

# CITY OF SPRINGFIELD

## 2013 - 2014 CAPITAL BUDGET

<u>PROJECTS</u>	<u>FUNDING</u>	<u>FUND</u>	<u>AMOUNT</u>
<b><u>Stormwater Capital Improvements</u></b>			
1. <u>South 59th St., Aster, &amp; Daisy Street Drainage</u>	SDC Local Storm Improvement Fund	440	\$209,000
	TOTAL		\$209,000
Description: Phase 1 of this project is to install 350 feet of 42 inch storm sewer in the area of South 59th Street and Aster Street. Phase 2 will be to install additional parallel stormwater pipe in Daisy Street to provide additional capacity.			
2. <u>Island Park</u>	Drainage Capital Fund	425	\$237,000
	SDC Local Storm Improvement Fund	440	\$228,000
	Dedicated Capital Fund Reserve	425R	\$1,400,000
	TOTAL		\$1,865,000
Description: These projects are intended to improve stormwater quality from urban runoff in two heavily trafficked downtown drainage basins. Stormwater from these basins drain to the Springfield Mill Race and the Island Park Slough, both of which have significantly impaired water quality.			
3. <u>Drainage Repair</u>	Drainage Capital Fund	425	\$200,000
	TOTAL		\$200,000
Description: This project involves the rehabilitation of Springfield drainage system to repair or replace older pipe in the system and solve flooding problems. This project also includes rehabilitation of catch basins and culverts to prevent flooding and reduce street surface failures due to poor drainage.			
4. <u>Metro Waterways Study</u>	Drainage Capital Fund	425	\$45,000
	SDC Local Storm Improvement Fund	440	\$225,000
	TOTAL		\$270,000
Description: Springfield is participating, along with Eugene and Lane County, in an ongoing Army Corps of Engineers General Investigation Study authorized under the Water Resources Development Act. Springfield's share (25%) of this three year, \$3,500,000 project is estimated to be \$875,000. The current project is a feasibility study necessary to identify future water quality projects within the Eugene/Springfield metropolitan watershed. CIP projects, such as Channel Improvements, Flood Plain Mapping (currently underway) and McKenzie Oxbow will qualify as in-kind match and satisfy the balance of the local obligation. The Cedar Creek Drainage Basin has been identified as the initial project in the Metro Waterways Study.			
5. <u>Channel Improvement</u>	Drainage Capital Fund	425	\$583,000
	SDC Local Storm Improvement Fund	440	\$8,000
	SDC Local Storm Reimbursement Fund	441	\$35,000
	TOTAL		\$626,000
Description: This project is intended to provide improvements to key drainage ways to address barriers to fish passage, and to correct previous channel modifications that have caused deterioration of water quality and fish habitat functions. The improvements include culvert replacements or retrofits, road crossing and outfall modifications and channel restoration.			
6. <u>Implement MS4 Permit Requirements</u>	Drainage Capital Fund	425	\$15,000
	SDC Local Storm Reimbursement Fund	441	\$15,000
	TOTAL		\$30,000
Description: Develop and implement programs and projects to comply with the National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer (MS4) Discharge permit.			

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7. <u>Riparian Land Management/Acquisition</u>	Drainage Capital Fund	425	\$33,000
	SDC Local Storm Improvement Fund	440	\$242,650
	SDC Local Storm Reimbursement Fund	441	\$16,000
	TOTAL		\$291,650
Description: This project provides funding for consultant services to evaluate riparian buffer areas, City and other activities affecting them, and for purchase of riparian area lands from private property owners where needed to meet City regulatory objectives for stormwater management, flood control and habitat protection.			
8. <u>Stormwater Facilities Master Plan</u>	Drainage Capital Fund	425	\$85,000
	SDC Local Storm Improvement Fund	440	\$85,000
	TOTAL		\$170,000
Description: Provides consultant services to update the current City-wide Stormwater Facility Master Plan to address stormwater conveyance and quality management throughout the City and its urbanizable area.			
