

**2021 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 2022

Executive Summary

The 2021 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 2020 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 2021, 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 3.50 mgd during 2021. The maximum daily transfer from the Yadkin River Basin was 5.23 mgd.

In 2021, 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 2021 was -0.10 mgd. The 2021 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

2021 IBT Average Annual & Maximum Day Demands for Concord and Kannapolis Service Areas

Year	Catawba River Basin ^e			Yadkin River Basin			Second Creek ^{c,d} (South Yadkin River Basin)		
	Water Purchase (mgd)	IBT as % of Certificate ^a	IBT as % of Certificate ^a	Water Purchase (mgd)	IBT as % of Certificate ^{b,c}	IBT as % of Certificate ^{b,c}	Water Transfer (mgd)	IBT as % of Grand- fathered amount	IBT as % of Grand- fathered amount
	Average Annual	Max. Day	Max. Day	Average Annual	Max. Day	Max. Day	Average Annual	Max. Day	Max. Day
2021	0.479	3.50	35.0%	3.42	5.23	52.31%	-0.26	-0.10	-1.68%

^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.

^e During the months of July and August, there was a valve failure on Charlotte’s side which allowed 3.5 MGD to leak into Concord. Once this failure was caught, Concord and Charlotte worked together to resolve the issue.

2021 Daily IBT Per Basin (mgd)

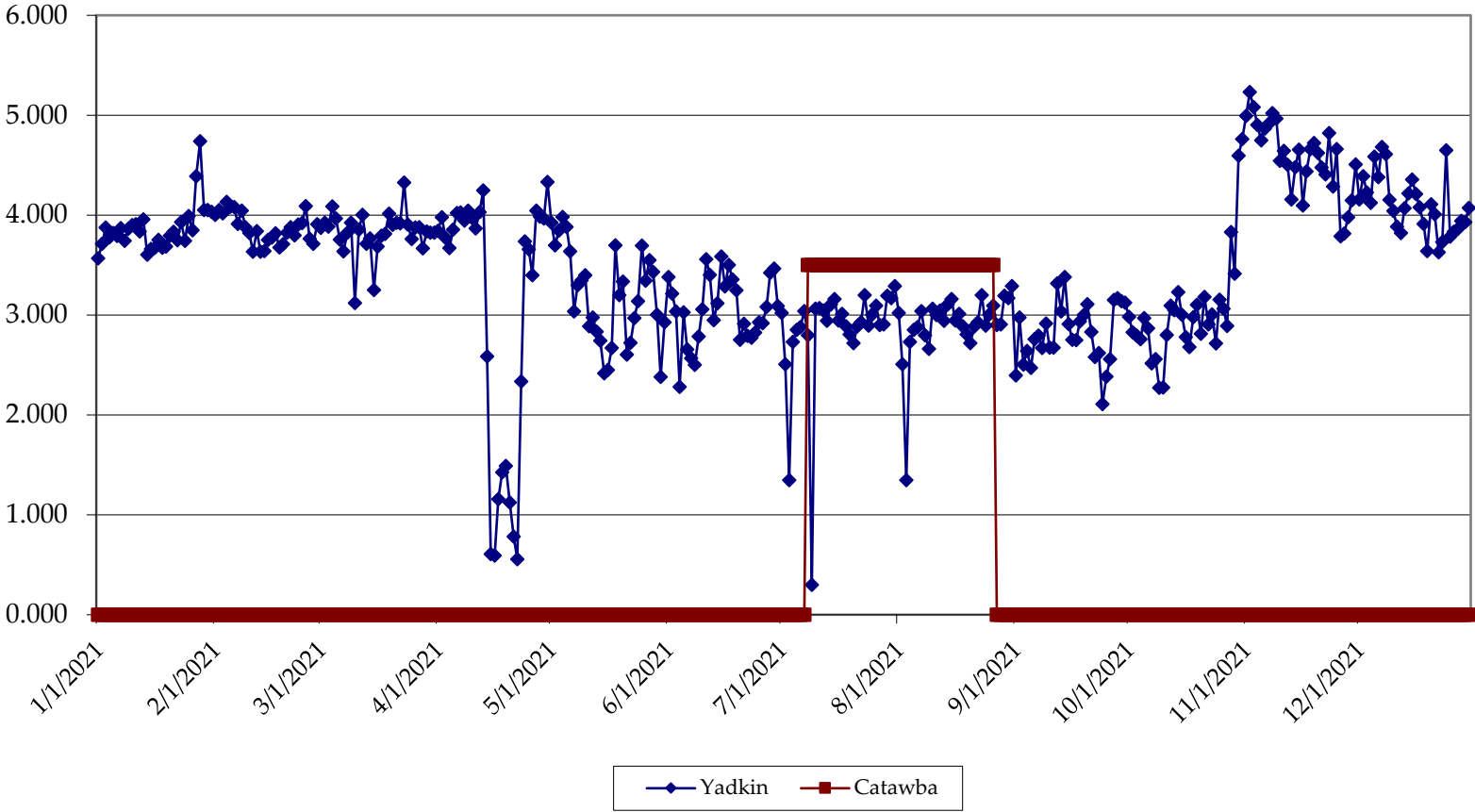


Figure ES-1
2021 Daily Interbasin Transfers by Basin

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Daily Interbasin Transfer Amounts for 2021

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

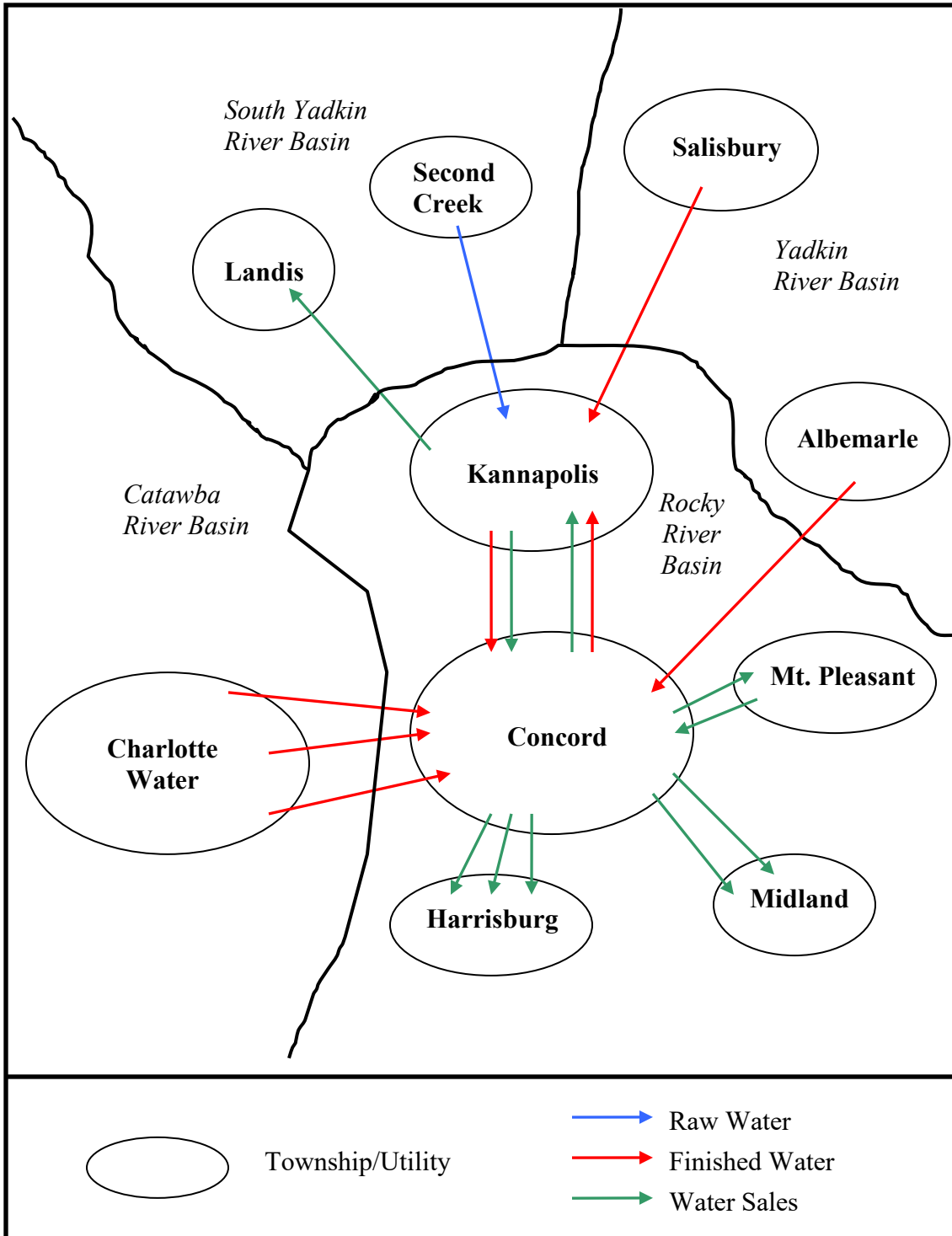
The Cities of Concord and Kannapolis (Cities) received an interbasin transfer (IBT) Certificate, which was originally approved on January 10, 2007, and signed into effect on January 25, 2007. The North Carolina Environmental Management Commission (EMC) has authorized transfers of up to 10 million gallons 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 2020 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 2021 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 2021 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 2021, finished water production averaged 13.93 mgd, purchased IBT finished water averaged 0.479 mgd for Catawba River Basin, 3.42 mgd for the Yadkin River Basin and -0.26 mgd for Second Creek. The combined 2021 annual average water use for the Certificate Holders was 17.569 mgd.

Table 2-1

2021 Water Production or Purchases by River Basin

2021					
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	13.93	0.479	3.42	-0.26	17.569

^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, 2021 through December 31, 2021. The maximum day IBT from the Catawba River Basin during the calendar year 2021 was 3.50 mgd. This represents 35% 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 2021 was 5.23 mgd. This represents 52.31% 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 -0.10 mgd, which represents -1.68% 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

2021 IBT Average Annual & Maximum Day Demands for Concord and Kannapolis Service Areas

Year	Catawba River Basin ^e			Yadkin River Basin			Second Creek ^{e,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
2021	0.479	3.50	35%	3.42	5.23	52.31%	-0.26	-0.10	-1.68%

^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.

