RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

Public Budget Hearing – Zone 1

Monday, January 26, 2015

AGENDA

1. Receive requests from interested parties for projects for Fiscal Year 2015-2016.
2. Oral communication from the audience.
Zone 1

Report to the Zone Commissioners
Design and Construction Projects
for Calendar Year 2014
By Dusty Williams, General Manager-Chief Engineer
January 2015

GENERAL:

District-wide New Project Construction - Throughout the District (all Zones) during Calendar Year 2014, the District issued Notices of Completion for four capital projects totaling about four million dollars. However, as Calendar Year 2014 closes, we have seven projects underway totaling almost 32 million dollars in construction contracts. Calendar Year 2015 will be another blockbuster year and is slated for an additional forty million dollars in construction contract activity. During 2014, the District also issued Notices of Completion for six developer- and City-built projects with a total value of over $12 million dollars.

Water Conservation
District-wide General Activities - Over the course of this past year, District staff met with regional water agencies in an effort to understand the use and condition of local groundwater basins and to promote joint stormwater recharge projects. The data collected from this effort fed the launch of our Stormwater and Water Conservation Geodatabase system (rivco.permitrack.com) and 12 groundwater fact sheets intended to further facilitate joint-use stormwater management planning and projects. The Geodatabase system is also designed to assist the Cities, County and developers with addressing flood control and National Pollutant Discharge Elimination System (NPDES) stormwater quality requirements.

Arlington Desalter Phase 2 Expansion - In 2012, the District and Western Municipal Water District (WMWD) successfully pursued a Proposition 84 grant to fund the construction of up to three groundwater recharge basins within the Arlington Groundwater Basin. The basins will intercept stormwater and dry weather flow tributary to Southwest Riverside Line H and flows tributary to Arlington Channel near Van Buren. The basins could recharge up to 1,800 acre-feet of surface flows per year and will offset impacts of additional pumping associated with the future expansion of the Arlington Desalter project. A cooperative agreement is under development and WMWD is in the process of acquiring necessary rights-of-way.

Monroe Basin (1-8-0071-90) - The District is proposing modifications to the dual-use Monroe Basin to facilitate capture and recharge dry weather flows from upstream agricultural and urban areas. The recharge project may further enhance recharge of the Arlington Groundwater Basin and reduce nuisance conditions impacting the operation of Monroe Park.

Mockingbird Canyon Reservoir Dredging Project - On May 6, 2014, the District amended a cooperative agreement with the City of Riverside for the Mockingbird Canyon Reservoir dredging project. The revised project focused on clearing the obstructed outlet works and restoring some of the storage capacity (~15,000 acre-feet) within the City's reservoir. Work on the project was completed this summer.

District facility operations – The District is in the process of evaluating the operation of its existing dams, debris basins and detention basins to determine if groundwater recharge potential can be
enhanced. Ongoing actions include excavating sinuous low flow paths for dry weather and small storm flows, excavating small retention ponds within basin footprints and increased frequency of cleaning and scarification of basin inverts.

**STATUS SUMMARY OF THE CURRENT YEAR CAPITAL PROJECTS (BUDGETED FY 2014/2015):**

- **Sycamore Dam Outlet Modification (1-8-00042-90)** - The project is located in the city of Riverside, southeast of the intersection of Central Avenue and Chicago Avenue. This project will upgrade the level of safety and serviceability for Sycamore Dam, one of seven Division of Safety of Dams (DSOD) jurisdictional reservoirs constructed in the 1950s and 60s in Riverside. A Preliminary Design Report has been substantially completed and initial project components have been identified, including the repair/reinforcement of the existing outlet channel, construction of a new debris rack structure, erosion controls on the embankment of the dam, construction of a safer access road into the facility, design for a safer routing of floodwaters from the emergency spillway to Central Avenue, and the installation of a control section to measure outflow from the outlet pipe of the dam. Completion of this project is planned to follow the Woodcrest Dam Outlet Modification project.
Woodcrest Dam Outlet Modification (1-8-00045-90) - This project will upgrade the level of safety and serviceability for Woodcrest Dam; one of seven Division of Safety of Dams (DSOD) jurisdictional Reservoirs constructed in the 1950s and 60s in Riverside. The approved Project Charter identifies the primary scope of work for the project as follows: design and construction of a new inlet structure to reduce potential for clogging of the outlet works, rehabilitation of the existing outlet gate assembly and control stem, implementation of an automated gate control system, rehabilitation of the outlet pipe, restoration of the outlet channel, and installation of surficial erosion controls on the surface of the dam embankment.