9. <u>Booth Kelly Storm Water Drainage Plan Implementation</u>	Booth Kelly Fund	425	\$299,000
		618	\$50,000
	TOTAL		\$349,000
Description: Drainage master plan implementation for the Booth Kelly site.			
10. <u>Gray Creek Flow Enhancements</u>	SDC Local Storm Improvement Fund Reserve	440R	\$149,176
	TOTAL		\$149,176
Description: Design and construct Channel improvements to relieve flooding in Gray Creek and to provide capacity for anticipated flows from future developments.			
11. <u>Glenwood Blvd. Drainage Improvements</u>	SDC Local Storm Improvement Fund	425	\$50,000
	TOTAL		\$50,000
Description: The City owns the Glenwood Boulevard Bridge over the Union Pacific Railroad tracks. Staff has determined that the existing measures for collecting stormwater runoff from Glenwood Boulevard and the Bridge are insufficient to protect the bridge and supporting embankments from water and erosion damage. This project involves installing new drainage infrastructure on the southerly approach to the Bridge to intercept the water and convey it safely down slope.			
12. <u>Millrace Study/Design</u>	Drainage Capital Fund	425	\$65,000
	TOTAL	425	\$138,000
Description: Continuation of the design and construction of new flow control requirements for the Millrace, mandated by federal and state regulators.			
13. <u>Channel 6</u>	Drainage Capital Fund	425	\$457,000
	SDC Local Storm Improvement Fund	440	\$16,000
	TOTAL		\$473,000
Description: Improvements to the existing storm drainage pipes and channel, a proposed by-pass pipe, and construction of a new regional detention facility.			
14. <u>Fire Station Washrack</u>	Drainage Capital Fund	425	\$1,000
	TOTAL		\$1,000
Description: This project creates basic vehicle wash facilities at each fire house to ensure that vehicle washwater does not enter the storm system. Presently, three of five stations have been completed with Station #4 and Station #14 remaining.			

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<u>PROJECTS</u>	<u>FUNDING</u>	<u>FUND</u>	<u>AMOUNT</u>
15. <u>Mill Race Stormwater Facility</u>	Drainage Capital Fund	425	\$491,000
	SDC Local Storm Improvement Fund	440	\$80,000
	Dedicated Capital Fund Reserve	425R	\$1,254,500
	TOTAL		<u>\$1,825,500</u>
Description: Stormwater treatment facility as part of the Mill Race Restoration Project located on land immediately north of the present Mill Pond.			
16. <u>Jasper-Natron</u>	Drainage Capital Fund	425	\$220,000
	Dedicated Capital Fund Reserve	425R	\$500,000
	TOTAL		<u>\$720,000</u>
Description: The funding provided in the capital budget is for the first phase of a estimated \$4,000,000 need. The first phase is of this project provides additional studies to identify the downstream impacts and design the project and its mitigation measures.			
17. <u>Over/Under Channel</u>	Drainage Capital Fund	425	\$1,839,000
	TOTAL		<u>\$1,839,000</u>
Description: The Over-Under Channel system includes about 3,900 linear feet of corrugated metal arch pipe (CMP) under the existing channel. This project is intended to replace the existing CMP with a new pipe, as well as provide a parallel pipe for additional capacity as recommended in the 2008 Stormwater Facility Master Plan.			
18. <u>Cedar Creek (Intake Reconstruction)</u>	Dedicated Capital Fund Reserve	425R	\$500,000
	TOTAL		<u>\$500,000</u>
Description: This project, the first of those identified in the multi-year study (Metro Waterways Study), is the reconstruction of the intake structure and associated channel improvements to the inlet of Cedar Creek from the McKenzie River.			
19. <u>Lower Mill Race</u>	Drainage Capital Fund	425	\$180,000
	Dedicated Capital Fund Reserve	425R	\$900,000
	TOTAL		<u>\$1,080,000</u>
Description: Construct a daylight or diversion pretreatment structure, an offline water quality treatment facility, and a green pipe open channel improvement. Additional detail for this multi-faceted project are in WQ-12 project of the Stormwater Facilities Master Plan.			
