



CITY OF ATLANTA DEPARTMENT OF
**watershed
management**

Keisha Lance Bottoms, Mayor
Kishia L. Powell, DWM Commissioner

Atlanta City Council | City Utilities Committee Department Quarterly Report FY2019 – 4th Quarter (April – June)

August 13, 2019



Updates to Council





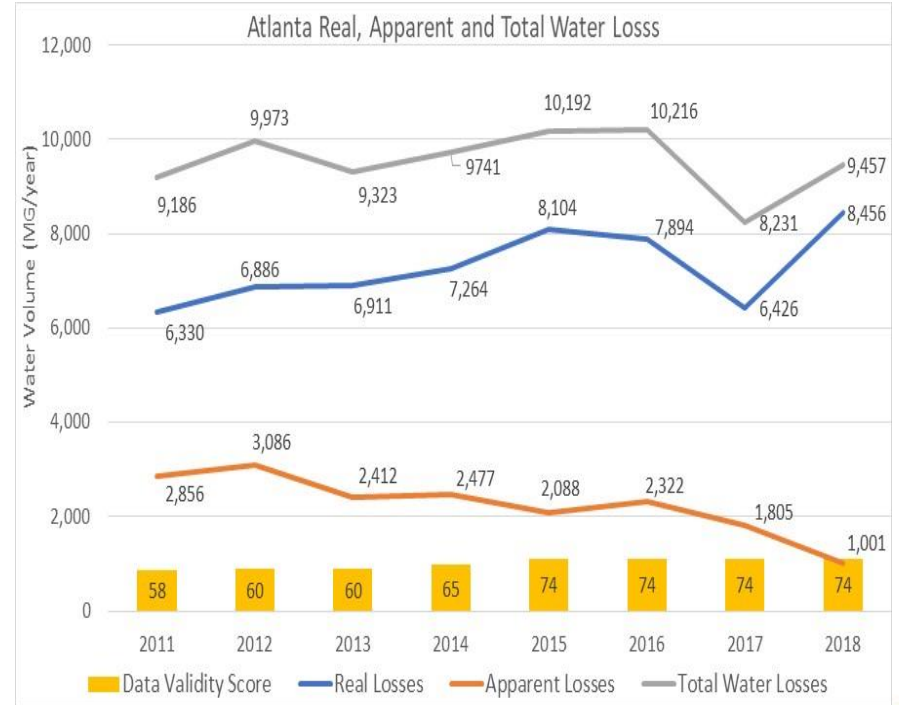
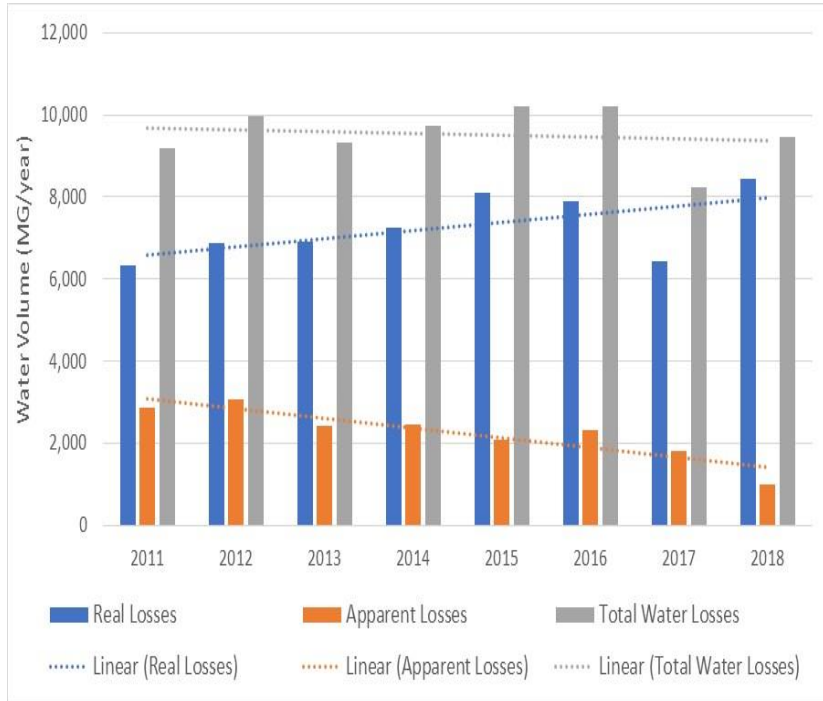
Water Loss Control and Reduction Plan

Formal plan:

- Defines water loss control and reduction objectives
- Identifies program elements for water loss control and reduction goals and objectives
- Outlines the processes and procedures the City will follow to implement annual Water Loss Audits
- Defines implementation steps to accomplish the water loss control and reduction goals and objectives
- Establishes Key Performance Indicators (KPIs) to track and monitor progress toward meeting water loss control and reduction goals and objectives
- Suggests measures using the Water Loss Audit and KPI results to achieve continuous improvement towards meeting those goals and objectives

