



Wet Weather Team  
Stakeholder Group Agenda  
July 22, 2020  
2:30 p.m. – 4:00 p.m.

- 2:30 – 2:40 Welcome & Intro, Roll Call, Ground Rules, Purpose  
*Clay Kelly, Strand Associates*
- 2:40 – 3:00 IOAP Update  
*John Loechle, MSD Engineering Technical Services Director*
- 3:00 – 3:30 State of MSD, COVID-19 Response  
*Tony Parrott, MSD Executive Director*
- 3:30 – 3:40 Introduction of MSD's new Chief Engineer  
*David Johnson, MSD Chief Engineer*
- 3:40 – 4:00 Final Stakeholder Comments, Observer Comments, Wrap-up and Adjourn  
*Clay Kelly*

**Meeting Summary**

**Meeting Summary**  
**Wet Weather Team Stakeholder Group Meeting**  
**July 22, 2020**  
**Video Conference Call**

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The Wet Weather Team (WWT) Stakeholders, chartered by the Louisville and Jefferson County Metropolitan Sewer District (MSD), met on July 22, 2020 via video conference. The objectives of the meeting were to:

- Provide a Consent Decree Integrated Overflow Abatement Plan (IOAP) and general MSD update, and
- Review MSD's response to the COVID-19 pandemic.

### **Welcome**

Clay Kelly of Strand Associates opened the meeting by welcoming everyone and going over the processes that will be used for the WWT's first "virtual meeting." Clay noted that the meeting was not being recorded and reminded the Stakeholders that their comments would remain anonymous in the meeting minutes.

### **IOAP Update**

John Loechle, MSD Engineering Technical Services Director, noted that MSD has been working on IOAP projects for a long time now and many are completed. Out of a total of 216 project, 178 have been completed. John reminded everyone that the projects are located throughout the county and will benefit all of MSD's customers.

The IOAP efforts are creating results. Unauthorized discharges are trending down even in years with more wet weather. This is noteworthy because some of the largest projects of the program are not yet in service. MSD expects that when these cornerstone projects are complete, unauthorized discharges will decrease even more.

John then highlighted the status of several projects, including the Waterway Protection Tunnel, Rowan Pump Station, Downtown Combined Sewer Overflow (CSO) Interceptor, and the Lexington and Payne CSO Interceptor.

A stakeholder asked whether MSD was on time to meet its deadlines with the United States Environmental Protection Agency. John replied that MSD has met every deadline to date. MSD is currently asking for a one-year extension on the Tunnel project. This extension is only for the Tunnel. All other projects are on schedule.

Another stakeholder inquired if the Lexington and Payne CSO Interceptor project was coordinated with the ongoing Three Forks Beargrass Creek Ecosystem Restoration Feasibility Study (Three Forks Study) because the interceptor pipe was going into the bed of Beargrass Creek. John explained that the Interceptor project was planned, designed, and construction started before the Three Forks Study began, so MSD was not able to align those efforts.

One stakeholder asked about the safety systems for the Rowan Pump Station to prevent people and equipment from falling into the wet well. John said there are safety systems in place to protect people from falling in, and to prevent equipment, tools, and other objects as well.

### **MSD COVID-19 Response**

Tony Parrott, MSD Executive Director, provided an overview of MSD's COVID-19 response by reiterating that MSD provides essential services and that all its employees are essential workers. MSD has been promoting the criticality of its mission and the role MSD employees play in protecting the environment during this time.

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MSD has been focusing on three areas to emerge from COVID-19 as a stronger, more resilient utility:

1. Maintaining Service
2. Employee Safety
3. Financial Resiliency

Currently, 90 percent of MSD's office staff is working from home. This is expected to continue for the foreseeable future, including through the end of the calendar year. MSD's IT department moved forward almost two years' worth of planned improvements in order to facilitate this as many operations as possible are being moved to virtual environments.

MSD has purchased more than 15,000 disposal masks and are buying more and more reusable cloth masks. Unions representing MSD personnel have been collaborating with MSD's leadership on work changes and procedures to better protect everyone. All employees, whether they are working from home or in the field, must do health checks. These efforts have been successful to date. One employee has had a positive test for COVID-19, but because MSD already had a contact tracing system in place, the impact has been quickly contained.

Tony explained that the financial impacts of the pandemic have been substantial. The amount of "bad debt" that MSD is carrying due to customers being unable to pay their bills peaked at \$4 million in June. It is now trending downward. MSD is working with the Louisville Water Company to help people pay their bills, set up repayment plans, and direct them to other forms of assistance. The decrease in revenue though is difficult for MSD to manage. Revenue drives budgets, which impacts projects. To date, MSD has eliminated 65 empty positions as a result of the revenue downturn.

### **MSD Update**

Tony continued his discussion by updating the WWT on regionalization efforts. Since the last WWT meeting, MSD has finalized the acquisition of the Oldham County Environmental Authority (OCEA). Additionally, an agreement with Shelby County to serve the women's prison is nearly complete, and MSD is advancing discussions with the Bullitt County Sanitation District. Changes in state law have made it easier for MSD to engage other utilities to offer support and assistance. MSD is being engaged by neighboring communities' local leaders regarding utilities and the associated challenges. Working together creates cost savings through economies of scale and supports economic growth.

A stakeholder asked how many people MSD was serving in Oldham County now. Tony responded that there were approximately 6,500 OCEA customers and approximately 1,300 customers in Crestwood. The stakeholder followed up by asking whether this regionalization revitalizes the concept of a "super regional" treatment plant. Tony answered that conceptually it could be an option, especially if MSD were to serve the Bullitt County Sanitation District. If such a plan moved forward, it would be on a smaller scale than what was explored a few years ago through the Salt River Regionalization Study.

Another stakeholder wondered whether the Kentucky State Reformatory was served by OCEA. Brian Bingham, MSD Chief of Operations, explained that OCEA operated the treatment plant that was located at the prison. The treatment plant was owned by the prison and leased to OCEA for 75 years. MSD now oversees management of the operating contract.

Tony updated the stakeholders on the Three Forks Study, which is underway in partnership with the United States Army Corps of Engineers (USACE). Louisville was one of only three communities selected for funding by the USACE. The goal is to improve water quality, habitat, and connectivity to and from the creeks. There are several studies related to the Beargrass Creek watershed and much of the activity to date on the current study has been focused on researching those historical documents. A stakeholder group has been formed and it is developing community goals. Completing this study will allow MSD to be eligible for other federal funding.

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### **Chief Engineer Introduction**

Tony introduced MSD's new Chief Engineer, David Johnson. David was appointed to the position by Mayor Fischer in March. David thanked the WWT for its many years of service to the community and MSD. He then provided an overview of MSD's upcoming capital improvement plan (CIP). The CIP is smaller this year due to the impacts of COVID-19, and the desire to implement a smaller than planned rate increase in light of the economic downturn. Ultimately, the MSD Board approved a 5 percent rate increase instead of its planned 6.9 percent.