20. <u>Channel 6 FIRM Update</u>	Drainage Capital Fund	425	\$19,000
	TOTAL		<u>\$19,000</u>
Description: Using consulting services, prepare a scope document for a new flood plain study to update the Flood Insurance Rate Map (FIRM) for SCS Channel 6 from 10th Street to the I-5 Channel to incorporate numerous construction changes that have occurred along SCS Channel 6 in the past 40 years.			
21. <u>Mill Race FIRM Update</u>	Drainage Capital Fund	425	\$19,000
	TOTAL		<u>\$19,000</u>
Description: Using consulting services, prepare a scope document for a new flood plain study to update the Flood Insurance Rate Map (FIRM) for the Springfield Mill Race from the inlet at Clearwater Park to the outlet at Island Park to incorporate construction changes.			
22. <u>42nd Street Dike Study</u>	Drainage Capital Fund	425	\$49,000
	TOTAL		<u>\$49,000</u>
Description: Conduct a study of the condition of the High Banks Road (42nd Street) Dike to identify any structural or non-structural deficiencies and to evaluate the potential for obtaining federal accreditation of this Dike as a flood control facility under the National Flood Insurance Program and for compliance with the National Levee Safety Program.			
<b>Total Stormwater Improvements</b>			<u><b>\$10,938,326</b></u>

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<u>PROJECTS</u>	<u>FUNDING</u>	<u>FUND</u>	<u>AMOUNT</u>
<b><u>Wastewater Capital Improvements</u></b>			
1. <u>S. 2nd Street Sewer Replacement</u>	Local Wastewater Capital Fund	409	\$1,000,000
	TOTAL		\$1,000,000
Description: Replace the sanitary sewer line in S. 2nd Street, upgrading a portion of the line from 8 inch to 12 inch to better accommodate the permitted industrial discharges, as well as the future Harbor Drive Pump Station. The project will also correct identified grade issues as well as inflow/infiltration concerns.			
2. <u>10th and "N" Street Upgrade</u>	Local Wastewater Capital Fund	409	\$3,316,000
	TOTAL		\$3,316,000
Description: Construct approximately 6,500 linear feet of 24 inch wastewater pipe parallel to the existing 24 inch wastewater pipe. This project will require the line to be bored under Highway 126. This project is identified in the 2008 Wastewater Master Plan as a priority project to eliminate potential sanitary sewer overflows.			
3. <u>58th Street Flow Control Facility</u>	Local Wastewater Capital Fund	409	\$660,000
	TOTAL		\$660,000
Description: Construct approximately 4,900 linear feet of 15 inch wastewater pipe as a wet weather flow control facility. This project is identified in the 2008 Wastewater Master Plan as a priority project to eliminate potential sanitary sewer overflows.			
4. <u>Wastewater Master Plan Update</u>	Local Wastewater Capital Fund	409	\$43,000
	SDC Local Wastewater Improvement Fund	443	\$42,000
	TOTAL		\$85,000
Description: Provides funding for planned 5 year review and update of the 2008 Wastewater Master Plan.			
5. <u>Jasper Road Trunk Sewer</u>	Local Wastewater Capital Fund	409	\$981,000
	TOTAL		\$981,000
Description: Design of 18,000 feet of 27 to 10 inch diameter sewer along Jasper Road from 42nd Street to Natron. This budget allocation will also fund the purchase of easements for the future construction project.			
6. <u>Sanitary Sewer Repair</u>	SDC Local Wastewater Reimbursement Fund	409	\$212,000
	TOTAL		\$212,000
Description: This project involves the contracted repair or replacement of sanitary sewers to Natron. This budget allocation will also fund the purchase of easements for the future construction project.			
