

Upper Oconee Supplemental Document: Comparison of Water and Wastewater Forecasts to Existing Permits and Planned Projects

Introduction

The purpose of this document is to calculate shortages or surpluses in facilities to meet public supplied municipal and industrial water and wastewater forecasts. It contains tables and graphs summarizing the existing municipal and industrial permit limits and 2050 water and wastewater forecasts by county, as well as the resulting shortages or surpluses in municipal and industrial permitting. It also includes a listing of potential projects that are identified as “planned” projects that could be used to meet some of the 2050 forecasted water/wastewater needs.

The 2050 forecasted water demand is composed of the portion of annual average demand supplied with surface and ground water in the municipal, industrial, and agricultural categories. It does not include self-supplied municipal demand since these are not accounted for with permits. For additional information on forecasted water demands, see the “Upper Oconee Supplemental Document: Municipal and Industrial Water and Wastewater Forecast”.

The 2050 forecasted wastewater flow is composed of the portion of annual average flow that goes to municipal centralized systems with permits for point source discharges (NPDES) and land application systems (LAS) and industrial facilities. It does not include septic systems, since these are not accounted for with permits. For additional information on forecasted wastewater flows, see the “Upper Oconee Supplemental Document: Municipal and Industrial Water and Wastewater Forecast”.

The permitted water withdrawals are composed of the current monthly average permitted limits for both surface water and ground water for municipal, industrial, and agricultural categories. In addition, it includes current water “purchases” from other counties. Municipal and industrial permit limits come from the GAEPD permit database. Because the purpose of this document is to evaluate shortages or surpluses in municipal and industrial permitting only, the agricultural permits were artificially set to be the same as the 2050 agricultural water demand forecast. This method is preferable to leaving agricultural demand out of the forecast, especially when looking at counties with significant agricultural water demands. For additional information on agricultural forecast and permit capacities, see the “Upper Oconee Supplemental Document: Agricultural Water Forecast”.

The permitted wastewater treatment limit is comprised of the current maximum monthly average permit limits for centralized systems including point source discharges (NPDES) and land application systems (LAS) from municipal and industrial sources. It does not include septic systems. Permit limits come from the GAEPD permit database.

Region Summary

EXHIBIT 1:
UPPER OCONEE COMPARISON OF PERMITTED CAPACITIES AND 2050 FORECASTED DEMAND SUMMARY

COUNTY	WATER (MGD)			WASTEWATER (MGD)		
	PERMITTED WITHDRAWAL LIMIT ^{a,b,c}	2050 FORECASTED DEMAND ^a	SHORTAGE(-) SURPLUS(+) ^d	PERMITTED TREATMENT LIMIT ^e	2050 FORECASTED FLOW ^e	SHORTAGE(-) SURPLUS(+) ^d
Baldwin	19.15	10.83	+8.32	10.50	3.85	+6.65
Barrow	19.40	32.36	-12.96	8.92	21.33	-12.41
Clarke	32.41	34.51	-2.10	28.17	28.33	-0.16
Greene	8.15	8.29	-0.14	2.08	2.59	-0.51
Hancock	2.27	1.86	+0.41	0.20	0.02	+0.18
Jackson	31.69	25.03	+6.66	7.25	15.73	-8.48
Laurens	46.93	36.21	+10.72	22.26	22.90	-0.64
Morgan	9.05	10.86	-1.81	2.00	1.69	+0.31
Oconee	31.28	23.03	+8.25	2.30	9.22	-6.92
Putnam	6.51	6.18	+0.33	1.84	1.64	+0.20
Walton	52.72	29.80	+22.92	6.84	7.08	-0.24
Washington	43.77	43.56	+0.21	6.52	42.65	-36.13*
Wilkinson	39.07	28.76	+10.31	0.79	35.96	-35.17*
Grand Total	342.40	291.28	+51.12	99.67	192.99	-93.32

^a- Includes surface and ground water from municipal and industrial sources, does not include self-supply water.
^b- Includes purchases from outside the county, quantity and outside source detailed in each County's section of this document (when applicable).
^c- Includes an artificial agricultural quantity that is in place to cancel out the agricultural demand included in the forecast. Quantity detailed in each County's Section of this document (when applicable). See Introduction paragraph for more information on the agricultural forecast and artificial permit.
^d- Indicative of the shortage/surplus of municipal and industrial sources only.
^e- Includes land application systems (LAS) and point source discharges (NPDES) from municipal and industrial sources, does not include septic.
 *-Stone/clay industrial discharge permits typically do not have flow-based limits, so the wastewater gap may be misleading in the indicated counties. See County's section for more details.

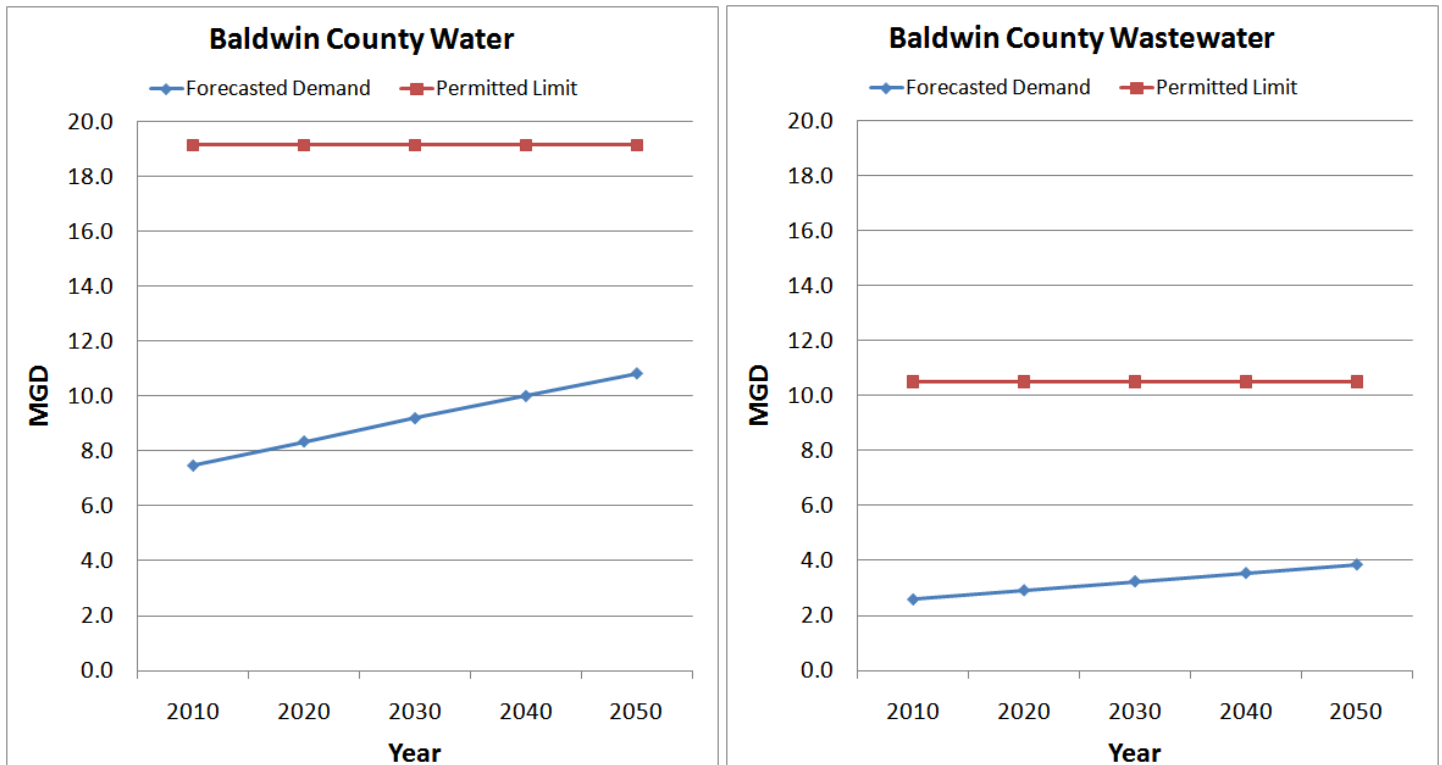
Baldwin County

Gap Summary

EXHIBIT 2:
BALDWIN COUNTY COMPARISON OF PERMITTED LIMIT AND 2050 FORECASTED DEMAND/FLOW

WATER (MGD)			
PERMIT TYPE	PERMITTED WITHDRAWAL LIMIT	2050 FORECASTED DEMAND	SURPLUS (+) SHORTAGE (-)
Surface Water	18.77	10.82	+7.95
Ground Water	0.38	0.12	+0.26
Total	19.15	10.83	+8.32
WASTEWATER (MGD)			
PERMIT TYPE	PERMITTED TREATMENT LIMIT	2050 FORECASTED FLOW	SURPLUS (+) SHORTAGE (-)
NPDES	10.50	3.85	+6.65
LAS	0.00	0.00	+0.00
Total	10.50	3.85	+6.65

EXHIBIT 3:
BALDWIN COUNTY COMPARISON OF PERMITTED LIMIT AND FORECASTED DEMAND/FLOW



Existing Permits

Water

EXHIBIT 4:
BALDWIN COUNTY EXISTING WATER PERMITS

PERMIT	PERMITTED WITHDRAWAL LIMIT (MGD)	TYPE	PERMIT NO.
Surface Water Permits			
Milledgeville, City of	12.44	Municipal	005-0391-02
Milledgeville, City of	3.00	Municipal	005-0391-03
Sinclair Water Authority- Lake Sinclair (Putnam County)	3.00*	Municipal	117-0390-06
Agricultural(Crop irrigation, livestock, golf, nursery)	0.33	Agricultural	N/A
Surface Water Total	18.77		
Ground Water Permits			
T & S Hardwoods, Inc.	0.13	Industrial	005-0001
Standard Sand & Silica Co - Ivey Sand Mine	0.25	Industrial	005-0002
Ground Water Total	0.38		
Existing Permitted Limit Total	19.15		
*-Sinclair water authority is evenly split between Baldwin and Putnam Counties. The actual permit limit is 6.65 MGD, but the current facility capacity is only 6 MGD.			

Wastewater

EXHIBIT 5:
BALDWIN COUNTY EXISTING WASTEWATER PERMITS

PERMIT	PERMITTED TREATMENT LIMIT (MGD)	TYPE	PERMIT NO.
NPDES Point Source Permits			
Milledgeville WPCP	10.50	Municipal	GA0030775
Georgia College - Lake Laurel	0.002	Municipal	GA0031593
NPDES Total	10.50		
Existing Permitted Limit Total	10.50		

Planned Projects

Water

EXHIBIT 6:
BALDWIN COUNTY PLANNED WATER PROJECTS

PLANNED PROJECTS	NEW/ ADD. WITHDRAWAL LIMIT (MGD)	NEW/ MOD. TO EXISTING	COMMENTS
Surface Water			
Sinclair Water Authority- Lake Sinclair (Putnam County)	2.00	Modification	This facility has the potential to expand out to 10 MGD, where the capacity is split between Baldwin and Putnam (5MGD each).
Surface Water Total	2.00		
Total New/Additional Limit	2.00		

Barrow County

Gap Summary

EXHIBIT 7:
BARROW COUNTY COMPARISON OF PERMITTED LIMIT AND 2050 FORECASTED DEMAND/FLOW

WATER (MGD)			
PERMIT TYPE	PERMITTED WITHDRAWAL LIMIT	2050 FORECASTED DEMAND	SURPLUS (+) SHORTAGE (-)
Surface Water	18.80	29.37	-10.57
Ground Water	0.60	2.99	-2.39
Total	19.40	32.36	-12.96
WASTEWATER (MGD)			
PERMIT TYPE	PERMITTED TREATMENT LIMIT	2050 FORECASTED FLOW	SURPLUS (+) SHORTAGE (-)
NPDES	6.10	19.97	-13.87
LAS	2.82	1.36	+1.46
Total	8.92	21.33	-12.41

