,517	4,607,517	0	0	0	0
2-8-00164	01	NORCO MDP LINE S-2	904,023					904,023	904,023	0	0	0	0
2-8-00223	03	CORONA MDP SOUTH MAIN ST SD	1,285,906					1,285,906	1,285,906	0	0	0	0
2-8-00235	01	CORONA DRAINS LINE 9A	1,137,472					1,137,472	1,137,472	0	0	0	0
2-8-00280	01	CORONA MDP LINE 5	1,397,201					1,397,201	1,397,201	0	0	0	0
2-8-00324	01	EASTVALE MDP LINE E-1	3,221,733					3,221,733	0	3,221,733	0	0	0
2-8-09041	00	NORCO MDP LATERAL N-5	1,076,130					1,076,130	1,076,130	0	0	0	0
2-8-09054	00	E COMPTON WASH AT CORONA SANITARY LNDFLL	500,000					500,000	500,000	0	0	0	0
2-8-09058	00	LAKE MATHEWS ESTATES WATER QUALITY POND	2,794,983					2,794,983	2,794,983	0	0	0	0
2-8-09059	00	NORCO MDP LINE N-3	1,573,731					1,573,731	1,573,731	0	0	0	0
<b>ZONE 2 TOTALS</b>			<b>\$105,268,456</b>	<b>\$17,102,120</b>	<b>\$16,589,472</b>	<b>\$412,648</b>	<b>\$100,000</b>	<b>\$88,166,335</b>	<b>\$84,292,076</b>	<b>\$3,874,259</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

**FIVE YEAR CIP SUMMARY**

**FUND BALANCE FORWARD - JULY 1, 2017:**

Zone 2 Fund	\$74,273,531
ADP Sub Fund	4,302,240
<b>Total Fund Balance Forward</b>	<b>\$78,575,772</b>

**REVENUE:**

Taxes	\$91,225,000
Interest	2,353,000
ADP Fees	1,000
Rental	500
<b>Subtotal Revenue</b>	<b>93,579,500</b>
External Contribution	100,000
<b>Total Five Year Revenue</b>	<b>\$93,679,500</b>
<b>TOTAL FUNDS AVAILABLE</b>	<b>\$172,255,272</b>

**FIVE YEAR APPROPRIATIONS:**

D&C Capital Projects Expense	\$107,272,893
Capital Project Cost Inflation @ 2.8%	3,003,641
Water Conservation Projects Expense	20,811,000
Uncategorized/Other Contributions	13,776,000
Operating Expenses	24,653,000
Contingencies	1,900,000
ADP Refund - Lake Mathews ADP to MWD	51,200
<b>Subtotal Appropriations</b>	<b>\$171,467,734</b>

**ENDING FUND BALANCE - JUNE 30, 2022:**

Zone 2 Fund	\$693,571
ADP Sub Fund	93,967
<b>Total Ending Fund Balance</b>	<b>\$787,537</b>

**RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT  
OPERATIONS & MAINTENANCE BUDGET AND FIVE YEAR CIP PROJECT SUMMARY - ZONE 2  
FISCAL YEARS 2017-18 THROUGH 2021-22**