7. <u>Hayden Lo Pump Station</u>	Local Wastewater Capital Fund	409	\$200,000
	TOTAL		\$200,000
Description: The 2008 Wastewater Master Plan recommends that the existing pump station be upgraded to provide 2 pumps with a minimum of 494 gpm capacity each.			
8. <u>River Glen Pump Station</u>	Local Wastewater Capital Fund	409	\$250,000
	TOTAL		\$250,000
Description: The 2008 Wastewater Master Plan recommends that the existing pump station be upgraded to provide 2 pumps with a minimum of 664 gpm capacity each.			

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<u>PROJECTS</u>	<u>FUNDING</u>	<u>FUND</u>	<u>AMOUNT</u>
9. <u>Franklin Boulevard Sewer Ext.</u>	Local Wastewater Capital Fund	409	\$590,000
	Dedicated Capital Fund Reserve	409R	\$2,373,000
	TOTAL		\$2,963,000
Description: This Project expands the Glenwood wastewater system from the existing 30 inch trunk line in Franklin Boulevard south with approximately 3,900 feet of 15 inch pipe and 2,400 feet of 8 inch pipe. Wastewater trunk lines are typically cleaned annually and video inspected by maintenance every five years.			
10. <u>E. 17th Avenue Sewer</u>	Local Wastewater Capital Fund	409	\$105,000
	TOTAL		\$105,000
Description: Properties along the south side of E. 17th Avenue in Glenwood, between Glenwood Boulevard and Henderson Avenue, do not have public wastewater service available. The City and Lane County have entered into an Intergovernmental Agreement (IGA) in 2011 for pavement rehabilitation and jurisdiction transfer of Glenwood Boulevard. This IGA includes the option for the City to pay the County for pavement rehabilitation of this segment of E. 17th Avenue if the City has funds available. City desires to install the needed public wastewater line prior to the pavement rehabilitation in 2014.			
<b>Total Wastewater Improvements</b>			<b>\$9,772,000</b>
<b><u>Transportation and Street Capital Improvements</u></b>			
1. <u>Transportation Demand Project</u>	SDC Transportation Improvement Fund	447	\$66,000
	TOTAL		\$66,000
Description: Participate in regional demand management program to create a transportation management area in the Gateway/PeaceHealth part of the City. The City is required to provide matching funds.			
4. <u>Traffic Control Projects</u>	SDC Transportation Reimbursement Fund	446	\$0
	SDC Transportation Improvement Fund	447	\$185,000
	TOTAL		\$185,000
Description: This project is for installation of new traffic signals and modification of existing signals or installation of roundabouts at various intersections in town. Potential candidate intersections include: Thurston Rd. and 66th St., S. 42nd St. and Daisy St., S. 42nd St. and Jasper Rd., 42nd and Marcola Rd. The modification of signals may include change to permissive left turn at some existing signalized intersections.			
5. <u>Gateway Area Traffic Improvements</u>	SDC Transportation Improvement Fund	447R	\$384,500
	TOTAL		\$384,500
Description: Transportation improvements at various locations in the Gateway area to increase capacity, relieve congestion, and improve safety			
7. <u>Beltline/Gateway Intersection</u>	SDC Transportation Improvement Fund	447	\$133,000
	TOTAL	447R	\$205,000
	TOTAL		\$338,000
Description: Intersection improvements at Gateway/Beltline and surrounding intersections, including construction of a couplet and purchase of right-of-way. CIP project funding contributes to overall project estimate of \$30 million. Presently Phase 1 improvements are being constructed.			

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<u>PROJECTS</u>	<u>FUNDING</u>	<u>FUND</u>	<u>AMOUNT</u>
9. <u>Franklin NEPA</u>	SDC Transportation Improvement Fund	420	\$0
		447	\$15,027
	TOTAL		\$15,027
Description: Complete project refinement, including National Environmental Policy Act (NEPA) documentation for future improvements to Franklin Boulevard, the Franklin/Glenwood and Franklin/McVay intersections to support Glenwood redevelopment and regional mobility for transit, bicycles/pedestrians, and autos. Contribute to the required local match for any federal funding received.			
