



**JOINT WORK SESSION MEETING
AGENDA
CREVE COEUR
CITY COUNCIL AND STORM WATER COMMITTEE
300 NORTH NEW BALLAS RD
JANUARY 9, 2017
6:00 PM**

CALL TO ORDER

ROLL CALL

DISCUSSION ITEMS

1. MSD Presentation

Summary: MSD staff will present its outlook for current and future stormwater funding in St. Louis County, particularly how this funding will impact Creve Coeur.

2. Stormwater Project Update

Summary: Staff and the Stormwater Committee will update the City Council regarding the status of active stormwater projects and the proposed residential stormwater regulation.

Pursuant to Section 610.022 RSMo., the City Council could, at any time during the meeting, vote to close the public meeting and move to closed session to discuss matters relating to litigation, legal actions and/or communications from the City Attorney as provided under Section 610.021(1) RSMo. and/or personnel matters under Section 610.021(13) RSMo. And/or employee matters under Section 610.021(3) RSMo. and/or real estate matters under Section 610.021(2) or other matters as permitted by Chapter 610.

Posted: _____ posted 01/5/2017
Deborah Ryan, MPCC
City Clerk



City Council
300 North New Ballas Rd
Creve-Coeur, MO 63141

Debbie Ryan
City Clerk
(314) 872-2517
www.creve-coeur.org/

Meeting: 01/09/17 06:00 PM

DOC ID: 2249

DISCUSSION ITEM (ID # 2249)

MSD Presentation

Brian Hoelscher, executive director of the Metropolitan St. Louis Sewer District (MSD), along with Lance LeComb and Crystal Howard, both also with MSD, will discuss several topics related to MSD's operations and stormwater management:

- **Project Clear.** MSD will provide a summary of the status of this effort to meet the requirements of its consent decree with the U. S. Environmental Protection Agency. MSD's project summaries for several projects involved in this effort are included for reference.
- **"Proposition S."** Voters approved this MSD tax measure in April 2016. The measure replaced a three-tiered stormwater tax system for St. Louis City and St. Louis County with a single level of taxation for the region. This will provide a significant increase to the amount of funding available to maintain the stormwater system in the area generally outside of the Interstate 270 loop. MSD's fact sheet regarding this measure is included for reference.
- **Future funding request.** MSD is currently exploring whether voters in the St. Louis area are interested in paying additional taxes for stormwater improvements to address flooding and erosion. This is a multi-year effort that MSD envisions may result in another ballot measure in April 2019.

At the end of their presentation, MSD staff will welcome any questions that the City Council or the Stormwater Committee may have.



MO River Service Area Inflow and Infiltration Reduction - Creve Coeur Creek East

MSD Project Numbers: 11774

PROJECT DESCRIPTION

Rehabilitation the public sewers using Cured-In-Place Pipe (CIPP) technology, also includes manhole lining, and repair of service connections.

PURPOSE

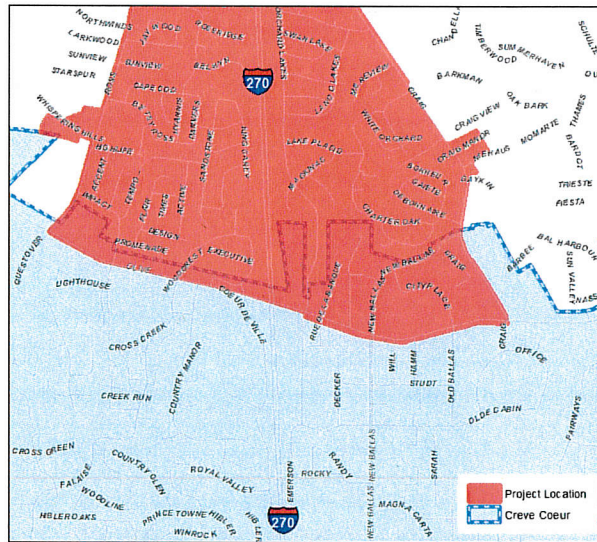
- Shore up leaks and cracks in sewer pipes and manholes
- Reduce risk of sewer overflows and basement backups during rain events

WHAT THE PUBLIC MAY NOTICE

- Point repair digs, only at the spot of entry. Equipment near manholes, which are located in streets, backyards or alleys.
- Work vehicles parked near the job site.
- Curing the pipe may involve steam, which can look like smoke.
- Resin used to coat the pipes has a slight odor which can be carried from the pipe into homes. It is nontoxic and will dissipate as the lining solidifies.