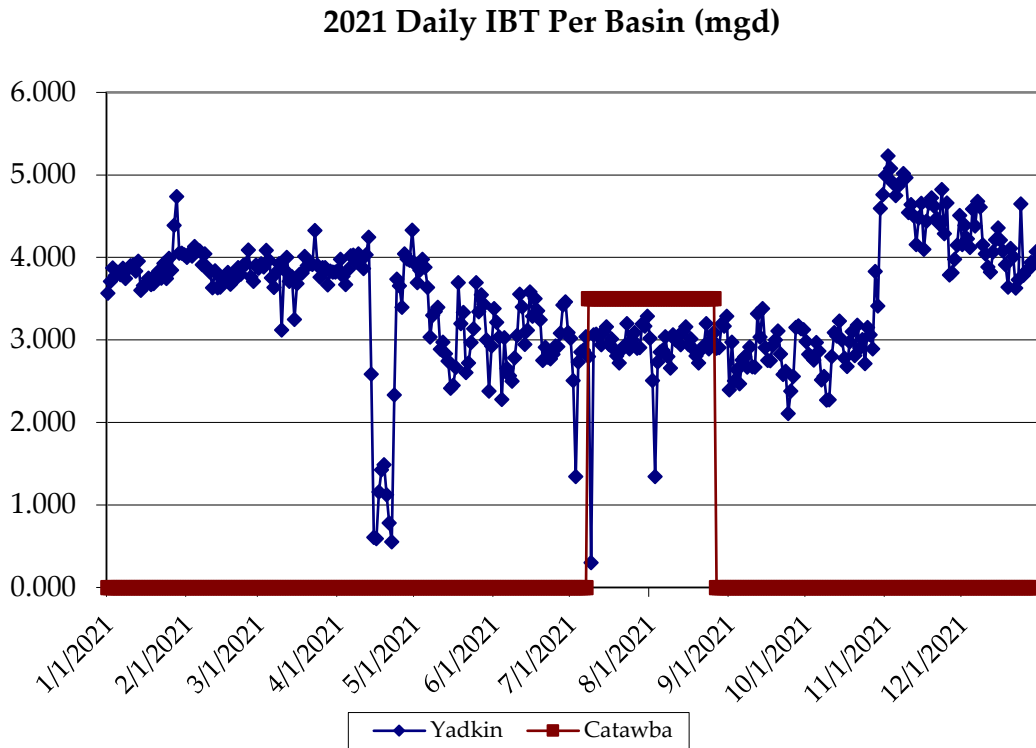
^d There was no transfer from Second Creek, therefore these numbers are negative.

^e During the months of July and August, there was a valve failure on Charlotte’s side which allowed 3.5 MGD to leak into Concord. Once this failure was caught, Concord and Charlotte worked together to resolve the issue.

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

Figure 2-1

2021 Daily Interbasin Transfers by Basin



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.

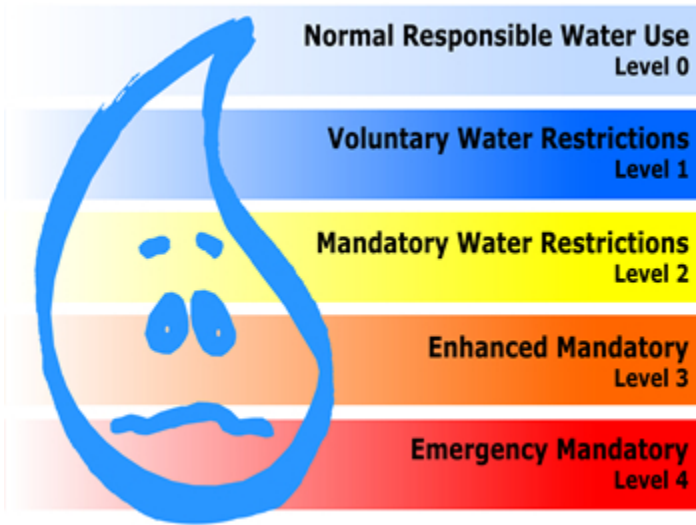
The Cities submitted the Drought Management Plan on July 31, 2007; comments were received on November 11, 2007, and the revised plan was submitted on January 8, 2008. The Drought Management Plan was incorporated into an updated Water Shortage Response Plan (WSRP) in 2010. The WSRP, prepared as a joint 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 2021 (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 2021 Normal and Drought Stages

2021 Period of Drought					
Drought Stage	Drought Monitor Classification	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 2021.

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 2021. 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 2021.

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 2021

2021 Concord-Kannapolis IBT Tracking

Condition of IBT Certificate (January 25, 2017)

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)

Calculated Fields

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	NOTE: All Wastewater discharge is to the Rocky River from RRWWTP, excluding water sales to Lands (subtracted from Total South Yadkin IBT).			Grandfathered IBT from Second Creek - South Yadkin River Basin							
	South Yadkin	Yadkin	Yadkin	Catawba		South Yadkin	Yadkin	Catawba	Catawba	% of Permitted MDD Transfer	Yadkin	% of Permitted MDD Transfer	IBT from South 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 Interconnections with Concord	Kannapolis Finished water sales to Lands	Total South Yadkin IBT ¹	Total Yadkin IBT	Total Catawba IBT	Catawba	% of Permitted MDD Transfer	Yadkin	% of Permitted MDD Transfer	IBT from South Yadkin to South Yadkin River Basin	% of Permitted MDD Transfer		
1/1/2021	0.000	0.000	3.566	0.000	0.307	-0.307	3.566	0.000	0.000	0.000%	3.566	35.660%	-0.307	-5.117%	0.307	15.427%
1/2/2021	0.000	0.000	3.711	0.000	0.203	-0.203	3.711	0.000	0.000	0.000%	3.711	37.110%	-0.203	-3.383%	0.203	10.201%
1/3/2021	0.000	0.000	3.874	0.000	0.208	-0.208	3.874	0.000	0.000	0.000%	3.874	38.740%	-0.208	-3.467%	0.208	10.452%
1/4/2021	0.000	0.000	3.779	0.000	0.207	-0.207	3.779	0.000	0.000	0.000%	3.779	37.790%	-0.207	-3.450%	0.207	10.402%
1/5/2021	0.000	0.000	3.820	0.000	0.242	-0.242	3.820	0.000	0.000	0.000%	3.820	38.200%	-0.242	-4.033%	0.242	12.161%
1/6/2021	0.000	0.000	3.791	0.000	0.210	-0.210	3.791	0.000	0.000	0.000%	3.791	37.910%	-0.210	-3.500%	0.210	10.553%
1/7/2021	0.000	0.000	3.869	0.000	0.202	-0.202	3.869	0.000	0.000	0.000%	3.869	38.690%	-0.202	-3.367%	0.202	10.151%
1/8/2021	0.000	0.000	3.744	0.000	0.244	-0.244	3.744	0.000	0.000	0.000%	3.744	37.440%	-0.244	-4.067%	0.244	12.261%
1/9/2021	0.000	0.000	3.863	0.000	0.210	-0.210	3.863	0.000	0.000	0.000%	3.863	38.630%	-0.210	-3.500%	0.210	10.553%
1/10/2021	0.000	0.000	3.901	0.000	0.246	-0.246	3.901	0.000	0.000	0.000%	3.901	39.010%	-0.246	-4.100%	0.246	12.362%
1/11/2021	0.000	0.000	3.908	0.000	0.216	-0.216	3.908	0.000	0.000	0.000%	3.908	39.080%	-0.216	-3.600%	0.216	10.854%
1/12/2021	0.000	0.000	3.836	0.000	0.256	-0.256	3.836	0.000	0.000	0.000%	3.836	38.360%	-0.256	-4.267%	0.256	12.864%
1/13/2021	0.000	0.000	3.956	0.000	0.244	-0.244	3.956	0.000	0.000	0.000%	3.956	39.560%	-0.244	-4.067%	0.244	12.261%
1/14/2021	0.000	0.000	3.603	0.000	0.245	-0.245	3.603	0.000	0.000	0.000%	3.603	36.030%	-0.245	-4.083%	0.245	12.312%
1/15/2021	0.000	0.000	3.662	0.000	0.203	-0.203	3.662	0.000	0.000	0.000%	3.662	36.620%	-0.203	-3.383%	0.203	10.201%
1/16/2021	0.000	0.000	3.673	0.000	0.231	-0.231	3.673	0.000	0.000	0.000%	3.673	36.730%	-0.231	-3.850%	0.231	11.608%
1/17/2021	0.000	0.000	3.751	0.000	0.231	-0.231	3.751	0.000	0.000	0.000%	3.751	37.510%	-0.231	-3.850%	0.231	11.608%
1/18/2021	0.000	0.000	3.673	0.000	0.209	-0.209	3.673	0.000	0.000	0.000%	3.673	36.730%	-0.209	-3.483%	0.209	10.503%
1/19/2021	0.000	0.000	3.685	0.000	0.247	-0.247	3.685	0.000	0.000	0.000%	3.685	36.850%	-0.247	-4.117%	0.247	12.412%
1/20/2021	0.000	0.000	3.794	0.000	0.207	-0.207	3.794	0.000	0.000	0.000%	3.794	37.940%	-0.207	-3.450%	0.207	10.402%
