

NEUSE RIVER COMPLIANCE ASSOCIATION®
Post Office Box 1410
Clayton, North Carolina 27528 - 1410

March 25, 2023

Mr. Richard Rogers, Director
N. C. DEQ - Division of Water Resources
1617 Mail Service Center
Raleigh, North Carolina 27699-1617

Re: NPDES Permit No. NCC000001
Annual Report for 2021

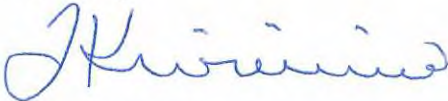
Dear Mr. Rodgers:

The Neuse River Compliance Association is pleased to submit its 2022 annual report as required in the above referenced permit. As included in the attached report, the co-permittee members delivered a total of 456,385 pounds of total nitrogen to the Neuse Estuary during calendar year 2022, approximately 38% of the permit limit of 1,214,838 pounds for 2022.

We are very proud of the continued accomplishments of the Association and the efforts made by our members to control nitrogen loading to the Neuse River Estuary.

We hope that the enclosed report provides the detailed information that the Division has requested. If you have any questions, or if you need any further information, please contact our Executive Director, Haywood M. Phthisic, III, at 919.796.8049.

Sincerely,



John Kiviniemi
Chair

cc: Haywood M. Phthisic, III
Board Member

Enclosures: Annual Report

NEUSE RIVER COMPLIANCE ASSOCIATION (NRCA)

2022 ANNUAL REPORT

NPDES PERMIT NCC000001

(i). Co-Permittee Members of the NRCA for Calendar Year 2022

Town of Apex -	NPDES Permit # NC0064050
Town of Kenly -	NPDES Permit # NC0064891
Town of Benson -	NPDES Permit # NC0020389
City of Kinston -	NPDES Permit # NC0024236
Town of Cary	
North Plant -	NPDES Permit # NC0048879
South Plant -	NPDES Permit # NC0065102
City of Raleigh	
Neuse WWTP -	NPDES Permit # NC0029033
Smith Creek WWTP -	NPDES Permit # NC0030759
Little Creek WWTP -	NPDES Permit # NC0079316
Johnston County -	NPDES Permit # NC0030716
City of Goldsboro -	NPDES Permit # NC0023949
Town of Clayton -	NPDES Permit # NC0025453
City of New Bern -	NPDES Permit # NC0025348
Contentnea MSD -	NPDES Permit # NC0032077
City of Wilson -	NPDES Permit # NC0023906
Town of Farmville -	NPDES Permit # NC0029572
Town of LaGrange -	NPDES Permit # NC0021644
MCAS Cherry Point -	NPDES Permit # NC0003816
Dupont-Kinston, Inc. -	NPDES Permit # NC0003760
Aqua N.C., Neuse Colony -	NPDES Permit # NC0064564
Duke Energy Progress -	NPDES Permit # NC0003417
South Granville W&S Authority -	NPDES Permit # NC0026824
City of Havelock -	NPDES Permit # NC0021253
CWS Systems, Inc. -	NPDES Permit # NC0033111
Craven County -	NPDES Permit # NC0089460
Town of Hillsborough	NPDES Permit # NC0026433
City of Durham	NPDES Permit # NC0023841
Town of Snow Hill	NPDES Permit # NC0020842

(ii). Summary of revisions in the NRCA 's membership for 2022:

No revisions in the membership for 2022.

(iii). Summary of all purchases, sales, trades, leases, and other transactions affecting the TN allocations of the Association or its Co-Permittee members in 2022:

There were temporary total nitrogen allocations trades between NRCA members in 2022.

Short Term Lease Agreements -

* **Craven County** leased 4,000 lbs. of estuary nitrogen for their facility, NPDES # NC0089460, for 2022. Craven County leased from Contentnea MSD of Grifton, N. C. Craven County owns a water plant that the source ground water contains nitrogen. Craven County has no permanent nitrogen allocation.

* **CWS Systems, Inc.** leased 3,500 estuary pounds of nitrogen from Contentnea MSD for 2022 for its facility at Fairfield Harbor, NPDES # NC0033111.

* **Neuse Colony (Aqua, N. C.)** leased 1,100 estuary pounds from Covation BioMaterials, LLC. for 2022 for its facility, NPDES # NC0064564. This facility serves a large residential development that is experiencing above average growth.

