

Suwannee-Satilla Regional Water Planning Council Management Practices Subcommittee Materials

Overview of Regional Water and Wastewater Forecasts, Identification of Water and Wastewater Needs and Gaps, and Preliminary Management Practices to Address Regional Needs and Gaps between Forecasts and Available Resources

In February 2008 the Georgia General Assembly adopted the Georgia Comprehensive State-wide Water Plan (Plan) dated January 8, 2008. This Plan established the Regional Planning process that was officially kicked off in March 2009. The Suwannee-Satilla Regional Water Planning Council (RWPC) is one of the 11 planning regions established throughout the state. The Suwannee-Satilla RWPC is charged with several tasks including: 1) developing water and wastewater forecasts for the region through the year 2050; and 2) identification of management practices to help meet forecasted demands and address regional needs. The Suwannee-Satilla RWPC boundaries are shown in Figure 1.

This document summarizes preliminary work completed by the Suwannee-Satilla Regional Water Planning Council, and the Council's Management Practices Subcommittee. As part of the identification of regional priorities and needs the Suwannee-Satilla RWPC has adopted the following Vision for the region:

The vision of the Suwannee-Satilla Regional Council is to manage water resources in a sustainable manner under Georgia's regulated riparian and regulated reasonable use laws to support the state's and region's economy, to protect public health and natural resources, and to enhance the quality of life for all citizens; while preserving the private property rights of Georgia's landowners, and in consideration of the need to enhance resource augmentation and efficiency opportunities.

More information on the Suwannee-Satilla Regional Council and Goals adopted by the Council can be found at <http://www.suwanneesatilla.org/>

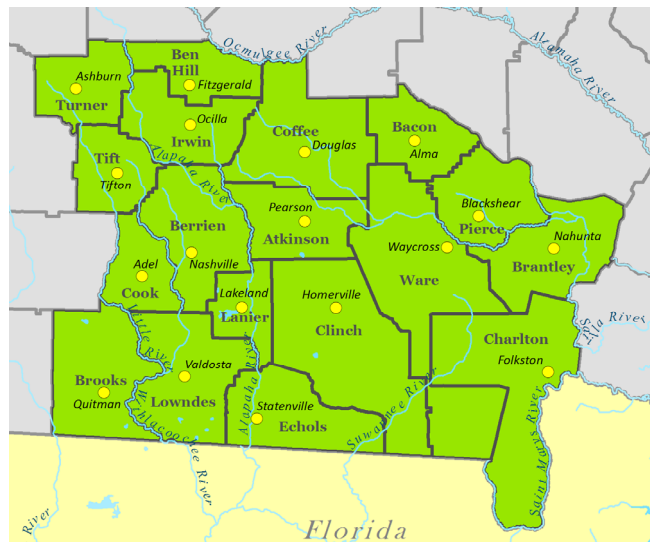


Figure 1 – Suwannee-Satilla RWPC Boundary

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Preliminary Findings for the Suwannee-Satilla Region

Groundwater Availability

Groundwater from the Upper Floridan Aquifer is a vital resource for the Suwannee-Satilla region. Groundwater is and will continue to be relied upon to meet about 80% of the water use in the region. Overall, the results from the Groundwater Resource Assessment indicate that there is sufficient groundwater supply to meet forecasted demands. However, localized issues could arise in areas where there is a high well density and/or high volumes of groundwater withdrawal.

Groundwater Gaps between Available Resource and Forecasted Needs

At this time there are **no anticipated groundwater gaps** expected over the 40 year planning horizon in the Region.

The 5 highest groundwater use areas are expected to occur in Lowndes, Tift, Brooks, Coffee, and Turner Counties.

Overview of Preliminary Management Practices to Address Groundwater Gaps

No anticipated groundwater gaps. **The following list provides a summary of potential management practices to meet future needs.**

- Continue to develop groundwater from the Upper Floridan aquifer.
- Water Conservation
- Others?

Action Item - Council needs to identify addition practices and/or modify this list.

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Preliminary Findings for the Suwannee-Satilla Region

Surface Water Availability

Surface water is an important resource used to meet current and future needs; especially for the agricultural demand sectors. Over the planning horizon the use of surface water for agricultural purposes is expected to increase by 9.5 Million Gallons/Day (MGD) from 55.22 to 64.75 MGD. As discussed later, this is a significant challenge for the region due to current surface water gaps during drier periods at several locations within the region.

There are several surface water planning nodes located in the Suwannee-Satilla region. These nodes and the basic conclusions of the current and future conditions modeling are summarized below:

- **Atkinson (Satilla River)** – surface water gaps under current and future conditions
- **Fargo (Suwannee-River)** – no significant surface water gaps under current and future conditions the estimated shortfall is < 1 cubic foot/second and under current conditions is estimated to have a 3% duration and under future conditions a 1% duration (need to verify this conclusion with EPD).
- **Gross (St. Mary’s River)** – no surface water gaps under current and future conditions.
- **Jennings (Alapaha River)** – surface water gaps under current and future conditions.
- **Pinetta (Withlacoochee River)** – surface water gaps under current and future conditions.
- **Statenville (Alapaha River)** - surface water gaps under current and future conditions.

Overview of Preliminary Management Practices to Address Surface Water Gap

Agricultural surface water use accounts for approximately 98 percent of all surface water use; 55 MGD in 2010 and 64 MGD in 2050 (values rounded). Irwin, Turner, Tift, Coffee, and Berrien counties are the 5 highest surface water agricultural use counties in the region.

Preliminary Potential Surface Water Gap Management Practices

Pinetta node – Potential gaps are related to surface water agricultural use; no other demand sectors use surface water above the Pinetta node. Gaps and management practices at this node should be coordinated with the Lower Flint-Ochlockonee Region as surface water demands in Worth, Colquitt, and Thomas Counties potentially affect this node.

Jennings node – Potential gaps are related to surface water agricultural use; no other demand sectors use surface water above the Jennings node.

Statenville node – Potential gaps are related to surface water agricultural use; no other demand sectors use surface water above the Statenville node.

Atkinson node – Potential gaps are related to surface water agricultural or industrial use; the primary use of surface water above the Atkinson node is agricultural but there is one industrial surface water user above this node as well. Gaps and management practices at this node should be coordinated with the Altamaha Region as surface water demands in Jeff Davis, Appling, and Wayne Counties potentially affect this node.

Fargo node – Potential gaps at this node are minimal (<1 cfs average shortfall) and may not require management practices.

Action Item – Need EPD direction on need to address Fargo Gap

Action Item – Need Council direction on closing Flow Regime Gaps

Observations of Management Practices subcommittee regarding surface water gaps – from July 28, 2010 subcommittee meeting:

Several conservation measures are currently being employed in the Agricultural community such as leak detection and repair, end gun shutoff, and conversions to low pressure systems. Continued education of farmers and continuation of available grant and loan programs will expand the use of these practices throughout the state.

Several members of the subcommittee recommend additional study to further evaluate the consumptive use estimate for Agricultural water use; the current estimate of 100% consumption may overestimate actual use and may be overestimating surface water gaps. They also mentioned the need for better data to understand the seasonal variation of agricultural water use and how storage ponds can be more accurately represented in the surface water model.

The subcommittee discussed the possibility that groundwater withdrawals from surficial aquifers could potentially impact surface water flows. Possible solutions might be to discourage shallow groundwater use in areas with surface water gaps or start an education campaign.

The subcommittee recognized that if farmers use increased groundwater to offset surface water uses, it could cause potential groundwater gaps.

The subcommittee discussed the following management practices within the context of the observations outlined above. The list includes some suggestions from the Altamaha and Coastal management practices subcommittees.

Data Improvement and Information Collection Practices

- Conduct additional improvements in agricultural water use measurement.
- Conduct additional improvements to better identify source of water supply associated with agricultural uses especially related to dual (surface water and groundwater) sources.
- Conduct additional research regarding agricultural consumptive use (currently assumed to be 100% consumptive).
- Conduct additional monitoring of gauge data in relationship to annual precipitation to verify timing of flow regime gaps and “triggers” to initiate management practices; is additional gauge installation needed to refine gap?

Action Item - Council needs to identify addition practices and/or modify this list.

Educational Practices

- Develop, encourage and educate irrigators - Develop more information regarding research and/or availability of crops that have less transpiration (i.e., DuPont, Monsanto).
- Universities of Georgia, Auburn, Clemson, and others are doing research on the most efficient means to irrigate and to identify when and how much water is needed to meet crop water requirements.
- Encourage UGA extension service to develop crops and other agricultural commodities that use less water.

- Educate shallow groundwater users on potential implications to surface water.

Action Item - Council needs to identify addition practices and/or modify this list.

Water Conservation Practices

- Encourage/promote additional agricultural conservation such as high efficiency nozzles for pivots, leak detection and repair, end gun shutoff, low-pressure conversions, or other conservation methods.

Action Item - Council needs to identify more specific measure here:

Water Supply Practices

- Consider strategies and incentives to replace the estimated future increase in surface water use with groundwater use.
- Replace a portion of current surface water withdrawals with groundwater withdrawals in drier years.
- Surface water storage (smaller offshore) to supplement the river during low flow conditions.
- Develop/design well fields to pump groundwater to stream to address critical low flow periods.

Action Item - Council needs to identify addition practices and/or modify this list.

Surface water return flow practices

- Direct discharges in lieu of LAS to critical sections of surface waters to improve streamflow. Anti-degradation and surface water discharge requirements may make this costly and difficult to implement.

Institutional and Ordinance Practices

If we solve the problem by putting water back into the river, do we want to protect that from future withdrawals?

Action Item - Council needs to identify addition practices and/or modify this list.

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Preliminary Findings for the Suwannee-Satilla Region

Surface Water Quality

Assimilative Capacity Modeling – This modeling tool assesses the amount of dissolved oxygen that is available to assimilate wastewater. There are a number of segments in the Suwannee-Satilla Region where there is limited and no dissolved oxygen. The graphics at the end of this section show areas with no available dissolved oxygen during certain times of the year including the following rivers: Alapaha and lower portion of Hat Creek (NP); Tatum Creek, Woodyard Creek, (Cane?); Little Hurricane, Hurricane and Alabaha, Satilla near Buffalo Creek, Little Satilla, Spanish Creek and St. Mary’s River.

Current Water Quality Impairments - There are a number of current water quality impairments in the Suwannee-Satilla region. The majority of water quality impairments are due to: low dissolved oxygen, fecal coliform bacteria, and there are a few segments impaired for trophic-weighted residual value for mercury in fish tissue, pH, fish consumption, and macroinvertebrate consumption. The Suwannee-Satilla RWPC is currently prioritizing current impairments and the implementation status for the Total Maximum Daily Load (TMDL) Implementation Plans in the region (a list of the initial prioritized segments is provided at the end of this document).

Satilla River Watershed Models – Over the next several years it is likely that nutrient standards will be developed for Nitrogen and Phosphorous. In anticipation of these standards it may be prudent for the water planning councils to consider best management practices (BMPs) that can be used to address/reduce nutrient loading in this watershed. Although there are no current standards, indentifying possible load reducing strategies may be a good first step in preparation for future standard setting. The Altamaha and Coastal Georgia RWPC regions also contribute run-off to the Satilla River Watershed.

Permitted Wastewater Capacity – See individual county capacities and gaps.

Overview of Preliminary Management Practices to Address Water Quality

Preliminary potential surface water quality management practices

Point Sources and Non-Point Sources and for the Satilla Watershed Nutrient (phosphorus and nitrogen) Model

- Support Georgia Forestry Commission BMP Program.
- Identify - Agricultural, Forestry, Urban BMPs
- Advanced/Improved point source treatment
- Groundwater return flow management
- Stormwater detention/return management
- Identify potential location where improved data collection/assumptions on discharges are needed
- Identify areas with naturally low dissolved oxygen
- Identify if current fecal coliform issues are a significant health/environmental issue based on sources and designated uses

Action Item - Council needs to identify addition practices and/or modify this list.

Water and Wastewater Overview - Suwannee-Satilla RWPC

County-level water and wastewater forecasts have been developed at 10-year increments beginning in 2010 and extending to 2050 for the 18 counties within the region. The major water and wastewater sectors include: municipal (domestic and commercial), industrial and agricultural. Thermoelectric energy needs are also being forecasted on a statewide basis.

Figures 2 and 3 show the aggregated county water forecasts for the Suwannee-Satilla region in 2010 and 2050. Overall, the regional forecasted water need is expected to increase by approximately 62 million gallons per day (MGD).

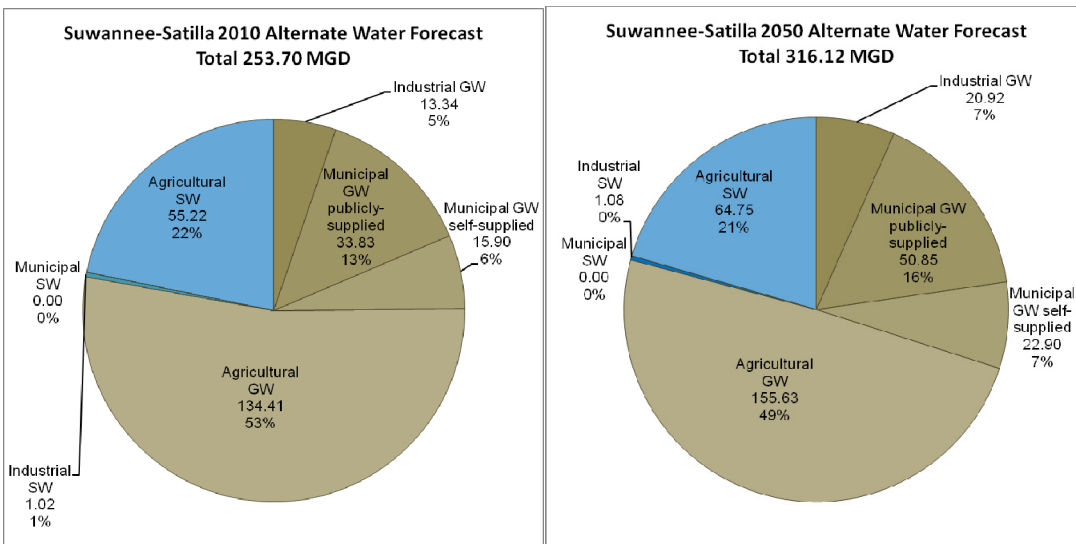


Figure 2 – Suwannee-Satilla Alternate 2010 Total Water Forecast

Figure 3 – Suwannee-Satilla Alternate 2050 Total Water Forecast

Figures 4 and 5 show the aggregated county wastewater forecasts for the Suwannee-Satilla region in 2010 and 2050. Overall, the regional forecasted wastewater flows are expected to increase by approximately 27 million gallons per day (MGD).

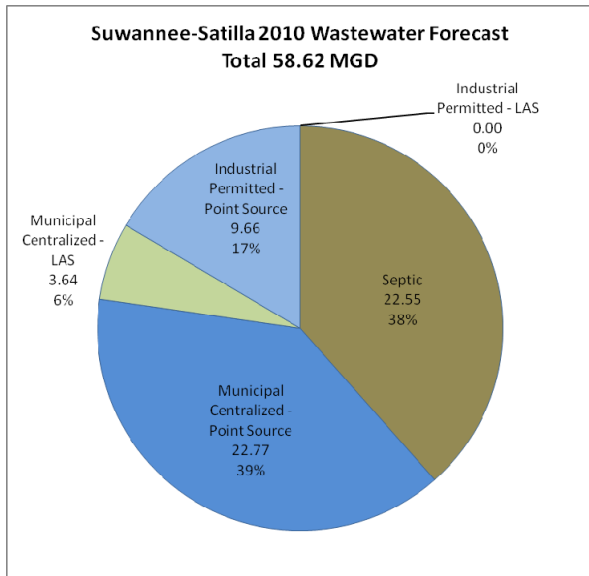


Figure 4 – Suwannee-Satilla Alternate 2010 Total Wastewater Forecast

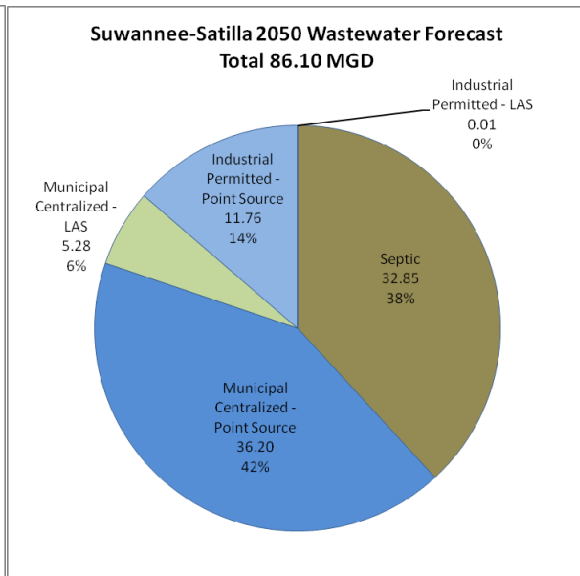


Figure 5 – Suwannee-Satilla Alternate 2050 Total Water Forecast

Summary of Atkinson Node (CFS)

Scenario	Length of Shortfall (% of time)	Average Shortfall (cfs)	Long-term Average Flow (cfs)	Maximum Shortfall (cfs)	Corresponding Flow Regime (cfs)
Current Demand	11%	26	2257	63	73
2050 Forecasted Demand	7%	29	2269	54	70

Summary of Fargo Node (CFS)

Scenario	Length of Shortfall (% of time)	Average Shortfall (cfs)	Long-term Average Flow (cfs)	Maximum Shortfall (cfs)	Corresponding Flow Regime (cfs)
Current Demand	3%	0.3	959	1	1
2050 Forecasted Demand	1%	0.4	959	1	9

Summary of Gross Node (CFS)

Scenario	Length of Shortfall (% of time)	Average Shortfall (cfs)	Long-term Average Flow (cfs)	Maximum Shortfall (cfs)	Corresponding Flow Regime (cfs)
Current Demand	0%	0	1240	0	N/A
2050 Forecasted Demand	0%	0	1240	0	N/A

Summary of Jennings Node (CFS)

Scenario	Length of Shortfall (% of time)	Average Shortfall (cfs)	Long-term Average Flow (cfs)	Maximum Shortfall (cfs)	Corresponding Flow Regime (cfs)
Current Demand	14%	34	1387	97	120
2050 Forecasted Demand	14%	40	1387	128	141

Summary of Pinetta Node (CFS)

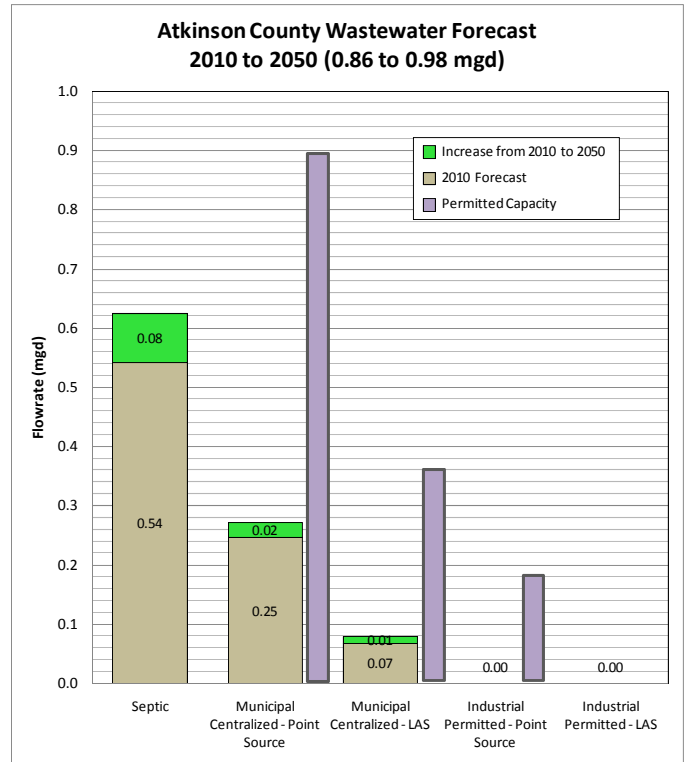
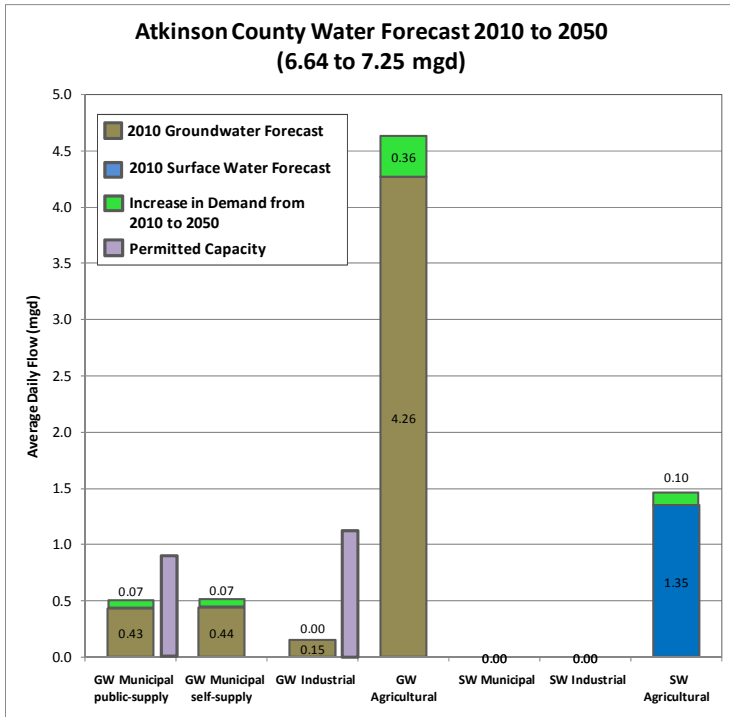
Scenario	Length of Shortfall (% of time)	Average Shortfall (cfs)	Long-term Average Flow (cfs)	Maximum Shortfall (cfs)	Corresponding Flow Regime (cfs)
Current Demand	11%	43	1714	100	132
2050 Forecasted Demand	12%	67	1703	136	155