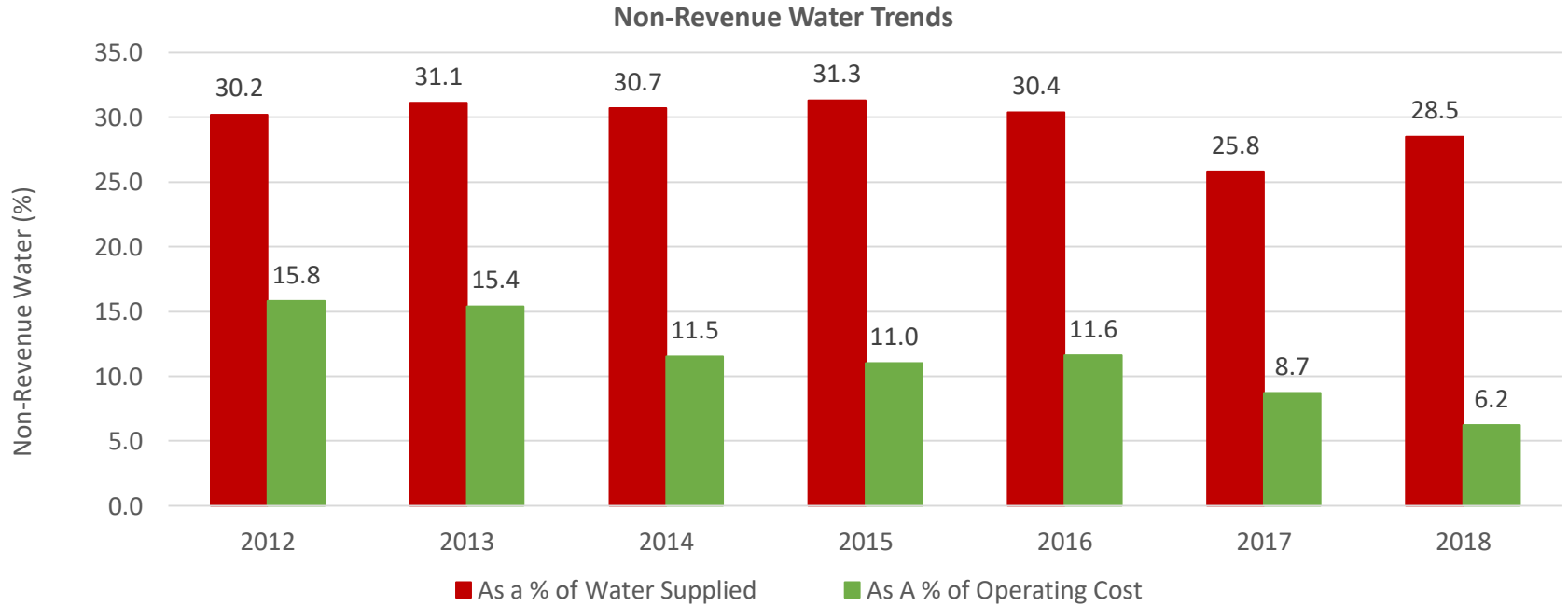


2018 Annual AWWA Water Loss Audit Results



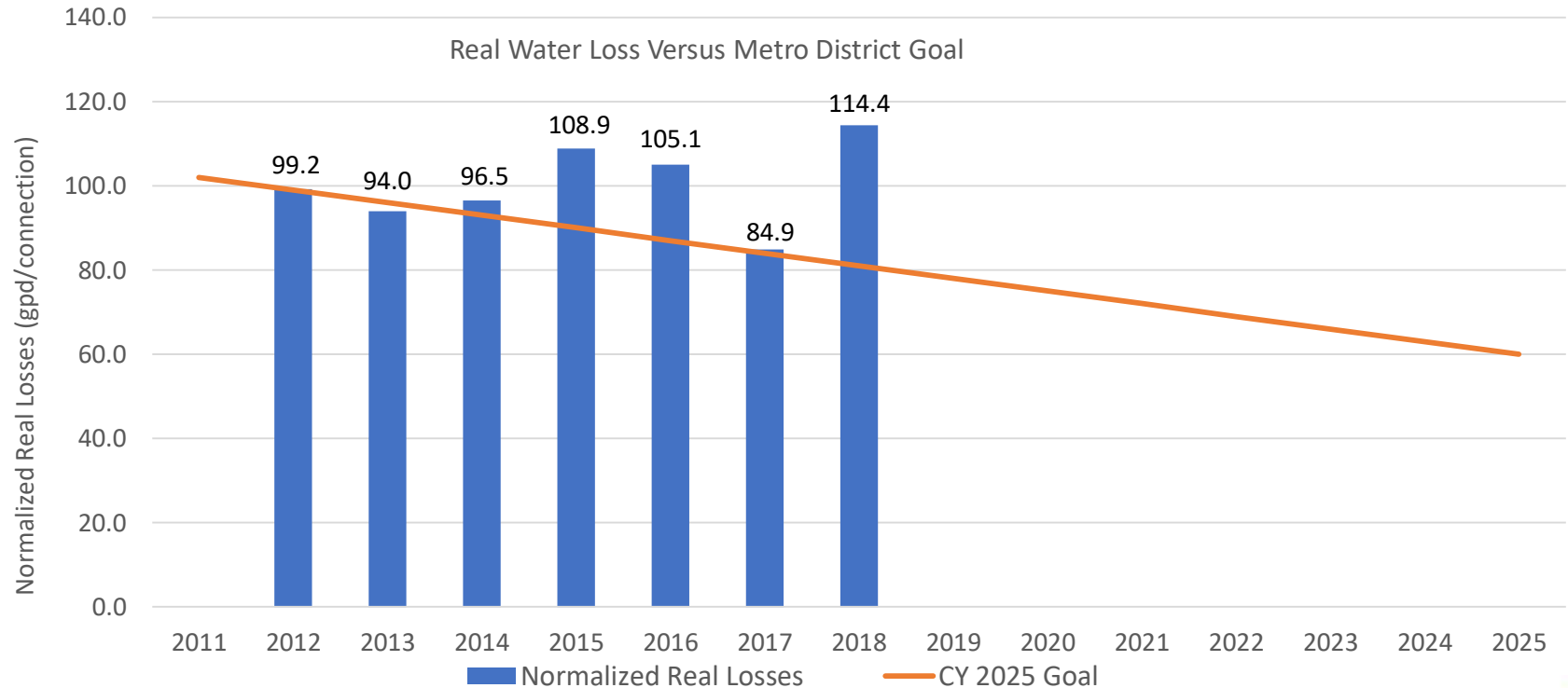


Non-Revenue Water Trends





Progress vs. CY2025 Metro District Goal





Water Loss Reduction Priorities

- Small Diameter Main Replacement project in leak prone areas
- Track volume of small leak sources ("street leaks") and main breaks
- Track non-revenue water for flushing, hydrant testing, valve exercising
- Increase number of pressure zones to allow reduction in overall system pressures and thus reduce leakage volumes
- Large Diameter Mains Condition Assessment program
- Continued implementation of water distribution system replacement and rehabilitation
- Improve leak/break repair completion times
- ID & remove leaking "flusher valves" (NE Quadrant 685 w/ ~10% leaking)
- Conduct proactive leak detection
- Continue plant/production annual meter calibration
- Ensure wholesale & large customer meters are routinely calibrated
- Continue OLEA large meter analytics
- Small and Large meter maintenance, repair and replacement
- Continue to alert customers of leaks (robo-calls)
- Provide educational assistance to customers to identify property-side leaks
- Continue to manage unauthorized water usage to proactively recover lost revenues
- Continue annual AWWA Water Loss Audits

Administrative Highlights

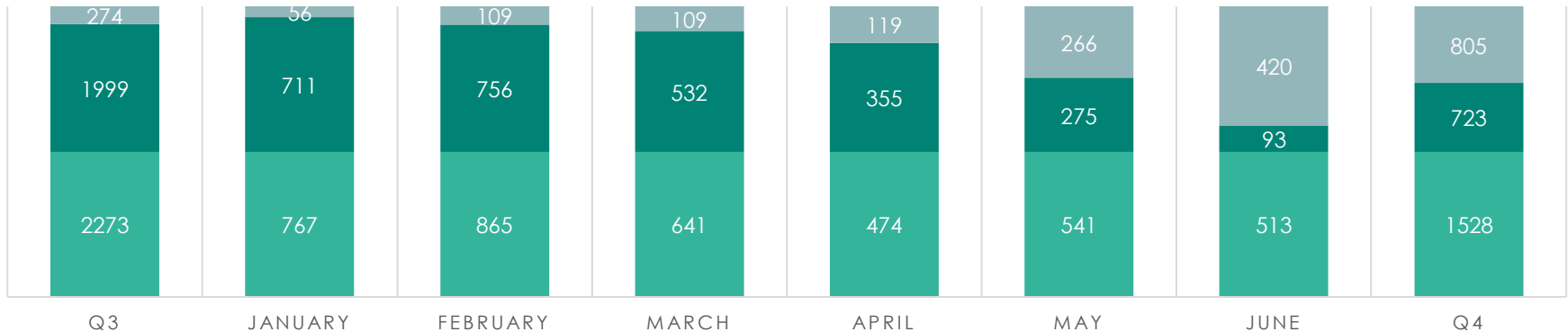




Bill Dispute Overview

BILL DISPUTES WORK ORDER SNAPSHOT

■ Created in ■ Completed ■ Open

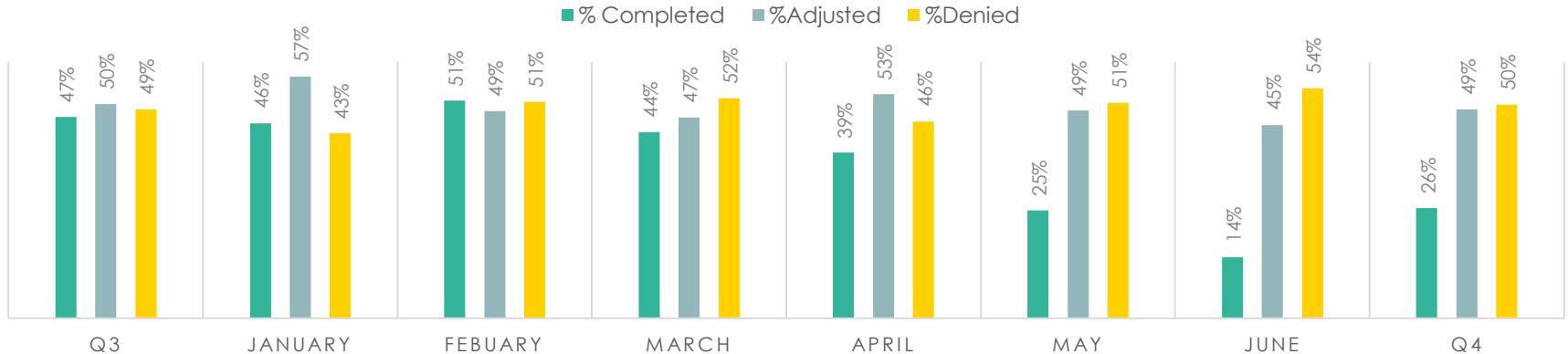


- Of 1528 work orders created in Q4, 723 have been completed leaving 805 remaining open and rolling into Q1.
- Recent audit identified that several work orders were created for disputes but were not true disputes. A new disputes process is being created that will help with better identifying true disputes vs account review requests.



Bill Disputes Overview

DISPUTES COMPLETION SNAPSHOT (OF THOSE RECEIVED IN EACH TIME PERIOD)

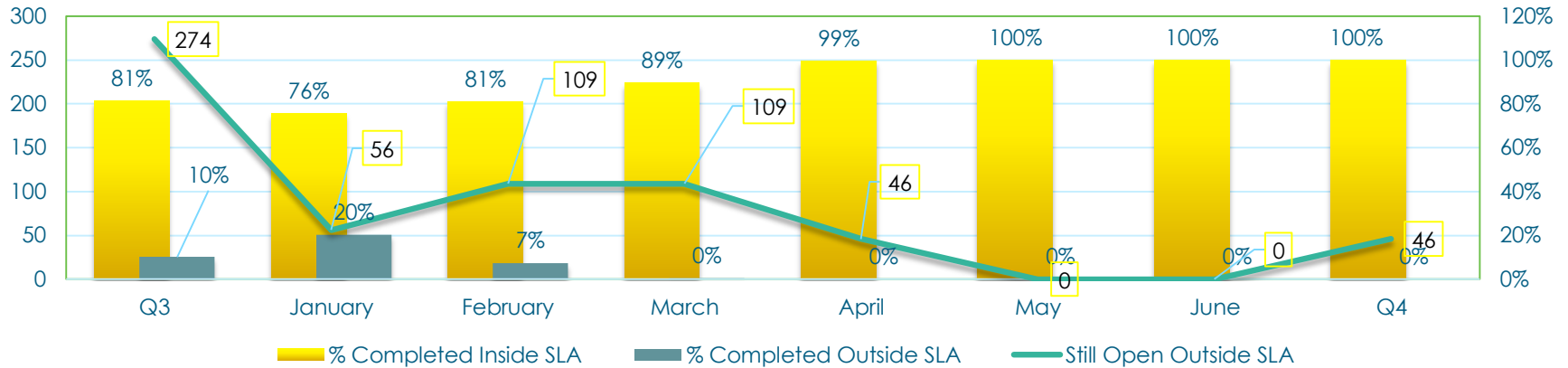


- 47% of the disputes created in Q3 were resolved in Q3. The remainder went into Q4 to be completed
- Of those accounts created in Q4 26% of them were also completed in Q4. Approximately 49% were Adjusted and 50% Denied
- There is a close trend between Q4 and Q3 data that of those disputes resolved close to half were adjusted and half were denied any adjustment



Bill Disputes Overview

BILL DISPUTES BY SLA STATUS (OF THOSE CREATED IN EACH PERIOD)



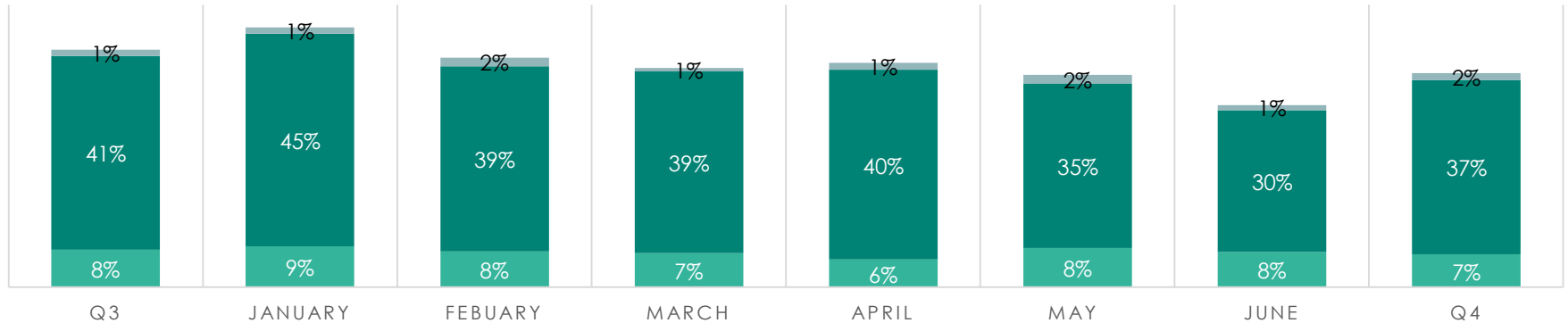
- Of those resolved so far that were created in Q4, 100% of them have been closed within SLA
- As of July 15th, 2019, 46 disputes that were opened in Q4 (April) are still open outside of SLA
- Of those resolved that were created in Q3, 81% of them were done so within SLA, 10% were resolved outside SLA, 274 were still open going into Q4