A stakeholder asked who would be paying for any projects in Oldham County. David answered that MSD is keeping separate books for Oldham County and that only Oldham County customers will pay for projects there.

One stakeholder was curious whether OCEA had a balanced budget and whether any of the planned projects in Oldham County would impact MSD's ability to complete the IOAP. Tony said that OCEA had a balanced budget but the OCEA board anticipated large costs coming in the near future to address its needs. OCEA's board was looking for ways to more efficiently meet those needs and turned to regionalization through MSD. Tony emphasized that neither Oldham County nor Jefferson County customers are subsidizing each other, so this will have no impact on the IOAP.

Tony wrapped up his discussion by sharing that MSD is involved in two research initiatives related to COVID-19. The first is part of a national study looking at COVID-19 in wastewater. The second is with the University of Louisville (University). It involves testing thousands of people across the community for COVID-19 while MSD is testing its wastewater collection system. The University hopes to correlate the hypothesis that the COVID-19 virus is shed from the body at varying amounts, which correspond to its incubation status. MSD is collecting samples to support this testing. If the hypothesis is substantiated through these tests, the results would allow health officials to predict where outbreaks may be about to occur.

### **Observer Comments, Wrap-Up, and Adjournment**

Clay asked for any final comments or questions from the stakeholders. Many congratulated David on becoming Chief Engineer and thanked Angela Akridge for her serve in the role.

A stakeholder asked whether MSD suffered any damage as a result of the protests downtown. Tony answered that there was some damage after some of the very first protests, but since boarding up the Main Office, there has been none. MSD has had no problems since then at the Main Office or any other assets.

A final question was asked by a stakeholder on whether OCEA was a private company or a government entity, and whether MSD acquired its assets. Tony shared that OCEA was a government entity that hired a private company to operate and manage the utility. As a result, most their non-infrastructure assets were owned by the private company and not OCEA, so MSD did not acquire much rolling stock such as trucks, equipment, etc.

Clay closed the meeting by thanking everyone for their participation and wished them well.

### **Meeting Materials**

- Agenda for the July 22, 2020 WWT Stakeholder Group Meeting
- Copy of the presentation slides:
  - IOAP Update
  - MSD COVID-19 Response

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▪ **Meeting Participants**

*Wet Weather Team Stakeholders (Present)*

Steve Barger, Labor (retired)  
Susan Barto, Mayor of Lyndon  
Stuart Benson, Louisville Metro Council, District 20  
Deborah Bilitski, Waterfront Development Corporation  
Billy Doelker, Key Homes  
Arnita Gadson, West Jefferson County Community Task Force  
Corinne Greenberg, Carbide Industries  
Mark French, University of Louisville Speed School of Engineering  
David James, Louisville Metro Council, District 6  
Rick Johnstone, Deputy Mayor, Louisville Metro Mayor's Office (retired)  
Kurt Mason, USDA Natural Resources Conservation Service  
Jeff O'Brien, Louisville Metro Government, Director of Louisville Forward  
Rocky Pusateri, Elite Built Homes  
Lisa Santos, Irish Hill Neighborhood Association  
David Wicks, Get Outdoors Kentucky; Jefferson County Public Schools (retired)  
Ward Wilson, Kentucky Waterways Alliance  
Nicole Yates, Representative John Yarmuth's Office

*Wet Weather Team Stakeholders (Not Present)*

Andrew Condia, Senator Mitch McConnell's Office  
Jody Meiman, Louisville Metro Government, Director of EMA/MetroSafe  
Tina Ward-Pugh, Louisville Metro Government, Resilience and Community Services, Office for Women  
Mary Ellen Wiederwohl, Louisville Metro Government, Chief of Louisville Forward

*Wet Weather Team MSD Personnel (Present)*

Tony Parrott, MSD Executive Director  
Angela Akridge, MSD Chief Strategy Officer  
Brian Bingham, MSD Chief of Operations  
David Johnson, MSD Chief Engineer  
John Loechle, MSD Engineering Technical Services Director

*Technical Support*

Clay Kelly, Strand Associates  
Paul Maron, Strand Associates

**Meeting Observers**

Sheryl Lauder, MSD  
Stephanie Laughlin, MSD  
Daniel Sullivan, MSD  
Wesley Sydnor, MSD





# WET WEATHER STAKEHOLDER'S GROUP COVID19 RESPONSE:

July 22, 2020



# Mitigating the Impacts of the COVID19 Pandemic

Wastewater, Stormwater, and Flood Protection Services are Essential. We CANNOT Shut Down, so How Do We Come Through COVID-19 as a Stronger, MORE Resilient Utility?

**MAINTAIN  
SERVICE**

Maintain Critical Business Function Continuity

**EMPLOYEE  
SAFETY**

Provide Tools, Equipment, and Communications to Staff

**FINANCIAL  
RESILIENCY**

Mitigate Revenue Challenges

# Maintain Critical Business Continuity

## Back Office Functions

1. Transition to Telework everywhere Possible
2. Bolster Technology Infrastructure Framework
3. Rotate and Distance Staff working on premises
4. Utilize Technology to Distance “Front Counter” Staff from Public



# Maintain Critical Business Continuity

## Back Office Functions (cont.)

5. Bolster Facility Maintenance and Workspace Disinfection
6. Use Skype/Zoom/Teams to Conduct Meetings, Programmatic Initiative Development Workgroups and Training
7. Use Skype/Zoom/Teams to Conduct Governing Board and Committee Meetings



# Maintain Critical Business Continuity

## Front Line Functions

1. Provide Staff with PPE – Masks Mandatory
2. Bolster Facility Maintenance and Workspace Disinfection
3. Alter Methods and Stagger Timing of “Clocking In”
4. Rotate/Reduce Staff Work Hours/Days



