

**2020 Annual Report on Interbasin Transfers
for
The Cities of Concord and Kannapolis**

Prepared for and by:

City of Concord



City of Kannapolis



Submitted to:

North Carolina Division of Water Resources

February 2021

Executive Summary

The 2020 Annual Report on Interbasin Transfers (IBTs) for the Cities of Concord and Kannapolis (Cities) includes monitoring data for daily tracking of IBT amounts and documentation of compliance with all IBT Certificate conditions. Annual reports were previously prepared for calendar years 2007 through 2019 and are available on the North Carolina Division of Water Resources (NCDWR) website. The reports for earlier years can be found at the following website: <https://deq.nc.gov/node/82755>.

The North Carolina Environmental Management Commission (EMC) approved the Cities' IBT Certificate in January 2007 authorizing transfers of up to 10 million gallons per day (mgd) from the Catawba River Basin to the Rocky River Basin and 10 mgd from the Yadkin River Basin to the Rocky River Basin. Additionally, a grandfathered IBT of 6 mgd authorizes transfer from Second Creek, located in the South Yadkin River Basin, to the Rocky River Basin. The terms "Cities" and "Certificate Holders" are used interchangeably herein.

In 2020, the Certificate Holders complied with all conditions of their IBT Certificate. The Cities of Concord and Kannapolis had a maximum daily transfer from the Catawba River Basin of 1.83 mgd during 2020. The maximum daily transfer from the Yadkin River Basin was 4.49 mgd.

In 2020, the City of Kannapolis pumped water from Second Creek to Kannapolis Lake under its South Yadkin River Basin grandfathered IBT. The maximum daily transfer under the grandfathered IBT from the South Yadkin River Basin to the Rocky River Basin in 2020 was -0.19 mgd. The 2020 IBT daily transfers for Concord and Kannapolis are shown in Figure ES-1.

In addition, a settlement was reached in 2010 on a lawsuit filed by the Catawba River Foundation, Inc. and the Protect the Catawba Coalition. While this does not change the IBT Certificate or required reporting in any way, the Cities did agree to some operational conditions regarding the Catawba River Basin during times of drought.

Table ES-1

2020 IBT Average Annual & Maximum Day Demands for Concord and Kannapolis Service Areas

Year	Catawba River Basin			Yadkin River Basin			Second Creek ^{c,d} (South Yadkin River Basin)		
	Water Purchase (mgd)		IBT as % of Certificate ^a	Water Purchase (mgd)		IBT as % of Certificate ^{b,c}	Water Transfer (mgd)		IBT as % of Grand- fathered amount
	Average Annual	Max. Day	Max. Day	Average Annual	Max. Day	Max. Day	Average Annual	Max. Day	Max. Day
2020	0.006	1.83	18.32%	3.46	4.49	44.90%	-0.27	-0.19	-3.10%

^a Maximum Day IBT of 10 mgd from the Catawba River Basin.

^b Maximum Day IBT of 10 mgd from the Yadkin River Basin.

^c The grandfathered 6-mgd Maximum Day IBT limit from Second Creek (South Yadkin River Basin) into the Rocky River Basin is not included in the 10-mgd Maximum Day IBT limit for the Yadkin River Basin.

^d There was no transfer from Second Creek, therefore these numbers are negative.

2020 Daily IBT Per Basin (mgd)

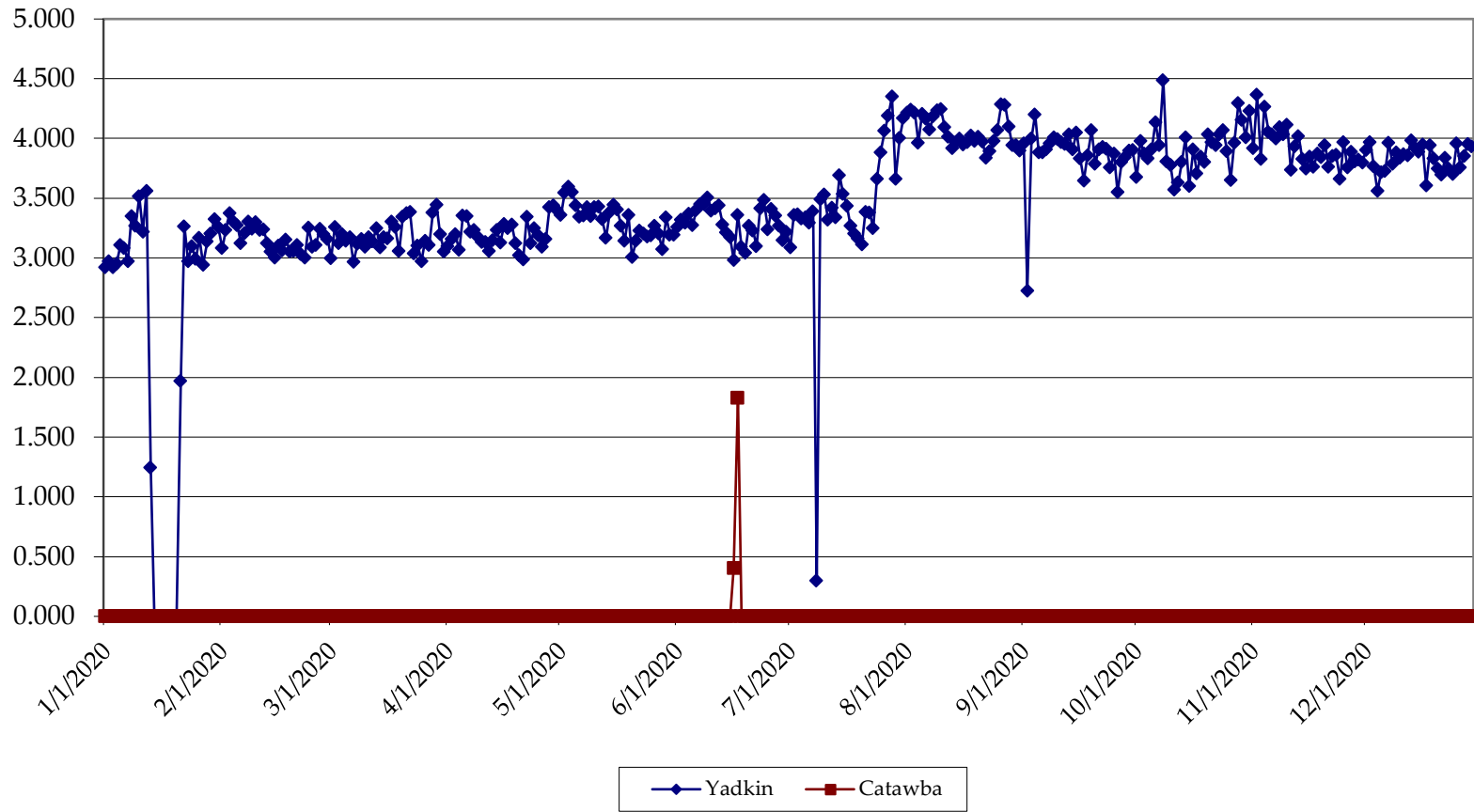


Figure ES-1
2020 Daily Interbasin Transfers by Basin

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Daily Interbasin Transfer Amounts for 2020

Acronyms and Abbreviations

DMAC	Drought Management Advisory Council
EMC	Environmental Management Commission
FERC	Federal Energy Regulatory Commission
IBT	Interbasin Transfer
LIP	Low Inflow Protocol
mgd	million gallons per day
NCDWR	North Carolina Division of Water Resources
WSRP	Water Shortage Response Plan
WTP	Water Treatment Plant

1.0 - Introduction

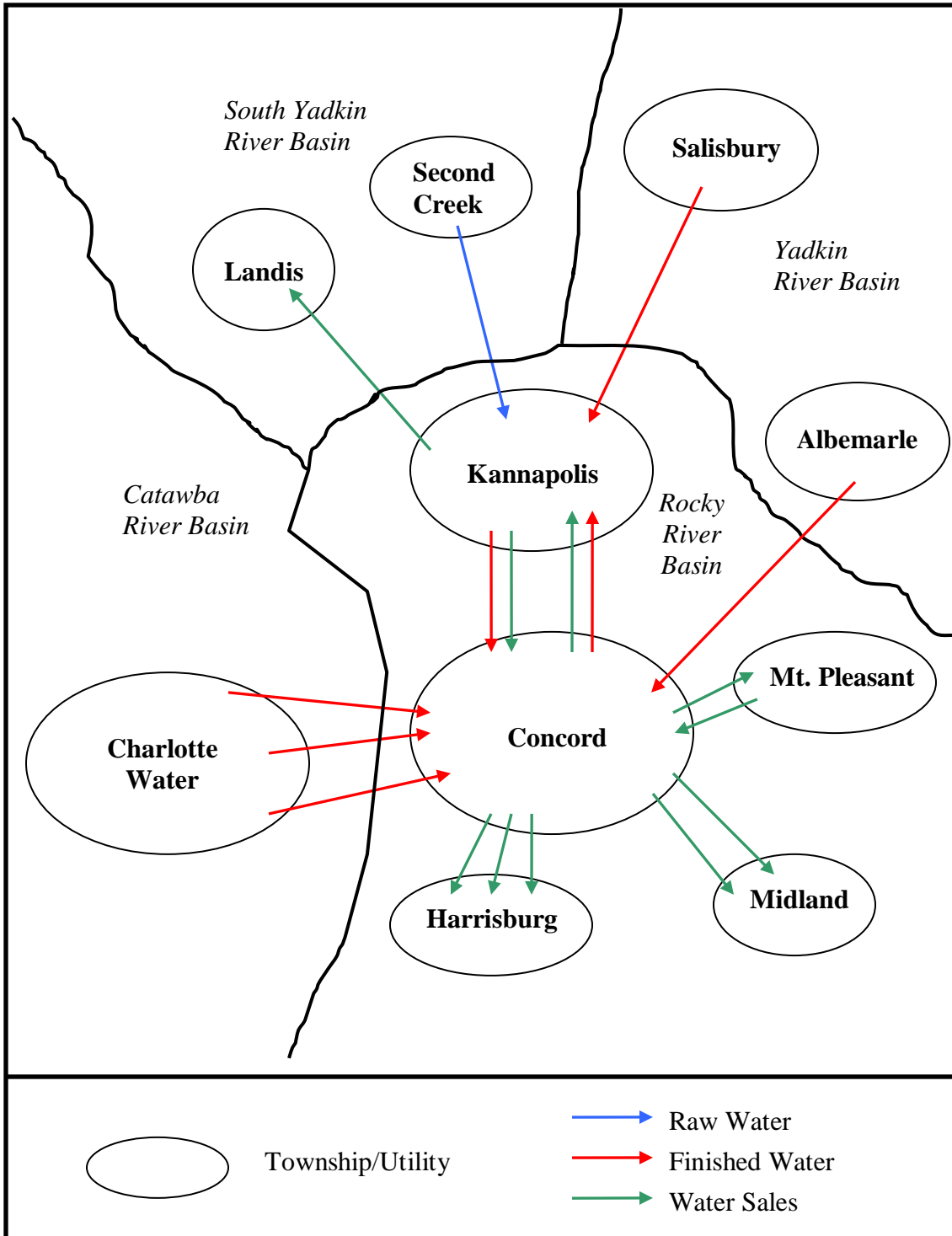
The Cities of Concord and Kannapolis (Cities) received an interbasin transfer (IBT) Certificate, which was originally approved on January 10, 2007, and signed into effect on January 25, 2007. The North Carolina Environmental Management Commission (EMC) has authorized transfers of up to 10 million gallons per day (mgd) from the Catawba River Basin to the Rocky River Basin and 10 mgd from the Yadkin River Basin to the Rocky River Basin. As a condition of the IBT Certificate, the Cities are required to produce an Annual Report that documents transfers over the past year. Annual reports were also prepared for calendar years 2007 through 2019 and are available on the North Carolina Division of Water Resources (NCDWR) website. The reports for earlier years can be found at the following website: <https://deq.nc.gov/node/82755>.