PROJECT START

Currently under construction
Estimated completion: FY18



FOR QUESTIONS PLEASE CONTACT:

MSD Project Manager , Mark Dietiker, 314-768-6380, mdietiker@stlmsd.com



Ladue Subtrunk Sanitary Relief (SKME-654)

MSD Project Numbers: 11714

PROJECT DESCRIPTION

Construct 80 ft of 12" storm sewer. Remove private infiltration and inflow (I/I) from wastewater sewers to alleviate building backups and overcharged wastewater sewers during wet weather events.

PURPOSE

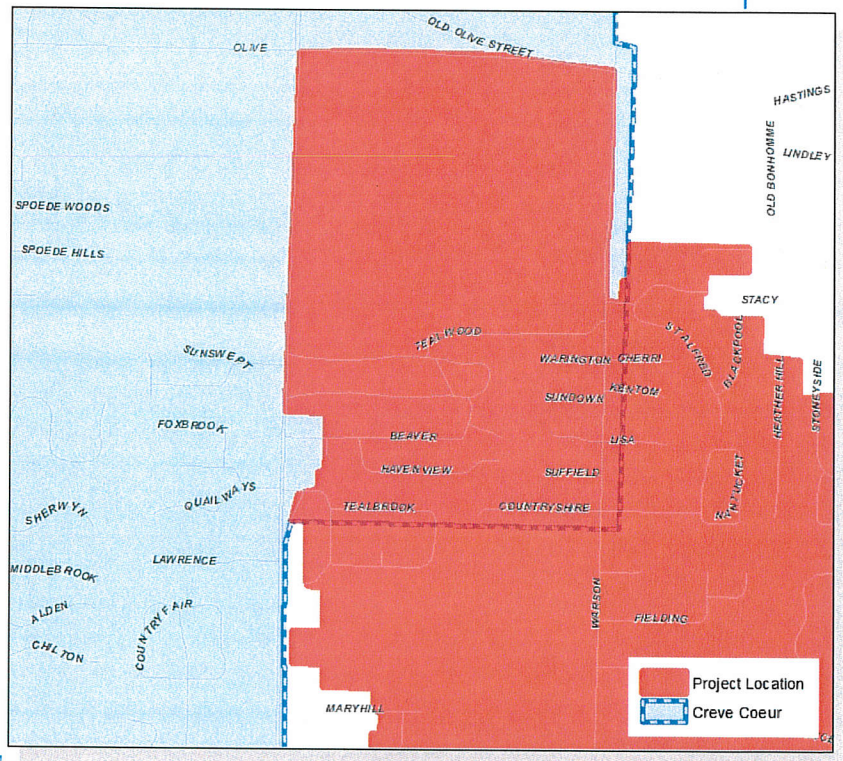
- Downspout disconnections, repairing cleanout defects, day-lighting or capping drain defects.
- Reduce risk of sewer overflows and basement backups during rain events.
- Save ratepayers money by avoiding treatment costs and unnecessary system expansions.

WHAT THE PUBLIC MAY NOTICE

During construction, resident contacts...downspout disconnection, work in yards, driveway drains, etc., building new storm sewers.

PROJECT START

Construction: Bid in Dec 2016.
Scheduled completion date: Sept 2017



FOR QUESTIONS PLEASE CONTACT:

MSD Project Manager, Chuck McFarland, 314-768-6381, cmcfarland@stlmsd.com



Bellington Lane #149 Storm Sewer

MSD Project Number: 11496

PROJECT DESCRIPTION

Construct approximately 220 sq. yds. of bank stabilization and rock toe protection.