# Maintain Critical Business Continuity

## Front Line Functions (cont.)

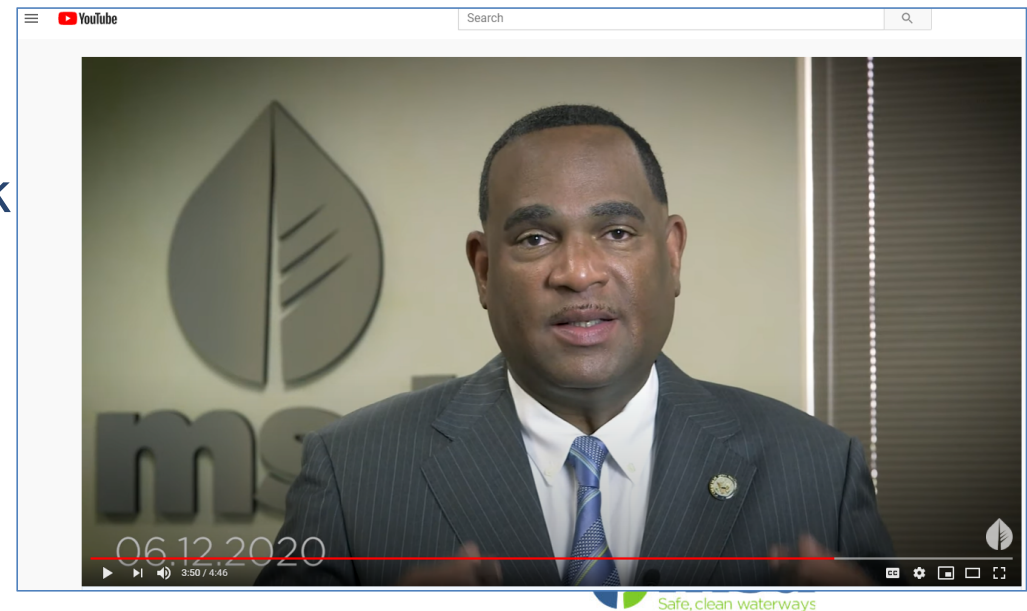
5. Perform Temperature Scans of Employees
6. Limit Number of Employees per Vehicle
7. Limit Employee Interactions with Supervisors and Managers
8. Contact Tracing
9. Monitor Supply Chain Bottlenecks



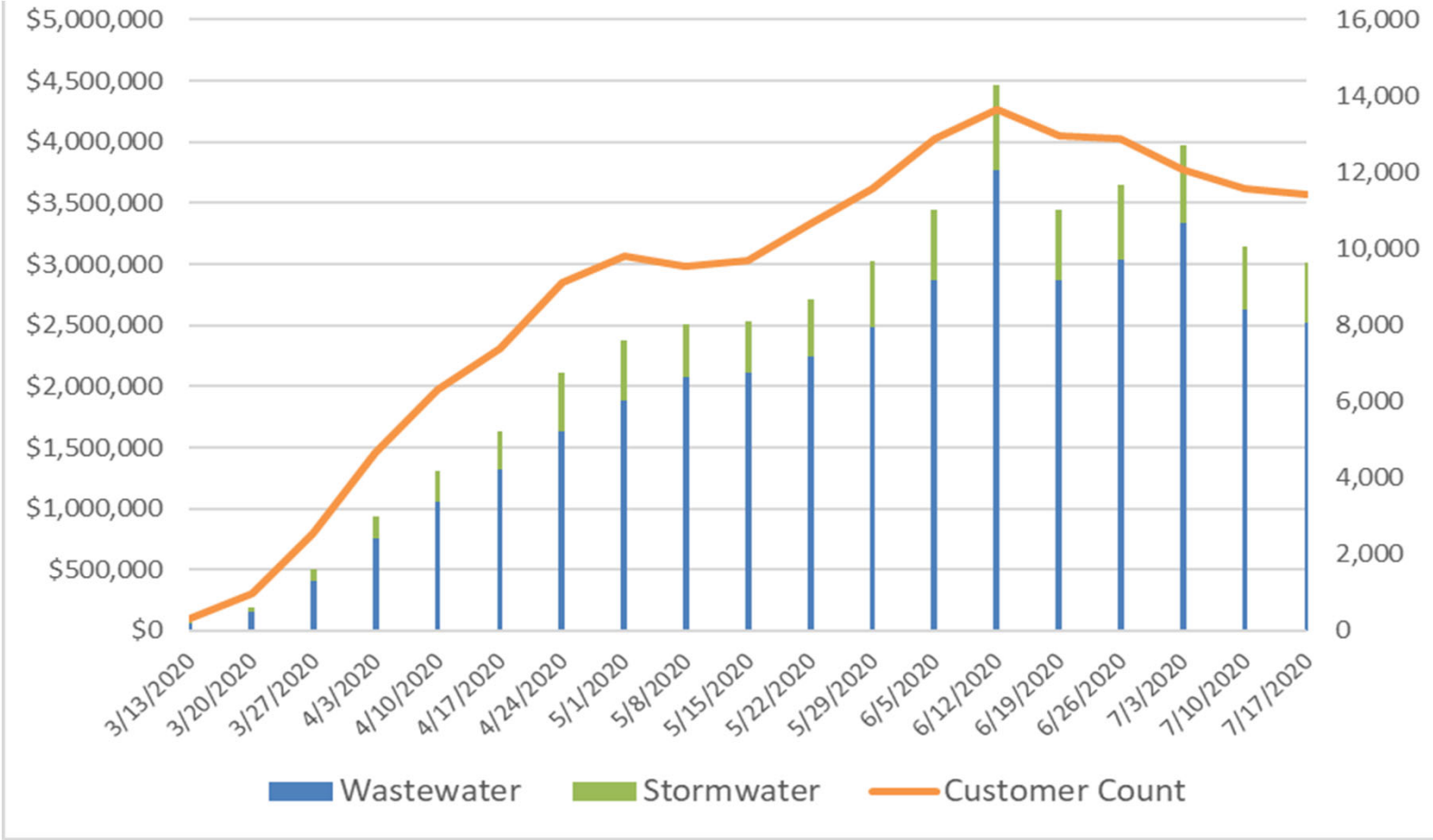
# Maintain Critical Business Continuity

## Enhancing Communications With Staff Across The District

1. Utilize Video Messages from the Executive Director to Staff
2. Utilize Skype/Zoom/Teams for Supervisors to Connect with Teleworking Staff and Keep Work Moving
3. Internal Communication Tools to Keep Staff Apprised of Executive Orders and Resultant Policy Modifications