Adjustment Overview

ADJUSTMENT % BY RESOLUTION TYPE

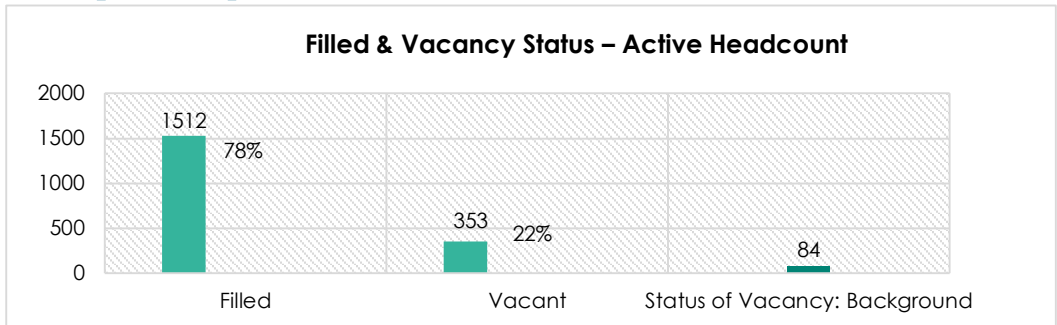
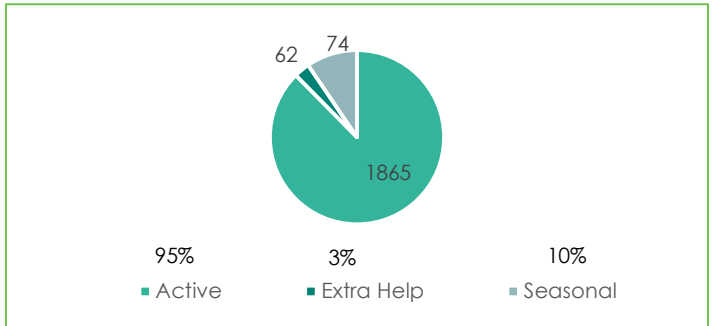
■ Adj. due to COA Repair ■ Adj. due to Cust. Repair ■ Adj. not leak related



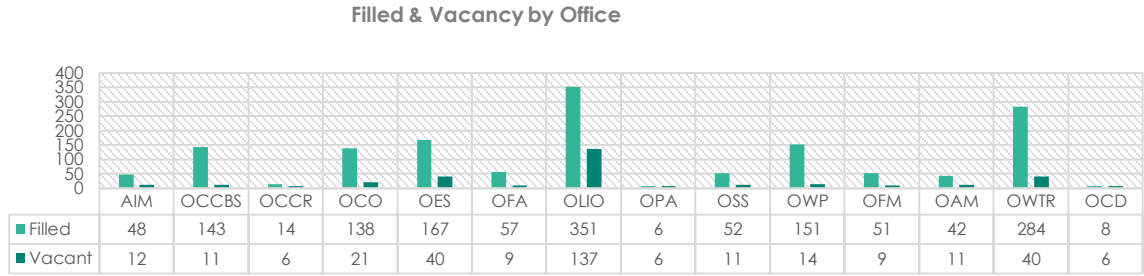
- Of those accounts that were created in Q3 and Q4 we can see that the types of adjustments done are closely similar over the time period
- Majority of the adjustments completed were done so for customer repairs and submitted invoices



Positions: Filled and Vacancy Report



- Notes:**
- Of the 353 Vacant Positions 84 are in Background
 - Internship program has 128 participants (showing active under OCO)
 - Executive Team Positions Filled
 - Hiring Blitz for high volume positions to begin in August



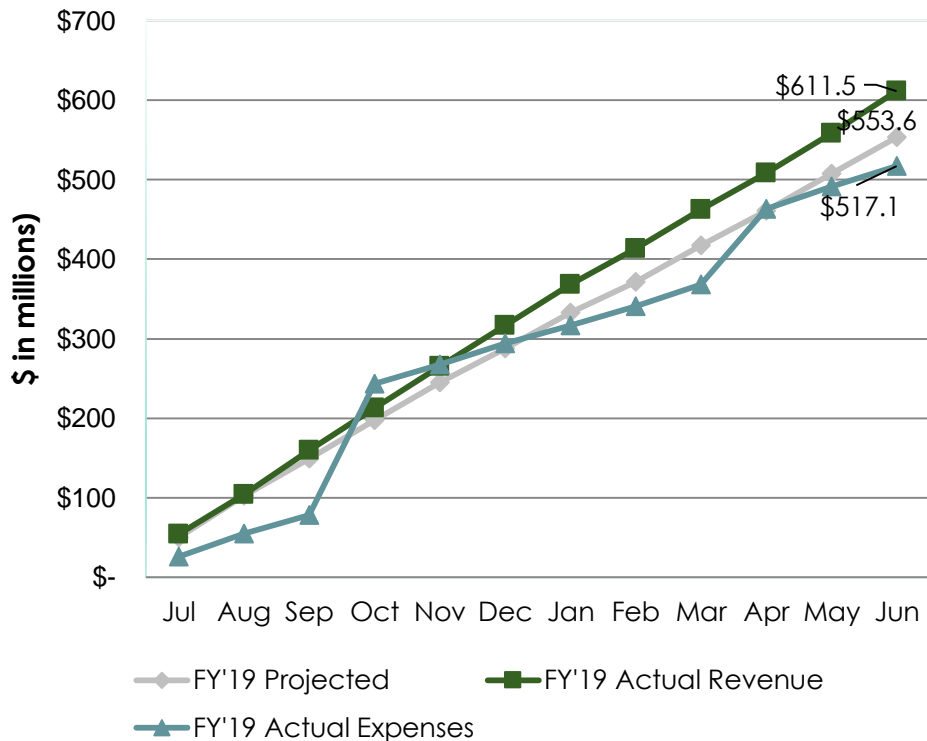
Key for Offices: AIM = Atlanta Information Mgmt; OCCBS = Customer Care/Billing Servs; OCCR = Communications/Community Relations; OCO = Commissioner's Office; OES = Engineering Servs; OFA = Financial Admin.; OLIO = Linear Infrastructure Operations; OPA = Performance & Accountability; OSS = Safety & Security Emergency Mgmt; OWP = Watershed Protection; OFM = Facilities Management; OAM = Asset Accountability Mgmt; OWTR = Water Treatment/ Reclamation; OCD = Consent Decree.

Financial Highlights





FY19 Operational Results



Fiscal Year 2019

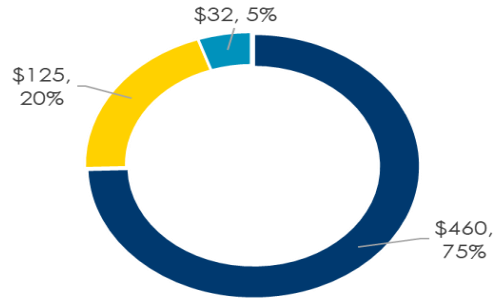
Month	Revenues (M)*		Expenses
	Projected	Actual	Actual
Jul '18	\$53.1	\$53.8	\$26.2
Aug '18	\$108.2	\$103.7	\$54.9
Sep '18	\$157.5	\$159.7	\$78.0
Oct '18	\$208.8	\$212.6	\$243.2
Nov '18	\$258.4	\$265.5	\$267.2
Dec '18	\$304.0	\$316.9	\$294.0
Jan '19	\$351.6	\$367.9	\$316.5
Feb '19	\$392.1	\$413.2	\$340.7
Mar '19	\$441.2	\$462.1	\$368.5
Apr '19	\$487.0	\$508.3	\$463.0
May '19	\$536.3	\$558.2	\$491.3
Jun '19	\$585.0	\$611.5	\$517.1

* Does not include other revenues; As of 6/30/19



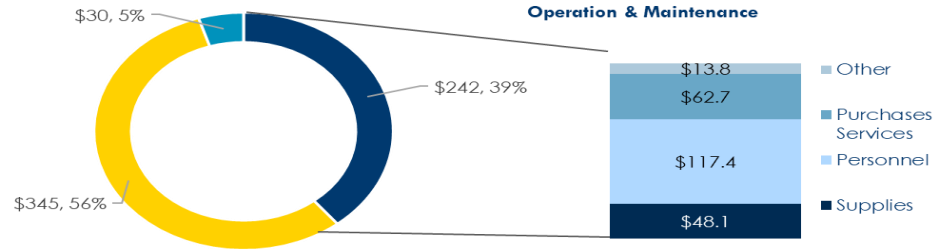
FY 2019 Budget

Revenue Sources (\$617M)



■ Water & Sewer ■ MOST ■ Misc

Appropriations (\$617M)



■ Operation & Maintenance ■ Non-Departmental ■ Other Departments

- Miscellaneous: IJ Revenue, tap meter sales, stormwater charges, interest earnings, administrative services

- Non-Departmental (Debt Service, indirect costs, PILOT/franchise fees, OPEB, GEFA payments/reserve, bad debt reserve, fund-wide reserve)

	OPERATION & MAINTENANCE (O&M)	
	Personnel	Non-Personnel
FY19 Budget	\$117.4	\$127.1
Through 3rd QTR of FY19	116.4	99.5
% Spent	99.1%	78.3%

*July 1, 2018 through June 30, 2019.



Collection Efforts

Commercial Accounts (OFA)



Vacant Accounts (OFA & OSS)



Multi-Family Accounts (OFA)



FY19 Performance

- **\$11,542,802.08** collected
- 6,405 delinquent payments collected.

Next Steps

- Continue shut-offs efforts with 50 accounts per week
- Maximize collection efforts with site visits by collections staff for larger commercial water users

FY19: Performance

Commercial (OFA)

- **\$2,344,865.97** collected
- 257 new service accounts enforcement

Residential (OSS)

- **\$231,030.13** collected
- 2,010 new service accounts enforcement

Next Steps

- Continue new service enforcement and collection action against commercial and residential accounts.

