

**RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
DESIGN & CONSTRUCTION AND FIVE YEAR CIP PROJECT SUMMARY - ZONE 4
FISCAL YEARS 2018-19 THROUGH 2022-23**

Project Number	Stg No.	Project Title	Total Remaining Cost to Deliver Project	Budget Year 1 - FY 2018-19			CIP Years 2 through 5 - FY 2019-23				Total Post CIP Balance	Total Not District Funded	
				Project Appropriation	Project Specific Funding		Estimated Project Cost	Project Specific Funding					
					Tax Revenue	ADP Contrib		External Contrib	Tax Revenue	ADP Contrib			External Contrib
4-8-00011	03	HEACOCK CH-SUNNYMEAD LINE B	9,703,083	\$9,072,044	\$8,070,044	\$1,002,000	\$0	\$631,039	\$0	\$0	\$3,756,409	\$0	-
4-8-00013	01	SUNNYMEAD-CACTUS AVE CHANNEL	7,797,000	211,659	211,659	0	0	3,788,341	3,788,341	0	0	0	(3,797,000)
4-8-00020	03	SAN JACINTO RIVER	76,310,000	700,000	700,000	0	0	700,000	700,000	0	0	0	(74,910,000)
4-8-00020	04	SAN JACINTO RIVER	30,922,061	1,201,433	1,201,433	0	0	13,198,567	13,188,309	10,258	0	0	(16,522,061)
4-8-00030	50	BAUTISTA CRK CH (RCHRG BASIN EXPANSIO	1,517,375	1,517,375	1,007,375	0	510,000	0	0	0	0	0	-
4-8-00251	01	SAN JACINTO MDP LINES E-2 & E-2A	5,714,000	1,570,000	1,570,000	0	0	0	0	0	0	0	(4,144,000)
4-8-00330	00	GREEN ACRES DAM & OUTLET	12,241,825	519,486	519,486	0	0	11,722,339	11,722,339	0	0	0	-
4-8-00331	01	LAKEVIEW NUEVO MDP LATERAL D	6,993,609	266,043	252,743	13,300	0	6,727,566	6,727,566	0	0	0	-
4-8-00365	01	SUNNYMEAD LN M-11 EXT (FLAMING ARROW	365,094	365,094	365,094	0	0	0	0	0	0	0	-
4-8-00400	01	MORENO MDP LINE F-2 & F-18	5,719,289	2,246,873	2,246,873	0	0	19,268	19,268	0	0	0	(3,453,148)
4-8-00431	02	ROMOLAND MDP, LINE A-3 STAGE 2	2,953,406	145,042	120,842	24,200	0	2,808,364	2,808,364	0	0	0	-
4-8-00614	02	SUNNYMEAD MDP LINE B-16A	1,690,748	171,905	171,905	0	0	1,518,843	1,518,843	0	0	0	-
4-8-00745	01	MORENO-ALESSANDRO INTRM FACILITY (DS	216,788	216,788	216,788	0	0	0	0	0	0	0	-
4-8-00766	03	MORENO MDP LINE K-1 STG 3 & LINE K-4	3,292,294	589,595	\$366,095	223,500	0	652,699	652,699	0	0	0	(2,050,000)
4-8-09061	00	PERRIS VALLEY MDP LINE E	9,524,771	3,638,175	\$0	3,638,175	0	0	0	0	0	0	(5,886,596)
4-8-09068	00	WEST HEMET MDP INTERIM OPTIONS EVALU	18,100,000	500,000	\$500,000	0	0	0	0	0	0	0	(17,600,000)
4-8-00010	02	PERRIS VALLEY CHANNEL	632,221					632,221	0	632,221	0	0	-
4-8-00265	02	LITTLE LAKE MDP LINE B STG 2	6,880,877					6,880,877	6,871,677	9,200	0	0	-
4-8-00410	01	MEAD VALLEY MDP LINE A	6,295,585					1,000,000	1,000,000	0	0	0	(5,295,585)
4-8-00431	03	ROMOLAND MDP, LINE A-3 STAGE 3	2,500,871					2,500,871	2,500,871	0	0	0	-
4-8-00766	01	MORENO MDP LINE K-1 STG 1/2	2,603,750					728,750	728,750	0	0	0	(1,875,000)
4-8-09077	00	GOOD HOPE OLIVE STREET STORM DRAIN	7,302,244					7,302,244	7,302,244	0	0	0	-
ZONE 4 TOTALS			\$219,276,891	\$22,931,512	\$17,520,337	\$4,901,175	\$510,000	\$60,811,989	\$59,529,271	\$651,679	\$3,756,409	-	(135,533,390)