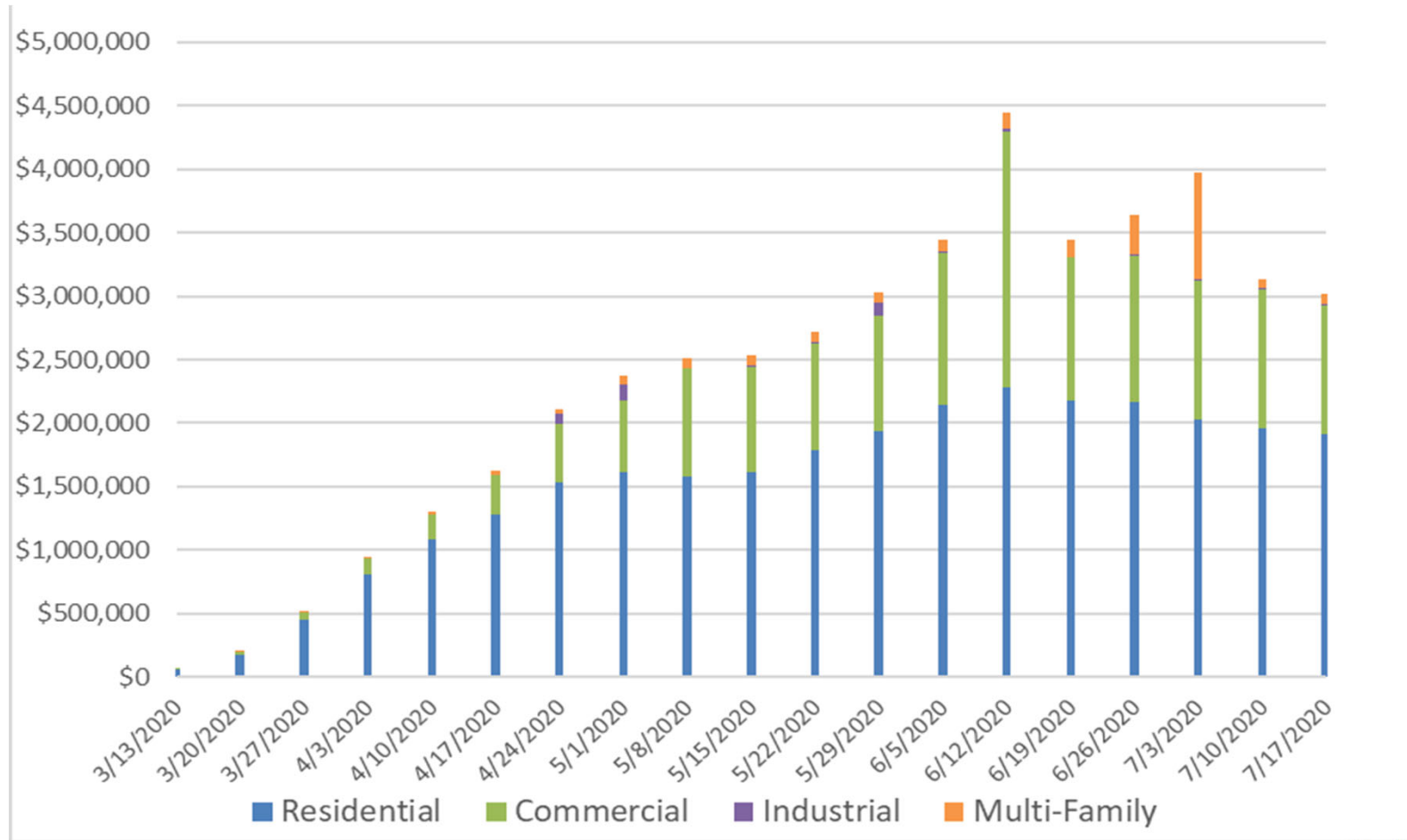


# Delinquent Account Growth due to COVID-19





# Delinquent Accounts by Customer Type



# Mitigate Financial Impacts

- Development of an Emergency Wastewater Rate Assistance Program as well as Partnering with LWC on the “Drops of Kindness” Program for Customer Assistance
- Prepare “Shovel Ready” Work Packages for Emergency Relief SRF
- Seeking Economic Development Administration Funding for COVID-19 Related Projects
- Explore Opportunities to Offer Additional Services that Diversify Revenue Streams or Supplement Underfunded Services



**10%**

10% discount applies to MSD wastewater service charges, wastewater volume charges and consent decree surcharges



# Moving Forward in the Post-COVID World

- Potential Use of Flexible Work Schedules and Telework Going Forward
- Potential Reallocation of Positions and/or Reduction of FTEs
- Assess Emergency Response Plans and Business Continuity Plans for Enhancements and Modifications based on Real Time Experience
- Use of Technology to Innovate Methods for Governance Meetings
- Enhance Technology Infrastructure to Improve Resilience
- Implement Policies, Procedures and Technologies to Allow for Electronic Signatures

Questions?