11. <u>ITS - Gateway/Beltline</u>	Development Projects Fund	447	\$3,450
	TOTAL		\$3,450
Description: ITS projects in various locations to increase communications, capacity, safety and traveler information. Funding is set aside in this program and as projects are identified that fit into this category they are given an individual account and at that time another source of funding will be identified to match the allowable SDC funds. This funding is set aside to support the communications for the Gateway/Beltline Project.			
12. <u>Glenwood Boulevard Bridge Repairs</u>	Development Projects Fund	434	\$4,000
	TOTAL		\$4,000
Description: The City owns the Glenwood Boulevard Bridge over the Union Pacific Railroad tracks. Staff has determined that the joints between the bridge deck and the adjoining pavement are insufficient to protect the bridge deck and pavement from damage due to thermal expansion and contraction.			
13. <u>South Bank Viaduct Extension</u>	Street Capital Fund	434	\$83,000
	SDC Transportation Improvement Fund	447	\$5,000
	TOTAL		\$88,000
Description: The Glenwood Connector Path Extension (GCPE) is located along the south bank of the Willamette River between the Oldham property on the north side of Franklin Boulevard and the Glenwood Blvd. intersection. The Glenwood Connector Path Extension temporarily connects the Glenwood Connector Path to Franklin Blvd., until the planned Glenwood Riverfront Path is constructed.			
14. <u>Street Light Pole Test, Treat &amp; Replace</u>	Development Projects Fund	434	\$25,000
	TOTAL		\$25,000
Description: Test and treat light poles at 10 year intervals and replace rotting poles and broken conduits in the City owned street light system.			
15. <u>S. 42nd Street Reserve</u>	Street Capital Fund	434R	\$170,896
	TOTAL		\$170,896
Description: Money set aside from the State deposit for jurisdictional transfer. This money is set aside for future preservation activities on S. 42nd Street.			
<b>Total Transportation and Street Improvements</b>			<b>\$1,279,873</b>

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<u>PROJECTS</u>	<u>FUNDING</u>	<u>FUND</u>	<u>AMOUNT</u>
 <b><u>Building and Facilities Capital Improvements</u></b>			
1. <u>Building Preservation</u>	Building Preservation Fund	420	\$194,007
	TOTAL		\$194,007
Description: Perform preservation, maintenance and repair projects on City-owned buildings, including City Hall, Fire Stations, Museum, Justice Center, and Maintenance Facilities. Projects can include the repair, renovation or replacement of structural, mechanical, electrical, and plumbing systems. Other projects can include painting, roofing, lighting, alarm and elevator projects as well as repair and/or upgrades to aesthetic and architectural elements.			
2. <u>Justice Center</u>	Planned Facilities	428	\$155,578
	TOTAL		\$155,578
Description: Major maintenance contracted activities and unanticipated emergency facility equipment replacement. There is a fund balance maintained in the event of a major, unforeseen expenditure. It is anticipated that more funds are needed and will be added once identified.			
2. <u>Booth Kelly Roof Repair</u>	Booth Kelly Fund	618	\$100,000
	TOTAL		\$100,000
Description: Structural repair and improvements to the Booth-Kelly Center buildings.			
3. <u>Booth Kelly Building Repair</u>	Booth Kelly Fund	618	\$40,000
	TOTAL		\$40,000
Description: Repair a small building at the Booth Kelly site. This project is related to the Mill Race Restoration Project.			
4. <u>Firing Range Decommissioning</u>	Drainage Capital Fund	425	\$75,000
	TOTAL		\$75,000
Description: This project involves the clean-up of the outdoor firing range formerly used by the Police Department, including lead mining, removal of miscellaneous materials, and overall environmental assessment of the site.			
5. <u>Booth Kelly Water Isolation and Repair</u>	Booth Kelly Fund	618	\$30,000
	TOTAL		\$30,000
Description: This project will consist of a water isolation analysis to the Booth Kelly Complex grounds in order to locate a slow water leakage.			