Project Number	Stg No.	Project Title	Budget Year 1 - FY 2017-18			CIP Years 2 through 5 - FY 2018-22		
			Project Appropriation	Project Specific Funding		Estimated Project Appropriation	Project Specific Funding	
				Tax Revenue	External Contrib		Tax Revenue	External Contrib
<b>O&amp;M MAINTENANCE (NON-CAPITAL PROJ) BUDGET - FY 2017-18:</b>								
2-6-00000	00	ZONE 2 MAINTENANCE	\$2,124,335	\$2,124,335	\$0	\$8,497,340	\$8,497,340	\$0
<b>WATER CONSERVATION PROJECTS:</b>								
2-6-10001	50	RECLAIMED WATER PIPELINE - FOOTHILL PARKWAY	187,000	187,000	0			
2-6-10002	50	CORONA TEMESCAL RECHARGE PLAN	700,000	700,000	0			
2-6-10003	50	RECLAIMED WATER PIPELINE - OLD TEMESCAL AVE	250,000	250,000	0			
2-6-10004	50	RECLAIMED WATER PIPELINE - LINCOLN AVE	250,000	250,000	0			
2-6-10005	50	RECLAIMED WATER PIPELINE - WRCRWA BLUFF ST	750,000	750,000	0			
2-6-10006	50	RECLAIMED WATER PIPELINE - RIVER RD	1,560,000	1,560,000	0			
2-6-10007	50	ARLINGTON BASIN GRANT (WMWD)	1,000,000	1,000,000	0			
2-6-10008	50	CORONA RANCH RECLAIMED WATER RESERVOIR				2,500,000	2,500,000	0
2-6-10009	50	SOUTH MAIN RECLAIMED WATER RESERVOIR				2,500,000	2,500,000	0
2-6-10010	50	RECLAIMED WATER PIPELINE - SOUTH MAIN STREET				200,000	200,000	0
2-6-10011	50	RECLAIMED WATER PIPELINE - NORCO HILLS ROAD				1,250,000	1,250,000	0
2-6-10012	50	LINCOLN/COTA STREET RECHARGE				1,250,000	1,250,000	0
2-6-10013	50	COLDWATER SUB BASIN ENCHANCED RECHG PROG				2,625,000	2,625,000	0
2-6-10014	50	RECLAIMED WATER PIPELINE - CA INDUSTRIAL COM				860,000	860,000	0
2-6-10015	50	COMMUNITY CENTER RECYCLED WATERLINE				840,000	840,000	0
2-6-10016	50	SNIPES PARK STORAGE RECLAIMED WATER RESERVIOR				600,000	600,000	0
2-6-10017	50	NORCO COLLEGE RECYCLED WATERLINE				400,000	400,000	0
2-6-10018	50	WATER CON PARTNERSHIP WITH JCSD				3,000,000	3,000,000	0
2-6-10019	50	EASTVALE COMMUNITY PARK WITH JCSD				89,000	89,000	0
<b>UNCATEGORIZED/OTHER CONTRIBUTIONS:</b>								
2-6-10000	00	FLOOD CONTROL BASIN RETROFIT STUDY	200,000	200,000	0			
2-6-10020	00	HYDROGEO TECHNICAL ANALYSIS	100,000	100,000	0			
2-6-10022	00	NORCO MINOR DRAINAGE IMPROVEMENTS	1,000,000	1,000,000	0	3,030,000	3,030,000	0
2-6-10021	00	MISCELLANEOUS WATERSHED PROTECTION PROJECTS				4,500,000	4,500,000	0
2-6-10023	00	NORCO LINE N, S, NB AND EASTVALE LINE E				2,946,000	2,946,000	0
2-6-10024	00	EASTVALE CHANDLER ST LATERAL AGREEMENT				2,000,000	2,000,000	0
<b>MAINT (NON-CAPITAL PROJ) BUDGET SUBTOTALS</b>			\$2,124,335	\$2,124,335	\$0	\$8,497,340	\$8,497,340	\$0
<b>WATER CONSERVATION PROJECTS</b>			4,697,000	4,697,000	0	16,114,000	16,114,000	0
<b>UNCATEGORIZED/OTHER CONTRIBUTIONS</b>			1,300,000	1,300,000	0	12,476,000	12,476,000	0
<b>ZONE 2 TOTALS</b>			<b>\$8,121,335</b>	<b>\$8,121,335</b>	<b>\$0</b>	<b>\$37,087,340</b>	<b>\$37,087,340</b>	<b>\$0</b>

**PROJECT NOTES FY 2017-2018**

**DESIGN & CONSTRUCTION/CIP PROJECTS**

<b>PROJ. NO.</b>	<b>STG.</b>	<b>DESCRIPTION</b>
2-8-00002	01	MOCKINGBIRD CANYON RESTORATION SUB-REACH 1 – District led project to provide streambank protection along Mockingbird Canyon Wash. Sub-reach 1 begins at Pennington Place and extends northwest along the existing Mockingbird Canyon Levee. The proposed improvements will provide flood protection to existing homes adjacent to the project, to Mockingbird Canyon Road, and utilities in the road. The drainage improvements consists of a rock-armored open channel sized to convey 100-year storm flows. The project is fully funded by the District.
2-8-00002*	05	MOCKINGBIRD CANYON RESTORATION SUB-REACH 5 – District led project to provide streambank protection along Mockingbird Canyon Wash. Sub-reach 5 begins at Greenview Drive and extends north to Van Buren Boulevard. The proposed improvements will provide flood protection to existing homes adjacent to the project, to Mockingbird Canyon Road, and utilities in the road. The drainage improvements consists of an earthen bottom open channel (with rock armored sideslopes) sized to convey 100-year storm flows. Sub-reach 5 also includes a debris basin sized to trap and reduce debris delivered to Mockingbird Reservoir. The project is fully funded by the District.
2-8-00052	01	TEMESCAL WASH FLOODPLAIN – District led project to acquire properties within the FEMA Zone A floodplain along Temescal Wash as a non-structural flood hazard mitigation program. The targeted acquisition area begins at the Zone 2 boundary, just south of Lake Street, and extends north to the upstream terminus of the existing Temescal Creek Channel in Corona. In the long term, the acquired parcels may also provide opportunities for preserving or restoring natural habitat, improving water quality, recharging groundwater aquifers, and/or providing for enhanced recreational opportunities. The project is fully funded by the District.
2-8-00060*	02	NORTH MAIN STREET CHANNEL – City of Corona design-build project to upgrade the existing City-owned open channel from Cota Street to the confluence with the existing Oak Street Channel. The project will provide flood protection to the existing City-owned buildings and facilities adjacent to the channel. The project is fully funded by the District.
2-8-00100*	00	SANTA ANA RIVER - NORCO BLUFFS – The bluff stabilization work, which was completed by the U.S. Army Corps of Engineers (USACE) in 2004, extends easterly from the Interstate 15 bridge to near Center Avenue and provides 100-year flood protection to the adjacent community. The project is cost shared with the USACE