Permanent Transfer Agreements in 2022 -

* No permanent transfers occurred in 2022.

(iv). Assessments by NRCA –

No assessments occurred in 2022.

A complete list of all sales and leased in the NRCA from 2003 through 2022 is included with this report.

NRCA Nitrogen Transactions (Sales/Leases)

Date: 3/20/2023

Year	Type of Nitrogen Transaction	Seller/Leasor	Buyer/Leasee	Estuary Lbs. of Nitrogen *	Cost per Pound
2022	Lease	Contentnea MSD	CWS Systems	3,500	5.00
	Lease	Covation Biomaterials, LLC	Aqua, N. C. (Neuse Colony)	1,100	7.00
	Lease	Contentnea MSD	Craven County	4,000	\$ 6.00
2021	Lease	Dow Biosciences	Craven County	5,000	\$ 6.00
	Lease	Contentnea MSD	CWS Systems	9,500	5.00
	Lease	Dow Biosciences	Aqua, N. C. (Neuse Colony)	700	6.00
	Lease	Town of Benson	Town of Kenly	500	3.00
	Sale	International Paper	City of Raleigh	13,000	500.00
	Sale	Phillips Plating	Johnston County	1,000	500.00
2020	Lease	Dow Industrial Bioscience, LLC	Aqua, N.C.	700	\$ 5.00
	Lease	Dow Industrial Bioscience, LLC	Craven County	3,000	5.00
	Lease	Contentnea MSD	Carolina Water Service, Inc.	7,100	5.00
	Lease	Town of Benson	Town of Kenly	2,600	4.00
	Sale	International Paper, Inc.	Town of Clayton	15,000	500.00
	Sale	RS-Flat Swamp, LLC	Town of Clayton	15,908	500.00
2019	Lease	Dow Industrial Bioscience, LLC	Aqua, N.C.	3,100	\$ 5.00
	Lease	Dow Industrial Bioscience, LLC	Craven County	4,875	5.00
	Lease	Contentnea MSD	Carolina Water Service, Inc.	4,000	5.00
	Sale	Phillips Metal Works	Johnston County	1,000	500.00
2018	Lease	Contentnea MSD	CWS, Inc.	2,500	\$ 5.00
	Lease	Contentnea MSD	Town of LaGrange	4,000	4.00
	Lease	Dow-Dupont	Town of Kenly	1,000	5.00
	Lease	Dow-Dupont	Aqua, N.C.	600	5.00
	Lease	City of Goldsboro	City of Havelock	6,000	5.00
	Lease	Dow-Dupont	Craven County	4,280	4.00
2017	Lease	Contentnea MSD	CWS, Inc.	7,000	\$ 5.00
	Lease	NRCA	Craven County	50	9.00
	Lease	Dow-Dupont	Craven County	307	4.00
2016	Lease	Contentnea MSD	Town of LaGrange	1,000	\$ 4.00
	Lease	NRCA	Craven County	50	9.00
2015	Lease	Contentnea MSD	Aqua, N.C., Inc.	750	\$ 4.00
	Lease	Contentnea MSD	Town of LaGrange	1,300	4.00
	Lease	NRCA	Craven County	50	9.00