PURPOSE

- To reduce/eliminate yard and structural flooding.

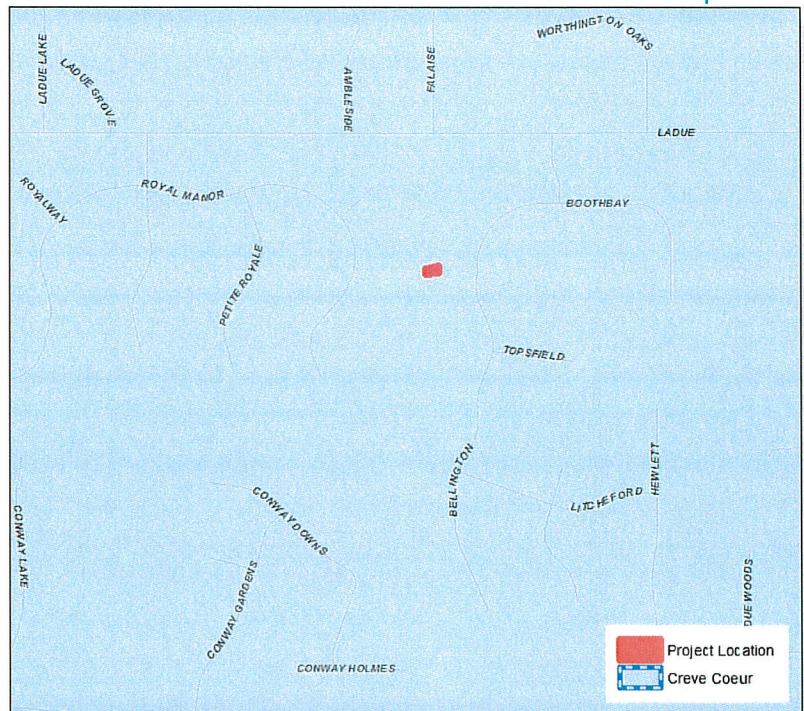
WHAT THE PUBLIC MAY NOTICE

- Construction vehicles, work crews and materials near the worksite.
- Construction: street disruption, excavation at the point of the storm sewer, some utility disruption is possible, i.e.—temporary shut off of water.
- Impacts two properties.

Project Status:

Est. Design: FY18

Est. Construction Starts: FY 19



FOR QUESTIONS PLEASE CONTACT:

MSD Project Manager, Mark Koester , 314-768-6327, mkoester@stlmsd.com



Boothbay Ct. #12301-12302 Storm Sewer

MSD Project Number: 11492

PROJECT DESCRIPTION

Construct approximately 155 feet 12" to 21" storm sewer.

PURPOSE

- To reduce/eliminate yard and structural flooding.