**PROJECT NOTES FY 2017-2018**

**DESIGN & CONSTRUCTION/CIP PROJECTS**

<b>PROJ. NO.</b>	<b>STG.</b>	<b>DESCRIPTION</b>
		paying 75% and the District responsible for 25% of the cost plus betterments. Additional funding is being made available to assist USACE in completing the Operations and Maintenance Manual so that the project can be transferred to the District for ownership and maintenance.
2-8-00105	00	<p>SANTA ANA CANYON - BELOW PRADO – Flood control and environmental restoration project between the Prado Dam Outlet Channel and the Orange County line. District costs are in support of the U.S. Army Corps of Engineers (USACE) Santa Ana River Mainstem project for stream bank improvements, including completion of work related to the Brine Line Protection Project and Reach 9 Phases 2A and 2B and construction of the BNSF Bridge Protection Project.</p> <p>Project is cost shared via Local Cooperative Agreement between USACE, Riverside County, Orange County, and San Bernardino County. Additional funding is expected from Riverside County Transportation Commission (reimbursement for portions of Phase 2B utility relocations) per 2011 agreement. Majority of District costs in fiscal year will be related to right of way acquisition and utility relocation for the BNSF Bridge Protection Project.</p>
2-8-00110	90	<p>EL CERRITO CHANNEL RESTORATION – This project, led by the District, consists of replacing a section of the existing undersized concrete trapezoidal channel with a concrete rectangular channel. The project aims to alleviate any flooding that might occur during a 100-year storm event as well as provide an additional two feet of freeboard and ultimately remap the FEMA floodplain. The portion of channel that will be replaced is the most downstream reach of the El Cerrito Channel system beginning at the intersection of El Cerrito Road and Ontario Avenue/Temescal Road and thence downstream past Minnesota Road where it ultimately discharges into Temescal Wash. The project will be fully funded by the District.</p>
2-8-00140	11	<p>NORTH NORCO CHANNEL – District led project that will improve an existing channel to have 100-year flow capacity and significantly reduce the FEMA floodplain along the channel. It will convey flows from existing Line N-1 storm drain downstream to the existing confluence with Line NA. The project includes two infiltration basins to reduce pollutants in runoff collected from a total of 34 acres adjacent to the channel. The District is fully funding this project.</p>
2-8-00144	01	<p>NORTH NORCO CH LATERALS NC, NC-1, &amp; N-2 – District led project that will install an underground storm drain along Sixth Street,</p>