Summary of Statenville Node (CFS)

Scenario	Length of Shortfall (% of time)	Average Shortfall (cfs)	Long-term Average Flow (cfs)	Maximum Shortfall (cfs)	Corresponding Flow Regime (cfs)
Current Demand	20%	31	1060	92	95
2050 Forecasted Demand	19%	44	1054	82	84

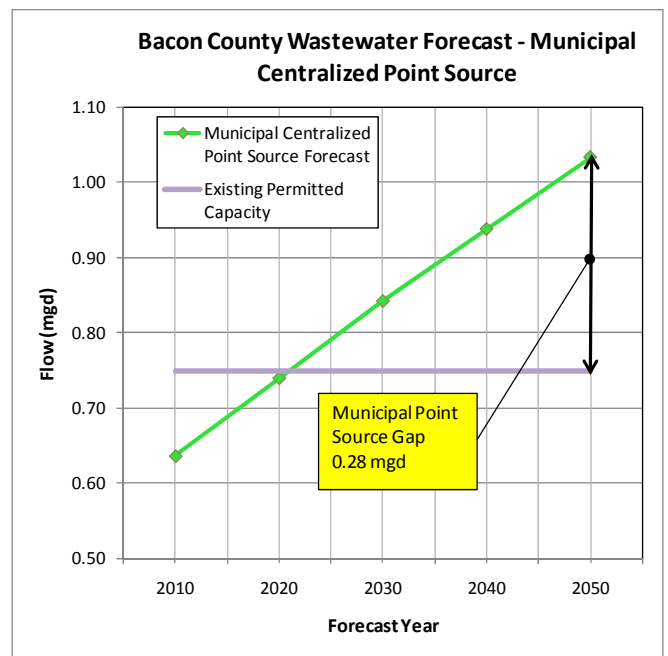
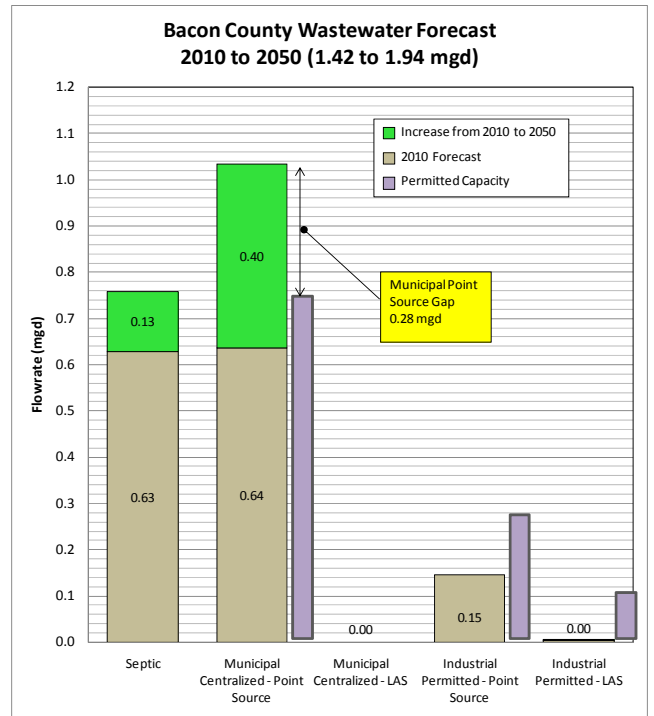
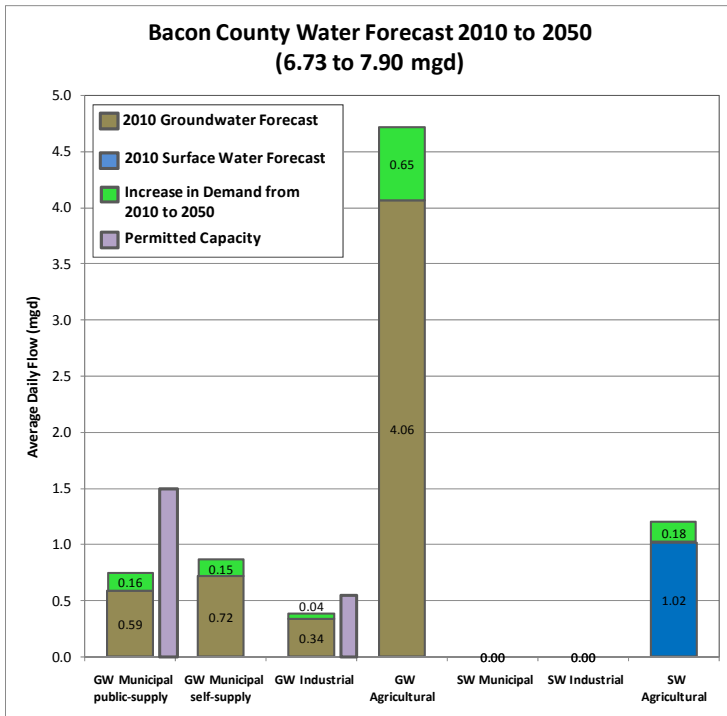
Atkinson County

The following Figures show the increased water need by source and demand sector; the wastewater forecasts for the county in relation to permitted capacity; and a time series showing the growth in wastewater need in relationship to permitted capacity.



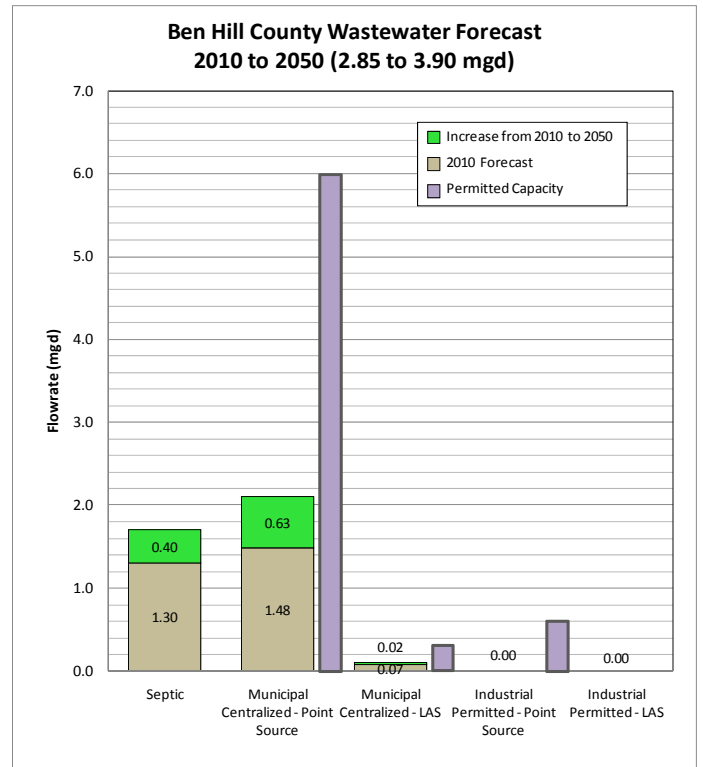
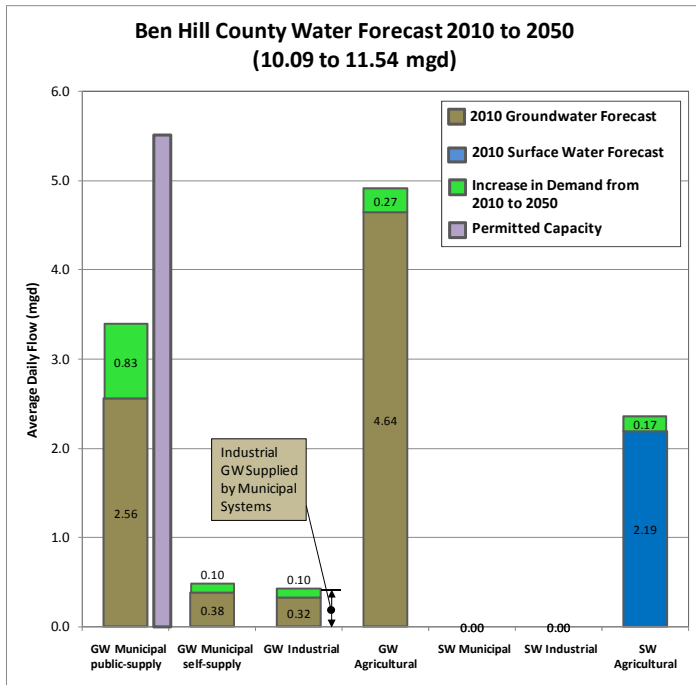
County	Demand Sector	WATER SUPPLY					WASTEWATER			WATER QUALITY		
		2010 Forecast Water Demand (MGD)	Increase in SW Demand from 2010 to 2050/Associated Planning Node	Permitted SW Withdrawal Capacity	Increase in GW Demand from 2010 to 2050	Permitted GW Withdrawal Capacity	2010 Forecast Wastewater Demand (MGD)	Increase in Wastewater Flows from 2010 to 2050	Permitted Wastewater Capacity (MGD)	Assimilative Capacity Limitations (DO)	Current Water Quality Impairments	TMDL Implementation Status
Atkinson	Municipal	0.87	0.00/Atkinson & Statenville	N/A	0.14 (0.07 Public; 0.07 Self)	0.90	Septic 0.54 Centralized 0.32	Septic 0.08 Centralized 0.03	Centralized 1.26			
	Industrial	0.15	0.00/Atkinson & Statenville	N/A	0.00	1.12	0.00	0.00	0.18			
	Agricultural	5.93	0.10/Atkinson & Statenville		0.36							
	Total	6.95	0.10/Atkinson & Statenville		0.50	2.02	0.86	0.11	1.44			
	Gaps		Yes, 2010 Ag SW use of 1.35 MGD at Atkinson & Statenville; Additional 0.10 MGD of 2050 Ag SW use at Atkinson & Statenville			None			None	None under baseline conditions.	Impairments on Satilla River for FC; 5 other segments for DO, FC, or TWR; Assessment Pending on 1 segments; See Appendix A	TMDLs complete for 4 of 6 segments; impairment cause is NP
	Future Needs		0.10 MGD of additional Ag SW development		0.50 MGD of additional GW development			0.11 MGD of additional WW capacity development		None under permit capacity conditions		
	Preliminary Management Practices		1) Replacement of SW Ag demands with GW during dry years; 2) Ag conservation; 3) Regional surface storage in Satilla River Basin; 4) Small-scale storage in individual Ag ponds 5) Aquifer storage and recovery (ASR)		Permitted Capacity			Permitted Capacity		None	1) Cite TMDL implementation status for DO, FC, and TWR; 2) Further develop specific MPs based on TMDL implementation plan recommendations 3) Resolve naturally low DO	
Council or Additional Coordination - Shared Resource		Altamaha - Satilla River Basin, Atkinson Node								None - impairments originate and terminate in Suwannee-Satilla Region		

Bacon County



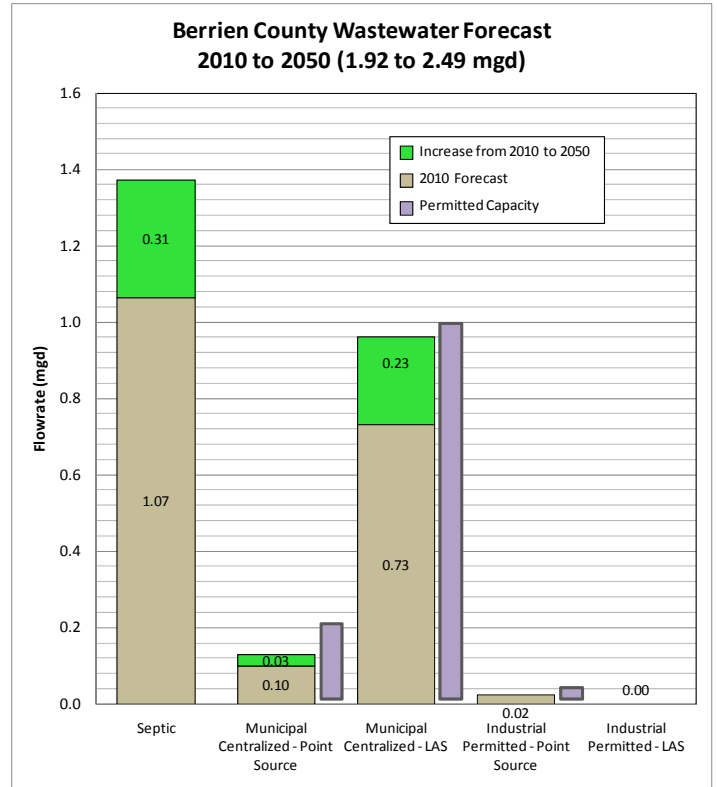
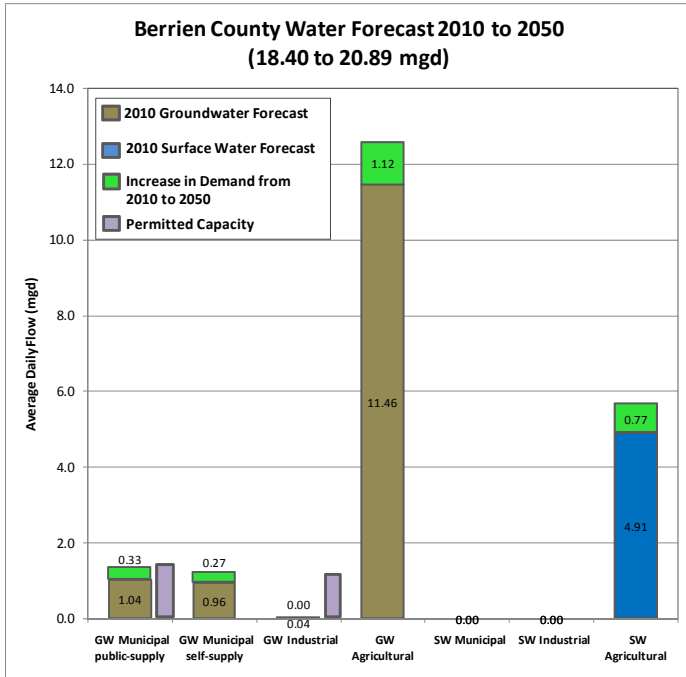
County	Demand Sector	WATER SUPPLY					WASTEWATER			WATER QUALITY		
		2010 Forecast Water Demand (MGD)	Increase in SW Demand from 2010 to 2050/Associated Planning Node	Permitted SW Withdrawal Capacity	Increase in GW Demand from 2010 to 2050	Permitted GW Withdrawal Capacity	2010 Forecast Wastewater Demand (MGD)	Increase in Wastewater Flows from 2010 to 2050	Permitted Wastewater Capacity (MGD)	Assimilative Capacity Limitations (DO)	Current Water Quality Impairments	TMDL Implementation Status
Bacon	Municipal	1.31	0.00/Atkinson	N/A	0.31 (0.16 Public; 0.15 Self)	1.50	Septic 0.63 Centralized 0.64	Septic 0.13 Centralized 0.40	Centralized 0.75			
	Industrial	0.34	0.00/Atkinson	N/A	0.04	0.62	0.15	0.00	0.37			
	Agricultural	5.39	0.18/Atkinson		0.65							
	Total	7.04	0.18/Atkinson		1.00	2.12	1.42	0.53	1.12			
	Gaps		Yes, 2010 Ag SW use of 1.02 MGD at Atkinson; Additional 0.18 MGD of 2050 Ag SW use at Atkinson			None			Municipal Centralized Gap occurs between 2020 and 2030; Gap at 2050 is 0.28 MGD	Assimilative Capacity exceeded in some segments of Little Hurricane Creek under baseline conditions; confirmed by 303(d) list	Impairments on Little Hurricane Creek for DO; 3 other segments for DO or FC; Assessment Pending on 3 segments; See Appendix A	TMDLs complete for Little Hurricane Creek and one more segment; impairment cause is NP
	Future Needs		0.18 MGD of additional Ag SW development		1.00 MGD of additional GW development			0.53 MGD of additional WW capacity development		Assimilative Capacity exceeded on Hurricane and Little Hurricane Creeks under permit capacity conditions		
	Preliminary Management Practices		1) Replacement of SW Ag demands with GW during dry years; 2) Ag conservation; 3) Regional surface storage in Satilla River Basin; 4) Small-scale storage in individual Ag ponds 5) Aquifer storage and recovery (ASR)		Permitted Capacity			1) Permitted Capacity; 2) Planned Projects	Planned Project - Alma WPCP expansion from 0.75 to 2 MGD	Identify potential Point Sources; Identify Non-Point Source BMPs targeting landuse upstream of impairment	1) Cite TMDL implementation status for DO, and FC; 2) Further develop specific MPs based on TMDL implementation plan recommendations 3) Resolve naturally low DO	
	Council or Additional Coordination - Shared Resource		Altamaha - Satilla River Basin, Atkinson Node								Altamaha & Coastal Georgia - Satilla River	