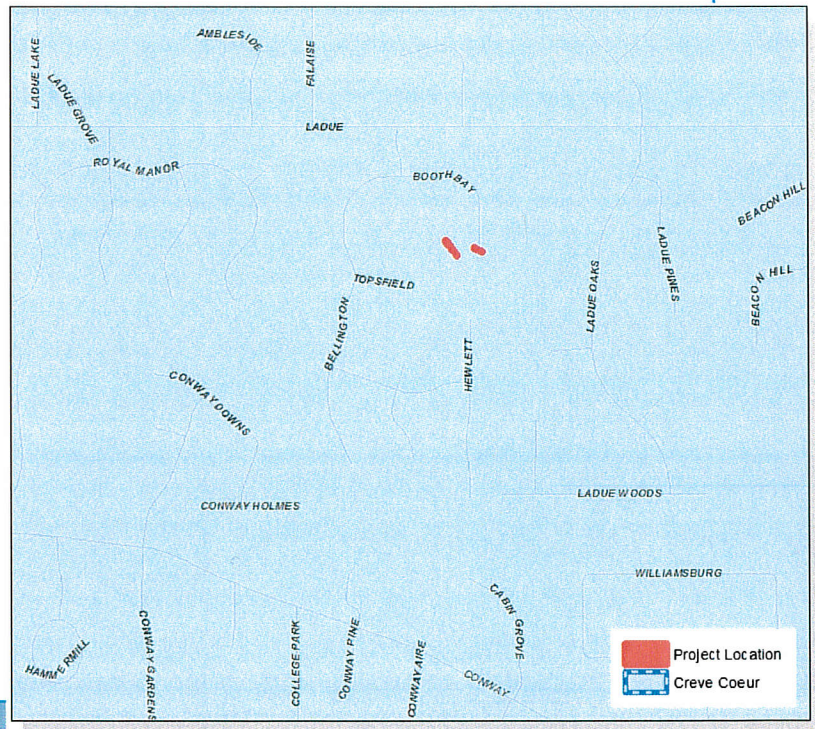
WHAT THE PUBLIC MAY NOTICE

- Construction vehicles, work crews and materials near the worksite.
- Construction: street disruption, excavation at the point of the storm sewer, some utility disruption is possible, i.e.—temporary shut off of water.

Project Status:

Design: FY18

Est. Construction Starts: FY20



FOR QUESTIONS PLEASE CONTACT:

MSD Project Manager, Mark Koester, 314-768-6327, makoester@stlmsd.com



MSD by the numbers...

- 1,300,000 customers
- 6,500+ miles of wastewater pipes
- 3,000+ miles of stormwater pipes
- 525 square mile service area
- 79 original sewer districts combined
- 7 wastewater treatment plants
- 4th largest sewer system in US

April 2016 Ballot Initiatives

Proposition Y & Proposition S

The Metropolitan St. Louis Sewer District (MSD) is both a wastewater and a stormwater utility. Funds and operations for both functions must be accounted for separately.

MSD is presenting two initiatives before area voters on the April 5th ballot: Proposition Y - Wastewater Bond Authorization, and Proposition S - Stormwater Service Equalization. Both initiatives stem from a recommendation made to MSD's Board of Trustees by the District's Rate Commission.

For more information about MSD's Rate Commission, please visit www.stlmsd.com/RateCommission.

PROPOSITION Y: WASTEWATER BOND AUTHORIZATION

Wastewater Funding: The wastewater bond authorization seeks voter authorization for \$900 million in additional bonds to fund a four-year, \$1.5 billion capital improvement program to meet regulatory and system improvement needs. These projects are part of a \$4.7 billion, 23-year agreement with the Environmental Protection Agency and the Missouri Coalition for the Environment. The question before voters is not "if" the work should take place - as part of the agreement, it must - but, rather, how this work should be paid for over the next four years.

Within this capital program, MSD would continue to:

- Address sewer overflows that discharge wastewater into area creeks and streams during moderate to heavy rainstorms;
- Alleviate basement backups throughout the City and County;
- Repair and rehabilitate an aging sewer system;
- Increase wastewater treatment plant capacity;
- Proactively clean and maintain the collection and treatment system.

Cost: Based on average monthly water usage of a single-family residence, a monthly wastewater sewer bill would resemble the following rates, shown here with and without bond approval:

WITH BOND FINANCING¹

	\$\$\$	% Change
FY16 ³	\$40.72	13.1%
FY17	\$44.59	9.5%
FY18	\$49.31	10.6%
FY19	\$54.63	10.8%
FY20	\$60.44	10.6%

NO BOND FINANCING²

	\$\$\$	% Change
FY16 ³	\$40.72	13.1%
FY17	\$44.59	9.5%
FY18	\$73.16	64.1%
FY19	\$82.71	13.1%
FY20	\$95.13	15.0%

¹ With Bonding: Projects are funded with cash and debt. ² No Bonding: Projects are funded with cash. All numbers above are based on average usage of 700 cubic feet per month (7 Ccfs). This is the equivalent of 5,236 gallons.

³ MSDs fiscal year (FY) is July 1 through June 30. MSD is currently in fiscal year 2016.

Wastewater Service:

MSD's wastewater management involves the collection and treatment of "used" water from sinks, toilets, and floor drains at one of seven treatment plants, where it is treated to high standards before returning to our region's waterways.