6. <u>Booth Kelly Facilities Assessment and Plan</u>	Booth Kelly Fund	618	\$30,000
	TOTAL		\$30,000
Description: Hire a consultant to do a comprehensive assement of the Booth Kelly facilities and produce a report with necessary repair work prioritized.			
<b>Total Building and Facilities Improvements</b>			<b>\$624,585</b>

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<u>PROJECTS</u>	<u>FUNDING</u>	<u>FUND</u>	<u>AMOUNT</u>
 <b><u>Miscellaneous Capital Improvements</u></b>			
1. <u>City Participation in Private Projects</u>			
	SDC Transportation Reimbursement Fund	446	\$0
	SDC Local Wastewater Reimbursement Fund	442	\$33,000
	SDC Local Storm Reimbursement Fund	441	\$0
	SDC Transportation Improvement Fund	447	\$35,000
	SDC Local Wastewater Improvement Fund	443	\$34,000
	Drainage Capital Fund	425	\$34,000
	Local Wastewater Capital Fund	409	\$0
	SDC Local Storm Improvement Fund	440	\$28,000
	TOTAL		\$164,000
Description: City cost participation in public improvements constructed in private developments under the City's Construction Permit process. To respond to known and potential private development projects, it is necessary to budget \$100,000 each fiscal year in each infrastructure program area, i.e. Transportation, Local Wastewater and Stormwater, and the programmed funds for FY11 are only those necessary to meet that need. Currently other programmed funds are not yet tied to specific projects.			
2. <u>Special Projects</u>	Development Projects Fund	420	\$30,000
	TOTAL		\$30,000
Description: Special Projects provides funding for FY11 Economic Development and related projects in which the City may wish to participate. The City Manager manages the Special Projects budget.			
3. <u>Topographic ReMapping</u>			
	Local Wastewater Capital Fund	409	\$21,000
	Drainage Capital Fund	425	\$21,000
	Street Capital Fund	434	\$21,000
	SDC Local Storm Improvement	440	\$13,000
	SDC Local Wastewater Improvement Fund	443	\$51,000
	SDC Local Wastewater Reimbursement	442	\$21,000
	TOTAL		\$148,000
Description: Replace out-of-date topographic maps (base maps) for the entire City that were last developed in 2000. The new maps will capture the new development and other changes that have occurred over the past decade.			
4. <u>Asset Management</u>	Development Projects Fund	434	\$0
		425	\$41,000
		409	\$41,000
	TOTAL		\$82,000
Description: Replace failing Geographic Information Systems (GIS) and Facilities Management (FM) systems that manage electronic inventories of City infrastructure and provide reliable and well integrated information for asset management and mapping functions.			
<b>Total Miscellaneous Improvements</b>			<b>\$424,000</b>

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<u>PROJECTS</u>	<u>FUNDING</u>	<u>FUND</u>	<u>AMOUNT</u>
<b>Regional Wastewater Program</b>			
1. <u>Facilities Plan Engineering Services</u>	Regional Wastewater Capital Bond Fund	412	\$70,000
	TOTAL		\$70,000
Description: Engineering services for analysis, interpretation, cost estimating and assistance related to the 2004 MWMC Facilities Plan..			
3. <u>Influent PS/Willakenzie PS/Headworks</u>	Regional Wastewater Capital Bond Fund	412	\$306,256
	TOTAL		\$306,256
Description: This project provides influent pumping improvements and headworks expansion required to accommodate the 2025 peak wet weather flow of 277 mgd.			
7. <u>Primary Sludge Thickening</u>	Regional Wastewater Capital Fund	433	\$30,320
	TOTAL		\$30,320
Description: Thin Primary sludge pumping and piping systems to gravity thickeners, two, 50 foot diameter gravity thickeners (covered for odor control), supernatant overflow pumping and piping, thickened sludge piping/pumping to digesters. Includes funds for landscaping in vicinity of thickeners.			