FY19: Performance

- **\$ 7,500,020.20** collected
- 5,546 delinquent payments collected.
- Top 25 delinquent accounts isolated for collection efforts

Next Steps

- Continue working with Multi-Family customers to resolve past due receivables on Top 25 delinquent accounts.
- Continued coordination with enhance City's legal position and collection abilities.

*July 1, 2018 through June 30, 2019

Operational Highlights





FOR Atlanta Metrics

Metric Description	Benchmark	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Call volume per 1,000 accounts		133.07	111.96	118.92	117.9	119.8	111.71
Customer Service Complaints per 1,000 accounts	5.2	8.8	7.7	7.2	7.2	7.0	7.0
Technical Service Complaints per 1,000 accounts	4.1	19.7	15.6	17.6	20.6	17.6	15.6
Estimated Bills as a percent of Bills Issued	3.00%	3.38%	3.34%	3.27%	3.12%	3.32%	3.32%
12-month O&M cost per million gallons of drinking water treated	\$398.05	\$ 566.95	\$ 572.76	\$ 592.67	\$ 600.09	\$ 588.42	
12-month O&M cost per million gallons of wastewater treated	\$854	\$ 880.27	\$ 897.06	\$ 934.23	\$ 905.23	\$ 896.78	\$ 902.36
12-month Purchased power per million gallons of water treated (drinking water)		2,197	2,194	2,186	2,186	2,179	2,185
12-month Purchased power per million gallons of water treated (wastewater)		2,768	2,743	2,738	2,716	2,718	2,725
Drinking Water Compliance Rate as a percent of prior 365 days in compliance	100%	100%	100%	100%	100%	100%	100%
Wastewater Treatment Compliance Rate as a percent of prior 365 days in compliance	100%	90%	89%	86%	83%	83%	80%
# of Sewer Spills per 100 miles of sewer pipe (Annual)		7.6	7.6	8.6	9.5	10.0	9.7
# of Main Breaks per 100 miles of drinking water pipe (Annual)	15	12.09	11.81	11.88	12.27	12.34	12.13
# of Completed Bill Adjustment work orders		227	434	223	418	273	304
# of Delinquent Accounts		30,120	29,874	29,458	28,052	28,492	28,872
12-month New Leak Work Orders per 100 miles of drinking pipe		69.20	69.20	71.29	76.83	80.48	78.96
% of Total Hydrants Functional		98.71%	98.15%	98.29%	98.48%	98.64%	98.15%



CSTAT Metrics

- The On-Time SLA Percentage for DWM in June 2019 was 94.1%
 - The Office of Watershed Protection's SLA Percentage for June 2019 was 88.3%

SR-WO Type	SLA	Apr 19 %On-Time	May 19 %On-Time	Jun 19 %On-Time
Erosion Complaint	7 bus days (call to resolution)	● 95.1	● 100.0	● 100.0
Erosion Control Final Inspection (Commercial)	4 bus days (call to resolution)	● 55.0	● 86.7	● 82.4
Erosion Control Final Inspection (Residential)	4 bus days (call to resolution)	● 82.4	● 86.3	● 85.0
Erosion Control Pre-Construction Inspection (Commercial)	7 bus days (call to resolution)	● 100.0	● 100.0	● 96.0
Erosion Control Pre-Construction Inspection (Residential)	4 bus days (call to resolution)	● 85.8	● 84.4	● 84.8
Existing Grease Trap Inspection	10 bus days (call to resolution)	● 100.0	● 100.0	● 100.0
Illegal Grease Dumping	1 bus day (call to inspection)	● 100.0	● 100.0	n/a
New Facility Grease Trap Inspection	7 bus days (call to resolution)	n/a	n/a	● 100.0
Sewer Overflow/Spill Clean Up	3 bus days (WO Initiation to WO Start Date)	● 91.9	● 95.9	● 96.1
DWM Monthly SLA On-Time %		86.3%	89.0%	88.3%



CSTAT Metrics

The Office of Customer Care and Billing Services' SLA Percentage for June 2019 was 100%

SR-WO Type	SLA	Apr 19 %On-Time	May 19 %On-Time	Jun 19 %On-Time
Burst Pipe (Private) - Turn Off Request	1 Business Day	● 100.0	● 100.0	● 100.0
Close Account - Vacant - Turn Off	24 hours within scheduled date	● 100.0	● 100.0	● 100.0
Meter Reset	5 business days	● 100.0	● 100.0	● 100.0
Missing/Damaged DW Meter Lid	2 Business Days	● 100.0	● 100.0	● 100.0
New Account Request - Not Vacant (Move In / Move Out)	24 hours within scheduled date	● 100.0	● 100.0	● 100.0
New Account Request - Vacant	24 hours within scheduled date	● 100.0	● 100.0	● 100.0
DWM Monthly SLA On-Time %		100.0%	100.0%	100.0%



CSTAT Metrics

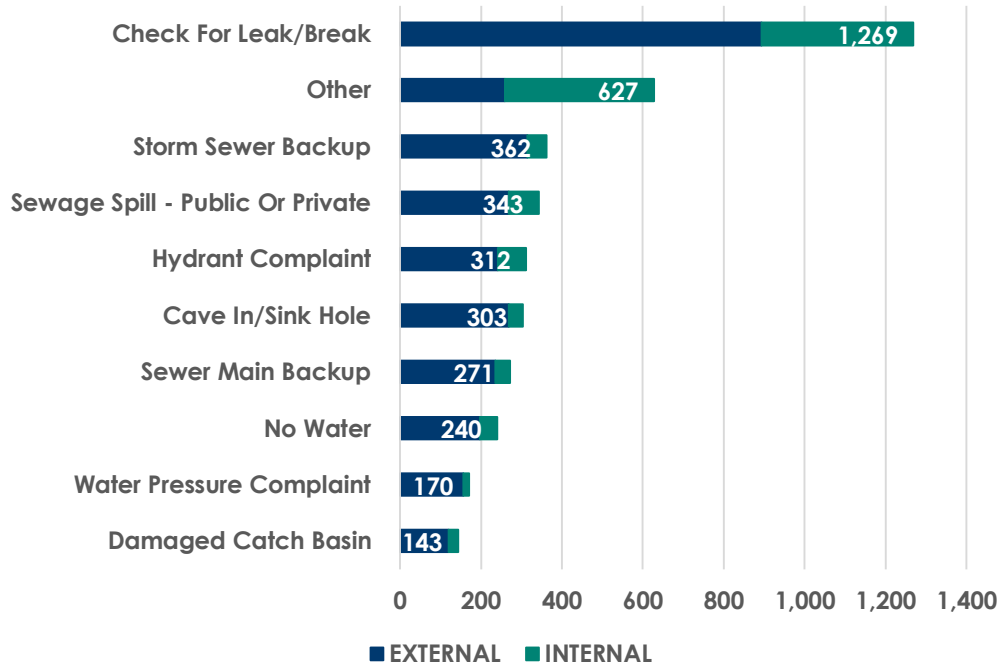
The Office of Linear Infrastructure Operations' SLA Percentage for June 2019 was 84.1%

SR-WO Type	SLA	Apr 19 %On-Time	May 19 %On-Time	Jun 19 %On-Time
Broken Drinking Water Service Line Repair	45 days (inspection to resolution)	93.8	96.4	96.5
Broken Sewer Line Repair	45 days (inspection to resolution)	86.8	78.9	81.6
Clear Storm Drain/Catch Basin	45 days (inspection to resolution)	100.0	100.0	97.2
Hydrant Complaint (Leaky Hydrant, Hydrant Knocked Off / Damaged)	24 hours (call to inspection)	98.2	100.0	100.0
Hydrant Leak Repair	10 days (inspection to resolution)	35.5	14.7	3.4
Hydrant Repair/Replace	20 days (inspection to resolution)	44.7	36.2	28.2
Low Water Pressure	24 hours (call to inspection)	95.9	98.1	100.0
Meter Leak Repair	7 days (inspection to resolution)	100.0	n/a	100.0
Missing/Damaged WW Manhole Lid/Cover	24 hours (call to resolution)	98.0	100.0	93.9
No Water - Infrastructure Related	24 hours (call to inspection)	94.4	98.5	100.0
Possible Sewer Cave In	8 hours (call to inspection)	98.0	97.3	97.9
Possible Sewer Main Back Up / Blockage	8 hours (call to inspection)	99.0	100.0	96.2
Possible Sewer Overflow/Spill	8 hours (call to inspection)	97.9	100.0	100.0
Readjust/Replace Street Plate	24 hours (call to resolution)	83.3	79.4	87.5
Sewer Odor	8 hours (call to inspection)	100.0	100.0	92.3
Street Flooding during or after a rain event / Storm Sewer Back Up	8 hours (call to inspection)	95.6	96.6	97.5
Valve (or appurtenance) Leak Repair	45 days (inspection to resolution)	44.1	45.1	44.1
Water Main Break Repair	2 days (inspection to resolution)	100.0	100.0	94.1
Water visible in street, sidewalk, etc. / Check for leak or break	8 hours (call to inspection)	94.4	97.7	98.5
Monthly SLA on-time %		87.7%	85.4%	84.1%

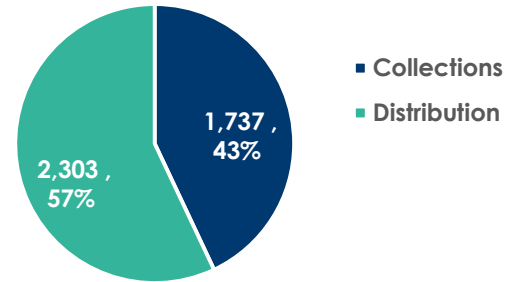


OLIO Recorded Service Request

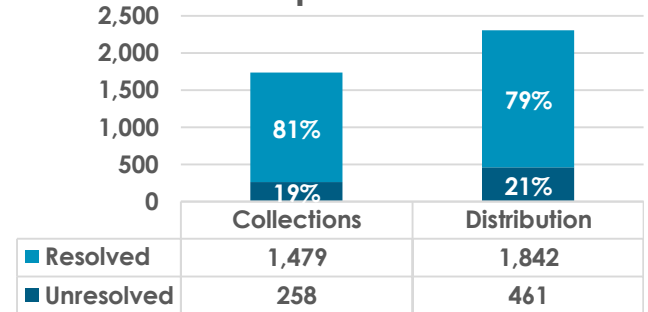
(April - June 2019)