Year	Type of Nitrogen Transaction	Seller/Leasor	Buyer/Leasee	Estuary Lbs. of Nitrogen *	Cost per Pound
2014	Lease	Contentnea MSD	Aqua, N.C., Inc.	4,000	\$ 4.00
	Lease	Contentnea MSD	Town of LaGrange	1,300	4.00
	Lease	NRCA	Craven County	50	9.00
2013	Lease	NRCA	CWS Systems, Inc.	1,000	\$ 9.00
2012	Lease	NRCA	CWS Systems, Inc.	1,000	\$ 9.00
	Sale	SGWASA	City of Raleigh, N.C.	2,445	330.00
2010	Lease	NRCA	Progress Energy	9,000	\$ 9.00
	Lease	Dupont - Kinston	Aqua, N.C., Inc.	1,200	4.00
	Lease	Johnston County, N.C.	Town of Kenly, N.C.	1,577	8.18
	Lease	Dupont - Kinston	Contentnea MSD	15,000	4.00
	Lease	UNIFI, LLC, Kinston, N.C.	Contentnea MSD	3,500	4.00
2009	Lease	NRCA	Progress Energy	9,000	\$ 9.00
	Lease	Dupont - Kinston	Aqua, N.C., Inc.	2,500	4.00
	Lease	Johnston County	Town of Kenly, N.C.	1,745	8.18
2008	Lease	Johnston County, N.C.	Town of Kenly, N.C.	2,100	\$ 8.18
	Lease	UNIFI, LLC, Kinston, N.C.	Aqua, N.C., Inc.	3,500	4.00
	Sale	Town of Benson, N.C.	Johnston County, N.C.	360	490.80
2007	Lease	Johnston County, N.C.	Town of Kenly, N.C.	1,800	\$ 8.18
	Lease	NRCA	MCAS Cherry Point	5,000	3.00
	Sale	UNIFI, LLC, Kinston, N.C.	Johnston County, N.C.	1,645	490.80
	Sale	UNIFI, LLC, Kinston, N.C.	Town of Clayton, N.C.	1,645	490.73
2006	Lease	UNIFI, LLC, Kinston, N.C.	Contentnea MSD	5,000	\$ 2.00
	Lease	Johnston County, N.C.	Town of Kenly, N.C.	3,000	3.00
	Lease	NRCA	MCAS Cherry Point	10,000	2.00
	Sale	SGWASA	Town of Clayton, N.C.	3,668	490.73
2005	Lease	UNIFI, LLC, Kinston, N.C.	Contentnea MSD	1,800	\$ 2.00
	Lease	Johnston County, N.C.	Town of Kenly, N.C.	1,800	3.00
	Lease	NRCA	MCAS Cherry Point	20,000	1.50
2004	Sale	Bay River MSD	Town of Butner, N.C.	6,113	\$ 275.00

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Notes:

- 1 Town of Butner, N.C. transferred their WWT facilities (and nitrogen allocation) to SGWSA in 2006.
- 2 NRCA - Neuse River Compliance Association
- 3 MCAS Cherry Point - Marine Corp Air Station, Cherry Point, Havelock, N.C. (multiple year lease).
- 4 Bay River MSD - Bay River Metropolitan Sewer District, Bayboro, N.C.
- 5 Contentnea MSD - Metropolitan Sewer District, Grifton, N.C.
- 6 SGWASA - South Granville Water & Sewer Authority, Butner, N.C.
- 7 Nitrogen lease - Temporary annual transfer for individual permit compliance.
- 8 Nitrogen sale - Permanent transfer of nitrogen allocation between two parties.
- 9 * Transport factor for "end of pipe" nitrogen value must be calculated for each individual permit holder.

Progress Achieved:

The Association is extremely proud of the commitment, experience, and knowledge of its members in reducing nitrogen delivery to the Neuse River Estuary since the implementation of the Neuse Nutrient Management Strategy in 1998 as demonstrated below.

Year	Total Average Flow (MGD)	Total Nitrogen (lbs.) Delivered to the Neuse Estuary
1995	83.808	1,784,130
1996	85.675	1,741,492
1997	81.444	1,653,262
1998	93.442	1,387,717
1999	94.659	1,123,169
2000	92.582	1,056,202
2001	86.818	907,381
2002	89.926	797,991
2003	107.463	711,398
2004	101.203	558,553
2005	101.757	566,627
2006	102.970	542,205
2007	92.994	461,325
2008	90.563	489,798
2009	98.570	497,002
2010	101.852	584,192
2011	93.384	513,269
2012	97.248	540,892
2013	102.847	514,847
2014	108.359	568,387
2015	108.721	610,915
2016	108.734	593,145
2017	101.510	491,822
2018	113.122	556,567
2019	105.573	481,011
2020	126.823	516,645
2021	123.839	564,843
2022	107.551	456,385

NEUSE RIVER COMPLIANCE ASSOCIATION

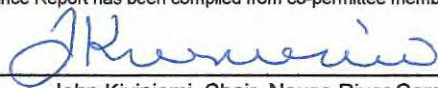
Total Nitrogen Monitoring Report for 2022