EXHIBIT 8:
BARROW COUNTY COMPARISON OF PERMITTED LIMIT AND FORECASTED DEMAND/FLOW

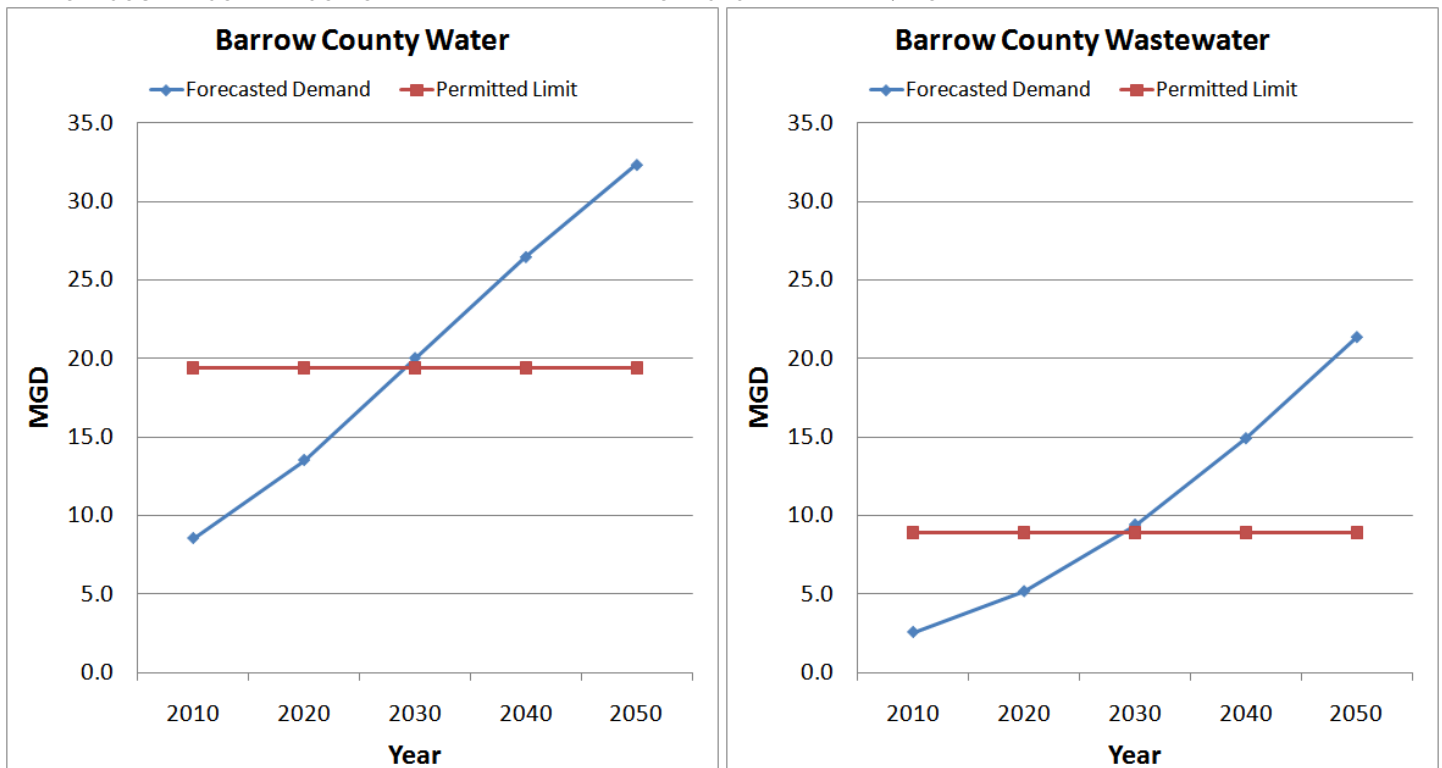
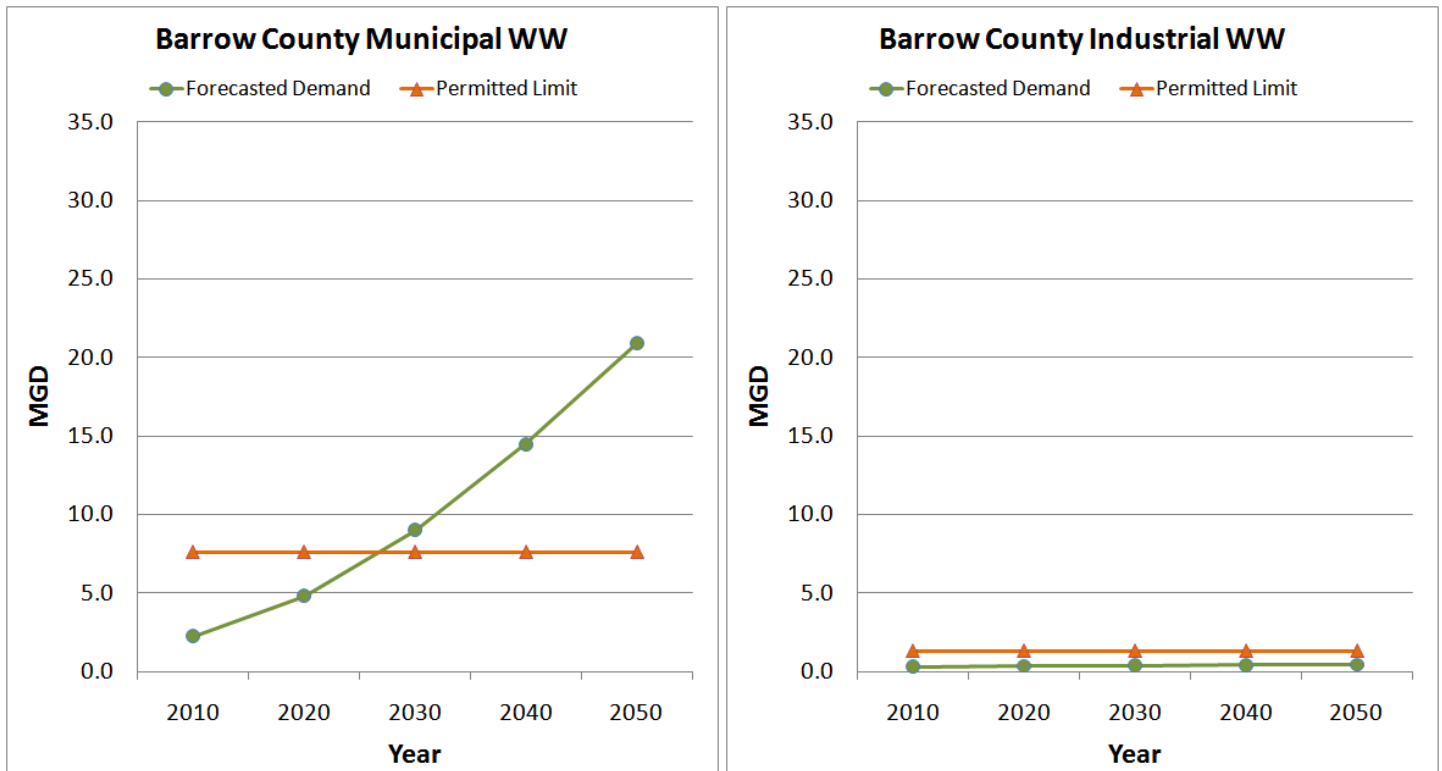


EXHIBIT 9:
BARROW COUNTY COMPARISON OF PERMITTED LIMIT AND FORECASTED FLOW-WASTEWATER SPLIT



Existing Permits

Water

EXHIBIT 10:
BARROW COUNTY EXISTING WATER PERMITS

PERMIT	PERMITTED WITHDRAWAL LIMIT (MGD)	TYPE	PERMIT NO.
Surface Water Permits			
Winder, City Of	5.10	Municipal	007-0303-01
Statham, City Of	0.80	Municipal	007-0304-04
Statham, City Of	0.14	Municipal	007-0304-07
Purchase from Gwinnett County	0.51	Municipal	N/A
Upper Oconee Basin Water Authority- Bear Creek WTP (Jackson County)	11.00*	Municipal	078-0304-06
Agricultural(Crop irrigation, livestock, golf, nursery)	1.25	Agricultural	N/A
Surface Water Total	18.80		
Ground Water Permits			
Harrison Poultry, Inc.	0.60	Industrial	007-0001
Ground Water Total	0.60		
Existing Permitted Limit Total	19.40		
*Actual Permit limit is 58 MGD, but this permit is split between Jackson, Clarke, Oconee, and Barrow County. This value represents the portion allocated to Barrow County.			

Wastewater

EXHIBIT 11:
BARROW COUNTY EXISTING WASTEWATER PERMITS

PERMIT	PERMITTED TREATMENT LIMIT (MGD)	TYPE	PERMIT NO.
NPDES Point Source Permits			
Martin Marietta Aggregates - Auburn Quarry	NA	Industrial	GA0037028
Winder - Marburg Creek WPCP	0.60	Municipal	GA0023191
Barrow County	1.50	Municipal	GA0038733
Winder Cedar Creek	4.00	Municipal	GA0038776
NPDES Total	6.10		
LAS Land Application Permits			
Harrison Poultry	1.30	Industrial	GA01-532
Stepan Company	NA	Industrial	GA02-264
Robinson Farm - Rhodia	NA	Industrial	GA03-674
Barrow County - Barber Creek WRF/LAS	0.15	Municipal	GA02-018
Winder - Marburg Creek Reuse	0.90	Municipal	GA02-158
Barrow County Board of Commissioners	0.45	Municipal	GA02-271
Barrow Co. Schools - Bethlehem Elementary School	0.02	Municipal	GA03-942
LAS Total	2.82		
Existing Permitted Limit Total	8.92		

Planned Projects

Water

Planning for a reservoir, but a permit has not been applied for yet.

Wastewater

EXHIBIT 12:
BARROW COUNTY PLANNED WASTEWATER PROJECTS

PLANNED PROJECTS	NEW/ ADD. TREATMENT LIMIT (MGD)	NEW/ MOD. TO EXISTING	COMMENTS
NPDES Point Source			
Barrow County Tanners Bridge	5.00	New	Permit (GA0039314) in effect 10/01/10, but will not be completed until later date. Will take LAS permit GA02-271 out of service when completed.
NPDES Total	5.00		
Total New/Additional Limit	4.55	Includes loss of 0.45 MGD of LAS limit	

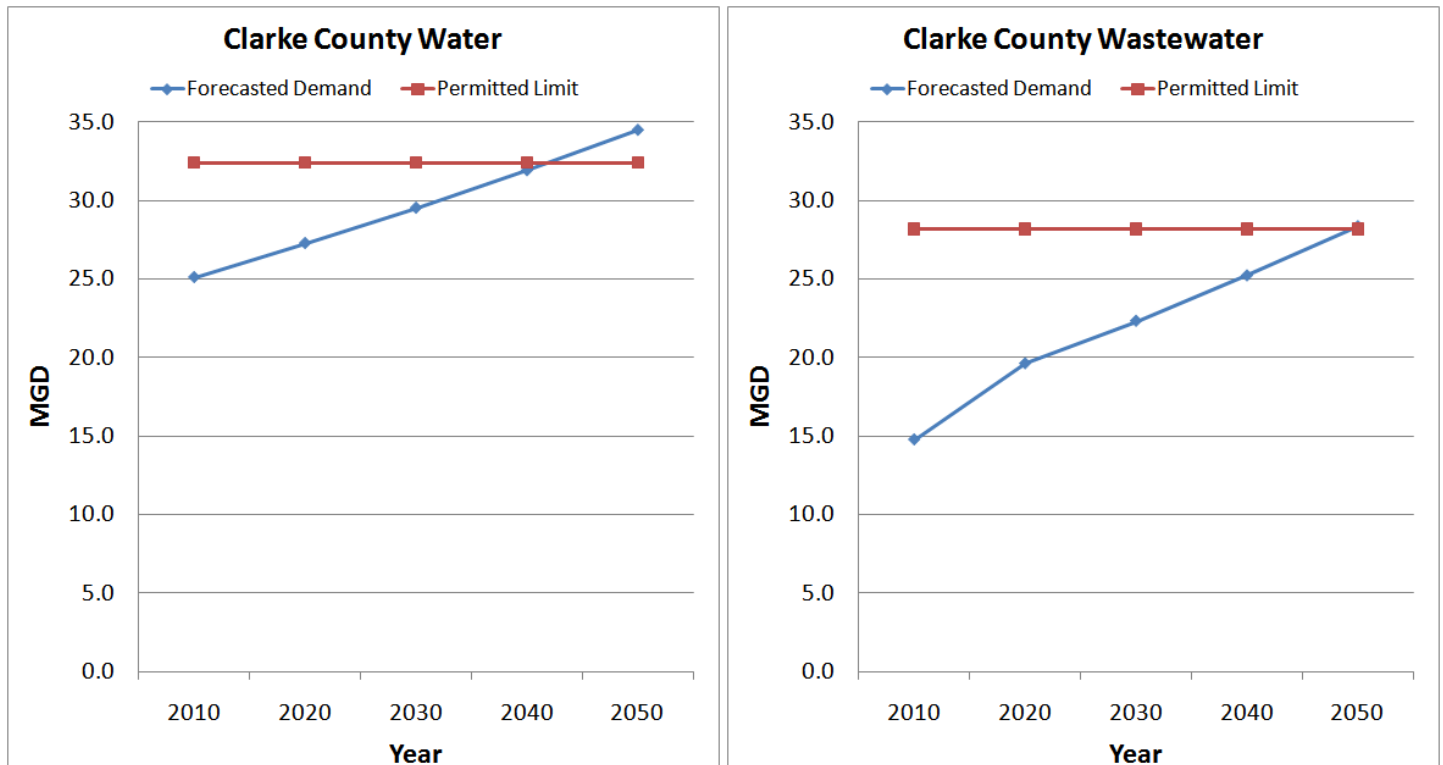
Athens-Clarke County

Gap Summary

EXHIBIT 13:
ATHENS-CLARKE COUNTY COMPARISON OF PERMITTED LIMIT AND 2050 FORECASTED DEMAND/FLOW

WATER (MGD)			
PERMIT TYPE	PERMITTED WITHDRAWAL LIMIT	2050 FORECASTED DEMAND	SURPLUS (+) SHORTAGE (-)
Surface Water	31.98	33.81	-1.83
Ground Water	0.43	0.70	-0.27
Total	32.41	34.51	-2.10
WASTEWATER (MGD)			
PERMIT TYPE	PERMITTED TREATMENT LIMIT	2050 FORECASTED FLOW	SURPLUS (+) SHORTAGE (-)
NPDES	28.16	28.33	-0.17
LAS	0.01	0.00	+0.01
Total	28.17	28.33	-0.16

EXHIBIT 14:
ATHENS-CLARKE COUNTY COMPARISON OF PERMITTED LIMIT AND FORECASTED DEMAND/FLOW



Existing Permits

Water

EXHIBIT 15:
ATHENS-CLARKE COUNTY EXISTING WATER PERMITS

PERMIT	PERMITTED WITHDRAWAL LIMIT (MGD)	TYPE	PERMIT NO.
Surface Water Permits			
Athens-Clarke Co. Public Utilities	28.00*	Municipal	*
Agricultural(Crop irrigation, livestock, golf, nursery)	3.98	Agricultural	N/A
Surface Water Total	31.98		
Ground Water Permits			
Agricultural(Crop irrigation, livestock, golf, nursery)	0.43	Agricultural	N/A
Ground Water Total	0.43		
Existing Permitted Limit Total	32.41		
*- This represents a combined limit that must not be exceeded from the North Oconee Permit, Middle Oconee River Permit, and an allocation from Bear Creek Reservoir (Permit #s 029-0301-03, 029-0304-02, and 078-0304-06 respectively).			

Wastewater

EXHIBIT 16:
ATHENS-CLARKE COUNTY EXISTING WASTEWATER PERMITS

PERMIT	PERMITTED TREATMENT LIMIT (MGD)	TYPE	PERMIT NO.
NPDES Point Source Permits			
Rockwell Automation Reliance Electric	NA	Industrial	GA0032875
Hanson Aggregates SE	NA	Industrial	GA0046132
Blue Circle Materials	NA	Industrial	GA0047651
Athens-Clarke County - North Oconee WPCP	14.00	Municipal	GA0021725
Athens-Clarke County - Middle Oconee WPCP	10.00	Municipal	GA0021733
Athens-Clarke County - Cedar Creek WPCP (Oconee County)	4.000	Municipal	GA0034584
Country Corners MHP	0.06	Municipal	GA0023060
Hallmark Mobile Home Estate	0.06	Municipal	GA0030236
Pinewood Estates MHP	0.04	Municipal	GA0034223
NPDES Total	28.16		
LAS Land Application Permits			
INVISTA S.A.R.L	0.003	Industrial	GA01-405
University Of GA Driftmier LAS	0.01	Municipal	GA02-191
LAS Total	0.01		
Existing Permitted Limit Total	28.17		

Planned Projects

No planned projects reported to date.