Ben Hill County



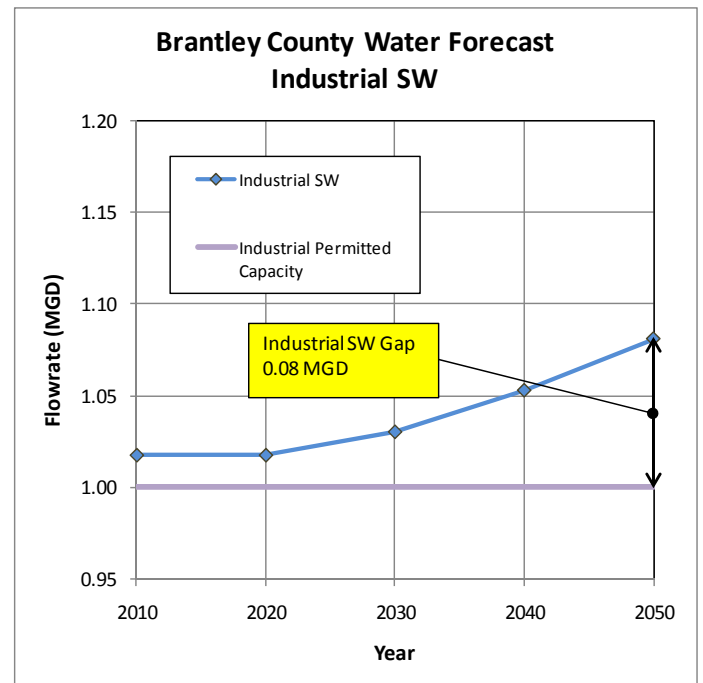
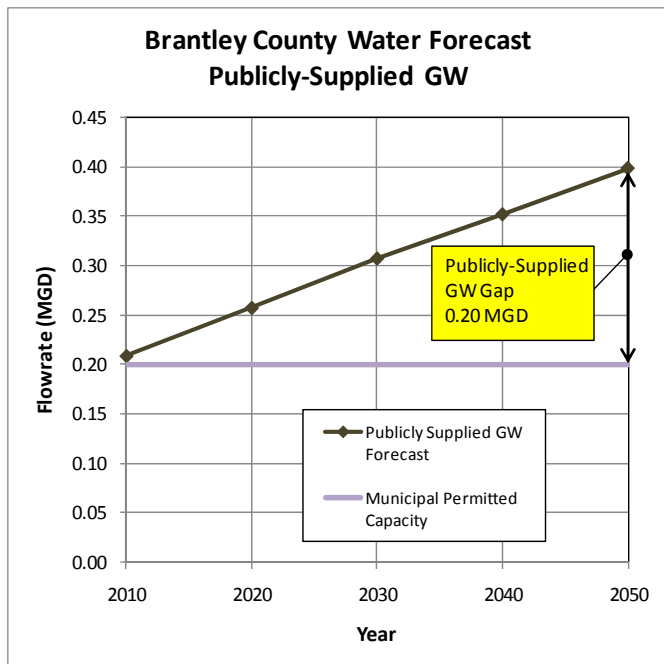
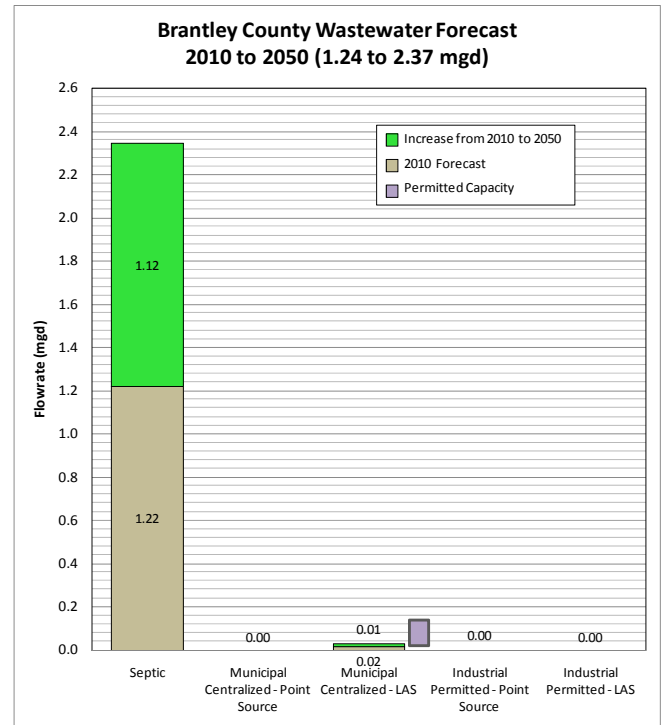
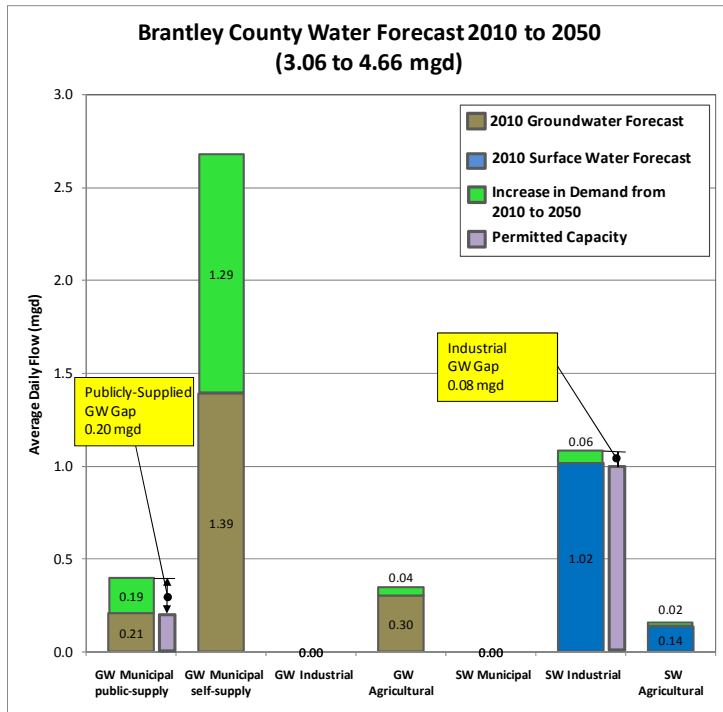
County	Demand Sector	WATER SUPPLY					WASTEWATER			WATER QUALITY		
		2010 Forecast Water Demand (MGD)	Increase in SW Demand from 2010 to 2050/Associated Planning Node	Permitted SW Withdrawal Capacity	Increase in GW Demand from 2010 to 2050	Permitted GW Withdrawal Capacity	2010 Forecast Wastewater Demand (MGD)	Increase in Wastewater Flows from 2010 to 2050	Permitted Wastewater Capacity (MGD)	Assimilative Capacity Limitations (DO)	Current Water Quality Impairments	TMDL Implementation Status
Ben Hill	Municipal	2.94	0.00/Lumber City & Statenville	N/A	0.93 (0.83 Public; 0.10 Self)	5.50	Septic 1.30 Centralized 1.55	Septic 0.40 Centralized 0.65	Centralized 6.30			
	Industrial	0.32	0.00/Lumber City & Statenville	N/A	0.10	0.00	0.00	0.00	0.50			
	Agricultural	6.92	0.17/Lumber City & Statenville		0.27							
	Total	10.18	0.17/Lumber City & Statenville		1.29	5.50	2.85	1.05	6.80			
	Gaps		Yes, 2010 Ag SW use of 2.19 MGD, some of which is at Atkinson; Additional 0.17 MGD of 2050 Ag SW use, some of which is at Atkinson			No Municipal Gap; Checking to see if industrial demand is supplied by municipal			None	None under baseline conditions	Impairments on 5 segments for DO, Bio F, pH, or FC; Assessment Pending on 2 segments; See Appendix A	TMDLs complete for 3 segments; impairment cause is NP
	Future Needs		0.17 MGD of additional Ag SW development		1.29 MGD of additional GW development			1.05 MGD of additional WW capacity development		None under permit capacity conditions		
	Preliminary Management Practices		1) Replacement of SW Ag demands with GW during dry years; 2) Ag conservation; 3) Small-scale storage in individual Ag ponds 4) Aquifer storage and recovery (ASR)		Permitted Capacity			Permitted Capacity		None	1) Cite TMDL implementation status for DO, Bio F, pH, and FC; 2) Further develop specific MPs based on TMDL implementation plan recommendations 3) Resolve naturally low DO	
Council or Additional Coordination - Shared Resource		Altamaha - Satilla River Basin, Atkinson Node and Ocmulgee River Basin, Lumber City Node								Altamaha - Ocmulgee River		

Berrien County



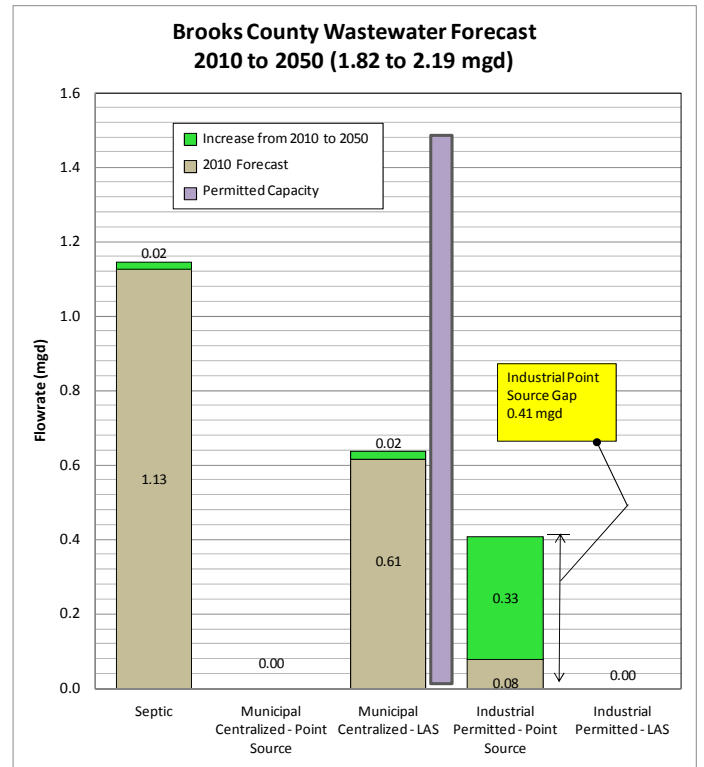
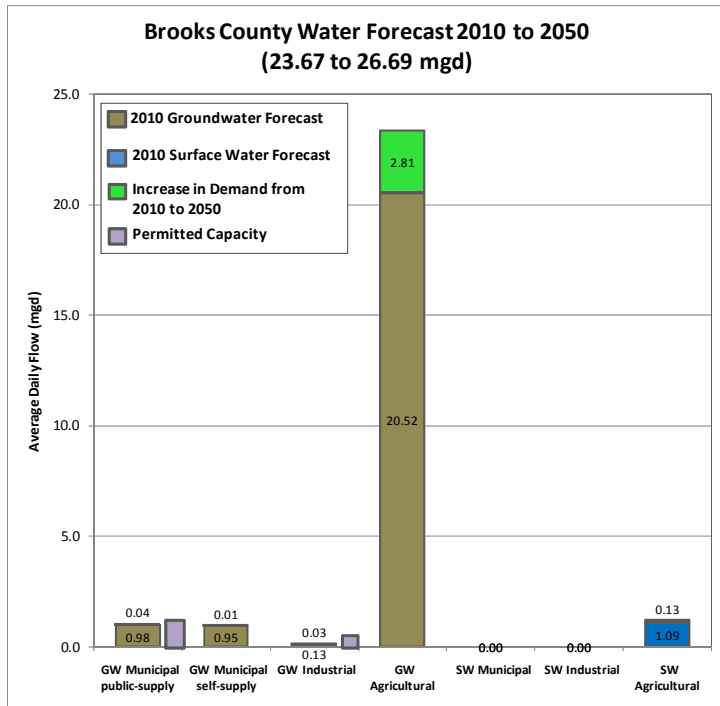
County	Demand Sector	WATER SUPPLY					WASTEWATER			WATER QUALITY		
		2010 Forecast Water Demand (MGD)	Increase in SW Demand from 2010 to 2050/Associated Planning Node	Permitted SW Withdrawal Capacity	Increase in GW Demand from 2010 to 2050	Permitted GW Withdrawal Capacity	2010 Forecast Wastewater Demand (MGD)	Increase in Wastewater Flows from 2010 to 2050	Permitted Wastewater Capacity (MGD)	Assimilative Capacity Limitations (DO)	Current Water Quality Impairments	TMDL Implementation Status
Berrien	Municipal	2.00	0.00/Pinetta & Statenville	N/A	0.60 (0.33 Public; 0.27 Self)	1.50	Septic 1.07 Centralized 0.83	Septic 0.31 Centralized 0.26	Centralized 1.20			
	Industrial	0.04	0.00/Pinetta & Statenville	N/A	0.00	1.15	0.02	0.00	0.08			
	Agricultural	16.62	0.77/Pinetta & Statenville		1.12							
	Total	18.66	0.77/Pinetta & Statenville		1.72	2.65	1.92	0.57	1.28			
	Gaps		Yes, 2010 Ag SW use of 4.91 MGD at Pinetta & Statenville; Additional 0.77 MGD of 2050 Ag SW use at Pinetta & Statenville			None			None	None under baseline conditions	Impairments on 4 segments for DO, FC or TWR; Assessment Pending on 2 segments; See Appendix A	TMDLs complete for all 4 segments; impairment cause is NP
	Future Needs		0.77 MGD of additional Ag SW development		1.72 MGD of additional GW development			0.57 MGD of additional WW capacity development		None under permit capacity conditions		
	Preliminary Management Practices (NOT PRIORITIZED)		1) Replacement of SW Ag demands with GW during dry years; 2) Ag conservation; 3) Small-scale storage in individual Ag ponds 4) Aquifer storage and recovery (ASR)		Permitted Capacity	Planned Project - new GW Application filed for Town of Enigma 0.225 MGD		Permitted Capacity		None	1) Cite TMDL implementation status for DO, FC and TWR; 2) Further develop specific MPs based on TMDL implementation plan recommendations 3) Resolve naturally low DO	
Council or Additional Coordination - Shared Resource		Lower Flint-Ochlockonee - New River in Suwannee River Basin, Pinetta Node; Upper Flint & Altamaha - Alapaha River in Suwannee River Basin, Statenville Node								Altamaha & Upper Flint - Suwannee River		

Brantley County



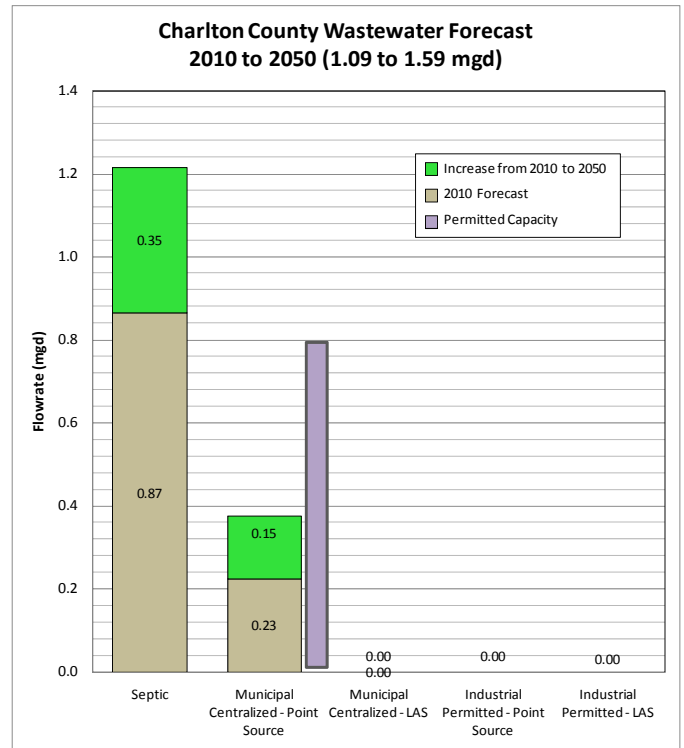
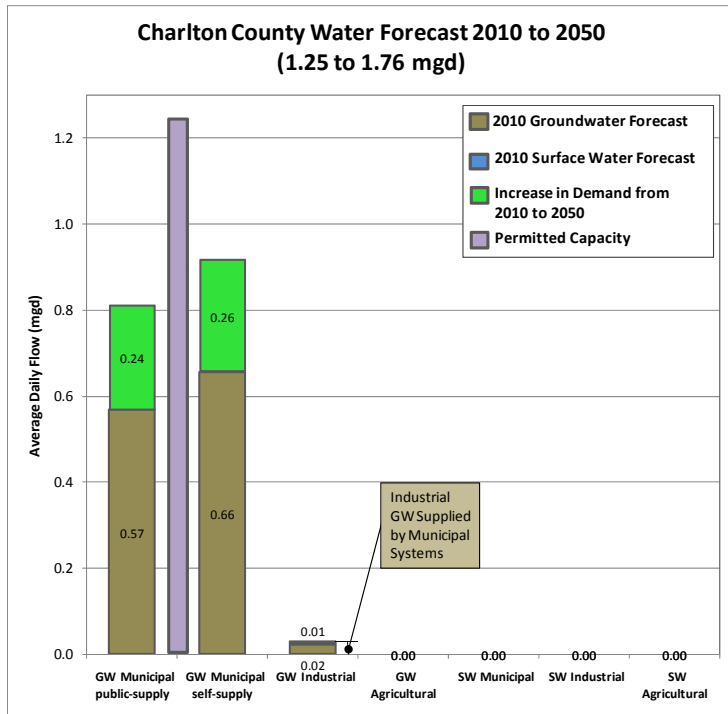
County	Demand Sector	WATER SUPPLY					WASTEWATER			WATER QUALITY		
		2010 Forecast Water Demand (MGD)	Increase in SW Demand from 2010 to 2050/Associated Planning Node	Permitted SW Withdrawal Capacity	Increase in GW Demand from 2010 to 2050	Permitted GW Withdrawal Capacity	2010 Forecast Wastewater Demand (MGD)	Increase in Wastewater Flows from 2010 to 2050	Permitted Wastewater Capacity (MGD)	Assimilative Capacity Limitations (DO)	Current Water Quality Impairments	TMDL Implementation Status
Brantley	Municipal	1.60	0.00/Atkinson	N/A	1.48 (0.19 Public; 1.29 Self)	0.20	Septic 1.22 Centralized 0.02	Septic 1.12 Centralized 0.01	Centralized 0.12			
	Industrial	1.02	0.06/Atkinson	1.00	0.00	0.00	0.00	0.00	0.00			
	Agricultural	0.49	0.02/Atkinson		0.04							
	Total	3.11	0.08/Atkinson	1.00	1.52	0.20	1.24	1.13	0.12			
	Gaps		Yes, 2010 Ind SW use of 1.02 MGD and Ag SW use of 0.14 MGD at Atkinson; Additional 0.06 MGD of 2050 Ind SW use and 0.02 MGD of 2050 Ag SW use at Atkinson			Publicly-supplied gap occurs between 2010 and 2020; Gap at 2050 is 0.20 MGD			None	Assimilative Capacity exceeded on one segment of Satilla River under baseline conditions	Impairments on 4 segments for DO, FC or TWR; Assessment Pending on 1 segment; See Appendix A	TMDLs complete for 2 segments; impairment cause is NP
	Future Needs		0.08 MGD of additional Ag SW development		1.52 MGD of additional GW development			1.13 MGD of additional WW capacity development		Assimilative Capacity exceeded on same segment of Satilla River under permit capacity conditions		
	Preliminary Management Practices		1) Ind conservation; 2) Replacement of SW Ag demands with GW during dry years; 3) Ag conservation; 4) Regional surface storage in Satilla River Basin; 5) Small-scale storage in individual Ag ponds 6) Aquifer storage and recovery (ASR)			No planned projects found.		Permitted Capacity		Identify potential Point Sources; Identify Non-Point Source BMPs targeting landuse upstream of impairment	1) Cite TMDL implementation status for DO, FC and TWR; 2) Further develop specific MPs based on TMDL implementation plan recommendations 3) Resolve naturally low DO	
	Council or Additional Coordination - Shared Resource		Altamaha - Satilla River Basin, Atkinson Node								Altamaha - Little Satilla River; Coastal Georgia - Satilla River	