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NPDES Permit #: NCC00001		END OF PIPE						ESTUARY			
FACILITY	NPDES Permit #	Permit Flow (MGD)	2022 Avg. Flow (MGD)	Member TN Allocation (Lbs/Yr.)	Member TN Discharge (Lbs/Yr.)	Transport Factor	2022 Lease (Estuary Lbs.)	Member Estuary Allocation	Adjusted TN Allocation 2022 (Lbs/Yr.)	2022 TN Delivery (Lbs/Yr.)	% of Estuary Allocation
SGWASA	NC0026824	5.500	1.457	22,420	9,656	10%	0	2,242	0	966	43
Town of Hillsborough	NC0026433	3.000	1.081	10,422	4,213	10%	0	1,042	0	421	40
City of Durham	NC0023841	20.000	8.561	97,665	54,798	10%	0	9,767	0	5,480	56
Town of Apex	NC0064050	3.600	1.213	40,547	15,505	50%	0	20,274	0	7,753	38
Town of Benson	NC0020389	1.900	0.960	33,070	12,165	50%	0	16,535	0	6,082	37
Town of Cary ~ North	NC0048879	12.000	6.147	143,246	33,922	50%	0	71,623	0	16,961	24
Town of Cary ~ South	NC0065102	12.800	4.974	180,211	25,235	50%	0	90,105	0	12,617	14
City of Raleigh ~ Smith Creek	NC0030759	3.000	2.320	70,814	34,472	50%	0	35,407	0	17,236	49
City of Raleigh ~ Neuse	NC0029033	75.000	45.867	713,373	314,630	50%	0	356,687	0	157,315	52
Raleigh ~ Ground Water	NA	NA	NA	NA	59,431	50%		NA		29,716	
City of Raleigh ~ Little Creek	NC0079316	2.200	0.831	26,660	6,440	50%	0	13,330	0	3,220	24
Town of Clayton	NC0025453	2.500	1.617	22,832	24,464	50%	0	11,416	0	12,232	107
Neuse Colony, (Aqua NC)	NC0064564	0.350	0.269	8,447	9,091	50%	1,100	4,224	5,324	4,545	85
Johnston County	NC0030716	9.500	4.385	73,476	28,649	50%	0	36,738	0	14,324	39
Town of Kenly	NC0064891	0.630	0.347	7,096	5,195	50%	0	3,548	0	2,598	73
Town of Farmville	NC0029572	3.500	0.793	42,211	2,545	50%	0	21,106	0	1,273	6
Town of Snow Hill	NC0020842	0.500	0.186	5,632	2,181	50%	0	2,816	0	1,090	39
City of Wilson	NC0023906	14.000	7.259	157,886	52,032	50%	0	78,943	0	26,016	33
Duke Energy ~ Lee Facility	NC0003417	NA	0.034	3,260	89	70%	0	2,282	0	62	3
City of Goldsboro	NC0023949	14.200	7.619	199,822	60,898	70%	0	139,876	0	42,629	30
Town of LaGrange	NC0021644	0.750	0.258	8,447	3,127	70%	0	5,913	0	2,189	37
City of Kinston (Regional)	NC0024236	11.850	3.407	126,711	17,642	70%	0	88,697	0	12,350	14
Contentnea MSD	NC0032077	3.500	1.476	37,100	6,122	70%	-7,500	25,970	18,470	4,285	23
CovationBio	NC0003760	3.600	0.198	25,493	1,519	70%	-1,100	17,845	16,745	1,063	6
City of New Bern	NC0025348	6.500	2.823	64,210	31,363	100%	0	64,210	0	31,363	49
MCAS Cherry Point	NC0003816	3.500	1.153	39,421	14,481	100%	0	39,421	0	14,481	37
City of Havelock	NC0021253	2.250	1.171	21,400	12,676	100%	0	21,400	0	12,676	59
Craven County	NC0084460	0.000	0.846	0	3,557	100%	4,000	4,000	4,000	3,557	89
Carolina Water Service, Inc.	NC0033111	0.600	0.302	11,263	11,886	100%	3,500	11,263	14,763	11,886	81
		216.730	107.551							456,385	

This Compliance Report has been compiled from co-permittee members' monthly discharge monitoring reports. I certify that this report is accurate and complete to the best of my knowledge.