Greene County

Gap Summary

EXHIBIT 17:
GREENE COUNTY COMPARISON OF PERMITTED LIMIT AND 2050 FORECASTED DEMAND/FLOW

WATER (MGD)			
PERMIT TYPE	PERMITTED WITHDRAWAL LIMIT	2050 FORECASTED DEMAND	SURPLUS (+) SHORTAGE (-)
Surface Water	6.73	6.72	+0.01
Ground Water	1.42	1.57	-0.15
Total	8.15	8.29	-0.14
WASTEWATER (MGD)			
PERMIT TYPE	PERMITTED TREATMENT LIMIT	2050 FORECASTED FLOW	SURPLUS (+) SHORTAGE (-)
NPDES	1.45	1.26	+0.19
LAS	0.63	1.33	-0.70
Total	2.08	2.59	-0.51

EXHIBIT 18:
GREENE COUNTY COMPARISON OF PERMITTED LIMIT AND FORECASTED DEMAND/FLOW

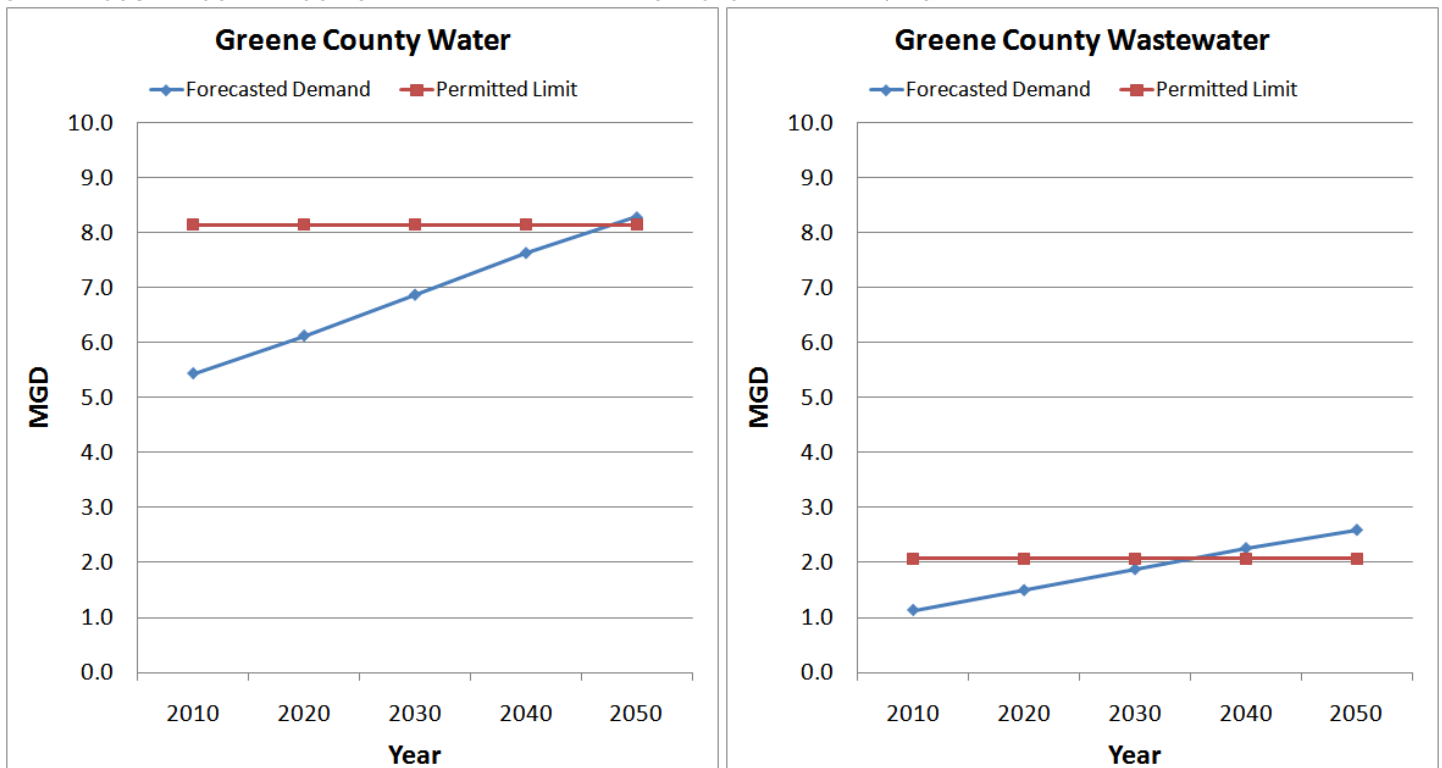
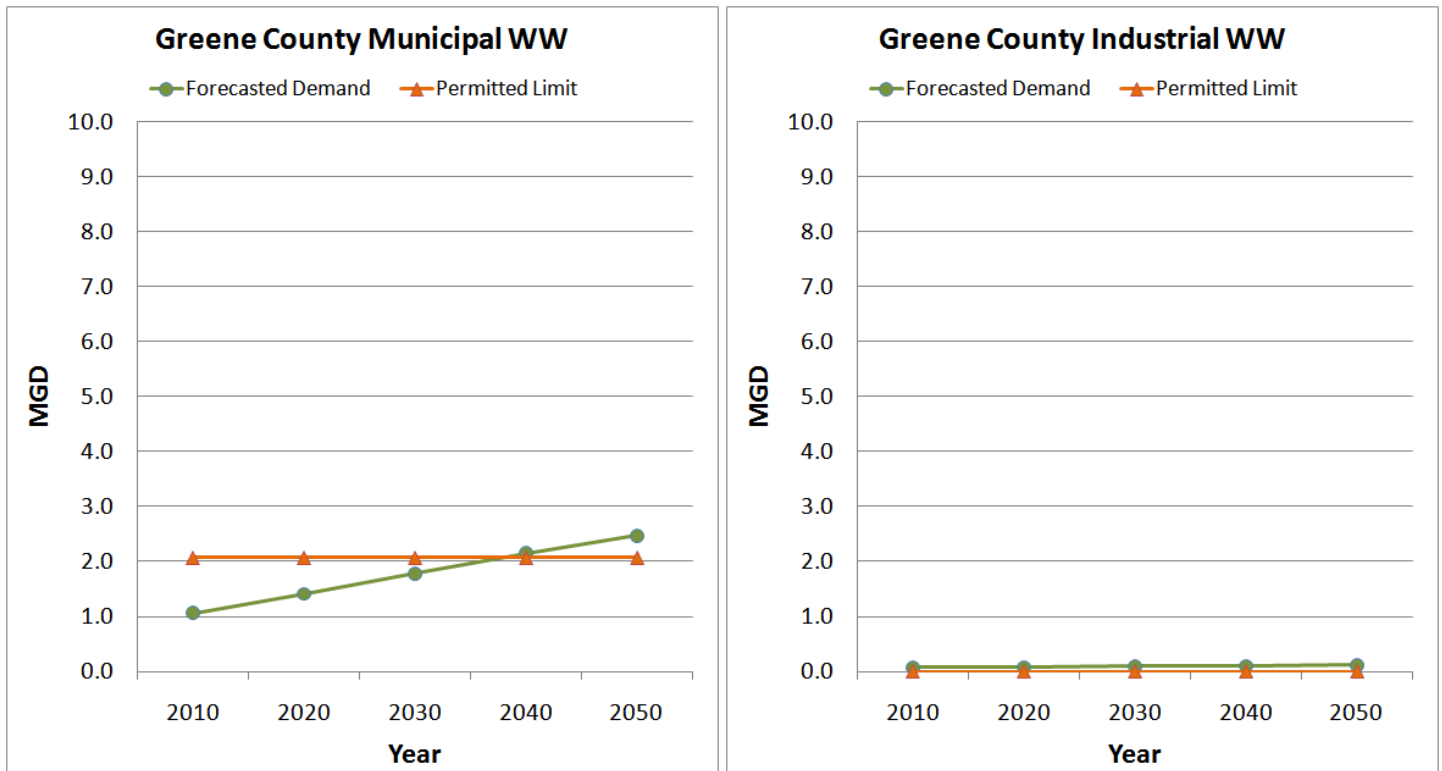


EXHIBIT 19:
GREENE COUNTY COMPARISON OF PERMITTED LIMIT AND FORECASTED FLOW-WASTEWATER SPLIT



Existing Permits

Water

EXHIBIT 20:
GREENE COUNTY EXISTING WATER PERMITS

PERMIT	PERMITTED WITHDRAWAL LIMIT (MGD)	TYPE	PERMIT NO.
Surface Water Permits			
Feldspar Corporation - Bowdon Creek	0.40	Industrial	066-0310-01
Greensboro, City Of	3.00	Municipal	066-0390-03
Union Point, City Of	0.33	Municipal	066-0109-02
Agricultural(Crop irrigation, livestock, golf, nursery)	3.00	Agricultural	N/A
Surface Water Total	6.73		
Ground Water Permits			
Piedmont Water Company	1.07	Municipal	066-0002
Agricultural(Crop irrigation, livestock, golf, nursery)	0.35	Agricultural	N/A
Ground Water Total	1.42		
Existing Permitted Limit Total	8.15		

Wastewater

EXHIBIT 21:
GREENE COUNTY EXISTING WASTEWATER PERMITS

PERMIT	PERMITTED TREATMENT LIMIT (MGD)	TYPE	PERMIT NO.
NPDES Point Source Permits			
Vulcan Materials Company - Siloam	NA	Industrial	GA0026743
Feldspar Corporation - Siloam	NA	Industrial	GA0035611
Greensboro - South WPCP	1.00	Municipal	GA0021351
Union Point WPCP	0.45	Municipal	GA0025429
NPDES Total	1.45		
LAS Land Application Permits			
Beau Rivage	0.01	Municipal	GA03-617
Carey Station Urban Reuse Facility	0.50	Municipal	GA03-883
Reynolds Plantation - Linger Longer Development Co.	0.08	Municipal	GA03-897
Park Place Water Reuse Facility	0.04	Municipal	GA03-910
LAS Total	0.63		
Existing Permitted Limit Total	2.08		

Planned Projects

Water

EXHIBIT 22:
GREENE COUNTY PLANNED WATER PROJECTS

PLANNED PROJECTS	NEW/ ADD. WITHDRAWAL LIMIT (MGD)	NEW/ MOD. TO EXISTING	COMMENTS
Surface Water			
Piedmont Water Resources- Lake Oconee	5.00	New w/ Modification	Permit is existing, but there is no facility in place utilizing it. Its current permit limit is 2 MGD, but there are plans to expand facility limit out to 5 MGD.
Surface Water Total	5.00		
Ground Water			
Piedmont Water company- Reynolds Plantation	3.64	Modification	Modification to permit 066-0002
Ground Water Total	3.64		
Total New/Additional Limit	8.64		

Wastewater

EXHIBIT 23:
GREENE COUNTY PLANNED WASTEWATER PROJECTS

PLANNED PROJECTS	NEW/ ADD. TREATMENT LIMIT (MGD)	NEW/ MOD. TO EXISTING	COMMENTS
LAS Land Application			
Carey Station UWRF	0.50	Assuming Modification	Appears to be a modification to existing permit GA03-883
LAS Total	0.50		
Total New/Additional Limit	0.50		

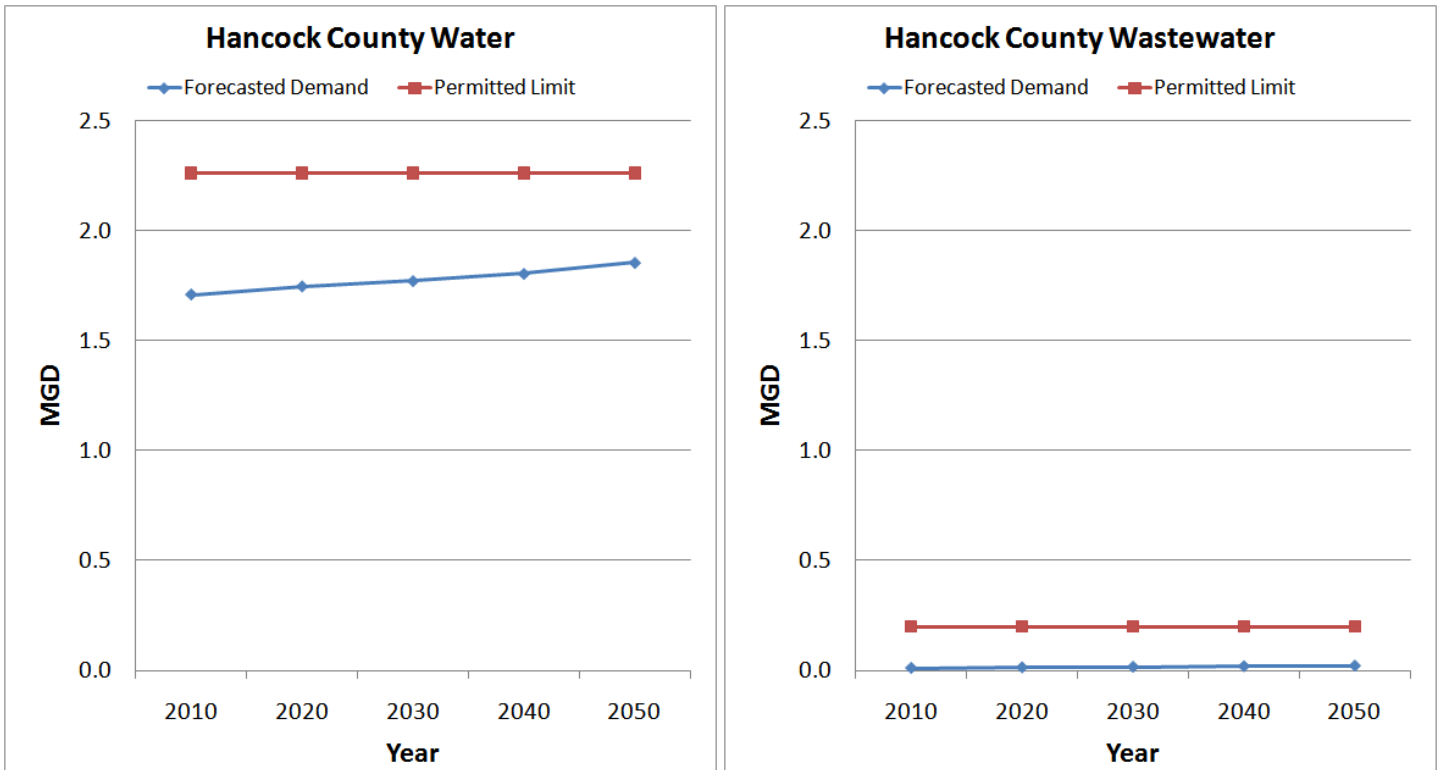
Hancock County

Gap Summary

EXHIBIT 24:
HANCOCK COUNTY COMPARISON OF PERMITTED LIMIT AND 2050 FORECASTED DEMAND/FLOW

WATER (MGD)			
PERMIT TYPE	PERMITTED WITHDRAWAL LIMIT	2050 FORECASTED DEMAND	SURPLUS (+) SHORTAGE (-)
Surface Water	1.66	1.25	+0.41
Ground Water	0.61	0.61	0.00
Total	2.27	1.86	+0.41
WASTEWATER (MGD)			
PERMIT TYPE	PERMITTED TREATMENT LIMIT	2050 FORECASTED FLOW	SURPLUS (+) SHORTAGE (-)
NPDES	0.14	0.02	+0.12
LAS	0.06	0.00	+0.06
Total	0.20	0.02	+0.18

EXHIBIT 25:
HANCOCK COUNTY COMPARISON OF PERMITTED LIMIT AND FORECASTED DEMAND/FLOW



Existing Permits

Water

EXHIBIT 26:
HANCOCK COUNTY EXISTING WATER PERMITS

PERMIT	PERMITTED WITHDRAWAL LIMIT (MGD)	TYPE	PERMIT NO.
Surface Water Permits			
Sparta, City Of	1.30	Municipal	070-0390-04
Agricultural(Crop irrigation, livestock, golf, nursery)	0.36	Agricultural	N/A
Surface Water Total	1.66		
Ground Water Permits			
Agricultural(Crop irrigation, livestock, golf, nursery)	0.61	Agricultural	N/A
Ground Water Total	0.61		
Existing Permitted Limit Total	2.27		

Wastewater

EXHIBIT 27:
HANCOCK COUNTY EXISTING WASTEWATER PERMITS

PERMIT	PERMITTED TREATMENT LIMIT (MGD)	TYPE	PERMIT NO.
NPDES Point Source Permits			
Hanson Aggregates SE - Sparta Quarry	NA	Industrial	GA0046493
Hancock County - Mayfield	0.060	Municipal	GA0021873
Sparta WPCP	0.080	Municipal	GA0025593
NPDES Total	0.140		
LAS Land Application Permits			
Briar Rose Land Co., Inc.	0.06	Municipal	GA03-700
LAS Total	0.06		
Existing Permitted Limit Total	0.20		

Planned Projects

No planned projects reported to date.