The Cities provide water to each other, various municipalities in the area (including: Mount Pleasant, Midland, Harrisburg, and Landis), and unincorporated areas of Cabarrus County. Concord owns and operates the water distribution system used by the Town of Midland. Charlotte Water and the City of Salisbury currently have contracts to provide water to the Cities from the Catawba and Yadkin River Basins, respectively.

The terms “Cities” and “Certificate Holders” are used interchangeably herein. Figure 1-1 illustrates the ability to transfer water among the Certificate Holders and all municipalities served by the Certificate Holders.

Figure 1-1

Water Connections of the Certificate Holders and All Municipalities Served by the Certificate Holders



2.0 - IBT Monitoring

2.1 - Service Area Water Demand

Table 2-1 presents 2020 annual average water production for the Certificate Holders based on finished water produced at the Hillgrove, Coddle Creek, and Kannapolis Water Treatment Plants (WTPs). It also shows finished water purchases from Charlotte Water, the City of Salisbury and the City of Albemarle, if they occurred. Additionally, Table 2-1 presents the 2020 annual average IBT (or water purchases) from each basin covered by the IBT Certificate and from Second Creek, from which transfers are authorized by a grandfathered IBT. In 2020, finished water production averaged 12.87 mgd, purchased IBT finished water averaged 0.006 mgd for Catawba River Basin, 3.46 mgd for the Yadkin River Basin and -0.27 mgd for Second Creek. The combined 2020 annual average water use for the Certificate Holders was 16.07 mgd.

Table 2-1

2020 Water Production or Purchases by River Basin

2020					
Certificate Holders	Annual Average Finished Water Produced ^a (mgd)	Annual Average Purchased Water (mgd)			Annual Average Combined Water Use (mgd)
		Catawba River Basin ^b	Yadkin River Basin	Second Creek	
Concord & Kannapolis	12.87	0.006	3.46	-0.27	16.07

^a Water produced within Rocky River Basin; may include water from Second Creek transferred directly into Kannapolis Lake.

2.2 - Interbasin Transfers

Daily IBT amounts for the Certificate Holders are included in the Appendix. Data is provided for the period January 1, 2020 through December 31, 2020. The maximum day IBT from the Catawba River Basin during the calendar year 2020 was 1.83 mgd. This represents 18.32% of the permitted maximum day, 10 mgd IBT from the Catawba River Basin under the Certificate approved by the EMC in January 2007. The maximum day IBT from the Yadkin River Basin during the calendar year 2020 was 4.49 mgd. This represents 44.90% of the permitted maximum day, 10 mgd IBT from the Yadkin River Basin under the Certificate. There were transfers of water to Second Creek with a maximum day IBT -0.19 mgd, which represents -3.10% of the permitted maximum day, 6 mgd IBT from the South Yadkin River Basin under the grandfathered Certificate. Table 2-2 shows the IBT use for the Certificate Holders and the percentage of use from the Catawba and Yadkin River Basins.

Table 2-2

2020 IBT Average Annual & Maximum Day Demands for Concord and Kannapolis Service Areas

Year	Catawba River Basin			Yadkin River Basin			Second Creek ^{c,d} (South Yadkin River Basin)		
	Water Purchase (mgd)		IBT as % of Certificate ^a	Water Purchase (mgd)		IBT as % of Certificate ^{b,c}	Water Transfer (mgd)		IBT as % of Grand-fathered amount
	Average Annual	Max. Day	Max. Day	Average Annual	Max. Day	Max. Day	Average Annual	Max. Day	Max. Day
2020	0.006	1.83	18.32%	3.46	4.49	44.90%	-0.27	-0.19	-3.10%

^a Maximum Day IBT of 10 mgd from the Catawba River Basin.

^b Maximum Day IBT of 10 mgd from the Yadkin River Basin.

^c The grandfathered 6-mgd Maximum Day IBT limit from Second Creek (South Yadkin River Basin) into the Rocky River Basin is not included in the 10-mgd Maximum Day IBT limit for the Yadkin River Basin.

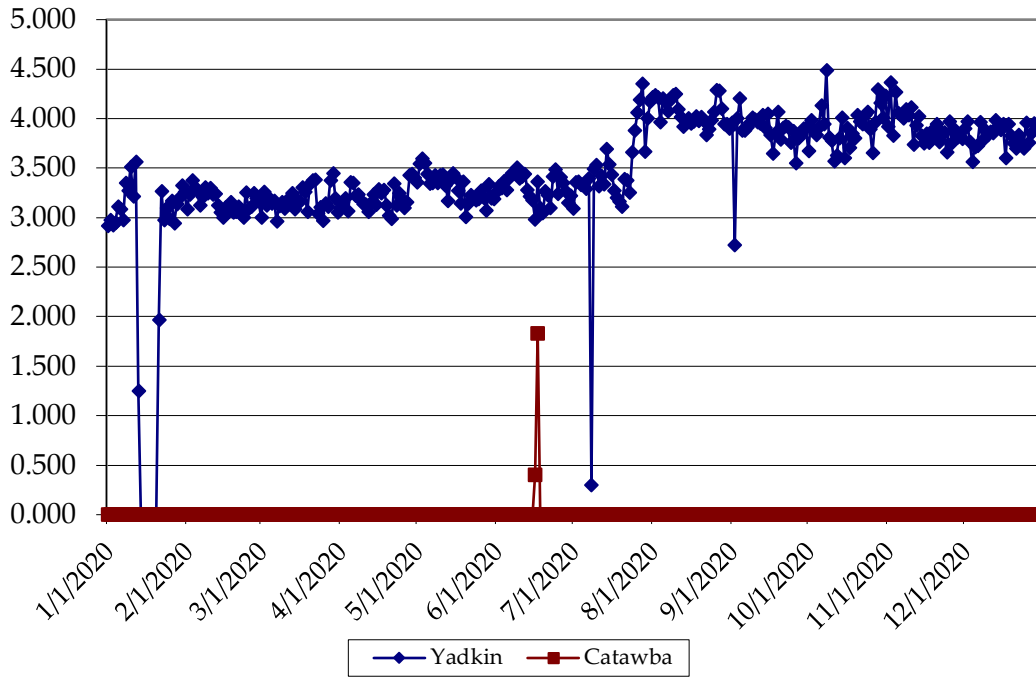
^d There was no transfer from Second Creek, therefore these numbers are negative.

Figure 2-1 displays the daily IBT amounts for water purchases from the Catawba and Yadkin River Basins.

Figure 2-1

2020 Daily Interbasin Transfers by Basin

2020 Daily IBT Per Basin (mgd)



3.0 - Other Related Information

In 2010, a settlement was reached in a lawsuit filed by the Catawba River Foundation, Inc. and the Protect the Catawba Coalition. While this does not affect the IBT Certificate, its conditions, or required reporting in any way, the Cities did agree to some operational conditions regarding the Catawba River Basin during times of drought.

During designated droughts beyond July 1, 2015, following either Low Inflow Protocol (LIP) or Drought Management Advisory Council (DMAC) Drought Stage declaration, the Cities have agreed to limit the Catawba River Basin IBT so that it corresponds to water use reduction goals. A summary of this agreement is presented in Table 3-1.

Table 3-1

Catawba River Basin IBT during Drought Conditions

LIP Stage or DMAC Drought Stage	Maximum Day Transfer (mgd)
0 / Abnormally Dry	10.0
1 / Moderate Drought	9.0
2 / Severe Drought	8.5
3 / Extreme Drought	7.0
4 / Exceptional Drought	6.0

4.0 - Compliance with Certificate Conditions

A summary of the conditions of the IBT Certificate approved on January 10, 2007 along with the current status of compliance for each is provided below. Language from the certificate is followed by actions for each condition.

4.1 - Condition 1 (Federal Energy Regulatory Commission [FERC] Licensure)

If at any time any legal requirement that (a) governs the operation of the hydroelectric facilities in the Catawba River Basin currently licensed as Federal Energy Regulatory Commission (FERC) Project No. P-2232 or in the Yadkin Pee-Dee River Basin currently licensed as FERC Project Nos. P-2206 and P-2197 and (b) governs or affects water use and/or quality, substantially differs from the actual or anticipated FERC license conditions or other legal requirement upon which the analysis underlying this Certificate is based, such as changes to minimum flow requirements or drought mitigation measures, the Commission may reopen and modify this Certificate.

This condition requires no action by the Certificate Holders.

4.2 - Condition 2 (Drought Management Plan)

Each Certificate Holder shall prepare a Drought Management Plan. The Cities shall implement measures corresponding to the most severe level of drought conditions in either the Catawba or Yadkin River Basins. The Cities shall not transfer any water to any other jurisdictions unless that jurisdiction agrees to be bound by this condition in full.

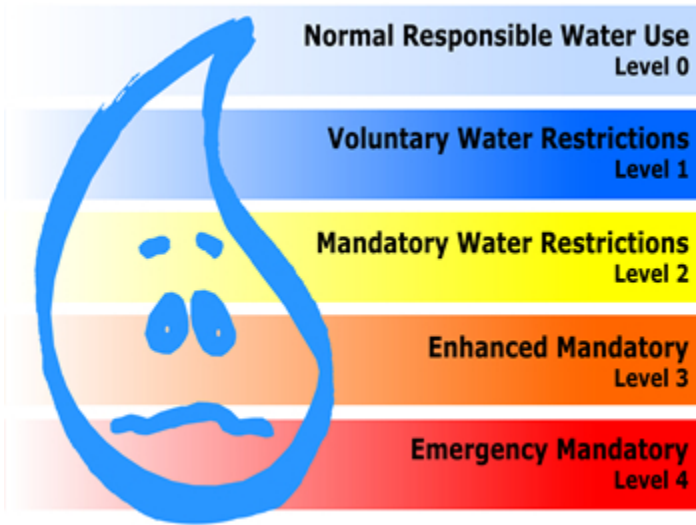
The Cities submitted the Drought Management Plan on July 31, 2007; comments were received on November 11, 2007, and the revised plan was submitted on January 8, 2008. The Drought Management Plan was incorporated into an updated Water Shortage Response Plan (WSRP) in 2010. The WSRP, prepared as a joint document for the Certificate Holders, is available on the NCDWR website at the following web address:

http://www.ncwater.org/Water_Supply_Planning/Water_Shortage_Response_Plans/plan

Table 4-1 shows Normal and Drought Stages 0-4, the names of each, the date the Catawba River Basin managers implemented Draft LIP actions in response to drought monitoring, the Yadkin-Pee Dee River Basin drought monitor, and the associated actions taken by the Cities.

Beginning in the winter of 2008, drought conditions in the state began to decrease, permitting an easing of drought restrictions for both the Catawba and Yadkin River Basins. Level 0, Normal Responsible Water Use, was in place from January 1 through December 31 of 2020 (Figure 4-1). Other outdoor water use conservation measures are encouraged but not required.

During the year, the Cities drought stages follow the drought stages of the Catawba-Wataree Water Management Group; hence the Cities stayed in Normal Responsible Water Use Level.



The Cities have agreements in place that include enforcement policies with other systems that purchase water from them.

Table 4-1

Concord and Kannapolis 2020 Normal and Drought Stages

Drought Stage	Drought Monitor Classification	2020 Period of Drought			
		Catawba River Basin ^a (NC Drought Monitor)	Yadkin River Basin ^b (NC Drought Monitor)	Action by Cities	Cities' Actions Taken
	Normal				
0	Abnormally Dry				
1	Moderate Drought				
2	Severe Drought				
3	Extreme Drought				
4	Exceptional Drought				

^a The Catawba River Basin is listed as the drought stage declared by the Catawba-Wateree Water Management Group.

^b The Yadkin River Basin is listed as the highest classification within the basin at a given date. Portions of the basin may be in a lower category.