Service Requests by Division



Resolution of Service Requests



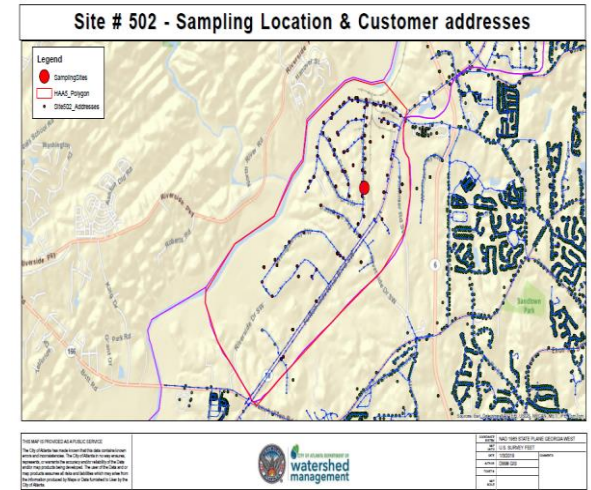
Compliance





Drinking Water Quality Exceedance HAA5

- **US EPA Disinfection Byproducts Rule (DBPR) - 2006**
 - Requires monitoring for chemicals that can occur from the breakdown of disinfection chemicals used to remove harmful bacteria from drinking water
 - DWM monitors for a group of five (5) chemicals known as Haloacetic Acids (HAA5)
 - HAA5 Maximum Contaminant
- **DWM monitors** 12 US EPA-approved sites throughout the distribution system
- **Sampling Site 502** – 6150 LaGrange Boulevard in the south portion Fulton County
 - 2019 first (1) quarter average: 62 µg/L > 60 µg/L MCL
 - Potentially affected 120 customer connections downstream





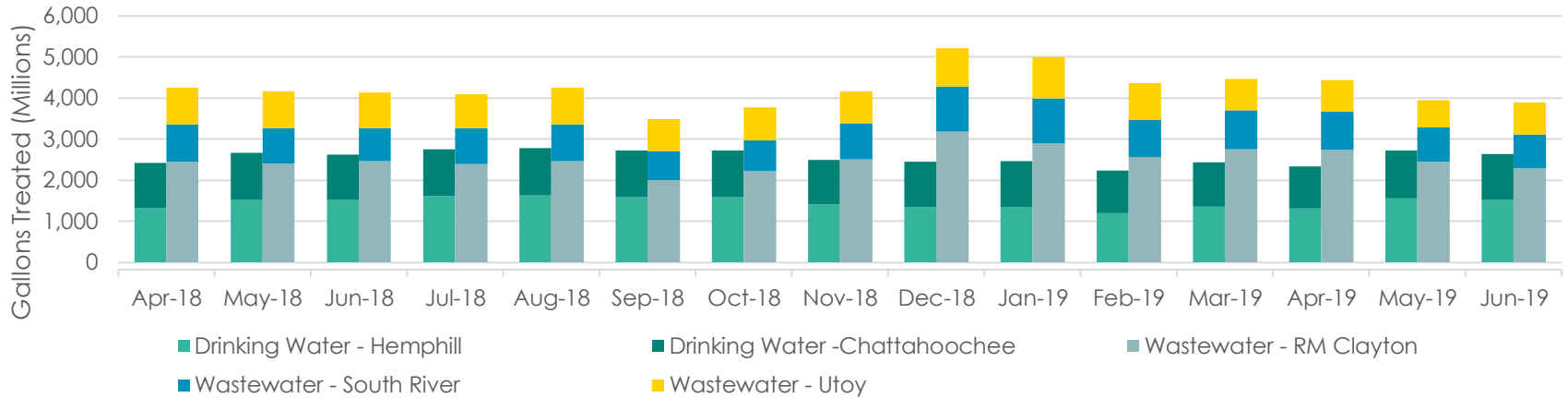
Drinking Water Quality Exceedance HAA5 cont.

- **Received Georgia EPD Notice of Concern on May 24, 2019 (NOV followed on June 18th)**
 - Required “Tier 2” customer notifications of exceedance within 30 days
 - Precautionary notification of potential health effects from long term exposure to HHA5s (70 years)
 - Notifications to be issued:
 - Explanatory letters sent to potentially affected customers on June 12, 2019
 - Public notice published in the AJC on June 9, 2019
- **Corrective Actions**
 - Review of enhanced flushing program and updating standard operating procedures (SOP) for distribution system flushing.
 - Distribution System Water Quality and Corrosion control study completed
 - Temporary process change to disinfection procedures



Treated Drinking Water and Wastewater

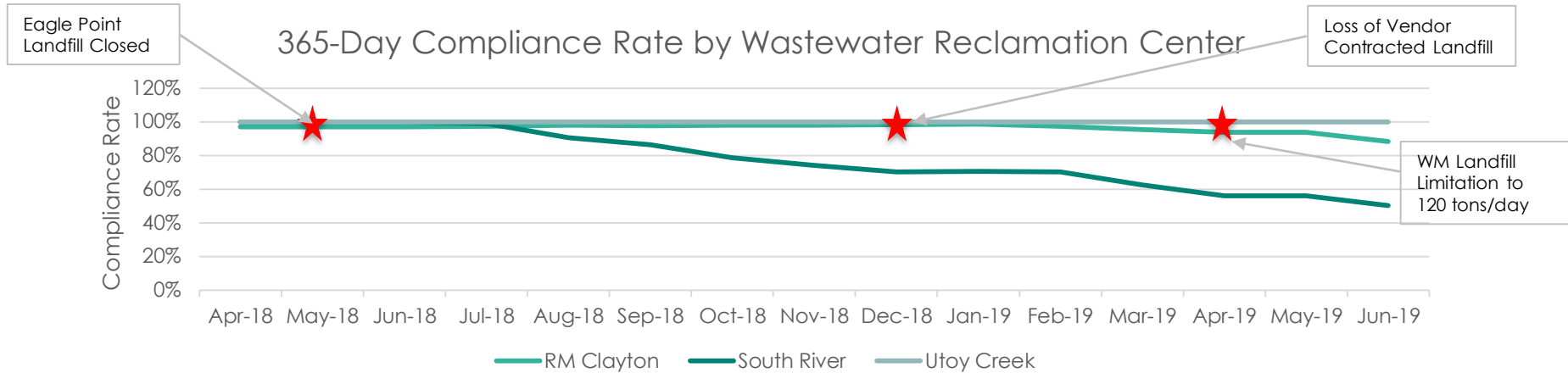
Millions of Gallons of Treated Drinking Water and Wastewater



- The spike in wastewater treatment coincides with December and January having the largest combined rainfall in more than 20 years at nearly twice the average amount over that period



Wastewater Reclamation Center Compliance Rates



- The compliance rates at the Utoy Creek and RM Clayton WRC facilities have remained relatively stable, however the new limitations for biosolid disposals have significantly affected the compliance rate for our South River WRC facility



Spill Data

Quarter*	2016	2017	2018	2019
Q4 (Oct-Dec)	32	35	84	-
Q3 (July –Sept)	28	28	44	-
Q2 (April – June)	41	58	47	69
Q1 (Jan – Mar)	88	56	70	83
Total	189	179	245	152
YTD Major Spills (> 10,000 Gallons)	9	15	18	16
YTD Spills Prevented (Flow Monitoring Alert Program)	21	21	33	20
YTD Rain Days >0.25 in	44	62	78	38
YTD Major Rain Induced Spills	0	5	12	13
YTD Rainfall Totals (inches)	42.43"	55.51"	77.91"	26.6"

*All Public Spills (Land & Creek)



Major Spills (April – June)

No	Date/Location/Receiving Water	Details
1	APRIL 14 TH 2335 ADAMS DR NW PEACHTREE CREEK	<ul style="list-style-type: none">• Volume: 31,890 gallons• Cause: Rain induced• Self-contained following storm event
2	APRIL 19 TH 1830 LONGDALE DR SE SUGAR CREEK	<ul style="list-style-type: none">• Volume: 150,600 gallons• Cause: Rain induced• Self-contained following storm event
3	APRIL 19 th 2335 ADAMS DR NW PEACHTREE CREEK	<ul style="list-style-type: none">• Volume: 15,400 gallons• Cause: Rain induced• Self-contained following storm event
4	APRIL 19 th 2310 ADAMS DR NW PEACHTREE CREEK	<ul style="list-style-type: none">• Volume: 14,605 gallons• Cause: Rain induced• Self-contained following storm event
5	APRIL 19 th 644 WESLEY DR NW PEACHTREE CREEK	<ul style="list-style-type: none">• Volume: 422,400 gallons• Cause: Rain induced• Self-contained following storm event



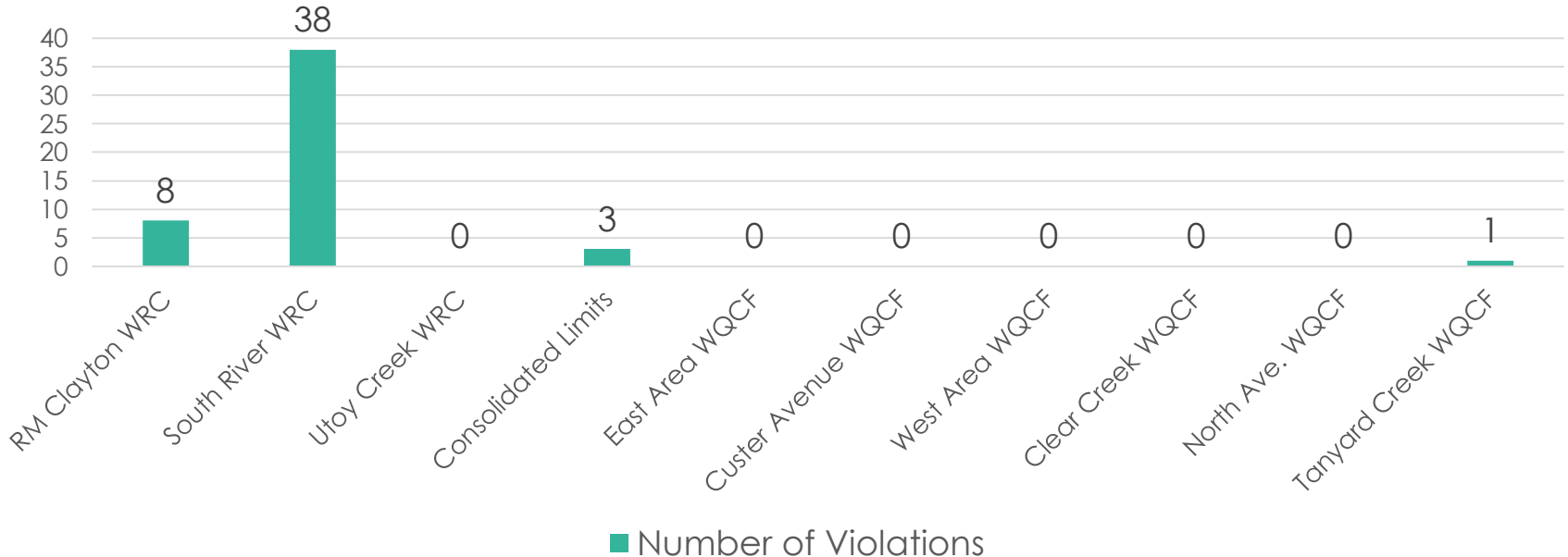
Major Spills (April – June) cont.