Jackson County

Gap Summary

EXHIBIT 28:
JACKSON COUNTY COMPARISON OF PERMITTED LIMIT AND 2050 FORECASTED DEMAND/FLOW

WATER (MGD)			
PERMIT TYPE	PERMITTED WITHDRAWAL LIMIT	2050 FORECASTED DEMAND	SURPLUS (+) SHORTAGE (-)
Surface Water	29.09	21.77	+7.32
Ground Water	2.60	3.26	-0.66
Total	31.69	25.03	+6.66
WASTEWATER (MGD)			
PERMIT TYPE	PERMITTED TREATMENT LIMIT	2050 FORECASTED FLOW	SURPLUS (+) SHORTAGE (-)
NPDES	5.65	12.90	-7.25
LAS	1.60	2.83	-1.23
Total	7.25	15.73	-8.48

EXHIBIT 29:
JACKSON COUNTY COMPARISON OF PERMITTED LIMIT AND FORECASTED DEMAND/FLOW

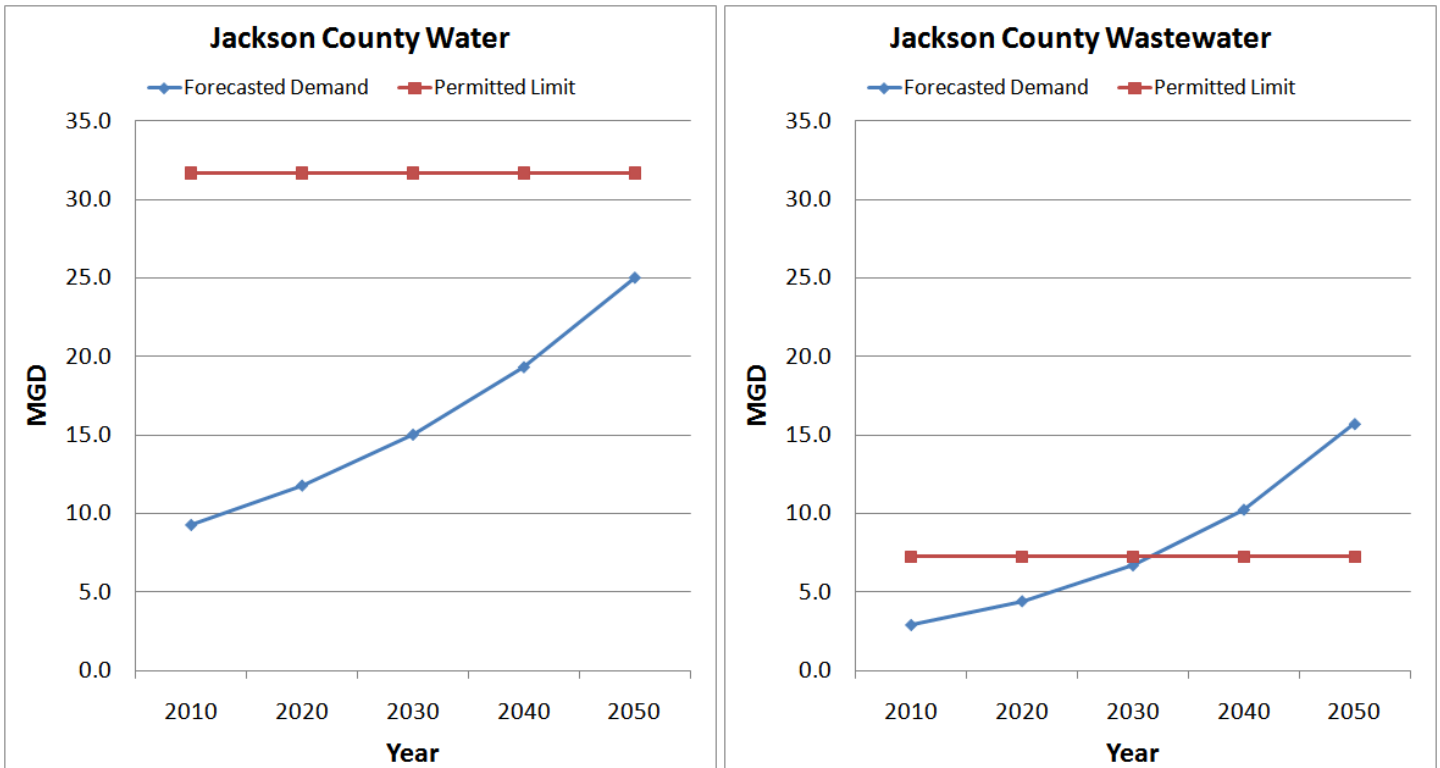
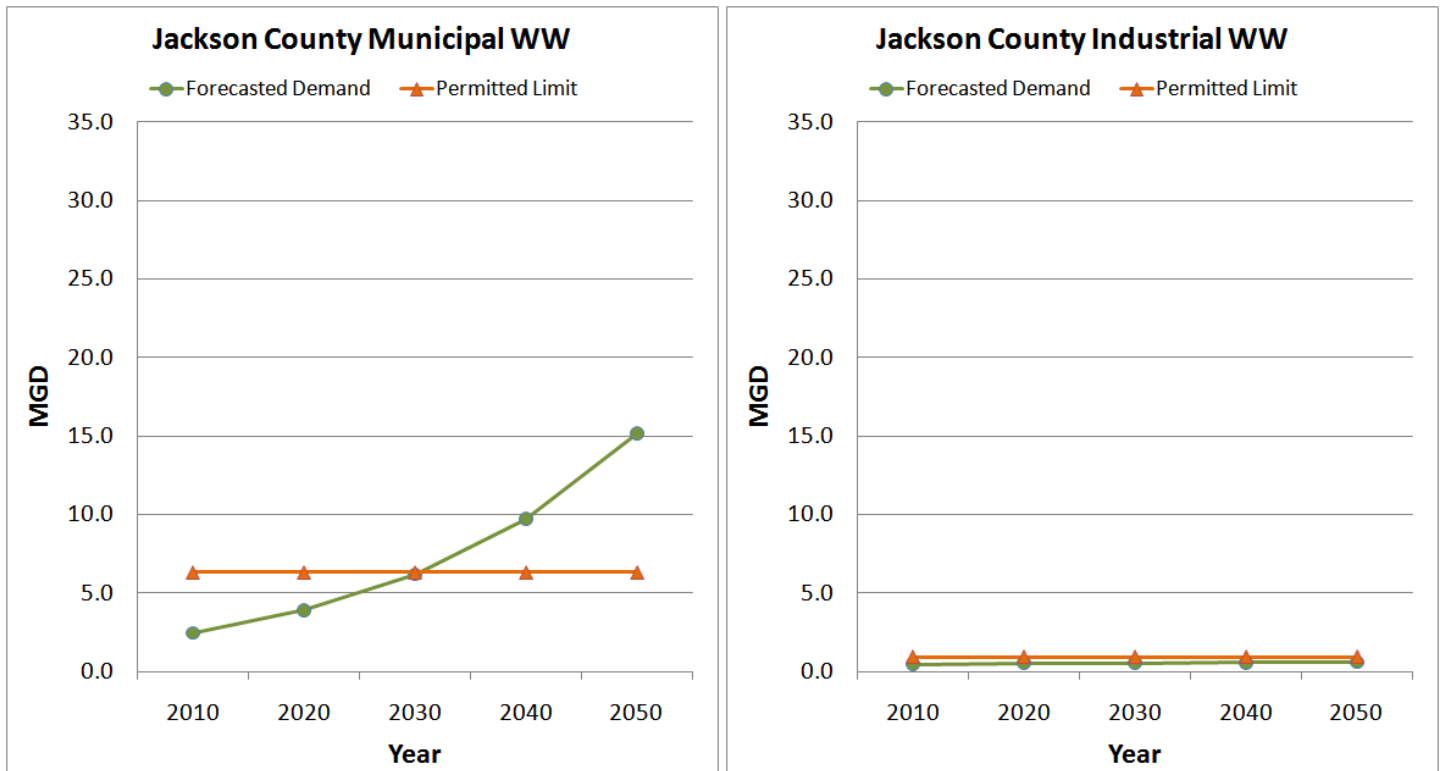


EXHIBIT 30:
 JACKSON COUNTY COMPARISON OF PERMITTED LIMIT AND FORECASTED FLOW-WASTEWATER SPLIT



Existing Permits

Water

EXHIBIT 31:
 JACKSON COUNTY EXISTING WATER PERMITS

PERMIT	PERMITTED WITHDRAWAL LIMIT (MGD)	TYPE	PERMIT NO.
Surface Water Permits			
Commerce, City Of	4.20	Municipal	006-0106-01
Jefferson, City Of- Big Curry Creek	1.75	Municipal	078-0301-01
Jefferson, City Of-Parks Creek Reservoir	4.60*	Municipal	078-0301-07
Upper Oconee Basin Water Authority- Bear Creek	14.50**	Municipal	078-0304-06
Purchase from Banks County	1.32	Municipal	N/A
Purchase from Barrow County	0.70	Municipal	N/A
Purchase from Gwinnett County	0.54	Municipal	N/A
Agricultural(Crop irrigation, livestock, golf, nursery)	1.48	Agricultural	N/A
Surface Water Total	29.09		
Ground Water Permits			
Wayne Farms, LLC	1.20	Industrial	078-0001
Town of Braselton	1.12	Municipal	078-0002
Hoschton, City of	0.15	Municipal	078-0003
Agricultural(Crop irrigation, livestock, golf, nursery)	0.13	Agricultural	N/A
Ground Water Total	2.60		
Existing Permitted Limit Total	31.69		
*Parks Creek Reservoir has been permitted, but is not in operation yet			
**Actual Permit limit is 58 MGD, but this permit is split between Jackson, Athens-Clarke, Oconee, and Barrow County. This value represents the portion allocated to Jackson County.			

Wastewater

EXHIBIT 32:
JACKSON COUNTY EXISTING WASTEWATER PERMITS

PERMIT	PERMITTED TREATMENT LIMIT (MGD)	TYPE	PERMIT NO.
NPDES Point Source Permits			
Martin Marietta Aggregates - Jackson	NA	Industrial	GA0037087
Jackson County Water and Sewerage Authority	0.50	Municipal	GA0002712
Jefferson- Central City WWTP*	1.00	Municipal	GA0023132
Commerce - Northside WPCP	1.05	Municipal	GA0026247
Maysville Pond	0.06	Municipal	GA0032905
Hoschton Pond	0.50	Municipal	GA0035980
Braselton	2.54	Municipal	GA0038857
NPDES Total	5.65		
LAS Land Application Permits			
Sonstegard Foods	0.00	Industrial	GA01-420
Agri-Cycle LLC	0.08	Industrial	GA01-477
Wayne Farms, LLC	0.85	Industrial	GA01-546
Jefferson - Central City	0.29	Municipal	GA02-006
Jefferson North - Opossum Creek (I-85)	0.39	Municipal	GA02-230
LAS Total	1.60		
Existing Permitted Limit Total	7.25		
*-This was previously and LAS, but was replaced by a mechanical plant			

Planned Projects

Water

EXHIBIT 33:
JACKSON COUNTY PLANNED WATER PROJECTS

PLANNED PROJECTS	NEW/ ADD. WITHDRAWAL LIMIT (MGD)	NEW/ MOD. TO EXISTING	COMMENTS
Surface Water			
Town of Braselton; Industrial Surface Water	3.00	New	
City of Jefferson expansion	Unknown	Modification	Source did not clearly indicate which of the Jefferson facilities would receive the expansion or by how much
Surface Water Total	3.00		
Ground Water			
Nicholson Water Authority; Crystalline Rock Aquifer; 4 wells	0.65	New	
City of Hoschton; Crystalline Rock Aquifer; currently 1 well, expand to 2	0.10	Modification	Modification to permit 078-0003
Ground Water Total	0.75		
Total New/Additional Limit	3.75		

Wastewater

EXHIBIT 34: JACKSON COUNTY PLANNED WASTEWATER PROJECTS

PLANNED PROJECTS	NEW/ ADD. TREATMENT LIMIT (MGD)	NEW/ MOD. TO EXISTING	COMMENTS
NPDES Point Source			
Maysville WPCP- into tributary to N. Oconee River	0.19	Modification	Modification to permit GA0032905
Walnut Creek- NPDES, MUN; WLA	Unknown	unknown	
Middle Oconee- NPDES, MUN; WLA	Unknown	unknown	
Jackson County Candler Creek	2.00	New	
Arcade-into Middle Oconee River at Redstone Creek	2.00	New	
Jefferson- Central City	2.00	Modification	Modification to permit GA0023132
NPDES Total	6.19		
LAS Land Application			
Jefferson- Expansion of I-85 Wastewater treatment plant (two phase expansion)	1.00		Modification
LAS Total	1.00		
Total New/Additional Limit	7.19		