The District is working on a Preliminary Design Report, which is expected to be complete early 2015. Once constructed, this project will serve as an example for performing similar upgrades to the remaining Riverside Reservoirs.
• **Monroe MDP – Monroe Channel Rehabilitation (1-8-00071-04)** – This is a project within the city of Riverside, which would replace the City of Riverside's existing channel from Magnolia Avenue to California Avenue with an underground reinforced concrete box at the request of the City of Riverside. After much deliberation, a least disruptive alternative facility has been selected and final engineering will start in winter of 2014 with final construction plans expected in early 2015.

Currently, the City wants to incorporate above-ground features into the design of the project which will play a part in the completion date. Barring any issues, the project is slated to be advertised spring of 2015.
- Monroe Bypass Storm Drain (1-8-00071-90) - Monroe Bypass Storm Drain project consists of two primary elements: A low flow bypass storm drain in Monroe Street, and infiltration improvements within Monroe Basin. This project is intended to lessen the impacts of dry weather flows and small storm events to the public park that is located within Monroe Flood Detention Basin, and to reduce the discharge of dry weather flows downstream to the Santa Ana River.

The proposed 48-inch bypass pipe will connect the existing Basin Inlet and Outlet pipes that lie west of the park, under Monroe Street. Currently runoff that enters the basin from the west can cause a local nuisance for park users, as the runoff traverses a concrete energy dissipation area before being dischared to the downstream storm drain. This bypass pipe will reduce this nuisance by allowing small runoff events to bypass the basin.

As part of the District's commitment to reduce the discharge of dry weather flows and bacteria into the Santa Ana River, this project will also construct infiltration enhancements within the basin. These infiltration enhancements will help reduce dry weather runoff from the two inlets at the East end of Monroe Basin, and reduce the potential for discharge of bacteria to the Santa Ana River.

The Project Charter was completed in 2014. A Preliminary Environmental Assessment Report and topographic mapping of the infiltration area are in process, and design will continue through 2015.

- Monroe Monroe MDP Line E Stages 2 and 3 (1-8-00073-02&03) – The proposed Line E Stage 2 system, which includes the Line E-5 lateral, begins downstream at the existing Line E, Stage 1 at the intersection of Gratton Street and Lincoln Avenue and continues south along Gratton Street for approximately 4,255 lineal feet. Line E-5 begins at the corner of Gratton Street and Dufferin Avenue and extends eastward along Dufferin for approximately 1,380 lineal feet. The proposed Line E, Stage 3 system, which includes the Line E-2 lateral, begins at the intersection of Gratton Street and Dufferin Avenue at the downstream terminus and continues south along Gratton Street for approximately 3,335 lineal feet onto Hermosa Road, extending from the intersection of Gratton Street and Hermosa Road eastward approximately 2,230 additional lineal feet would be the Line E-2 lateral.