1/21/2021	0.000	0.000	3.833	0.000	0.221	-0.221	3.833	0.000	0.000	0.000%	3.833	38.330%	-0.221	-3.683%	0.221	11.106%
1/22/2021	0.000	0.000	3.748	0.000	0.231	-0.231	3.748	0.000	0.000	0.000%	3.748	37.480%	-0.231	-3.850%	0.231	11.608%
1/23/2021	0.000	0.000	3.929	0.000	0.243	-0.243	3.929	0.000	0.000	0.000%	3.929	39.290%	-0.243	-4.050%	0.243	12.211%
1/24/2021	0.000	0.000	3.744	0.000	0.224	-0.224	3.744	0.000	0.000	0.000%	3.744	37.440%	-0.224	-3.733%	0.224	11.256%
1/25/2021	0.000	0.000	3.989	0.000	0.250	-0.250	3.989	0.000	0.000	0.000%	3.989	39.890%	-0.250	-4.167%	0.250	12.563%
1/26/2021	0.000	0.000	3.848	0.000	0.204	-0.204	3.848	0.000	0.000	0.000%	3.848	38.480%	-0.204	-3.400%	0.204	10.251%
1/27/2021	0.000	0.000	4.390	0.000	0.25	-0.250	4.390	0.000	0.000	0.000%	4.390	43.900%	-0.250	-4.167%	0.250	12.563%
1/28/2021	0.000	0.000	4.740	0.000	0.213	-0.213	4.740	0.000	0.000	0.000%	4.740	47.400%	-0.213	-3.550%	0.213	10.704%
1/29/2021	0.000	0.000	4.052	0.000	0.208	-0.208	4.052	0.000	0.000	0.000%	4.052	40.520%	-0.208	-3.467%	0.208	10.452%
1/30/2021	0.000	0.000	4.052	0.000	0.249	-0.249	4.052	0.000	0.000	0.000%	4.052	40.520%	-0.249	-4.150%	0.249	12.513%
1/31/2021	0.000	0.000	4.032	0.000	0.24	-0.240	4.032	0.000	0.000	0.000%	4.032	40.320%	-0.240	-4.000%	0.240	12.060%
2/1/2021	0.000	0.000	4.003	0.000	0.205	-0.205	4.003	0.000	0.000	0.000%	4.003	40.030%	-0.205	-3.417%	0.205	10.302%
2/2/2021	0.000	0.000	4.052	0.000	0.336	-0.336	4.052	0.000	0.000	0.000%	4.052	40.520%	-0.336	-5.600%	0.336	16.884%
2/3/2021	0.000	0.000	4.018	0.000	0.317	-0.317	4.018	0.000	0.000	0.000%	4.018	40.180%	-0.317	-5.283%	0.317	15.930%
2/4/2021	0.000	0.000	4.132	0.000	0.253	-0.253	4.132	0.000	0.000	0.000%	4.132	41.320%	-0.253	-4.217%	0.253	12.714%
2/5/2021	0.000	0.000	4.084	0.000	0.247	-0.247	4.084	0.000	0.000	0.000%	4.084	40.840%	-0.247	-4.117%	0.247	12.412%
2/6/2021	0.000	0.000	4.080	0.000	0.205	-0.205	4.080	0.000	0.000	0.000%	4.080	40.800%	-0.205	-3.417%	0.205	10.302%
2/7/2021	0.000	0.000	3.913	0.000	0.236	-0.236	3.913	0.000	0.000	0.000%	3.913	39.130%	-0.236	-3.933%	0.236	11.859%
2/8/2021	0.000	0.000	4.045	0.000	0.218	-0.218	4.045	0.000	0.000	0.000%	4.045	40.450%	-0.218	-3.633%	0.218	10.955%
2/9/2021	0.000	0.000	3.878	0.000	0.253	-0.253	3.878	0.000	0.000	0.000%	3.878	38.780%	-0.253	-4.217%	0.253	12.714%
2/10/2021	0.000	0.000	3.822	0.000	0.301	-0.301	3.822	0.000	0.000	0.000%	3.822	38.220%	-0.301	-5.017%	0.301	15.126%
2/11/2021	0.000	0.000	3.634	0.000	0.255	-0.255	3.634	0.000	0.000	0.000%	3.634	36.340%	-0.255	-4.250%	0.255	12.814%
2/12/2021	0.000	0.000	3.839	0.000	0.21	-0.210	3.839	0.000	0.000	0.000%	3.839	38.390%	-0.210	-3.500%	0.210	10.553%
2/13/2021	0.000	0.000	3.633	0.000	0.253	-0.253	3.633	0.000	0.000	0.000%	3.633	36.330%	-0.253	-4.217%	0.253	12.714%
2/14/2021	0.000	0.000	3.640	0.000	0.200	-0.200	3.640	0.000	0.000	0.000%	3.640	36.400%	-0.200	-3.333%	0.200	10.050%
2/15/2021	0.000	0.000	3.751	0.000	0.287	-0.287	3.751	0.000	0.000	0.000%	3.751	37.510%	-0.287	-4.783%	0.287	14.422%
2/16/2021	0.000	0.000	3.775	0.000	0.208	-0.208	3.775	0.000	0.000	0.000%	3.775	37.750%	-0.208	-3.467%	0.208	10.452%
2/17/2021	0.000	0.000	3.819	0.000	0.241	-0.241	3.819	0.000	0.000	0.000%	3.819	38.190%	-0.241	-4.017%	0.241	12.111%
2/18/2021	0.000	0.000	3.675	0.000	0.213	-0.213	3.675	0.000	0.000	0.000%	3.675	36.750%	-0.213	-3.550%	0.213	10.704%
2/19/2021	0.000	0.000	3.710	0.000	0.202	-0.202	3.710	0.000	0.000	0.000%	3.710	37.100%	-0.202	-3.367%	0.202	10.151%
2/20/2021	0.000	0.000	3.824	0.000	0.255	-0.255	3.824	0.000	0.000	0.000%	3.824	38.240%	-0.255	-4.250%	0.255	12.814%
2/21/2021	0.000	0.000	3.879	0.000	0.209	-0.209	3.879	0.000	0.000	0.000%	3.879	38.790%	-0.209	-3.483%	0.209	10.503%
2/22/2021	0.000	0.000	3.796	0.000	0.251	-0.251	3.796	0.000	0.000	0.000%	3.796	37.960%	-0.251	-4.183%	0.251	12.613%
2/23/2021	0.000	0.000	3.905	0.000	0.204	-0.204	3.905	0.000	0.000	0.000%	3.905	39.050%	-0.204	-3.400%	0.204	10.251%
2/24/2021	0.000	0.000	3.920	0.000	0.254	-0.254	3.920	0.000	0.000	0.000%	3.920	39.200%	-0.254	-4.233%	0.254	12.764%
2/25/2021	0.000	0.000	4.089	0.000	0.210	-0.210	4.089	0.000	0.000	0.000%	4.089	40.890%	-0.210	-3.500%	0.210	10.553%
2/26/2021	0.000	0.000	3.764	0.000	0.257	-0.257	3.764	0.000	0.000	0.000%	3.764	37.640%	-0.257	-4.283%	0.257	12.915%
2/27/2021	0.000	0.000	3.712	0.000	0.206	-0.206	3.712	0.000	0.000	0.000%	3.712	37.120%	-0.206	-3.433%	0.206	10.352%
2/28/2021	0.000	0.000	3.909	0.000	0.246	-0.246	3.909	0.000	0.000	0.000%	3.909	39.090%	-0.246	-4.100%	0.246	12.362%
3/1/2021	0.000	0.000	3.871	0.000	0.207	-0.207	3.871	0.000	0.000	0.000%	3.871	38.710%	-0.207	-3.450%	0.207	10.402%

