

Savannah-Upper Ogeechee Regional Water Planning Council Meeting November 7, 2019



Welcome and Introductions





Council Business



Council Business

- Approve meeting minutes from July 25, 2019 Council Meeting
- Approve today's meeting agenda
- Update discussion on Council membership



Today's Meeting Agenda

Georgia Water Planning Savannah-Upper Ogeechee Regional Water Council Meeting Agenda - November 7, 2019, 10:00 am <i>Meeting Agenda - November 7, 2019, 10:00 am Meeting Agenda - November 7, 2019, 10:00 am Meeting Collectives:</i> 1) Updates on Topics of Regional Interest 2) Highlight Grant Projects 3) View Regional Water Planning video 4) Update Council on Upcoming Technical Work and review Gap Analysis Technical Memo 5) Plan Topics for Future Meetings 9:30 a.m 10:00 a.m. Registration 10:00 a.m 10:15 a.m. Welcome and Introductions (Bruce Azevedo, Chair) 10:51 a.m 10:30 a.m. Council Business • Approve initudes - July 25, 2019 Council Meeting • Approve today's meeting agenda • Update discussion on Council membership 10:30 a.m 11:00 a.m. Council Updates (Lee Smith, CDM Smith) • Website Improvements • EERC Reliconsing updates • Seed Grant updates (Oscar Flite, City of Augusta and Lee Smith) • View Regional Water Planning video • Council Unformation - Forecasting & Population Projections (Bill Davis, CDM Smith and Jennifer Welte, EPD) 11:45 a.m 11:45 a.m. Technical Information - Ferocasting & Population Projections (Bill Davis, CDM Smith and Jennifer Welte, EPD) <th>Water Planning Savannah-Upper Ogeechee Regional Water Council Meeting Agenda - November 7, 2019, 10:00 am Meeting Objectices: 1) Updates on Topics of Regional Interest 2) Highlight Grant Projects 3) View Regional Water Planning video 4) Update Council on Upcoming Technical Work and review Gap Analysis Technical Memo 5) Plan Topics for Future Meetings 930 a.m 10:00 a.m. Registration 10:00 a.m 10:15 a.m. Welcome and Introductions (Bruce Azevedo, Chair) 10:15 a.m 10:30 a.m. Council Business - Approve today's meeting agenda - Update discussion on Council membership 10:20 a.m 11:00 a.m. Council Updates (Lee Smith, CDM Smith) - Website Improvements - EERC Relicensing updates - Seed Grant updates - Seed Grant updates - Seed Grant updates - Council Outreach 11:00 a.m 11:45 a.m. Technical Information - Forecasting & Population Projections (Bill De CDM Smith and Jennifer Welte, EPD) 11:45 a.m 12:30 p.m. Lunch/Speaker: Phinizy Center Overview (Ruth Mead)</th> <th></th> <th></th>	Water Planning Savannah-Upper Ogeechee Regional Water Council Meeting Agenda - November 7, 2019, 10:00 am Meeting Objectices: 1) Updates on Topics of Regional Interest 2) Highlight Grant Projects 3) View Regional Water Planning video 4) Update Council on Upcoming Technical Work and review Gap Analysis Technical Memo 5) Plan Topics for Future Meetings 930 a.m 10:00 a.m. Registration 10:00 a.m 10:15 a.m. Welcome and Introductions (Bruce Azevedo, Chair) 10:15 a.m 10:30 a.m. Council Business - Approve today's meeting agenda - Update discussion on Council membership 10:20 a.m 11:00 a.m. Council Updates (Lee Smith, CDM Smith) - Website Improvements - EERC Relicensing updates - Seed Grant updates - Seed Grant updates - Seed Grant updates - Council Outreach 11:00 a.m 11:45 a.m. Technical Information - Forecasting & Population Projections (Bill De CDM Smith and Jennifer Welte, EPD) 11:45 a.m 12:30 p.m. Lunch/Speaker: Phinizy Center Overview (Ruth Mead)								
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12:30 p.m 1:00 p.m. Technical Information - Resource Assessments and Gap Analysis	12:30 p.m. – 1:00 p.m. Technical Information - Resource Assessments and Gap Analysis								
Technical Memo (Bill Davis, CDM Smith and Jennifer Welte, EPD)	Technical Memo (Bill Davis, CDM Smith and Jennifer Welte, EPD)) p.m 1:00 p.m.							
1:00 p.m 1:15 p.m. Council Committee next steps (Bruce Azevedo, Chair)	1:00 p.m 1:15 p.m. Council Committee next steps (Bruce Azevedo, Chair)	0 p.m 1:15 p.m.	Council Committee next steps (Bruce Azevedo, Chair)						
1:15 p.m 1:30 p.m. Public Comments / Wrap-up and Adjourn	1:15 p.m 1:30 p.m. Public Comments / Wrap-up and Adjourn	5 p.m 1:30 p.m.	Public Comments / Wrap-up and Adjourn						

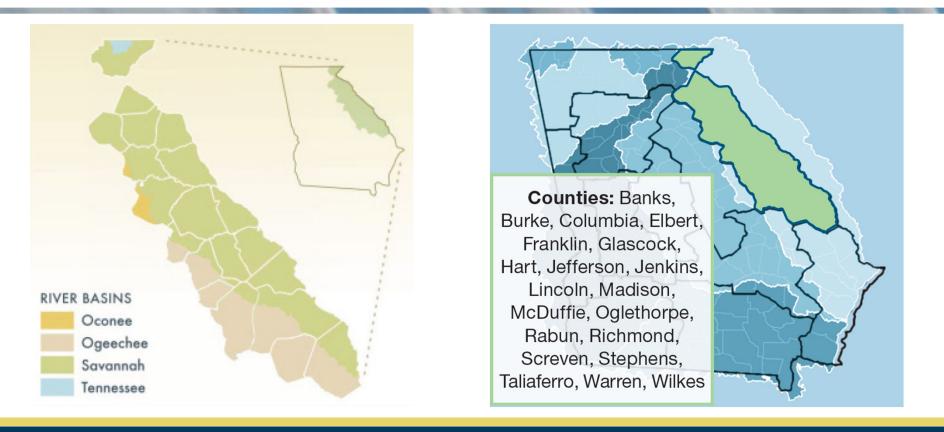
Location: Phinizy Center for Water Sciences 1858 Lock & Dam Road, Augusta, Georgia

- **10:00**
- 10:15-10:30
- 10:30-11:00
- 11:00-11:45
- 11:45-12:30
- 12:30-1:00
- 1:00-1:15
- 1:15-1:30

- Welcome & Introductions
- Council Business
- Council Updates
 - Forecasting and Population Projections
 - Lunch/Phinizy Ctr Speaker
 - Resource Assessment & Gap Analysis
 - Council Committees
 - Public Comments/Wrap Up



Update discussion on Council membership







Council Updates



Website Improvements

- Region-Specific Enhancements and Updates
 - Regional Water Plan
 - Regional Highlights
 - Technical Information
 - Implementation