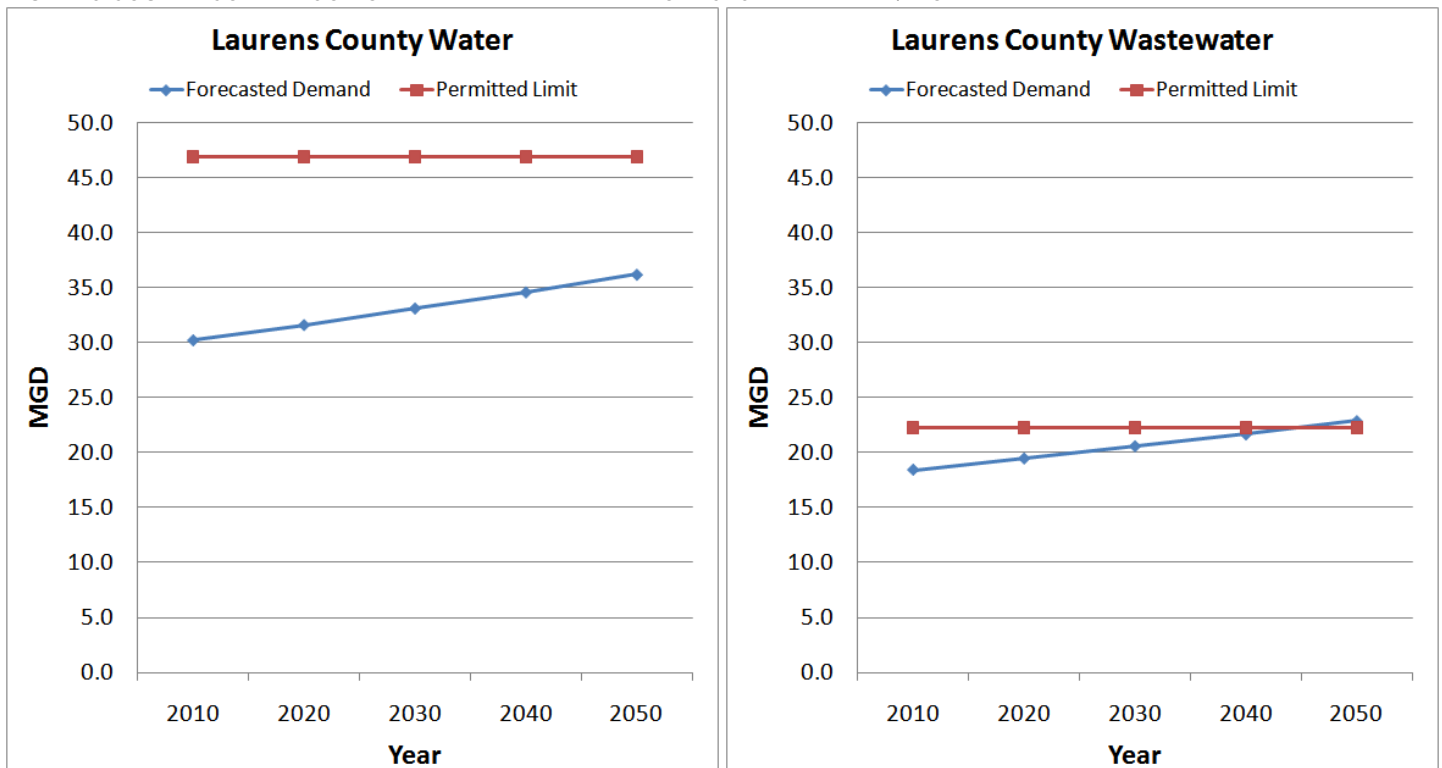
Laurens County

Gap Summary

EXHIBIT 35:
LAURENS COUNTY COMPARISON OF PERMITTED LIMIT AND 2050 FORECASTED DEMAND/FLOW

WATER (MGD)			
PERMIT TYPE	PERMITTED WITHDRAWAL LIMIT	2050 FORECASTED DEMAND	SURPLUS (+) SHORTAGE (-)
Surface Water	29.53	26.02	+3.51
Ground Water	17.40	10.19	+7.21
Total	46.93	36.21	+10.72
WASTEWATER (MGD)			
PERMIT TYPE	PERMITTED TREATMENT LIMIT	2050 FORECASTED FLOW	SURPLUS (+) SHORTAGE (-)
NPDES	21.85	22.90	-1.05
LAS	0.41	0.00	+0.41
Total	22.26	22.90	-0.64

EXHIBIT 36:
LAURENS COUNTY COMPARISON OF PERMITTED LIMIT AND FORECASTED DEMAND/FLOW



Existing Permits

Water

EXHIBIT 37:
LAURENS COUNTY EXISTING WATER PERMITS

PERMIT	PERMITTED WITHDRAWAL LIMIT (MGD)	TYPE	PERMIT NO.
Surface Water Permits			
SP Newsprint Company, LLC	17.00	Industrial	087-0392-01
Victor Forstmann, Inc.	5.50	Industrial	087-0392-02
Dublin, City Of	5.00	Municipal	087-0391-01
Agricultural(Crop irrigation, livestock, golf, nursery)	2.03	Agricultural	N/A
Surface Water Total	29.53		
Ground Water Permits			
Mohawk Industries - Laurens Park Mill	1.70	Industrial	087-0002
Victor Forstmann, Inc. - Plant	0.30	Industrial	087-0005
Victor Forstmann, Inc. - Remediation Wells	0.50	Industrial	087-0006
SP Newsprint Company, LLC	3.60	Industrial	087-0008
City of East Dublin	2.00	Municipal	087-0001
Dublin, City of	2.00	Municipal	087-0003
Agricultural(Crop irrigation, livestock, golf, nursery)	7.30	Agricultural	N/A
Ground Water Total	17.40		
Existing Permitted Limit Total	46.93		

Wastewater

EXHIBIT 38:
LAURENS COUNTY EXISTING WASTEWATER PERMITS

PERMIT	PERMITTED TREATMENT LIMIT (MGD)	TYPE	PERMIT NO.
NPDES Point Source Permits			
Mohawk Commercial Carpets	0.44	Industrial	GA0003697
Victor Forstmann, Inc	NA	Industrial	GA0003760
SP Newsprint Company - Dublin	15.00	Industrial	GA0032620
West Laurens Middle/High School	0.05	Municipal	GA0022705
Dudley WPCP	0.12	Municipal	GA0023957
Dublin WPCP	6.00	Municipal	GA0025569
Cadwell WPCP	0.05	Municipal	GA0025887
Rentz WPCP	0.12	Municipal	GA0037630
Dexter WPCP	0.07	Municipal	GA0048682
NPDES Total	21.85		
LAS Land Application Permits			
Griffin Industries Inc.	0.10	Industrial	GA01-491
East Dublin LAS	0.31	Municipal	GA02-270
LAS Total	0.41		
Existing Permitted Limit Total	22.26		

Planned Projects

Water

EXHIBIT 39:
LAURENS COUNTY PLANNED WATER PROJECTS

PLANNED PROJECTS	NEW/ ADD. WITHDRAWAL LIMIT (MGD)	NEW/ MOD. TO EXISTING	COMMENTS
Ground Water			
Town of Dexter; Groundwater; Clairborne Aquifer, 2 new wells	0.14	New	
Ground Water Total	0.14		
Total New/Additional Limit	0.14		

Wastewater

EXHIBIT 40:
LAURENS COUNTY PLANNED WASTEWATER PROJECTS

PLANNED PROJECTS	NEW/ ADD. TREATMENT LIMIT (MGD)	NEW/ MOD. TO EXISTING	COMMENTS
NPDES Point Source			
Dexter; NPDES;MUN; DDR	unknown	unknown	May be related to permit GA0048682
NPDES Total			
LAS Land Application			
East Dublin LAS	0.44	Assuming Modification	Description suggests it is a modification of permit GA02-270. If it's actually new, the added limit would be 0.750 MGD
LAS Total	0.44		
Total New/Additional Limit	0.44		

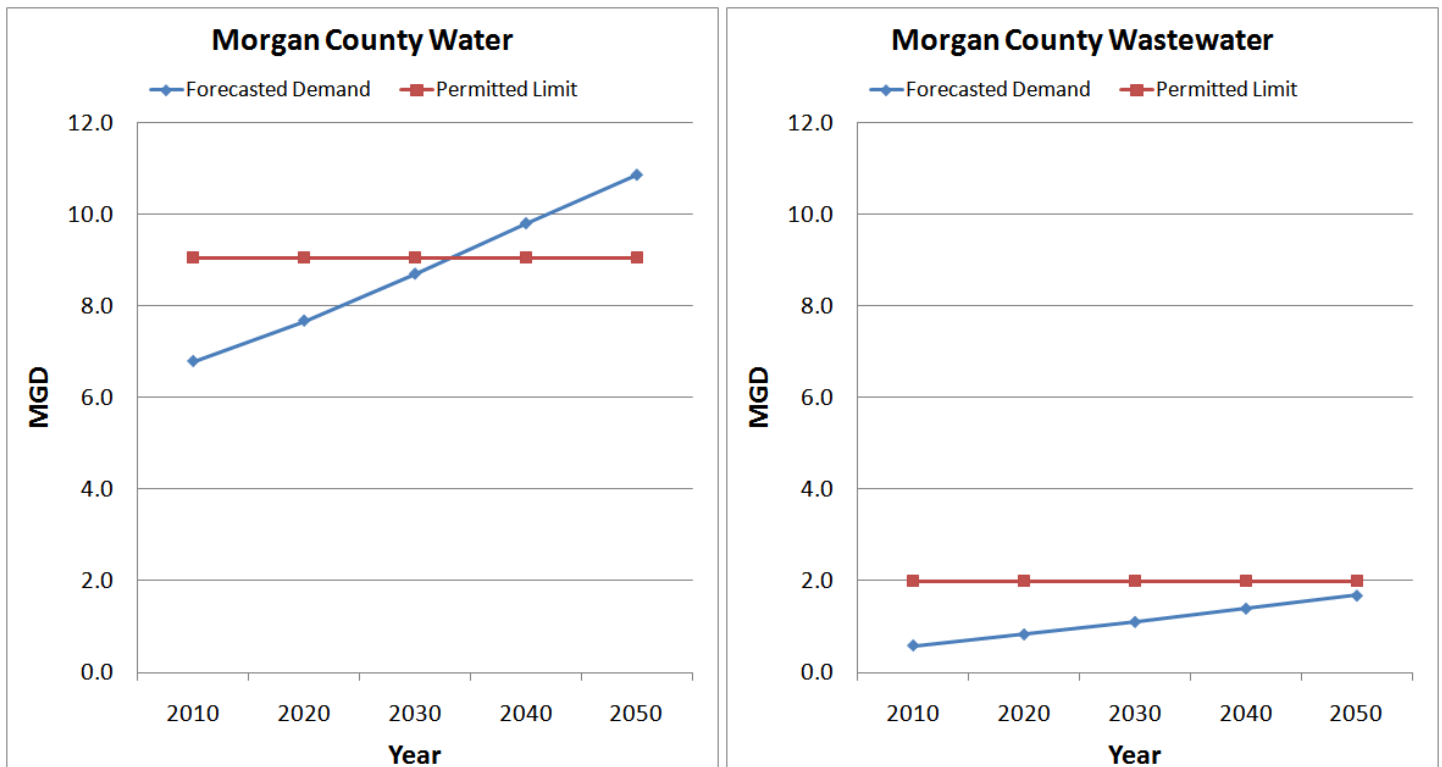
Morgan County

Gap Summary

EXHIBIT 41:
MORGAN COUNTY COMPARISON OF PERMITTED LIMIT AND 2050 FORECASTED DEMAND/FLOW

WATER (MGD)			
PERMIT TYPE	PERMITTED WITHDRAWAL LIMIT	2050 FORECASTED DEMAND	SURPLUS (+) SHORTAGE (-)
Surface Water	8.67	10.83	-2.16
Ground Water	0.38	0.03	+0.35
Total	9.05	10.86	-1.81
WASTEWATER (MGD)			
PERMIT TYPE	PERMITTED TREATMENT LIMIT	2050 FORECASTED FLOW	SURPLUS (+) SHORTAGE (-)
NPDES	1.90	1.69	+0.21
LAS	0.10	0.00	+0.10
Total	2.00	1.69	+0.31

EXHIBIT 42:
MORGAN COUNTY COMPARISON OF PERMITTED LIMIT AND FORECASTED DEMAND/FLOW



Existing Permits

Water

EXHIBIT 43:
MORGAN COUNTY EXISTING WATER PERMITS

PERMIT	PERMITTED WITHDRAWAL LIMIT (MGD)	TYPE	PERMIT NO.
Surface Water Permits			
Madison, City Of	1.50	Municipal	104-0307-01
Madison, City Of	2.00	Municipal	104-0307-02
Agricultural(Crop irrigation, livestock, golf, nursery)	5.17	Agricultural	N/A
Surface Water Total	8.67		
Ground Water Permits			
International Paper	0.35	Industrial	104-0002
Agricultural(Crop irrigation, livestock, golf, nursery)	0.03	Agricultural	N/A
Ground Water Total	0.38		
Existing Permitted Limit Total	9.05		

Wastewater

EXHIBIT 44:
MORGAN COUNTY EXISTING WASTEWATER PERMITS

PERMIT	PERMITTED TREATMENT LIMIT (MGD)	TYPE	PERMIT NO.
NPDES Point Source Permits			
Georgia Pacific Corporation	0.03	Industrial	GA0047988
Madison - Southside WPCP	0.66	Municipal	GA0023141
Madison - Northside WPCP	0.14	Municipal	GA0023159
Rutledge Pond	0.05	Municipal	GA0025895
DOT - Rest Area 53	0.01	Municipal	GA0033316
Madison - I-20 WRF	1.00	Municipal	GA0038741
DNR - Hard Labor Creek State Park	0.006	Municipal	GA0050008
NPDES Total	1.90		
LAS Land Application Permits			
Madison Lakes, LLC	0.10	Municipal	GA03-965
LAS Total	0.10		
Existing Permitted Limit Total	2.00		

Planned Projects

Wastewater

EXHIBIT 45:
MORGAN COUNTY PLANNED WASTEWATER PROJECTS

PLANNED PROJECTS	NEW/ ADD. TREATMENT LIMIT (MGD)	NEW/ MOD. TO EXISTING	COMMENTS
NPDES Point Source			
Madison- I-20 WWTP	unknown	unknown	May be related to permit GA0038741
NPDES Total	-		
Total New/Additional Limit	-		