John Kiviniemi, Chair, Neuse River Compliance Association

3/24/2023

Date

NOTES: 1. Average Total Nitrogen Concentration End of Pipe by NRCA Members during 2022:

2.44 mg/L

2. Average Total Nitrogen Concentration with ground water contribution in 2022:

2.62 mg/L

3. NRCA's Annual Report Prepared By: Haywood M. Phthisic, III, Executive Director

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Total Nitrogen Monitoring Report for 2022

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FACILITY	January, 2022			February, 2022			March, 2022			April, 2022		
	Flow (MG)	TN Conc. (mg/L)	TN Disch. (Lbs.)	Flow (MG)	TN Conc. (mg/L)	TN Disch. (Lbs.)	Flow (MG)	TN Conc. (mg/L)	TN Disch. (Lbs.)	Flow (MG)	TN Conc. (mg/L)	TN Disch. (Lbs.)
SGWASA	51.057	2.6940	1,147	52.029	2.4400	1,059	57.294	2.7450	1,312	43.842	1.9800	724
Town of Hillsborough	38.877	1.4825	481	31.398	1.1275	295	42.095	1.0160	357	33.618	1.1525	323
City of Durham	303.690	2.9867	7,565	247.290	2.6180	5,399	323.570	1.7380	4,690	252.370	1.2620	2,656
Town of Apex	45.311	2.8975	1,095	35.032	3.8325	1,120	43.622	3.5600	1,295	39.102	3.7275	1,216
Town of Benson	34.756	4.4575	1,292	28.929	6.0400	1,457	31.692	2.9860	789	27.458	2.5425	582
Town of Cary ~ North	212.490	2.8383	5,030	174.800	2.1383	3,117	211.260	2.1373	3,766	198.520	1.8236	3,019
Town of Cary ~ South	174.007	1.8350	2,663	144.850	1.8450	2,229	172.350	1.8430	2,649	147.900	1.7575	2,168
City of Raleigh ~ Smith Creek	74.995	5.6350	3,524	62.671	4.5225	2,364	73.209	4.8960	2,989	65.824	4.7825	2,625
City of Raleigh ~ Neuse	1,542.423	1.8140	23,335	1,283.561	1.8675	19,991	1,489.661	1.8475	22,953	1,375.144	1.8825	21,590
Raleigh ~ Ground Water			4,953			4,953			4,953			4,953
City of Raleigh ~ Little Creek	32.336	2.0360	549	24.729	2.4450	504	28.853	2.2675	546	27.372	2.8350	647
Town of Clayton	59.196	4.1020	2,025	49.923	4.2967	1,789	59.122	4.0060	1,975	53.588	2.5700	1,149
Neuse Colony (Aqua NC)	9.047	8.3000	626	7.836	10.1000	660	8.675	9.1600	663	8.396	6.6640	467
Johnston County	206.100	3.8680	6,649	169.568	2.0725	2,931	187.674	1.3880	2,172	136.260	1.7100	1,943
Town of Kenly	15.089	5.7600	725	11.352	4.9625	470	10.854	6.5440	592	9.478	4.0750	322
Town of Farmville	38.885	0.8860	287	34.552	0.8330	240	31.940	0.8660	231	26.378	1.4675	323
Town of Snow Hill	5.955	3.6050	179	5.239	3.0900	135	5.516	3.2400	149	4.086	4.5575	155
City of Wilson	311.310	3.0300	7,867	258.980	1.8175	3,926	259.860	2.0875	4,524	221.000	2.4250	4,470
Duke Energy ~ Lee Facility	0.000	0.0000	0	3.730	0.7400	23	1.870	0.0000	0	0.000	0.0000	0
City of Goldsboro ~ Pipe 01	283.710	3.6525	8,642	261.080	4.8150	10,484	267.560	3.2850	7,330	235.930	2.6060	5,128
City of Goldsboro ~ Pipe 02	0.000	0.0000	0	0.000	0.0000	0	0.000	0.0000	0	0.000	0.0000	0
Town of LaGrange	10.221	3.9575	337	8.657	3.5625	257	8.823	3.4920	257	7.736	3.3750	218
City of Kinston (Regional)	128.790	1.7040	1,830	110.160	1.2500	1,148	117.090	1.2525	1,223	112.200	1.3500	1,263
Contentnea MSD	58.942	1.5025	739	51.673	0.7975	344	51.304	0.6840	293	44.322	1.0175	376
CovationBio	7.595	0.8300	53	5.376	1.3000	58	5.673	0.4750	22	5.640	0.8220	39
City of New Bern	5.950	0.2020	10	101.340	4.7400	4,006	115.700	3.8300	3,696	124.090	3.5800	3,705
MCAS Cherry Point	36.530	4.0200	1,225	29.640	2.9500	729	34.650	3.0000	867	31.250	3.3500	873
City of Havelock	41.090	3.5875	1,229	34.400	2.8475	817	38.020	3.6040	1,143	36.440	3.2550	989
Craven County	24.211	1.4000	283	23.324	1.2500	243	26.133	1.1600	253	26.790	1.5750	352
Carolina Water Service, Inc.	8.700	17.4280	1,265	7.420	10.1500	628	8.400	17.5150	1,227	8.630	13.8950	1,000
Totals	3,761.263		85,604	3,259.539		71,378	3,712.470		72,916	3,303.364		63,275