# IOAP Update

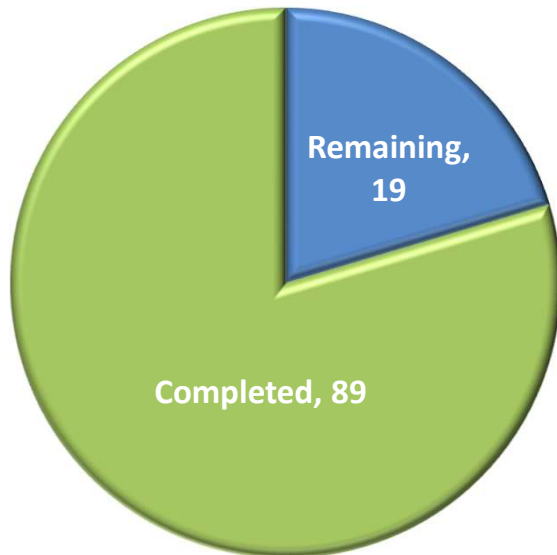
July 22, 2020



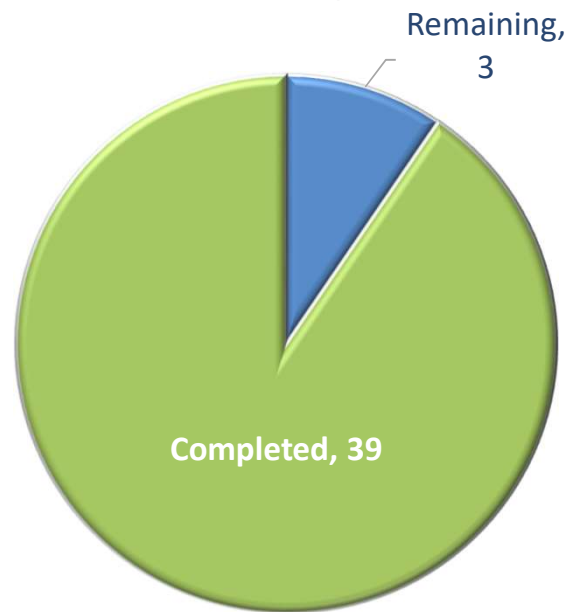
# Regulatory Compliance



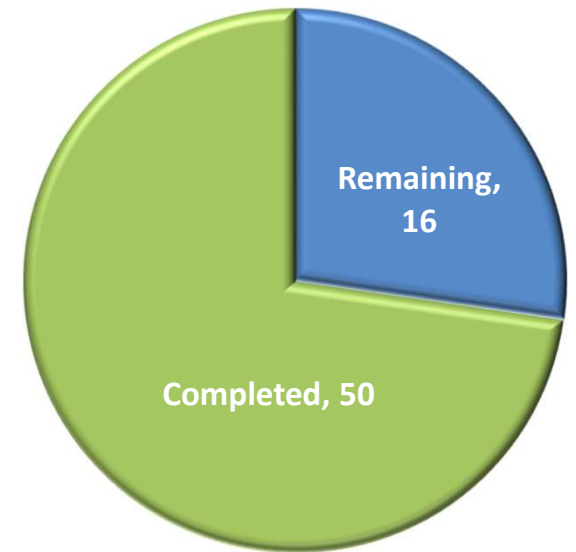
## IOAP Projects



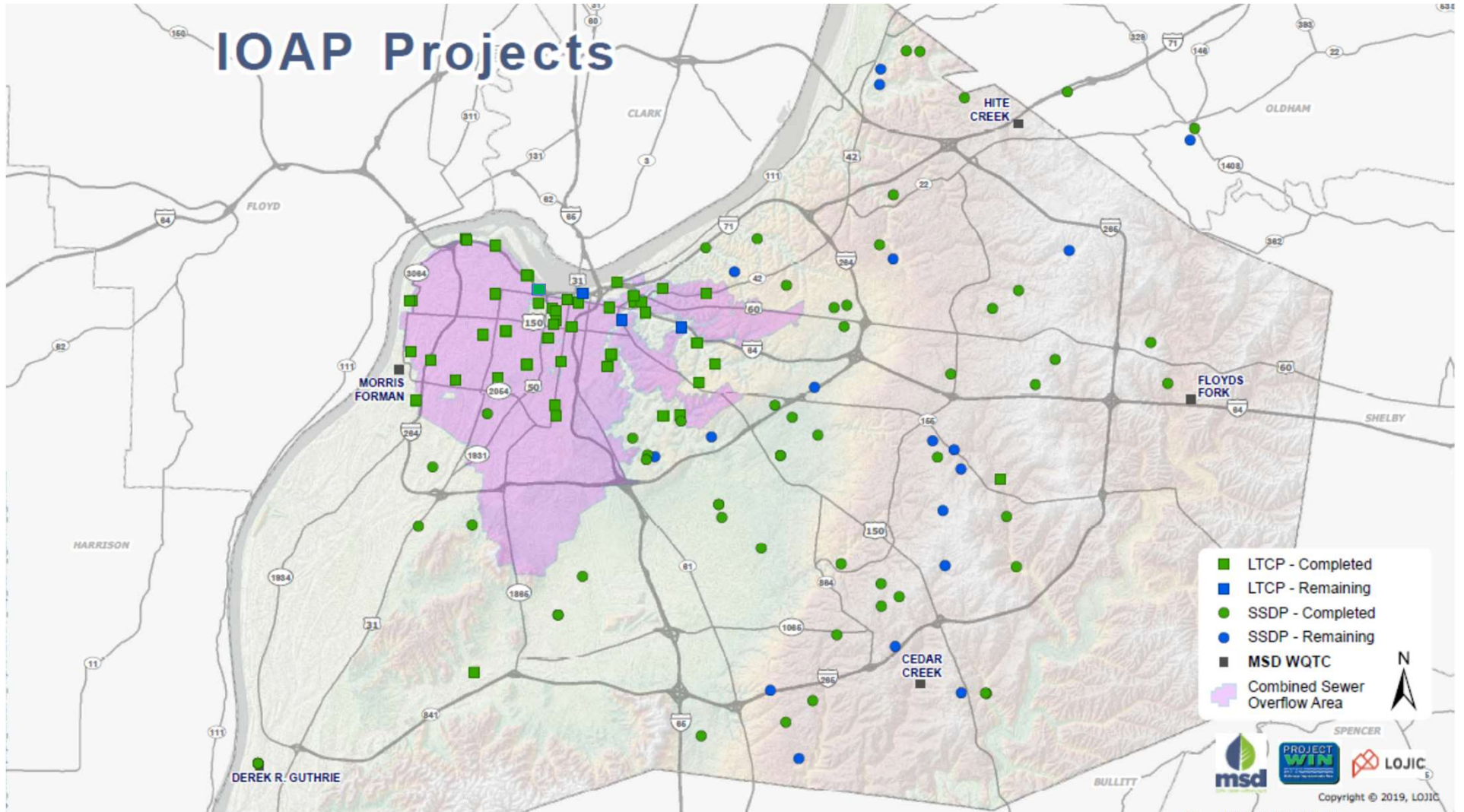
## CSO Projects



## SSO Projects

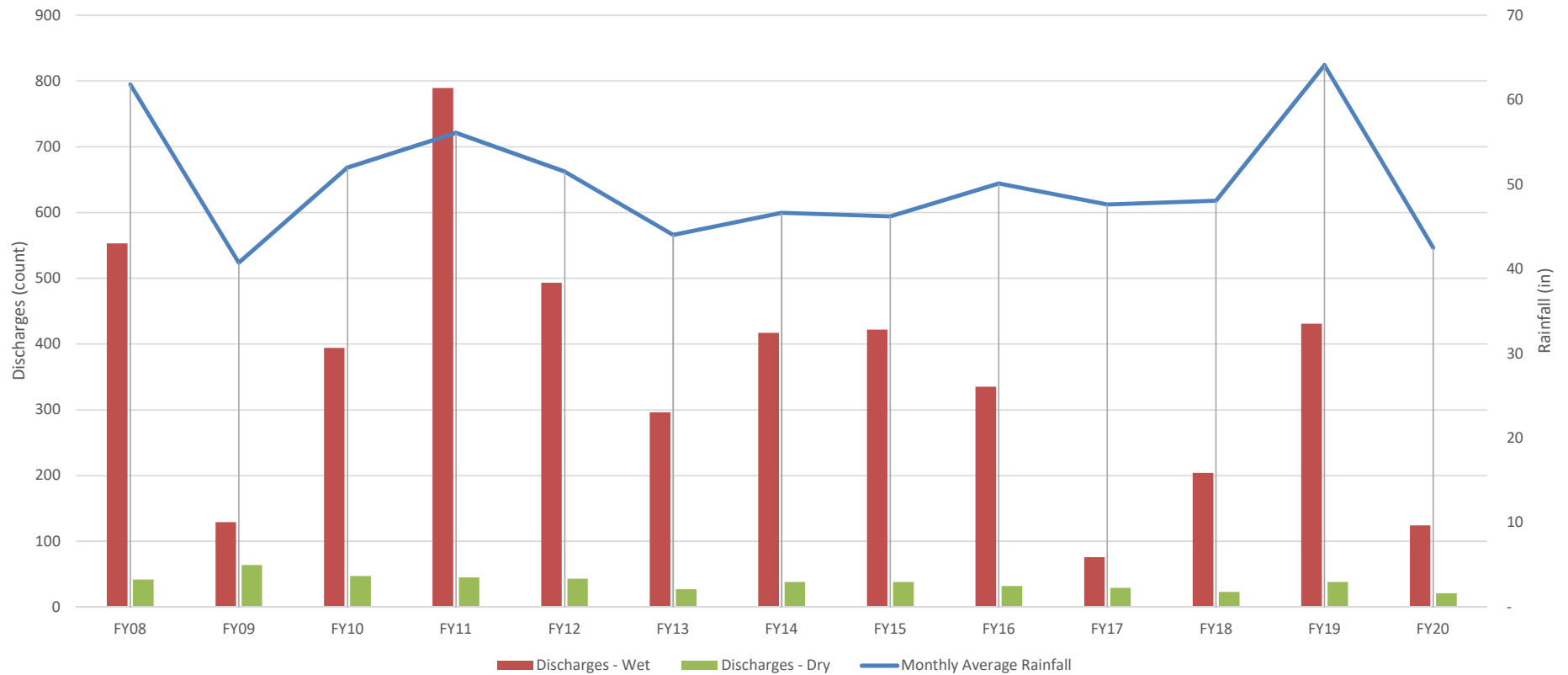


# IOAP Projects

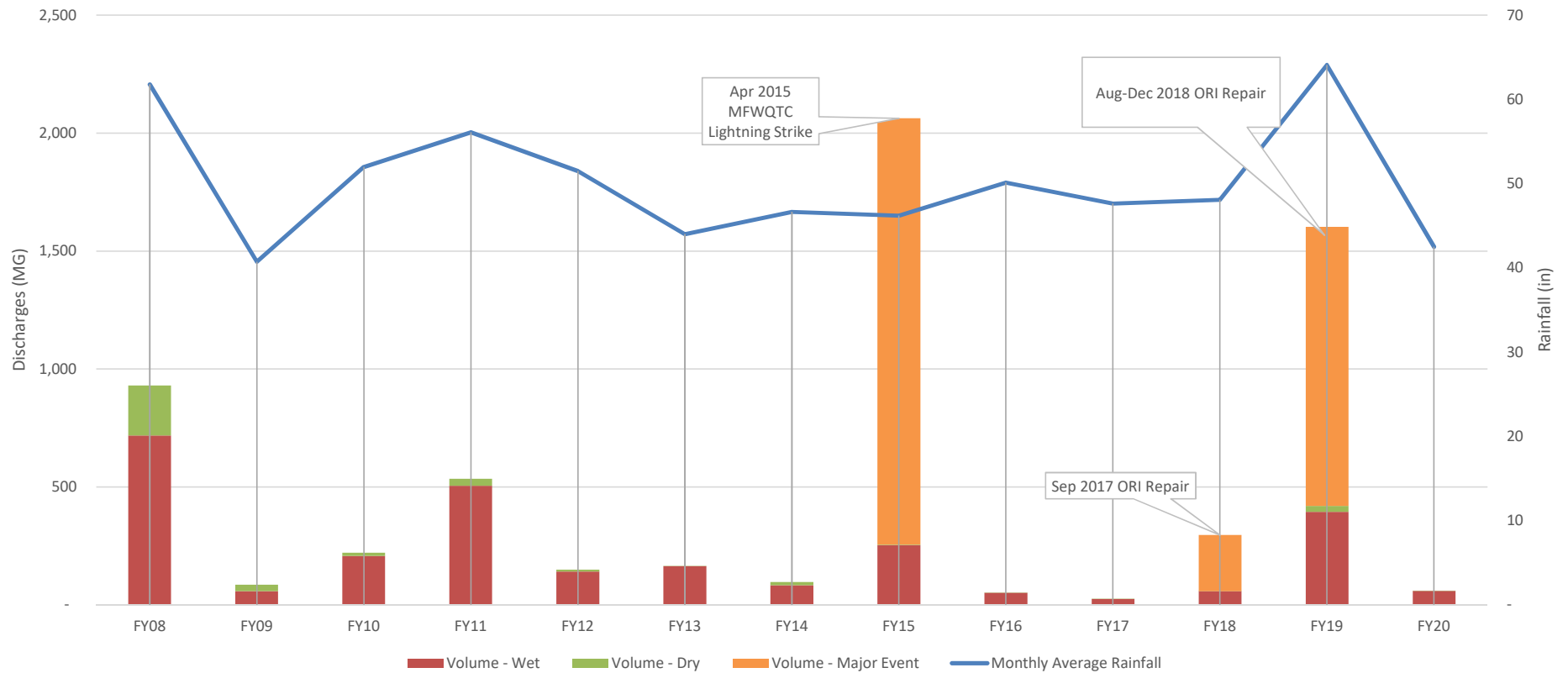




# Unauthorized Discharges - Occurrences



# Unauthorized Discharges - Volume



# Project Updates



# Waterway Protection Tunnel

## Wet Weather