4.3 - Condition 3 (Disaggregation of IBT Amount)

If the Certificate Holders discontinue their cooperative service agreement, then the permitted IBT amount will be allocated amongst the Certificate Holders based on their projected 2030 needs.

The cooperative service agreement between the Certificate Holders remained in effect throughout 2020.

The Cities and local municipalities cooperatively and effectively communicate and manage their respective water distribution systems. The Cities sell water to each other and reconcile billing monthly. Additionally, Concord owns and operates the water distribution system for Midland, providing water service to all Midland customers. Harrisburg purchases water from Concord, measured by six meters. Concord also provides water service to unincorporated areas of Cabarrus County. Mount Pleasant did not purchase water from the City of Concord in 2020. Further emphasizing the interconnected nature of the Cities and local municipalities, Kannapolis provides water to Landis, located in the South Yadkin River Basin, which is not subject to this IBT Certificate.

4.4 - Condition 4 (Compliance and Monitoring Plan)

In cooperation with the Division of Water Resources, the Certificate Holders shall develop an IBT Compliance and Monitoring Plan.

The Cities submitted the Compliance and Monitoring Plan on July 31, 2007. This plan was finalized in December 2007.

4.5 - Condition 5 (EMC Consideration of Impacts)

The EMC may reopen the Certificate and adjust existing or require new conditions to ensure detrimental impacts are mitigated if environmental impacts are found to be substantially different from those projected in the EMC's Findings of Fact.

This condition requires no action by the Certificate Holders. The EMC did not take action on this condition in 2020.

4.6 - Condition 6 (20-Year Certificate Evaluation)

In twenty years from the date of the Certificate, the Cities shall submit a written report to the EMC to include: (a) summary of transfers for the previous twenty years, (b) discussion of any changes to the environmental impacts assessment from IBT transfers, (c) summary of all actions to address actual or potential drought conditions, (d) recommendations for any changes to the Certificate, (e) details on consultation with interested stakeholders, and (f) certification of compliance with Certificate. This will continue at 20-year intervals.

The IBT Certificate was approved on January 10, 2007 and signed into effect on January 25, 2007; therefore, the first 20-year certificate evaluation report will be completed in 2027.

4.7 - Condition 7 (Limit of Certificate)

The Certificate does not exempt the Cities from compliance with any other requirements of law.

This condition requires no action by the Cities.

APPENDIX

Daily Interbasin Transfer Amounts for 2020

2020 Concord-Kannapolis IBT Tracking

Calculated Fields

Condition of IBT Certificate (January 25, 2007)

Maximum day transfer from the Catawba River Basin 10 MGD
 Maximum day transfer from the Yadkin Pee-Dee River Basin 10 MGD
 Maximum day transfer from the South Yadkin River Basin (grandfather) 6 MGD
 Maximum day transfer to the South Yadkin River Basin (cannot exceed transfer from South Yadkin by more than 1.99 MGD)

Map Code Source Basin	Water Transfer (MGD) to Rocky River Basin				Water Sales (MGD)				Interbasin Transfer							
	South Yadkin	Yadkin	Yadkin	Catawba	South Yadkin	South Yadkin	Yadkin	Catawba	Catawba	% of Permitted MDD Transfer	Yadkin	% of Permitted MDD Transfer	Grandfathered IBT from Second Creek - South Yadkin River Basin	% of Permitted MDD Transfer	IBT from Yadkin to South Yadkin River Basin	% of Permitted MDD Transfer
DATE	Raw Water to Kannapolis Lake from Second Creek	Salisbury Finished water Interconnection with Kannapolis	Albemarle Finished water Interconnection with Concord	Charlotte Water Finished water Interconnections with Concord	Kannapolis Finished water sales to Landis	Total South Yadkin IBT ¹	Total Yadkin IBT	Total Catawba IBT	0.000	0.000%	2.921	29.210%	-0.186	-3.100%	0.186	9.347%
1/1/2020	0.000	0.000	2.921	0.000	0.186	-0.186	2.921	0.000	0.000	0.000%	2.921	29.210%	-0.186	-3.100%	0.186	9.347%
1/2/2020	0.000	0.000	2.975	0.000	0.248	-0.248	2.975	0.000	0.000	0.000%	2.975	29.750%	-0.248	-4.133%	0.248	12.462%
1/3/2020	0.000	0.000	2.922	0.000	0.211	-0.211	2.922	0.000	0.000	0.000%	2.922	29.220%	-0.211	-3.517%	0.211	10.603%
1/4/2020	0.000	0.000	2.952	0.000	0.253	-0.253	2.952	0.000	0.000	0.000%	2.952	29.520%	-0.253	-4.217%	0.253	12.714%
1/5/2020	0.000	0.000	3.110	0.000	0.21	-0.210	3.110	0.000	0.000	0.000%	3.110	31.100%	-0.210	-3.500%	0.210	10.553%
1/6/2020	0.000	0.000	3.083	0.000	0.250	-0.250	3.083	0.000	0.000	0.000%	3.083	30.830%	-0.250	-4.167%	0.250	12.563%
1/7/2020	0.000	0.000	2.973	0.000	0.252	-0.252	2.973	0.000	0.000	0.000%	2.973	29.730%	-0.252	-4.200%	0.252	12.663%
1/8/2020	0.000	0.000	3.349	0.000	0.214	-0.214	3.349	0.000	0.000	0.000%	3.349	33.490%	-0.214	-3.567%	0.214	10.754%
1/9/2020	0.000	0.000	3.271	0.000	0.249	-0.249	3.271	0.000	0.000	0.000%	3.271	32.705%	-0.249	-4.150%	0.249	12.513%
1/10/2020	0.000	0.000	3.515	0.000	0.245	-0.245	3.515	0.000	0.000	0.000%	3.515	35.150%	-0.245	-4.083%	0.245	12.312%
1/11/2020	0.000	0.000	3.217	0.000	0.212	-0.212	3.217	0.000	0.000	0.000%	3.217	32.170%	-0.212	-3.533%	0.212	10.653%
1/12/2020	0.000	0.000	3.563	0.000	0.255	-0.255	3.563	0.000	0.000	0.000%	3.563	35.630%	-0.255	-4.250%	0.255	12.814%
1/13/2020	0.000	0.000	1.248	0.000	0.222	-0.222	1.248	0.000	0.000	0.000%	1.248	12.480%	-0.222	-3.700%	0.222	11.156%
1/14/2020	0.000	0.000	0.000	0.000	0.243	-0.243	0.000	0.000	0.000	0.000%	0.000	0.000%	-0.243	-4.050%	0.243	12.211%
1/15/2020	0.000	0.000	0.000	0.000	0.256	-0.256	0.000	0.000	0.000	0.000%	0.000	0.000%	-0.256	-4.267%	0.256	12.864%
1/16/2020	0.000	0.000	0.000	0.000	0.249	-0.249	0.000	0.000	0.000	0.000%	0.000	0.000%	-0.249	-4.150%	0.249	12.513%
1/17/2020	0.000	0.000	0.000	0.000	0.202	-0.202	0.000	0.000	0.000	0.000%	0.000	0.000%	-0.202	-3.367%	0.202	10.151%
1/18/2020	0.000	0.000	0.000	0.000	0.251	-0.251	0.000	0.000	0.000	0.000%	0.000	0.000%	-0.251	-4.183%	0.251	12.613%
1/19/2020	0.000	0.000	0.000	0.000	0.204	-0.204	0.000	0.000	0.000	0.000%	0.000	0.000%	-0.204	-3.400%	0.204	10.251%
1/20/2020	0.000	0.000	0.000	0.000	0.255	-0.255	0.000	0.000	0.000	0.000%	0.000	0.000%	-0.255	-4.250%	0.255	12.814%
1/21/2020	0.000	0.000	1.969	0.000	0.251	-0.251	1.969	0.000	0.000	0.000%	1.969	19.690%	-0.251	-4.183%	0.251	12.613%
1/22/2020	0.000	0.000	3.267	0.000	0.246	-0.246	3.267	0.000	0.000	0.000%	3.267	32.670%	-0.246	-4.100%	0.246	12.362%
1/23/2020	0.000	0.000	2.975	0.000	0.22	-0.220	2.975	0.000	0.000	0.000%	2.975	29.750%	-0.220	-3.667%	0.220	11.055%
1/24/2020	0.000	0.000	3.099	0.000	0.252	-0.252	3.099	0.000	0.000	0.000%	3.099	30.990%	-0.252	-4.200%	0.252	12.663%
1/25/2020	0.000	0.000	2.992	0.000	0.262	-0.262	2.992	0.000	0.000	0.000%	2.992	29.920%	-0.262	-4.367%	0.262	13.166%
1/26/2020	0.000	0.000	3.169	0.000	0.268	-0.268	3.169	0.000	0.000	0.000%	3.169	31.690%	-0.268	-4.467%	0.268	13.467%
1/27/2020	0.000	0.000	2.944	0.000	0.259	-0.259	2.944	0.000	0.000	0.000%	2.944	29.440%	-0.259	-4.317%	0.259	13.015%
1/28/2020	0.000	0.000	3.137	0.000	0.251	-0.251	3.137	0.000	0.000	0.000%	3.137	31.370%	-0.251	-4.183%	0.251	12.613%
1/29/2020	0.000	0.000	3.202	0.000	0.260	-0.260	3.202	0.000	0.000	0.000%	3.202	32.020%	-0.260	-4.333%	0.260	13.065%
1/30/2020	0.000	0.000	3.326	0.000	0.212	-0.212	3.326	0.000	0.000	0.000%	3.326	33.260%	-0.212	-3.533%	0.212	10.653%
1/31/2020	0.000	0.000	3.262	0.000	0.251	-0.251	3.262	0.000	0.000	0.000%	3.262	32.620%	-0.251	-4.183%	0.251	12.613%
2/1/2020	0.000	0.000	3.083	0.000	0.256	-0.256	3.083	0.000	0.000	0.000%	3.083	30.830%	-0.256	-4.267%	0.256	12.864%
2/2/2020	0.000	0.000	3.236	0.000	0.269	-0.269	3.236	0.000	0.000	0.000%	3.236	32.360%	-0.269	-4.483%	0.269	13.518%
2/3/2020	0.000	0.000	3.377	0.000	0.247	-0.247	3.377	0.000	0.000	0.000%	3.377	33.770%	-0.247	-4.117%	0.247	12.412%
2/4/2020	0.000	0.000	3.307	0.000	0.216	-0.216	3.307	0.000	0.000	0.000%	3.307	33.070%	-0.216	-3.600%	0.216	10.854%
2/5/2020	0.000	0.000	3.274	0.000	0.204	-0.204	3.274	0.000	0.000	0.000%	3.274	32.740%	-0.204	-3.400%	0.204	10.251%
2/6/2020	0.000	0.000	3.122	0.000	0.246	-0.246	3.122	0.000	0.000	0.000%	3.122	31.220%	-0.246	-4.100%	0.246	12.362%
2/7/2020	0.000	0.000	3.207	0.000	0.248	-0.248	3.207	0.000	0.000	0.000%	3.207	32.070%	-0.248	-4.133%	0.248	12.462%
2/8/2020	0.000	0.000	3.307	0.000	0.25	-0.250	3.307	0.000	0.000	0.000%	3.307	33.070%	-0.250	-4.167%	0.250	12.563%
2/9/2020	0.000	0.000	3.245	0.000	0.254	-0.254	3.245	0.000	0.000	0.000%	3.245	32.450%	-0.254	-4.233%	0.254	12.764%
2/10/2020	0.000	0.000	3.301	0.000	0.242	-0.242	3.301	0.000	0.000	0.000%	3.301	33.010%	-0.242	-4.033%	0.242	12.161%
2/11/2020	0.000	0.000	3.235	0.000	0.204	-0.204	3.235	0.000	0.000	0.000%	3.235	32.350%	-0.204	-3.400%	0.204	10.251%
2/12/2020	0.000	0.000	3.241	0.000	0.258	-0.258	3.241	0.000	0.000	0.000%	3.241	32.410%	-0.258	-4.300%	0.258	12.965%
2/13/2020	0.000	0.000	3.124	0.000	0.243	-0.243	3.124	0.000	0.000	0.000%	3.124	31.240%	-0.243	-4.050%	0.243	12.211%
2/14/2020	0.000	0.000	3.051	0.000	0.203	-0.203	3.051	0.000	0.000	0.000%	3.051	30.510%	-0.203	-3.383%	0.203	10.201%
2/15/2020	0.000	0.000	3.005	0.000	0.250	-0.250	3.005	0.000	0.000	0.000%	3.005	30.050%	-0.250	-4.167%	0.250	12.563%
2/16/2020	0.000	0.000	3.105	0.000	0.207	-0.207	3.105	0.000	0.000	0.000%	3.105	31.050%	-0.207	-3.450%	0.207	10.402%
2/17/2020	0.000	0.000	3.063	0.000	0.257	-0.257	3.063	0.000	0.000	0.000%	3.063	30.630%	-0.257	-4.283%	0.257	12.915%
2/18/2020	0.000	0.000	3.155	0.000	0.229	-0.229	3.155	0.000	0.000	0.000%	3.155	31.550%	-0.229	-3.817%	0.229	11.508%
2/19/2020	0.000	0.000	3.055	0.000	0.228	-0.228	3.055	0.000	0.000	0.000%	3.055	30.550%	-0.228	-3.800%	0.228	11.457%
2/20/2020	0.000	0.000	3.057	0.000	0.266	-0.266	3.057	0.000	0.000	0.000%	3.057	30.570%	-0.266	-4.433%	0.266	13.367%
2/21/2020	0.000	0.000	3.111	0.000	0.203	-0.203	3.111	0.000	0.000	0.000%	3.111	31.110%	-0.203	-3.383%	0.203	10.201%
2/22/2020	0.000	0.000	3.031	0.000	0.255	-0.255	3.031	0.000	0.000	0.000%	3.031	30.310%	-0.255	-4.250%	0.255	12.814%
2/23/2020	0.000	0.000	3.001	0.000	0.206	-0.206	3.001	0.000	0.000	0.000%	3.001	30.010%	-0.206	-3.433%	0.206	10.352%
2/24/2020	0.000	0.000	3.254	0.000	0.225	-0.225	3.254	0.000	0.000	0.000%	3.254	32.540%	-0.225	-3.750%	0.225	11.307%
2/25/2020	0.000	0.000	3.094	0.000	0.255	-0.255	3.094	0.000	0.000	0.000%	3.094	30.940%	-0.255	-4.250%	0.255	12.814%
2/26/2020	0.000	0.000	3.110	0.000	0.254	-0.254	3.110	0.000	0.000	0.000%	3.110	31.100%	-0.254	-4.233%	0.254	12.764%
2/27/2020	0.000	0.000	3.247	0.000	0.253	-0.253	3.247	0.000	0.000	0.000%	3.247	32.470%	-0.253	-4.217%	0.253	12.714%
2/28/2020	0.000	0.00														