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Wate Plannir		Forecasting	Resource Assessments	More Information				
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▼ Altamaha								
Regional Water Plan	Implementation of the Altamaha Regional Water Plan is carried out largely by the various water users and wastewater utilities in the region. Effective implementation of the Plan will require the availability of sufficient funding in the form of loans and grants. In addition, ongoing coordination and collaboration among stakeholders is crucial for successful implementation. The following provides an overview of some key implementation projects and funding sources within the Altamaha Region: GEFA Funding Projects The Georgia Environmental Finance Authority (GEFA) provides loans and grants in the region to support wastewater and drinking water related projects. In total \$12.8 million in loans have been provided toward clean water programs since 2015; \$8.7 million for drinking water programs since 2014, and \$4 million for the Georgia Fund since 2014.							
Regional Highlights								
Implementation								
Technical Information								
Council								
Vision and Goals								
▶ Coastal Georgia	319(h) Grant Funding							
▶ Coosa-North Georgia	These grant funds are provided via the Clean Water Act to implement nonpoint source management programs. Watershed Management Plans were completed in September 2018 for the Lower Oconee River and Ochwalkee Creek utilizing this funding source.							
Lower Flint-Ochlockonee								
Metro Water District								
Middle Chattahoochee	Loans to the Conservation Fund have been utilized for land acquisitions in the region allowing for the acquisition of the Sansavilla Wildlife Management Area (19,577 acres) and the Bullard Wildlife Management Area (11,000 acres) Jaycee Landing Project							
Middle Ocmulgee								
 Savannah-Upper Ogeechee Region 								
▶ Suwannee-Satilla	A strategic vision has been created for development of the Jaycee Landing and bluff area along the Altamaha River in Wayne county. The vision includes additional facilities at the landing as well as an associated Altamaha Nature and History Center. https://www.connectinwayne.com/pdf/Jaycee-Landing-Strategic-Vision.pdf Seed Grants							
▶ Upper Flint								
▶ Upper Oconee								
	Regional Water Plan Seed Gra governments and other water Regional Highlights for more i	r users as they under						

> Governor More Officials

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Website Improvements – Implementation Page

GEFA Funding Projects

- Clean water programs
- Drinking water programs
- Georgia Fund

319(h) Grant Funding

Clean Water Act driven grants to implement nonpoint source management programs.

Seed Grants

- Ongoing FY19 project
- Upcoming FY20 grants



FERC Relicensing Updates



Augusta Canal Headgates & Locks

- NMFS recently submitted filing regarding fish passage.
 - Does not require passage of sturgeon, but the fishway must be built to accommodate the Atlantic sturgeon in the future if desired.
 - City of Augusta has requested a consultation to discuss several minor issues, but this should clear the way for the FERC license to proceed.

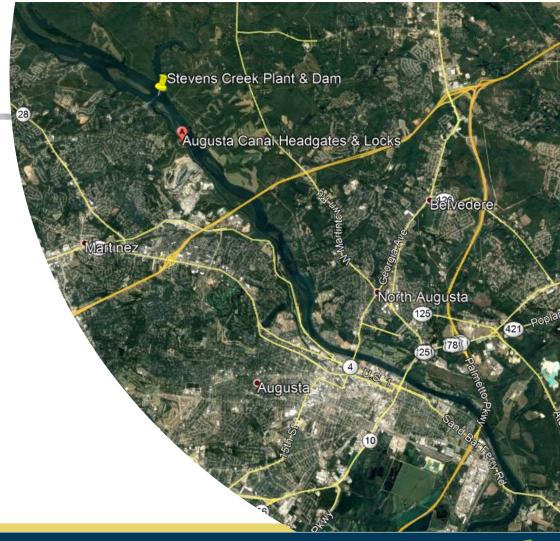
Stevens Creek Plant & Dam

Augusta Canal Headgates & Locks



Stevens Creek Dam

- Now in data gathering and study plan development phase.
- Present to the Council after May 2020 Pre-Application Document filing.
- RCG meetings on Nov 13, 2019 at Misty Lake Clubhouse:
 - Water Quality, Wildlife and Fish <u>9 am</u>
 - Lake, Land and Recreation <u>1 pm</u>
- For further information: <u>Kelly.Kirven@KleinschmidtGroup.com</u>



Seed Grant Projects

- FY19 Grant project: City of Augusta/Savannah Riverkeeper: Developing a real-time, publicly accessible water monitoring system in the Savannah-Upper Ogeechee Basins
 - Progress update: Tonya Bonitatibus (Savannah Riverkeeper) and Oscar Flite (City of Augusta)



Seed Grant Projects (cont'd)

- **FY20** Grant applications submitted within SUO Region:
 - UGA: Historical Analyses of in-stream water quantities for the Ogeechee, Savannah, Altamaha and Oconee River Basins
 - City of Augusta: High-frequency agricultural meter reading and hydrology study in the SUO Water Planning District
- GEPD is currently reviewing all applications.
- Next step is recommendations for grant awards.
- Estimated selection/notification timeframe: January 2020



Regional Water Planning Video





Council Outreach

- Opportunities
 - Local government meetings
 - Industry groups
 - Environmental groups
 - Service organizations



Background and Overview of Upcoming Technical Work for 2020-2022 Regional Water Plan Update Cycle

Part I: Forecasting & Population Projections



Background

Next plan update cycle wil²²egin in 2020

Initial focus areas will include:

- Updated population projections
- Updated water demand and wastewater forecasts
 Municipal, Industrial, Energy (thermoelectric) and Agricultural
- Updated Surface Water and Ground Water Availability Resource Assessments (Quantity)
- Updated Surface Water Quality / Assimilative Capacity Resource Assessment



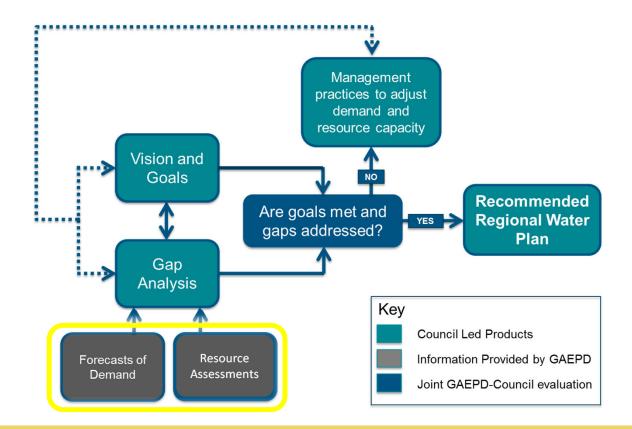
WJ31 Jennifer updated first bullet + subbullet for water demand/wastewater forecasts (so we note all 4 sectors) Welte, Jennifer, 11/5/2019

Purpose

- Re-familiarize Council with the key technical products that inform the water plan update
 - What analysis is performed?
 - How is the information used?
 - Why is it done like that?
 - How does it all fit together?
- Provide baseline for more refined discussions on items of interest or potential changes during the next cycle.