9. <u>Biosolids Force Main Rehab</u>	Regional Wastewater Capital Bond Fund	412	\$1,373,000
	TOTAL		\$1,373,000
Description: Investigate, repair, and/or replace sections of the biosolids force main (piping system)where struvite deposits reduce the pipe diameter and cannot be removed by an acid washing method.			
10. <u>Sodium Hypochlorite Conversion</u>	Regional Wastewater Capital Bond Fund	412	\$328,500
	Regional Wastewater Capital Fund	433	\$2,632,166
	TOTAL		\$2,960,666
Convert existing chlorine gas system to sodium hypochlorite for base flow. Retain the existing chlorine contact basins. Install system with capability for high rate disinfection of primary effluent diversion assuming high dosages of chlorine into a new chlorine contact basin.			
11. <u>Tertiary Filtration I</u>	Regional Wastewater Capital Bond Fund	412	\$500,000
	TOTAL		\$500,000
Description: Filtration: includes infrastructure/support facilities for 30 mgd of filters; install filter cells sufficient for only 10 mgd.			
12. <u>Capacity Management Operation and Maintenance (CMOM)</u>	Regional Wastewater Capital Fund	433	\$184,740
	TOTAL		\$184,740
Description: This project (formerly identified as the WWFMP Update project) supports and guides ongoing collection system capacity management, operations and maintenance (CMOM) programs to address Inflow and Infiltration (I/I) and sanitary sewer overflows (SSO's).			
14. <u>Line Biosolids Lagoons Phase IV</u>	Regional Wastewater Capital Bond Fund	412	\$2,132,000
	TOTAL		\$2,132,000
Description: Reline existing lagoons, Phase 4 at the Biosolids Management Facility (BMF).			

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15. <u>Thermal Load Mitigation: Pre-Implementation</u>	Regional Wastewater Capital Fund	433	\$140,000
	Regional Wastewater Capital Bond Fund	412	\$560,000
	TOTAL		\$700,000
Description: This project includes the phased recycled water planning effort and feasibility studies, study and planning of associated thermal load mitigation measures such as riparian shading and water quality trading credit activities, and permit negotiation and legal strategy related to the temperature TMDL and NPDES permit renewal.			
16. <u>Thermal Load Mitigation: Implementation 1</u>	Regional Wastewater Capital Bond Fund	412	\$700,000
	TOTAL		\$700,000
Description: This project implements thermal load mitigation projects strategized for regulatory compliance and additional environmental and community benefits. The projects will include recycled water use expansion at MWMC and/or community partner facilities, riparian shade projects (initially being implemented on Cedar Creek and Springfield Mill Race), and potentially water quality trading credit strategies through shade credit investments and collaborative partnerships for permit compliance.			
17. <u>Tertiary Filtration - Phase 2</u>	Regional Wastewater Capital Bond Fund	412	\$3,000,000
	TOTAL		\$3,000,000
Description: The phased work program will install infrastructure/support facilities for 30 mgd of filters for tertiary filtration of secondary treated effluent. Phase 2 is planned to install filter system technology sufficient for another 10 mgd of treatment that will increase the total filtration capacity to 20 mgd. The Phase 3 project will install the remaining filtration technology to meet the capacity needs identified in the 2004 MWMC Facilities Plan.			
18. <u>WPCF Lagoon Removal/Decommissioning</u>	Regional Wastewater Capital Bond Fund	412	\$1,500,000
	TOTAL		\$1,500,000
Description: This project decommissions the existing biosolids lagoon at the Water Pollution Control Facility (WPCF) and adds solids handling facilities to manage biosolids during digester cleaning events.			
<b>Total Regional Wastewater Program</b>			<b>\$13,456,982</b>
<b>TOTAL CAPITAL BUDGET</b>			<b>\$28,658,694</b>
<b>TOTAL DEDICATED RESERVES</b>			<b>\$7,837,072</b>
<b>TOTAL</b>			<b>\$36,495,766</b>