Team Update



## Project Summary

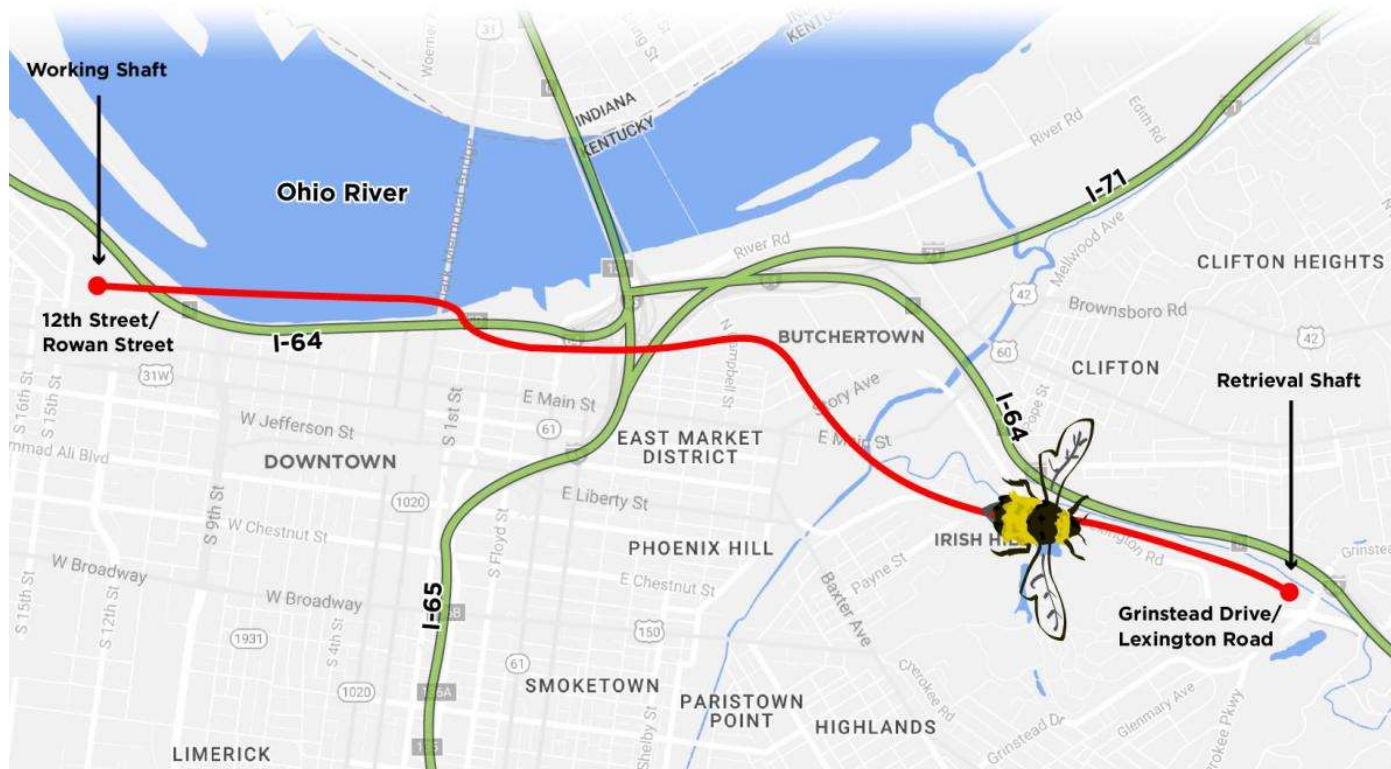
- Storage Volume
  - Required: 44 MG
  - Provided: 55 MG
- Tunnel
  - 20-ft finished diameter
  - 20,205-LFT (4 miles) (plus 1,117 LFT for bifurcation)
  - 200-ft deep
- As of July 19, 2020:
  - Approximately 17,706 LF of 20,205 LF (about 88%) of tunnel has been excavated
  - Bumblebee is located under Middle Fork Beargrass Creek near the Girls Scouts of Kentuckiana Building
  - There is approximately 2,500 linear feet of excavation remaining