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FACILITY	May, 2022			June, 2022			July, 2022			August, 2022		
	Flow (MG)	TN Conc. (mg/L)	TN Disch. (Lbs.)	Flow (MG)	TN Conc. (mg/L)	TN Disch. (Lbs.)	Flow (MG)	TN Conc. (mg/L)	TN Disch. (Lbs.)	Flow (MG)	TN Conc. (mg/L)	TN Disch. (Lbs.)
SGWASA	45.257	2.0200	762	33.944	1.9775	560	39.408	1.9560	643	39.433	1.7940	590
Town of Hillsborough	36.888	1.3010	400	29.324	1.2375	303	31.462	1.3900	365	28.387	1.7060	404
City of Durham	286.430	1.5183	3,627	223.090	0.9920	1,846	253.040	1.5466	3,264	235.680	1.2225	2,403
Town of Apex	39.720	4.1960	1,390	32.726	4.5600	1,245	33.232	4.5000	1,247	33.355	5.4800	1,524
Town of Benson	23.907	4.9775	992	22.410	3.3620	628	29.200	4.5775	1,115	31.187	2.7020	703
Town of Cary ~ North	200.750	2.3461	3,928	169.980	1.5723	2,229	180.250	1.5133	2,275	176.130	1.3650	2,005
Town of Cary ~ South	151.060	1.5788	1,989	133.210	1.6277	1,808	142.960	1.4812	1,766	151.430	1.4200	1,793
City of Raleigh ~ Smith Creek	70.794	5.6100	3,312	66.930	4.7500	2,651	77.078	3.6225	2,329	73.133	4.1160	2,510
City of Raleigh ~ Neuse	1,371.021	2.0340	23,257	1,284.929	2.5220	27,027	1,375.238	1.9850	22,767	1,397.100	2.4020	27,988
Raleigh ~ Ground Water			4,953			4,953			4,953			4,952
City of Raleigh ~ Little Creek	24.547	2.6700	547	20.945	2.8320	495	24.882	2.4625	511	23.077	3.0180	581
Town of Clayton	50.018	5.2100	2,173	41.492	6.6175	2,290	44.279	4.9742	1,837	45.683	3.9622	1,510
Neuse Colony (Aqua NC)	9.627	8.9000	715	8.998	14.8750	1,116	9.540	19.7280	1,570	7.919	10.6320	702
Johnston County	114.514	2.0720	1,979	26.190	1.5825	346	106.965	1.7075	1,523	123.876	2.9960	3,095
Town of Kenly	10.339	3.9600	341	8.343	4.3140	300	9.963	3.6575	304	10.510	3.8575	338
Town of Farmville	21.540	0.8600	154	16.917	0.9740	137	25.870	0.8575	185	21.969	1.1520	211
Town of Snowhill	3.965	4.4000	145	8.100	4.4400	300	4.710	4.3575	171	6.172	6.2220	320
City of Wilson	198.020	2.6460	4,370	174.220	3.1875	4,631	207.930	1.9425	3,369	208.710	2.3080	4,017
Duke Energy ~ Lee Facility	0.000	0.0000	0	0.000	0.0000	0	3.720	1.6000	50	1.390	0.7500	9
City of Goldsboro ~ Pipe 01	234.750	1.5450	3,025	196.730	1.9750	3,240	243.320	1.5460	3,137	228.500	1.5300	2,916
City of Goldsboro ~ Pipe 02	0.000	0.0000	0	0.000	0.0000	0	0.000	0.0000	0	0.000	0.0000	0
Town of LaGrange	8.017	4.5350	303	7.595	5.7680	365	7.907	5.1025	336	7.547	3.4025	214
City of Kinston (Regional)	103.940	1.6860	1,462	94.600	2.3075	1,821	99.900	1.9775	1,648	101.500	1.7600	1,490
Contentnea MSD	40.287	1.5500	521	36.550	1.1875	362	46.212	1.3750	530	43.842	1.6240	594
CovationBio	6.603	6.5275	359	4.800	10.8320	434	7.171	2.8475	170	6.696	1.7060	95
City of New Bern	0.000	0.0000	0	109.260	3.5800	3,262	128.520	3.7500	4,019	115.300	2.7500	2,644
MCAS Cherry Point	33.690	2.9800	837	32.060	3.7250	996	42.420	3.7750	1,336	39.970	4.6000	1,533
City of Havelock	32.452	3.4225	926	29.676	3.9620	981	41.593	3.4400	1,193	38.707	3.7825	1,221
Craven County	29.016	2.0200	489	27.480	1.5750	361	26.660	0.9750	217	26.229	1.1800	258
Carolina Water Service, Inc.	9.000	12.6320	948	8.360	13.0830	912	10.720	13.8600	1,239	10.850	14.5800	1,319
Totals	3,156.152		63,907	2,848.859		65,599	3,254.150		64,068	3,234.282		67,941