Regional Water Planning Process







Population Projections



www.georgiawaterplanning.org

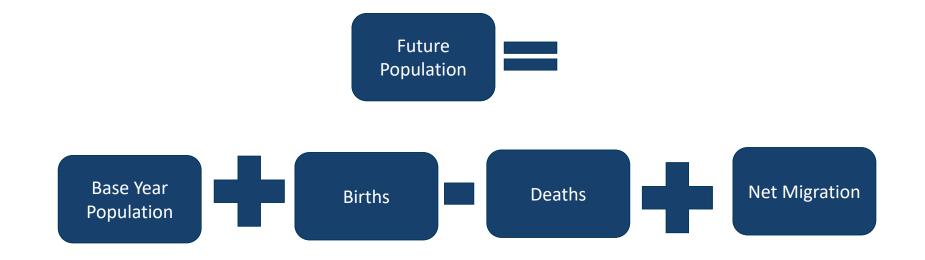
Updated Population Projections

- State and County population projections are prepared by the Governor's Office of Planning and Budget (OPB) <u>https://opb.georgia.gov/</u>
- Used consistently by all state agencies for multiple purposes
- Updated population projections will be used in the Plan review and revision process
- Population is dynamic and is an important input to planning



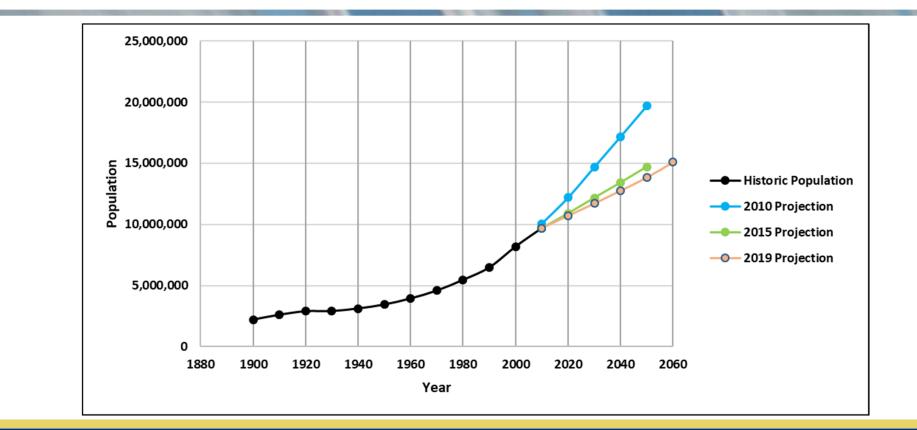
WJ32 Jennifer updated "Review and Revision" to "Plan review and revision" Welte, Jennifer, 11/5/2019

Basic Approach to Population Projections (The Cohort-Component Method)





Population Growth Revisions - Statewide

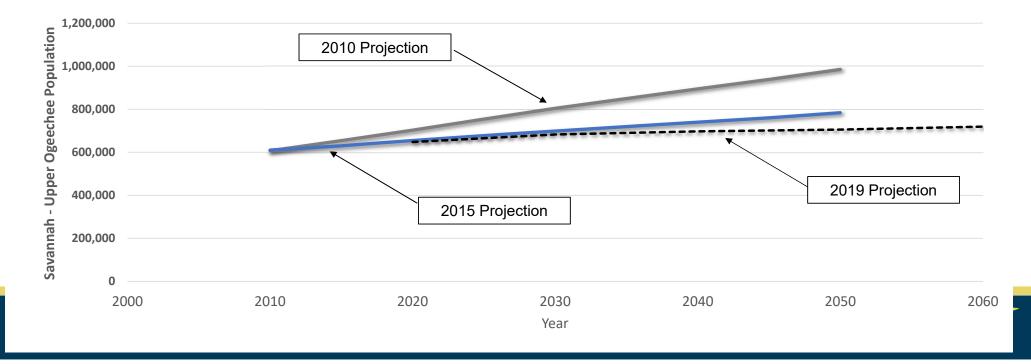




Population Growth Revision 2017 Regional Water Plan Update – SUO Council

- Population growth was refined during the last update showing 20% less projected population by 2050.
- The newest projections are similar to the previous round

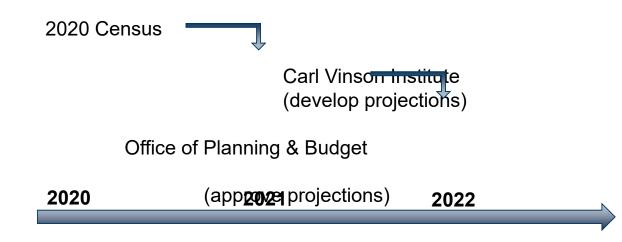
WJ33



WJ33 Jenny/Bill are updating this slide to add in the 2019 projection. We probably also need a handout for the Council of the 2019 County-level projections for 2020 - 2060 (in 5-year increments). Welte, Jennifer, 11/5/2019

Incorporating the 2020 Census

The 2020 Census timeline will not allow for incorporation into the population projections for the next update





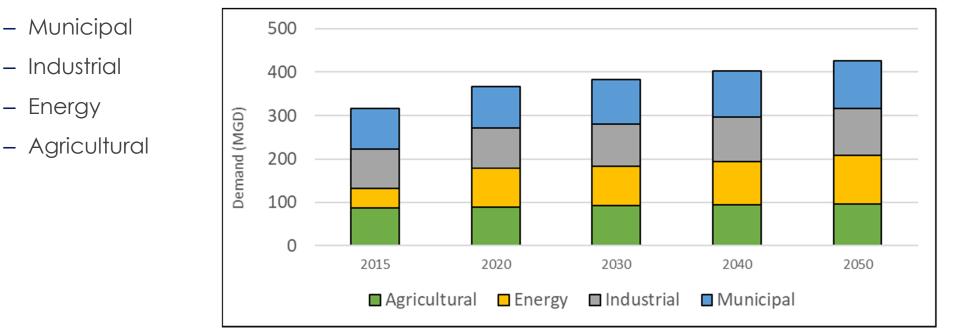


Water Demand Forecasts



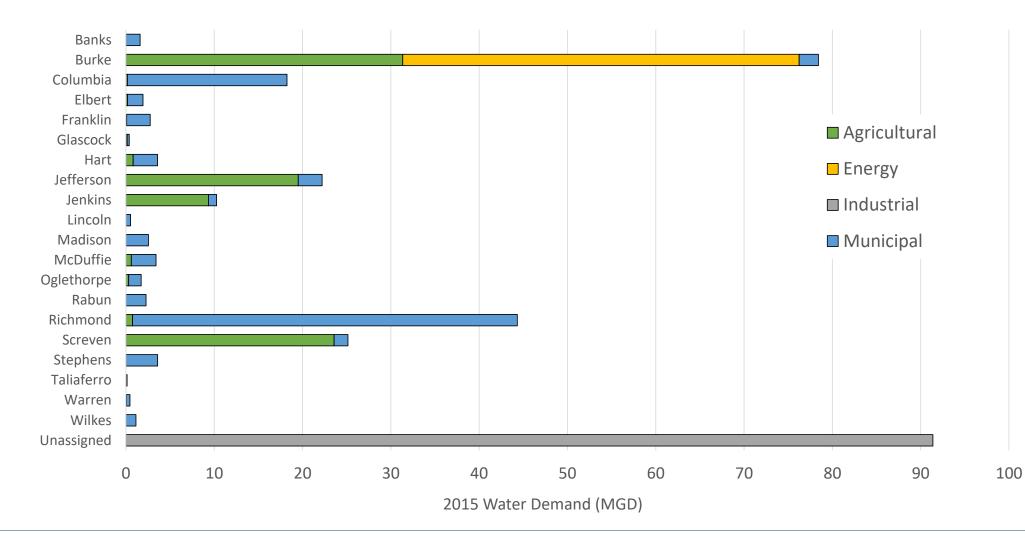
Water Demand for Savannah-Upper Ogeechee Region

Water Demand Forecasts are developed for 4 sectors:





vannah-Upper Ogeechee Water Demands by County



Slide 29

- **WJ34** Can you please make the legend larger, and increase the font sizes on the graph? Welte, Jennifer, 11/5/2019
- **WJ61** I'm confused about the "unassigned" industrial demand. It must be related to a facility(ies), so do we have any way to clear that up in this graph? Maybe by basin (with secondary legend)? Otherwise, I think this will bring up too many questions.