Wastewater Funding:

Voters will be asked to choose one of two wastewater financing options: if voters approve, MSD will issue \$900 million in additional bonds to fund this four-year capital program, to make needed rate increases more manageable. If voters do not approve additional bonds, the Rate Commission recommendation calls for cash financing of the capital program.

BENEFITS:

24	39	226	360	598	1,600	6,000	3,814
Miles of Storage & Conveyance Tunnels Designed	Sanitary Sewer Overflows Removed	Wastewater Construction Projects	Miles of Sewer Rehabilitation	Wastewater Planning, Design, & Construction Projects	Miles of Sewer Inspected With CCTV	Manhole Rehabilitations	Miles of Sewer Cleaned

PROPOSITION S: STORMWATER SERVICE EQUALIZATION

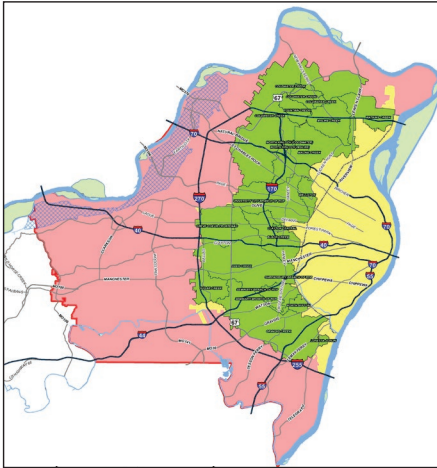
Stormwater Service: MSD stormwater services are currently paid for through a variety of stormwater property taxes and a \$0.24 or \$0.18 charge on each month's MSD bill. The amount of taxes paid by an individual customer - and the stormwater service received - is a function of where a customer lives. The result is that stormwater service is uneven across MSD's service area, with a significant number of customers receiving only regulatory compliance work - that is to say, these customers go without basic stormwater sewer maintenance and repair.

If Proposition S is approved, MSD will rollback and eliminate several of the taxes, eliminate the stormwater fee, and, in place of these funding mechanisms, institute or leave in place two property taxing districts that cover the entire service area. All customers would then receive the exact same level of stormwater service. Instead of stormwater service being dictated by available funds in a specific area - as it is now - service will be prioritized by where the need is greatest. This change would:

- Ensure compliance with all local, state, and federal stormwater regulations;
- Address impacts of stormwater runoff on water quality of receiving streams;
- Fund complete operations and maintenance of the public storm sewer system.

If Proposition S is approved, the current tax structure would leave behind "fund balances" that would be spent on stormwater projects throughout the City and County. Thus, if Proposition S is approved, MSD would spend \$67 million on stormwater projects over the next four years.

CURRENT STORMWATER REVENUE



The map at left represents the different current levels of stormwater service available. Red represents the least service; yellow represents the next highest level of service; green represents the most service.

The below figures show the average annual customer cost for stormwater service, by area. The figures include the stormwater fee paid through each month's MSD bill (\$2.88 annually), plus stormwater taxes. All taxes are calculated per \$100 of assessed valuation. The below calculations use the average appraised value for each color-coded area. Each area's stormwater services are listed beneath the figures.

Red Area: Stormwater Fee + \$0.0197 administrative tax = \$13.40/year

- Includes regulatory compliance

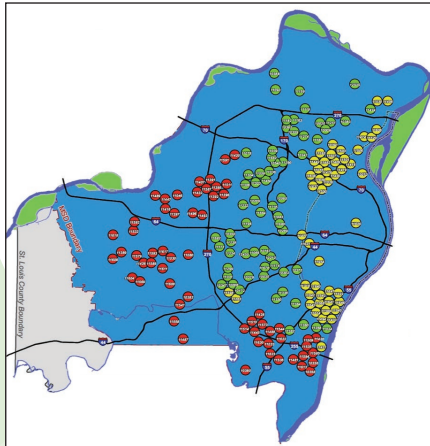
Yellow Area: Stormwater Fee + Red tax + \$0.0682 stormwater tax = \$15.38/year