Map Code Source Basin	Water Transfer (MGD) to Rocky River Basin			
	Salisbury 1	Albemarle 1	Charlotte 1-3	
	South Yadkin	Yadkin	Yadkin	Catawba
DATE	Raw Water to Kannapolis Lake from Second Creek	Salisbury Finished water Interconnection with Kannapolis	Albemarle Finished water Interconnection with Concord	Charlotte Water Finished water Interconnections with Concord
3/3/2020	0.000	0.000	3.123	
3/4/2020	0.000	0.000	3.199	
3/5/2020	0.000	0.000	3.144	
3/6/2020	0.000	0.000	3.173	
3/7/2020	0.000	0.000	2.966	
3/8/2020	0.000	0.000	3.121	
3/9/2020	0.000	0.000	3.157	
3/10/2020	0.000	0.000	3.093	
3/11/2020	0.000	0.000	3.176	
3/12/2020	0.000	0.000	3.138	
3/13/2020	0.000	0.000	3.250	
3/14/2020	0.000	0.000	3.089	
3/15/2020	0.000	0.000	3.175	
3/16/2020	0.000	0.000	3.162	
3/17/2020	0.000	0.000	3.304	
3/18/2020	0.000	0.000	3.261	
3/19/2020	0.000	0.000	3.057	
3/20/2020	0.000	0.000	3.343	
3/21/2020	0.000	0.126	3.252	
3/22/2020	0.000	0.302	3.083	
3/23/2020	0.000	0.000	3.038	
3/24/2020	0.000	0.000	3.104	
3/25/2020	0.000	0.000	2.972	
3/26/2020	0.000	0.000	3.145	
3/27/2020	0.000	0.000	3.109	
3/28/2020	0.000	0.000	3.380	
3/29/2020	0.000	0.000	3.445	
3/30/2020	0.000	0.000	3.197	
3/31/2020	0.000	0.000	3.051	
4/1/2020	0.000	0.000	3.100	
4/2/2020	0.000	0.000	3.157	
4/3/2020	0.000	0.000	3.199	
4/4/2020	0.000	0.000	3.067	
4/5/2020	0.000	0.000	3.356	
4/6/2020	0.000	0.000	3.351	
4/7/2020	0.000	0.000	3.220	
4/8/2020	0.000	0.000	3.235	
4/9/2020	0.000	0.000	3.179	
4/10/2020	0.000	0.000	3.136	
4/11/2020	0.000	0.000	3.133	
4/12/2020	0.000	0.000	3.060	
4/13/2020	0.000	0.000	3.151	
4/14/2020	0.000	0.000	3.237	
4/15/2020	0.000	0.000	3.131	
4/16/2020	0.000	0.000	3.284	
4/17/2020	0.000	0.000	3.248	
4/18/2020	0.000	0.000	3.282	
4/19/2020	0.000	0.000	3.124	
4/20/2020	0.000	0.000	3.023	
4/21/2020	0.000	0.000	2.986	
4/22/2020	0.000	0.000	3.344	
4/23/2020	0.000	0.000	3.124	
4/24/2020	0.000	0.000	3.250	
4/25/2020	0.000	0.000	3.190	
4/26/2020	0.000	0.000	3.096	
4/27/2020	0.000	0.000	3.160	
4/28/2020	0.000	0.000	3.427	
4/29/2020	0.000	0.000	3.439	
4/30/2020	0.000	0.000	3.401	
5/1/2020	0.000	0.253	3.359	
5/2/2020	0.000	0.269	3.545	
5/3/2020	0.000	0.283	3.596	
5/4/2020	0.000	0.282	3.554	
5/5/2020	0.000	0.259	3.443	
5/6/2020	0.000	0.276	3.347	
5/7/2020	0.000	0.238	3.354	
5/8/2020	0.000	0.232	3.428	
5/9/2020	0.000	0.256	3.352	
5/10/2020	0.000	0.271	3.426	
5/11/2020	0.000	0.262	3.432	

Water Sales (MGD)	IBT Totals Per Basin		
	South Yadkin	Yadkin	Catawba
	Kannapolis water sales to Landis	Total South Yadkin IBT ¹	Total Catawba IBT
0.213	-0.213	3.123	0.000
0.255	-0.255	3.199	0.000
0.234	-0.234	3.144	0.000
0.218	-0.218	3.173	0.000
0.235	-0.235	2.966	0.000
0.227	-0.227	3.121	0.000
0.257	-0.257	3.157	0.000
0.257	-0.257	3.093	0.000
0.217	-0.217	3.176	0.000
0.248	-0.248	3.138	0.000
0.246	-0.246	3.250	0.000
0.201	-0.201	3.089	0.000
0.248	-0.248	3.175	0.000
0.208	-0.208	3.162	0.000
0.302	-0.302	3.304	0.000
0.220	-0.220	3.261	0.000
0.057	-0.057	3.057	0.000
0.251	-0.251	3.343	0.000
0.260	-0.260	3.378	0.000
0.213	-0.213	3.385	0.000
0.237	-0.237	3.038	0.000
0.201	-0.201	3.104	0.000
0.242	-0.242	2.972	0.000
0.232	-0.232	3.145	0.000
0.252	-0.252	3.109	0.000
0.211	-0.211	3.380	0.000
0.260	-0.260	3.445	0.000
0.255	-0.255	3.197	0.000
0.286	-0.286	3.051	0.000
0.303	-0.303	3.100	0.000
0.272	-0.272	3.157	0.000
0.293	-0.293	3.199	0.000
0.067	-0.067	3.067	0.000
0.266	-0.266	3.356	0.000
0.301	-0.301	3.351	0.000
0.257	-0.257	3.220	0.000
0.303	-0.303	3.235	0.000
0.293	-0.293	3.179	0.000
0.263	-0.263	3.136	0.000
0.239	-0.239	3.133	0.000
0.279	-0.279	3.060	0.000
0.23	-0.230	3.151	0.000
0.233	-0.233	3.237	0.000
0.286	-0.286	3.131	0.000
0.241	-0.241	3.284	0.000
0.261	-0.261	3.248	0.000
0.242	-0.242	3.282	0.000
0.280	-0.280	3.124	0.000
0.228	-0.228	3.023	0.000
0.237	-0.237	2.986	0.000
0.295	-0.295	3.344	0.000
0.227	-0.227	3.124	0.000
0.27	-0.270	3.250	0.000
0.244	-0.244	3.190	0.000
0.283	-0.283	3.096	0.000
0.268	-0.268	3.160	0.000
0.242	-0.242	3.427	0.000
0.287	-0.287	3.439	0.000
0.231	-0.231	3.401	0.000
0.253	-0.253	3.359	0.000
0.269	-0.269	3.545	0.000
0.283	-0.283	3.596	0.000
0.282	-0.282	3.554	0.000
0.259	-0.259	3.443	0.000
0.276	-0.276	3.347	0.000
0.238	-0.238	3.354	0.000
0.232	-0.232	3.428	0.000
0.256	-0.256	3.352	0.000
0.271	-0.271	3.426	0.000
0.262	-0.262	3.432	0.000