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		NOTE: All Wastewater discharge is to the Rocky River from RRWWTP, excluding water sales to Landis (subtracted from Total South Yadkin IBT).									
	South Yadkin	Yadkin	Yadkin	Catawba	South Yadkin	South 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 Interconnections with Concord	Kannapolis Finished water sales to Landis	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 River Basin	% of Permitted MDD Transfer
3/2/2021	0.000	0.000	3.923	0.000	0.244	-0.244	3.923	0.000	0.000	0.000%	3.923	39.230%	-0.244	-4.067%	0.244	12.261%
3/3/2021	0.000	0.000	3.886	0.000	0.210	-0.210	3.886	0.000	0.000	0.000%	3.886	38.860%	-0.210	-3.500%	0.210	10.553%
3/4/2021	0.000	0.000	4.088	0.000	0.248	-0.248	4.088	0.000	0.000	0.000%	4.088	40.880%	-0.248	-4.133%	0.248	12.462%
3/5/2021	0.000	0.000	3.966	0.000	0.206	-0.206	3.966	0.000	0.000	0.000%	3.966	39.660%	-0.206	-3.433%	0.206	10.352%
3/6/2021	0.000	0.000	3.755	0.000	0.253	-0.253	3.755	0.000	0.000	0.000%	3.755	37.550%	-0.253	-4.217%	0.253	12.714%
3/7/2021	0.000	0.000	3.636	0.000	0.206	-0.206	3.636	0.000	0.000	0.000%	3.636	36.360%	-0.206	-3.433%	0.206	10.352%
3/8/2021	0.000	0.000	3.824	0.000	0.251	-0.251	3.824	0.000	0.000	0.000%	3.824	38.240%	-0.251	-4.183%	0.251	12.613%
3/9/2021	0.000	0.000	3.923	0.000	0.22	-0.220	3.923	0.000	0.000	0.000%	3.923	39.230%	-0.220	-3.667%	0.220	11.055%
3/10/2021	0.000	0.000	3.120	0.000	0.243	-0.243	3.120	0.000	0.000	0.000%	3.120	31.200%	-0.243	-4.050%	0.243	12.211%
3/11/2021	0.000	0.000	3.855	0.000	0.330	-0.330	3.855	0.000	0.000	0.000%	3.855	38.550%	-0.330	-5.500%	0.330	16.583%
3/12/2021	0.000	0.000	4.002	0.000	0.276	-0.276	4.002	0.000	0.000	0.000%	4.002	40.020%	-0.276	-4.800%	0.276	13.869%
3/13/2021	0.000	0.000	3.711	0.000	0.250	-0.250	3.711	0.000	0.000	0.000%	3.711	37.110%	-0.250	-4.167%	0.250	12.563%
3/14/2021	0.000	0.000	3.767	0.000	0.205	-0.205	3.767	0.000	0.000	0.000%	3.767	37.670%	-0.205	-3.417%	0.205	10.302%
3/15/2021	0.000	0.000	3.250	0.000	0.232	-0.232	3.250	0.000	0.000	0.000%	3.250	32.500%	-0.232	-3.867%	0.232	11.858%
3/16/2021	0.000	0.000	3.685	0.000	0.214	-0.214	3.685	0.000	0.000	0.000%	3.685	36.850%	-0.214	-3.567%	0.214	10.754%
3/17/2021	0.000	0.000	3.795	0.000	0.206	-0.206	3.795	0.000	0.000	0.000%	3.795	37.950%	-0.206	-3.433%	0.206	10.352%
3/18/2021	0.000	0.000	3.812	0.000	0.196	-0.196	3.812	0.000	0.000	0.000%	3.812	38.120%	-0.196	-3.267%	0.196	9.849%
3/19/2021	0.000	0.000	4.015	0.000	0.246	-0.246	4.015	0.000	0.000	0.000%	4.015	40.150%	-0.246	-4.100%	0.246	12.362%
3/20/2021	0.000	0.000	3.902	0.000	0.199	-0.199	3.902	0.000	0.000	0.000%	3.902	39.020%	-0.199	-3.317%	0.199	10.000%
3/21/2021	0.000	0.000	3.923	0.000	0.251	-0.251	3.923	0.000	0.000	0.000%	3.923	39.230%	-0.251	-4.183%	0.251	12.613%
3/22/2021	0.000	0.126	3.792	0.000	0.206	-0.206	3.792	0.000	0.000	0.000%	3.792	37.920%	-0.206	-3.433%	0.206	10.352%
3/23/2021	0.000	0.302	4.024	0.000	0.245	-0.245	4.024	0.000	0.000	0.000%	4.024	40.240%	-0.245	-4.083%	0.245	12.312%
3/24/2021	0.000	0.000	3.905	0.000	0.21	-0.210	3.905	0.000	0.000	0.000%	3.905	39.050%	-0.210	-3.500%	0.210	10.553%
3/25/2021	0.000	0.000	3.762	0.000	0.245	-0.245	3.762	0.000	0.000	0.000%	3.762	37.620%	-0.245	-4.083%	0.245	12.312%
3/26/2021	0.000	0.000	3.876	0.000	0.205	-0.205	3.876	0.000	0.000	0.000%	3.876	38.760%	-0.205	-3.417%	0.205	10.302%
3/27/2021	0.000	0.000	3.879	0.000	0.252	-0.252	3.879	0.000	0.000	0.000%	3.879	38.790%	-0.252	-4.200%	0.252	12.663%
3/28/2021	0.000	0.000	3.668	0.000	0.201	-0.201	3.668	0.000	0.000	0.000%	3.668	36.680%	-0.201	-3.350%	0.201	10.101%
3/29/2021	0.000	0.000	3.836	0.000	0.251	-0.251	3.836	0.000	0.000	0.000%	3.836	38.360%	-0.251	-4.183%	0.251	12.613%
3/30/2021	0.000	0.000	3.825	0.000	0.275	-0.275	3.825	0.000	0.000	0.000%	3.825	38.250%	-0.275	-4.583%	0.275	13.819%
3/31/2021	0.000	0.000	3.825	0.000	0.256	-0.256	3.825	0.000	0.000	0.000%	3.825	38.250%	-0.256	-4.267%	0.256	12.864%
4/1/2021	0.000	0.000	3.842	0.000	0.208	-0.208	3.842	0.000	0.000	0.000%	3.842	38.420%	-0.208	-3.467%	0.208	10.452%
4/2/2021	0.000	0.000	3.977	0.000	0.244	-0.244	3.977	0.000	0.000	0.000%	3.977	39.770%	-0.244	-4.067%	0.244	12.261%
4/3/2021	0.000	0.000	3.773	0.000	0.206	-0.206	3.773	0.000	0.000	0.000%	3.773	37.730%	-0.206	-3.433%	0.206	10.352%
4/4/2021	0.000	0.000	3.670	0.000	0.207	-0.207	3.670	0.000	0.000	0.000%	3.670	36.700%	-0.207	-3.450%	0.207	10.402%
4/5/2021	0.000	0.000	3.853	0.000	0.253	-0.253	3.853	0.000	0.000	0.000%	3.853	38.530%	-0.253	-4.217%	0.253	12.714%
4/6/2021	0.000	0.000	4.020	0.000	0.250	-0.250	4.020	0.000	0.000	0.000%	4.020	40.200%	-0.250	-4.167%	0.250	12.563%
4/7/2021	0.000	0.000	4.027	0.000	0.206	-0.206	4.027	0.000	0.000	0.000%	4.027	40.270%	-0.206	-3.433%	0.206	10.352%
4/8/2021	0.000	0.000	3.945	0.000	0.259	-0.259	3.945	0.000	0.000	0.000%	3.945	39.450%	-0.259	-4.317%	0.259	13.015%
4/9/2021	0.000	0.000	4.046	0.000	0.254	-0.254	4.046	0.000	0.000	0.000%	4.046	40.460%	-0.254	-4.233%	0.254	12.764%
4/10/2021	0.000	0.000	3.972	0.000	0.254	-0.254	3.972	0.000	0.000	0.000%	3.972	39.720%	-0.254	-4.233%	0.254	12.764%
4/11/2021	0.000	0.000	3.867	0.000	0.252	-0.252	3.867	0.000	0.000	0.000%	3.867	38.670%	-0.252	-4.200%	0.252	12.663%
4/12/2021	0.000	0.000	4.031	0.000	0.261	-0.261	4.031	0.000	0.000	0.000%	4.031	40.310%	-0.261	-4.350%	0.261	13.116%
4/13/2021	0.000	0.000	4.247	0.000	0.229	-0.229	4.247	0.000	0.000	0.000%	4.247	42.470%	-0.229	-3.817%	0.229	11.508%
4/14/2021	0.000	0.000	2.585	0.000	0.259	-0.259	2.585	0.000	0.000	0.000%	2.585	25.850%	-0.259	-4.317%	0.259	13.015%
4/15/2021	0.000	0.000	0.606	0.000	0.241	-0.241	0.606	0.000	0.000	0.000%	0.606	6.060%	-0.241	-4.017%	0.241	12.111%
4/16/2021	0.000	0.000	0.593	0.000	0.268	-0.268	0.593	0.000	0.000	0.000%	0.593	5.930%	-0.268	-4.467%	0.268	13.467%
4/17/2021	0.000	0.000	1.157	0.000	0.257	-0.257	1.157	0.000	0.000	0.000%	1.157	11.570%	-0.257	-4.283%	0.257	12.915%
4/18/2021	0.000	0.000	1.427	0.000	0.263	-0.263	1.427	0.000	0.000	0.000%	1.427	14.270%	-0.263	-4.383%	0.263	13.216%
4/19/2021	0.000	0.000	1.489	0.000	0.258	-0.258	1.489	0.000	0.000	0.000%	1.489	14.890%	-0.258	-4.300%	0.258	12.965%
4/20/2021	0.000	0.000	1.125	0.000	0.260	-0.260	1.125	0.000	0.000	0.000%	1.125	11.250%	-0.260	-4.333%	0.260	13.065%
4/21/2021	0.000	0.000	0.783	0.000	0.258	-0.258	0.783	0.000	0.000	0.000%	0.783	7.830%	-0.258	-4.300%	0.258	12.965%
4/22/2021	0.000	0.000	0.555	0.000	0.257	-0.257	0.555	0.000	0.000	0.000%	0.555	5.550%	-0.257	-4.283%	0.257	12.915%
4/23/2021	0.000	0.000	2.335	0.000	0.252	-0.252	2.335	0.000	0.000	0.000%	2.335	23.350%	-0.252	-4.200%	0.252	12.663%
4/24/2021	0.000	0.000	3.736	0.000	0.244	-0.244	3.736	0.000	0.000	0.000%	3.736	37.360%	-0.244	-4.067%	0.244	12.261%
4/25/2021	0.000	0.000	3.658	0.000	0.218	-0.218	3.658	0.000	0.000	0.000%	3.658	36.580%	-0.218	-3.633%	0.218	10.955%
4/26/2021	0.000	0.000	3.397	0.000	0.274	-0.274	3.397	0.000	0.000	0.000%	3.397	33.970%	-0.274	-4.567%	0.274	13.769%
4/27/2021	0.000	0.000	4.046	0.000	0.27	-0.270	4.046	0.000	0.000	0.000%	4.046	40.460%	-0.270	-4.500%	0.270	13.568%
4/28/2021	0.000	0.000	3.984	0.000	0.391	-0.391	3.984	0.000	0.000	0.000%	3.984	39.840%	-0.391	-6.517%	0.391	19.648%
4/29/2021	0.000	0.000	3.966	0.000	0.387	-0.387	3.966	0.000	0.000	0.000%	3.966	39.660%	-0.387	-6.450%	0.387	19.447%
4/30/2021	0.000	0.000	4.331	0.000	0.314	-0.314	4.331	0.000	0.000	0.000%	4.331	43.310%	-0.314	-5.233%	0.314	15.779%
5/1/2021	0.000	0.000	3.925	0.000	0.279	-0.279	3.925	0.000	0.000	0.000%	3.925	39.250%	-0.279	-4.650%	0.279	14.020%
5/2/2021	0.000	0.000	3.697	0.000	0.281	-0.281	3.697	0.000	0.000	0.000%	3.697	36.970%	-0.281	-4.683%	0.281	14.121%
5/3/2021	0.000	0.000	3.846	0.000	0.260	-0.260	3.846	0.000	0.000	0.000%	3.846	38.460%	-0.260	-4.333%	0.260	13.065%
5/4/2021	0.000	0.000	3.980	0.000	0.247	-0.247	3.980	0.000	0.000	0.000%	3.980	39.800%	-0.247	-4.117%	0.247	12.412%
5/5/2021	0.000	0.000	3.882	0.000	0.275	-0.275	3.882	0.000	0.000	0.000%	3.882	38.820%	-0.275	-4.583%	0.275	13.819%
5/6/2021	0.000	0.000	3.637	0.000	0.282	-0.282	3.637	0.000	0.000	0.						