FIVE YEAR CIP SUMMARY

FUND BALANCE FORWARD - JULY 1, 2018:

Zone 4 Fund	\$37,162,458
ADP Sub Fund	4,897,634
Total Fund Balance Forward	\$42,060,092

REVENUE:

Taxes	\$95,064,000
Interest	2,123,000
ADP Fees	100,000
Rental	39,000
Subtotal Revenue	97,326,000
External Contribution	4,266,409
Total Five Year Revenue	\$101,592,409
TOTAL FUNDS AVAILABLE	\$143,652,501

APPROPRIATIONS:

D&C Capital Projects Expense	\$84,367,135
Capital Project Cost Inflation @ 2.4%	2,024,811
Uncategorized//Other Contributions	615,000
Operating Expenses	39,427,075
Contingencies	1,891,714
Debt Service Payment - Promissory Note	14,141,250
Subtotal Appropriations	\$142,466,986

ENDING FUND BALANCE - JUNE 30, 2023:

Zone 4 Fund	493,525
ADP Sub Fund	691,989
Total Ending Fund Balance	1,185,515

**RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
OPERATIONS & MAINTENANCE BUDGET AND FIVE YEAR CIP PROJECT SUMMARY - ZONE 4
FISCAL YEARS 2018-19 THROUGH 2022-23**

Project Number	Stg No.	Project Title	Budget Year 1 - FY 2018-19			CIP Years 2 through 5 - FY 2019-23		
			Appropriated Project Cost	Project Specific Funding		Estimated Project Cost	Project Specific Funding	
				Tax Revenue	External Contrib		Tax Revenue	External Contrib
O&M MAINTENANCE (NON-CAPITAL PROJ) BUDGET - FY 2018-19:								
4-6-00000	00	ZONE 4 MAINTENANCE	\$4,455,452	\$4,455,452	\$0	\$17,821,808	\$17,821,808	\$0
UNCATEGORIZED /OTHER CONTRIBUTIONS:								
4-6-10020	00	HYDROGEO TECHNICAL ANALYSIS	100,000	100,000		0	0	0
4-6-10021	00	MISCELLANEOUS WATERSHED PROTECTION PROJECTS	0	0		515,000	515,000	0
MAINT (NON-CAPITAL PROJ) BUDGET SUBTOTALS			\$4,455,452	\$4,455,452	\$0	\$17,821,808	\$17,821,808	\$0
UNCATEGORIZED /OTHER CONTRIBUTIONS			100,000	100,000	0	515,000	515,000	0
ZONE 4 TOTALS			\$4,555,452	\$4,555,452	\$0	\$18,336,808	\$18,336,808	\$0