Interbasin Transfer						
Catawba	% of Permitted MDD Transfer	Yadkin	% of Permitted MDD Transfer	Grandfathered IBT from Second Creek - South Yadkin River Basin	% of Permitted MDD Transfer	IBT from Yadkin to South Yadkin River Basin
0.000	0.000%	3.123	31.230%	-0.213	-3.550%	0.213
0.000	0.000%	3.199	31.990%	-0.255	-4.250%	0.255
0.000	0.000%	3.144	31.440%	-0.234	-3.900%	0.234
0.000	0.000%	3.173	31.730%	-0.218	-3.633%	0.218
0.000	0.000%	2.966	29.660%	-0.235	-3.917%	0.235
0.000	0.000%	3.121	31.210%	-0.227	-3.783%	0.227
0.000	0.000%	3.157	31.570%	-0.257	-4.283%	0.257
0.000	0.000%	3.093	30.930%	-0.257	-4.283%	0.257
0.000	0.000%	3.176	31.760%	-0.217	-3.617%	0.217
0.000	0.000%	3.138	31.380%	-0.248	-4.133%	0.248
0.000	0.000%	3.250	32.500%	-0.246	-4.100%	0.246
0.000	0.000%	3.089	30.890%	-0.201	-3.350%	0.201
0.000	0.000%	3.175	31.750%	-0.248	-4.133%	0.248
0.000	0.000%	3.162	31.620%	-0.208	-3.467%	0.208
0.000	0.000%	3.304	33.040%	-0.302	-5.033%	0.302
0.000	0.000%	3.261	32.610%	-0.220	-3.667%	0.220
0.000	0.000%	3.057	30.570%	-0.057	-3.400%	0.204
0.000	0.000%	3.343	33.430%	-0.251	-4.183%	0.251
0.000	0.000%	3.378	33.780%	-0.260	-4.333%	0.260
0.000	0.000%	3.385	33.850%	-0.213	-3.550%	0.213
0.000	0.000%	3.038	30.380%	-0.237	-3.950%	0.237
0.000	0.000%	3.104	31.040%	-0.201	-3.350%	0.201
0.000	0.000%	2.972	29.720%	-0.242	-4.033%	0.242
0.000	0.000%	3.145	31.450%	-0.232	-3.867%	0.232
0.000	0.000%	3.109	31.090%	-0.252	-4.200%	0.252
0.000	0.000%	3.380	33.800%	-0.211	-3.517%	0.211
0.000	0.000%	3.445	34.450%	-0.260	-4.333%	0.260
0.000	0.000%	3.197	31.970%	-0.255	-4.250%	0.255
0.000	0.000%	3.051	30.510%	-0.286	-4.767%	0.286
0.000	0.000%	3.100	31.000%	-0.303	-5.050%	0.303
0.000	0.000%	3.157	31.570%	-0.272	-4.533%	0.272
0.000	0.000%	3.199	31.990%	-0.293	-4.883%	0.293
0.000	0.000%	3.067	30.670%	-0.303	-5.050%	0.303
0.000	0.000%	3.356	33.560%	-0.266	-4.433%	0.266
0.000	0.000%	3.351	33.510%	-0.301	-5.017%	0.301
0.000	0.000%	3.220	32.200%	-0.257	-4.283%	0.257
0.000	0.000%	3.235	32.350%	-0.303	-5.050%	0.303
0.000	0.000%	3.179	31.790%	-0.293	-4.883%	0.293
0.000	0.000%	3.136	31.360%	-0.263	-4.383%	0.263
0.000	0.000%	3.133	31.330%	-0.239	-3.983%	0.239
0.000	0.000%	3.060	30.600%	-0.279	-4.650%	0.279
0.000	0.000%	3.151	31.510%	-0.230	-3.833%	0.230
0.000	0.000%	3.237	32.370%	-0.233	-3.883%	0.233
0.000	0.000%	3.131	31.310%	-0.286	-4.767%	0.286
0.000	0.000%	3.284	32.840%	-0.241	-4.017%	0.241
0.000	0.000%	3.248	32.480%	-0.261	-4.350%	0.261
0.000	0.000%	3.282	32.820%	-0.242	-4.033%	0.242
0.000	0.000%	3.124	31.240%	-0.280	-4.667%	0.280
0.000	0.000%	3.023	30.230%	-0.228	-3.800%	0.228
0.000	0.000%	2.986	29.860%	-0.237	-3.950%	0.237
0.000	0.000%	3.344	33.440%	-0.295	-4.917%	0.295
0.000	0.000%	3.124	31.240%	-0.227	-3.783%	0.227
0.000	0.000%	3.250	32.500%	-0.270	-4.500%	0.270
0.000	0.000%	3.190	31.900%	-0.244	-4.067%	0.244
0.000	0.000%	3.096	30.960%	-0.283	-4.717%	0.283
0.000	0.000%	3.160	31.600%	-0.268	-4.467%	0.268
0.000	0.000%	3.427	34.270%	-0.242	-4.033%	0.242
0.000	0.000%	3.439	34.390%	-0.287	-4.783%	0.287
0.000	0.000%	3.401	34.010%	-0.231	-3.850%	0.231
0.000	0.000%	3.359	33.590%	-0.253	-4.217%	0.253
0.000	0.000%	3.545	35.450%	-0.269	-4.483%	0.269
0.000	0.000%	3.596	35.960%	-0.283	-4.717%	0.283
0.000	0.000%	3.554	35.540%	-0.282	-4.700%	0.282
0.000	0.000%	3.443	34.430%	-0.259	-4.317%	0.259
0.000	0.000%	3.347	33.470%	-0.276	-	

Map Code Source Basin	Water Transfer (MGD) to Rocky River Basin			
	Salisbury 1	Albemarle 1	Charlotte 1-3	
	South Yadkin	Yadkin	Yadkin	Catawba
DATE	Raw Water to Kannapolis Lake from Second Creek	Salisbury Finished water Interconnection with Kannapolis	Albemarle Finished water Interconnection with Concord	Charlotte Water Finished water Interconnections with Concord
5/12/2020	0.000	0.000	3.327	
5/13/2020	0.000	0.000	3.170	
5/14/2020	0.000	0.000	3.382	
5/15/2020	0.000	0.000	3.448	
5/16/2020	0.000	0.000	3.408	
5/17/2020	0.000	0.000	3.271	
5/18/2020	0.000	0.000	3.146	
5/19/2020	0.000	0.000	3.362	
5/20/2020	0.000	0.000	3.006	
5/21/2020	0.000	0.000	3.146	
5/22/2020	0.000	0.000	3.231	
5/23/2020	0.000	0.000	3.203	
5/24/2020	0.000	0.000	3.178	
5/25/2020	0.000	0.000	3.190	
5/26/2020	0.000	0.000	3.272	
5/27/2020	0.000	0.000	3.292	
5/28/2020	0.000	0.000	3.074	
5/29/2020	0.000	0.000	3.339	
5/30/2020	0.000	0.000	3.195	
5/31/2020	0.000	0.000	3.192	
6/1/2020	0.000	0.000	3.261	
6/2/2020	0.000	0.000	3.321	
6/3/2020	0.000	0.000	3.297	
6/4/2020	0.000	0.000	3.368	
6/5/2020	0.000	0.000	3.277	
6/6/2020	0.000	0.000	3.401	
6/7/2020	0.000	0.000	3.449	
6/8/2020	0.000	0.000	3.451	
6/9/2020	0.000	0.000	3.508	
6/10/2020	0.000	0.000	3.398	
6/11/2020	0.000	0.000	3.417	
6/12/2020	0.000	0.000	3.442	
6/13/2020	0.000	0.000	3.279	
6/14/2020	0.000	0.000	3.216	
6/15/2020	0.000	0.000	3.174	
6/16/2020	0.000	0.000	2.983	0.405
6/17/2020	0.000	0.000	3.361	1.832
6/18/2020	0.000	0.000	3.096	
6/19/2020	0.000	0.000	3.044	
6/20/2020	0.000	0.000	3.268	
6/21/2020	0.000	0.000	3.230	
6/22/2020	0.000	0.000	3.097	
6/23/2020	0.000	0.000	3.417	
6/24/2020	0.000	0.000	3.486	
6/25/2020	0.000	0.000	3.242	
6/26/2020	0.000	0.000	3.411	
6/27/2020	0.000	0.000	3.354	
6/28/2020	0.000	0.000	3.268	
6/29/2020	0.000	0.000	3.149	
6/30/2020	0.000	0.000	3.221	
7/1/2020	0.000	0.000	3.090	
7/2/2020	0.000	0.000	3.359	
7/3/2020	0.000	0.000	3.363	
7/4/2020	0.000	0.000	3.331	
7/5/2020	0.000	0.000	3.341	
7/6/2020	0.000	0.000	3.294	
7/7/2020	0.000	0.000	3.393	
7/8/2020	0.000	0.000	3.257	
7/9/2020	0.000	0.000	3.491	
7/10/2020	0.000	0.000	3.534	
7/11/2020	0.000	0.000	3.318	
7/12/2020	0.000	0.000	3.423	
7/13/2020	0.000	0.000	3.340	
7/14/2020	0.000	0.000	3.691	
7/15/2020	0.000	0.000	3.536	
7/16/2020	0.000	0.000	3.437	
7/17/2020	0.000	0.000	3.271	
7/18/2020	0.000	0.000	3.203	
7/19/2020	0.000	0.000	3.162	
7/20/2020	0.000	0.000	3.114	

Water Sales (MGD)	IBT Totals Per Basin		
	South Yadkin	Yadkin	Catawba
Kannapolis Finished water sales to Landis	Total South Yadkin IBT ¹	Total Yadkin IBT	Total Catawba IBT
0.279	-0.279	3.327	0.000
0.231	-0.231	3.170	0.000
0.335	-0.335	3.382	0.000
0.294	-0.294	3.448	0.000
0.301	-0.301	3.408	0.000
0.278	-0.278	3.271	0.000
0.305	-0.305	3.146	0.000
0.363	-0.363	3.362	0.000
0.247	-0.247	3.006	0.000
0.274	-0.274	3.146	0.000
0.264	-0.264	3.231	0.000
0.243	-0.243	3.203	0.000
0.273	-0.273	3.178	0.000
0.204	-0.204	3.190	0.000
0.269	-0.269	3.272	0.000
0.231	-0.231	3.202	0.000
0.328	-0.328	3.074	0.000
0.299	-0.299	3.339	0.000
0.331	-0.331	3.195	0.000
0.275	-0.275	3.192	0.000
0.345	-0.345	3.261	0.000
0.319	-0.319	3.321	0.000
0.298	-0.298	3.297	0.000
0.304	-0.304	3.368	0.000
0.270	-0.270	3.277	0.000
0.329	-0.329	3.401	0.000
0.259	-0.259	3.449	0.000
0.280	-0.280	3.451	0.000
0.310	-0.310	3.508	0.000
0.295	-0.295	3.398	0.000
0.283	-0.283	3.417	0.000
0.311	-0.311	3.442	0.000
0.286	-0.286	3.279	0.000
0.307	-0.307	3.216	0.000
0.320	-0.320	3.174	0.000
0.293	-0.293	2.983	0.405
0.330	-0.330	3.361	1.832
0.266	-0.266	3.096	0.000
0.313	-0.313	3.044	0.000
0.262	-0.262	3.268	0.000
0.304	-0.304	3.230	0.000
0.314	-0.314	3.097	0.000
0.320	-0.320	3.417	0.000
0.362	-0.362	3.486	0.000
0.346	-0.346	3.242	0.000
0.334	-0.334	3.411	0.000
0.354	-0.354	3.354	0.000
0.312	-0.312	3.268	0.000
0.327	-0.327	3.149	0.000
0.331	-0.331	3.221	0.000
0.344	-0.344	3.090	0.000
0.317	-0.317	3.359	0.000
0.335	-0.335	3.363	0.000
0.294	-0.294	3.331	0.000
0.318	-0.318	3.341	0.000
0.297	-0.297	3.294	0.000
0.320	-0.320	3.393	0.000
0.289	-0.289	3.300	0.000
0.337	-0.337	3.491	0.000
0.300	-0.300	3.534	0.000
0.329	-0.329	3.318	0.000
0.272	-0.272	3.423	0.000
0.342	-0.342	3.340	0.000
0.312	-0.312	3.691	0.000
0.309	-0.309	3.536	0.000
0.340	-0.340	3.437	0.000
0.324	-0.324	3.271	0.000
0.270	-0.270	3.203	0.000
0.361	-0.361	3.162	0.000
0.313	-0.313	3.114	0.000