Welte, Jennifer, 11/5/2019

BJ16 We have industrial by industry type and surface water basin/ groundwater aquifer. Just not by county. The majority is Savannah Basin at Burton's Ferry and then Augusta nodes. Bywater, Jenny, 11/5/2019



Municipal Water Demand Forecast



Projecting Municipal Water Demand

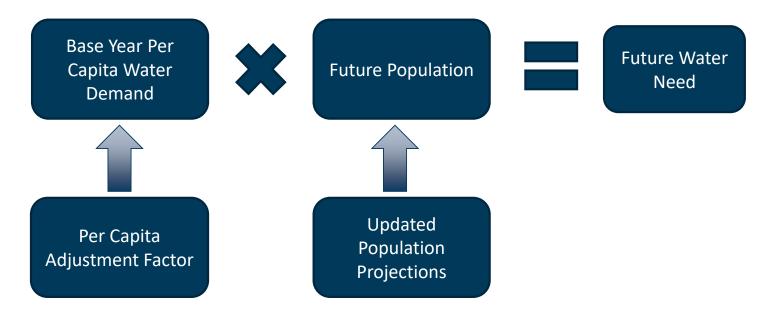
2011 Future Water Need:





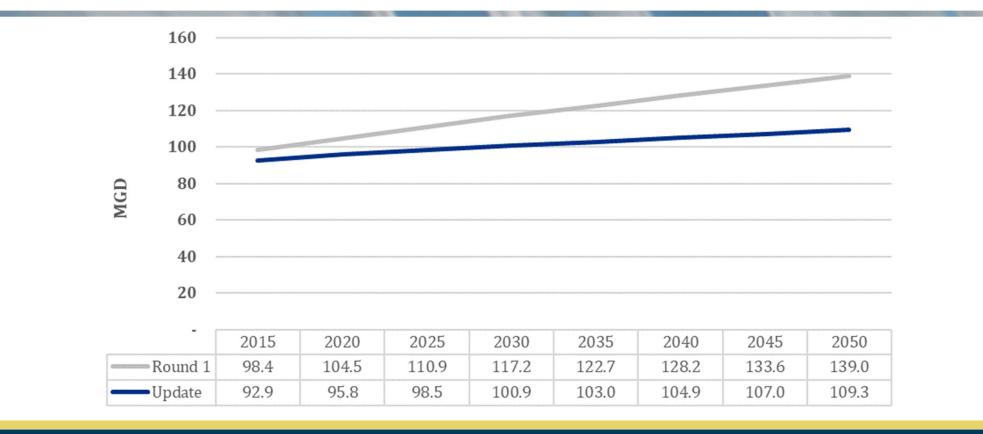
Projecting Municipal Water Demand

2017 Update with Adjustment Factor:





Change in Municipal Water Demand







Updating Per Capita Estimates



Using Water Audits to Calculate Per Capita

- Annual water audits are required by all water systems serving 3,300 people or more in Georgia since 2011/2012
- Water audits show the breakdown of water use from entering distribution system to customer meter
- Accounts for imported and exported water
- Quantifies water loss volumes



Per Capita Calculation

- Water supplied from water audit divided by population served from the State's Safe Drinking Water Information System (SDWIS) database
- Preliminary per capita values are calculated for each system (2011-2018)
- Weighted averages are calculated for each county with water systems serving population of 3,300 or more



WJ60 Changed second bullet to say "Preliminary per capita values" Welte, Jennifer, 11/5/2019



Preliminary Per Capita Estimates

Country	2011	2017		-				
County	RWP	RWP	2014	2015	2016	2017	2018	5-yr Avg
Banks	101	102	103	100	108	99	96	101.2
Burke	132	129	127	116	128	139	131	128.2
Columbia	153	134	136	133	142	129	124	132.8
Elbert	102	105	178	195	203	194	185	191
Franklin	164	161	98	100	112	119	128	111.4
Glascock	73	73	no systems serving more than 3,300					
Hart	154	158	132	136	138	147	153	141.2
Jefferson	169	163				275	279	277
Jenkins	101	107	126	114	122	122	82	113.2
Lincoln	67	66		41	55	53	60	52.25

*Not all counties have systems serving >3,300 people



Slide 37

WJ35 I think we should break this apart into two slides so that the headings and values can be viewed more easily. Also not sure we need to show all of these years, so trimming them down will also help. Perhaps start at 2014 or 2015? I might also help to show the Round 2 values in bold. Welte, Jennifer, 11/5/2019

BJ21 Done

Bywater, Jenny, 11/5/2019



Preliminary Per Capita Estimates

County	2011	2017		E A				
	RWP	RWP	2014	2015	2016	2017	2018	5-yr Avg
Madison	139	141	no systems serving more than 3,300					
McDuffie	107	104	111	111	114	114	111	112.2
Oglethorpe	94	100	no systems serving more than 3,300					
Rabun	168	164	166	171	150	153	148	157.6
Richmond	221	217	174	168	173	170	168	170.6
Screven	161	160				228	151	189.5
Stephens	144	146	101	89	144	140	145	123.8
Taliaferro	71	71	no systems serving more than 3,300					
Warren	73	72	no systems serving more than 3,300					
Wilkes	156	156	205	222	216	222	214	215.8



*Not all counties have systems serving >3,300 people

Slide 38

WJ35 I think we should break this apart into two slides so that the headings and values can be viewed more easily. Also not sure we need to show all of these years, so trimming them down will also help. Perhaps start at 2014 or 2015? I might also help to show the Round 2 values in bold. Welte, Jennifer, 11/5/2019

BJ20 Done

Bywater, Jenny, 11/5/2019



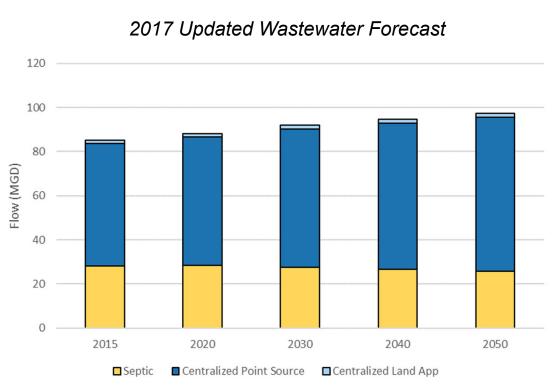
Municipal Wastewater Forecast



WJ36

Municipal Wastewater Forecast Update

 For the 2011 RWP, the municipal water demand served as the basis for estimating the municipal wastewater (WW) flows for each count





WJ36 Are we missing a bullet here re: 2017 approach? Might want to replace this bullet with a bullet that discusses the approach we took in 2017 instead (vs. going over the comparison). Welte, Jennifer, 11/5/2019