PROJECT NOTES FY 2018-2019

DESIGN & CONSTRUCTION/CIP PROJECTS

PROJ. NO.	STG.	DESCRIPTION
4-8-00010*	02	<p>PERRIS VALLEY CHANNEL – Open channel proposed in the adopted Perris Valley Channel MDP/ADP to provide flood protection to the city of Perris and also serve as the outlet for existing and proposed storm drains in the cities of Perris and Moreno Valley. The project has been included in the District's 5-year CIP to track Perris Valley ADP funds. Segments of the channel will be constructed when sufficient ADP funds become available.</p>
4-8-00011	03	<p>HEACOCK CHANNEL - SUNNYMEAD LINE B – Stages 3 and 4 are under construction and the contractor expects to be complete in Fiscal Year 2018-2019. The project was developed and funded jointly by March Joint Powers Authority (MJPA), the City of Moreno Valley, March Air Reserve Base, and the District.</p> <p>The project will remove residential and commercial properties from the floodplain located east of the channel along Heacock Street between Delphinium Avenue and Krameria Avenue and will reduce flooding along Heacock Street. The project will collect water along Heacock Street beginning at Cactus Avenue, and convey it in an open channel heading south along the west side of Heacock Street, and discharge these flows into existing Perris Valley Channel Lateral A.</p>
4-8-00013	01	<p>SUNNYMEAD - CACTUS AVENUE CHANNEL – This project is proposed as a partnership between the District, March Joint Powers Authority (MJPA), March Air Reserve Base, the City of Moreno Valley, and two development interests on MJPA land to construct a storm drain along the south side of Cactus Avenue. It will collect flows beginning at Elsworth Street and convey them 1.5 miles easterly to Heacock Channel. The project will provide flood protection to the properties south of Cactus Avenue including March Air Reserve Base and MJPA land, provide a District maintained system that will also provide better drainage for storm drains north of Cactus Avenue, and reduce the danger of avian populations on flight operations at the March Air Reserve Base by reducing unmaintained flood prone areas that can attract birds.</p> <p>The form of the project and the cooperative funding details are being negotiated. The project is partially funded by the District and it is anticipated that remaining project costs will be covered by the other project partners.</p>
4-8-00020	03	<p>SAN JACINTO RIVER – Stage 3 is a District led project to develop a conceptual drainage improvement plan along the San Jacinto River from Ramona Expressway to Railroad Canyon. The goal of the plan is</p>

PROJECT NOTES FY 2018-2019

DESIGN & CONSTRUCTION/CIP PROJECTS

PROJ. NO.	STG.	DESCRIPTION
		to provide flood protection to critical transportation facilities, alleviate drainage concerns in the city of Perris, advance implementation of the Western Riverside MSHCP, and accommodate certain land development activity within the floodplain fringe. Funding in the CIP is designated toward preparation of a master drainage plan and environmental analysis needed to comply with CEQA.
4-8-00020	04	SAN JACINTO RIVER – Stage 4 is a joint venture with the City of San Jacinto. It was conceived as a multi-year plan to construct the ultimate levee system (approximately 1,200 foot river bottom width) between the existing Corps of Engineers levee 9,500 feet upstream of State Street and a point 8,200 feet downstream of Sanderson Avenue. Project not fully funded in CIP.
4-8-00030	50	BAUTISTA CREEK CHANNEL (RECHARGE BASIN EXPANSION) – This project is a partnership between the District and Lake Hemet Municipal Water District (LHMWD) with both agencies contributing funding. This project will also receive funding from the Proposition 84 state grant administered by the California State Department of Water Resources. The goal of this project is to expand groundwater recharge within the area by constructing six recharge basins on 17.5 acres of District owned open space located adjacent to Bautista Creek Channel. During wet weather, storm flows will be able to be diverted into these basins. During dry periods, surplus imported water will be piped into the new basins by LHMWD. Once constructed, LHMWD will be responsible for the ongoing operations and maintenance of the project.
4-8-00251	01	SAN JACINTO MDP LINES E-2 & E-2A – City of San Jacinto led project to provide flood protection to properties along State Street. The project consists of an underground storm drain ranging in pipe diameter from 30 to 72 inches that will collect 10-year storm runoff at Menlo Avenue and convey it north to the existing San Jacinto Line E improved channel. The District will contribute up to \$1.57 million toward design and construction of the project, and the Cities of San Jacinto and Hemet will fund the remaining cost.
4-8-00265*	02	LITTLE LAKE MDP LINE B – Stage 2 is a District led project to expand flood protection to residences along and west of Meridian Street in the unincorporated Little Lake area. The project consists of an underground storm drain along Meridian Street ranging in pipe diameter from 36 to 84 inches that will collect runoff at Whittier Avenue and convey it to the existing storm drain at Florida Avenue.

