

Board of Commissioners Consent Decree Information Sheet

Commissioner District 5 – Mereda Davis Johnson

Report Date January 2025

Collection System Overview

District 5 contains more than 480 miles of sanitary sewer gravity mains and about 14,300 manholes. Most flows from District 5 are treated by the Snapfinger and Pole Bridge Plants, with a portion of the flow treated by Gwinnett County. The County has completed assessment of the Priority Areas with the District and have identified about 57,000 LF as requiring rehabilitation while the remaining sewer mains within the Priority Areas will undergo upkeep in Maintenance Management System program. Assessment and maintenance of the sewers outside of the Priority Areas are ongoing.

Assessment Progress

Methodologies for assessment include smoke testing, in which non-toxic smoke is injected into the system to identify areas of potential I&I in the system; acoustic testing, which utilizes sound waves to detect breakages and voids; CCTV inspection, which provides a visual inspection of sewer lines; and, TISCIT which uses sonar to identify defects in large interceptor lines.

		Assessments Completed by Type	
		Inspection Type	Total Length (LF) / Manhole Count
Total Assessments Progress			
Assessment Area	Total Length (LF)		
Priority Areas	821,679	Priority Areas	821,679
Complete	821,679	Acoustic Inspection	340,903
Other Areas	3,548,880	CCTV Inspection	69,795
Complete	3,487,775	Manhole Condition Assessment	2,064
To Be Completed	61,105	Sewer Cleaning	9,616
Grand Total	4,370,559	Smoke Test	364,777
		Sonar/TISCIT	34,523
		Other Areas	3,548,880
		Acoustic Inspection	1,336,327
		CCTV Inspection	575,686
		CCTV Inspection with rehab	7,999
		Manhole Condition Assessment	5,346
		Sewer Cleaning	52,795
		Smoke Test	1,263,347
		Sonar/TISCIT	307,380
		Grand Total	4,370,559

Preventative Maintenance

Preventative maintenance includes preventing the intrusion of roots, cleaning of lines, and ensuring access through easement clearing allow DWM to ensure the integrity of the system. Information reported is for Q1 & Q2 of 2024 only.

Countywide Q1/2-2024		Total	CD 5 - Q1/2-2024		Total
Easement Clearing (SqFt)	2,152,938		Easement Clearing (SqFt)	0	
Cleaning (LF)	535,640		Cleaning (LF)	76,622	
Root Control (LF)	769,187		Root Control (LF)	205,171	
Grand Total	3,457,765		Grand Total	281,793	