Industrial Water Demand Forecast





Industrial Water Demand Forecasts

- Industrial demands were not updated during the 2017 RWP update due to updated employment data not being available
- Industrial wastewater flows are identified by discharge method



Slide 42

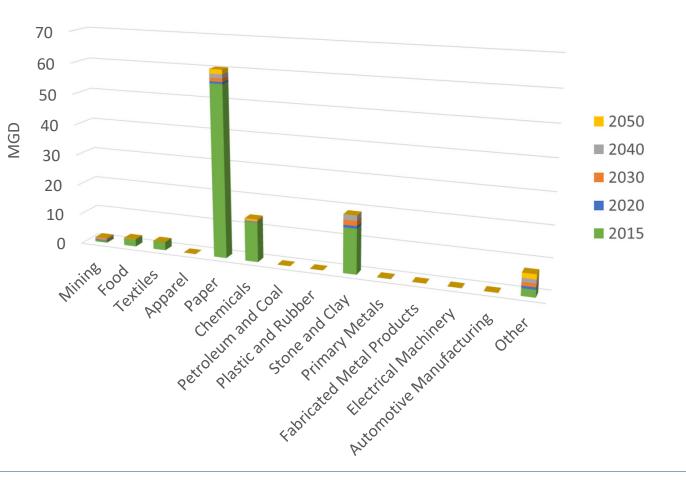
HD55 Bill to confirm bullets with Forecast TM

Honour, Danielle, 10/28/2019

BJ5 These seem general and accurate to me Bywater, Jenny, 10/30/2019

Industrial Water Demand for Savannah-Upper Ogeechee

Industrial water use in the Savannah-Upper Ogeechee Region is dominated by the paper industry, followed by chemicals and stone and clay.



Slide 43

- HD56 Jenny to update with SUO Honour, Danielle, 10/28/2019
 DWY2 did not find graph in TM Davis, William Y., 10/29/2019
 BJ6 I made a graph. The Coastal one was from the previous round TM but didn't have that for SUO Bywater, Jenny, 10/30/2019
 WU32 I triad measing text even and immediate search, but I still think the fonte and leavest eval due large
- WJ38 I tried moving text over and increasing graph, but I still think the fonts and legent could be larger (and maybe legend can be on top of the graph? Welte, Jennifer, 11/5/2019

Industrial Water Demand Forecast in Other States

STATE	Water Use	Driver	Comment
ARK	State database by NAICS by county	County employment by NAICS	Have county level employment projections
CAL	Total industrial water use by basins	Industrial employment by basin	Used linear regression to estimate future employment by basin
СО	Select large industry users by county	Held constant unless local information	No data for most counties
ОК	State database by NAICS by county	Percent growth of industrial employment by NAICS & County	Have county level employment projections
ТХ	State database by NAICS by county, calculate ratio of Industrial water use to industrial Gross Product by county	Projected growth of Industrial Gross Product by region	Hired consultant to project Industrial Gross Product by region

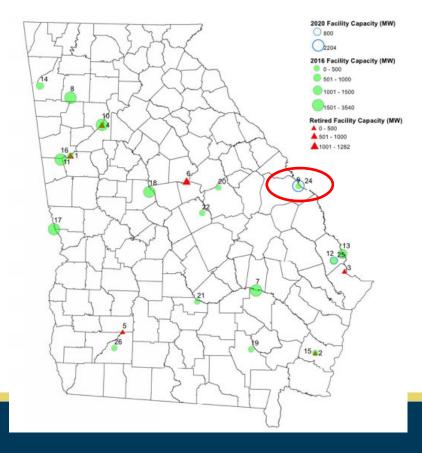




Energy Water Demand Forecast



2011 RWP - Thermoelectric Power Facilities in Georgia with Water Withdrawal Permits



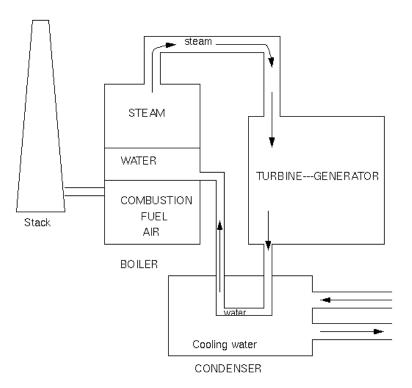
ID	Plant Name				
1	Plant Yates				
2	Plant McManus				
3	Plant Wentworth (Kraft)				
4	Plant McDonough				
5	Plant Mitchell				
6	Plant Harlee Branch				
7	Plant Hatch				
8	Plant Bowen				
9	Plant Vogtle				
10	Plant McDonough				
11	Plant Yates				
12	Effingham County Power Project Plant McIntosh				
13					
14	Plant Hammond				
15	Plant McManus				
16	Plant Wansley				
17	Plant Franklin (in AL)				
18	Plant Scherer				
19	Georgia Biomass				
20	AL Sandersville				
21	Washington County Power				
22	Blue Ridge Energy Development				
23	Crisp County Rower Comm				
24	Plant Vogtle				
25	Effingham County Power Project				
26	Gum Power Plant				



Bill to update and adjust for SUO Honour, Danielle, 10/28/2019 HD57

Water Requirements for Energy Generation

- Variables for calculations
 - Fuel type (coal, natural gas, nuclear)
 - Prime Mover (thermal energy into mechanical energy)
 - Cooling type (single pass vs. evaporative)



Energy Forecasting Methodology

- Each power facility has a unique water-to –power-toproduction signature
- Statewide, each facility contributes a unique portion to the entire power portfolio
- The relative contribution of each facility can change over time as facilities retire or are brought on-line
- This information is used along with total power production (est. from population projections) to determine statewide & regional water needs out to 2050



Savannah-Upper Ogeechee Energy Forecast Review

Demand Type	2015	2020	2030	2040	2050
Withdrawals (MGD)	70	138	140	155	175
Consumption (MGD)	45	89	91	100	114

*Assumes new units at Plant Vogtle come online by 2020

WJ39



WJ39 I updated the footnote to note assumption by 2020 (that may not be the reality). Welte, Jennifer, 11/5/2019



Agricultural Water Demand Forecast



WJ41

Agricultural Water Demand Forecast

- Approach: Look to past trends and consider foreseeable changes
- Irrigated acreage
 - Baseline USDA Census of Agriculture (2012); linked to 2015 irrigated acres
- Crop water needs
 - Wet, normal and dry year estimated y crop/soil/county
 - Estimates informed by metering data
 - Aggregated spatially to 2015 irrigated acreage
- Crop projections through 2050 modeled based on multiple data sources:
 - Average of: USDA Projections, Southeast Model, Georgia Model



