



Public Utilities

water. wastewater. conservation.

2020 Service Delivery Plan Update Infrastructure Element Capital Improvement Element

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Athens-Clarke County Public Utilities Department



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Project Fact Sheets

Acronyms and Abbreviations

7Q10	the lowest average discharge during 7 consecutive days, occurring once every 10 years on average as determined by USGS
AADD	average annual daily demand
ACC	Athens-Clarke County
ACCGov	Unified Government of Athens-Clarke County
BOD ₅	5-day biological oxygen demand
cfs	cubic feet per second
CC	Cedar Creek
CH2M	CH2M HILL Engineers, Inc.
DEP	district energy plants
DIP	ductile iron pipe
d/D	ratio of peak flow depth during design storm event divided by diameter of the pipe
DWF	dry-weather flow
EBPR	enhanced biological phosphorus removal
GAEPD	Georgia Department of Natural Resources, Environmental Protection Division
GDOT	Georgia Department of Transportation
GIS	geographic information system
gpd	gallons per day
GWI	groundwater infiltration
Jacobs	Jacobs Engineering Group Inc.
KPI	key performance indicator
LF	linear feet
LMO	Lower Middle Oconee
M&C	Mayor and Commission
MDD	maximum day demand
mg/L	milligrams per liter
MG	million gallons
MGD	million gallons per day
MMAD	maximum month average day
MN	McNutt
MO	Middle Oconee
MOU	Memorandum of Understanding
N/A	not applicable



NO	North Oconee
NPDES	National Pollutant Discharge Elimination System
NPR	non-potable reuse
O&M	operations and maintenance
PFAS	per- and polyfluoroalkyl substances
PUD	Public Utilities Department
RDII	rainfall-derived inflow and infiltration
SDP	Service Delivery Plan
SPLOST	special-purpose local-option sales tax
SSES	sanitary sewer evaluation survey
TCE	Trail Creek East
TCW	Trail Creek West
TP	total phosphorus
UGA	University of Georgia
UNO	Upper North Oconee
UV	ultraviolet
VFD	variable frequency drive
WRF	water reclamation facility
WTP	water treatment plant
WWF	wet-weather flow

Definitions

Collection system – A collection system is composed of gravity pipes, force mains, and lift stations that convey wastewater from residential and non-residential customers and convey the flow to the different water reclamation facilities.

Collector lines – Collector lines are a network of pipelines that are typically 6 to 8 inches in diameter that convey wastewater to and from trunk and interceptor lines. They typically connect the service lines into the wastewater collection system.

Distribution and transmission pipelines – Distribution and transmission pipelines convey drinking water to commercial, industrial and residential customers.

Effluent – Effluent refers to the treated wastewater that is discharged from the water reclamation facilities.

Force mains – Force mains are pipelines that convey wastewater under pressure and require pumping.

Gravity pipes – Gravity pipes are pipelines that convey wastewater via gravity and do not require pumping.

Potable water – Potable water is treated water for drinking purposes.

Pump stations - A pump station is designed to receive, store and pump the wastewater to its next destination.

Septic systems – Septic systems are privately owned and operated wastewater systems in the form of septic tanks by individual customers.

Service lines – Service lines in drinking water are pipelines that are part of the water distribution system that convey water from the distribution and transmission mains to the individual customers and fire protection systems. Service lines in wastewater collect wastewater from customers and convey them to collector lines. Service lines establish customer connections and are funded by the customers themselves.

Sub-basin – Basins and sub-basins are defined by the natural drainage of the land. This natural drainage divides ACC into 15 basins and 73 sub-basins.

Trunks and interceptors – Trunks and interceptors are gravity pipelines that collect wastewater from collector lines. Interceptors are typically 8 to 18 inches and are found along streams. Trunks range from 12 to 54 inches and are found along the rivers (Middle Oconee, North Oconee and Oconee).

Water distribution system or distribution system - A network of pipes such as distribution and transmission mains, and service lines to convey potable water from drinking water treatment plants to individual customers and fire protection systems.