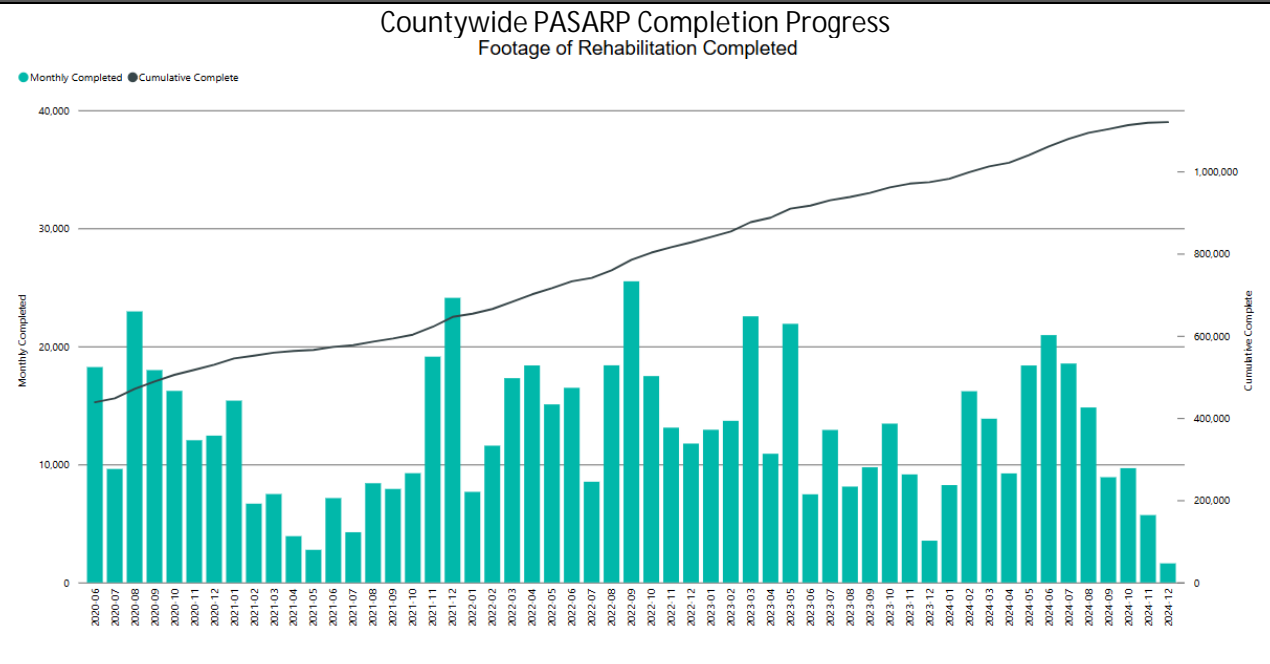
Priority Area Rehabilitation Progress

Priority Areas Progress		Rehabilitation Completed by Type	
	Total Length (LF)	Rehabilitation Method	Total Length (LF)
Contracted	98,326	Abandoned	2,816
Completed	85,864	Lining	72,822
In Progress	12,462	Point Repair & Lining	151
Not Contracted	1,970	Replacement	8,857
In Progress	1,970	Assessment	1,218
Grand Total	100,296	Grand Total	85,864

Lift Stations & Force Mains

Sewer lift stations pump untreated wastewater via a force main from lower lying areas to areas that will allow for gravity flow of the wastewater to a treatment facility. District 5 has 33 lift stations and 97,500 LF of force main to ensure the proper collection of wastewater. All scheduled lift station rehabilitation in District 5 was completed by the end of 2019; routine maintenance is ongoing.

Overall PASARP Progress



Board of Commissioners Water System Information Sheet

Commissioner District 5 – Mereda Davis Johnson

Report Date January 2025

Distribution System Overview

District 5 contains more than 655 miles of small diameter (less than 16”) water mains and more than 66 miles of large diameter (greater than 16”) water mains. The system in District 5 contains more than 5,900 fire hydrants to support fire protection efforts. There are 3 water tanks in District 5, two on Redan Road, and on Parkway Road. The tanks help to manage water pressure during periods of peak demand.

Small Diameter System Details

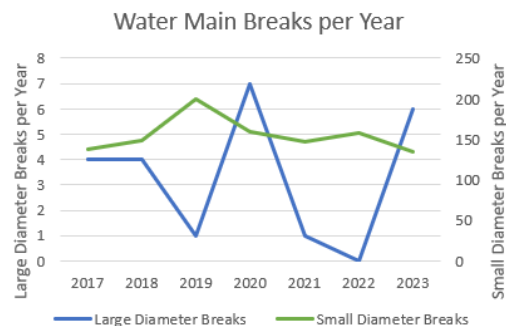
Pipe Construction	Feet	Miles
Asbestos Cement	302,679	57.3
Cast Iron	897,651	170.0
Copper	303,269	57.4
Ductile Iron	1,627,400	308.2
Galvanized	32,619	6.2
PVC	298,967	56.6
Other / Unknown	78,735	14.9
Total Feet	3,462,586	655.8

Large Diameter System Details

Pipe Construction	Feet	Miles
Cast Iron	39,754	7.5
Carbon Steel	33,404	6.3
Ductile Iron	280,225	53.1
Prestressed Concrete Cylinder Pipe	0	0.0
Other / Unknown	0	0.0
Total Feet	353,384	66.9

Water Main Breaks Since 2017

District 5 Breaks since 2017	
Large Diameter	21
Small Diameter	1,151



Key Upcoming Projects	
Project Name	Benefit
Thompson Mill Rd Water Main Replacement	Replacement of deteriorated cast iron and asbestos cement water mains
Panola Rd Water Main Replacement	Replacement of deteriorated cast iron and asbestos cement water mains
Huntsmen Bend Water Main Replacement	Replacement of deteriorated cast iron and asbestos cement water mains