Brooks County



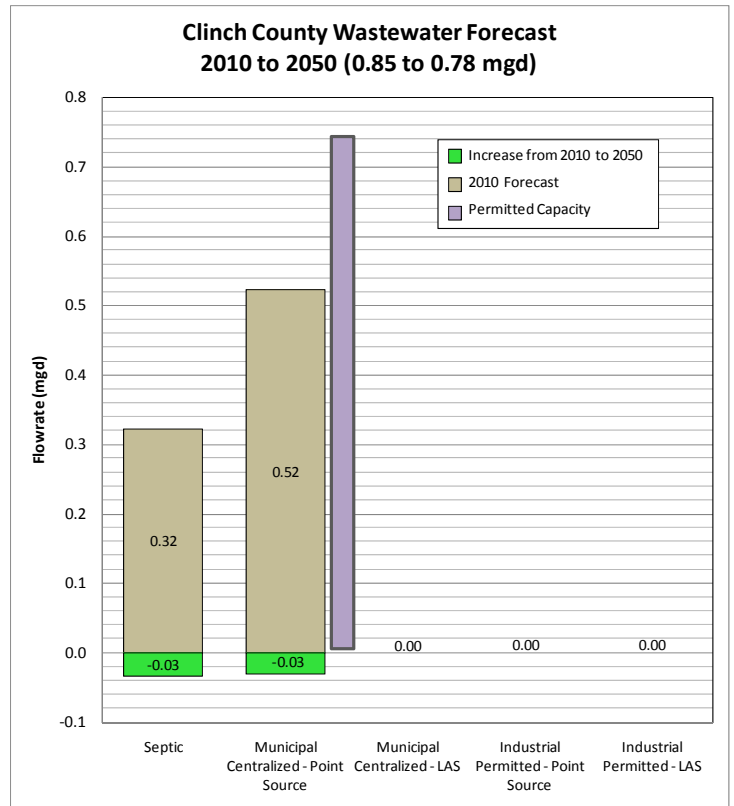
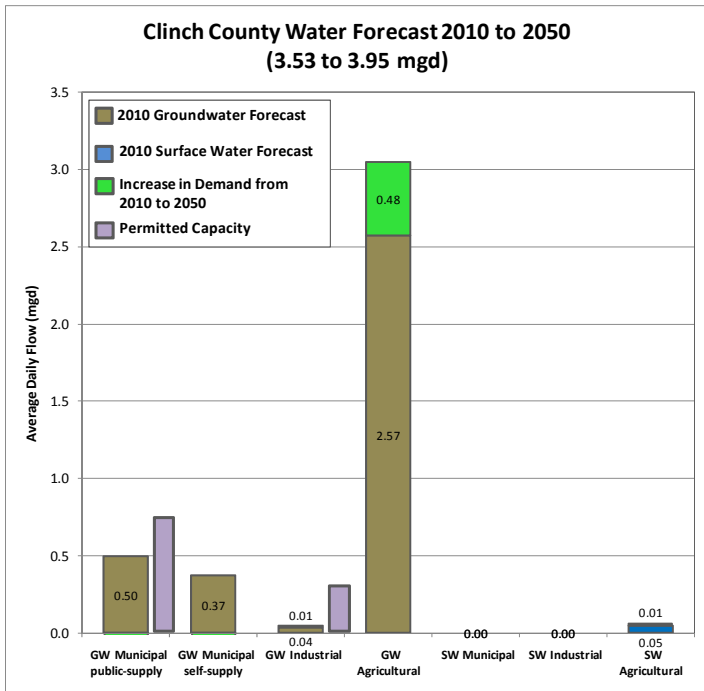
County	Demand Sector	WATER SUPPLY					WASTEWATER				WATER QUALITY	
		2010 Forecast Water Demand (MGD)	Increase in SW Demand from 2010 to 2050/Associated Planning Node	Permitted SW Withdrawal Capacity	Increase in GW Demand from 2010 to 2050	Permitted GW Withdrawal Capacity	2010 Forecast Wastewater Demand (MGD)	Increase in Wastewater Flows from 2010 to 2050	Permitted Wastewater Capacity (MGD)	Assimilative Capacity Limitations (DO)	Current Water Quality Impairments	TMDL Implementation Status
Brooks	Municipal	1.93	0.00/Pinetta	N/A	0.05 (0.04 Public; 0.01 Self)	1.40	Septic 1.13 Centralized 0.61	Septic 0.02 Centralized 0.02	Centralized 1.51			
	Industrial	0.13	0.00/Pinetta	N/A	0.03	0.60	0.08	0.33	0.00			
	Agricultural	22.65	0.13/Pinetta		2.81							
	Total	24.71	0.13/Pinetta		2.89	2.00	1.82	0.37	1.51			
	Gaps		Yes, 2010 Ag SW use of 1.09 MGD at Pinetta; Additional 0.13 MGD of 2050 Ag SW use at Pinetta			None			None - Check for industrial WW permit	None under baseline conditions	Impairments on 6 segments for DO, FC, pH or TWR; Assessment Pending on 1 segment; See Appendix A	TMDLs complete for 4 segments; impairment cause is NP
	Future Needs		0.13 MGD of additional Ag SW development		2.89 MGD of additional GW development			0.37 MGD of additional WW capacity development		None under permit capacity conditions		
	Preliminary Management Practices		1) Replacement of SW Ag demands with GW during dry years; 2) Ag conservation; 3) Small-scale storage in individual Ag ponds 4) Aquifer storage and recovery (ASR)		Permitted Capacity			Permitted Capacity		None	1) Cite TMDL implementation status for DO, FC, pH and TWR; 2) Further develop specific MPs based on TMDL implementation plan recommendations 3) Resolve naturally low DO	
	Council or Additional Coordination - Shared Resource		Lower Flint-Ochlockonee - New River in Suwannee River Basin, Pinetta Node								Altamaha - Withlacoochee River; Lower Flint-Ochlockonee - Piscola Creek	

Charlton County



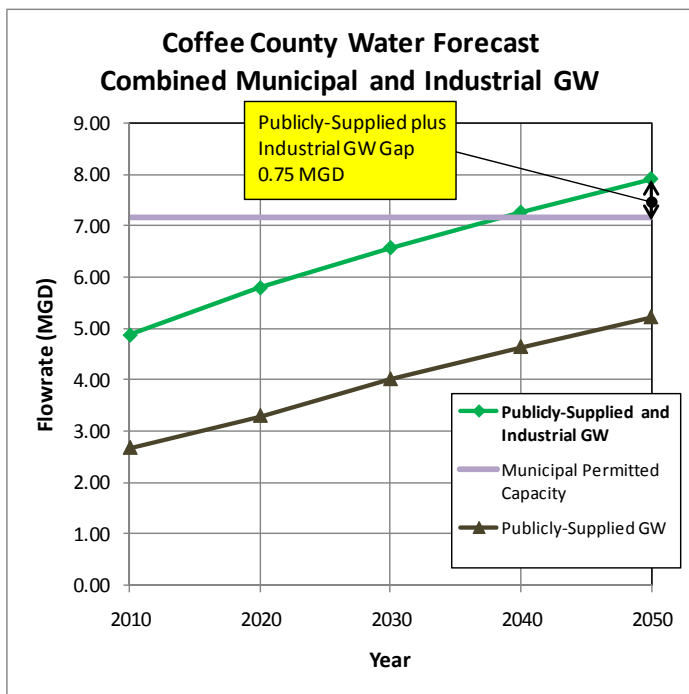
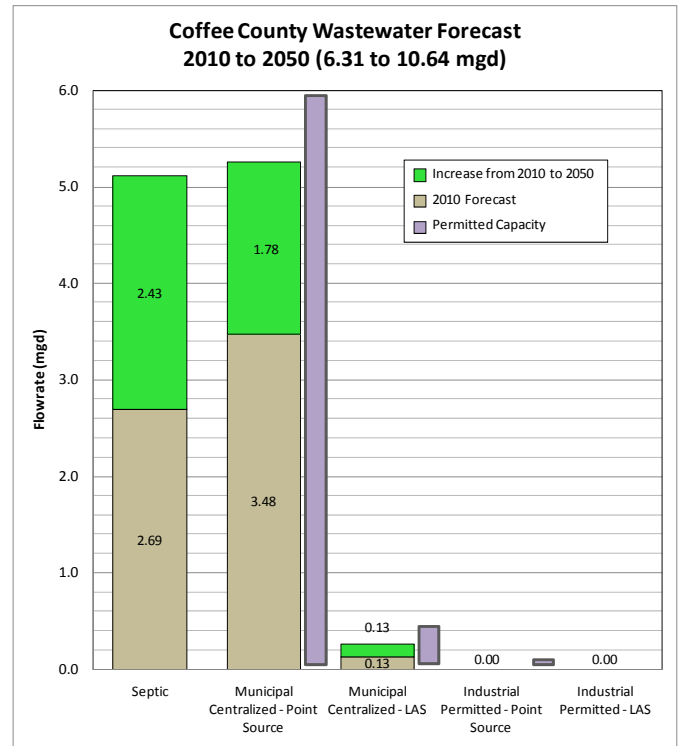
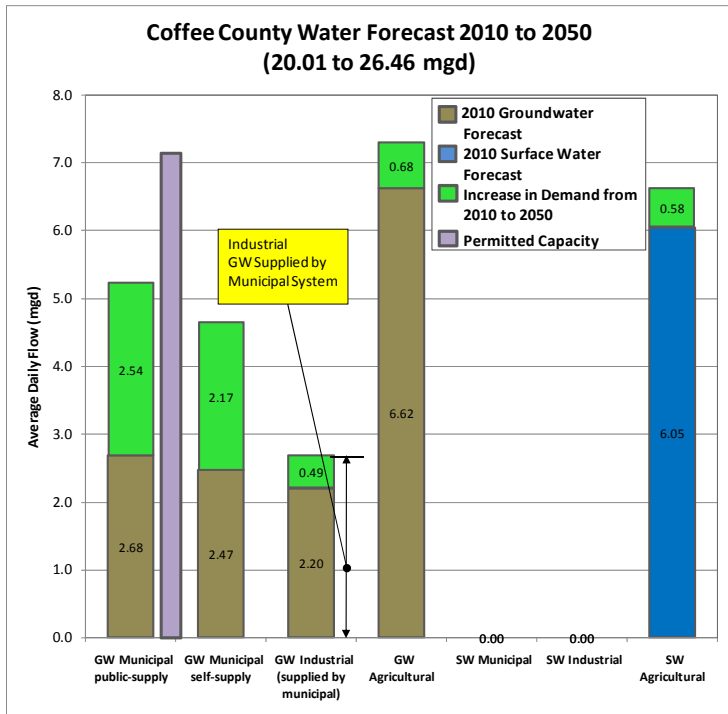
County	Demand Sector	WATER SUPPLY					WASTEWATER			WATER QUALITY		
		2010 Forecast Water Demand (MGD)	Increase in SW Demand from 2010 to 2050/Associated Planning Node	Permitted SW Withdrawal Capacity	Increase in GW Demand from 2010 to 2050	Permitted GW Withdrawal Capacity	2010 Forecast Wastewater Demand (MGD)	Increase in Wastewater Flows from 2010 to 2050	Permitted Wastewater Capacity (MGD)	Assimilative Capacity Limitations (DO)	Current Water Quality Impairments	TMDL Implementation Status
Charlton	Municipal	1.23	0.00/Fargo & Gross	N/A	0.50 (0.24 Public; 0.26 Self)	1.25	Septic 0.87 Centralized 0.23	Septic 0.35 Centralized 0.15	Centralized 0.79			
	Industrial	0.02	0.00/Fargo & Gross	N/A	0.01	0.00	0.00	0.00	0.00			
	Agricultural	0.03	0.00/Fargo & Gross		0.00							
	Total	1.28	0.00/Fargo & Gross		0.51	1.25	1.09	0.50	0.79			
	Gaps		None			None			None	Assimilative Capacity exceeded on segments of Spanish Creek and St. Mary's River under baseline conditions	Impairments on 6 segments for DO, FC, or TWR; Assessment Pending on 4 segments; See Appendix A	TMDLs complete for 4 segments; impairment cause is NP or UR
	Future Needs		None		0.51 MGD of additional GW development			0.50 MGD of additional WW capacity development		Assimilative Capacity exceeded on same segments of Spanish Creek and St. Mary's River under permit capacity conditions		
	Preliminary Management Practices		None		Permitted Capacity			Permitted Capacity		Identify potential Point Sources; Identify Non-Point Source BMPs targeting landuse upstream of impairment	1) Cite TMDL implementation status for DO, FC, and TWR; 2) Further develop specific MPs based on TMDL implementation plan recommendations 3) Resolve naturally low DO	
	Council or Additional Coordination - Shared Resource		None								Coastal Georgia - St. Mary's River	

Clinch County



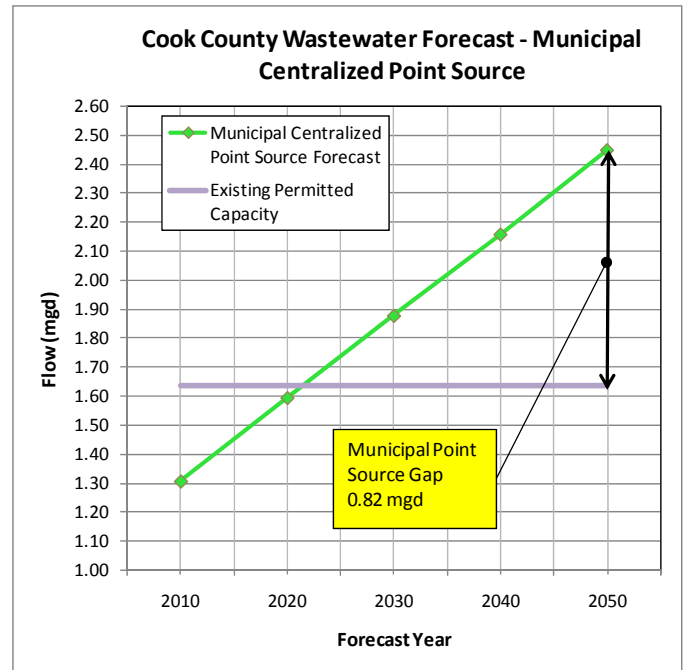
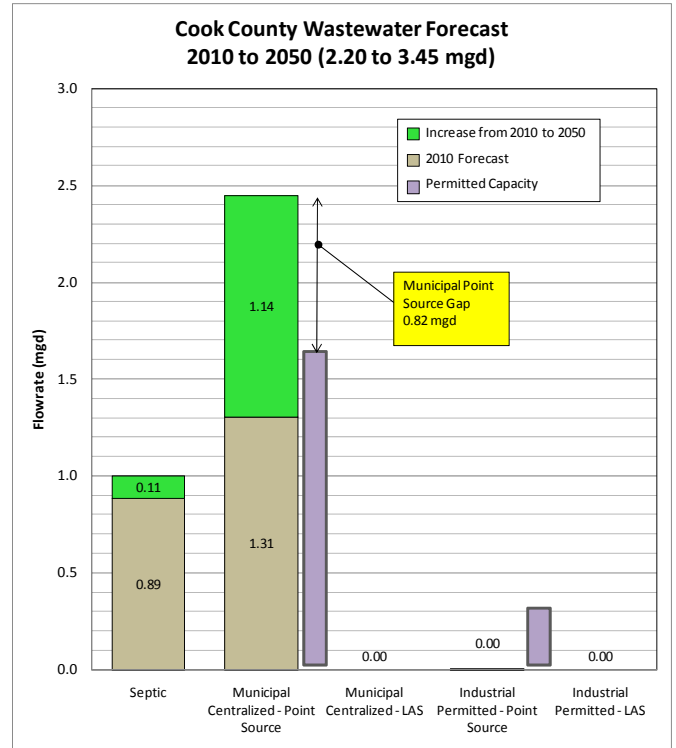
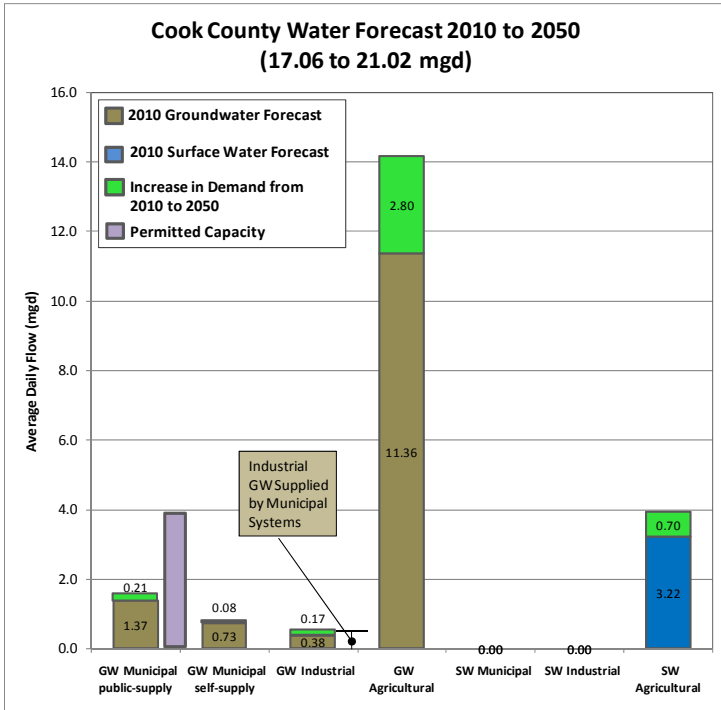
County	Demand Sector	WATER SUPPLY				WASTEWATER				WATER QUALITY		
		2010 Forecast Water Demand (MGD)	Increase in SW Demand from 2010 to 2050/Associated Planning Node	Permitted SW Withdrawal Capacity	Increase in GW Demand from 2010 to 2050	Permitted GW Withdrawal Capacity	2010 Forecast Wastewater Demand (MGD)	Increase in Wastewater Flows from 2010 to 2050	Permitted Wastewater Capacity (MGD)	Assimilative Capacity Limitations (DO)	Current Water Quality Impairments	TMDL Implementation Status
Clinch	Municipal	0.87	0.00/Fargo	N/A	-0.07 (-0.03 Public; -0.04 Self)	0.75	Septic 0.32 Centralized 0.52	Septic -0.03 Centralized -0.03	Centralized 0.75			
	Industrial	0.04	0.00/Fargo	N/A	0.01	0.30	0.00	0.00	0.00			
	Agricultural	2.64	0.01/Fargo		0.48							
	Total	3.55	0.01/Fargo		0.41	1.05	0.84	-0.06	0.75			
	Gaps		None			None			None	Assimilative Capacity exceeded in a portion of Tatum Creek under baseline conditions	Tatum Creek impaired for FC; Impairments on 5 other segments for DO, FC or TWR; Assessment Pending on 1 segment; See Appendix A	TMDLs complete for 3 segments; impairment cause is NP
	Future Needs		0.01 MGD of additional Ag SW development		0.41 MGD of additional GW development			None		Assimilative Capacity exceeded on a longer segment of Tatum Creek and Woodyard Creek under permit limit conditions		
	Preliminary Management Practices		None		Permitted Capacity					Identify potential Point Sources; Identify Non-Point Source BMPs targeting landuse upstream of impairment	1) Cite TMDL implementation status for DO, FC or TWR; 2) Further develop specific MPs based on TMDL implementation plan recommendations 3) Resolve naturally low DO	
	Council or Additional Coordination - Shared Resource		None								None - impairments originate and terminate in Suwannee-Satilla Region	

Coffee County



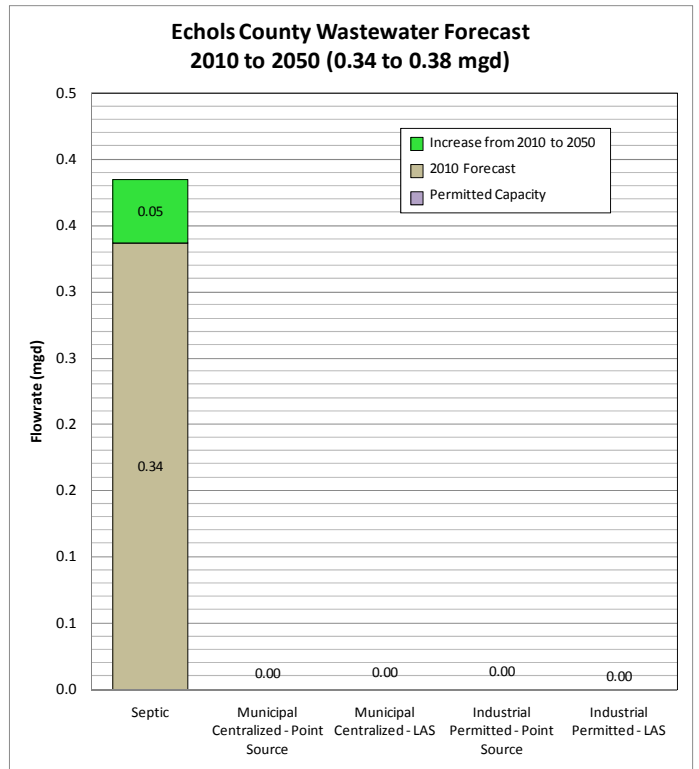
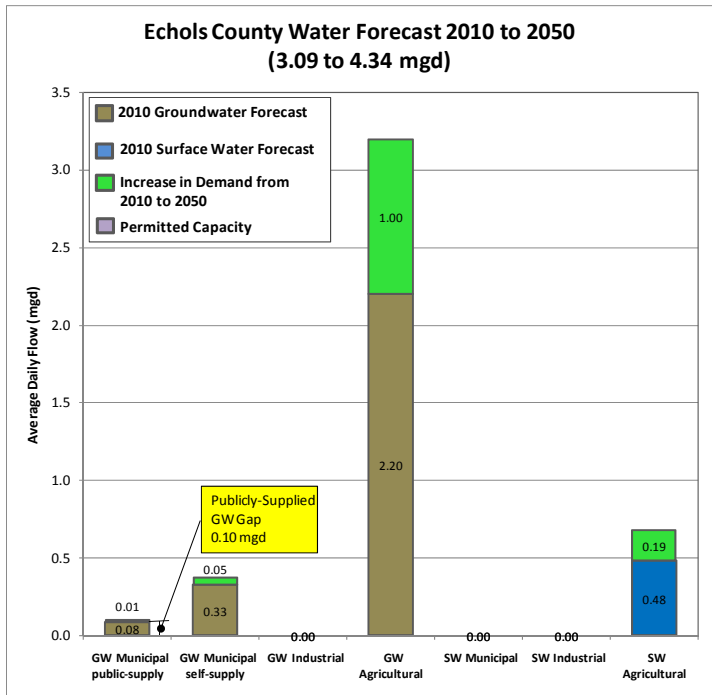
County	Demand Sector	WATER SUPPLY				WASTEWATER				WATER QUALITY		
		2010 Forecast Water Demand (MGD)	Increase in SW Demand from 2010 to 2050/Associated Planning Node	Permitted SW Withdrawal Capacity	Increase in GW Demand from 2010 to 2050	Permitted GW Withdrawal Capacity	2010 Forecast Wastewater Demand (MGD)	Increase in Wastewater Flows from 2010 to 2050	Permitted Wastewater Capacity (MGD)	Assimilative Capacity Limitations (DO)	Current Water Quality Impairments	TMDL Implementation Status
Coffee	Municipal	5.15	0.00/Atkinson & Lumber City	N/A	4.71 (2.54 Public; 2.17 Self)	7.16	Septic 2.69 Centralized 3.61	Septic 2.43 Centralized 1.91	Centralized 6.40			
	Industrial	2.20	0.00/Atkinson & Lumber City	N/A	0.49	0.00	0.00	0.00	0.01			
	Agricultural	13.23	0.58/Atkinson & Lumber City		0.68							
	Total	20.58	0.58/Atkinson & Lumber City		5.88	7.16	6.31	4.34	6.41			
	Gaps		Yes, 2010 Ag SW use of 6.05 MGD, some of which is at Atkinson; Additional 0.58 MGD of 2050 Ag SW use, some of which is at Atkinson			Possible publicly-supplied gap occurs between 2030 and 2040 if industrial demand is municipally-supplied; Gap at 2050 would be 0.75 MGD			None	None under baseline conditions	Impairments on 7 segments for DO or FC; Assessment Pending on 4 segments; See Appendix A	TMDLs complete for 5 segments; impairment cause is NP
	Future Needs		0.58 MGD of additional Ag SW development		5.88 MGD of additional GW development			4.34 MGD of additional WW capacity development		None under permit capacity conditions		
	Preliminary Management Practices		1) Replacement of SW Ag demands with GW during dry years; 2) Ag conservation; 3) Regional surface storage in Satilla River Basin; 4) Small-scale storage in individual Ag ponds 5) Aquifer storage and recovery (ASR)		Permitted Capacity					None	1) Cite TMDL implementation status for DO or FC; 2) Further develop specific MPs based on TMDL implementation plan recommendations 3) Resolve naturally low DO	
Council or Additional Coordination - Shared Resource		Altamaha - Satilla River Basin, Atkinson Node								None - impairments originate and terminate in Suwannee-Satilla Region		