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		Yadkin		Catawba		Grandfathered IBT from Second Creek - South Yadkin River Basin					
	South Yadkin	Yadkin	Yadkin	Catawba	Kannapolis	Finished water sales to Landis	Total South Yadkin IBT ¹	Total Yadkin IBT	Total Catawba IBT	Catawba	% of Permitted MDD Transfer	Yadkin	% 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 Interconnections with Concord	Kannapolis	Finished water sales to Landis	Total South Yadkin IBT ¹	Total Yadkin IBT	Total Catawba IBT	Catawba	% of Permitted MDD Transfer	Yadkin	% of Permitted MDD Transfer	IBT from Yadkin to South Yadkin River Basin	% of Permitted MDD Transfer			
5/9/2021	0.000	0.000	3.346	0.000	0.240	-0.240	3.346	0.000	0.000	0.000	0.000%	3.346	33.460%	-0.240	-4.000%	0.240	12.060%	
5/10/2021	0.000	0.000	3.397	0.000	0.255	-0.255	3.397	0.000	0.000	0.000	0.000%	3.397	33.970%	-0.255	-4.250%	0.255	12.814%	
5/11/2021	0.000	0.000	2.889	0.000	0.253	-0.253	2.889	0.000	0.000	0.000	0.000%	2.889	28.890%	-0.253	-4.217%	0.253	12.714%	
5/12/2021	0.000	0.000	2.975	0.000	0.295	-0.295	2.975	0.000	0.000	0.000	0.000%	2.975	29.750%	-0.295	-4.917%	0.295	14.824%	
5/13/2021	0.000	0.000	2.834	0.000	0.213	-0.213	2.834	0.000	0.000	0.000	0.000%	2.834	28.340%	-0.213	-3.550%	0.213	10.704%	
5/14/2021	0.000	0.000	2.744	0.000	0.296	-0.296	2.744	0.000	0.000	0.000	0.000%	2.744	27.440%	-0.296	-4.933%	0.296	14.874%	
5/15/2021	0.000	0.000	2.417	0.000	0.233	-0.233	2.417	0.000	0.000	0.000	0.000%	2.417	24.170%	-0.233	-3.883%	0.233	11.709%	
5/16/2021	0.000	0.000	2.451	0.000	0.280	-0.280	2.451	0.000	0.000	0.000	0.000%	2.451	24.510%	-0.280	-4.667%	0.280	14.070%	
5/17/2021	0.000	0.000	2.669	0.000	0.343	-0.343	2.669	0.000	0.000	0.000	0.000%	2.669	26.690%	-0.343	-5.717%	0.343	17.236%	
5/18/2021	0.000	0.000	3.697	0.000	0.349	-0.349	3.697	0.000	0.000	0.000	0.000%	3.697	36.970%	-0.349	-5.817%	0.349	17.538%	
5/19/2021	0.000	0.000	3.200	0.000	0.275	-0.275	3.200	0.000	0.000	0.000	0.000%	3.200	32.000%	-0.275	-4.583%	0.275	13.819%	
5/20/2021	0.000	0.000	3.335	0.000	0.275	-0.275	3.335	0.000	0.000	0.000	0.000%	3.335	33.350%	-0.275	-4.583%	0.275	13.819%	
5/21/2021	0.000	0.000	2.604	0.000	0.268	-0.268	2.604	0.000	0.000	0.000	0.000%	2.604	26.040%	-0.268	-4.467%	0.268	13.467%	
5/22/2021	0.000	0.000	2.723	0.000	0.316	-0.316	2.723	0.000	0.000	0.000	0.000%	2.723	27.230%	-0.316	-5.267%	0.316	15.879%	
5/23/2021	0.000	0.000	2.969	0.000	0.281	-0.281	2.969	0.000	0.000	0.000	0.000%	2.969	29.690%	-0.281	-4.683%	0.281	14.121%	
5/24/2021	0.000	0.000	3.138	0.000	0.320	-0.320	3.138	0.000	0.000	0.000	0.000%	3.138	31.380%	-0.320	-5.333%	0.320	16.080%	
5/25/2021	0.000	0.000	3.694	0.000	0.390	-0.390	3.694	0.000	0.000	0.000	0.000%	3.694	36.940%	-0.390	-6.500%	0.390	19.598%	
5/26/2021	0.000	0.000	3.343	0.000	0.354	-0.354	3.343	0.000	0.000	0.000	0.000%	3.343	33.430%	-0.354	-5.900%	0.354	17.789%	
5/27/2021	0.000	0.000	3.549	0.000	0.321	-0.321	3.549	0.000	0.000	0.000	0.000%	3.549	35.490%	-0.321	-5.350%	0.321	16.131%	
5/28/2021	0.000	0.000	3.430	0.000	0.301	-0.301	3.430	0.000	0.000	0.000	0.000%	3.430	34.300%	-0.301	-5.017%	0.301	15.126%	
5/29/2021	0.000	0.000	3.001	0.000	0.259	-0.259	3.001	0.000	0.000	0.000	0.000%	3.001	30.010%	-0.259	-4.317%	0.259	13.015%	
5/30/2021	0.000	0.000	2.379	0.000	0.218	-0.218	2.379	0.000	0.000	0.000	0.000%	2.379	23.790%	-0.218	-3.633%	0.218	10.955%	
5/31/2021	0.000	0.000	2.926	0.000	0.310	-0.310	2.926	0.000	0.000	0.000	0.000%	2.926	29.260%	-0.310	-5.167%	0.310	15.578%	
6/1/2021	0.000	0.000	3.381	0.000	0.265	-0.265	3.381	0.000	0.000	0.000	0.000%	3.381	33.810%	-0.265	-4.417%	0.191	9.598%	
6/2/2021	0.000	0.000	3.215	0.000	0.274	-0.274	3.215	0.000	0.000	0.000	0.000%	3.215	32.150%	-0.274	-4.567%	0.178	8.945%	
6/3/2021	0.000	0.000	3.037	0.000	0.302	-0.302	3.037	0.000	0.000	0.000	0.000%	3.037	30.370%	-0.302	-5.033%	0.162	8.141%	
6/4/2021	0.000	0.000	2.281	0.000	0.265	-0.265	2.281	0.000	0.000	0.000	0.000%	2.281	22.810%	-0.233	-3.883%	0.233	11.709%	
6/5/2021	0.000	0.000	3.027	0.000	0.268	-0.268	3.027	0.000	0.000	0.000	0.000%	3.027	30.270%	-0.268	-4.467%	0.208	10.452%	
6/6/2021	0.000	0.000	2.654	0.000	0.259	-0.259	2.654	0.000	0.000	0.000	0.000%	2.654	26.540%	-0.259	-4.317%	0.215	10.804%	
6/7/2021	0.000	0.000	2.566	0.000	0.306	-0.306	2.566	0.000	0.000	0.000	0.000%	2.566	25.660%	-0.306	-5.100%	0.229	11.508%	
6/8/2021	0.000	0.000	2.500	0.000	0.260	-0.260	2.500	0.000	0.000	0.000	0.000%	2.500	25.000%	-0.260	-4.333%	0.251	12.613%	
6/9/2021	0.000	0.000	2.785	0.000	0.270	-0.270	2.785	0.000	0.000	0.000	0.000%	2.785	27.850%	-0.270	-4.500%	0.277	13.920%	
6/10/2021	0.000	0.000	3.057	0.000	0.276	-0.276	3.057	0.000	0.000	0.000	0.000%	3.057	30.570%	-0.276	-4.600%	0.294	14.774%	
6/11/2021	0.000	0.000	3.557	0.000	0.255	-0.255	3.557	0.000	0.000	0.000	0.000%	3.557	35.570%	-0.255	-4.250%	0.181	9.095%	
6/12/2021	0.000	0.000	3.400	0.000	0.253	-0.253	3.400	0.000	0.000	0.000	0.000%	3.400	34.000%	-0.253	-4.217%	0.189	9.497%	
6/13/2021	0.000	0.000	2.947	0.000	0.249	-0.249	2.947	0.000	0.000	0.000	0.000%	2.947	29.470%	-0.249	-4.150%	0.218	10.955%	
6/14/2021	0.000	0.000	3.117	0.000	0.290	-0.290	3.117	0.000	0.000	0.000	0.000%	3.117	31.170%	-0.290	-4.833%	0.248	12.462%	
6/15/2021	0.000	0.000	3.584	0.000	0.287	-0.287	3.584	0.000	0.000	0.000	0.000%	3.584	35.840%	-0.287	-4.783%	0.157	7.889%	
6/16/2021	0.000	0.000	3.287	0.000	0.261	-0.261	3.287	0.000	0.000	0.000	0.000%	3.287	32.870%	-0.261	-4.350%	0.180	9.045%	
6/17/2021	0.000	0.000	3.500	0.000	0.312	-0.312	3.500	0.000	0.000	0.000	0.000%	3.500	35.000%	-0.312	-5.200%	0.274	13.789%	
6/18/2021	0.000	0.000	3.355	0.000	0.260	-0.260	3.355	0.000	0.000	0.000	0.000%	3.355	33.550%	-0.260	-4.333%	0.288	14.472%	
6/19/2021	0.000	0.000	3.247	0.000	0.136	-0.136	3.247	0.000	0.000	0.000	0.000%	3.247	32.470%	-0.136	-2.267%	0.138	6.935%	
6/20/2021	0.000	0.000	2.751	0.000	0.187	-0.187	2.751	0.000	0.000	0.000	0.000%	2.751	27.510%	-0.187	-3.117%	0.206	10.352%	
6/21/2021	0.000	0.000	2.912	0.000	0.310	-0.310	2.912	0.000	0.000	0.000	0.000%	2.912	29.120%	-0.310	-5.167%	0.325	16.332%	
6/22/2021	0.000	0.000	2.790	0.000	0.212	-0.212	2.790	0.000	0.000	0.000	0.000%	2.790	27.900%	-0.212	-3.533%	0.324	16.281%	
6/23/2021	0.000	0.000	2.772	0.000	0.301	-0.301	2.772	0.000	0.000	0.000	0.000%	2.772	27.720%	-0.301	-5.017%	0.225	11.307%	
6/24/2021	0.000	0.000	2.825	0.000	0.265	-0.265	2.825	0.000	0.000	0.000	0.000%	2.825	28.250%	-0.265	-4.417%	0.173	8.693%	
6/25/2021	0.000	0.000	2.927	0.000	0.135	-0.135	2.927	0.000	0.000	0.000	0.000%	2.927	29.270%	-0.135	-2.250%	0.257	12.915%	
6/26/2021	0.000	0.000	2.919	0.000	0.265	-0.265	2.919	0.000	0.000	0.000	0.000%	2.919	29.190%	-0.265	-4.417%	0.251	12.613%	
6/27/2021	0.000	0.000	3.082	0.000	0.244	-0.244	3.082	0.000	0.000	0.000	0.000%	3.082	30.820%	-0.244	-4.067%	0.193	9.698%	
6/28/2021	0.000	0.000	3.422	0.000	0.306	-0.306	3.422	0.000	0.000	0.000	0.000%	3.422	34.220%	-0.306	-5.100%	0.251	12.613%	
6/29/2021	0.000	0.000	3.464	0.000	0.272	-0.272	3.464	0.000	0.000	0.000	0.000%	3.464	34.640%	-0.272	-4.533%	0.239	12.010%	
6/30/2021	0.000	0.000	3.091	0.000	0.333	-0.333	3.091	0.000	0.000	0.000	0.000%	3.091	30.910%	-0.333	-5.550%	0.295	14.824%	
7/1/2021	0.000	0.000	3.020	0.000	0.233	-0.233	3.020	0.000	0.000	0.000	0.000%	3.020	30.200%	-0.233	-3.883%	0.291	14.623%	
7/2/2021	0.000	0.000	2.507	0.000	0.248	-0.248	2.507	0.000	0.000	0.000	0.000%	2.507	25.070%	-0.248	-4.133%	0.291	14.623%	
7/3/2021	0.000	0.000	1.346	0.000	0.203	-0.203	1.346	0.000	0.000	0.000	0.000%	1.346	13.460%	-0.203	-3.383%	0.442		