## PROJECT NOTES FY 2017-2018

### DESIGN & CONSTRUCTION/CIP PROJECTS

PROJ. NO.	STG.	DESCRIPTION
		Valley View Avenue, and Detroit Street. This project will collect the 100-year flows to reduce flooding along these streets and convey them into North Norco Channel. The District is fully funding these Laterals.
2-8-00145	03	NORCO MDP LINE NB – The District is lead for the project. The goal of the project is to replace the current interim dirt lined trapezoidal channel with a concrete facility with enough capacity to convey the 100-year flow rates. This will complete the Line NB system providing 100-year flood protection to the area and reducing erosion and associated maintenance costs. The project collects flows from previously constructed Stage 2 at Valley View Avenue and conveys these flows approximately 1,800 feet to the west before discharging into North Norco Channel between Sierra Avenue and Interstate 15. A portion of the project includes an armorflex lined invert that has 20% open area to allow for infiltration of low flows. This project is fully funded by the District.
2-8-00150*	02	SOUTH NORCO CHANNEL – District led project to upgrade a 1-mile section of unimproved earthen channel from Hamner Avenue to the confluence with South Norco Channel Line SB just east of River Road. The project will provide flood protection to thirty (30) residences and/or businesses adjacent to the channel, and remove flood insurance requirement for those properties currently within the FEMA Zone A floodplain. The project is fully funded by the District.
2-8-00150	06	<p>SOUTH NORCO CHANNEL &amp; NORCO MDP LINES S-1 &amp; S-5 – This is a District led project that will reduce flooding and remove properties from the floodplain between Second and Fourth Streets east of Corona Circle. It is expected to benefit both local residences, traffic, as well as benefit Norco Intermediate School and Norco High School.</p> <p>South Norco Channel, Stage 6 – This portion of the project will upgrade an existing interim dirt channel and replace it with 4,100 feet of soft bottom trapezoidal channel with concrete sideslopes. This system begins adjacent to Temescal Avenue at the Norco Intermediate School and conveys flows southerly past Norco High School where it begins to head westerly until it meets the existing improved channel at the intersection of Second Street and Corona Circle.</p> <p>Norco MDP Line S-1 – This lateral will collect runoff along Third Street east of Temescal Avenue, in an underground storm drain roughly 2,300 feet long and discharge this water into South Norco Channel.</p> <p>Norco MDP Line S-5 – This lateral will collect runoff along Hillside Avenue between Kingman Street and Hillside Lane and then convey it</p>

**PROJECT NOTES FY 2017-2018**

**DESIGN & CONSTRUCTION/CIP PROJECTS**

<b>PROJ. NO.</b>	<b>STG.</b>	<b>DESCRIPTION</b>
		<p>west within Hillside Lane, then southerly around Norco Intermediate School until it discharges into South Norco Channel.</p> <p>Total project is approximately two miles in length. District is funding 100% of the design and construction with the exception of certain waterline relocations which the City will fund. A cooperative funding agreement is being processed.</p>
2-8-00155	02	<p>NORCO LINE NA-1 AND LATERAL NA-1A – District led project requested by the City of Norco. The goal of the project is to reduce flooding and mud/debris issues in the neighborhood surrounding Crestview Drive and Mt. Rushmore Drive. Line NA-1 will collect runoff from the La Sierra Hills along Crestview Drive in an underground pipe and convey them southerly within Crestview Drive to the District's existing Line NA-1 facility. Lateral NA-1A will collect runoff along Mt. Rushmore Drive in an underground pipe and convey the flows to the proposed Line NA-1 facility at the intersection of Mt. Rushmore Drive and Crestview Drive. The District is also evaluating the feasibility of additional project elements such as debris basins and a collector channel to protect the community from mud/debris. This project is funded by the District.</p>
2-8-00164*	01	<p>NORCO MDP LINE S-2 – District led project to construct master planned storm drain to provide flood protection along to properties along Second Street. The project consists of an underground storm drain ranging in pipe diameter from 30 to 48 inches. The storm drain will collect runoff just east of Temescal Avenue and convey it to the existing South Norco Channel west of Corona Circle. The project is fully funded by the District.</p>
2-8-00223*	03	<p>CORONA MDP SOUTH MAIN ST SD – City design-build project to construct master planned storm drain to provide flood protection to residences along Main Street. The project includes an underground storm drain ranging in pipe diameter from 24 to 48 inches from Mission Road to the existing Line 1-G storm drain at East Olive Street. The project is fully funded by the District.</p>
2-8-00280*	01	<p>CORONA MDP LINE 5 – City design-build project to construct master planned storm drain to provide flood protection to businesses along Railroad Street and Sherman Avenue. The project consists of an underground storm drain ranging in pipe diameter from 30 to 54 inches. The storm drain proposes to collect runoff on Sherman Avenue, south of Railroad Street, and then extend westerly in Railroad Street to Smith Street and discharge into an existing City-owned storm drain. The project is fully funded by the District.</p>