No	Date/Location/Receiving Water	Details
6	APRIL 19 TH 757 WOODWARD WAY NW PEACHTREE CREEK	<ul style="list-style-type: none">• Volume: 84,000 gallons• Cause: Rain induced• Self-contained following storm event
7	APRIL 19 TH 761 WOODWARD WAY NW PEACHTREE CREEK	<ul style="list-style-type: none">• Volume: 84,000 gallons• Cause: Rain induced• Self-contained following storm event
8	APRIL 19 th 2205 NORTHSIDE DR NW PEACHTREE CREEK	<ul style="list-style-type: none">• Volume: 11,425 gallons• Cause: Rain induced• Self-contained following storm event
9	APRIL 19 th 1380 BATTLEVIEW DR NW PEACHTREE CREEK	<ul style="list-style-type: none">• Volume: 17,952 gallons• Cause: Rain induced• Self-contained following storm event
10	APRIL 19 th 850 SELIG DR SW UTOY CREEK	<ul style="list-style-type: none">• Volume: 39,000 gallons• Cause: Rain induced• Self-contained following storm event
11	JUNE 6 TH 2334 BUTNER RD SW CAMP CREEK	<ul style="list-style-type: none">• Volume: 12,200 gallons• Cause: Debris• Mainline cleared using hydraulic pressure cleaner.



National Pollutant Discharge Elimination System (NPDES) Permit Compliance

Q2 – 2019 NPDES Violations – 50





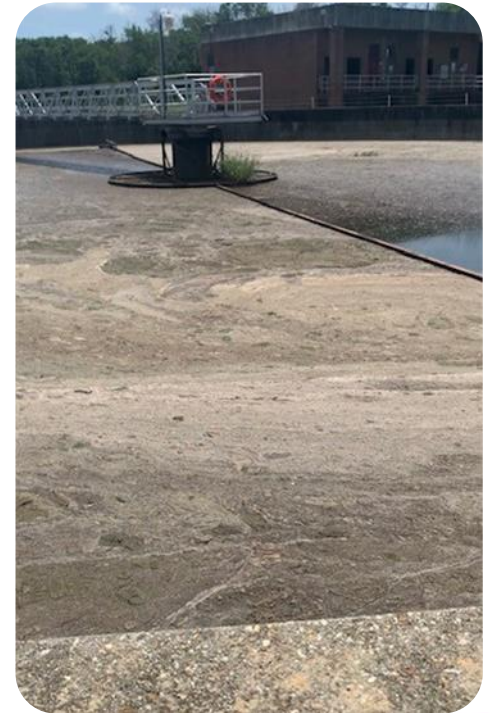
NPDES Violations cont.

Facility	Cause	Mitigation
RM Clayton WRC	<u>Operational</u> – 8 <ul style="list-style-type: none">• Total Suspended Solids (TSS) -5• Phosphorous – 3	Violations occurred due to the rainfall from 04/19/2019 – 04/20/2019
Consolidated Limits	<u>Operational</u> -3 <ul style="list-style-type: none">• Phosphorous – 1• Total Ammonia -1• CBOD5 – 1	Violations were due to the accumulation of sewage sludge and excessive rainfall during the month of April.
South River WRC	<u>Operational</u> – 38 <ul style="list-style-type: none">• Total Suspended Solids - 10• Dissolved Oxygen - 17• Fecal Coliform Bacteria – 4• Total Phosphorus – 4• Total Ammonia – 2• TSS Removal – 1	Most of the violations were due to high solids and frequent rain. Additionally, a load of ammonia appeared to come into the facility during the week of 04/13/2019.
Tanyard Creek	<u>Operational</u> - 1 <ul style="list-style-type: none">• Fecal Coliform Bacteria	The cause of the violation is unknown



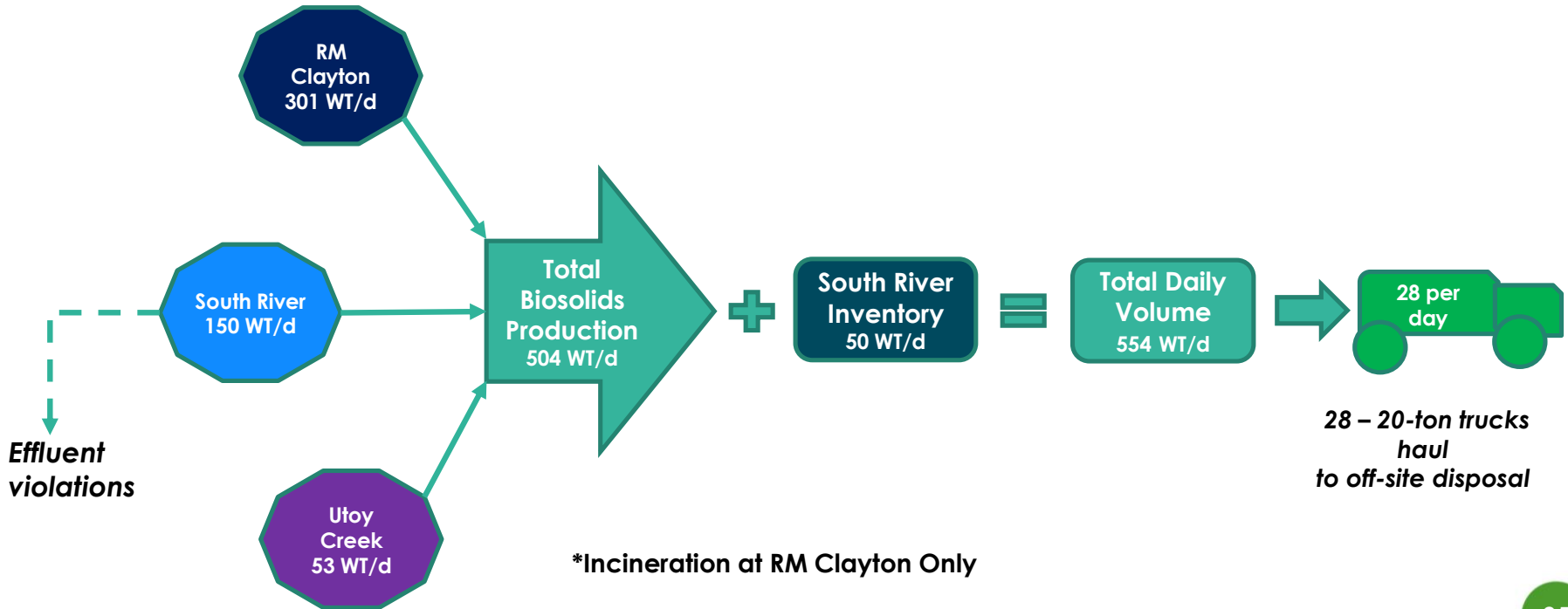
Biosolids Disposal – Current Conditions

- Limited landfill options constrain WRCs ability to waste sludge resulting in excess sludge inventory at South River and RM Clayton WRCs.
- 10-ft sludge blankets in South River Clarifiers are causing effluent permit violations
- Two (2) digesters at South River WRC currently off-line until March 2020; undergoing upgrades to provide better mixing and volatile solids destruction
- RM Clayton WRC also impacted by sludge blankets and has contributed to effluent violations at the RM Clayton WRC (phosphorous, TSS)
- RM Clayton WRC digesters require upgrades to reliably produce Class A biosolids and reduce volatile solids; upgrades planned as part of CIP