The District and the City of Riverside are in the process of ironing out the terms of a cooperative agreement. The District would be funding the design and construction cost of the project. The City of Riverside would be executing the design, and will also advertise and administer the construction contract. Upon completion, the District will accept facilities for Operation and Maintenance. At press time, the City has received mapping and hydrology report from the District to begin the design work.
Pyrite Channel Bypass (1-8-00109-01) – This project is within the City of Jurupa Valley and is approximately 1,600-foot long low flow diversion drain within Pyrite Avenue to collect flows from the District's existing concrete-lined Pyrite Channel and deliver it to the District's existing concrete-lined Jurupa Channel that parallels Jurupa Road. The hydraulic capacity of the diversion drain is dictated by geometric constraints at utilities, the railroad, and Jurupa Channel capacity downstream of its junction with this project. The project will not collect the entire Q₁₀₀ but will provide substantial relief to properties which are affected due to frequent flooding especially those properties located along Villa Wood Drive south of Galena. The project also included roadway improvement which was funded by the City of Jurupa Valley. Construction on the project started spring of 2015 and the project is now complete and accepted into the District's system of maintained facilities.
University MDP University Wash (1-8-00120-03) - This project will extend the existing University Wash upstream of Spruce Street to the intersection of Massachusetts Avenue and Durahart Street. Design plans are at 90% and the cooperative agreement with the city of Riverside is in the works. Right-of-Way negotiations with the impacted property owners are nearly concluded. Environmental process has been completed. The storm drain alignment crosses what would eventually be an abandoned rail line but still under Union Pacific RR ownership. Negotiations with the railroad are moving favorably forward (but slowly). The project is expected to advertise in early summer of 2015.

Mockingbird Canyon Wash (1-8-00185-00) - Mockingbird Canyon Wash has been severely damaged during large storm events over the past four decades, most recently in December 2010. Damage has been significant, affecting public and private drainage facilities, as well as roads; repairs have been costly. A portion of this damage may be attributed to various improvements and encroachments that occurred as the area has developed.

The best long-term solution appears to be the streambank stabilization of Mockingbird Canyon Wash. The District hired JE Fuller Hydrology and Geomorphology, Inc. to study the wash and identify key locations where grade stabilization structures would be needed. JE Fuller has completed the initial assessment of the wash, the existing condition hydraulics and sediment transport models, and is currently working on the proposed conceptual level management/remediation plan to stabilize the wash. Work is expected to be completed by Spring 2015.
Southwest Riverside Line G, G-1, F-1 (1-8-00319-01) - This is a project within the City of Riverside. Line G Stage 2 extends the Line G stage 1 project from Lincoln Avenue southerly to Victoria Avenue in Meyers Street. It also includes Lateral G-1 which runs east along Victoria Avenue to Van Buren Boulevard and Lateral F-1 which runs west along Victoria Avenue to Harrison Street. The District and the City of Riverside executed a cooperative agreement in March 2012 in which it was agreed for the District to fund the design and construction of the facility and the city to design and administer the construction of the facility. Upon completion, the District will accept mainline facilities for Operation and Maintenance. City of Riverside advertised the job and Mamco Inc. (Alabbasi) is the apparent lowest bidder at $3,194,851.46 for the storm drain portion of the project.
# Riverside County Flood Control and Water Conservation District

## Zone 1 – Financial Information

### Tax Revenue – 5 Year History

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<td><strong>Total Zone Tax Revenue</strong></td>
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### Sources

- Property Taxes - 72%
- Charges for Services - 5%
- State - 1%
- Use of Money & Property - 2%
- Other - 20%

### Uses

- Property Taxes - 72%
- Charges for Services - 5%
- State - 1%
- Use of Money & Property - 2%
- Other - 20%

### Expenditures

- Salaries and Benefits - 40%
- Services and Supplies - 59%
- Capital Assets - 1%
- Other Financing Uses - 0%

### Property Tax Revenue History

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Design and Construction Proposed Budget and Five Year CIP Projects: Zone 1

Legend:
- Zone 1 Boundary
- CIP Projects in Construction
- Year 1 CIP Projects
- Years 2-5 CIP Projects
- CIP Projects Completed
- City of Riverside
- City of Eastvale
- City of Jurupa Valley
- City of Norco
- City of Corona
- Unincorporated
- Freeways and Highways
- Santa Ana River