**PROJECT NOTES FY 2017-2018**

**DESIGN & CONSTRUCTION/CIP PROJECTS**

<b>PROJ. NO.</b>	<b>STG.</b>	<b>DESCRIPTION</b>
2-8-00304	60	EASTVALE MDP LINE D (WATER QUALITY ENHANCEMENT) – A District led project to alleviate dry weather water quality concerns at its outfall. The proposed improvements are located in Eastvale just west of Interstate 15 where Cobble Creek Drive dead ends near the Santa Ana River. The District is proposing to install a water quality basin which will treat the dry weather flows through infiltration. The project is fully funded by the District.
2-8-00310	60	EASTVALE MDP LINE E (WATER QUALITY ENHANCEMENT) – A District led project to alleviate dry weather water quality concerns at its outfall. The proposed improvements are located in Eastvale just west of Interstate 15 at the intersection of Kern River Drive and Rivertrails Drive. The District is proposing to install a bio-retention facility BMP at this site to mitigate high bacteria within the channel. The project is fully funded by the District.
2-8-00324*	01	EASTVALE MDP LINE E-1 – This project is a master planned storm drain as part of the Line E system in the adopted Eastvale MDP/ADP. The project has been included in the District's 5-year CIP to track the current balance of Eastvale ADP funds. Designation of these funds will be determined in cooperation with the City of Eastvale as more information becomes available on the current drainage needs in the city, specifically those needs that would be addressed through the construction of Line E system storm drains.
2-8-00350	01	CORONA MDP LINE 52 – An underground storm drain extending north from Third Street along E. Grand Boulevard then under the 91 Freeway to Temescal Creek Channel along Joy Street. Project will reduce flooding along Joy Street and Grand Boulevard. City of Corona to design and construct. District to fund both. (Per Cooperative Agreement City and District to share operations and maintenance). Project is currently anticipated to begin construction in June 2017.
2-8-00505	01	COLDWATER CANYON STRUCTURAL IMPROVEMENTS – District led project proposed to 1) reduce flood risk and nuisance to traveling public on Temescal Canyon Road at the intersection of Glen Ivy Road; and 2) prevent the migration of the active Coldwater Wash channel, thereby protecting the west side of the Mountain Cove Development. The District hired JE Fuller Hydrology and Geomorphology, Inc. to conduct a geomorphology study and develop a conceptual plan of proposed improvements needed to address drainage concerns along the wash. Conceptual improvements may include an armored berm along the east bank of Coldwater Wash downstream of the intersection of Temescal Canyon Road and Glen Ivy Road, additional culverts under Temescal Canyon Road, and a

## PROJECT NOTES FY 2017-2018

### DESIGN & CONSTRUCTION/CIP PROJECTS

<b>PROJ. NO.</b>	<b>STG.</b>	<b>DESCRIPTION</b>
		friendly acquisition of the underlying parcels needed for the project. Project funding shown in the District's 5-year CIP is for any structural improvements recommended in the conceptual plan and/or right of way needed for the project. However, actual funding allocation may be adjusted when more detailed project information is available.
2-8-09041	00	NORCO MDP LATERAL N-5 – District led project to construct a master planned storm drain to provide flood protection to residences along Valley View Avenue. The project consists of an underground storm drain ranging in pipe diameter from 30 to 42 inches. The project will collect runoff along Valley View Avenue, south of Fourth Street, and convey it to the existing North Norco Channel at Third Street, west of Interstate 15. The project is fully funded by the District.
2-8-09054	00	SOUTHEAST COMPTON WASH AT CORONA SANITARY LANDFILL – This project is led by the Riverside County Department of Waste Resources to address ongoing flooding and erosion problems along the south side of a closed landfill in the city of Corona. The proposed improvements include armoring along the southern boundary of the landfill from Interstate 15 to Sherborn Street. The District will contribute \$500,000 toward construction of the project. Riverside County Waste Resources will design, construct, and maintain the drainage improvements.
2-8-09058	00	LAKE MATHEWS ESTATES WATER QUALITY POND – District led project to construct water quality pond proposed in the adopted Lake Mathews Area Drainage Plan. The proposed pond is an off-channel diversion facility that would treat nuisance flow or runoff during small storm events, and retain the water to pump it into the irrigation system of the proposed golf course adjacent to the project site. The project is fully funded by the District.
2-8-09059	00	NORCO MDP LINE N-3 – District led project to construct a master planned storm drain to provide flood protection to residences along 5 <sup>th</sup> Street in the city of Norco. The project consists of an underground storm drain along 5 <sup>th</sup> Street ranging in pipe diameter from 36 to 66 inches. The project will collect runoff at Corona Avenue and convey it to the existing North Norco Channel on the east side of Interstate 15. The project is fully funded by the District.

\* Projects with an asterisk following the Project Number are not included in the FY 2017-2018 budget (CIP Year One), but are included in Years Two through Five of the CIP.