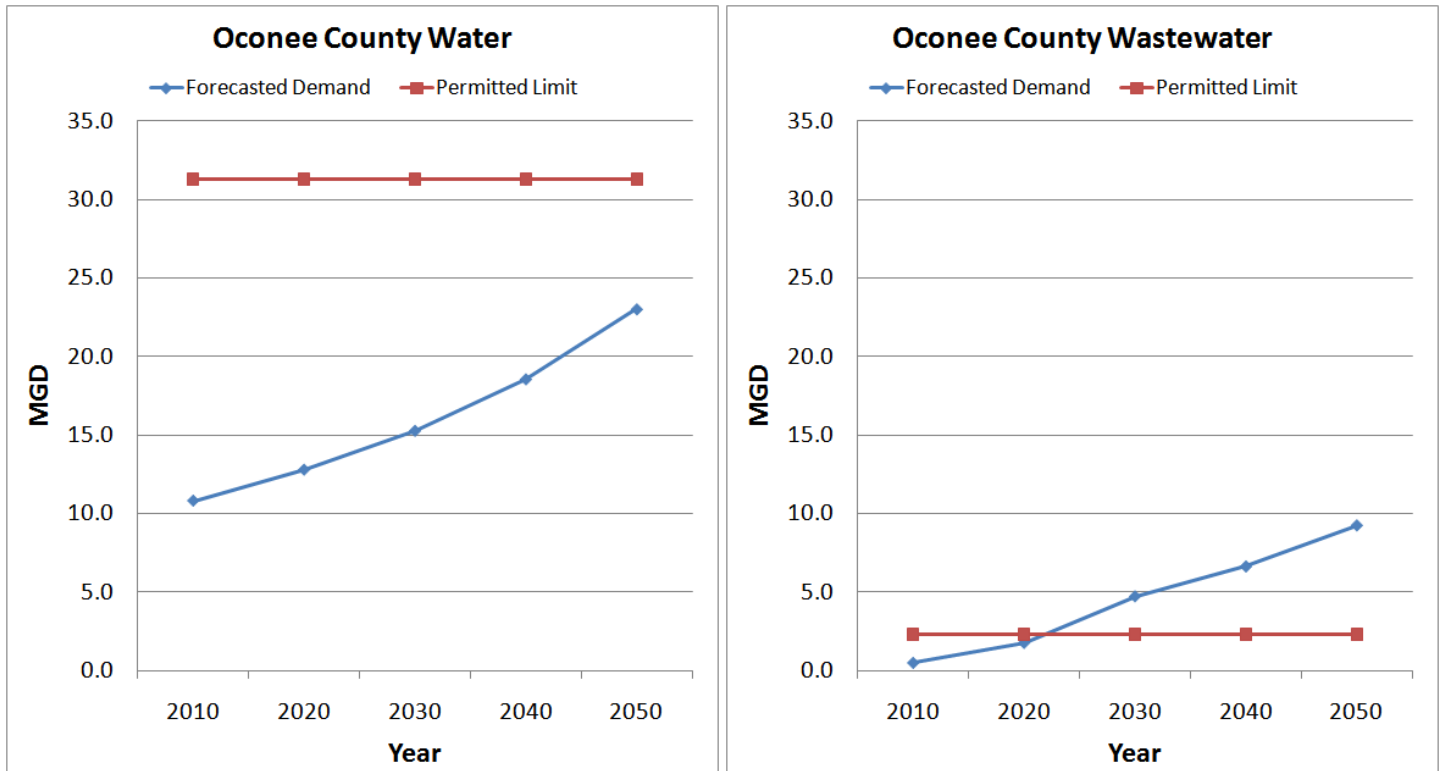
Oconee County

Gap Summary

EXHIBIT 46:
OCONEE COUNTY COMPARISON OF PERMITTED LIMIT AND 2050 FORECASTED DEMAND/FLOW

WATER (MGD)			
PERMIT TYPE	PERMITTED WITHDRAWAL LIMIT	2050 FORECASTED DEMAND	SURPLUS (+) SHORTAGE (-)
Surface Water	23.75	16.46	+7.29
Ground Water	7.53	6.57	+0.96
Total	31.28	23.03	+8.25
WASTEWATER (MGD)			
PERMIT TYPE	PERMITTED TREATMENT LIMIT	2050 FORECASTED FLOW	SURPLUS (+) SHORTAGE (-)
NPDES	2.09	9.22	-7.13
LAS	0.21	0.00	+0.21
Total	2.30	9.22	-6.92

EXHIBIT 47:
OCONEE COUNTY COMPARISON OF PERMITTED LIMIT AND FORECASTED DEMAND/FLOW



Existing Permits

Water

EXHIBIT 48:
OCONEE COUNTY EXISTING WATER PERMITS

PERMIT	PERMITTED WITHDRAWAL LIMIT (MGD)	TYPE	PERMIT NO.
Surface Water Permits			
Oconee County Utility Department	1.80	Municipal	108-0305-02
Walton County W&S Authority- Hard Labor Creek Reservoir (Walton County)	12.00*	Municipal	147-0307-03
Upper Oconee Basin Water Authority-Bear Creek WTP (Jackson County)	7.00**	Municipal	078-0304-06
Agricultural(Crop irrigation, livestock, golf, nursery)	2.95	Agricultural	N/A
Surface Water Total	23.75		
Ground Water Permits			
Oconee County Utility Department	2.80	Municipal	108-0001
Agricultural(Crop irrigation, livestock, golf, nursery)	4.73	Agricultural	N/A
Ground Water Total	7.53		
Existing Permitted Limit Total	31.28		
*-Actual permit limit is 51.8 MGD, but this permit is split between Oconee and Walton County (located in Walton). This value represents the portion allocated to Oconee County.			
**-Actual Permit limit is 58 MGD, but this permit is split between Jackson, Athens-Clarke, Oconee, and Barrow County (Located in Jackson). This value represents the portion allocated to Oconee County.			

Wastewater

EXHIBIT 49:
OCONEE COUNTY EXISTING WASTEWATER PERMITS

PERMIT	PERMITTED TREATMENT LIMIT (MGD)	TYPE	PERMIT NO.
NPDES Point Source Permits			
Southwire (General Cable Corporation)	NA	Industrial	GA0002917
Arbor Glen MHP	0.09	Municipal	GA0049875
Oconee County - Calls Creek WPCP	1.00	Municipal	GA0050211
Oconee County Rocky Branch	1.00	Municipal	GA0038806
NPDES Total	2.09		
LAS Land Application Permits			
Oconee County - Rocky Branch LAS	0.20	Municipal	GA02-176
Family Life Enrichment Center	0.01	Municipal	GA03-928
LAS Total	0.21		
Existing Permitted Limit Total	2.30		

Planned Projects

Wastewater

EXHIBIT 50:

OCONEE COUNTY PLANNED WASTEWATER PROJECTS

PLANNED PROJECTS	NEW/ ADD. TREATMENT LIMIT (MGD)	NEW/ MOD. TO EXISTING	COMMENTS
NPDES Point Source			
Oconee County Calls Creek	0.50	Modification	Modification to permit GA0050211
Rocky Branch WRF	unknown	Modification	Modification to permit GA0038806
NPDES Total	0.50		
Total New/Additional Limit	0.50		

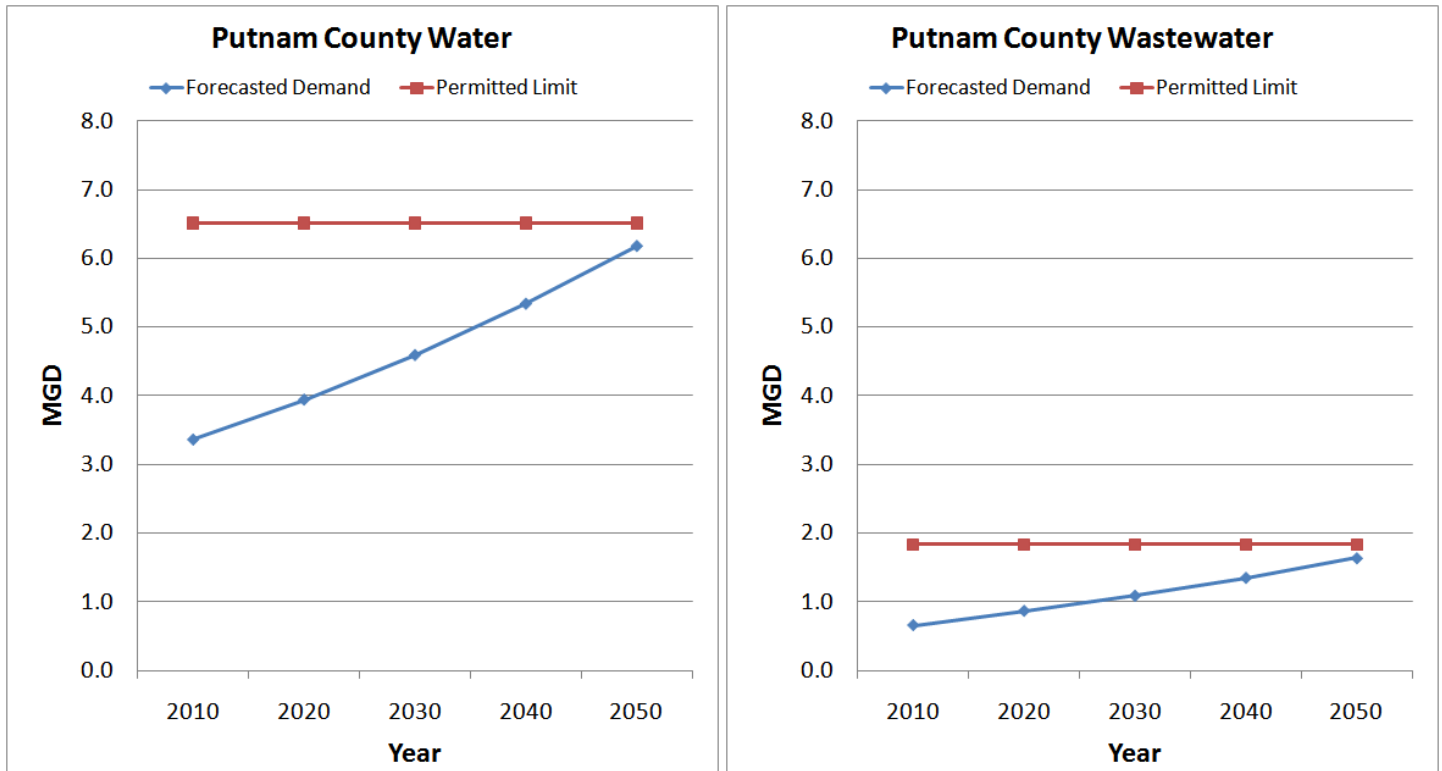
Putnam County

Gap Summary

EXHIBIT 51:
PUTNAM COUNTY COMPARISON OF PERMITTED LIMIT AND 2050 FORECASTED DEMAND/FLOW

WATER (MGD)			
PERMIT TYPE	PERMITTED WITHDRAWAL LIMIT	2050 FORECASTED DEMAND	SURPLUS (+) SHORTAGE (-)
Surface Water	5.18	5.74	-0.56
Ground Water	1.33	0.44	+0.89
Total	6.51	6.18	+0.33
WASTEWATER (MGD)			
PERMIT TYPE	PERMITTED TREATMENT LIMIT	2050 FORECASTED FLOW	SURPLUS (+) SHORTAGE (-)
NPDES	1.27	1.64	-0.37
LAS	0.57	0.00	+0.57
Total	1.84	1.64	+0.20

EXHIBIT 52:
PUTNAM COUNTY COMPARISON OF PERMITTED LIMIT AND FORECASTED DEMAND/FLOW



Existing Permits

Water

EXHIBIT 53:
PUTNAM COUNTY EXISTING WATER PERMITS

PERMIT	PERMITTED WITHDRAWAL LIMIT (MGD)	TYPE	PERMIT NO.
Surface Water Permits			
Eatonton, City Of	1.00	Municipal	117-0308-01
Sinclair Water Authority- Lake Sinclair	3.00*	Municipal	117-0390-06
Agricultural(Crop irrigation, livestock, golf, nursery)	1.18	Agricultural	N/A
Surface Water Total	5.18		
Ground Water Permits			
Rayonier Wood Products, LLC - Eatonton Sawmill	0.15	Industrial	117-0001
Piedmont Water Company - Oconee Crossing	0.50	Municipal	117-0002
Piedmont Water Company - Long Shoals Plantation	0.40	Municipal	117-0003
Agricultural(Crop irrigation, livestock, golf, nursery)	0.28	Agricultural	N/A
Ground Water Total	1.33		
Existing Permitted Limit Total	6.51		
*-Sinclair water authority is evenly split between Baldwin and Putnam Counties. The actual permit limit is 6.65 MGD, but the current facility capacity is only 6 MGD.			

Wastewater

EXHIBIT 54:
PUTNAM COUNTY EXISTING WASTEWATER PERMITS

PERMIT	PERMITTED TREATMENT LIMIT (MGD)	TYPE	PERMIT NO.
NPDES Point Source Permits			
DOT #53	0.01	Municipal	GAG550000
Rock Eagle 4-H Center	0.16	Municipal	GA0022233
Eatonton - West WPCP	0.55	Municipal	GA0032263
Eatonton - East WPCP	0.55	Municipal	GA0032271
NPDES Total	1.27		
LAS Land Application Permits			
Greatwaters at Reynolds Plantation	0.07	Municipal	GA02-072
Oconee Crossing Urban Reuse	0.50	Municipal	GA03-632
LAS Total	0.57		
Existing Permitted Limit Total	1.84		

Planned Projects

Water

EXHIBIT 55:
PUTNAM COUNTY PLANNED WATER PROJECTS

PLANNED PROJECTS	NEW/ ADD. WITHDRAWAL LIMIT (MGD)	NEW/ MOD. TO EXISTING	COMMENTS
Surface Water			
City of Eatonton; Municipal; Surface Water; Little River source	1.00	Assuming Modification	Has a similar description to permit 177-0308-01, assuming this is a modification of that
Sinclair Water Authority- Lake Sinclair	2.00	Modification	This facility has the potential to expand out to 10 MGD, where the capacity is split between Baldwin and Putnam (5MGD each).
Surface Water Total	3.00		
Total New/Additional Limit	3.00		

Wastewater

EXHIBIT 56:
PUTNAM COUNTY PLANNED WASTEWATER PROJECTS

PLANNED PROJECTS	NEW/ ADD. TREATMENT LIMIT (MGD)	NEW/ MOD. TO EXISTING	COMMENTS
NPDES Point Source			
Eatonton- Westside WPCP-to Unnamed Tributary to the Little River	0.95	Modification	If "Eatonton Little River" were implemented, it would replace the Westside and Eastside. The proposed 3 MGD of this would be equivalent to the sum of Westside and Eastside after expansion, which is why this has 0 added limit.
Eatonton- Eastside WPCP- to Rooty Creek	0.95	Modification	
Eatonton Little River; If implemented, will replace Westside and Eastside	0.00	New	
NPDES Total	1.90		
Total New/Additional Limit	1.90		

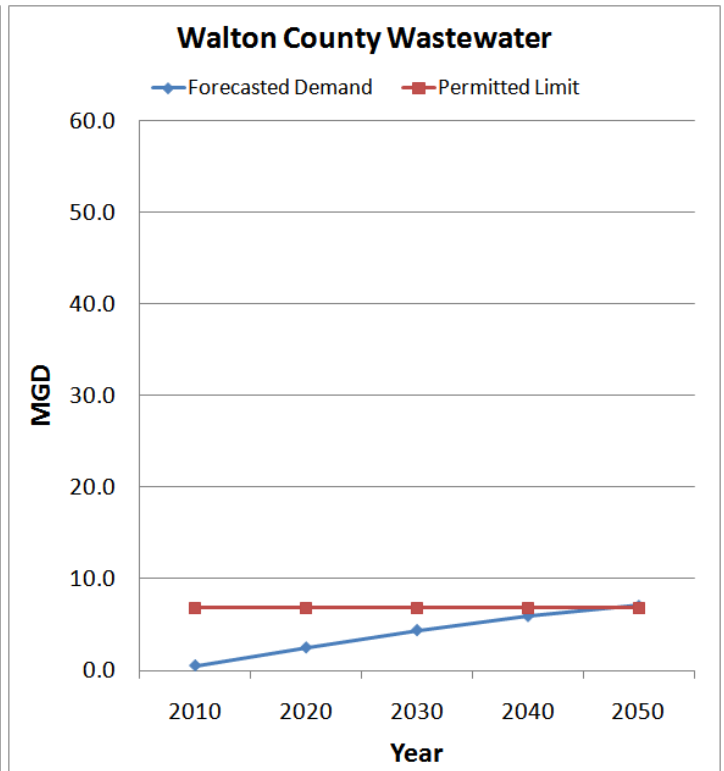
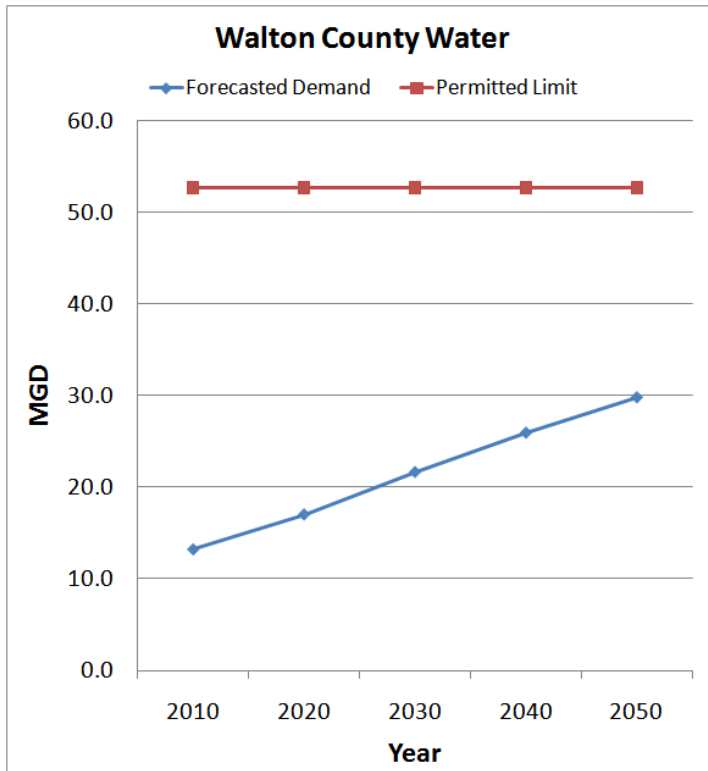
Walton County