PROJECT NOTES FY 2018-2019

DESIGN & CONSTRUCTION/CIP PROJECTS

PROJ. NO.	STG.	DESCRIPTION
4-8-00330	00	GREEN ACRES DAM AND OUTLET –This District led project will be to construct a dam within the unincorporated portion of the County near the city of Hemet. The project will reduce flooding within the Green Acres community near the intersection of Highways 74 and 79. Following the project, a FEMA mapped floodplain should be able to be reduced or eliminated, saving residents money on flood insurance.
4-8-00331*	01	LAKEVIEW/NUEVO MDP LATERAL D – The goal of this District led project is to provide an outlet for Lakeview Dam which could allow the removal of a 100-year FEMA floodplain downstream of the dam. It may additionally allow reduction of portions of an Ordinance 457 floodplain that is currently affecting Water Avenue. The project collects flow from Lakeview Dam, conveys it to an underground pipe west down Water Avenue, and discharges into existing Nuevo Channel at Yucca Avenue and 11 th Street.
4-8-00365	01	SUNNYMEAD LINE M-11 EXTENSION (FLAMING ARROW STORM DRAIN) – This project is a partnership between the District and the City of Moreno Valley. A cooperative agreement is being developed to state that the District will design the project and provide construction funding (estimated at \$290,000) to the City; and the City will obtain right of way, environmental clearances, and construct, operate and maintain the project. The goal of this project is to capture runoff that is flooding the properties along St. Christopher Lane and along the northerly (back) property line of homes along Sweet Grass Drive. The project will construct a storm drain to intercept these flows, and convey them along Sweet Grass Drive and Flaming Arrow Drive, to an existing City owned storm drain at Bay Avenue and Flaming Arrow Drive.
4-8-00400	01	MORENO MDP LINES F-2 & F-18 – In order to reduce street flooding and provide flood protection to adjacent homes, this project would construct Line F-18 to convey flows in Alessandro Boulevard from Merwin Street to Redlands Boulevard, and replace existing Line F-2 southerly along Redlands Boulevard to existing Line F. The underground storm drain system will be capable of conveying 100-year flows. The City of Moreno Valley was planning to administer design and construction of the project using FEMA grant funds and District funding. Recent developments (after submittal of the budget) indicate that the FEMA funding may not be available, so the District will be re-evaluating the viability of this project.
4-8-00410	01	MEAD VALLEY MDP LINE A – District led project that would ultimately construct a master planned open channel from Brown Street

PROJECT NOTES FY 2018-2019

DESIGN & CONSTRUCTION/CIP PROJECTS

PROJ. NO.	STG.	DESCRIPTION
		to Alexander Street to provide flood protection and serve as the outlet for the proposed drainage system in the unincorporated community of Mead Valley. This project is not fully funded. Funding allocated in the District's 5-year CIP is intended for the voluntary acquisition of properties along the facility alignment.
4-8-00431	02	ROMOLAND MDP LINE A-3 – This is a District led project that will extend the existing Line A-3 system in Palomar Road, north from Case Road to Highway 74. This extension is building toward the much longer Line A-3 system that will ultimately collect water along Valera Lane and convey it in an open channel heading west and then heading south along Palomar Road in an underground storm drain into the existing Romoland MDP Line A. The project has an executed Cooperative Agreement with the City of Menifee.
4-8-00431	03	ROMOLAND MDP LINE A-3 – This District led project further builds upon the Stage 2 project described above, and will extend the underground storm drain north under Highway 74 to Varela Lane, along Palomar Road.
4-8-00614	02	SUNNYMEAD MDP LINE B-16A – District led project in the city of Moreno Valley to reduce flooding problems along Kitching Street and the surrounding community. Line B-16A will collect runoff from Kalmia Avenue and convey it south along Kitching Street in an underground storm drain which discharges to an existing storm drain at Ironwood Avenue. Implementation of the project may also reduce erosion and sediment accumulation along Kitching Street. The District will design and construction the project, and the City will take over the maintenance after construction. District is funding the design and construction of the storm drain, and additional coordination with the City regarding right of way acquisition and street improvements are ongoing.
4-8-00745	01	MORENO-ALESSANDRO INTERIM FACILITY – The District is the lead of the interim facility that aims to minimize sediment accumulation in the parking lot of Discovery Church in Moreno Valley. The budget allows for the District to design the facility and provide construction funding. The City of Moreno Valley will construct, obtain the right of way necessary, and operate and maintain the project.
4-8-00766	01	MORENO MDP LINE K-1 – This City led project will convey 100-year flows in an underground storm drain from Juniper Avenue down Pettit Street (Stage 2), then in Stage 1 west in Ironwood Avenue past Moreno Beach Drive to Line K. Project will reduce local flooding by