**PROJECT NOTES FY 2017-2018**

**OPERATIONS & MAINTENANCE (NON-CAPITAL PROJECTS)**

<b>PROJ. NO.</b>	<b>STG.</b>	<b>DESCRIPTION</b>
2-6-00000	00	GENERAL ZONE 2 MAINTENANCE – Annual maintenance of all Zone 2 projects, except major restoration or reconstruction.
2-6-00208	01	CORONA - SOUTH VICTORIA AVENUE STORM DRAIN – City of Corona design-build project to reduce flooding along Victoria Avenue. The project consists of an underground storm drain pipe ranging in diameter from 24 to 36 inches proposed to collect runoff at 7 <sup>th</sup> Street and convey it to the existing culvert under the 91 Freeway. The project is fully funded by the District.
2-6-00209	01	SOUTH JOY STREET STORM DRAIN – City of Corona design-build project to reduce flooding along Joy Street. The project consists of an underground storm drain pipe ranging in diameter from 24 to 36 inches proposed to collect runoff at 6 <sup>th</sup> Street and convey it to the existing culvert under the 91 Freeway. The project is fully funded by the District.
2-6-00210	01	CORONA - EAST GRAND BLVD STORM DRAIN – Underground storm drain that will reduce flooding along Grand Boulevard from the 91 Freeway upstream to 7 <sup>th</sup> Street. City of Corona to design and construct the facility. District to fund both. Cooperative Agreement executed March 2011. City to operate and maintain.
2-6-00235	01	CORONA DRAINS LINE 9-A – City design-build project to construct a master planned storm drain to provide flood protection to businesses and residences along Magnolia Avenue. The project consists of an underground storm drain ranging in pipe diameter from 24 to 33 inches. The project will collect runoff at Kellogg Avenue and convey it to the existing storm drain in Magnolia Avenue ending at Mt. Wilson. The project is fully funded by the District.

**PROJECT NOTES FY 2017-2018**

**WATER CONSERVATION CONTRIBUTIONS**

<b>PROJ. NO.</b>	<b>STG.</b>	<b>DESCRIPTION</b>
2-6-10001	50	RECLAIMED WATER PIPELINE - FOOTHILL PARKWAY – City of Corona design-build project to improve the City's reclaimed water network. The project consists of a reclaimed waterline to help stabilize the Temescal Groundwater Basin. This will provide reclaimed water to several large developments, parkways, and landscaped areas. The District will fund 50% of the construction contract.
2-6-10002	50	CORONA TEMESCAL RECHARGE PLAN – City of Corona project planning effort. The main function of the effort is to plan the optimal way to recharge the Temescal Groundwater Basin. The District will contribute to this planning effort by the City.
2-6-10003	50	RECLAIMED WATER PIPELINE - OLD TEMESCAL AVENUE – City of Corona design-build project to improve the City's reclaimed water network. This project includes the construction of a reclaimed water pipeline to reduce imported water, conserve the local groundwater supply, and stabilize the Temescal Groundwater Basin. The District will fund 50% of the construction contract.
2-6-10004	50	RECLAIMED WATER PIPELINE - LINCOLN AVENUE – City of Corona design-build project to improve the City's reclaimed water network. This project includes the construction of a reclaimed water pipeline to reduce imported water, conserve the local groundwater supply, and stabilize the Temescal Groundwater Basin. The District will fund 50% of the construction contract.
2-6-10005	50	RECLAIMED WATER PIPELINE - WRCRWA BLUFF STREET – City of Corona design-build project to improve the City's reclaimed water network. This project includes the construction of a reclaimed water pipeline to reduce imported water, conserve the local groundwater supply, and stabilize the Temescal Groundwater Basin. The District will fund 50% of the design and construction.
2-6-10006	50	RECLAIMED WATER PIPELINE - RIVER ROAD – City of Corona design-build project to improve the City's reclaimed water network. This project includes the construction of a reclaimed water pipeline to reduce imported water, conserve the local groundwater supply, and stabilize the Temescal Groundwater Basin. The District will fund 50% of the construction.

**PROJECT NOTES FY 2017-2018**

**WATER CONSERVATION CONTRIBUTIONS**

<b>PROJ. NO.</b>	<b>STG.</b>	<b>DESCRIPTION</b>
2-6-10007	50	ARLINGTON BASIN GRANT (WMWD) – Western Municipal Water District design-build project to facilitate the construction of recharge facilities in the Arlington area and the expansion of the Arlington Desalter Project. After multiple locations analyzed in the Arlington area, only one recharge facility was selected. The District will contribute \$1.0 million toward project construction.
2-6-10008	50	CORONA RANCH RECLAIMED WATER RESERVOIR – City of Corona design-build project of a 2.1 million gallon concrete reclaimed water reservoir and associated pipelines to facilitate delivery of reclaimed water for secondary use. The District will fund 50% of the construction contract.
2-6-10009	50	SOUTH MAIN RECLAIMED WATER RESERVOIR – City of Corona design-build project of a 2.1 million gallon concrete reclaimed water reservoir and associated pipelines to facilitate delivery of reclaimed water for secondary use. The District will fund 50% of the construction contract.
2-6-10010	50	RECLAIMED WATER PIPELINE - SOUTH MAIN STREET – City of Corona design-build project to improve the City's reclaimed water network. This project includes the construction of a reclaimed water pipeline to reduce imported water, conserve the local groundwater supply, and stabilize the Temescal Groundwater Basin. The District will fund 50% of the construction contract.
2-6-10011	50	RECLAIMED WATER PIPELINE - NORCO HILLS ROAD – City of Norco design-build project to improve the City's reclaimed water network. This project includes the construction of a reclaimed water pipeline to reduce imported water, conserve the local groundwater supply, and stabilize the Temescal Groundwater Basin. The District will fund 50% of the construction contract.
2-6-10012	50	LINCOLN/COTA STREET RECHARGE – City of Corona design-build project to improve the City's stormwater recharge from Temescal Creek Channel to City's existing infiltration ponds. This project could potentially reduce imported water, conserve the local groundwater supply, and stabilize the Temescal Groundwater Basin. The District will fund 50% of the design and construction contract.