Gap Summary

EXHIBIT 57:
WALTON COUNTY COMPARISON OF PERMITTED LIMIT AND 2050 FORECASTED DEMAND/FLOW

WATER (MGD)			
PERMIT TYPE	PERMITTED WITHDRAWAL LIMIT	2050 FORECASTED DEMAND	SURPLUS (+) SHORTAGE (-)
Surface Water	50.07	27.15	+22.92
Ground Water	2.65	2.65	0.00
Total	52.72	29.80	+22.92
WASTEWATER (MGD)			
PERMIT TYPE	PERMITTED TREATMENT LIMIT	2050 FORECASTED FLOW	SURPLUS (+) SHORTAGE (-)
NPDES	6.56	7.08	-0.52
LAS	0.28	0.00	+0.28
Total	6.84	7.08	-0.24

EXHIBIT 58:
WALTON COUNTY COMPARISON OF PERMITTED LIMIT AND FORECASTED DEMAND/FLOW



Existing Permits

Water

EXHIBIT 59:
WALTON COUNTY EXISTING WATER PERMITS

PERMIT	PERMITTED WITHDRAWAL LIMIT (MGD)	TYPE	PERMIT NO.
Surface Water Permits			
Social Circle, City Of	1.00	Municipal	147-0410-01
Monroe Utilities Network	10.00	Municipal	147-0410-02
Walton County Water & Sewerage Authority-Hard Labor Creek Reservoir	29.50*	Municipal	147-0307-03
Cornish Creek (Newton County)	6.00	Municipal	N/A
Purchase from Gwinnett County	0.01	Municipal	N/A
Agricultural(Crop irrigation, livestock, golf, nursery)	3.56	Agricultural	N/A
Surface Water Total	50.07		
Ground Water Permits			
Agricultural(Crop irrigation, livestock, golf, nursery)	2.65	Agricultural	N/A
Ground Water Total	2.65		
Existing Permitted Limit Total	52.72		
*-Actual permit limit is 51.8 MGD, but this permit is split between Oconee and Walton County (located in Walton). This value represents the portion allocated to Oconee County.			

Wastewater

EXHIBIT 60:
WALTON COUNTY EXISTING WASTEWATER PERMITS

PERMIT	PERMITTED TREATMENT LIMIT (MGD)	TYPE	PERMIT NO.
NPDES Point Source Permits			
Universal Rundle Corp.	NA	Industrial	GA0030961
Loganville WPCP	1.75	Municipal	GA0020788
Social Circle - Little River WPCP	1.40	Municipal	GA0026107
Monroe - Jacks Creek WPCP	3.40	Municipal	GA0047171
Park Place Nursing Facility	0.01	Municipal	GA0049921
NPDES Total	6.56		
LAS Land Application Permits			
Loganville LAS	0.25	Municipal	GA02-174
Walton Co. Board Of Education - Youth Middle School	0.03	Municipal	GA03-776
LAS Total	0.28		
Existing Permitted Limit Total	6.84		

Planned Projects

Water

EXHIBIT 61:

WALTON COUNTY PLANNED WATER PROJECTS

PLANNED PROJECTS	NEW/ ADD. WITHDRAWAL LIMIT (MGD)	NEW/ MOD. TO EXISTING	COMMENTS
Surface Water			
Caruthers Mill C&D Landfill; Industrial Surface Water; Apalachee River source	0.20	New	
Surface Water Total	0.20		
Total New/Additional Limit	0.20		

Wastewater

EXHIBIT 62:

WALTON COUNTY PLANNED WASTEWATER PROJECTS

PLANNED PROJECTS	NEW/ ADD. TREATMENT LIMIT (MGD)	NEW/ MOD. TO EXISTING	COMMENTS
NPDES Point Source			
Monroe- into Jacks Creek	2.60	Modification	Modification to permit GA0047171
Loganville EPCP-into Big Flat Creek	3.25	Modification	Modification to permit GA0020788
Walton County- Alcovy River WPCP-into Alcovy River	2.50	Assuming New	Did not see an existing permit similar in description
Walnut Grove WRF-into Cornish Creek	1.00	Assuming New	Did not see an existing permit similar in description
Social Circle	3.20	New	Listed as a variable permit for Social circle, but indicated to be in Newton County. Not sure if this project applies.
Social Circle/Newton County WPCP-into Little River	6.20	New	Also noted as involved with Newton county, not sure how this pans out.
NPDES Total	18.75		
Total New/Additional Limit	18.75		

Washington County

Gap Summary

EXHIBIT 63:
WASHINGTON COUNTY COMPARISON OF PERMITTED LIMIT AND 2050 FORECASTED DEMAND/FLOW

WATER (MGD)			
PERMIT TYPE	PERMITTED WITHDRAWAL LIMIT	2050 FORECASTED DEMAND	SURPLUS (+) SHORTAGE (-)
Surface Water	1.87	1.87	0.00
Ground Water	41.90	41.69	+0.21
Total	43.77	43.56	+0.21
WASTEWATER (MGD)			
PERMIT TYPE	PERMITTED TREATMENT LIMIT	2050 FORECASTED FLOW	SURPLUS (+) SHORTAGE (-)
NPDES	6.22	42.35	-36.13
LAS	0.30	0.30	0.00
Total	6.52	42.65	-36.13*

*Stone/clay industrial discharge permits typically do not have flow-based limits, so the wastewater gap may be misleading. See Exhibit 65 for the wastewater split between municipal and industrial sources for clarification.

EXHIBIT 64:
WASHINGTON COUNTY COMPARISON OF PERMITTED LIMIT AND FORECASTED DEMAND/FLOW

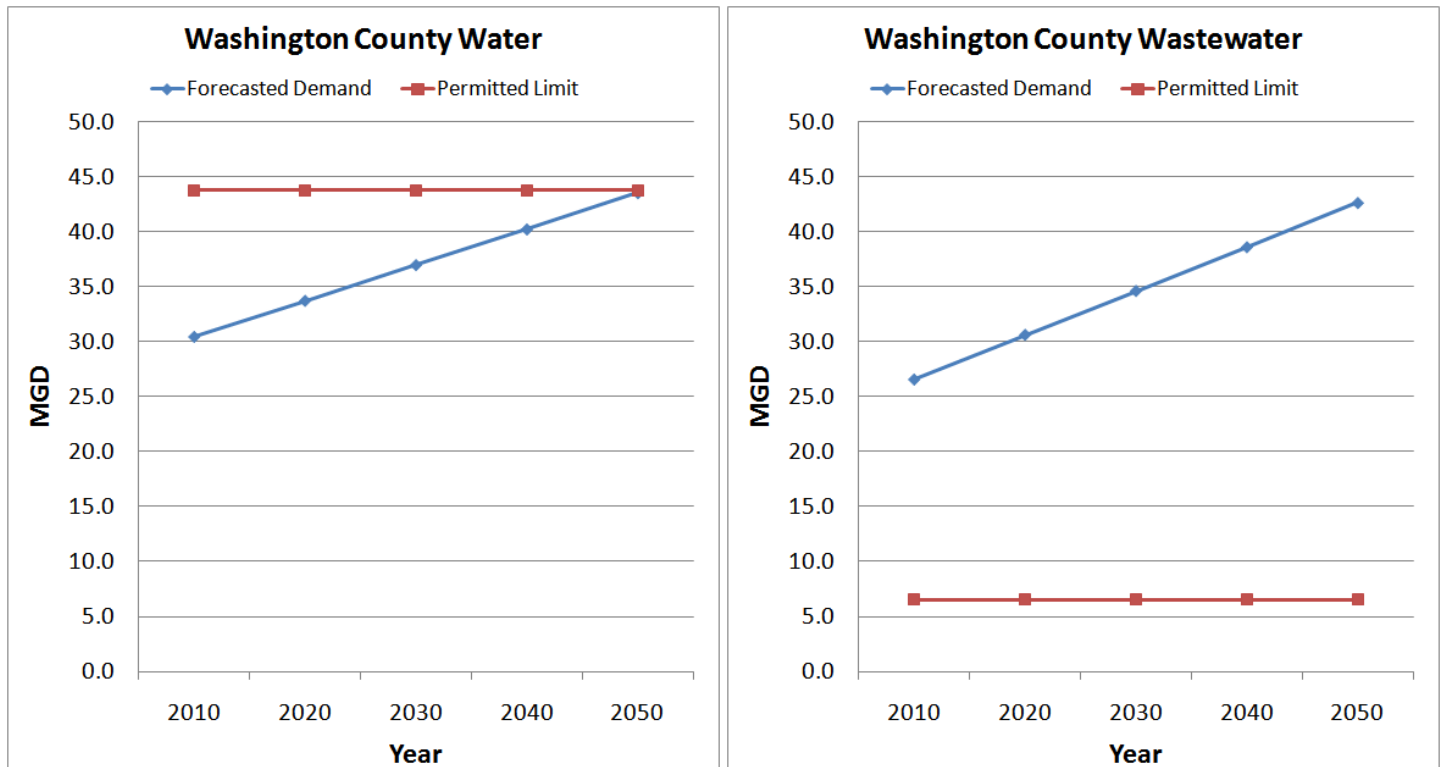
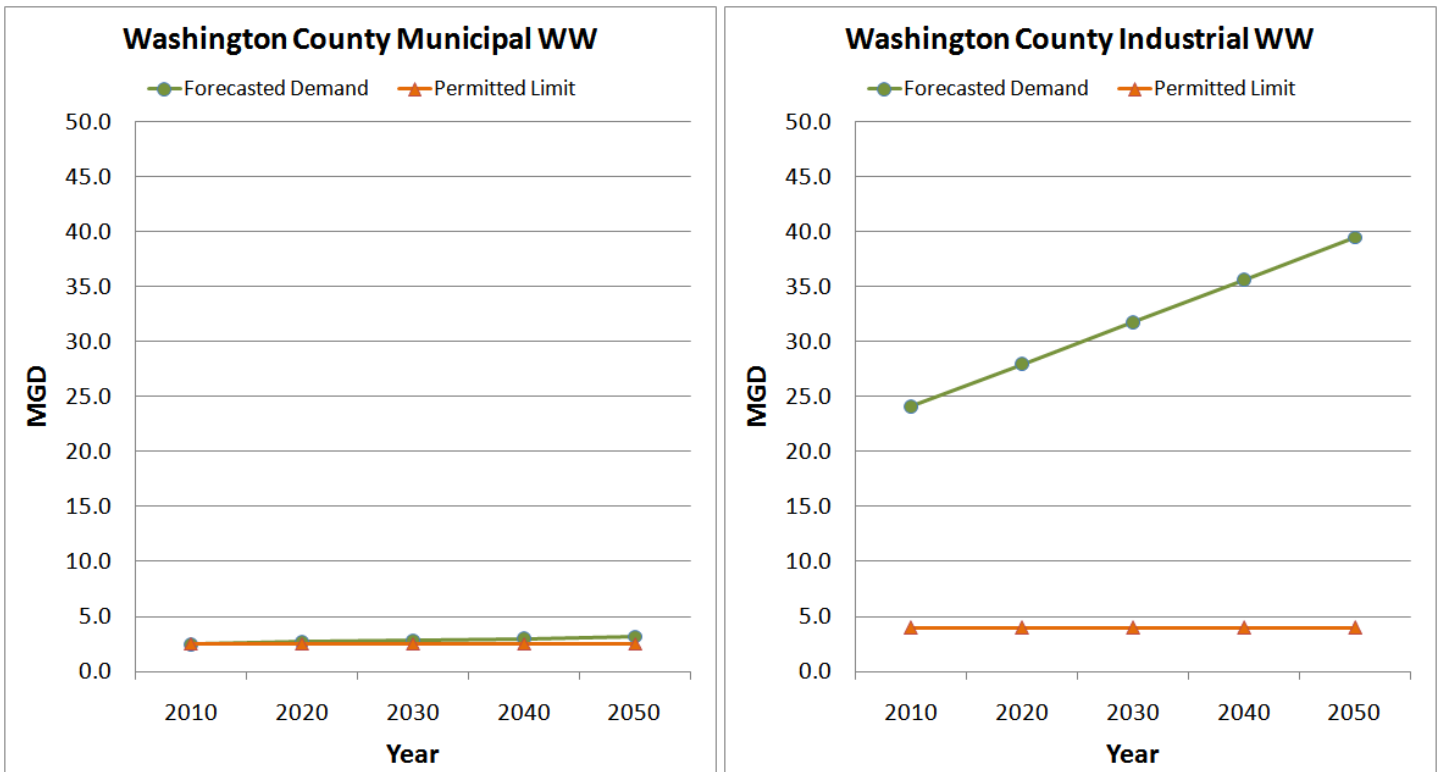


EXHIBIT 65:

WASHINGTON COUNTY COMPARISON OF PERMITTED LIMIT AND FORECASTED FLOW-WASTEWATER SPLIT



Stone/clay industrial wastewater permits typically do not have flow-based limits, so the wastewater gap may be misleading. The exhibit above clarifies that municipal wastewater has a small gap. The industrial wastewater shows a large gap, which is a result of the stone/clay industry not having flow-based limits to include in the permitted limit tabulation.