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		NOTE: All Wastewater discharge is to the Rocky River from RRWWTP, excluding water sales to Landis (subtracted from Total South Yadkin IBT).									
	South Yadkin	Yadkin	Yadkin	Catawba	South Yadkin	South 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 Interconnections with Concord	Kannapolis Finished water sales to Landis	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 River Basin	% of Permitted MDD Transfer
7/16/2021	0.000	0.000	2.946	3.500	0.280	-0.280	2.946	3.500	3.500	35.000%	2.946	29.460%	-0.280	-4.667%	0.224	11.256%
7/17/2021	0.000	0.000	3.011	3.500	0.306	-0.306	3.011	3.500	3.500	35.000%	3.011	30.110%	-0.306	-5.100%	0.220	11.055%
7/18/2021	0.000	0.000	2.889	3.500	0.280	-0.280	2.889	3.500	3.500	35.000%	2.889	28.890%	-0.280	-4.667%	0.230	11.558%
7/19/2021	0.000	0.000	2.807	3.500	0.252	-0.252	2.807	3.500	3.500	35.000%	2.807	28.070%	-0.252	-4.200%	0.220	11.055%
7/20/2021	0.000	0.000	2.720	3.500	0.251	-0.251	2.720	3.500	3.500	35.000%	2.720	27.200%	-0.251	-4.183%	0.215	10.804%
7/21/2021	0.000	0.000	2.886	3.500	0.155	-0.155	2.886	3.500	3.500	35.000%	2.886	28.860%	-0.155	-2.583%	0.225	11.307%
7/22/2021	0.000	0.000	2.926	3.500	0.252	-0.252	2.926	3.500	3.500	35.000%	2.926	29.260%	-0.252	-4.200%	0.223	11.206%
7/23/2021	0.000	0.000	3.198	3.500	0.252	-0.252	3.198	3.500	3.500	35.000%	3.198	31.980%	-0.252	-4.200%	0.235	11.809%
7/24/2021	0.000	0.000	2.894	3.500	0.262	-0.262	2.894	3.500	3.500	35.000%	2.894	28.940%	-0.262	-4.367%	0.250	12.563%
7/25/2021	0.000	0.000	3.004	3.500	0.295	-0.295	3.004	3.500	3.500	35.000%	3.004	30.040%	-0.295	-4.917%	0.243	12.211%
7/26/2021	0.000	0.000	3.092	3.500	0.213	-0.213	3.092	3.500	3.500	35.000%	3.092	30.920%	-0.213	-3.550%	0.280	14.070%
7/27/2021	0.000	0.000	2.901	3.500	0.296	-0.296	2.901	3.500	3.500	35.000%	2.901	29.010%	-0.296	-4.933%	0.381	19.146%
7/28/2021	0.000	0.000	2.907	3.500	0.233	-0.233	2.907	3.500	3.500	35.000%	2.907	29.070%	-0.233	-3.883%	0.265	13.317%
7/29/2021	0.000	0.000	3.194	3.500	0.280	-0.280	3.194	3.500	3.500	35.000%	3.194	31.940%	-0.280	-4.667%	0.266	13.367%
7/30/2021	0.000	0.000	3.168	3.500	0.343	-0.343	3.168	3.500	3.500	35.000%	3.168	31.680%	-0.343	-5.717%	0.250	12.563%
7/31/2021	0.000	0.000	3.289	3.500	0.349	-0.349	3.289	3.500	3.500	35.000%	3.289	32.890%	-0.349	-5.817%	0.245	12.312%
8/1/2021	0.000	0.000	3.020	3.500	0.275	-0.275	3.020	3.500	3.500	35.000%	3.020	30.200%	-0.275	-4.583%	0.300	15.075%
8/2/2021	0.000	0.000	2.507	3.500	0.257	-0.257	2.507	3.500	3.500	35.000%	2.507	25.070%	-0.257	-4.283%	0.279	14.020%
8/3/2021	0.000	0.000	1.346	3.500	0.256	-0.256	1.346	3.500	3.500	35.000%	1.346	13.460%	-0.256	-4.267%	0.262	13.166%
8/4/2021	0.000	0.000	2.732	3.500	0.277	-0.277	2.732	3.500	3.500	35.000%	2.732	27.320%	-0.277	-4.617%	0.316	15.879%
8/5/2021	0.000	0.000	2.852	3.500	0.261	-0.261	2.852	3.500	3.500	35.000%	2.852	28.520%	-0.261	-4.350%	0.218	10.955%
8/6/2021	0.000	0.000	2.878	3.500	0.260	-0.260	2.878	3.500	3.500	35.000%	2.878	28.780%	-0.260	-4.333%	0.245	12.312%
8/7/2021	0.000	0.000	3.040	3.500	0.247	-0.247	3.040	3.500	3.500	35.000%	3.040	30.400%	-0.247	-4.117%	0.274	13.769%
8/8/2021	0.000	0.000	2.798	3.500	0.275	-0.275	2.798	3.500	3.500	35.000%	2.798	27.980%	-0.275	-4.583%	0.235	11.809%
8/9/2021	0.000	0.000	2.660	3.500	0.282	-0.282	2.660	3.500	3.500	35.000%	2.660	26.600%	-0.282	-4.700%	0.230	11.558%
8/10/2021	0.000	0.000	3.063	3.500	0.269	-0.269	3.063	3.500	3.500	35.000%	3.063	30.630%	-0.269	-4.483%	0.251	12.613%
8/11/2021	0.000	0.000	3.000	3.500	0.254	-0.254	3.000	3.500	3.500	35.000%	3.000	30.000%	-0.254	-4.233%	0.219	11.005%
8/12/2021	0.000	0.000	3.045	3.500	0.244	-0.244	3.045	3.500	3.500	35.000%	3.045	30.450%	-0.244	-4.067%	0.237	11.910%
8/13/2021	0.000	0.000	2.943	3.500	0.254	-0.254	2.943	3.500	3.500	35.000%	2.943	29.430%	-0.254	-4.233%	0.215	10.804%
8/14/2021	0.000	0.000	3.104	3.500	0.261	-0.261	3.104	3.500	3.500	35.000%	3.104	31.040%	-0.261	-4.350%	0.220	11.055%
8/15/2021	0.000	0.000	3.160	3.500	0.318	-0.318	3.160	3.500	3.500	35.000%	3.160	31.600%	-0.318	-5.300%	0.190	9.548%
8/16/2021	0.000	0.000	2.946	3.500	0.293	-0.293	2.946	3.500	3.500	35.000%	2.946	29.460%	-0.293	-4.883%	0.225	11.307%
8/17/2021	0.000	0.000	3.011	3.500	0.315	-0.315	3.011	3.500	3.500	35.000%	3.011	30.110%	-0.315	-5.250%	0.273	13.719%
8/18/2021	0.000	0.000	2.889	3.500	0.261	-0.261	2.889	3.500	3.500	35.000%	2.889	28.890%	-0.261	-4.350%	0.235	11.809%
8/19/2021	0.000	0.000	2.807	3.500	0.261	-0.261	2.807	3.500	3.500	35.000%	2.807	28.070%	-0.261	-4.350%	0.242	12.161%
8/20/2021	0.000	0.000	2.720	3.500	0.252	-0.252	2.720	3.500	3.500	35.000%	2.720	27.200%	-0.252	-4.200%	0.175	8.794%
8/21/2021	0.000	0.000	2.886	3.500	0.252	-0.252	2.886	3.500	3.500	35.000%	2.886	28.860%	-0.252	-4.200%	0.260	13.065%
8/22/2021	0.000	0.000	2.926	3.500	0.262	-0.262	2.926	3.500	3.500	35.000%	2.926	29.260%	-0.262	-4.367%	0.180	9.045%
8/23/2021	0.000	0.000	3.198	3.500	0.324	-0.324	3.198	3.500	3.500	35.000%	3.198	31.980%	-0.324	-5.400%	0.236	11.859%
8/24/2021	0.000	0.000	2.894	3.500	0.283	-0.283	2.894	3.500	3.500	35.000%	2.894	28.940%	-0.283	-4.717%	0.261	13.116%
8/25/2021	0.000	0.000	3.004	3.500	0.370	-0.370	3.004	3.500	3.500	35.000%	3.004	30.040%	-0.370	-6.167%	0.248	12.462%
8/26/2021	0.000	0.000	3.092	3.500	0.260	-0.260	3.092	3.500	3.500	35.000%	3.092	30.920%	-0.260	-4.333%	0.234	11.759%
8/27/2021	0.000	0.000	2.901	0.000	0.278	-0.278	2.901	0.000	0.000	0.000%	2.901	29.010%	-0.278	-4.833%	0.269	13.518%
8/28/2021	0.000	0.000	2.907	0.000	0.270	-0.270	2.907	0.000	0.000	0.000%	2.907	29.070%	-0.270	-4.500%	0.295	14.824%
8/29/2021	0.000	0.000	3.194	0.000	0.263	-0.263	3.194	0.000	0.000	0.000%	3.194	31.940%	-0.263	-4.383%	0.200	10.050%
8/30/2021	0.000	0.000	3.168	0.000	0.255	-0.255	3.168	0.000	0.000	0.000%	3.168	31.680%	-0.255	-4.250%	0.170	8.543%
8/31/2021	0.000	0.000	3.289	0.000	0.256	-0.256	3.289	0.000	0.000	0.000%	3.289	32.890%	-0.256	-4.267%	0.374	18.794%
9/1/2021	0.000	0.000	2.394	0.000	0.189	-0.189	2.394	0.000	0.000	0.000%	2.394	23.940%	-0.189	-3.150%	0.454	22.814%
9/2/2021	0.000	0.000	2.974	0.000	0.252	-0.252	2.974	0.000	0.000	0.000%	2.974	29.740%	-0.252	-4.200%	0.252	12.663%
9/3/2021	0.000	0.000	2.505	0.000	0.251	-0.251	2.505	0.000	0.000	0.000%	2.505	25.050%	-0.251	-4.183%	0.251	12.613%
9/4/2021	0.000	0.000	2.639	0.000	0.155	-0.155	2.639	0.000	0.000	0.000%	2.639	26.390%	-0.155	-2.583%	0.155	7.789%
9/5/2021	0.000	0.000	2.470	0.000	0.267	-0.267	2.470	0.000	0.000	0.000%	2.470	24.700%	-0.267	-4.450%	0.267	13.417%
9/6/2021	0.000	0.000	2.758	0.000	0.243	-0.243	2.758	0.000	0.000	0.000%	2.758	27.580%	-0.243	-4.050%	0.243	12.211%
9/7/2021	0.000	0.000	2.794	0.000	0.241	-0.241	2.794	0.000	0.000	0.000%	2.794	27.940%	-0.241	-4.017%	0.241	12.111%
9/8/2021	0.000	0.000	2.670	0.000	0.304	-0.304	2.670	0.000	0.000	0.000%	2.670	26.700%	-0.304	-5.067%	0.304	15.276%
9/9/2021	0.000	0.000	2.914	0.000	0.254	-0.254	2.914	0.000	0.000	0.000%	2.914	29.140%	-0.254	-4.233%	0.254	12.764%
9/10/2021	0.000	0.000	2.674	0.000	0.261	-0.261	2.674	0.000	0.000	0.000%	2.674	26.740%	-0.261	-4.350%	0.261	13.116%
9/11/2021	0.000	0.000	2.672	0.000	0.318	-0.318	2.672	0.000	0.000	0.000%	2.672	26.720%	-0.318	-5.300%	0.318	15.980%
9/12/2021	0.000	0.000	3.317	0.000	0.279	-0.279	3.317	0.000	0.000	0.000%	3.317	33.170%	-0.279	-4.650%	0.279	14.020%
9/13/2021	0.000	0.000	3.036	0.000	0.309	-0.309	3.036	0.000	0.000	0.000%	3.036	30.360%	-0.309	-5.150%	0.309	15.528%
9/14/2021	0.000	0.000	3.380	0.000	0.267	-0.267	3.380	0.000	0.000	0.000%	3.380	33.800%	-0.267	-4.450%	0.267	13.417%
9/15/2021	0.000	0.000	2.908	0.000	0.325	-0.325	2.908	0.000	0.000	0.000%	2.908	29.080%	-0.325	-5.417%	0.325	16.322%
9/16/2021	0.000	0.000	2.752	0.000	0.255	-0.255	2.752	0.000	0.000	0.000%	2.752	27.520%	-0.255	-4.250%	0.255	12.814%
9/17/2021	0.000	0.000	2.750	0.000	0.282	-0.282	2.750	0.000	0.000	0.000%	2.750	27.500%	-0.282	-4.367%	0.282	13.166%
9/18/2021	0.000	0.000	2.936	0.000	0.280	-0.280	2.936	0.000	0.000	0.000%	2.936	29.360%	-0.280	-4.667%	0.280	14.070%
9/19/2021	0.000	0.000	2.999	0.000	0.											