PROJECT NOTES FY 2018-2019

DESIGN & CONSTRUCTION/CIP PROJECTS

PROJ. NO.	STG.	DESCRIPTION
		conveying flows toward Nason Basin and provide an adequate outlet for future storm drains upstream. This project is being led by the City of Moreno Valley using funding from FEMA grants and a \$625,000 contribution from the District.
4-8-00766	03	MORENO MDP LINE K-1 AND LINE K-4 – In order to improve the floodplain and reduce flood risk to adjacent homes, this City led project will construct an underground storm drain that will convey 100-year flows in Line K-4 in Locust Avenue to Line K-1 south in Carrie Lane, west in Kalmia Avenue, then south in Pettit Street to an outlet just past Juniper Avenue. In a 2014 cost share agreement between the District and the City of Moreno Valley, the District committed to contribute \$500,000 for design and construction. Pursuant to the City request in 2016, additional funds have been budgeted for this project pending an updated cost share agreement. The total District contribution for this project is budgeted at \$1,050,000.
4-8-09061	00	PERRIS VALLEY MDP LINE E – This City led project involves the construction of an open channel on the north side of Ramona Expressway to alleviate flooding at the intersection of Ramona Expressway and Perris Boulevard, and serve as an outlet for existing storm drains that have been constructed in the area. The project will collect runoff in the vicinity of Brennan Avenue and convey it eastward to Perris Valley Channel at Oleander Avenue. The total project cost is estimated to be more than \$9M. The District is providing partial funding toward the overall project using available Area Drainage Plan funds. Approximately \$3,500,000 is programmed for contribution to the City's efforts. Remaining funds necessary for the project are being secured by the City.
4-8-09068	00	WEST HEMET MDP - INTERIM OPTIONS EVALUATION – The City of Hemet has proposed construction of a network of storm drain facilities that would serve similar functions as envisioned in the West Hemet MDP. One goal of the improvements proposed would help resolve recurrent flooding problems near Seattle Street, in the city of Hemet. The District has earmarked funding to assist the City with refining their proposal and identifying interim measures that can help address the problems near Seattle Street without causing new problems elsewhere downstream.
4-8-09077	00	GOOD HOPE OLIVE STREET STORM DRAIN – District led project to provide flood protection for the neighborhood south of Olive Street between Quail Drive and Theda Street in the unincorporated Good Hope community. The project consists of an underground storm drain that

PROJECT NOTES FY 2018-2019

DESIGN & CONSTRUCTION/CIP PROJECTS

PROJ. NO.	STG.	DESCRIPTION
		will collect storm flows along Olive Street and convey them to an existing culvert at Highway 74 just east of Theda Street. Funding for the project has been included in the 5-year CIP pending further engineering scoping, analysis, and design to finalize the project scope and identify opportunities for phased construction.

* Projects with an asterisk following the Project Number are not included in the FY 2018-2019 budget (CIP Year One), but are included in Years Two through Five of the CIP.

PROJECT NOTES FY 2018-2019

WATER CONSERVATION CONTRIBUTIONS

PROJ. NO.	STG.	DESCRIPTION
4-6-00000	00	GENERAL ZONE 4 MAINTENANCE – Annual maintenance of all Zone 4 projects, except major restoration or reconstruction.

PROJECT NOTES FY 2018-2019

UNCATEGORIZED/OTHER CONTRIBUTIONS

PROJ. NO.	STG.	DESCRIPTION
4-6-10020	00	HYDROGEOTECHNICAL ANALYSIS – Resources allocated to hire geotechnical engineers to test existing District facilities for groundwater recharge potential.
4-6-10021	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.