Cook County



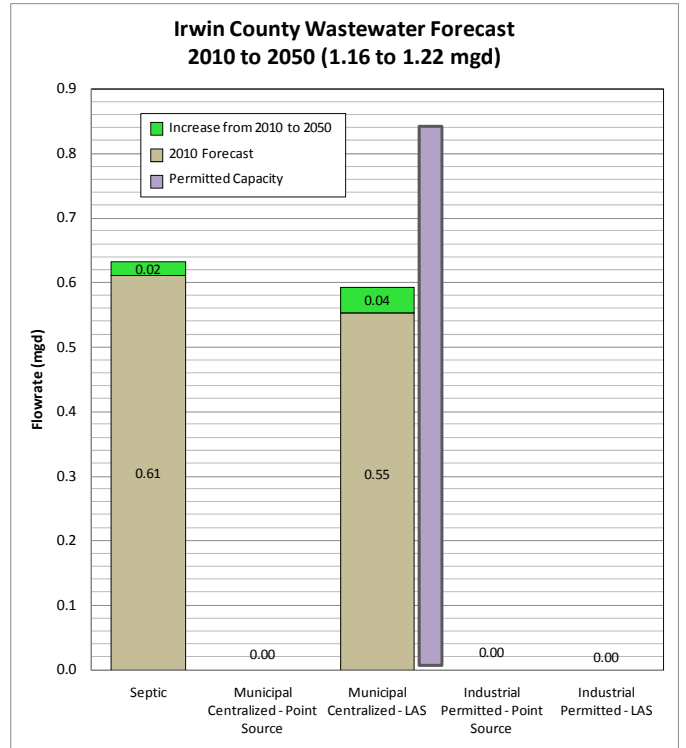
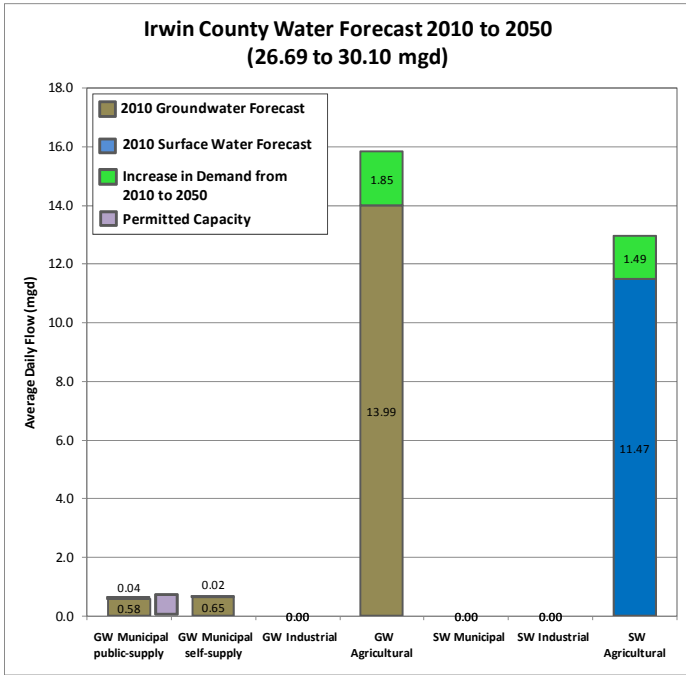
County	Demand Sector	WATER SUPPLY					WASTEWATER				WATER QUALITY	
		2010 Forecast Water Demand (MGD)	Increase in SW Demand from 2010 to 2050/Associated Planning Node	Permitted SW Withdrawal Capacity	Increase in GW Demand from 2010 to 2050	Permitted GW Withdrawal Capacity	2010 Forecast Wastewater Demand (MGD)	Increase in Wastewater Flows from 2010 to 2050	Permitted Wastewater Capacity (MGD)	Assimilative Capacity Limitations (DO)	Current Water Quality Impairments	TMDL Implementation Status
Cook	Municipal	2.10	0.00/Pinetta	N/A	0.29 (0.21 Public; 0.08 Self)	3.85	Septic 0.89 Centralized 1.31	Septic 0.11 Centralized 1.14	Centralized 1.64			
	Industrial	0.38	0.00/Pinetta	N/A	0.17	0.00	0.00	0.00	0.30			
	Agricultural	14.77	0.70/Pinetta		2.80							
	Total	17.25	0.70/Pinetta		3.26	3.85	2.20	1.25	1.94			
	Gaps		Yes, 2010 Ag SW use of 3.22 MGD at Pinetta; Additional 0.70 MGD of 2050 Ag SW use at Pinetta			None			Municipal Centralized Gap occurs between 2020 and 2030; Gap at 2050 is 0.82 MGD	None under baseline conditions	Impairments on 4 segments for DO, TWR or FC; See Appendix A	TMDLs complete for 3 segments; impairment cause is NP
	Future Needs		0.70 MGD of additional Ag SW development		3.26 MGD of additional GW development			1.25 MGD of additional WW capacity development		None under permit capacity conditions		
	Preliminary Management Practices		1) Replacement of SW Ag demands with GW during dry years; 2) Ag conservation; 3) Small-scale storage in individual Ag ponds 4) Aquifer storage and recovery (ASR)		Permitted Capacity				Planned projects at Lennox (existing 0.17 MGD) and Cecil (new facility) to increase total county capacity by 0.78 MGD	None	1) Cite TMDL implementation status for DO, TWR or FC; 2) Further develop specific MPs based on TMDL implementation plan recommendations 3) Resolve naturally low DO	
	Council or Additional Coordination - Shared Resource		Lower Flint-Ochlockonee - New River in Suwannee River Basin, Pinetta Node								None - impairments originate and terminate in Suwannee-Satilla Region	

Echols County



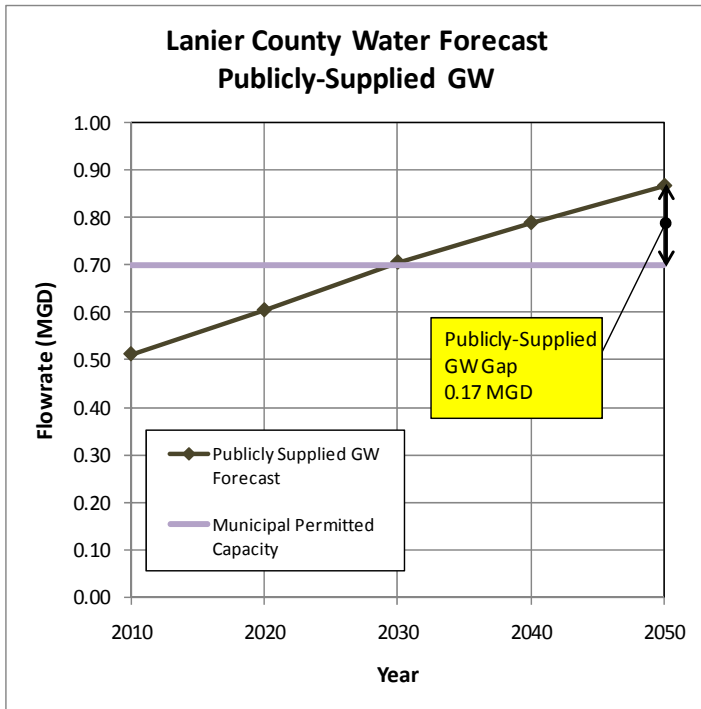
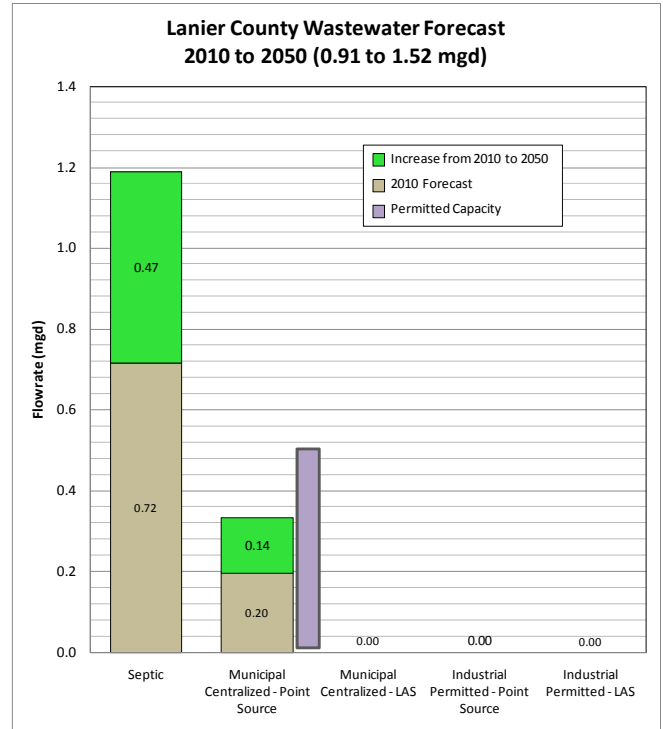
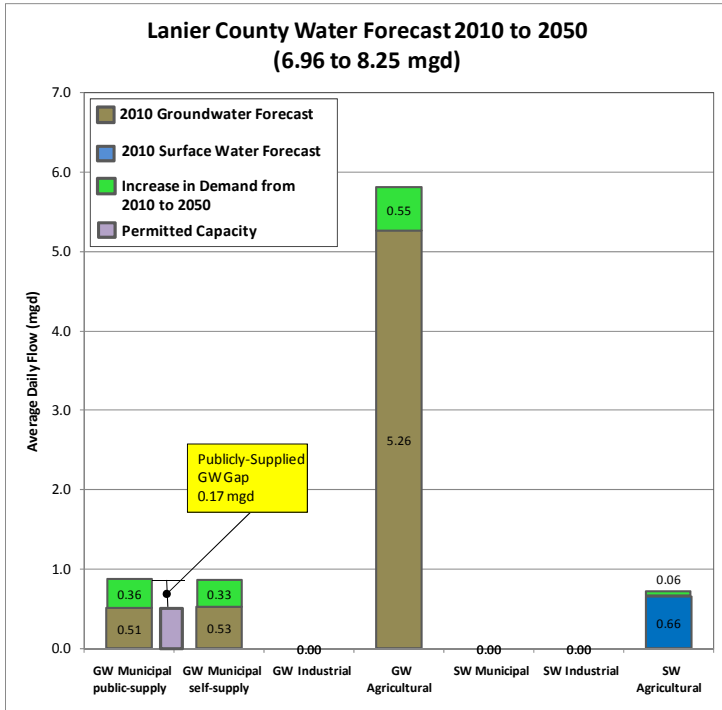
County	Demand Sector	WATER SUPPLY					WASTEWATER			WATER QUALITY		
		2010 Forecast Water Demand (MGD)	Increase in SW Demand from 2010 to 2050/Associated Planning Node	Permitted SW Withdrawal Capacity	Increase in GW Demand from 2010 to 2050	Permitted GW Withdrawal Capacity	2010 Forecast Wastewater Demand (MGD)	Increase in Wastewater Flows from 2010 to 2050	Permitted Wastewater Capacity (MGD)	Assimilative Capacity Limitations (DO)	Current Water Quality Impairments	TMDL Implementation Status
Echols	Municipal	0.41	0.00/Fargo, Statenville & Jennings	N/A	0.06 (0.01 Public; 0.05 Self)	0.00	Septic 0.34 Centralized 0	Septic 0.05 Centralized 0	Centralized 0			
	Industrial	0.00	0.00/Fargo, Statenville & Jennings	N/A	0.00	0.00	0.00	0.00	0.00			
	Agricultural	2.69	0.19/Fargo, Statenville & Jennings		1.00							
	Total	3.10	0.19/Fargo, Statenville & Jennings		1.06	0.00	0.34	0.05	0.00			
	Gaps		Yes, 2010 Ag SW use of 0.48 MGD, some of which is at Statenville and Jennings; Additional 0.19 MGD of 2050 Ag SW use, some of which is at Statenville and Jennings			Possibly, but need to check on Echols County Water Authority permit - none listed in database, perhaps exists but below threshold.			None	None under baseline conditions	Impairments on Alapahoochee River for FC; Assessment pending for 2 segments; See Appendix A	TMDLs complete for Alapahoochee River; impairment cause is NP
	Future Needs		0.19 MGD of additional Ag SW development		1.06 MGD of additional GW development			0.05 MGD of additional WW capacity development		None under permit capacity conditions		
	Preliminary Management Practices		1) Replacement of SW Ag demands with GW during dry years; 2) Ag conservation; 3) Small-scale storage in individual Ag ponds 4) Aquifer storage and recovery (ASR)			No planned projects found.				None	1) Cite TMDL implementation status for FC; 2) Further develop specific MPs based on TMDL implementation plan recommendations 3) Resolve naturally low DO	
Council or Additional Coordination - Shared Resource		Upper Flint & Altamaha - Alapaha River in Suwannee River Basin, Statenville and Jennings Nodes								None - impairments originate and terminate in Suwannee-Satilla Region		

Irwin County



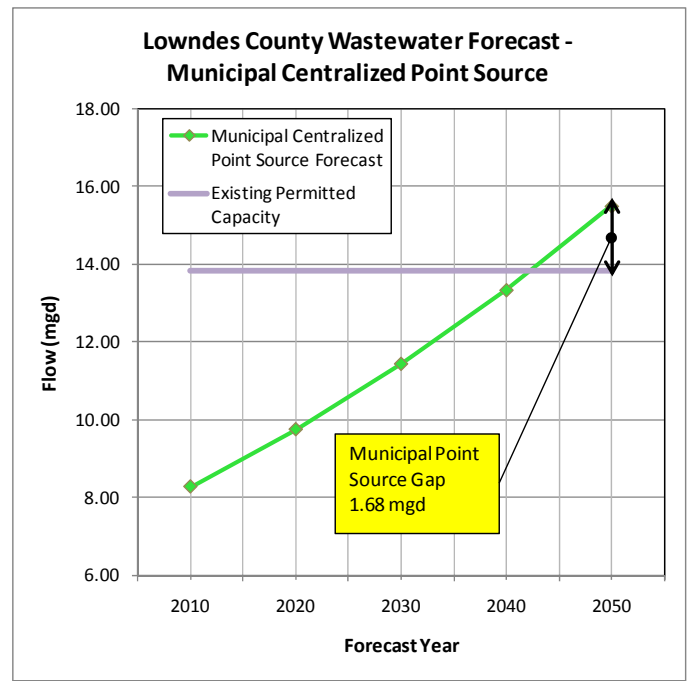
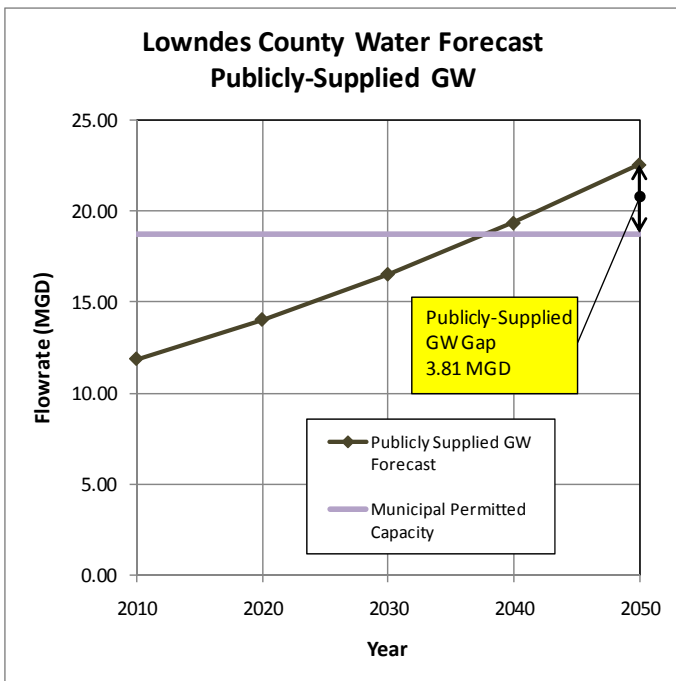
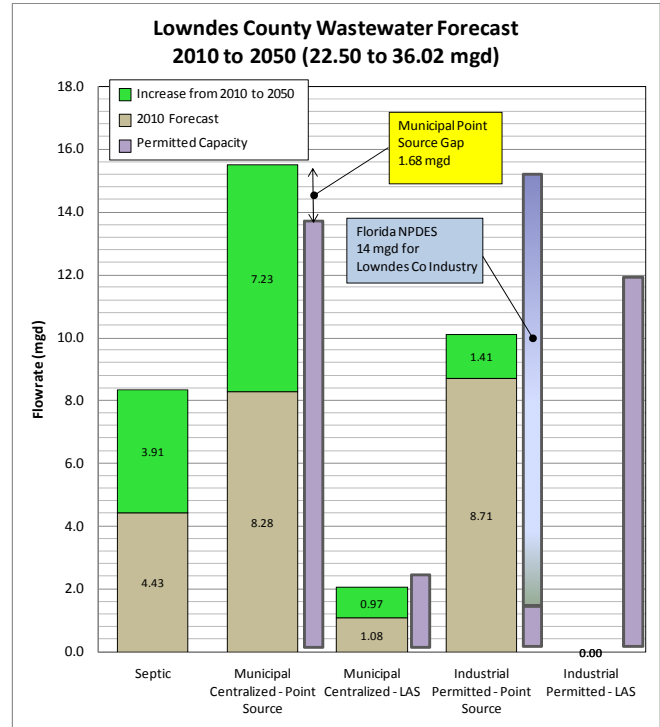
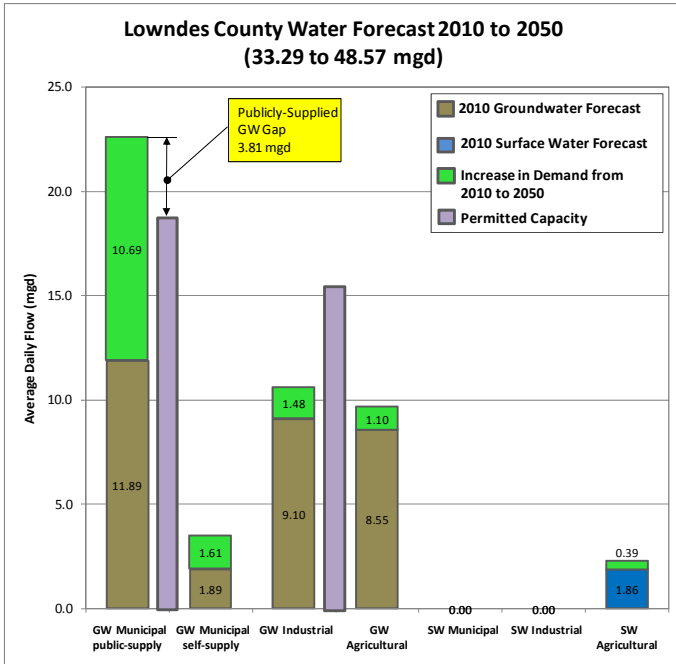
County	Demand Sector	WATER SUPPLY					WASTEWATER			WATER QUALITY		
		2010 Forecast Water Demand (MGD)	Increase in SW Demand from 2010 to 2050/Associated Planning Node	Permitted SW Withdrawal Capacity	Increase in GW Demand from 2010 to 2050	Permitted GW Withdrawal Capacity	2010 Forecast Wastewater Demand (MGD)	Increase in Wastewater Flows from 2010 to 2050	Permitted Wastewater Capacity (MGD)	Assimilative Capacity Limitations (DO)	Current Water Quality Impairments	TMDL Implementation Status
Irwin	Municipal	1.23	0.00/Statenville & Atkinson	N/A	0.06 (0.04 Public; 0.02 Self)	0.70	Septic 0.61 Centralized 0.55	Septic 0.02 Centralized 0.04	Centralized 0.85			
	Industrial	0.00	0.00/Statenville & Atkinson	N/A	0.00	0.00	0.00	0.00	0.00			
	Agricultural	25.68	1.49/Statenville & Atkinson		1.85							
	Total	26.91	1.49/Statenville & Atkinson		1.91	0.70	1.16	0.06	0.85			
	Gaps		Yes, 2010 Ag SW use of 11.47 MGD at Statenville & Atkinson; Additional 1.49 MGD of 2050 Ag SW use at Statenville & Atkinson			None			None	None under baseline conditions	Impairments on 5 segments for DO, TWR or FC; Assessment pending for 3 segments; See Appendix A	TMDLs complete for 5 segments; impairment cause is NP
	Future Needs		1.49 MGD of additional Ag SW development		1.91 MGD of additional GW development			0.06 MGD of additional WW capacity development		None under permit capacity conditions		
	Preliminary Management Practices		1) Replacement of SW Ag demands with GW during dry years; 2) Ag conservation; 3) Regional surface storage in Satilla River Basin; 4) Small-scale storage in individual Ag ponds 5) Aquifer storage and recovery (ASR)		Permitted Capacity					None	1) Cite TMDL implementation status for DO TWR or FC; 2) Further develop specific MPs based on TMDL implementation plan recommendations 3) Resolve naturally low DO	
Council or Additional Coordination - Shared Resource		Altamaha - Satilla River Basin, Atkinson Node; Upper Flint & Altamaha - Alapaha River in Suwannee River Basin, Statenville Node								Altamaha - Alapaha River		