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		NOTE: All Wastewater discharge is to the Rocky River from RRWWTP, excluding water sales to Landis (subtracted from Total South Yadkin IBT).											
	South Yadkin	Yadkin	Yadkin	Catawba	South Yadkin	South 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 Interconnections with Concord	Kannapolis Finished water sales to Landis	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 River Basin	% of Permitted MDD Transfer		
9/22/2021	0.000	0.000	2.581	0.000	0.251	-0.251	2.581	0.000	0.000	0.000%	2.581	25.810%	-0.251	-4.183%	0.251	12.613%		
9/23/2021	0.000	0.000	2.620	0.000	0.155	-0.155	2.620	0.000	0.000	0.000%	2.620	26.200%	-0.155	-2.583%	0.155	7.789%		
9/24/2021	0.000	0.000	2.108	0.000	0.252	-0.252	2.108	0.000	0.000	0.000%	2.108	21.080%	-0.252	-4.200%	0.252	12.663%		
9/25/2021	0.000	0.000	2.382	0.000	0.252	-0.252	2.382	0.000	0.000	0.000%	2.382	23.820%	-0.252	-4.200%	0.252	12.663%		
9/26/2021	0.000	0.000	2.559	0.000	0.262	-0.262	2.559	0.000	0.000	0.000%	2.559	25.590%	-0.262	-4.367%	0.262	13.166%		
9/27/2021	0.000	0.000	3.151	0.000	0.324	-0.324	3.151	0.000	0.000	0.000%	3.151	31.510%	-0.324	-5.400%	0.324	16.281%		
9/28/2021	0.000	0.000	3.170	0.000	0.283	-0.283	3.170	0.000	0.000	0.000%	3.170	31.700%	-0.283	-4.717%	0.283	14.221%		
9/29/2021	0.000	0.000	3.137	0.000	0.370	-0.370	3.137	0.000	0.000	0.000%	3.137	31.370%	-0.370	-6.167%	0.370	18.593%		
9/30/2021	0.000	0.000	3.124	0.000	0.356	-0.356	3.124	0.000	0.000	0.000%	3.124	31.240%	-0.356	-5.933%	0.356	17.889%		
10/1/2021	0.000	0.000	2.982	0.000	0.262	-0.262	2.982	0.000	0.000	0.000%	2.982	29.820%	-0.262	-4.367%	0.262	13.166%		
10/2/2021	0.000	0.000	2.826	0.000	0.267	-0.267	2.826	0.000	0.000	0.000%	2.826	28.260%	-0.267	-4.450%	0.267	13.417%		
10/3/2021	0.000	0.000	2.795	0.000	0.261	-0.261	2.795	0.000	0.000	0.000%	2.795	27.950%	-0.261	-4.350%	0.261	13.116%		
10/4/2021	0.000	0.000	2.758	0.000	0.260	-0.260	2.758	0.000	0.000	0.000%	2.758	27.580%	-0.260	-4.333%	0.260	13.065%		
10/5/2021	0.000	0.000	2.970	0.000	0.278	-0.278	2.970	0.000	0.000	0.000%	2.970	29.700%	-0.278	-4.633%	0.278	13.970%		
10/6/2021	0.000	0.000	2.866	0.000	0.270	-0.270	2.866	0.000	0.000	0.000%	2.866	28.660%	-0.270	-4.500%	0.270	13.568%		
10/7/2021	0.000	0.000	2.517	0.000	0.263	-0.263	2.517	0.000	0.000	0.000%	2.517	25.170%	-0.263	-4.383%	0.263	13.216%		
10/8/2021	0.000	0.000	2.559	0.000	0.255	-0.255	2.559	0.000	0.000	0.000%	2.559	25.590%	-0.255	-4.250%	0.255	12.814%		
10/9/2021	0.000	0.000	2.270	0.000	0.256	-0.256	2.270	0.000	0.000	0.000%	2.270	22.700%	-0.256	-4.267%	0.256	12.864%		
10/10/2021	0.000	0.000	2.275	0.000	0.254	-0.254	2.275	0.000	0.000	0.000%	2.275	22.750%	-0.254	-4.233%	0.254	12.764%		
10/11/2021	0.000	0.000	2.800	0.000	0.293	-0.293	2.800	0.000	0.000	0.000%	2.800	28.000%	-0.293	-4.883%	0.293	14.724%		
10/12/2021	0.000	0.000	3.092	0.000	0.253	-0.253	3.092	0.000	0.000	0.000%	3.092	30.920%	-0.253	-4.217%	0.253	12.714%		
10/13/2021	0.000	0.000	3.047	0.000	0.257	-0.257	3.047	0.000	0.000	0.000%	3.047	30.470%	-0.257	-4.283%	0.257	12.915%		
10/14/2021	0.000	0.000	3.230	0.000	0.256	-0.256	3.230	0.000	0.000	0.000%	3.230	32.300%	-0.256	-4.267%	0.256	12.864%		
10/15/2021	0.000	0.000	3.001	0.000	0.277	-0.277	3.001	0.000	0.000	0.000%	3.001	30.010%	-0.277	-4.617%	0.277	13.920%		
10/16/2021	0.000	0.000	2.778	0.000	0.261	-0.261	2.778	0.000	0.000	0.000%	2.778	27.780%	-0.261	-4.350%	0.261	13.116%		
10/17/2021	0.000	0.000	2.680	0.000	0.387	-0.387	2.680	0.000	0.000	0.000%	2.680	26.800%	-0.387	-6.450%	0.387	19.447%		
10/18/2021	0.000	0.000	2.977	0.000	0.296	-0.296	2.977	0.000	0.000	0.000%	2.977	29.770%	-0.296	-4.933%	0.296	14.874%		
10/19/2021	0.000	0.000	3.103	0.000	0.293	-0.293	3.103	0.000	0.000	0.000%	3.103	31.030%	-0.293	-4.883%	0.293	14.724%		
10/20/2021	0.000	0.000	2.811	0.000	0.315	-0.315	2.811	0.000	0.000	0.000%	2.811	28.110%	-0.315	-5.250%	0.315	15.829%		
10/21/2021	0.000	0.000	3.180	0.000	0.261	-0.261	3.180	0.000	0.000	0.000%	3.180	31.800%	-0.261	-4.350%	0.261	13.116%		
10/22/2021	0.000	0.000	2.905	0.000	0.261	-0.261	2.905	0.000	0.000	0.000%	2.905	29.050%	-0.261	-4.350%	0.261	13.116%		
10/23/2021	0.000	0.000	3.005	0.000	0.262	-0.262	3.005	0.000	0.000	0.000%	3.005	30.050%	-0.262	-4.367%	0.262	13.166%		
10/24/2021	0.000	0.000	2.715	0.000	0.264	-0.264	2.715	0.000	0.000	0.000%	2.715	27.150%	-0.264	-4.400%	0.264	13.266%		
10/25/2021	0.000	0.000	3.153	0.000	0.289	-0.289	3.153	0.000	0.000	0.000%	3.153	31.530%	-0.289	-4.817%	0.289	14.523%		
10/26/2021	0.000	0.000	3.063	0.000	0.338	-0.338	3.063	0.000	0.000	0.000%	3.063	30.630%	-0.338	-5.633%	0.338	16.985%		
10/27/2021	0.000	0.000	2.891	0.000	0.241	-0.241	2.891	0.000	0.000	0.000%	2.891	28.910%	-0.241	-4.017%	0.241	12.111%		
10/28/2021	0.000	0.000	3.829	0.000	0.260	-0.260	3.829	0.000	0.000	0.000%	3.829	38.290%	-0.260	-4.333%	0.260	13.065%		
10/29/2021	0.000	0.000	3.412	0.000	0.263	-0.263	3.412	0.000	0.000	0.000%	3.412	34.120%	-0.263	-4.383%	0.263	13.216%		
10/30/2021	0.000	0.000	4.594	0.000	0.254	-0.254	4.594	0.000	0.000	0.000%	4.594	45.940%	-0.254	-4.233%	0.254	12.764%		
10/31/2021	0.000	0.000	4.761	0.000	0.257	-0.257	4.761	0.000	0.000	0.000%	4.761	47.610%	-0.257	-4.283%	0.257	12.915%		
11/1/2021	0.000	0.000	4.993	0.000	0.265	-0.265	4.993	0.000	0.000	0.000%	4.993	49.930%	-0.265	-4.417%	0.265	13.317%		
11/2/2021	0.000	0.000	5.231	0.000	0.264	-0.264	5.231	0.000	0.000	0.000%	5.231	52.310%	-0.264	-4.400%	0.264	13.266%		
11/3/2021	0.000	0.000	5.081	0.000	0.294	-0.294	5.081	0.000	0.000	0.000%	5.081	50.810%	-0.294	-4.900%	0.294	14.774%		
11/4/2021	0.000	0.000	4.902	0.000	0.216	-0.216	4.902	0.000	0.000	0.000%	4.902	49.020%	-0.216	-3.600%	0.216	10.854%		
11/5/2021	0.000	0.000	4.749	0.000	0.267	-0.267	4.749	0.000	0.000	0.000%	4.749	47.490%	-0.267	-4.450%	0.267	13.417%		
11/6/2021	0.000	0.000	4.867	0.000	0.271	-0.271	4.867	0.000	0.000	0.000%	4.867	48.670%	-0.271	-4.517%	0.271	13.618%		
11/7/2021	0.000	0.000	4.916	0.000	0.247	-0.247	4.916	0.000	0.000	0.000%	4.916	49.160%	-0.247	-4.117%	0.247	12.412%		
11/8/2021	0.000	0.000	5.019	0.000	0.346	-0.346	5.019	0.000	0.000	0.000%	5.019	50.190%	-0.346	-5.767%	0.346	17.387%		
11/9/2021	0.000	0.000	4.966	0.000	0.265	-0.265	4.966	0.000	0.000	0.000%	4.966	49.660%	-0.265	-4.417%	0.265	13.317%		
11/10/2021	0.000	0.000	4.543	0.000	0.233	-0.233	4.543	0.000	0.000	0.000%	4.543	45.430%	-0.233	-3.883%	0.233	11.709%		
11/11/2021	0.000	0.000	4.642	0.000	0.259	-0.259	4.642	0.000	0.000	0.000%	4.642	46.420%	-0.259	-4.317%	0.259	13.015%		
11/12/2021	0.000	0.000	4.504	0.000	0.288	-0.288	4.504	0.000	0.000	0.000%	4.504	45.040%	-0.288	-4.800%	0.288	14.472%		
11/13/2021	0.000	0.000	4.155	0.000	0.258	-0.258	4.155	0.000	0.000	0.000%	4.155	41.550%	-0.258	-4.300%	0.258	12.965%		
11/14/2021	0.000	0.000	4.479	0.000	0.355	-0.355	4.479	0.000	0.000	0.000%	4.479	44.790%	-0.355	-5.917%	0.355	17.839%		
11/15/2021	0.000	0.000	4.655	0.000	0.275	-0.275	4.655	0.000	0.000	0.000%	4.655	46.550%	-0.275	-4.583%	0.275	13.819%		
11/16/2021	0.000	0.000	4.097	0.000	0.267	-0.267	4.097	0.000	0.000	0.000%	4.097	40.970%	-0.267	-4.450%	0.267	13.417%		
11/17/2021	0.000	0.000	4.438	0.000	0.243	-0.243	4.438	0.000	0.000	0.000%	4.438	44.380%	-0.243	-4.050%	0.243	12.211%		
11/18/2021	0.000	0.000	4.661	0.000	0.241	-0.241	4.661	0.000	0.000	0.000%	4.661	46.610%	-0.241	-4.017%	0.241	12.111%		
11/19/2021	0.000	0.000	4.721	0.000	0.259	-0.259	4.721	0.000	0.000	0.000%	4.721	47.210%	-0.259	-4.317%	0.259	13.015%		
11/20/2021	0.000	0.000	4.621	0.000	0.300	-0.300	4.621	0.000	0.000	0.000%	4.621	46.210%	-0.300	-5.000%	0.300	15.075%		
11/21/2021	0.000	0.000	4.476	0.000	0.258	-0.258	4.476	0.000	0.000	0.000%	4.476	44.760%	-0.258	-4.300%	0.258	12.965%		
11/22/2021	0.000	0.000	4.407	0.000	0.260	-0.260	4.407	0.000	0.000	0.000%	4.407	44.070%	-0.260	-4.333%	0.260	13.065%		
11/23/2021	0.000	0.000	4.822	0.000	0.258	-0.258	4.822	0.000	0.000	0.000%	4.822	48.220%	-0.258	-4.300%	0.258	12.965%		
11/24/2021	0.000	0.000	4.287	0.000	0.288	-0.288	4.287	0.000	0.000	0.000%	4.287	42.870%	-0.288	-4.467%	0.288	13.487%		
11/25/2021	0.000	0.000	4.660	0.000	0.226	-0.226	4.660	0.000	0.000	0.000%	4.660	46.600%	-0.226	-3.767%	0.226	11.357%		
11/26/2021	0.000	0.000	3.7															