**PROJECT NOTES FY 2017-2018**

**WATER CONSERVATION CONTRIBUTIONS**

<b>PROJ. NO.</b>	<b>STG.</b>	<b>DESCRIPTION</b>
2-6-10013	50	COLDWATER SUB-BASIN ENHANCED RECHARGE PROGRAM – City of Corona design-build project to improve existing recharge ponds and flooding issues near Glen Ivy Road. The City will prepare plans and environmental documents necessary to rehabilitate stormwater recharge ponds. The District will fund 50% of design and construction costs.
2-6-10014	50	RECLAIMED WATER PIPELINE - CALIFORNIA INDUSTRIAL COMPLEX – City of Corona design-build project to improve the City's reclaimed water network. This project includes the construction of a reclaimed water pipeline to reduce imported water, conserve the local groundwater supply, and stabilize the Temescal Groundwater Basin. The District will fund 50% of the construction contract.
2-6-10015	50	COMMUNITY CENTER RECYCLED WATERLINE – City of Norco design-build project to improve the City's reclaimed water network. This project includes the construction of a reclaimed water pipeline to reduce imported water. The system will provide water to parks, schools, and freeway corridor. The District will fund 50% of the construction contract.
2-6-10016	50	SNIPES PARK STORAGE RECLAIMED WATER RESERVOIR – City of Norco design-build project of a 500,000 gallon reclaimed water reservoir and associated pipelines, and booster station to facilitate delivery of reclaimed water. The District will fund 50% of the construction contract.
2-6-10017	50	NORCO COLLEGE RECYCLED WATERLINE – City of Norco design-build project to improve the City's reclaimed water network. This project includes the construction of a reclaimed water pipeline to reduce imported water. The District will fund 50% of the construction contract.
2-6-10018	50	WATER CONSERVATION PARTNERSHIP WITH JURUPA COMMUNITY SERVICES DISTRICT (JCS D) – JCS D design-build project for a regional solution to enhance reclaimed water use and distribution. The reclaimed water will be used in Eastvale and other service areas. The District will fund \$3 million of the construction contract.

**PROJECT NOTES FY 2017-2018**

**WATER CONSERVATION CONTRIBUTIONS**

<b>PROJ. NO.</b>	<b>STG.</b>	<b>DESCRIPTION</b>
2-6-10019	50	EASTVALE COMMUNITY PARK WITH JURUPA COMMUNITY SERVICES DISTRICT (JCSD) – JCSD design-build project of a community park. The District will fund the construction cost of the park's water quality post construction structural best management practices.