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FACILITY	September, 2022			October, 2022			November, 2022			December, 2022		
	Flow (MG)	TN Conc. (mg/L)	TN Disch. (Lbs.)	Flow (MG)	TN Conc. (mg/L)	TN Disch. (Lbs.)	Flow (MG)	TN Conc. (mg/L)	TN Disch. (Lbs.)	Flow (MG)	TN Conc. (mg/L)	TN Disch. (Lbs.)
SGWASA	37.272	1.7440	542	39.144	2.2362	730	41.959	2.1637	757	50.999	1.9520	830
Town of Hillsborough	25.948	1.7925	388	28.972	1.4775	357	30.486	1.5025	382	36.984	1.4960	461
City of Durham	225.500	1.7325	3,258	240.860	3.3000	6,629	242.940	2.0600	4,174	290.330	2.4900	6,029
Town of Apex	30.704	3.8700	991	33.966	5.0900	1,442	34.675	4.5500	1,316	41.261	4.7225	1,625
Town of Benson	35.006	3.5375	1,033	27.803	3.3500	777	26.055	4.5700	993	32.003	6.7550	1,803
Town of Cary ~ North	166.450	1.5292	2,123	177.410	1.5683	2,320	179.930	1.1863	1,780	195.530	1.4270	2,327
Town of Cary ~ South	142.550	1.6288	1,936	148.340	1.4825	1,834	148.890	1.4955	1,857	157.890	1.9300	2,541
City of Raleigh ~ Smith Creek	70.941	5.2850	3,127	69.283	5.1700	2,987	68.255	5.1040	2,905	73.829	5.1100	3,146
City of Raleigh ~ Neuse	1,332.709	2.0175	22,424	1,405.011	3.0500	35,739	1,389.419	3.1400	36,386	1,495.124	2.5000	31,173
Raleigh ~ Ground Water			4,952			4,952			4,952			4,952
City of Raleigh ~ Little Creek	21.688	3.1175	564	22.689	2.7760	525	23.579	2.1425	421	28.474	2.3150	550
Town of Clayton	42.999	4.6100	1,653	46.294	5.6590	2,185	47.217	6.7683	2,665	50.419	7.6411	3,213
Neuse Colony (Aqua NC)	8.052	7.7075	518	7.765	4.4000	285	6.109	15.1940	774	6.093	19.5950	996
Johnston County	113.070	1.8100	1,707	119.381	1.8750	1,867	135.960	1.6160	1,832	160.797	1.9420	2,604
Town of Kenly	9.679	4.8500	392	10.327	4.7980	413	9.429	4.7275	372	11.455	6.5525	626
Town of Farmville	16.037	0.7500	100	12.692	1.2175	129	18.572	1.4680	227	23.972	1.6000	320
Town of Snow Hill	7.660	4.0070	256	6.274	2.5775	135	4.759	2.6080	104	5.421	2.8975	131
City of Wilson	188.380	2.4450	3,841	193.910	2.3580	3,813	194.310	2.3425	3,796	232.840	1.7550	3,408
Duke Energy ~ Lee Facility	0.600	0.0000	0	1.250	0.7000	7	0.000	0.0000	0	0.000	0.0000	0
City of Goldsboro ~ Pipe 01	211.550	1.3860	2,445	216.690	2.0500	3,705	194.280	3.7000	5,995	206.660	2.8140	4,850
City of Goldsboro ~ Pipe 02	0.000	0.0000	0	0.000	0.0000	0	0.000	0.0000	0	0.000	0.0000	0
Town of LaGrange	7.391	3.0560	188	7.379	4.2250	260	6.686	3.4100	190	6.079	3.9400	200
City of Kinston (Regional)	92.200	2.3375	1,797	98.100	1.5960	1,306	92.900	1.6075	1,245	92.200	1.8325	1,409
Contentnea MSD	40.942	2.5750	879	41.616	1.6650	578	40.223	1.2600	423	42.711	1.3600	484
CovationBio	6.985	2.9650	173	4.588	0.9500	36	5.490	0.9150	42	5.735	0.7800	37
City of New Bern	114.880	3.6500	3,497	0.000	0.0000	0	104.090	3.4900	3,030	111.400	3.7600	3,493
MCAS Cherry Point	38.390	5.4000	1,729	32.220	4.8800	1,311	32.560	5.4500	1,480	37.530	5.0000	1,565
City of Havelock	36.930	3.7700	1,161	35.490	3.5775	1,059	29.518	3.7760	930	33.002	3.7300	1,027
Craven County	26.665	1.2500	278	25.141	1.6000	335	23.760	1.5800	313	23.312	0.9000	175
Carolina Water Service, Inc.	9.500	10.9750	870	8.360	14.9833	1,045	9.200	13.3250	1,022	11.000	4.4750	411
Totals	3,060.678		62,823	3,060.955		76,763	3,141.251		80,364	3,463.050		80,388