Lanier County



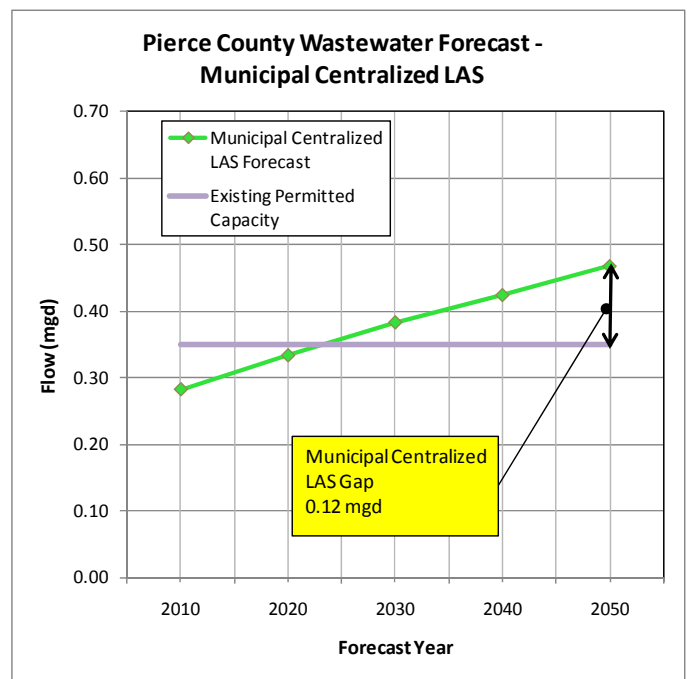
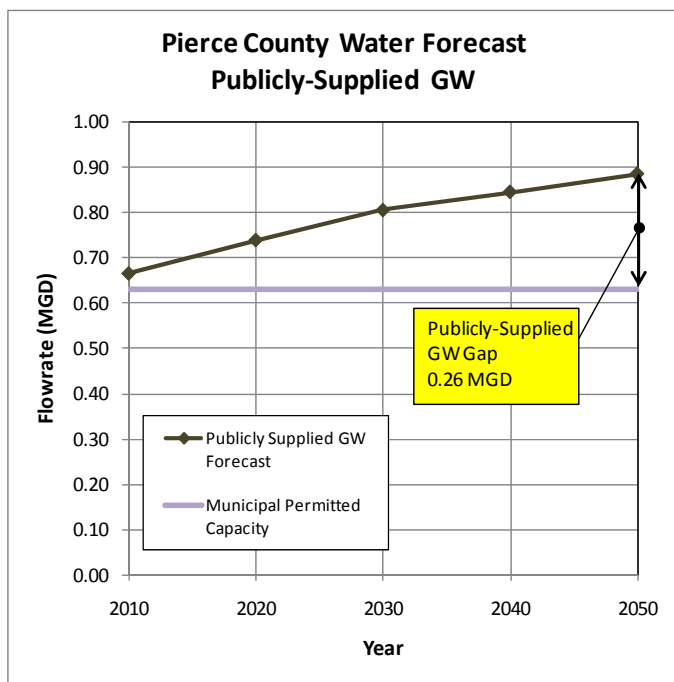
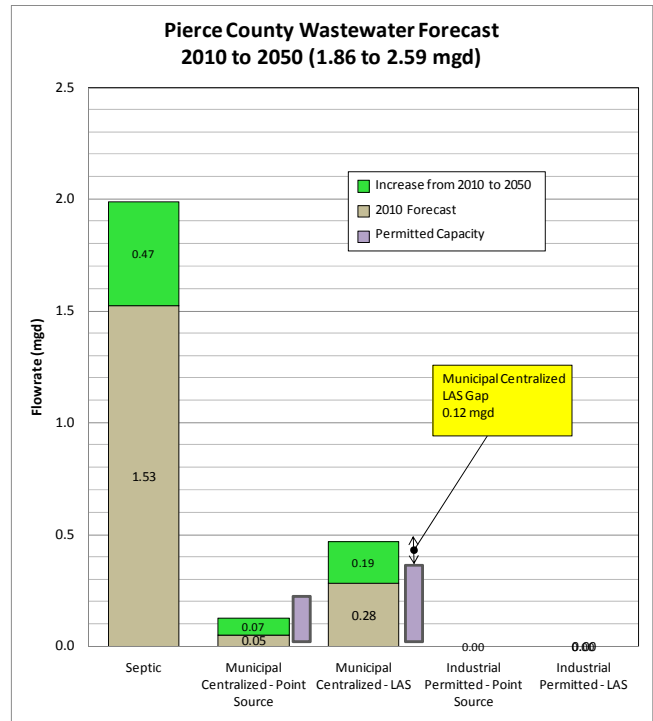
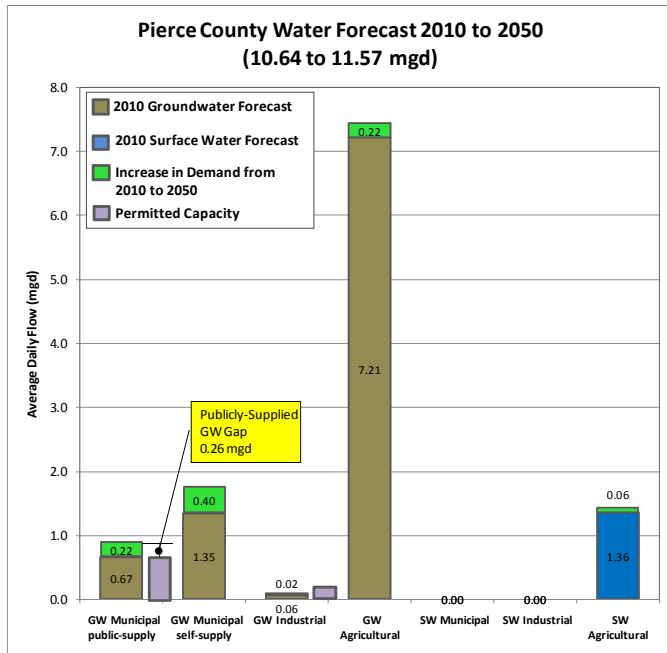
County	Demand Sector	WATER SUPPLY				WASTEWATER				WATER QUALITY		
		2010 Forecast Water Demand (MGD)	Increase in SW Demand from 2010 to 2050/Associated Planning Node	Permitted SW Withdrawal Capacity	Increase in GW Demand from 2010 to 2050	Permitted GW Withdrawal Capacity	2010 Forecast Wastewater Demand (MGD)	Increase in Wastewater Flows from 2010 to 2050	Permitted Wastewater Capacity (MGD)	Assimilative Capacity Limitations (DO)	Current Water Quality Impairments	TMDL Implementation Status
Lanier	Municipal	1.04	0.00/Statenville		0.66 (0.36 Public; 0.33 Self)	0.70	Septic 0.72 Centralized 0.20	Septic 0.47 Centralized 0.14	Centralized 0.50			
	Industrial	0.00	0.00/Statenville		0.00	0.00	0.00	0.00	0.00			
	Agricultural	6.01	0.06/Statenville		0.55							
	Total	7.05	0.06/Statenville		1.24	0.70	0.92	0.61	0.50			
	Gaps		Yes, 2010 Ag SW use of 0.66 MGD at Statenville; Additional 0.06 MGD of 2050 Ag SW use at Statenville			Publicly-supplied gap occurs between 2020 and 2030; Gap at 2050 is 0.17 MGD			None	None under baseline conditions	Impairments on Alpaha River for TWR; Assessment pending for 2 segments; See Appendix A	No TMDLs are completed
	Future Needs		0.06 MGD of additional Ag SW development		1.24 MGD of additional GW development			0.61 MGD of additional WW capacity development		None under permit capacity conditions		
	Preliminary Management Practices		1) Replacement of SW Ag demands with GW during dry years; 2) Ag conservation; 3) Regional surface storage in Satilla River Basin; 4) Small-scale storage in individual Ag ponds 5) Aquifer storage and recovery (ASR)			No planned projects found.				None	1) Cite TMDL implementation status for TWR; 2) Further develop specific MPs based on TMDL implementation plan recommendations	
	Council or Additional Coordination - Shared Resource		Upper Flint & Altamaha - Alapaha River in Suwannee River Basin, Statenville Node								Altamaha - Alpaha River	

Lowndes County



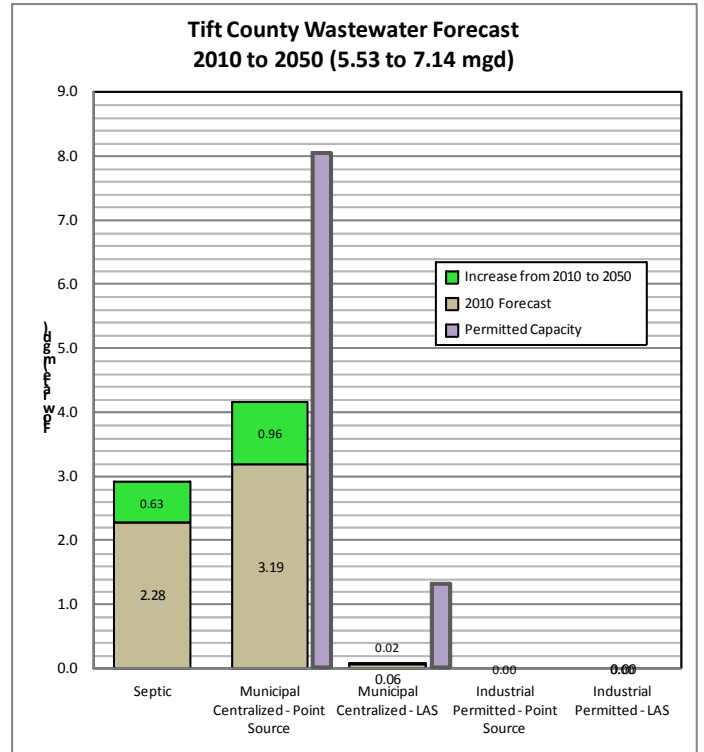
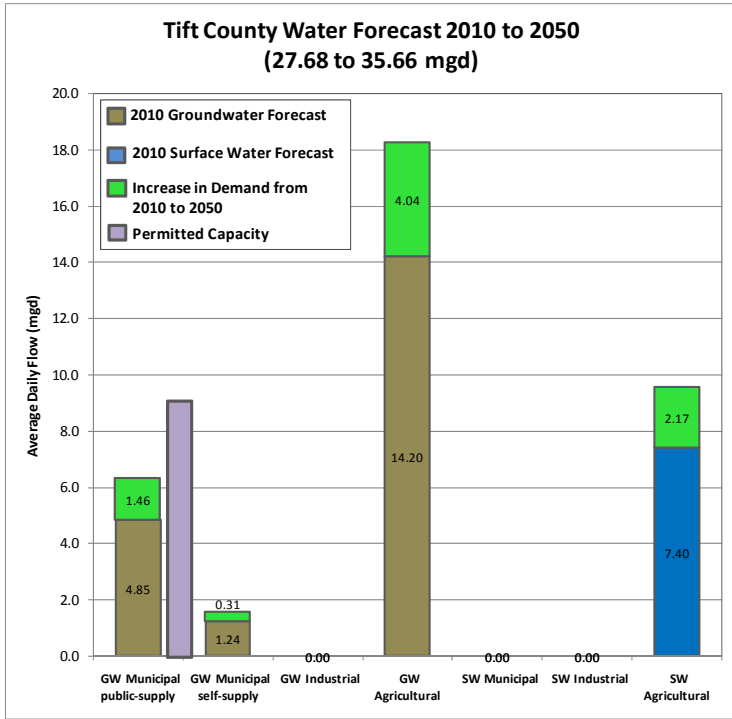
County	Demand Sector	WATER SUPPLY					WASTEWATER			WATER QUALITY		
		2010 Forecast Water Demand (MGD)	Increase in SW Demand from 2010 to 2050/Associated Planning Node	Permitted SW Withdrawal Capacity	Increase in GW Demand from 2010 to 2050	Permitted GW Withdrawal Capacity	2010 Forecast Wastewater Demand (MGD)	Increase in Wastewater Flows from 2010 to 2050	Permitted Wastewater Capacity (MGD)	Assimilative Capacity Limitations (DO)	Current Water Quality Impairments	TMDL Implementation Status
Lowndes	Municipal	13.78	0.00/Pinetta & Jennings	N/A	12.30 (10.69 Public; 1.61 Self)	18.77	Septic 4.43 Centralized 9.36	Septic 3.91 Centralized 8.20	Centralized 16.17			
	Industrial	9.10	0.00/Pinetta & Jennings	N/A	1.48	15.44	8.71	1.41	13.38			
	Agricultural	10.53	0.39/Pinetta & Jennings		1.10							
	Total	33.41	0.39/Pinetta & Jennings		14.88	34.21	22.50	13.52	29.55			
	Gaps		Yes, 2010 Ag SW use of 1.86 MGD at Pinetta & Jennings; Additional 0.39 MGD of 2050 Ag SW use at Pinetta & Jennings			Publicly-supplied gap occurs between 2030 and 2040; Gap at 2050 is 3.81 MGD			Municipal Centralized Gap occurs between 2040 and 2050; Gap at 2050 is 1.68 MGD	Assimilative Capacity exceeded on small segment of Cat Creek under baseline conditions	Impairments on 6 segments for DO, FC or TWR; Assessment pending for 5 segments; See Appendix A	TMDLs are complete for 5 segments; impairment cause is NP
	Future Needs		0.39 MGD of additional Ag SW development		14.88 MGD of additional GW development			13.52 MGD of additional WW capacity development		Assimilative Capacity exceeded on same segment of Cat Creek under permit capacity conditions		
	Preliminary Management Practices		1) Replacement of SW Ag demands with GW during dry years; 2) Ag conservation; 3) Small-scale storage in individual Ag ponds 4) Aquifer storage and recovery (ASR)			No gw application files found.			Planned project at Valdosta - Withlacoochee to increase capacity by 13.3 MGD	Identify potential Point Sources; Identify Non-Point Source BMPs targeting landuse upstream of impairment	1) Cite TMDL implementation status for DO, FC or TWR; 2) Further develop specific MPs based on TMDL implementation plan recommendations 3) Resolve naturally low DO	
	Council or Additional Coordination - Shared Resource		Lower Flint-Ochlockonee - New River in Suwannee River Basin, Pinetta Node; Upper Flint & Altamaha - Alapaha River in Suwannee River Basin, Jennings Node								Altamaha - Withlacoochee River	