## PROJECT NOTES FY 2017-2018

### UNCATEGORIZED/OTHER CONTRIBUTIONS

<b>PROJ. NO.</b>	<b>STG.</b>	<b>DESCRIPTION</b>
2-6-10000	00	FLOOD CONTROL BASIN RETROFIT STUDY – The District is evaluating existing infrastructure to determine feasibility of stormwater/urban runoff capture. The result of this study could help determine partnerships with Water Districts within Riverside County and help utilize stormwater and urban runoff as resource.
2-6-10020	00	HYDROGEOTECHNICAL ANALYSIS – Resources allocated to hire geotechnical engineers to test existing District facilities for groundwater recharge potential.
2-6-10021	00	MISCELLANEOUS WATERSHED PROTECTION PROJECTS – Resources allocated to the identification and development of potential partnerships for future multi-benefit projects addressing flood hazard reduction, water conservation, water quality and/or other water resource needs.
2-6-10022	00	<p>NORCO MINOR DRAINAGE IMPROVEMENTS – City of Norco led project to design and construct several underground storm drains within the Norco Master Drainage Plan. The proposed drainage facilities include:</p> <ul style="list-style-type: none"><li>• Andalusian Drive at Reservoir Numbers 6 and 7</li><li>• Burger Basket Lateral from Hamner Avenue, east approximately 400 feet to Westside Channel</li><li>• Bluff Street from River Road, east approximately 2,000 feet</li><li>• Corona Avenue approximately 650 feet south to MDP Line</li><li>• Norco MDP Line N-1C – extension of Norco MDP Line N-1C southerly on Pedley Avenue approximately 1,460 feet</li><li>• Norco MDP Line ND – extension of Norco MDP Line ND southerly on California Avenue approximately 975 linear feet</li><li>• Line N-7 Phase 2 – approximately 1,800 feet from Reservoir Drive to I-15</li><li>• Lateral in Temescal Avenue – from River Drive south approximately 1,200 feet to the MDP Lateral N-1</li><li>• Riverview Elementary School – in Pedley Avenue approximately 500 feet north to MDP Lateral ND-1</li><li>• Crestview Drive – in Crestview Drive approximately 1,500 feet from Eighth Street north to Arlington Avenue</li><li>• Parmenter Park – park is on Reservoir Drive; storm drain line would be approximately 600 feet north to MDP Lateral NB-3</li></ul>

The proposed flood control facilities will resolve flooding/ponding issues within the city. Upon completion of construction, the City will accept sole responsibility for the ownership, operation and maintenance

**PROJECT NOTES FY 2017-2018**

**UNCATEGORIZED/OTHER CONTRIBUTIONS**

<b>PROJ. NO.</b>	<b>STG.</b>	<b>DESCRIPTION</b>
		of the flood control facilities. The District will fund up to \$4,030,000 toward the design and construction of the drainage facilities.
2-6-10023	00	<p>NORCO LINES N, S, NB, AND EASTVALE LINE E City of Norco led project to design and construct several underground storm drains within the Norco Master Drainage Plan. The proposed drainage facilities include:</p> <ul style="list-style-type: none"><li>• Norco MDP Line N-7 - a storm drain system from Valley View Avenue westerly approximately 200 lineal feet to an existing storm drain system</li><li>• Norco MDP Lateral S-5A - a storm drain system from Kingman Drive southwesterly for approximately 250 lineal feet to Hillside Lane</li><li>• Norco MDP Line S-6 - a storm drain system from Temescal Avenue north of Second Street (approximately at Norco High School) westerly approximately 600 lineal feet to the existing South Norco Channel</li><li>• Norco MDP Line NB-2 - approximately 750 lineal feet of storm drain system located in Temescal Avenue from south of Wrangler Way to the District's existing Norco MDP Line NB</li><li>• Norco MDP Line N-1A - approximately 1,200 lineal feet of storm drain system located in Center Avenue south of the intersection of Center Avenue and Seventh Street</li><li>• Norco MDP Line N-IB - approximately 1,685 lineal feet of storm drain system located in Hillside Avenue south of the intersection of Hillside Avenue and Seventh Street</li><li>• Norco MDP Line N-IE - approximately 450 lineal feet of storm drain system located in Center Avenue from north of Seventh Street</li><li>• Eastvale MDP Line E-3 - approximately 1,500 lineal feet of storm drain system in Hamner Avenue from north of Citrus Street</li></ul> <p>The proposed flood control facilities will improve drainage within the city. Upon completion of construction, the City will accept sole responsibility for the ownership, operation and maintenance of the flood control facilities. The District will fund up to \$2,946,000 toward the design and construction of the drainage facilities.</p>
2-6-10024	00	EASTVALE CHANDLER STREET LATERAL AGREEMENT – City of Eastvale led project to design and construct several underground

**PROJECT NOTES FY 2017-2018**

**UNCATEGORIZED/OTHER CONTRIBUTIONS**

<b>PROJ. NO.</b>	<b>STG.</b>	<b>DESCRIPTION</b>
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storm drains within the Eastvale Master Drainage Plan. The proposed drainage facilities include:

- Chandler Street Channel: Hall and Selby Avenue Laterals
- Eastvale Master Drainage Plan Line F-1: Hall and Selby Avenue Laterals
- Eastvale Master Drainage Plan Line E: 58<sup>th</sup> Street and Swan Lake Laterals
- Eastvale Master Drainage Plan Line E: Hamner Avenue Laterals
- Santa Ana River-Presido Road Storm Drain: Citrus Street Laterals

The proposed flood control facilities will resolve flooding/ponding issues that were not addressed when Developer constructed projects were built. Upon completion of construction, the City will accept sole responsibility for the ownership, operation and maintenance of the flood control facilities. The District will fund up to \$2,000,000 toward the design and construction of the drainage facilities.