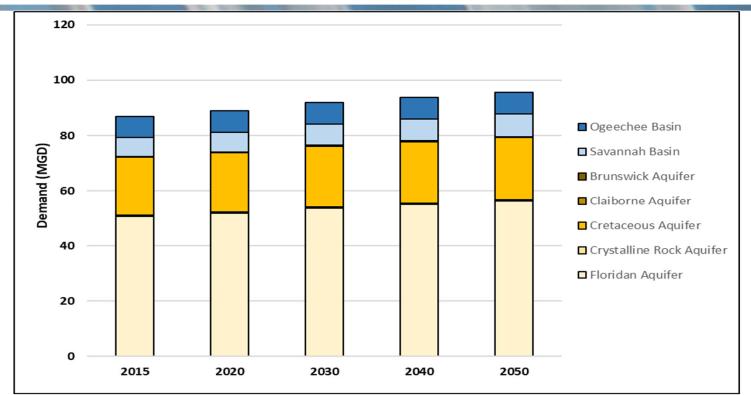
Slide 51

- **WJ40** I added another subbullet re: metering data. Welte, Jennifer, 11/5/2019
- WJ41 Bill, please also be sure to note here that we are just speaking to irrigated acreage. The total agricultural water demand also includes container nurseries and animal water use. Welte, Jennifer, 11/5/2019

WJ42

Savannah-Upper Ogeechee Agricultural Water Demand

- Agricultural water demand is focused in Burke, Screven, Jefferson & Jenkins counties
- Demand is met through surface water (i.e. river basins) and groundwater





WJ42 I moved text over and increased the size of this graph. Welte, Jennifer, 11/5/2019









Phinizy Center Overview





Background and Overview of Upcoming Technical Work for 2020-2022 Regional Water Plan Update Cycle

Part II: Resource Assessments and Gap Analysis





Resource Assessment



Savannah-Upper Ogeechee Region Resource Assessments

Current & Future Conditions

- Groundwater availability
- Surface water availability
- Surface water quality

- Compare resource to demands to determine if there are potential gaps in current or future water availability or water quality
- Findings durated in the Gap Analysis Technical Memo





WJ43 Bill, please note here that the Gap Analysis TM was just completed and will be emailed to the Council for their review prior to posting on their website. Welte, Jennifer, 11/5/2019



Groundwater Availability



waterplanning.georgia.gov

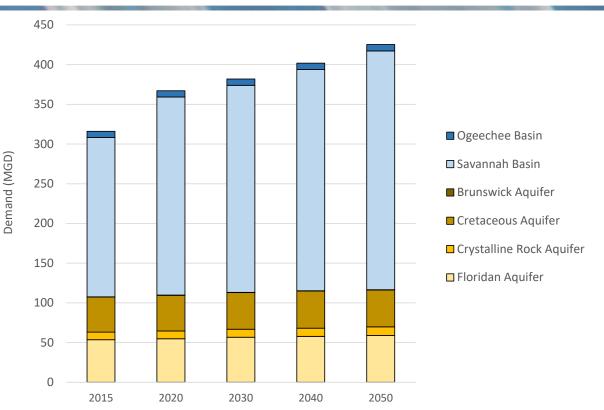
Savannah-Upper Ogeechee Region Groundwater Availability Assessment

 Groundwater currently supplies ~34% of the projecter egional water demand.

<mark>ыр62</mark> ВЈ7

- Of the projected 109 MGD of increased future water use only 9 MGD is projected to come from groundwater
- The major aquifers utilized are the Floridan,

Cretaceous and some Crvstalline Rock





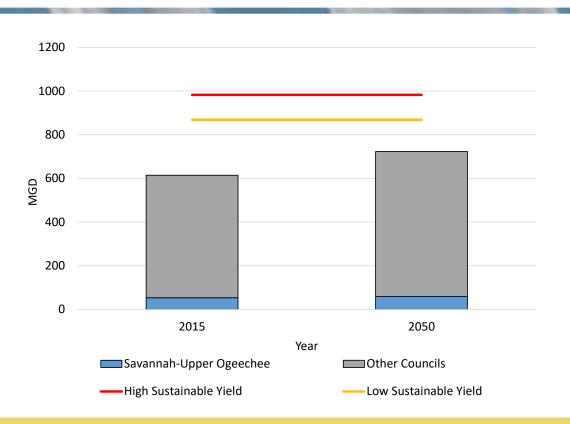
HD62	Jenny to update bullets and graphic for SUO
	Honour, Danielle, 10/28/2019

BJ7 Updated Bywater, Jenny, 10/30/2019

WJ45 I move the text over and increased the graph. Welte, Jennifer, 11/5/2019

Groundwater Modeling of the Floridan Aquifer

Floridan Aquifer model boundaries used in the Groundwater Resource Assessment for determining sustainable yield Regionally, there is sufficient Lundwater to **R**110 BJ15

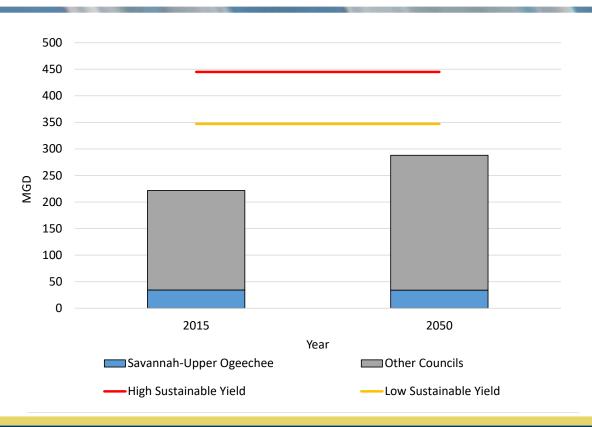




HD63	Jenny to modify bullets for SUO. Please see if any other slides can be added for GW based on Gap TM as I think the next few slides are not applicable and can be deleted. Honour, Danielle, 10/28/2019
BJ8	l updated figure and text to be more general Bywater, Jenny, 10/30/2019
BJ9	Agree the slides on red zone/ yellow zone could be removed and removed them. Bywater, Jenny, 10/30/2019
BJ10	Replaced with some slides on the other aquifers Bywater, Jenny, 10/30/2019
BJ15	There is now annimation on this slide Bywater, Jenny, 11/1/2019
WJ46	I added "and future" to the final bullet Welte, Jennifer, 11/5/2019

Groundwater Modeling of the Cretaceous Aquifer

- Cretaceous Aquifer model boundaries used in the Groundwater Resource Assessment for determining sustainable yield
- Regionally, there is sufficient groundwater to meet current and future people





WJ47 I added "and future" to the last bullet Welte, Jennifer, 11/5/2019

Groundwater Modeling of the Crystalline-Rock Aquifer

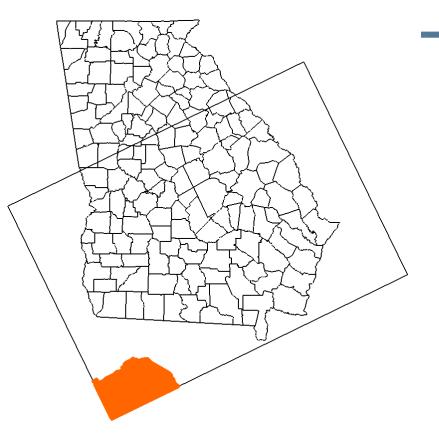
- Only small portions of the Crystalline-Rock aquifer were modeled
- A low range sustainable yield of 0.01 MGD per square mile area was estimated which is ~40 MGD for the modeled area
- The 2050 demands are projected to remain under the estimated range of sustainable yield for this





Groundwater Availability Modeling

- The modeling tool used to analyze groundwater availability has been updated
 - "Coastal Plain of Georgia" modeling domain
- Grid spacing has been reduced, from 5,280' to 1,760'
 - Decreasing grid spacing allows for a more refined look at the impact of withdrawals
- The modeling tool can now be run in transient mode, to analyze time-