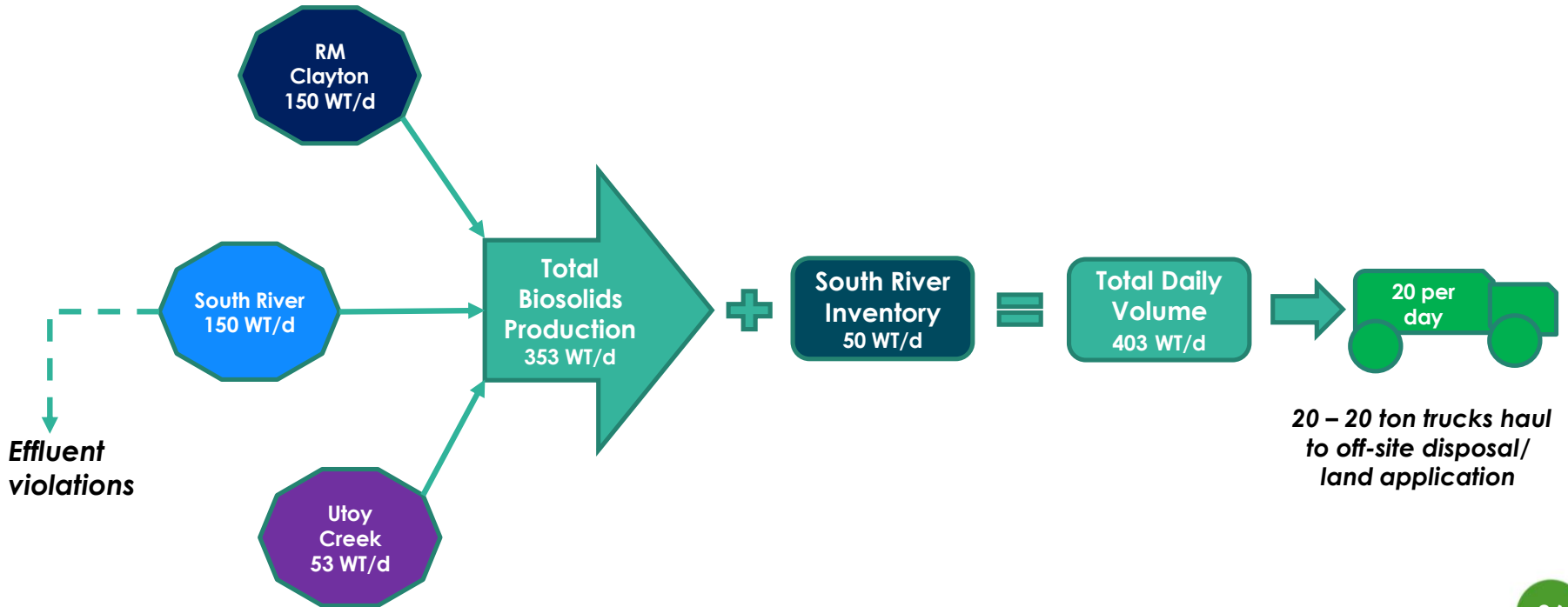


Conditions without Incineration*: 28 Trucks/Day Required at RM Clayton, Utoy Creek and South River



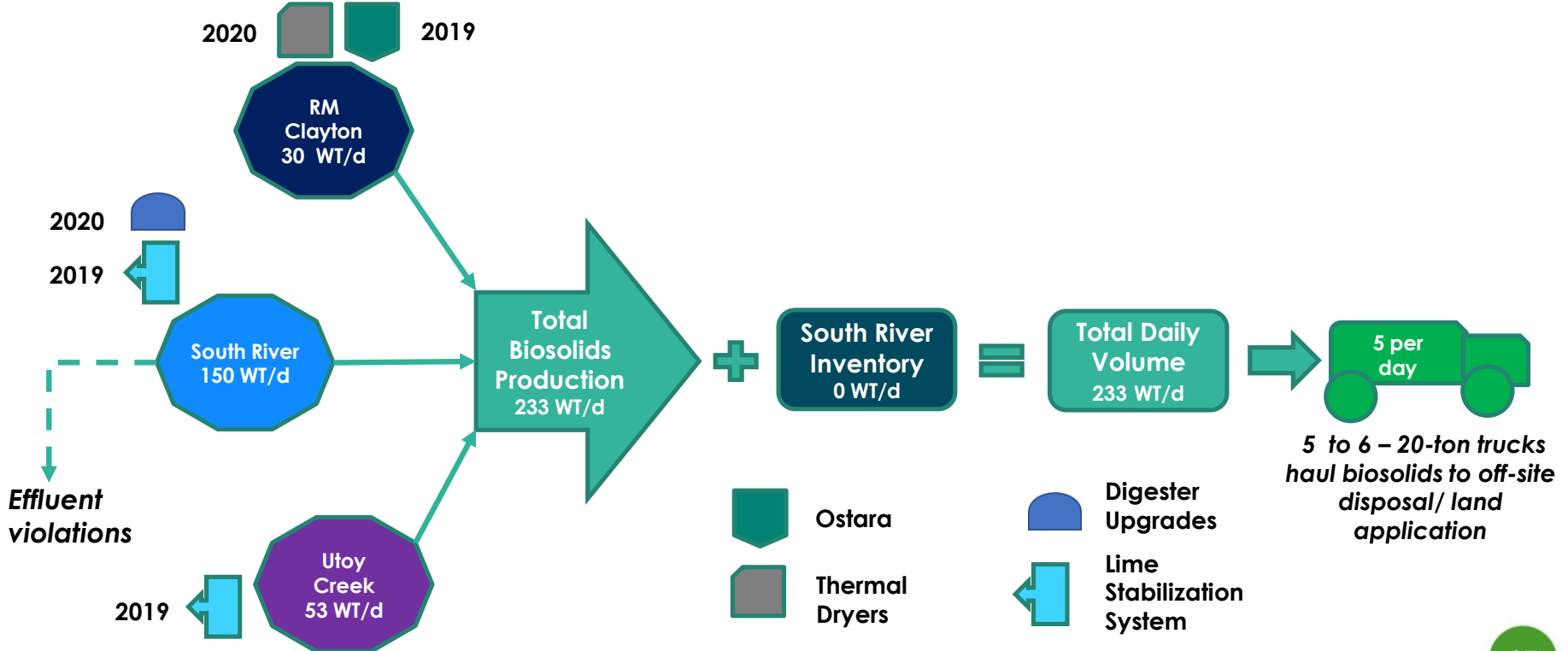


Conditions with Incineration: 20 Trucks/Day Required at RM Clayton, Utoy Creek and South River





Expected Conditions: 5 to 6 Trucks/Day after Current Upgrades in 2020





Biosolids Disposal – Near-Term Solutions

- Enhanced biosolids wasting program is required to reduce the inventory; working to install a 2MG temporary holding tank to store biosolids wasted from the final clarifiers at South River WRC (Qtr. 3 2019)
- Current vendor to install and operate new lime stabilization system at South River WRC (mid-Sept. 2019), Utoy Creek WRC (Aug. 2019), and RM Clayton WRC (Qtr. 2 2020) to transport Class A to land application sites
- Extend current contract for landfill disposal to continue hauling dewatered biosolids from RM Clayton WRC to landfill
- Emergency procurement initiated to source additional landfill capacity for disposal of dewatered biosolids, grit & screenings, ash, and water plant residuals





Landfill Disposal

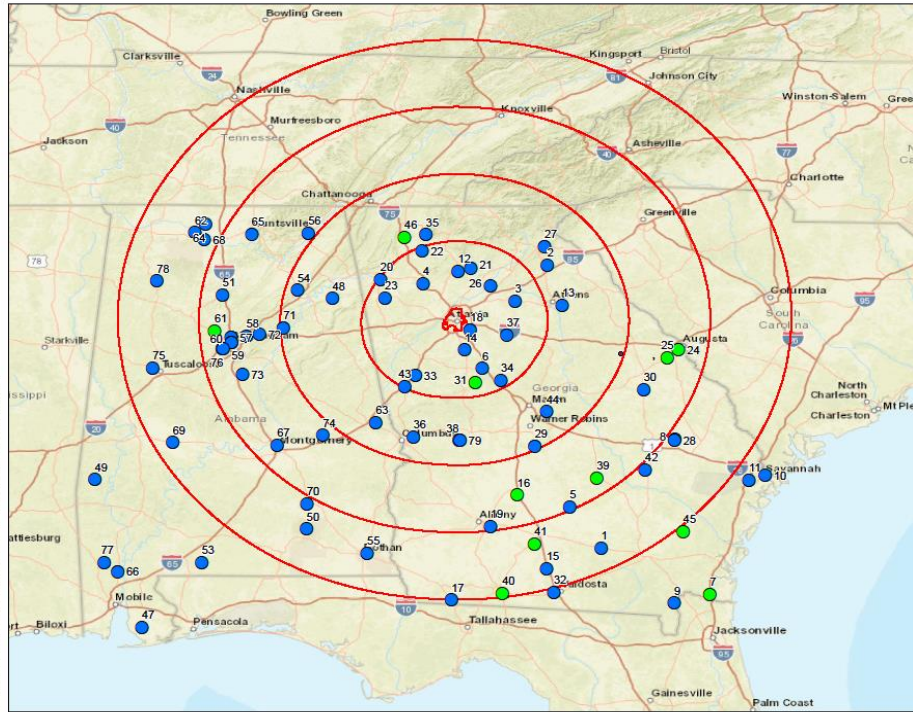


Figure No. 1
Site Location Map
Emergency Landfill Procurement

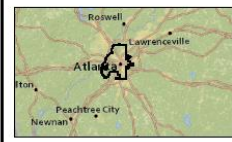
0 15 30 60 90 120 150 Miles

(At original document size of 11x17)
13,500,000

N

Legend

- Requesting Emergency Landfill Procurement
- Having No Interest in Emergency Landfill Procurement
- 50 Mile Radius



- (79) permitted landfills contacted within 50-mile radius of City of Atlanta
- (11) GA permitted landfills interested in providing services
- (1) AL permitted landfill interested in providing services



Disclaimer: This document has been prepared based on information provided by others as shown in the below section. Stantec has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result. Stantec assumes no responsibility for data supplied in electronic format, and the recipient accepts full responsibility for verifying the accuracy and completeness of the data.