Pierce County



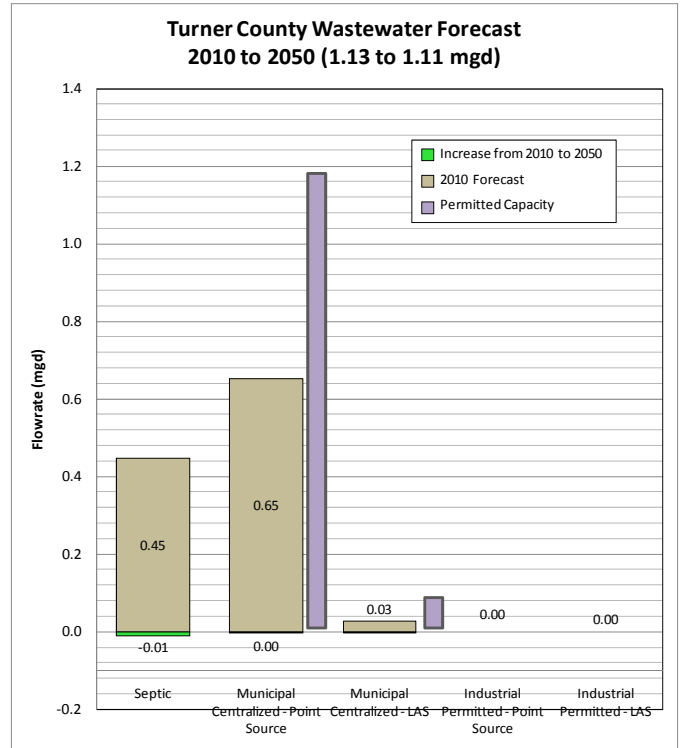
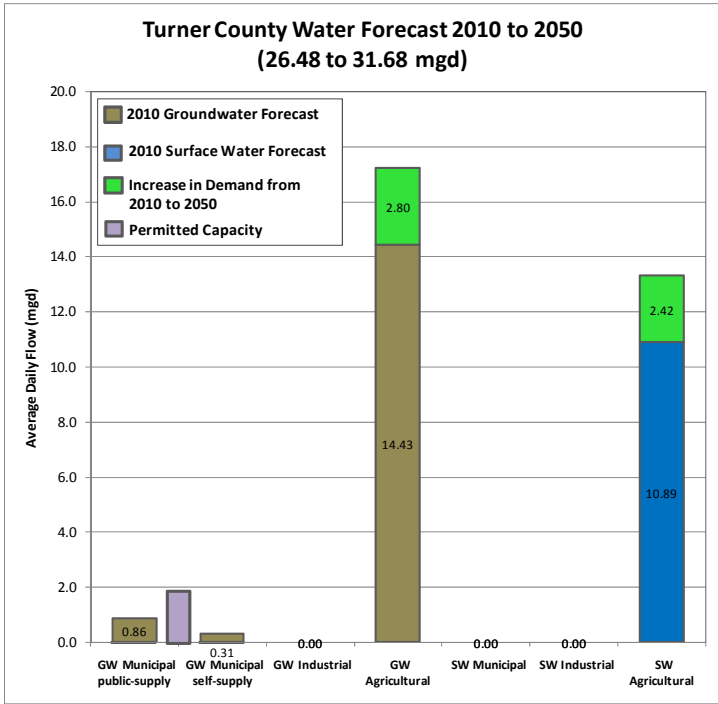
County	Demand Sector	WATER SUPPLY					WASTEWATER			WATER QUALITY		
		2010 Forecast Water Demand (MGD)	Increase in SW Demand from 2010 to 2050/Associated Planning Node	Permitted SW Withdrawal Capacity	Increase in GW Demand from 2010 to 2050	Permitted GW Withdrawal Capacity	2010 Forecast Wastewater Demand (MGD)	Increase in Wastewater Flows from 2010 to 2050	Permitted Wastewater Capacity (MGD)	Assimilative Capacity Limitations (DO)	Current Water Quality Impairments	TMDL Implementation Status
Pierce	Municipal	2.02	0.00/Atkinson	N/A	0.62 (0.22 Public; 0.40 Self)	0.63	Septic 1.53 Centralized 0.33	Septic 0.47 Centralized 0.26	Centralized 0.56 (PS 0.21, LAS 0.35)			
	Industrial	0.06	0.00/Atkinson	N/A	0.02	0.20	0.00	0.00	0.00			
	Agricultural	8.77	0.06/Atkinson		0.22							
	Total	10.85	0.06/Atkinson		0.86	0.83	1.86	0.73	0.56			
	Gaps		Yes, 2010 Ag SW use of 1.36 MGD at Atkinson; Additional 0.06 MGD of 2050 Ag SW use at Atkinson			Publicly-supplied gap occurs before 2020; Gap at 2050 is 0.26 MGD			Municipal Centralized-LAS Gap occurs between 2020 and 2030; Gap at 2050 is 0.12 MGD	Assimilative Capacity exceeded on some segments of Alabaha River, Little Hurricane Creek and Little Satilla River under baseline conditions; confirmed by 303 (d) list	Impairments on 4 segments for DO, FC or TWR; Assessment pending for 3 segments; See Appendix A	TMDLs are complete for Little Hurricane Creek and one more segment; impairment cause is NP
	Future Needs		0.06 MGD of additional Ag SW development		0.86 MGD of additional GW development			0.73 MGD of additional WW capacity development		Assimilative Capacity exceeded on same segments under permit capacity conditions, including additional reaches of the Alabaha River		
	Preliminary Management Practices		1) Replacement of SW Ag demands with GW during dry years; 2) Ag conservation; 3) Regional surface storage in Satilla River Basin; 4) Small-scale storage in individual Ag ponds 5) Aquifer storage and recovery (ASR)			No gw application files found.			Planned project - New LAS WWtp City of Blackshear (1 MGD) - DDR comment stage	Identify potential Point Sources; Identify Non-Point Source BMPs targeting landuse upstream of impairment	1) Cite TMDL implementation status for DO, FC or TWR; 2) Further develop specific MPs based on TMDL implementation plan recommendations 3) Resolve naturally low DO	
Council or Additional Coordination - Shared Resource		Altamaha - Satilla River Basin, Atkinson Node								Altamaha - Satilla River		

Tift County



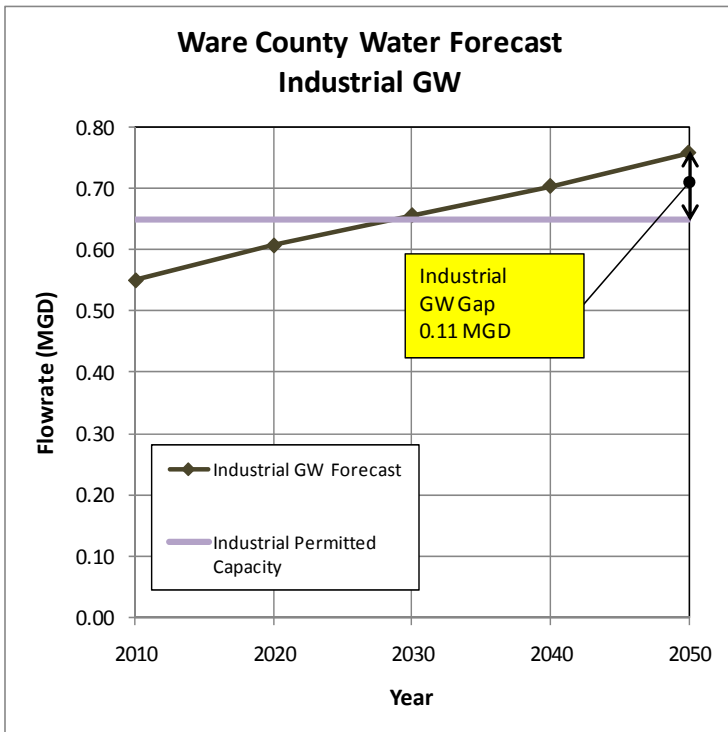
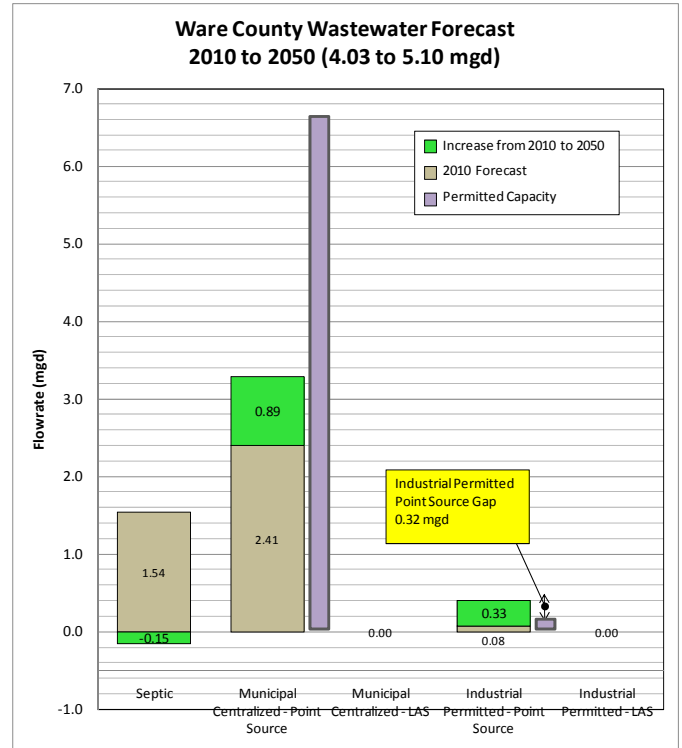
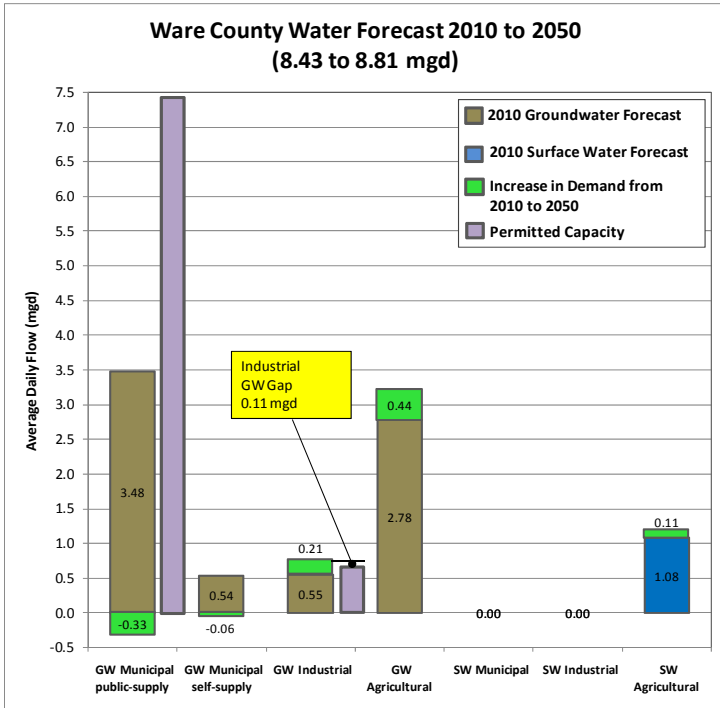
County	Demand Sector	WATER SUPPLY					WASTEWATER			WATER QUALITY		
		2010 Forecast Water Demand (MGD)	Increase in SW Demand from 2010 to 2050/Associated Planning Node	Permitted SW Withdrawal Capacity	Increase in GW Demand from 2010 to 2050	Permitted GW Withdrawal Capacity	2010 Forecast Wastewater Demand (MGD)	Increase in Wastewater Flows from 2010 to 2050	Permitted Wastewater Capacity (MGD)	Assimilative Capacity Limitations (DO)	Current Water Quality Impairments	TMDL Implementation Status
Tift	Municipal	6.09	0.00/Pinetta & Statenville	N/A	1.77 (1.46 Public; 0.31 Self)	9.18	Septic 2.28 Centralized 3.25	Septic 0.63 Centralized 0.98	Centralized 9.41			
	Industrial	0.00	0.00/Pinetta & Statenville	N/A	0.00	0.00	0.00	0.00	0.00			
	Agricultural	21.77	2.17/Pinetta & Statenville		4.04							
	Total	27.86	2.17/Pinetta & Statenville		5.81	9.18	5.53	1.61	9.41			
	Gaps		Yes, 2010 Ag SW use of 7.40 MGD at Pinetta & Statenville; Additional 2.70 MGD of 2050 Ag SW use at Pinetta & Statenville			None			None	Assimilative Capacity exceeded on segment of Hat Creek under baseline conditions	Impairments on 6 segments for DO, FC or TWR; See Appendix A	TMDLs for DO are complete for 4 segments and FC TMDL complete for all 6 segments; impairment cause is NP, M or UR
	Future Needs		2.70 MGD of additional Ag SW development		5.81 MGD of additional GW development			1.61 MGD of additional WW capacity development		Assimilative Capacity exceeded in same segment of Hat Creek under permit capacity conditions		
	Preliminary Management Practices		1) Replacement of SW Ag demands with GW during dry years; 2) Ag conservation; 3) Small-scale storage in individual Ag ponds 4) Aquifer storage and recovery (ASR)		Permitted Capacity					Identify potential Point Sources; Identify Non-Point Source BMPs targeting landuse upstream of impairment	1) Cite TMDL implementation status for DO, FC or TWR; 2) Further develop specific MPs based on TMDL implementation plan recommendations 3) Resolve naturally low DO	
Council or Additional Coordination - Shared Resource		Lower Flint-Ochlockonee - New River in Suwannee River Basin, Pinetta Node; Upper Flint & Altamaha - Alapaha River in Suwannee River Basin, Statenville Node								Altamaha - Alapaha River		

Turner County



County	Demand Sector	WATER SUPPLY					WASTEWATER			WATER QUALITY		
		2010 Forecast Water Demand (MGD)	Increase in SW Demand from 2010 to 2050/Associated Planning Node	Permitted SW Withdrawal Capacity	Increase in GW Demand from 2010 to 2050	Permitted GW Withdrawal Capacity	2010 Forecast Wastewater Demand (MGD)	Increase in Wastewater Flows from 2010 to 2050	Permitted Wastewater Capacity (MGD)	Assimilative Capacity Limitations (DO)	Current Water Quality Impairments	TMDL Implementation Status
Turner	Municipal	1.17	0.00/Pinetta & Statenville	N/A	-0.01 (0 Public; -0.01 Self)	1.90	Septic 0.45 Centralized 0.68	Septic -0.01 Centralized 0	Centralized 1.28			
	Industrial	0.00	0.00/Pinetta & Statenville	N/A	0.00	0.00	0.00	0.00	0.00			
	Agricultural	25.54	2.42/Pinetta & Statenville		2.80							
	Total	26.71	2.42/Pinetta & Statenville		2.79	1.90	1.13	-0.01	1.28			
	Gaps		Yes, 2010 Ag SW use of 10.89 MGD at Pinetta & Statenville; Additional 2.42 MGD of 2050 Ag SW use at Pinetta & Statenville			None			None	Assimilative Capacity exceeded on some segments of Alapaha River under baseline conditions; confirmed by 303 (d) list	Impairments on 6 segments, including Alapaha River, for DO, FC or Bio M; Assessment pending for 1 segment; See Appendix A	TMDLs for DO are complete for 5 segments and FC TMDL complete for 1 segment; impairment cause is NP, M or UR
	Future Needs		2.42 MGD of additional Ag SW development		2.79 MGD of additional GW development			None		Assimilative Capacity exceeded on same segments of Alapaha River under permit capacity conditions		
	Preliminary Management Practices		1) Replacement of SW Ag demands with GW during dry years; 2) Ag conservation; 3) Small-scale storage in individual Ag ponds 4) Aquifer storage and recovery (ASR)		Permitted Capacity					Identify potential Point Sources; Identify Non-Point Source BMPs targeting landuse upstream of impairment	1) Cite TMDL implementation status for DO, FC and Bio M; 2) Further develop specific MPs based on TMDL implementation plan recommendations 3) Resolve naturally low DO	
	Council or Additional Coordination - Shared Resource		Lower Flint-Ochlockonee - New River in Suwannee River Basin, Pinetta Node; Upper Flint & Altamaha - Alapaha River in Suwannee River Basin, Statenville Node								Altamaha - Alapaha River	

Ware County



County	Demand Sector	WATER SUPPLY					WASTEWATER			WATER QUALITY		
		2010 Forecast Water Demand (MGD)	Increase in SW Demand from 2010 to 2050/Associated Planning Node	Permitted SW Withdrawal Capacity	Increase in GW Demand from 2010 to 2050	Permitted GW Withdrawal Capacity	2010 Forecast Wastewater Demand (MGD)	Increase in Wastewater Flows from 2010 to 2050	Permitted Wastewater Capacity (MGD)	Assimilative Capacity Limitations (DO)	Current Water Quality Impairments	TMDL Implementation Status
Ware	Municipal	4.02	0.00/Atkinson & Fargo	N/A	-0.39 (-0.33 Public; -0.06 Self)	7.40	Septic 1.54 Centralized 2.41	Septic -0.15 Centralized 0.89	Centralized 6.71			
	Industrial	0.55	0.00/Atkinson & Fargo	N/A	0.21	0.65	0.08	0.33	0.09			
	Agricultural	4.02	0.11/Atkinson & Fargo		0.44							
	Total	8.59	0.11/Atkinson & Fargo		0.27	8.05	4.03	1.07	6.80			
	Gaps		Yes, 2010 Ag SW use of 1.08 MGD, some of which is at Atkinson; Additional 0.11 MGD of 2050 Ag SW use, some of which is at Atkinson			No publicly-supplied gap; Industrial Gap occurs between 2020 and 2030; Gap at 2050 is 0.11 MGD			No Municipal Centralized Gap; Industrial WW Gap occurs between 2010 and 2020; Gap at 2050 is 0.32 MGD	None under baseline conditions	Impairments on 8 segments for DO, FC or TWR; Assessment pending for 2 segments; See Appendix A	TMDLs for DO are complete for 5 segments and FC TMDL complete for 2 segments; impairment cause is NP or UR
	Future Needs		0.11 MGD of additional Ag SW development		0.27 MGD of additional GW development			1.07 MGD of additional WW capacity development		Assimilative Capacity exceeded on segment of Cane Creek under permit capacity conditions		
	Preliminary Management Practices		1) Replacement of SW Ag demands with GW during dry years; 2) Ag conservation; 3) Regional surface storage in Satilla River Basin; 4) Small-scale storage in individual Ag ponds 5) Aquifer storage and recovery (ASR)			No gw application files found.				Identify potential Point Sources; Identify Non-Point Source BMPs targeting landuse upstream of impairment	1) Cite TMDL implementation status for DO, FC and TWR; 2) Further develop specific MPs based on TMDL implementation plan recommendations 3) Resolve naturally low DO	
Council or Additional Coordination - Shared Resource		Altamaha - Satilla River Basin, Atkinson Node								None - impairments originate and terminate in Suwannee-Satilla Region		

Appendix A

2008 Impaired Streams List within the Suwannee-Satilla Regional Water Planning Council Boundary

**Suwannee Satilla Regional Council
Non Supporting 303d List
Category 4a and 5
Streams and Lakes**

Ranking	Map ID	River Basin	County	Reach Name	Reach Location	Potential Cause	Waterbody Type	Criterion Violation	Notes	Violation Rank	Water Use	Water Use Rank	Category Tier	Category Tier Rank	Miles or Acres	Length Rank	Status Reports Obtained	Status Report Rank
LEVEL 1 REACHES																		
10	35	Satilla	Pierce/ Brantley/ Camden	Satilla River	Six miles d/s of Ga. Hwy. 15 to Bullhead Bluff	NP	Stream	TWR	TMDL completed TWR.	1	Fishing	1	4a	2	76	5	No	1
10	57	Suwannee	Berrien/ Atkinson/ Lanier/ Lowndes/ Echols	Alapaha River	U.S. Hwy. 129/Ga. Hwy. 11 to Stateline	NP	Stream	TWR	TMDL completed TWR.	1	Fishing	1	4a	2	102	5	No	1
9	12	Satilla	Bacon/ Ware/ Pierce	Little Hurricane Creek	Ga. Hwy. 32 to Hurricane Cr.	NP	Stream	DO, FC	TMDLs completed DO, FC.	2	Fishing	1	4a	2	22	3	No	1
9	29	Satilla	Jeff Davis/ Appling	Big Satilla Creek	Headwaters near Hazlehurst to Sweetwater Cr. near Baxley	UR	Stream	DO, FC	TMDL completed DO, FC.	2	Fishing	1	4a	2	34	3	No	1
9	63	Suwannee	Charlton/ Ware/ Clinch/ Echols	Suwannee River	Mainstem-Suwannee Canal to Stateline	NP	Stream	TWR, DO	TMDL completed TWR.	2	Fishing	1	4a,5	2	40	3	No	1
9	95	Suwannee	Thomas/ Brooks	Piscola Creek	Downstream Whitlock Branch @ Ozell Road to Okapilco Creek near Boston	NP	Stream	DO, FC	TMDL completed DO.	2	Fishing	1	4a,5	2	25	3	No	1
8	4	Ocmulgee	Wilcox/ Ben Hill	House Creek	Ball Creek to Little House Creek	NP	Stream	DO, pH, FC	TMDLs completed DO, pH, FC.	3	Fishing	1	4a	2	8	1	No	1
8	40	Satilla	Ware/ Pierce/ Brantley	Satilla River	U.S. Highway 84/Ga. Hwy. 38 to 6 miles downstream Hwy 15/121	UR	Stream	TWR	TMDL completed TWR.	1	Fishing	1	4a	2	23	3	No	1
8	47	St Marys	Charlton	N. Prong St. Marys River	Headwaters to Cedar Cr.	NP	Stream	DO, TWR	TMDLs completed DO, TWR.	2	Fishing	1	4a	2	19	2	No	1
8	62	Suwannee	Charlton/ Ware	Suwannee Canal	Okefenokee Swamp	NP	Stream	TWR	TMDL completed TWR.	1	Fishing	1	4a	2	27	3	No	1
8	73	Suwannee	Cook/ Berrien/ Lowndes	Withlacoochee River	New River to Bay Branch	NP	Stream	TWR	TMDL completed TWR.	1	Fishing	1	4a	2	23	3	No	1
8	82	Suwannee	Irwin/ Tift/ Berrien	Alapaha River	Sand Creek to U.S. Hwy. 129/Ga. Hwy. 11	NP	Stream	DO, TWR	TMDLs completed DO, TWR.	2	Fishing	1	4a	2	16	2	No	1
8	93	Suwannee	Lowndes/ Brooks	Withlacoochee River	Little River to Stateline	NP	Stream	TWR	TMDL completed TWR.	1	Fishing	1	4a	2	33	3	No	1
8	104	Suwannee	Turner/ Irwin	Sand Creek	Headwaters E. of Sycamore to Alapaha River	NP	Stream	DO, FC	TMDLs completed DO, FC.	2	Fishing	1	4a	2	14	2	No	1
8	108	Suwannee	Wilcox/ Ben Hill/ Turner/ Irwin	Alapaha River	U.S. Hwy. 280 to Sand Creek	NP	Stream	DO	TMDL completed DO.	1	Fishing	1	4a	2	29	3	No	1
8	56	Suwannee	Berrien	Withlacoochee River	Headwaters (Hardy Mill Creek) to New River	NP	Stream	TWR, FC	TMDL completed DO, TWR.	2	Fishing	1	4a,5	1.5	17	2	No	1
LEVEL 2 REACHES																		
7	7	Satilla	Atkinson	Pudding Creek	Park Bay to Satilla River N. of Pearson	NP	Stream	DO, FC	TMDLs completed DO, FC.	2	Fishing	1	4a	2	9	1	No	1
7	11	Satilla	Bacon	Hurricane Creek	Downstream Little Cr. to Ten Mile Cr. near Alma	NP	Stream	FC	TMDLs completed FC, DO.	1	Fishing	1	4a	2	20	2	No	1
7	24	Satilla	Coffee	Satilla River	Satilla Cr. to Reedy Cr. near Douglas	NP	Stream	DO	TMDL completed DO.	1	Fishing	1	4a	2	12	2	No	1
7	25	Satilla	Coffee	Seventeen Mile River	Twenty Mile Cr. N. of Douglas to Otter Cr. downstream Gen. Coffee St. Park	UR	Stream	DO, FC	TMDLs completed DO, FC.	2	Fishing	1	4a	2	7	1	No	1
7	26	Satilla	Coffee/ Atkinson/ Ware	Seventeen Mile River	Twentynine Mile Cr. to Satilla River	NP	Stream	DO	TMDL completed DO.	1	Fishing	1	4a	2	13	2	No	1
7	27	Satilla	Coffee/ Ware	Hog Creek	Hurricane Cr. to Satilla River S. of Nicholls near Bickley	NP	Stream	DO	TMDLs completed DO, FC.	1	Fishing	1	4a	2	15	2	No	1
7	36	Satilla	Pierce/ Wayne/ Brantley	Little Satilla River	Big Satilla Cr. to Sixty Foot Branch	NP	Stream	DO, FC	TMDLs completed DO, FC.	2	Fishing	1	4a	2	10	1	No	1
7	46	St Marys	Charlton	Corn House Creek	Upstream St. Marys River	NP	Stream	DO, FC	TMDLs completed DO, FC.	2	Fishing	1	4a	2	7	1	No	1