Surface Water Availability



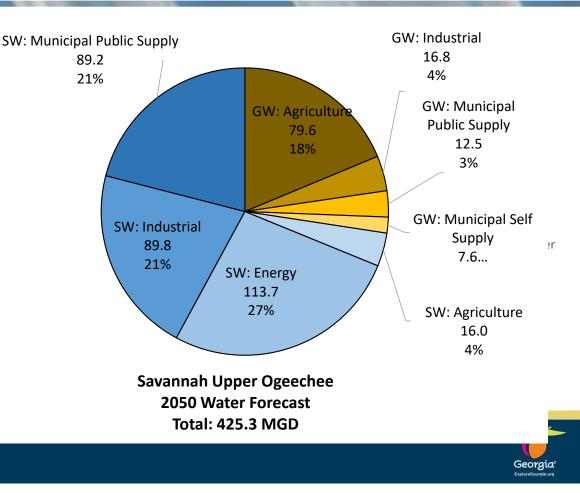
waterplanning.georgia.gov

Savannah-Upper Ogeechee Region Surface <mark>ыр62</mark> ВЈ7 Water Supply

Surface water supply comes primarily from the Savannah River basin

WJ48

- Surface water accounts for ~70% of water demands
- Surface water serves multiple demands types with the largest growth



- HD62 Jenny to update bullets and graphic for SUO Honour, Danielle, 10/28/2019
- BJ7 Updated Bywater, Jenny, 10/30/2019
- **WJ48** I increased the graph and font sizes, and moved text over on this slide. Welte, Jennifer, 11/5/2019

Surface Withdrawals by County and Region

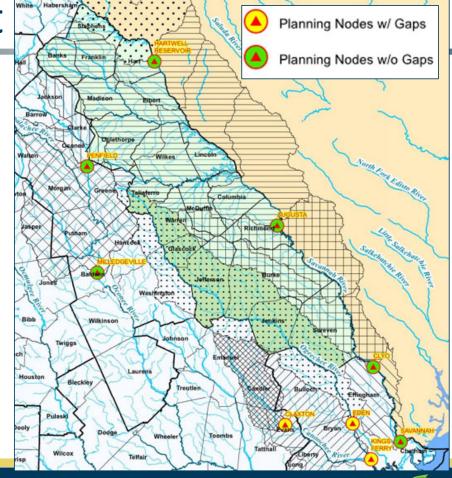
- Acreages of each County within the local drainage area (LDA) by planning node were determined
- Areas irrigated with surface water by County within the LDA assigned to planning node were determined
- 2050 forecasted surface water withdrawals for portion of County assigned (drains to) planningw149pde within LDA were available from forecasting and resource assessment work



WJ49 I shortened the language in the last part of this bullet Welte, Jennifer, 11/5/2019

Water Availability Assessment

- Surface water availability was assessed at locations with longterm records of flow, WJ50th streamflows modeled under current and future conditions
- A potential gap occurs when streamflow is projected to fall below specified low flow levels^{WJ51}
- Potential gaps in streamflow identified on the Ogeechee River at the Eden and King's Ferry node and on the Canoochee River at the Claxton node



HD67	Jenny to update graphic and text for SUO Honour, Danielle, 10/28/2019
BJ11	Updated grahpic, text and notes Bywater, Jenny, 10/31/2019
WJ50	Changed "measurements" to "flow" in the first bullet Welte, Jennifer, 11/5/2019
14/151	Changed "targets for instream uses" to "specified low flow

- WJ51 Changed "targets for instream uses" to "specified low flow levels" Welte, Jennifer, 11/5/2019
- **WJ53** I removed the bullet in the talking points about the Canoochee, as the SUO regional use is too small a percentage at that node. I reworded to focus on the Ogeechee and added the next slide as well. Welte, Jennifer, 11/5/2019

Ogeechee River, Eden Node

Councils and Associated Counties That Are Within in the Local Drainage Area with	Total 2050 Forecasted Surface Water Demand at Planning Node Summarized by Sector (MGD)	2050 Potential Gap Information: Average Daily Flow Deficit per Gap Event Summarized by Planning Node		2050 Forecasted Surface Water Withdrawals Summarized by Planning
Potential Gaps		1-7 Day Duration	8-14 Day Duration	Council (MGD)
Ogeechee River				
Altamaha - Emanuel	Agriculture: 0.05			0.05
Coastal Georgia – Bryan, Bulloch, Effingham	Agriculture: 1.29	7 MGD (11 cfs)	10 MGD (15 cfs)	1.29
Savannah-Upper Ogeechee –	Agriculture: 7.7			
Burke, Glascock, Jefferson, Jenkins, Screven, Taliaferro, Warren	Municipal Water: 0.17	61.1% of all potential gap	16.7% of all potential gap	7.87
Upper Oconee – Greene, Hancock, Washington	Agriculture: 1.42	events	events	1.42
			Total:	10.64



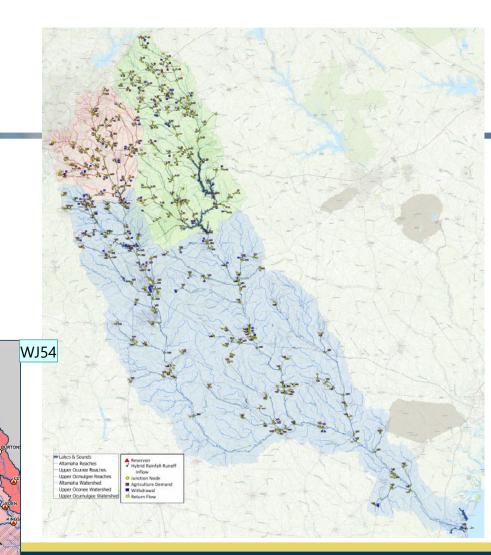
WJ52 Jenny, can you please add the table used in the Gap Analysis TM for the Eden node here (Table 4-5)? Welte, Jennifer, 11/5/2019

BJ17 Added

Bywater, Jenny, 11/5/2019

Surface Water Availability Resource Assessment

- Developing finer-scale hydrologic models (nodes at discharge and withdrawal points, at reservoirs and at flow gages)
- Starting with Oconee
 Ocmulgee and Altar
 basins



WJ54 Jennifer added this slide and can cover it during the meeting. Welte, Jennifer, 11/5/2019



Water Quality



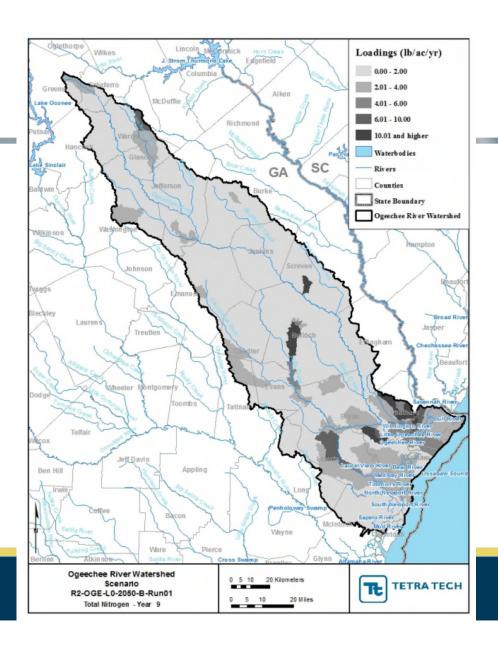
waterplanning.georgia.gov

Current Assimilative Capacity Assessment

- Develop Models
- Use available data & conservative assumptions
- Calibrate models to existing conditions
- Evaluate models using current permits
- Determine available assimilative capacity
- Determine areas of concern