	Initial	Current (Change Order No 8)
Contract Amount	\$106,670,000.00	\$148,417,760.40 (+39.14%)
Notice to Proceed	November 8, 2017	-
Substantial Completion	July 28, 2020	December 31, 2020
Final Completion	October 26, 2020	March 31, 2021

# WATERWAY PROTECTION TUNNEL



#MSDtunnel



 Interstates     Tunnel Alignment



# Project Photo

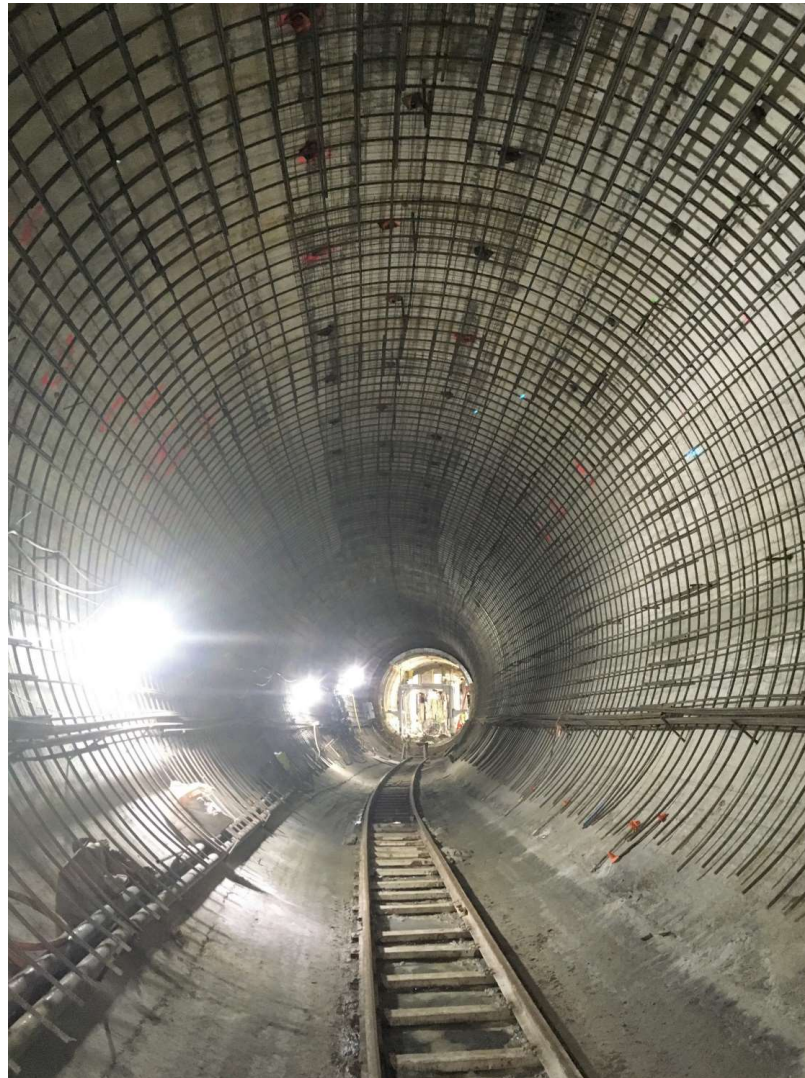


## Project Photo – DS04 Adit junction with main tunnel





## Project Photo – Steel rebar in Tunnel Bifurcation



## Project Photo – Tunnel concrete lining forms



## Project Photo – Placing concrete in DS01 Adit



# Rowan Pump Station & Downtown CSO Interceptor

## Wet Weather Team Update



# Project Summary

- Consent Decree Deadline: December 31, 2020
- Pump Station Building
  - 126-foot x 72-foot
  - Pump Shaft
  - Loading/Maintenance Area
  - Elevated Electrical/Control Room
- Pump Shaft – 40 MGD Capacity
  - 10 submersible pumps (3,500 gpm each)
  - 2 grit pumps (1,000 gpm each)
  - 60-inch gravity sewer to Ohio River Interceptor (ORI)

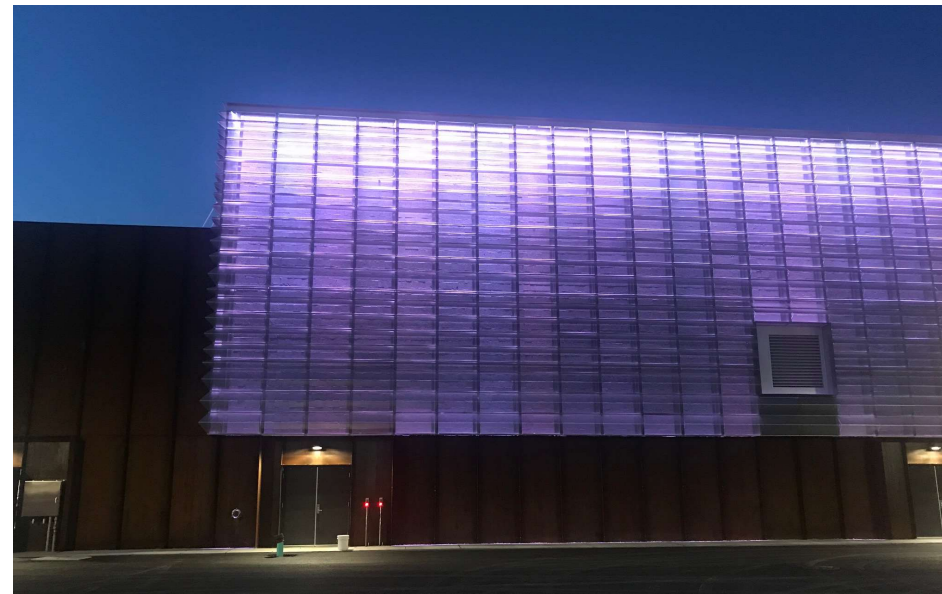
	Initial	Current (Thru CO No. 6)
Contract Amount	\$25,899,973.00	\$26,126,009.81 (0.87%)
Notice to Proceed	July 9, 2018	-
Substantially Operational	July 8, 2020	August 8, 2020
Substantial Completion	August 17, 2020	September 17, 2020
Final Completion	September 16, 2020	October 17, 2020