**Suwannee Satilla Regional Council
Non Supporting 303d List
Category 4a and 5
Streams and Lakes**

Ranking	Map ID	River Basin	County	Reach Name	Reach Location	Potential Cause	Waterbody Type	Criterion Violation	Notes	Violation Rank	Water Use	Water Use Rank	Category Tier	Category Tier Rank	Miles or Acres	Length Rank	Status Reports Obtained	Status Report Rank
7	48	St Marys	Charlton	Spanish Creek	Long Branch to St. Marys River	UR	Stream	DO, FC	TMDLs completed DO, FC.	2	Fishing	1	4a	2	4	1	No	1
7	59	Suwannee	Brooks	Okapilco Creek	SR 76, Quitman to Withlacoochee River	NP	Stream	DO, FC	TMDLs completed DO, FC.	2	Fishing	1	4a	2	5	1	No	1
7	66	Suwannee	Clinch	Suwannoochee Creek	Lees Bay to Suwannee River	NP	Stream	DO	TMDL completed DO, Cd.	1	Fishing	1	4a	2	11	2	No	1
7	68	Suwannee	Clinch/ Ware	Suwannee Creek	Headwaters to Little Suwannee Cr. near Manor	NP	Stream	DO	TMDL completed DO.	1	Fishing	1	4a	2	16	2	No	1
7	92	Suwannee	Lowndes	Withlacoochee River	Bay Branch to Little River	NP	Stream	FC, TWR	TMDLs completed FC, TWR.	2	Fishing	1	4a	2	9	1	No	1
7	106	Suwannee	Turner/Tift	Little River	Ashburn Branch W. of Sycamore to Big Branch	NP	Stream	DO	TMDL completed DO.	1	Fishing	1	4a	2	17	2	No	1
7	60	Suwannee	Brooks	Pride Branch (Formerly Negro Branch)	Headwaters to Piscola Cr., Quitman	NP	Stream	FC, pH	TMDL completed DO, FC.	2	Fishing	1	4a,5	2	9	1	No	1
7	94	Suwannee	Thomas/ Brooks	Mule Creek	Headwaters to Reedy Cr. near Pavo	NP	Stream	DO, FC	TMDL completed DO.	2	Fishing	1	4a,5	2	8	1	No	1
6	2	Ocmulgee	Ben Hill	Otter Creek	~1.7 mi u/s GA 182 (Old River Rd) to Ocmulgee River	NP	Stream	Bio F	TMDL completed Bio(F).	1	Fishing	1	4a	2	4	1	No	1
6	3	Ocmulgee	Ben Hill	Sturgeon Creek	Dickson Mill Creek to Ocmulgee River	NP	Stream	Bio F	TMDL completed Bio(F).	1	Fishing	1	4a	2	6	1	No	1
6	8	Satilla	Atkinson	Satilla River	Pudding Cr. to Smut Br. near Pearson	NP	Stream	FC	TMDLs completed DO, FC.	1	Fishing	1	4a	2	8	1	No	1
6	13	Satilla	Brantley	Big Creek	South Prong Big Cr. to Satilla River	NP	Stream	DO	TMDL completed DO.	1	Fishing	1	4a	2	5	1	No	1
6	19	Satilla	Coffee	Broxton Creek	Seven Cr. to Seventeen Mile River near Broxton	NP	Stream	DO	TMDL completed DO, FC.	1	Fishing	1	4a	2	6	1	No	1
6	21	Satilla	Coffee	Hog Creek	Downstream CR185 to Hurricane Cr. near Nicholls	UR	Stream	FC	TMDL completed FC.	1	Fishing	1	4a	2	10	1	No	1
6	23	Satilla	Coffee	Roses Creek	Upstream Ga. Hwy. 206 to Seventeen Mile River near Broxton	NP	Stream	FC	TMDLs completed FC, DO.	1	Fishing	1	4a	2	9	1	No	1
6	28	Satilla	Irwin/ Coffee	Satilla Creek	Hunters Cr. E. of Ocilla to Satilla River	NP	Stream	DO	TMDLs completed DO, FC.	1	Fishing	1	4a	2	7	1	No	1
6	38	Satilla	Ware	City Drainage Canal	Trib. to Satilla River, Waycross	UR	Stream	FC	TMDL completed FC.	1	Fishing	1	4a	2	3	1	No	1
6	45	St Marys	Charlton	Boone Creek	Upstream St. Marys River	NP	Stream	DO	TMDL completed DO.	1	Fishing	1	4a	2	6	1	No	1
6	49	Suwannee	Ben Hill	Turkey Branch	Headwaters to Willacoochee River downstream Fitzgerald	M	Stream	FC	TMDLs completed FC, DO, TWR, Cd, Cu, Pb, Zn.	1	Fishing	1	4a	2	8	1	No	1
6	55	Suwannee	Berrien	Tributary to Withlacoochee River	Upstream Morris Pond, Nashville	NP	Stream	DO	TMDL completed DO.	1	Fishing	1	4a	2	2	1	No	1
6	58	Suwannee	Berrien/ Lowndes	Cat Creek	Beaverdam Cr. downstream SR 37 to Withlacoochee River near Ray City	NP	Stream	DO	TMDL completed DO.	1	Fishing	1	4a	2	8	1	No	1
6	65	Suwannee	Clinch	Cane Creek	Rooty Branch to Okeefenokee Swamp near Homerville	NP	Stream	DO	TMDL completed DO.	1	Fishing	1	4a	2	6	1	No	1
6	69	Suwannee	Colquitt	Ty Ty Creek	Tucker Cr. to Warrior Cr. near Omega	NP	Stream	DO	TMDL completed DO.	1	Fishing	1	4a	2	9	1	No	1
6	70	Suwannee	Cook	Bear Creek	City of Adel Lake to Withlacoochee River	M	Stream	FC	TMDLs completed FC, DO.	1	Fishing	1	4a	2	4	1	No	1
6	71	Suwannee	Cook	Giddens Mills Creek	U/S U.S. Hwy. 41/SR 7 to Bear Cr., Adel	UR	Stream	DO	TMDL completed DO.	1	Fishing	1	4a	2	1	1	No	1
6	77	Suwannee	Echols	Alapahoochee River	Confluence of Mud and Grand Bay Cr. to Stateline	NP	Stream	FC	TMDL completed TWR.	1	Fishing	1	5	1	11	2	No	1

**Suwannee Satilla Regional Council
Non Supporting 303d List
Category 4a and 5
Streams and Lakes**

Ranking	Map ID	River Basin	County	Reach Name	Reach Location	Potential Cause	Waterbody Type	Criterion Violation	Notes	Violation Rank	Water Use	Water Use Rank	Category Tier	Category Tier Rank	Miles or Acres	Length Rank	Status Reports Obtained	Status Report Rank
6	80	Suwannee	Irwin	Little Brushy Creek	Stump Cr. to Reedy Cr. S. of Ocilla	NP	Stream	FC	TMDLs completed FC, DO.	1	Fishing	1	4a	2	4	1	No	1
6	81	Suwannee	Irwin	Reedy Creek	Little Creek (upstream U.S. Hwy. 319/SR 35) to Little Brushy Cr., S. of Ocilla	NP	Stream	DO	TMDL completed DO.	1	Fishing	1	4a	2	10	1	No	1
6	89	Suwannee	Lowndes	Franks Creek	St. Rt. S1780 to Little River near Hahira	UR	Stream	FC	TMDLs completed FC & DO.	1	Fishing	1	4a	2	9	1	No	1
6	90	Suwannee	Lowndes	Mud Creek (also known as Mud Swamp Creek)	D/S Valdosta Mud Cr. WPCP to Alapahoochee River	UR	Stream	FC	TMDL completed FC.	1	Fishing	1	4a	2	10	1	No	1
6	91	Suwannee	Lowndes	Two Mile Branch	Headwaters to Sugar Cr., Valdosta	UR	Stream	FC	TMDL completed FC.	1	Fishing	1	4a	2	2	1	No	1
6	96	Suwannee	Tift	New River	Westside Branch to Gum Cr. downstream Tifton	M, UR	Stream	FC	TMDLs completed FC, DO.	1	Fishing	1	4a	2	5	1	No	1
6	97	Suwannee	Tift	Southside Branch	Tributary to New River, Tifton	UR	Stream	FC	TMDL completed FC.	1	Fishing	1	4a	2	1	1	No	1
6	98	Suwannee	Tift	Westside Branch	Tributary to Little River, Tifton	UR	Stream	FC	TMDL completed FC.	1	Fishing	1	4a	2	2	1	No	1
6	111 (Lake)	Suwannee (Lake)	Lanier	Banks Lake	Lanier County	NP	Lake	TWR	TMDL completed TWR.	1	Fishing	1	4a	2	2900	2	NONE	0
6	101	Suwannee	Turner	Little River	Newell Branch, d/s Hwy. 32 to Ashburn Branch, W. of Sycamore	NP	Stream	DO	TMDL completed DO.	1	Fishing	1	4a	2	4	1	No	1
6	103	Suwannee	Turner	West Fork Deep Creek	Downstream SR S1798 to downstream SR 159 N. of Ashburn	NP	Stream	DO	TMDL completed DO.	1	Fishing	1	4a	2	1	1	No	1
6	107	Suwannee	Ware	Greasy Branch	U.S. Hwy. 84/SR38 to Okeefenokee Swamp	NP	Stream	DO	TMDL completed DO.	1	Fishing	1	4a	2	10	1	No	1
6	109	Suwannee	Worth/ Tift	Ty Ty Creek	Little Cr. near Ty Ty to Tucker Cr. near Omega	NP	Stream	FC	TMDLs completed FC, DO.	1	Fishing	1	4a	2	10	1	No	1
LEVEL 3 REACHES																		
5	14	Satilla	Brantley	Buffalo Creek	Little Buffalo Cr. to Satilla River	NP	Stream	FC	TMDL completed DO.	1	Fishing	1	5	1	6	1	No	1
5	34	Satilla	Pierce	Alabaha River	Tan Trough Cr. to Satilla River	NP	Stream	FC	None	1	Fishing	1	5	1	12	2	No	0
5	72	Suwannee	Cook	Morrison Creek	Adel	NP	Stream	FC	TMDL completed DO.	1	Fishing	1	5	1	2	1	No	1
5	110 (Lake)	Suwannee (Lake)	Colquitt/ Cook	Reed Bingham Lake	Reed Bingham State Park	NP	Lake	TWR	None	1	Fishing	1	5	1	179	2	NONE	0
4	6	Satilla	Atkinson	Little Red Bluff Creek	Headwaters to Red Bluff Creek	NP, M	Stream	DO	None	1	Fishing	1	5	1	8	1	No	0
4	20	Satilla	Coffee	Dry Creek	Headwaters to Hurricane Creek	NP	Stream	FC	None	1	Fishing	1	5	1	6	1	No	0
4	22	Satilla	Coffee	Hurricane Creek	Bear Creek to Dry Creek	NP, UR	Stream	FC	None	1	Fishing	1	5	1	4	1	No	0
4	67	Suwannee	Clinch	Tatum Creek	Dickerson Millpond to Tower Road	NP	Stream	FC	None	1	Fishing	1	5	1	6	1	No	0
4	100	Suwannee	Turner	Lime Sink Creek	Headwaters to Daniels Creek	NP	Stream	Bio M	None	1	Fishing	1	5	1	4	1	No	0
4	102	Suwannee	Turner	Snapfinger Creek	Headwaters to Deep Creek	NP	Stream	Bio M	None	1	Fishing	1	5	1	6	1	No	0
4	105	Suwannee	Turner/ Worth	Daniels Creek	Headwaters to Big Branch	NP	Stream	Bio M	None	1	Fishing	1	5	1	8	1	No	0

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Ranking	Map ID	River Basin	County	Reach Name	Reach Location	Waterbody Type	Criterion Violation	Notes	Violation Rank	Water Use	Water Use Rank	Category Tier	Category Tier Rank	Miles or Acres	Length Rank	Status Reports Obtained	Status Report Rank
LEVEL 1 REACHES																	
3	30	Satilla	Jeff Davis/ Coffee/ Bacon	Little Hurricane Creek	Headwaters to Ga Hwy 32	Stream	Assessment Pending	EPD needs to determine the "natural DO" for the area before a use assessment is made. It is EPD's goal to determine the "natural DO" by the end of 2011.	0	Fishing	1	3	0	17	2	NONE	0
LEVEL 2 REACHES																	
2	1	Ocmulgee	Ben Hill	Tributary to Red Bluff Creek	Headwaters to Red Bluff Creek	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	4	1	NONE	0
2	5	Satilla	Atkinson	Pudding Creek	Ruffin Creek to Park Bay Creek	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	4	1	NONE	0
2	9	Satilla	Bacon	Big Branch	Mill Branch to Little Hurricane Creek	Stream	Assessment Pending	EPD needs to determine the "natural DO" for the area before a use assessment is made. It is EPD's goal to determine the "natural DO" by the end of 2011.	0	Fishing	1	3	0	4	1	NONE	0
2	10	Satilla	Bacon	Briar Creek	Headwaters to Tenmile Creek	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	9	1	NONE	0
2	15	Satilla	Coffee	Cat Creek	Headwaters to Seventeen Mile River	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	6	1	NONE	0
2	16	Satilla	Coffee	Dry Creek	Headwaters to Hurricane Creek	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	9	1	NONE	0
2	17	Satilla	Coffee	Indian Creek	Headwaters to Satilla River	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	8	1	NONE	0
2	18	Satilla	Coffee	Tributary to Hurricane Creek	Headwaters to Hurricane Creek	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	6	1	NONE	0
2	31	Satilla	Pierce	Hackleberry Creek	Headwaters to Satilla River	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	6	1	NONE	0
2	32	Satilla	Pierce	Otter Creek	Long Branch to Griffin Branch	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	2	1	NONE	0
2	33	Satilla	Pierce	Tributary to Satilla River	Headwaters to Satilla River	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	4	1	NONE	0
2	37	Satilla	Ware	Fullwood Creek	Headwaters to Satilla River	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	7	1	NONE	0
2	39	Satilla	Ware/ Brantley	Mill Creek	Headwaters to Big Creek	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	6	1	NONE	0
2	41	St Marys	Charlton	Clay Branch	Headwaters to Spanish Creek	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	4	1	NONE	0
2	42	St Marys	Charlton	Hatcher's Branch	Headwaters to Spanish Creek	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	4	1	NONE	0
2	43	St Marys	Charlton	Spanish Creek	Little Spanish Creek to Long Branch	Stream	Assessment Pending	EPD needs to determine the "natural DO" for the area before a use assessment is made. It is EPD's goal to determine the "natural DO" by the end of 2011.	0	Fishing	1	3	0	6	1	NONE	0
2	44	St Marys	Charlton	Tributary to St. Marys River	Headwaters to St. Marys River	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	3	1	NONE	0

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2	50	Suwannee	Ben Hill/ Irwin	Brushy Creek	Headwaters to Willacoochee Creek	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	8	1	NONE	0
2	51	Suwannee	Berrien	Tributary to Alapaha River	Headwaters to Alapaha River	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	5	1	NONE	0
2	52	Suwannee	Berrien	Tributary to Batterbee Branch	Headwaters to Batterbee Branch	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	2	1	NONE	0
2	53	Suwannee	Berrien	Tributary to the Alapaha River	Headwaters to the Alapaha River	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	5	1	NONE	0
2	54	Suwannee	Berrien	Tributary to the Alapaha River	Headwaters to the Alapaha River	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	6	1	NONE	0
2	61	Suwannee	Brooks/ Lowndes	Tributary to Withlacoochee River #1	Headwaters to Withlacoochee River	Stream	Assessment Pending	The water is being placed in Category 3 because macroinvertebrate data are currently under evaluation for listing assessment purposes. A listing decision should be made by 2010.	0	Fishing	1	3	0	2	1	NONE	0
2	64	Suwannee	Clinch	Camp Creek	Headwaters to Walker Creek	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	4	1	NONE	0
2	74	Suwannee	Crisp/ Turner	Tributary to West Fork Deep Creek	Headwaters to West Fork Deep Creek	Stream	Assessment Pending	The water is being placed in Category 3 because macroinvertebrate data are currently under evaluation for listing assessment purposes. A listing decision should be made by 2010.	0	Fishing	1	3	0	3	1	NONE	0
2	75	Suwannee	Echols	Bill Branch	Headwaters to Big Branch	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	2	1	NONE	0
2	76	Suwannee	Echols	Tributary to Alapaha River	Headwaters to Alapaha River	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	3	1	NONE	0
2	78	Suwannee	Irwin	Little Creek	Headwaters to Reedy Creek	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	6	1	NONE	0
2	79	Suwannee	Irwin	Tributary to Reedy Creek	Headwaters to Reedy Creek	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	4	1	NONE	0
2	83	Suwannee	Lanier	Moore Branch	Headwaters to Alapaha River	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	4	1	NONE	0
2	84	Suwannee	Lanier	Reedy Creek	Headwaters to Alapaha River	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	5	1	NONE	0
2	85	Suwannee	Lowndes	Meetinghouse Branch	Headwaters to Grand Bay Creek	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	5	1	NONE	0
2	86	Suwannee	Lowndes	Otter Creek	Headwaters to Grand Bay Creek	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	6	1	NONE	0
2	87	Suwannee	Lowndes	Tributary to Withlacoochee River #2	Headwaters to Withlacoochee River	Stream	Assessment Pending	The water is being placed in Category 3 because macroinvertebrate data are currently under evaluation for listing assessment purposes. A listing decision should be made by 2010.	0	Fishing	1	3	0	5	1	NONE	0
2	88	Suwannee	Lowndes	Ty Ty Branch	Headwaters to Ray Branch	Stream	Assessment Pending	The water is being placed in Category 3 because more macroinvertebrate data need to be collected in this area of the State to develop metrics for assessment purposes.	0	Fishing	1	3	0	2	1	NONE	0
2	99	Suwannee	Turner	Wolf Creek	Headwaters to Deep Creek	Stream	Assessment Pending	The water is being placed in Category 3 because macroinvertebrate data are currently under evaluation for listing assessment purposes. A listing decision should be made by 2010.	0	Fishing	1	3	0	6	1	NONE	0