Interbasin Transfer							
Catawba	% of Permitted MDD Transfer	Yadkin	% of Permitted MDD Transfer	Grandfathered IBT from Second Creek - South Yadkin River Basin	% of Permitted MDD Transfer	IBT from Yadkin to South Yadkin River Basin	
							% of Permitted MDD Transfer
0.000	0.000%	3.327	33.270%	-0.279	-4.650%	0.279	14.020%
0.000	0.000%	3.170	31.700%	-0.231	-3.850%	0.231	11.608%
0.000	0.000%	3.382	33.820%	-0.335	-5.583%	0.335	16.834%
0.000	0.000%	3.448	34.480%	-0.294	-4.900%	0.294	14.774%
0.000	0.000%	3.408	34.080%	-0.301	-5.017%	0.301	15.126%
0.000	0.000%	3.271	32.710%	-0.278	-4.633%	0.278	13.970%
0.000	0.000%	3.146	31.460%	-0.305	-5.083%	0.305	15.327%
0.000	0.000%	3.362	33.620%	-0.363	-6.050%	0.363	18.241%
0.000	0.000%	3.006	30.060%	-0.247	-4.117%	0.247	12.412%
0.000	0.000%	3.146	31.460%	-0.274	-4.567%	0.274	13.769%
0.000	0.000%	3.231	32.310%	-0.264	-4.400%	0.264	13.266%
0.000	0.000%	3.203	32.030%	-0.243	-4.050%	0.243	12.211%
0.000	0.000%	3.178	31.780%	-0.273	-4.550%	0.273	13.719%
0.000	0.000%	3.190	31.900%	-0.204	-3.400%	0.204	10.251%
0.000	0.000%	3.272	32.720%	-0.269	-4.483%	0.269	13.518%
0.000	0.000%	3.202	32.020%	-0.231	-3.850%	0.231	11.608%
0.000	0.000%	3.074	30.740%	-0.328	-5.467%	0.328	16.482%
0.000	0.000%	3.339	33.390%	-0.299	-4.983%	0.299	15.025%
0.000	0.000%	3.195	31.950%	-0.331	-5.517%	0.331	16.633%
0.000	0.000%	3.192	31.920%	-0.275	-4.583%	0.191	9.598%
0.000	0.000%	3.261	32.610%	-0.345	-5.750%	0.178	8.945%
0.000	0.000%	3.321	33.210%	-0.319	-5.317%	0.162	8.141%
0.000	0.000%	3.297	32.970%	-0.233	-3.883%	0.233	11.709%
0.000	0.000%	3.368	33.680%	-0.304	-5.067%	0.208	10.452%
0.000	0.000%	3.277	32.770%	-0.270	-4.500%	0.215	10.804%
0.000	0.000%	3.401	34.010%	-0.329	-5.483%	0.229	11.508%
0.000	0.000%	3.449	34.490%	-0.259	-4.317%	0.251	12.613%
0.000	0.000%	3.451	34.510%	-0.280	-4.667%	0.277	13.920%
0.000	0.000%	3.508	35.080%	-0.310	-5.167%	0.294	14.774%
0.000	0.000%	3.398	33.980%	-0.295	-4.917%	0.181	9.095%
0.000	0.000%	3.417	34.170%	-0.283	-4.717%	0.189	9.497%
0.000	0.000%	3.442	34.420%	-0.311	-5.183%	0.218	10.955%
0.000	0.000%	3.279	32.790%	-0.286	-4.767%	0.248	12.462%
0.000	0.000%	3.216	32.160%	-0.307	-5.117%	0.157	7.869%
0.000	0.000%	3.174	31.740%	-0.320	-5.333%	0.180	9.045%
0.405	4.055%	2.983	29.830%	-0.293	-4.883%	0.274	13.769%
1.832	18.320%	3.361	33.610%	-0.330	-5.500%	0.288	14.472%
0.000	0.000%	3.096	30.960%	-0.266	-4.433%	0.138	6.935%
0.000	0.000%	3.044	30.440%	-0.313	-5.217%	0.206	10.352%
0.000	0.000%	3.268	32.680%	-0.262	-4.367%	0.325	16.332%
0.000	0.000%	3.230	32.300%	-0.304	-5.067%	0.324	16.281%
0.000	0.000%	3.097	30.970%	-0.314	-5.233%	0.225	11.307%
0.000	0.000%	3.417	34.170%	-0.320	-5.333%	0.173	8.693%
0.000	0.000%	3.486	34.860%	-0.362	-6.033%	0.257	12.915%
0.000	0.000%	3.242	32.420%	-0.346	-5.767%	0.251	12.613%
0.000	0.000%	3.411	34.110%	-0.334	-5.567%	0.193	9.698%
0.000	0.000%	3.354	33.540%	-0.328	-5.467%	0.251	12.613%
0.000	0.000%	3.268	32.680%	-0.312	-5.200%	0.239	12.010%
0.000	0.000%	3.149	31.490%	-0.327	-5.450%	0.295	14.824%
0.000	0.000%	3.221	32.210%	-0.331	-5.517%	0.291	14.623%
0.000	0.000%	3.090	30.900%	-0.344	-5.733%	0.291	14.623%
0.000	0.000%	3.359	33.590%	-0.317	-5.283%	0.442	22.211%
0.000	0.000%	3.363	33.630%	-0.335	-5.583%	0.356	17.889%
0.000	0.000%	3.331	33.310%	-0.294	-4.900%	0.194	9.749%
0.000	0.000%	3.341	33.410%	-0.318	-5.300%	0.245	12.312%
0.000	0.000%	3.294	32.940%	-0.297	-4.950%	0.191	9.598%
0.000	0.000%	3.					

Map Code Source Basin	Water Transfer (MGD) to Rocky River Basin			
	Salisbury 1	Albemarle 1	Charlotte 1-3	
	South Yadkin	Yadkin	Yadkin	Catawba
DATE	Raw Water to Kannapolis Lake from Second Creek	Salisbury Finished water Interconnection with Kannapolis	Albemarle Finished water Interconnection with Concord	Charlotte Water Finished water Interconnections with Concord
7/21/2020	0.000	0.000	3.387	
7/22/2020	0.000	0.000	3.380	
7/23/2020	0.000	0.000	3.252	
7/24/2020	0.000	0.000	3.663	
7/25/2020	0.000	0.000	3.884	
7/26/2020	0.000	0.000	4.065	
7/27/2020	0.000	0.000	4.193	
7/28/2020	0.000	0.000	4.350	
7/29/2020	0.000	0.000	3.665	
7/30/2020	0.000	0.000	4.005	
7/31/2020	0.000	0.000	4.170	
8/1/2020	0.000	0.000	4.215	
8/2/2020	0.000	0.000	4.239	
8/3/2020	0.000	0.000	4.217	
8/4/2020	0.000	0.000	3.964	
8/5/2020	0.000	0.000	4.207	
8/6/2020	0.000	0.000	4.166	
8/7/2020	0.000	0.000	4.077	
8/8/2020	0.000	0.000	4.188	
8/9/2020	0.000	0.000	4.236	
8/10/2020	0.000	0.000	4.248	
8/11/2020	0.000	0.000	4.093	
8/12/2020	0.000	0.000	4.014	
8/13/2020	0.000	0.000	3.920	
8/14/2020	0.000	0.000	3.971	
8/15/2020	0.000	0.000	4.001	
8/16/2020	0.000	0.000	3.951	
8/17/2020	0.000	0.000	3.972	
8/18/2020	0.000	0.000	4.023	
8/19/2020	0.000	0.000	3.980	
8/20/2020	0.000	0.000	4.014	
8/21/2020	0.000	0.000	3.975	
8/22/2020	0.000	0.000	3.838	
8/23/2020	0.000	0.000	3.893	
8/24/2020	0.000	0.000	3.982	
8/25/2020	0.000	0.000	4.071	
8/26/2020	0.000	0.000	4.288	
8/27/2020	0.000	0.000	4.284	
8/28/2020	0.000	0.000	4.102	
8/29/2020	0.000	0.000	3.944	
8/30/2020	0.000	0.000	3.946	
8/31/2020	0.000	0.000	3.899	
9/1/2020	0.000	0.000	3.960	
9/2/2020	0.000	0.000	2.727	
9/3/2020	0.000	0.000	4.002	
9/4/2020	0.000	0.000	4.203	
9/5/2020	0.000	0.000	3.882	
9/6/2020	0.000	0.000	3.882	
9/7/2020	0.000	0.000	3.911	
9/8/2020	0.000	0.000	3.961	
9/9/2020	0.000	0.000	4.012	
9/10/2020	0.000	0.000	3.993	
9/11/2020	0.000	0.000	3.968	
9/12/2020	0.000	0.000	3.953	
9/13/2020	0.000	0.000	4.033	
9/14/2020	0.000	0.000	3.908	
9/15/2020	0.000	0.000	4.048	
9/16/2020	0.000	0.000	3.833	
9/17/2020	0.000	0.000	3.649	
9/18/2020	0.000	0.000	3.857	
9/19/2020	0.000	0.000	4.068	
9/20/2020	0.000	0.000	3.790	
9/21/2020	0.000	0.000	3.910	
9/22/2020	0.000	0.000	3.929	
9/23/2020	0.000	0.000	3.912	
9/24/2020	0.000	0.000	3.757	
9/25/2020	0.000	0.000	3.875	
9/26/2020	0.000	0.000	3.551	
9/27/2020	0.000	0.000	3.805	
9/28/2020	0.000	0.000	3.843	

Water Sales (MGD)	IBT Totals Per Basin		
	South Yadkin	Yadkin	Catawba
Kannapolis Finished water sales to Landis	Total South Yadkin IBT ¹	Total Yadkin IBT	Total Catawba IBT
0.321	-0.321	3.387	0.000
0.334	-0.334	3.380	0.000
0.350	-0.350	3.252	0.000
0.312	-0.312	3.663	0.000
0.384	-0.384	3.884	0.000
0.316	-0.316	4.065	0.000
0.371	-0.371	4.193	0.000
0.348	-0.348	4.350	0.000
0.314	-0.314	3.665	0.000
0.315	-0.315	4.005	0.000
0.342	-0.342	4.170	0.000
0.322	-0.322	4.215	0.000
0.348	-0.348	4.239	0.000
0.305	-0.305	4.217	0.000
0.375	-0.375	3.964	0.000
0.312	-0.312	4.207	0.000
0.392	-0.392	4.166	0.000
0.415	-0.415	4.077	0.000
0.342	-0.342	4.188	0.000
0.334	-0.334	4.236	0.000
0.368	-0.368	4.248	0.000
0.411	-0.411	4.093	0.000
0.386	-0.386	4.014	0.000
0.355	-0.355	3.920	0.000
0.381	-0.381	3.971	0.000
0.326	-0.326	4.001	0.000
0.267	-0.267	3.951	0.000
0.355	-0.355	3.972	0.000
0.325	-0.325	4.023	0.000
0.329	-0.329	3.980	0.000
0.281	-0.281	4.014	0.000
0.329	-0.329	3.975	0.000
0.338	-0.338	3.838	0.000
0.294	-0.294	3.893	0.000
0.274	-0.274	3.982	0.000
0.322	-0.322	4.071	0.000
0.307	-0.307	4.288	0.000
0.302	-0.302	4.284	0.000
0.311	-0.311	4.102	0.000
0.349	-0.349	3.944	0.000
0.303	-0.303	3.946	0.000
0.287	-0.287	3.899	0.000
0.319	-0.319	3.960	0.000
0.252	-0.252	2.727	0.000
0.304	-0.304	4.002	0.000
0.313	-0.313	4.203	0.000
0.278	-0.278	3.882	0.000
0.307	-0.307	3.882	0.000
0.284	-0.284	3.911	0.000
0.300	-0.300	3.961	0.000
0.302	-0.302	4.012	0.000
0.271	-0.271	3.993	0.000
0.279	-0.279	3.968	0.000
0.307	-0.307	3.953	0.000
0.321	-0.321	4.033	0.000
0.330	-0.330	3.908	0.000
0.259	-0.259	4.048	0.000
0.330	-0.330	3.833	0.000
0.241	-0.241	3.649	0.000
0.289	-0.289	3.857	0.000
0.306	-0.306	4.068	0.000
0.281	-0.281	3.790	0.000
0.284	-0.284	3.910	0.000
0.282	-0.282	3.929	0.000
0.287	-0.287	3.912	0.000
0.268	-0.268	3.757	0.000
0.295	-0.295	3.875	0.000
0.306	-0.306	3.551	0.000
0.272	-0.272	3.805	0.000
0.290	-0.290	3.843	0.000