## Project Summary (cont.)

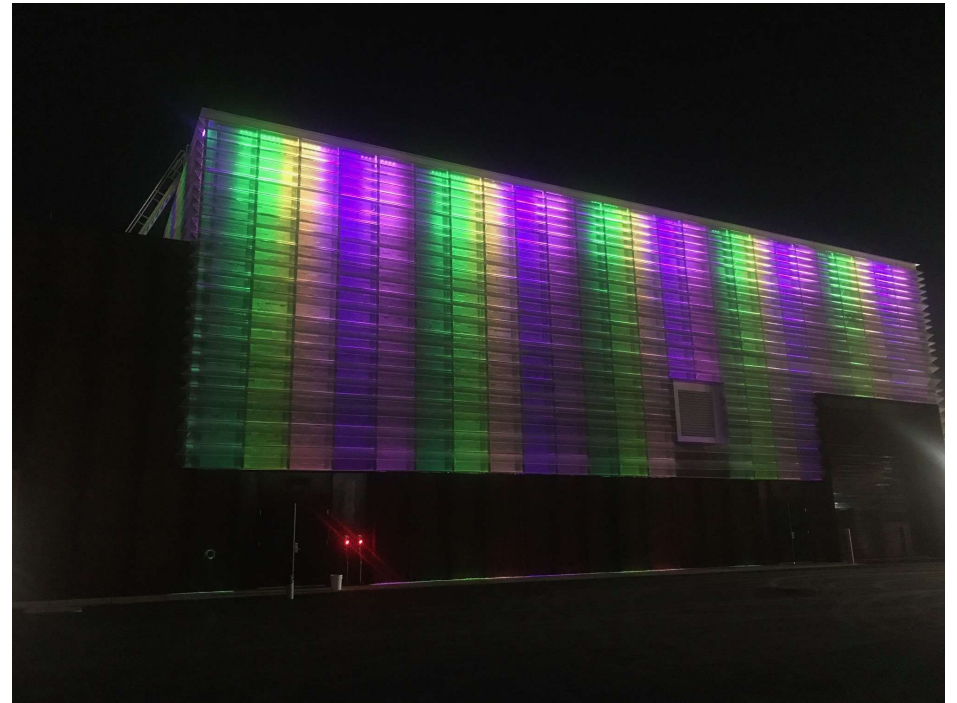
- Downtown CSO Interceptor Features
  - Installation of 2,250 linear feet of sewer pipe, ranges from 12-inch to 60-inch
  - Construction of eight (8) control structures to divert flow from the existing CSO structures to the new ORT drop shafts

	Initial	Current (Thru CO No. 6)
Contract Amount	\$25,899,973.00	\$26,126,009.81 (0.87%)
Notice to Proceed	July 9, 2018	-
Substantially Operational	July 8, 2020	August 8, 2020
Substantial Completion	August 17, 2020	September 17, 2020
Final Completion	September 16, 2020	October 17, 2020

# Rowan Pump Station Project Photos



## Rowan Pump Station Project Photos





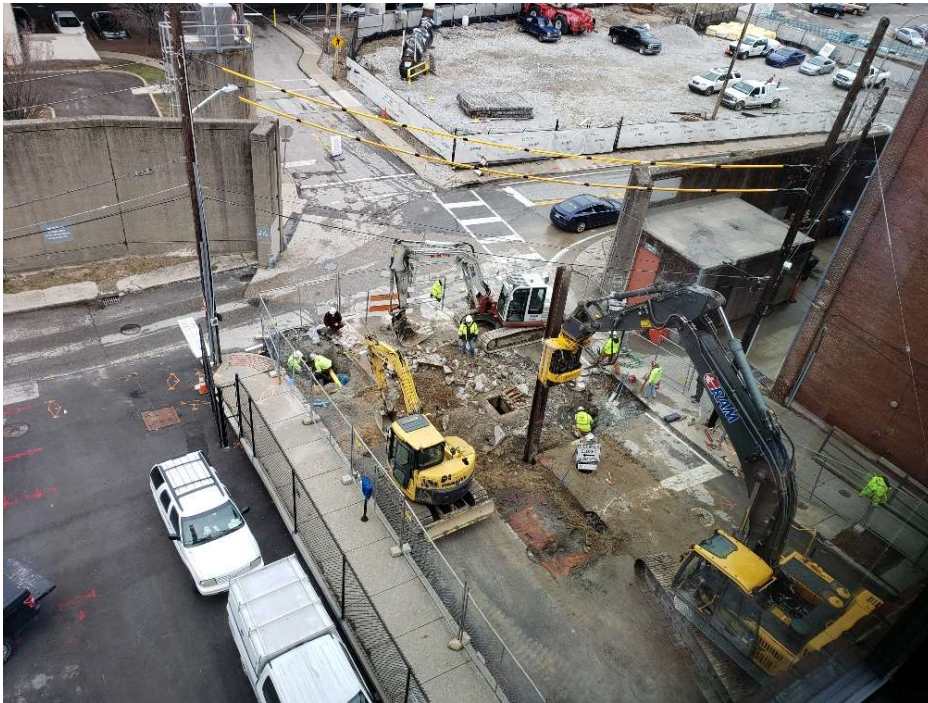
# Rowan Pump Station Project Photos



# Rowan Pump Station Project Photos



## Downtown CSO Interceptor Project Photos



8<sup>th</sup> and Washington Street

## Downtown CSO Interceptor Project Photos



10<sup>th</sup> Street



Franklin Street

# Lexington & Payne CSO Interceptor

## Wet Weather Team Update



## Project Summary

	Initial	Current (Change Order No 3)
Contract Amount	\$23,135,011.00	\$23,658,689.75 (2.26%)
Notice to Proceed	November 27, 2017	-
Substantial Completion	November 3, 2019	January 1, 2020
Final Completion	February 1, 2020	April 16, 2020

- Sewer line to capture overflows from nine (9) existing CSOs and convey that flow to the tunnel
- Interceptor will be below the concrete channel of South Fork Beargrass Creek
- Approximately 5,000 linear feet in length
  - From E Broadway to E Main Street
  - Pipe size ranging from 36-inch to 102-inch diameter
- Consent Decree Deadline: December 31, 2020

## Project Photo



## Project Photo





## Project Photo