- Includes regulatory compliance
- Adds partial operations and maintenance efforts

Green Area: Stormwater Fee + Red tax + Yellow tax + up to \$0.10 tax = \$64.55/year

- Includes regulatory compliance (varies based on taxing subdistricts within area)
- Adds complete operations and maintenance
- Adds minimal capital projects

STORMWATER SERVICE EQUALIZATION



If Proposition S is approved, an existing \$0.0197 tax would pay for the costs of stormwater regulatory compliance. This tax currently covers MSD's entire service area and would remain in place. A \$0.10 stormwater maintenance tax would replace the other taxes and the monthly stormwater fee. This tax would cover MSD's entire service area. **The result: some customers would annually pay more to MSD; some would pay about the same; and others would pay less. However, everyone would be under the same tax structure and everyone would receive the same stormwater service.** The average change in cost paid to MSD annually for stormwater services is listed below, by area.

Blue Area: \$0.0197 regulatory tax + \$0.10 stormwater tax

Anticipated amount paid to MSD annually (MSD portion on your annual property tax bill) Average annual change

Red Area: Total tax rate \$0.1197 = \$60.60/year Red Area: + \$47.20/year

Yellow Area: Total tax rate \$0.1197 = \$16.10/year Yellow Area: + \$0.72/year

Green Area: Total tax rate \$0.1197 = \$41.92/year Green Area: - \$22.63/year

The map at left shows the \$67 million in stormwater projects that would be built over the next four years. As the leftover "fund balances" are specific to each area - and can only be spent in the area in which the individual taxes were levied - each "dot" is appropriately color-coded.

Stormwater Service Equalization:

Voters will be asked to choose whether to equalize the application of stormwater taxes and stormwater services across the City and County.

If approved, MSD would implement a finite \$67 million stormwater capital program.



City Council
300 North New Ballas Rd
Creve-Coeur, MO 63141

Debbie Ryan
City Clerk
(314) 872-2517
www.creve-coeur.org/

Meeting: 01/09/17 06:00 PM

DOC ID: 2250

DISCUSSION ITEM (ID # 2250)

Stormwater Project Update

Several stormwater projects are currently active. The Stormwater Committee and City staff will provide a brief update of each for the City Council.

1. Alden Lane culvert rehabilitation. This project aims to extend the drainage culvert at Alden Lane in order to address a failing wingwall for this culvert. The plans for this project are complete, and staff is currently developing the bid documents for the project. Staff anticipates that the project will be completed during the spring and summer of 2017.
2. Emerson culvert improvements. A drainage culvert and headwall along Emerson Road no longer adequately supports the road and will be replaced. This was envisioned as a stand-alone project, but will be included in the Emerson Road Improvement Project, for which the City recently received a federal grant. Design for this project is expected to begin in 2017 with construction in either 2018 or 2019.
3. Malcolm Terrace Bridge Improvements. Staff found significant erosion around the abutments for a bridge at the south end of Townsend Drive that serves Malcolm Terrace Park. The City was awarded a Bridge Engineering Assistance Program (BEAP) grant through the Missouri Department of Transportation (MoDOT) that funded a preliminary structural review of the bridge. Staff has recently reviewed the final report, and staff plans to bring a recommendation to begin design for the rehabilitation of this bridge to the City Council meeting on January 23.
4. Golf Course Dam Stabilization. The project to stabilize the failed dam at the Creve Coeur Golf Course is scheduled to begin the week of January 9. The project will involve adding a clay liner to the dam and a partial replacement of the center of the dam where the leaks have been most prevalent. The work is expected to take about one month to complete.
5. Residential Stormwater Regulation. Staff and the Stormwater Committee have considered the goals and provisions of the residential stormwater regulation for some time. The result has become an effort to simplify the City's stormwater regulations (Chapter 425 of the Municipal Code) and to specify that work that requires a permit from the City must also present no negative effect on neighboring properties. Staff expects to complete a draft ordinance in 2017.