Existing Permits

Water

EXHIBIT 66:

WASHINGTON COUNTY EXISTING WATER PERMITS

PERMIT	PERMITTED WITHDRAWAL LIMIT (MGD)	TYPE	PERMIT NO.
Surface Water Permits			
Agricultural(Crop irrigation, livestock, golf, nursery)	1.87	Agricultural	N/A
Surface Water Total	1.87		
Ground Water Permits			
Thiele Kaolin Co - Avant Mine	1.10	Industrial	150-0001
Thiele Kaolin Co - Sandersville Plant	3.35	Industrial	150-0002
Thiele Kaolin Co - Hall Mine	0.72	Industrial	150-0003
IMERYYS Clays - Deepstep - Franklin Mine	0.74	Industrial	150-0004
IMERYYS Clays - Deepstep Road Plant	10.00	Industrial	150-0006
IMERYYS Clays - Sandersville Calcine Plant	1.90	Industrial	150-0007
Lapp Insulator Division	0.30	Industrial	150-0015
IMERYYS Clays - Buffalo China Operation	0.70	Industrial	150-0016
Thiele Kaolin Co - Limestone Plant	1.44	Industrial	150-0021
KaMin, LLC - Sandersville Plant #1	7.20	Industrial	150-0022
K Gen Sandersville, LLC	0.50	Industrial	150-0023
KaMin, LLC - Tennille Well	0.72	Industrial	150-0025
Tennille, City Of	0.44	Municipal	150-0012
Sandersville, City of	4.50	Municipal	150-0014
Davisboro, Town of	0.50	Municipal	150-0019
Agricultural(Crop irrigation, livestock, golf, nursery)	7.79	Agricultural	N/A
Ground Water Total	41.90		
Existing Permitted Limit Total	43.77		

Wastewater

EXHIBIT 67:
WASHINGTON COUNTY EXISTING WASTEWATER PERMITS

PERMIT	PERMITTED TREATMENT LIMIT (MGD)	TYPE	PERMIT NO.
NPDES Point Source Permits			
Imerys Kaolin, Inc.	NA	Industrial	GA0002135
Thiele Kaolin - Dikes Mine	4.00	Industrial	GA0002453
ECC International (Imerys)	NA	Industrial	GA0002780
Basf Catalysts LLC- Gordon	NA	Industrial	GA0003271
Kentucky - Tennessee Clay Company	NA	Industrial	GA0003387
Imerys Clays Inc.	NA	Industrial	GA0045934
Imerys Clays Inc.	NA	Industrial	GA0046159
ECC International (Imerys)	NA	Industrial	GA0046329
Imerys Clays	NA	Industrial	GA0046540
Imerys Clay Inc.	NA	Industrial	GA0047309
Sandersville WPCP	1.70	Municipal	GA0032051
Oconee Health Care Center	0.006	Municipal	GA0035238
Harrison WPCP	0.06	Municipal	GA0037338
Tennille Pond	0.45	Municipal	GA0049956
NPDES Total	6.22		
LAS Land Application Permits			
Davisboro LAS	0.30	Municipal	GA02-242
LAS Total	0.30		
Existing Permitted Limit Total	6.52		

Planned Projects

Water

EXHIBIT 68:
WASHINGTON COUNTY PLANNED WATER PROJECTS

PLANNED PROJECTS	NEW/ ADD. WITHDRAWAL LIMIT (MGD)	NEW/ MOD. TO EXISTING	COMMENTS
Ground Water			
Power4Georgians, LLC	16.0	New	
IMERYYS; Cretaceous Sand and Dublin Midville Aquifer; stay at 11 wells	-0.044	Modification	Modification and consolidation of permits 150-0016,-0007, -0006, -0004. Results in a loss of limit.
Ground Water Total	15.56		
Total New/Additional Limit	15.56		

Wastewater

EXHIBIT 69:

WASHINGTON COUNTY PLANNED WASTEWATER PROJECTS

PLANNED PROJECTS	NEW/ ADD. TREATMENT LIMIT (MGD)	NEW/ MOD. TO EXISTING	COMMENTS
NPDES Point Source			
Sandersville Expansion	unknown	Modification	
Tennille WPCP- Relocation	1.50	Assuming Modification	With this being a relocation, a modification to an existing permit is assumed, but uncertain what it's related to. Possibly GA0049956.
NPDES Total			
LAS Land Application			
Davisboro	unknown	unknown	Not sure if this is LAS or NPDES
LAS Total	-		
Total New/Additional Limit	1.50		

Wilkinson County

Gap Summary

EXHIBIT 70:
WILKINSON COUNTY COMPARISON OF PERMITTED LIMIT AND 2050 FORECASTED DEMAND/FLOW

WATER (MGD)			
PERMIT TYPE	PERMITTED WITHDRAWAL LIMIT	2050 FORECASTED DEMAND	SURPLUS (+) SHORTAGE (-)
Surface Water	4.30	0.20	+4.10
Ground Water	34.77	28.56	+6.21
Total	39.07	28.76	+10.31
WASTEWATER (MGD)			
PERMIT TYPE	PERMITTED TREATMENT LIMIT	2050 FORECASTED FLOW	SURPLUS (+) SHORTAGE (-)
NPDES	0.79	35.96	-35.17
LAS	0.00	0.00	0.00
Total	0.79	35.96	-35.17*

*-Stone/clay industrial discharge permits typically do not have flow-based limits, so the wastewater gap may be misleading. See Exhibit 72 for the wastewater split between municipal and industrial sources for clarification.

EXHIBIT 71:
WILKINSON COUNTY COMPARISON OF PERMITTED LIMIT AND FORECASTED DEMAND/FLOW

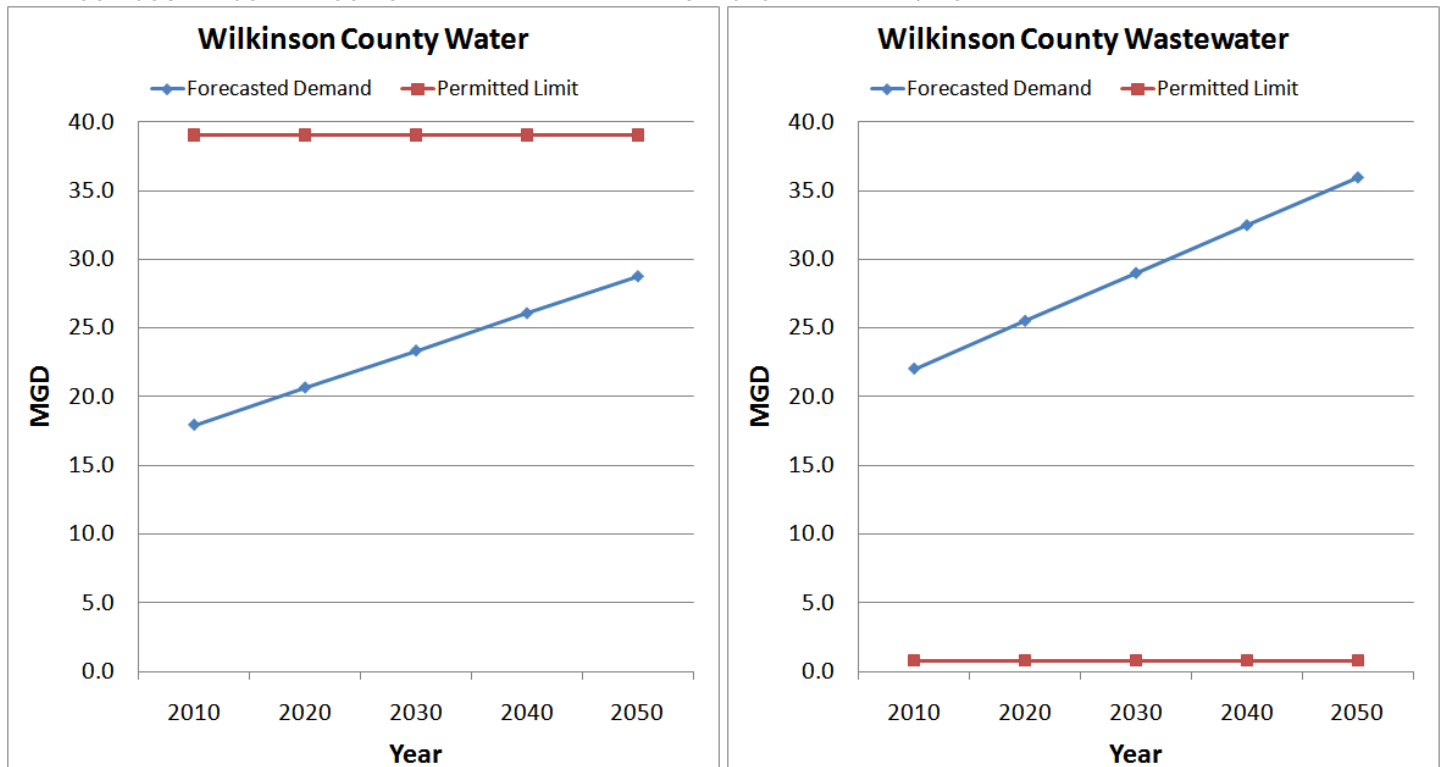
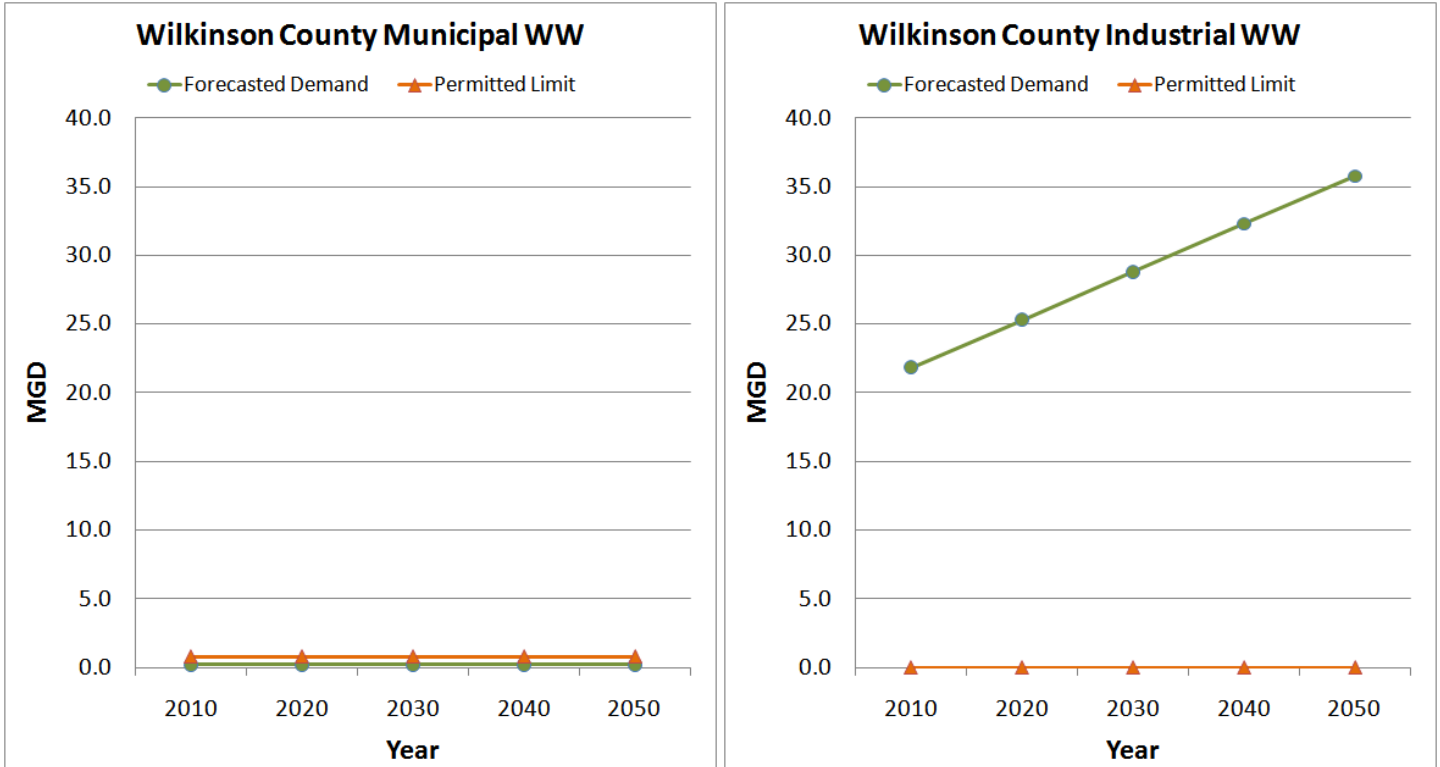


EXHIBIT 72:

WILKINSON COUNTY COMPARISON OF PERMITTED LIMIT AND FORECASTED FLOW-WASTEWATER SPLIT



Stone/clay industrial wastewater permits typically do not have flow-based limits, so the wastewater gap may be misleading. The exhibit above clarifies that municipal wastewater has no gap. The industrial wastewater shows a large gap, which is a result of the stone/clay industry not having flow-based limits to include in the permitted limit tabulation.

Existing Permits

Water

EXHIBIT 73:
WILKINSON COUNTY EXISTING WATER PERMITS

PERMIT	PERMITTED WITHDRAWAL LIMIT (MGD)	TYPE	PERMIT NO.
Surface Water Permits			
Engelhard Corporation	0.50	Industrial	158-0314-02
Engelhard Corporation	3.74	Industrial	158-0314-03
Agricultural(Crop irrigation, livestock, golf, nursery)	0.06	Agricultural	N/A
Surface Water Total	4.30		
Ground Water Permits			
Engelhard Corp - MidGa Plant	27.06	Industrial	158-0001
KaMin, LLC - Chambers Mine	3.15	Industrial	158-0010
IMERYYS Pigments & Add - Dry Branch-M8& M9	0.10	Industrial	158-0011
IMERYYS Pigments & Add - Dry Branch-M8& M9	0.90	Industrial	158-0012
KaMin, LLC - Wilkinson County Plant	0.60	Industrial	158-0013
Unimim Corporation - McIntyre Plant	0.14	Industrial	158-0015
Carbo Ceramics	0.58	Industrial	158-0016
Carbo Ceramics	0.52	Industrial	158-0017
International Paper Company - Gordon Wet Storage	0.72	Industrial	158-0019
Gordon, City of	0.40	Municipal	158-0005
McIntyre, City of	0.22	Municipal	158-0006
Irwinton, Town of	0.32	Municipal	158-0009
Agricultural(Crop irrigation, livestock, golf, nursery)	0.06	Agricultural	N/A
Ground Water Total	34.77		
Existing Permitted Limit Total	39.07		

Wastewater

EXHIBIT 74:
WILKINSON COUNTY EXISTING WASTEWATER PERMITS

PERMIT	PERMITTED TREATMENT LIMIT (MGD)	TYPE	PERMIT NO.
NPDES Point Source Permits			
J.M. Huber Corporation	NA	Industrial	GA0002551
Basf Catalysts LLC Wilkinson	NA	Industrial	GA0003131
Basf Catalysts LLC- Gordon	NA	Industrial	GA0003271
Imerys Kaolin Inc. - Mine 56d	NA	Industrial	GA0030848
Unimin Corporation	NA	Industrial	GA0037257
Gordon WPCP	0.75	Municipal	GA0020397
Wilkinson County High School	0.02	Municipal	GA0031291
Wilkinson County Elementary & Jr. High	0.02	Municipal	GA0031305
NPDES Total	0.79		
Existing Permitted Limit Total	0.79		

Planned Projects

No planned projects reported to date.