Interbasin Transfer						
Catawba	% of Permitted MDD Transfer	Yadkin	% of Permitted MDD Transfer	Grandfathered IBT from Second Creek - South Yadkin River Basin	% of Permitted MDD Transfer	IBT from Yadkin River South Yadkin Basin
0.000	0.000%	3.387	33.870%	-0.321	-5.350%	0.223
0.000	0.000%	3.380	33.800%	-0.334	-5.567%	0.235
0.000	0.000%	3.252	32.520%	-0.350	-5.833%	0.250
0.000	0.000%	3.663	36.630%	-0.312	-5.200%	0.243
0.000	0.000%	3.884	38.840%	-0.384	-6.400%	0.280
0.000	0.000%	4.065	40.650%	-0.316	-5.267%	0.381
0.000	0.000%	4.193	41.930%	-0.371	-6.183%	0.265
0.000	0.000%	4.350	43.500%	-0.348	-5.800%	0.266
0.000	0.000%	3.665	36.650%	-0.314	-5.233%	0.250
0.000	0.000%	4.005	40.050%	-0.315	-5.250%	0.245
0.000	0.000%	4.170	41.700%	-0.342	-5.700%	0.300
0.000	0.000%	4.215	42.150%	-0.322	-5.367%	0.279
0.000	0.000%	4.239	42.390%	-0.348	-5.800%	0.262
0.000	0.000%	4.217	42.170%	-0.305	-5.083%	0.316
0.000	0.000%	3.964	39.640%	-0.375	-6.250%	0.218
0.000	0.000%	4.207	42.070%	-0.312	-5.200%	0.245
0.000	0.000%	4.166	41.660%	-0.392	-6.533%	0.274
0.000	0.000%	4.077	40.770%	-0.415	-6.917%	0.235
0.000	0.000%	4.188	41.880%	-0.342	-5.700%	0.230
0.000	0.000%	4.236	42.360%	-0.334	-5.567%	0.251
0.000	0.000%	4.248	42.480%	-0.368	-6.133%	0.219
0.000	0.000%	4.093	40.930%	-0.411	-6.850%	0.237
0.000	0.000%	4.014	40.140%	-0.386	-6.433%	0.215
0.000	0.000%	3.920	39.200%	-0.355	-5.917%	0.220
0.000	0.000%	3.971	39.710%	-0.381	-6.350%	0.190
0.000	0.000%	4.001	40.010%	-0.326	-5.433%	0.225
0.000	0.000%	3.951	39.510%	-0.267	-4.450%	0.273
0.000	0.000%	3.972	39.720%	-0.355	-5.917%	0.235
0.000	0.000%	4.023	40.230%	-0.325	-5.417%	0.242
0.000	0.000%	3.980	39.800%	-0.329	-5.483%	0.175
0.000	0.000%	4.014	40.140%	-0.281	-4.683%	0.260
0.000	0.000%	3.975	39.750%	-0.329	-5.483%	0.180
0.000	0.000%	3.838	38.380%	-0.320	-5.333%	0.236
0.000	0.000%	3.893	38.930%	-0.294	-4.900%	0.261
0.000	0.000%	3.982	39.820%	-0.274	-4.567%	0.248
0.000	0.000%	4.071	40.710%	-0.322	-5.367%	0.234
0.000	0.000%	4.288	42.880%	-0.307	-5.117%	0.269
0.000	0.000%	4.284	42.840%	-0.302	-5.033%	0.295
0.000	0.000%	4.102	41.020%	-0.311	-5.183%	0.200
0.000	0.000%	3.944	39.440%	-0.349	-5.817%	0.170
0.000	0.000%	3.946	39.460%	-0.303	-5.050%	0.374
0.000	0.000%	3.899	38.990%	-0.287	-4.783%	0.454
0.000	0.000%	3.960	39.600%	-0.319	-5.317%	0.319
0.000	0.000%	2.727	27.270%	-0.252	-4.200%	0.252
0.000	0.000%	4.002	40.020%	-0.304	-5.067%	0.304
0.000	0.000%	4.203	42.030%	-0.313	-5.217%	0.313
0.000	0.000%	3.882	38.820%	-0.278	-4.633%	0.278
0.000	0.000%	3.882	38.820%	-0.307	-5.117%	0.307
0.000	0.000%	3.911	39.110%	-0.284	-4.733%	0.284
0.000	0.000%	3.961	39.610%	-0.300	-5.000%	0.300
0.000	0.000%	4.012	40.120%	-0.302	-5.033%	0.302
0.000	0.000%	3.993	39.930%	-0.271	-4.517%	0.271
0.000	0.000%	3.968	39.680%	-0.279	-4.650%	0.279
0.000	0.000%	3.953	39.530%	-0.307	-5.117%	0.307
0.000	0.000%	4.033	40.330%	-0.321	-5.350%	0.321
0.000	0.000%	3.908	39.080%	-0.330	-5.500%	0.330
0.000	0.000%	4.048	40.480%	-0.259	-4.317%	0.259
0.000	0.000%	3.833	38.330%	-0.330	-5.500%	0.330
0.000	0.000%	3.649	36.490%	-0.241	-4.017%	0.241
0.000	0.000%	3.857	38.570%	-0.289	-4.817%	0.289
0.000	0.000%	4.068	40.680%	-0.306	-5.100%	0.306
0.000	0.000%	3.790	37.900%	-0.281	-4.683%	0.281
0.000	0.000%	3.910	39.100%	-0.284	-4.733%	0.284
0.000	0.000%	3.929	39.290%	-0.282	-4.700%	0.282
0.000	0.000%	3.912	39			

Map Code Source Basin	Water Transfer (MGD) to Rocky River Basin				Water Sales (MGD)		IBT Totals Per Basin				Interbasin Transfer								
	Salisbury 1		Albemarle 1	Charlotte 1-3	South Yadkin	South Yadkin	Yadkin	Catawba	Total South Yadkin IBT ¹	Total Yadkin IBT	Total Catawba IBT	Catawba	% of Permitted MDD Transfer	Yadkin	% of Permitted MDD Transfer	Grandfathered IBT from Second Creek - South Yadkin River Basin	% of Permitted MDD Transfer	IBT from Yadkin to South Yadkin Basin	% of Permitted MDD Transfer
	South Yadkin	Yadkin	Yadkin	Catawba															
DATE	Raw Water to Kannapolis Lake from Second Creek	Salisbury Finished water Interconnection with Kannapolis	Albemarle Finished water Interconnection with Concord	Charlotte Water Finished water Interconnections with Concord	Kannapolis water sales to Landis	Finished water sales to Landis													
9/29/2020	0.000	0.000	3.900	0.000	0.295	-0.295	3.900	0.000	0.000	0.000	0.000	0.000%	0.000%	3.900	39.000%	-0.295	-4.917%	0.295	14.824%
9/30/2020	0.000	0.000	3.904	0.000	0.281	-0.281	3.904	0.000	0.000	0.000	0.000	0.000%	0.000%	3.904	39.040%	-0.281	-4.683%	0.281	14.121%
10/1/2020	0.000	0.000	3.677	0.000	0.265	-0.265	3.677	0.000	0.000	0.000	0.000	0.000%	0.000%	3.677	36.770%	-0.265	-4.417%	0.265	13.317%
10/2/2020	0.000	0.000	3.982	0.000	0.292	-0.292	3.982	0.000	0.000	0.000	0.000	0.000%	0.000%	3.982	39.820%	-0.292	-4.867%	0.292	14.673%
10/3/2020	0.000	0.000	3.873	0.000	0.313	-0.313	3.873	0.000	0.000	0.000	0.000	0.000%	0.000%	3.873	38.730%	-0.313	-5.217%	0.313	15.729%
10/4/2020	0.000	0.000	3.834	0.000	0.272	-0.272	3.834	0.000	0.000	0.000	0.000	0.000%	0.000%	3.834	38.340%	-0.272	-4.533%	0.272	13.668%
10/5/2020	0.000	0.000	3.911	0.000	0.305	-0.305	3.911	0.000	0.000	0.000	0.000	0.000%	0.000%	3.911	39.110%	-0.305	-5.083%	0.305	15.327%
10/6/2020	0.000	0.000	4.136	0.000	0.287	-0.287	4.136	0.000	0.000	0.000	0.000	0.000%	0.000%	4.136	41.360%	-0.287	-4.783%	0.287	14.422%
10/7/2020	0.000	0.000	3.943	0.000	0.306	-0.306	3.943	0.000	0.000	0.000	0.000	0.000%	0.000%	3.943	39.430%	-0.306	-5.100%	0.306	15.377%
10/8/2020	0.000	0.000	4.490	0.000	0.308	-0.308	4.490	0.000	0.000	0.000	0.000	0.000%	0.000%	4.490	44.900%	-0.308	-5.133%	0.308	15.477%
10/9/2020	0.000	0.000	3.810	0.000	0.266	-0.266	3.810	0.000	0.000	0.000	0.000	0.000%	0.000%	3.810	38.100%	-0.266	-4.433%	0.266	13.367%
10/10/2020	0.000	0.000	3.778	0.000	0.282	-0.282	3.778	0.000	0.000	0.000	0.000	0.000%	0.000%	3.778	37.780%	-0.282	-4.700%	0.282	14.171%
10/11/2020	0.000	0.000	3.571	0.000	0.295	-0.295	3.571	0.000	0.000	0.000	0.000	0.000%	0.000%	3.571	35.710%	-0.295	-4.917%	0.295	14.824%
10/12/2020	0.000	0.000	3.630	0.000	0.232	-0.232	3.630	0.000	0.000	0.000	0.000	0.000%	0.000%	3.630	36.300%	-0.232	-3.867%	0.232	11.658%
10/13/2020	0.000	0.000	3.804	0.000	0.275	-0.275	3.804	0.000	0.000	0.000	0.000	0.000%	0.000%	3.804	38.040%	-0.275	-4.583%	0.275	13.819%
10/14/2020	0.000	0.000	4.008	0.000	0.321	-0.321	4.008	0.000	0.000	0.000	0.000	0.000%	0.000%	4.008	40.080%	-0.321	-5.350%	0.321	16.131%
10/15/2020	0.000	0.000	3.601	0.000	0.251	-0.251	3.601	0.000	0.000	0.000	0.000	0.000%	0.000%	3.601	36.010%	-0.251	-4.183%	0.251	12.613%
10/16/2020	0.000	0.000	3.908	0.000	0.283	-0.283	3.908	0.000	0.000	0.000	0.000	0.000%	0.000%	3.908	39.080%	-0.283	-4.717%	0.283	14.221%
10/17/2020	0.000	0.000	3.708	0.000	0.303	-0.303	3.708	0.000	0.000	0.000	0.000	0.000%	0.000%	3.708	37.080%	-0.303	-5.050%	0.303	15.226%
10/18/2020	0.000	0.000	3.850	0.000	0.288	-0.288	3.850	0.000	0.000	0.000	0.000	0.000%	0.000%	3.850	38.500%	-0.288	-4.800%	0.288	14.472%
10/19/2020	0.000	0.000	3.805	0.000	0.255	-0.255	3.805	0.000	0.000	0.000	0.000	0.000%	0.000%	3.805	38.050%	-0.255	-4.250%	0.255	12.814%
10/20/2020	0.000	0.000	4.034	0.000	0.317	-0.317	4.034	0.000	0.000	0.000	0.000	0.000%	0.000%	4.034	40.340%	-0.317	-5.283%	0.317	15.930%
10/21/2020	0.000	0.000	3.969	0.000	0.257	-0.257	3.969	0.000	0.000	0.000	0.000	0.000%	0.000%	3.969	39.690%	-0.257	-4.283%	0.257	12.915%
10/22/2020	0.000	0.000	3.944	0.000	0.318	-0.318	3.944	0.000	0.000	0.000	0.000	0.000%	0.000%	3.944	39.440%	-0.318	-5.300%	0.318	15.980%
10/23/2020	0.000	0.000	4.036	0.000	0.296	-0.296	4.036	0.000	0.000	0.000	0.000	0.000%	0.000%	4.036	40.360%	-0.296	-4.933%	0.296	14.874%
10/24/2020	0.000	0.000	4.070	0.000	0.291	-0.291	4.070	0.000	0.000	0.000	0.000	0.000%	0.000%	4.070	40.700%	-0.291	-4.850%	0.291	14.623%
10/25/2020	0.000	0.000	3.896	0.000	0.271	-0.271	3.896	0.000	0.000	0.000	0.000	0.000%	0.000%	3.896	38.960%	-0.271	-4.517%	0.271	13.618%
10/26/2020	0.000	0.000	3.654	0.000	0.271	-0.271	3.654	0.000	0.000	0.000	0.000	0.000%	0.000%	3.654	36.540%	-0.271	-4.517%	0.271	13.618%
10/27/2020	0.000	0.000	3.964	0.000	0.277	-0.277	3.964	0.000	0.000	0.000	0.000	0.000%	0.000%	3.964	39.640%	-0.277	-4.617%	0.277	13.920%
10/28/2020	0.000	0.000	4.296	0.000	0.257	-0.257	4.296	0.000	0.000	0.000	0.000	0.000%	0.000%	4.296	42.960%	-0.257	-4.283%	0.257	12.915%
10/29/2020	0.000	0.000	4.156	0.000	0.261	-0.261	4.156	0.000	0.000	0.000	0.000	0.000%	0.000%	4.156	41.560%	-0.261	-4.350%	0.261	13.116%
10/30/2020	0.000	0.000	4.012	0.000	0.283	-0.283	4.012	0.000	0.000	0.000	0.000	0.000%	0.000%	4.012	40.120%	-0.283	-4.717%	0.283	14.221%
10/31/2020	0.000	0.000	4.252	0.000	0.231	-0.231	4.252	0.000	0.000	0.000	0.000	0.000%	0.000%	4.252	42.520%	-0.231	-3.850%	0.231	11.608%
11/1/2020	0.000	0.000	3.920	0.000	0.284	-0.284	3.920	0.000	0.000	0.000	0.000	0.000%	0.000%	3.920	39.200%	-0.284	-4.733%	0.284	14.271%
11/2/2020	0.000	0.000	4.365	0.000	0.251	-0.251	4.365	0.000	0.000	0.000	0.000	0.000%	0.000%	4.365	43.650%	-0.251	-4.183%	0.251	12.613%
11/3/2020	0.000	0.000	3.831	0.000	0.250	-0.250	3.831	0.000	0.000	0.000	0.000	0.000%	0.000%	3.831	38.310%	-0.250	-4.167%	0.250	12.563%
11/4/2020	0.000	0.000	4.267	0.000	0.241	-0.241	4.267	0.000	0.000	0.000	0.000	0.000%	0.000%	4.267	42.670%	-0.241	-4.017%	0.241	12.111%
11/5/2020	0.000	0.000	4.056	0.000	0.241	-0.241	4.056	0.000	0.000	0.000	0.000	0.000%	0.000%	4.056	40.560%	-0.241	-4.017%	0.241	12.111%
11/6/2020	0.000	0.000	4.037	0.000	0.250	-0.250	4.037	0.000	0.000	0.000	0.000	0.000%	0.000%	4.037	40.370%	-0.250	-4.167%	0.250	12.563%
11/7/2020	0.000	0.000	4.002	0.000	0.256	-0.256	4.002	0.000	0.000	0.000	0.000	0.000%	0.000%	4.002	40.020%	-0.256	-4.267%	0.256	12.864%
11/8/2020	0.000	0.000	4.094	0.000	0.254	-0.254	4.094	0.000	0.000	0.000	0.000	0.000%	0.000%	4.094	40.940%	-0.254	-4.233%	0.254	12.764%
11/9/2020	0.000	0.000	4.034	0.000	0.311	-0.311	4.034	0.000	0.000	0.000	0.000	0.000%	0.000%	4.034	40.340%	-0.311	-5.183%	0.311	15.628%
11/10/2020	0.000	0.000	4.116	0.000	0.280	-0.280	4.116	0.000	0.000	0.000	0.000	0.000%	0.000%	4.116	41.160%	-0.280	-4.667%	0.280	14.070%
11/11/2020	0.000	0.000	3.736	0.000	0.252	-0.252	3.736	0.000	0.000	0.000	0.000	0.000%	0.000%	3.736	37.360%	-0.252	-4.200%	0.252	12.663%
11/12/2020	0.000	0.000	3.934	0.000	0.215	-0.215	3.934	0.000	0.000	0.000	0.000	0.000%	0.000%	3.934	39.340%	-0.215	-3.583%	0.215	10.804%
11/13/2020	0.000	0.000	4.020	0.000	0.268	-0.268	4.020	0.000	0.000	0.000	0.000	0.000%	0.000%	4.020	40.200%	-0.268	-4.467%	0.268	13.467%
11/14/2020	0.000	0.000	3.830	0.000	0.254	-0.254	3.830	0.000	0.000	0.000	0.000	0.000%	0.000%	3.830	38.300%	-0.254	-4.233%	0.254	12.764%
11/15/2020	0.000	0.000	3.750	0.000	0.219	-0.219	3.750	0.000	0.000	0.000	0.000	0.000%	0.000%	3.750	37.500%	-0.219	-3.650%	0.219	11.005%
11/16/2020	0.000	0.000	3.849	0.000	0.309	-0.309	3.849	0.000	0.000	0.000	0.000	0.000%	0.000%	3.849	38.490%	-0.309	-5.150%	0.309	15.528%
11/17/2020	0.000	0.000	3.761	0.000	0.206	-0.206	3.761	0.000	0.000	0.000	0.000	0.000%	0.000%	3.761	37.610%	-0.206	-3.433%	0.206	10.352%
11/18/2020	0.000	0.000	3.875	0.000	0.252	-0.252	3.875	0.0											