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		NOTE: All Wastewater discharge is to the Rocky River from RRWWTP, excluding water sales to Landis (subtracted from Total South Yadkin IBT).												
	South Yadkin	Yadkin	Yadkin	Yadkin	Catawba	South Yadkin	South Yadkin	Yadkin	Catawba										
DATE	Raw Water to Kannapolis Lake from Second Creek	Salisbury Finished water Interconnection with Kannapolis	Finished water Interconnection with Concord	Albemarle Finished water Interconnection with Concord	Charlotte Water Finished water Interconnections with Concord	Kannapolis water sales to Landis	Finished water sales to Landis	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 River Basin	% of Permitted MDD Transfer	
11/29/2021	0.000	0.000	4.147	0.000	0.000	0.265	-0.265	4.147	0.000	0.000	0.000	0.000%	4.147	41.470%	-0.265	-4.417%	0.265	13.317%	
11/30/2021	0.000	0.000	4.508	0.000	0.000	0.261	-0.261	4.508	0.000	0.000	0.000	0.000%	4.508	45.080%	-0.261	-4.350%	0.261	13.116%	
12/1/2021	0.000	0.000	4.155	0.000	0.000	0.275	-0.275	4.155	0.000	0.000	0.000	0.000%	4.155	41.550%	-0.275	-4.583%	0.275	13.819%	
12/2/2021	0.000	0.000	4.389	0.000	0.000	0.263	-0.263	4.389	0.000	0.000	0.000	0.000%	4.389	43.890%	-0.263	-4.383%	0.263	13.216%	
12/3/2021	0.000	0.000	4.225	0.000	0.000	0.266	-0.266	4.225	0.000	0.000	0.000	0.000%	4.225	42.250%	-0.266	-4.433%	0.266	13.367%	
12/4/2021	0.000	0.000	4.123	0.000	0.000	0.246	-0.246	4.123	0.000	0.000	0.000	0.000%	4.123	41.230%	-0.246	-4.100%	0.246	12.362%	
12/5/2021	0.000	0.000	4.586	0.000	0.000	0.267	-0.267	4.586	0.000	0.000	0.000	0.000%	4.586	45.860%	-0.267	-4.450%	0.267	13.417%	
12/6/2021	0.000	0.000	4.380	0.000	0.000	0.262	-0.262	4.380	0.000	0.000	0.000	0.000%	4.380	43.800%	-0.262	-4.367%	0.262	13.166%	
12/7/2021	0.000	0.000	4.682	0.000	0.000	0.263	-0.263	4.682	0.000	0.000	0.000	0.000%	4.682	46.820%	-0.263	-4.383%	0.263	13.216%	
12/8/2021	0.000	0.000	4.610	0.000	0.000	0.266	-0.266	4.610	0.000	0.000	0.000	0.000%	4.610	46.100%	-0.266	-4.433%	0.266	13.367%	
12/9/2021	0.000	0.000	4.154	0.000	0.000	0.262	-0.262	4.154	0.000	0.000	0.000	0.000%	4.154	41.540%	-0.262	-4.367%	0.262	13.166%	
12/10/2021	0.000	0.000	4.043	0.000	0.000	0.269	-0.269	4.043	0.000	0.000	0.000	0.000%	4.043	40.430%	-0.269	-4.483%	0.269	13.518%	
12/11/2021	0.000	0.000	3.884	0.000	0.000	0.254	-0.254	3.884	0.000	0.000	0.000	0.000%	3.884	38.840%	-0.254	-4.233%	0.254	12.764%	
12/12/2021	0.000	0.000	3.822	0.000	0.000	0.221	-0.221	3.822	0.000	0.000	0.000	0.000%	3.822	38.220%	-0.221	-3.683%	0.221	11.106%	
12/13/2021	0.000	0.000	4.068	0.000	0.000	0.318	-0.318	4.068	0.000	0.000	0.000	0.000%	4.068	40.680%	-0.318	-5.300%	0.318	15.980%	
12/14/2021	0.000	0.000	4.216	0.000	0.000	0.262	-0.262	4.216	0.000	0.000	0.000	0.000%	4.216	42.160%	-0.262	-4.367%	0.262	13.166%	
12/15/2021	0.000	0.000	4.357	0.000	0.000	0.267	-0.267	4.357	0.000	0.000	0.000	0.000%	4.357	43.570%	-0.267	-4.450%	0.267	13.417%	
12/16/2021	0.000	0.000	4.212	0.000	0.000	0.263	-0.263	4.212	0.000	0.000	0.000	0.000%	4.212	42.120%	-0.263	-4.383%	0.263	13.216%	
12/17/2021	0.000	0.000	4.078	0.000	0.000	0.261	-0.261	4.078	0.000	0.000	0.000	0.000%	4.078	40.780%	-0.261	-4.350%	0.261	13.116%	
12/18/2021	0.000	0.000	3.912	0.000	0.000	0.251	-0.251	3.912	0.000	0.000	0.000	0.000%	3.912	39.120%	-0.251	-4.183%	0.251	12.613%	
12/19/2021	0.000	0.000	3.639	0.000	0.000	0.220	-0.220	3.639	0.000	0.000	0.000	0.000%	3.639	36.390%	-0.220	-3.667%	0.220	11.055%	
12/20/2021	0.000	0.000	4.109	0.000	0.000	0.283	-0.283	4.109	0.000	0.000	0.000	0.000%	4.109	41.090%	-0.283	-4.717%	0.283	14.221%	
12/21/2021	0.000	0.000	4.008	0.000	0.000	0.239	-0.239	4.008	0.000	0.000	0.000	0.000%	4.008	40.080%	-0.239	-3.983%	0.239	12.010%	
12/22/2021	0.000	0.000	3.628	0.000	0.000	0.262	-0.262	3.628	0.000	0.000	0.000	0.000%	3.628	36.280%	-0.262	-4.367%	0.262	13.166%	
12/23/2021	0.000	0.000	3.730	0.000	0.000	0.255	-0.255	3.730	0.000	0.000	0.000	0.000%	3.730	37.300%	-0.255	-4.250%	0.255	12.814%	
12/24/2021	0.000	0.000	4.649	0.000	0.000	0.267	-0.267	4.649	0.000	0.000	0.000	0.000%	4.649	46.490%	-0.267	-4.450%	0.267	13.417%	
12/25/2021	0.000	0.000	3.785	0.000	0.000	0.254	-0.254	3.785	0.000	0.000	0.000	0.000%	3.785	37.850%	-0.254	-4.233%	0.254	12.764%	
12/26/2021	0.000	0.000	3.832	0.000	0.000	0.244	-0.244	3.832	0.000	0.000	0.000	0.000%	3.832	38.320%	-0.244	-4.067%	0.244	12.261%	
12/27/2021	0.000	0.000	3.859	0.000	0.000	0.261	-0.261	3.859	0.000	0.000	0.000	0.000%	3.859	38.590%	-0.261	-4.350%	0.261	13.116%	
12/28/2021	0.000	0.000	3.941	0.000	0.000	0.261	-0.261	3.941	0.000	0.000	0.000	0.000%	3.941	39.410%	-0.261	-4.350%	0.261	13.116%	
12/29/2021	0.000	0.000	3.931	0.000	0.000	0.257	-0.257	3.931	0.000	0.000	0.000	0.000%	3.931	39.310%	-0.257	-4.283%	0.257	12.915%	
12/30/2021	0.000	0.000	4.071	0.000	0.000	0.281	-0.281	4.071	0.000	0.000	0.000	0.000%	4.071	40.710%	-0.281	-4.683%	0.281	14.121%	
12/31/2021	0.000	0.000	4.052	0.000	0.000	0.240	-0.240	4.052	0.000	0.000	0.000	0.000%	4.052	40.520%	-0.240	-4.000%	0.240	12.060%	
AVG 2021	0.000	0.001	3.425	0.479	0.000	0.257	0.208	3.420	0.479	0.000	0.479	4.795%	3.420	34.198%	-0.257	-4.288%	0.254	12.768%	
MAX 2021	0.000	0.302	5.231	3.500	0.000	0.391	0.449	5.231	3.500	0.000	3.500	35.000%	5.231	52.310%	-0.101	-1.683%	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