Capital Improvement Plan Updates





Capital Improvement Plan Program Summary



\$50.2 M
Water
Facilities
Projects: 4



\$90.5 M
Water
Distribution
Projects: 6



\$332.9 M
Wastewater
Facilities
Projects: 28



\$124.9 M
Wastewater
Collection
Projects: 13



\$347.7 M
Water Supply
Program
Projects: 5



\$30.2 M
Green
Infrastructure
Projects: 5



\$45.6 M
Upper
Proctor Creek
Projects: 3



\$64.1 M
Watershed
Protection
Projects: 4

5-YR Total: \$1.25B; 78 Projects (10 Planning, 12 Design, 6 Procurement, 24 Construction, 13 Complete, 5 Inactive, 8 On-Hold)

\$164.8 M in GENERAL Capital Improvements (10 Projects)



Current Project Highlights



RM Clayton Nutrient Recovery Project

Authorized Budget (Projects): \$11.6 M

NTP: May 9, 2018

Substantial Completion: August 30, 2019

Updates:

- Building is almost enclosed. Electricians working in the building
- Ostara dryer has been installed
- Centrate Storage Tank had lid demolished
- Chemical tank area is now complete
- Power will soon be connected to the building gear
- Communications lines will soon be brought into the administration building





Current Project Highlights

FC8047A-1 NORESKO GESPC Project

Authorized Budget (Projects): \$77.9 M

NTP: December 28, 2017

Substantial Completion: November 28, 2020

Updates:

- RMC WRC Dryer Building structural steel complete. Roof panels being installed
- Cooling tower foundation being poured
- Boilers installed
- Suez factory acceptance testing of dryer ongoing
- RMC WRC UV Channel 1 Demolition completed





Current Project Highlights



FC8047A-2 SCHNEIDER GESPC Project

Authorized Budget (Projects): \$36.2 M

NTP: May 9, 2018

Substantial Completion: December 31, 2019

Updates:

- Digester Cleaning Completed. Preparing to install bubble mixing system
- Chattahoochee WTP chemical improvements design at sufficient level to begin implementation
- Utoy and South River WRC lighting improvements being installed
- Demolition of one SR WRC thickening centrifuge completed





Current Project Highlights



MOST Funded Stormwater Program FC-10244 Contracts A & B (Stormwater Asset Management Program)

Total Approved Budget: \$19M

Cleaning: Authorized 65 Work Orders (\$9.4M) to clean structures & pipes and provide CCTV Condition Assessments; spent \$4.2M on 50 completed

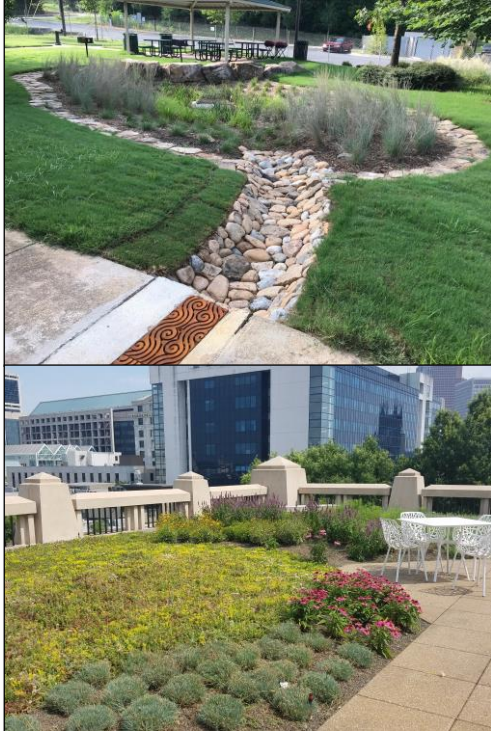
Restoration: Authorized 6 Work Orders (\$1.6M) to repair storm sewers; spent \$121K on 2 completed

Council Districts: Citywide, averaging 6 projects per District (71 projects total authorized)

Totals To Date: 1,826 structures and 114,718 linear feet of cleaning and assessment; **22 miles**



Green Infrastructure Project Updates



- **Environmental Impact Bond (EIB)**
 - Six GI projects in design phase
 - Proctor Creek Watershed
- **GI Design Challenge**
 - Six design projects currently in DOP review
- **Partnering with Parks**
 - Morgan Boulevard bioretention under construction
 - Multiple MOST-funded projects integrating GI solutions
- **GI in the Right of Way**
 - Hemlock Triangle pre-construction meeting – July 2019



Current Project Highlights – Atlanta Memorial Park

Peachtree Creek Trunk Sewer Stabilization

Cost: \$36.9M **Economic Impact:** 571 jobs

Highlights: Cleaning and trenchless rehabilitation of approx. 11,000 LF 90" diameter 80 year old sewers to reduce inflow and infiltration, safeguard against future breaches, and ensure long-term structural integrity of sewer

Project Start: May 2018

Project Substantial Completion: August 2019

Project Final Completion: September 2019

Updates:

- 3,931 Tons of debris has been removed
- 13,748 LF of cleaning has been completed
- 9,871 LF of PVC Profile Liner material has been installed and grouted





Current Project Highlights



Water Supply Program

Authorized Budget: \$348M

Economic Impact: 5,742 jobs

Highlights: Securing Atlanta's water future. Increasing water supply from 3 days to 30 days. Protecting \$250M in daily economic activity.

Updates

Quarry & Hemphill Pump Stations (PS) – Substantial completion by August 31, 2019
Conveyance tunnel: concrete lining is 70% complete.



2 Raised Bore flow shafts at Quarry – Concrete liner is completed.
90 MGD Chattahoochee PS – Bid opening was on June 7, 2019.

Key Milestones

Conveyance tunnel concrete lining.
- Completion by October 31, 2019

90 MGD Chattahoochee PS
- Contract award by October 1, 2019



Current Project Highlights



Upper Proctor Creek Capacity Relief: Rodney Cook, Sr. Park in Historic Vine City

Cost: \$26M

Economic Impact: 341 jobs

Highlights: The Upper Proctor Creek Capacity Relief Project: Rodney Cook, Sr. Park in Historic Vine City is a collection of innovative stormwater practices designed to redirect surface runoff away from the combined sewer system. This project is a multi-phase effort to reduce flooding and combined sewer flows in the surrounding area. The components of this project will be a wet pond, green infrastructure (bioretention, stormwater planters, rainwater harvesting cisterns, and soil restoration), aerating water features, separated storm drain pipelines, new sidewalks and roadway improvement.

Updates:

- Construction of the 9 million gallon capacity relief pond continues
- Stormwater infrastructure installation nearing completion
- Completed connection to Georgia World Congress Center parking lot across Maple Street
- Pond and fountain retaining walls currently being constructed
- Rainwater harvesting cistern installed and tested
- Work on Elm Street and Thurmond Street continue, expected completion in August
- Installation of bridge super structure in progress; Green Infrastructure stormwater planters, bioretention, great lawn installation to begin in August

Project Completion: 1st Quarter 2020





Current Project Highlights



Clear Creek West Sewer Improvements

Authorized Budget (Projects): \$18.8M

- **Highlights:** Project involves design & construction of an underground concrete vault having a capacity of 4 million gallons along with all ancillary systems and components at the Atlanta Civic Center.
- **Updates:**
 - Backfill operations have been completed
 - Utility instrumentation and control work is completed
 - Support of excavation has been removed, clean up, asphalt restoration/repair work and patching, and grassing is complete
 - Asphalt has been restored to its pre-existing condition
 - Tree recompense is complete and approximately, 144 trees have been planted
 - Execution of Encroachment Agreement between Atlanta Housing and DWM is forthcoming
- **Final Completion: May 23, 2019**



Current Project Highlights



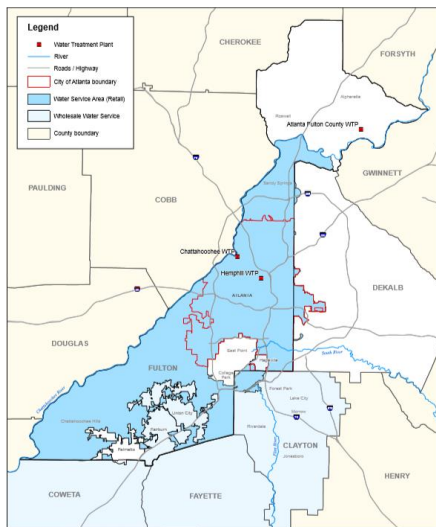
Hartsfield-Jackson Manifold Improvements

Authorized Budget (Projects): \$5.4M

- **Highlights:** This project rehabilitates the existing water distribution yard piping system at the Hartsfield-Atlanta International Airport's pumping station and located on South Loop Road.
- **Updates:**
 - All backfill operations have been completed.
 - All pumps have been successfully tied into the manifold system.
 - Storefront replacement, gate/fence, site restoration and grassing is complete.
 - Execution of Change Order #1 to authorize the work associated with adding the VFD for Pump #4.
 - Replacement of the 16" check valve DV27 north of the site will occur after the VFD is installed.
- **Final Completion Achieved (Original Scope of Work): July 5, 2019**



Current Project Highlights



Water System Master Plan Update: FC-7383C T.O. 59

Cost: \$564,182

NTP: March 18, 2019

Completion: December 31, 2019

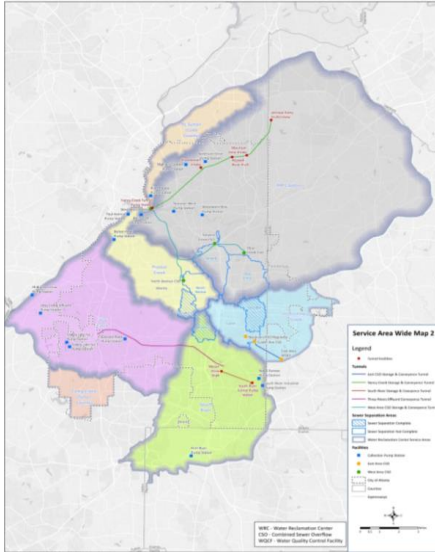
Highlights: The purpose of the WMP Update is to provide an assessment of the DWM's water distribution system, to identify current system deficiencies, determine future water supply requirements and recommend improvements for future system needs through year 2070. The Metropolitan North Georgia Water Planning District (MNGWPD) outlines basic requirements and guidelines for utilities to prepare Water and Wastewater Master Plans needed to generate an Integrated Water Plan (IWP). The IWP is in support of the objectives identified in the DWM Strategic Plan 2022: One Water Vision.

Updates:

- Developing recommendation for short term improvements
- Coordinating external stakeholder meeting tentatively scheduled for mid-August
- Next milestone is the development of the Capital Improvement Program to be completed by 9/10



Current Project Highlights



Wastewater Master Plan Update FC-7383C T.O. 60

Cost: \$598,630

NTP: March 18, 2019

Completion: December 31, 2019

Highlights: The purpose of the WMP Update is to provide an assessment of the DWM's wastewater system, to identify current system deficiencies, comply with regulatory requirements and recommend improvements for future system needs through year 2070. The Metropolitan North Georgia Water Planning District (MNGWPD) outlines basic requirements and guidelines for utilities to prepare Water and Wastewater Master Plans needed to generate an Integrated Water Plan (IWP). The IWP is in support of the objectives identified in the DWM Strategic Plan 2022: One Water Vision.

Updates:

- Developing facilities, collection system evaluation
- Coordinating external stakeholder meeting tentatively scheduled for mid-August
- Next milestone is the development of the Capital Improvement Program to be completed by 9/10