Map Code Source Basin	Water Transfer (MGD) to Rocky River Basin			
	Salisbury 1	Albemarle 1	Charlotte 1-3	
	South Yadkin	Yadkin	Yadkin	Catawba
DATE	Raw Water to Kannapolis Lake from Second Creek	Salisbury Finished water Interconnection with Kannapolis	Albemarle Finished water Interconnection with Concord	Charlotte Water Finished water Interconnections with Concord
12/8/2020	0.000	0.000	3.786	
12/9/2020	0.000	0.000	3.882	
12/10/2020	0.000	0.000	3.837	
12/11/2020	0.000	0.000	3.869	
12/12/2020	0.000	0.000	3.857	
12/13/2020	0.000	0.000	3.984	
12/14/2020	0.000	0.000	3.925	
12/15/2020	0.000	0.000	3.888	
12/16/2020	0.000	0.000	3.947	
12/17/2020	0.000	0.000	3.605	
12/18/2020	0.000	0.000	3.943	
12/19/2020	0.000	0.000	3.832	
12/20/2020	0.000	0.000	3.749	
12/21/2020	0.000	0.000	3.697	
12/22/2020	0.000	0.000	3.837	
12/23/2020	0.000	0.000	3.749	
12/24/2020	0.000	0.000	3.701	
12/25/2020	0.000	0.000	3.961	
12/26/2020	0.000	0.000	3.759	
12/27/2020	0.000	0.000	3.856	
12/28/2020	0.000	0.000	3.953	
12/29/2020	0.000	0.000	3.934	
12/30/2020	0.000	0.000	3.924	
12/31/2020	0.000	0.000	3.196	
AVG 2019	0.000	0.001	3.465	1.119
MAX 2019	0.000	0.302	4.490	1.832

Water Sales (MGD)	IBT Totals Per Basin		
	NOTE: All Wastewater discharge is to the Rocky River from RRWWTP, excluding water sales to Landis (subtracted from Total South Yadkin IBT).		
South Yadkin	South Yadkin	Yadkin	Catawba
Kannapolis Finished water sales to Landis	Total South Yadkin IBT ¹	Total Yadkin IBT	Total Catawba IBT
0.247	-0.247	3.786	0.000
0.206	-0.206	3.882	0.000
0.200	-0.200	3.837	0.000
0.247	-0.247	3.869	0.000
0.206	-0.206	3.857	0.000
0.248	-0.248	3.984	0.000
0.208	-0.208	3.925	0.000
0.246	-0.246	3.888	0.000
0.206	-0.206	3.947	0.000
0.204	-0.204	3.605	0.000
0.248	-0.248	3.943	0.000
0.210	-0.210	3.832	0.000
0.249	-0.249	3.749	0.000
0.211	-0.211	3.697	0.000
0.275	-0.275	3.837	0.000
0.253	-0.253	3.749	0.000
0.223	-0.223	3.701	0.000
0.196	-0.196	3.961	0.000
0.244	-0.244	3.759	0.000
0.212	-0.212	3.856	0.000
0.203	-0.203	3.953	0.000
0.250	-0.250	3.934	0.000
0.210	-0.210	3.924	0.000
0.199	-0.199	3.196	0.000
0.272	0.208	3.458	0.006
0.415	0.449	4.490	1.832

Interbasin Transfer							
Catawba	% of Permitted MDD Transfer	Yadkin	% of Permitted MDD Transfer	Grandfathered IBT from Second Creek - South Yadkin River Basin	% of Permitted MDD Transfer	IBT from Yadkin to South Yadkin River Basin	% of Permitted MDD Transfer
0.000	0.000%	3.786	37.860%	-0.247	-4.117%	0.247	12.412%
0.000	0.000%	3.882	38.820%	-0.206	-3.433%	0.206	10.352%
0.000	0.000%	3.837	38.370%	-0.200	-3.333%	0.200	10.050%
0.000	0.000%	3.869	38.690%	-0.247	-4.117%	0.247	12.412%
0.000	0.000%	3.857	38.570%	-0.206	-3.433%	0.206	10.352%
0.000	0.000%	3.984	39.840%	-0.248	-4.133%	0.248	12.462%
0.000	0.000%	3.925	39.250%	-0.208	-3.467%	0.208	10.452%
0.000	0.000%	3.888	38.880%	-0.246	-4.100%	0.246	12.362%
0.000	0.000%	3.947	39.470%	-0.206	-3.433%	0.206	10.352%
0.000	0.000%	3.605	36.050%	-0.204	-3.400%	0.204	10.251%
0.000	0.000%	3.943	39.430%	-0.248	-4.133%	0.248	12.462%
0.000	0.000%	3.832	38.320%	-0.210	-3.500%	0.210	10.553%
0.000	0.000%	3.749	37.490%	-0.249	-4.150%	0.249	12.513%
0.000	0.000%	3.697	36.970%	-0.211	-3.517%	0.211	10.603%
0.000	0.000%	3.837	38.370%	-0.275	-4.583%	0.275	13.819%
0.000	0.000%	3.749	37.490%	-0.253	-4.217%	0.253	12.714%
0.000	0.000%	3.701	37.010%	-0.223	-3.717%	0.223	11.206%
0.000	0.000%	3.961	39.610%	-0.196	-3.267%	0.196	9.849%
0.000	0.000%	3.759	37.590%	-0.244	-4.067%	0.244	12.261%
0.000	0.000%	3.856	38.560%	-0.212	-3.533%	0.212	10.653%
0.000	0.000%	3.953	39.530%	-0.203	-3.383%	0.203	10.201%
0.000	0.000%	3.934	39.340%	-0.250	-4.167%	0.250	12.563%
0.000	0.000%	3.924	39.240%	-0.210	-3.500%	0.210	10.553%
0.000	0.000%	3.196	31.960%	-0.199	-3.317%	0.199	10.000%
0.006	0.061%	3.458	34.581%	-0.272	-4.532%	0.253	12.707%
1.832	18.320%	4.490	44.900%	-0.186	-3.100%	0.454	22.814%

¹ Transfers from Second Creek to Kannapolis Lake (South Yadkin Basin to Rocky River Basin) shall not exceed 6 MGD; positive numbers represent this direction of transfer as dominate
Transfers from Kannapolis (via purchase from Salisbury) to Landis (Yadkin Basin to South Yadkin Basin) shall not exceed 2 MGD; negative numbers represent this direction of transfer as the dominate