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FACILITY	Total Q (MG)	EOP Total Nitrogen (Lbs)	EOP Avg Conc. (mg/L)	Avg Q (MGD)
SGWASA	531.638	9,656	2.18	1.457
Town of Hillsborough	394.439	4,213	1.28	1.081
City of Durham	3,124.790	54,798	2.10	8.561
Town of Apex	442.706	15,505	4.20	1.213
Town of Benson	350.406	12,165	4.16	0.960
Town of Cary ~ North	2,243.500	33,922	1.81	6.147
Town of Cary ~ South	1,815.437	25,235	1.67	4.974
City of Raleigh ~ Smith Creek	846.942	34,472	4.88	2.320
City of Raleigh ~ Neuse	16,741.340	314,630	2.25	45.867
Raleigh ~ Ground Water		59,431		
City of Raleigh ~ Little Creek	303.171	6,440	2.55	0.831
Town of Clayton	590.230	24,464	4.97	1.617
Neuse Colony (Aqua NC)	98.057	9,091	11.12	0.269
Johnston County	1,600.355	28,649	2.15	4.385
Town of Kenly	126.818	5,195	4.91	0.347
Town of Farmville	289.324	2,545	1.05	0.793
Town of Snow Hill	67.857	2,181	3.85	0.186
City of Wilson	2,649.470	52,032	2.35	7.259
Duke Energy ~ Lee Facility	12.560	89	0.85	0.034
City of Goldsboro ~ Pipe 01	2,780.760	60,898	2.63	7.619
City of Goldsboro ~ Pipe 02	0.000	0	0.00	0.000
Town of LaGrange	94.038	3,127	3.99	0.258
City of Kinston (Regional)	1,243.580	17,642	1.70	3.407
Contentnea MSD	538.624	6,122	1.36	1.476
CovationBio	72.352	1,519	2.52	0.198
City of New Bern	1,030.530	31,363	3.65	2.823
MCAS Cherry Point	420.910	14,481	4.13	1.153
City of Havelock	427.318	12,676	3.56	1.171
Craven County	308.721	3,557	1.38	0.846
Carolina Water Service, Inc.	110.140	11,886	12.94	0.302
Operating Totals	39,256.013	798,551	2.44	107.551
Association Totals	39,256.013	857,982	2.62	107.551