Round 2 of the State Water Plan

- Multiple models used including:
- DOSAG (streams)
- RIV1 (Rivers)
- GA ESTUARY (Estuaries)
- Lakes/Estuaries
- Watershed Models
- Nutrient Loading



HD68 Jenny to update graohic for SUO. This is an animated slide so check graphics underneath. Honour, Danielle, 10/28/2019 **BJ12** This graphic is still relevant for SUO. Figure below is also state-wide and relevant Bywater, Jenny, 10/31/2019 WJ55 I removed the acronyms for the lake/estuary models and added "watershed models". I also modified the

talking points, adding an update about work completed on the upper Savannah basin. (Bill, I can help with this if needed.)

Welte, Jennifer, 11/5/2019

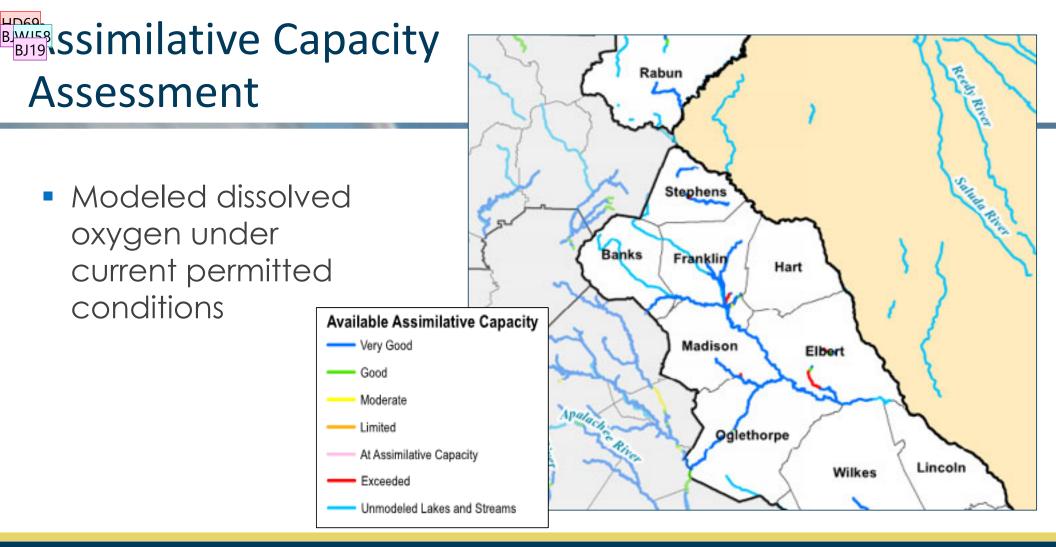
Slide 72

Future Assimilative Capacity Assessment

- Evaluate models using future permitted flow
 Increased Flows (Q)
- Incorporate model assumptions regarding future permits limits designed to meet water quality standards
 - Tighter BOD Limits (maintain load, Q x Concentration)
 - New or Tighter Ammonia (NH3) Limits
 - New or Tighter Dissolved Oxygen Limits
- Future land use changes

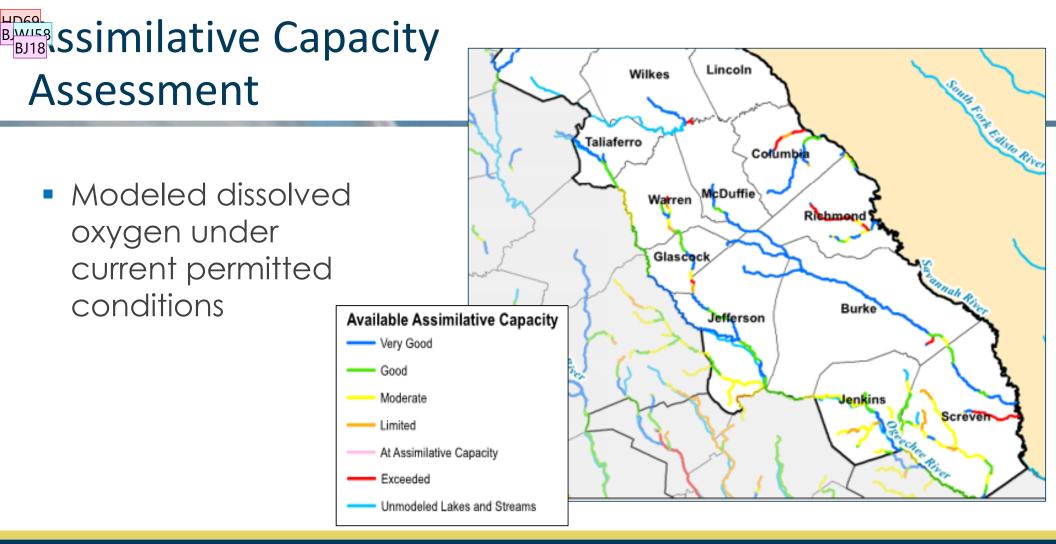


WJ56 Edited last bullet to add word "Future" Welte, Jennifer, 11/5/2019





HD69	Jenny to update for SUO Honour, Danielle, 10/28/2019
BJ13	Updated Bywater, Jenny, 10/31/2019
WJ58	This is very hard to read; I would recommend breaking this apart into two slides; northern half of region and southern half of region. Welte, Jennifer, 11/5/2019
BJ19	Done Bywater, Jenny, 11/5/2019

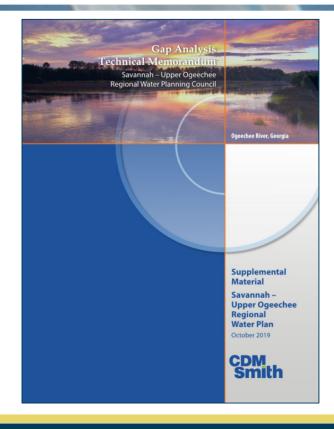




HD69	Jenny to update for SUO Honour, Danielle, 10/28/2019
BJ13	Updated Bywater, Jenny, 10/31/2019
WJ58	This is very hard to read; I would recommend breaking this apart into two slides; northern half of region and southern half of region. Welte, Jennifer, 11/5/2019
BJ18	Done Bywater, Jenny, 11/5/2019

Gap Technical Memorandum

- Summary comparing forecasted demands to available resources
 - Water and wastewater forecasts for regional surface and groundwater resources
 - Identification of known existing permit capacity in relationship to forecasts
 - Water quality considerations
- Document will be wise ailed to Council members, then made available via the SUO region





WJ59 I edited the last bullet here. Welte, Jennifer, 11/5/2019



Council Committee Next Steps



waterplanning.georgia.gov

Public Comments



Next Meeting Date & Topics



Thank You!

Questions? Comments? Need More Information?

<u>Haydn.Blaize@dnr.ga.gov</u> <u>smithla@cdmsmith.com</u>

