

Water-Data Report 2008

0208739674 NEUSE RIVER TRIBUTARY AT NORTH RALEIGH WWTP (CMP SITE) NEAR AUBURN, NC

Neuse Basin
Upper Neuse Subbasin

LOCATION.--Lat 35°43'18", long 78°30'08" referenced to North American Datum of 1983, Wake County, NC, Hydrologic Unit 03020201, on right bank at upstream side, 0.7 mi southeast of bridge on Secondary Road 2555 and 3.4 mi northeast of Auburn at the Neuse River Wastewater Treatment Plant.

DRAINAGE AREA.--2.24 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 2007 to May 2008.

GAGE.--Water-stage recorder. Elevation of gage is 156 ft above National Geodetic Vertical Datum of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor. Site is subject to backwater from the Neuse River. As a result, mean daily discharge values for those periods are estimated. Minimum discharge for period of record also occurred part of each day, September 6-8, 2007.

0208739674 NEUSE RIVER TRIBUTARY AT NORTH RALEIGH WWTP (CMP SITE) NEAR AUBURN, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	0.53	0.79	0.28	0.04
2	---	---	---	---	---	---	---	---	0.53	0.63	0.23	0.03
3	---	---	---	---	---	---	---	---	4.1	0.56	0.23	0.03
4	---	---	---	---	---	---	---	---	2.2	0.50	0.21	0.03
5	---	---	---	---	---	---	---	---	0.68	0.47	0.16	0.02
6	---	---	---	---	---	---	---	---	0.59	0.48	0.13	0.03
7	---	---	---	---	---	---	---	---	0.52	0.47	0.13	0.03
8	---	---	---	---	---	---	---	---	0.49	0.44	0.10	0.02
9	---	---	---	---	---	---	---	1.0	0.47	0.40	0.09	0.03
10	---	---	---	---	---	---	---	0.94	0.46	0.45	0.08	0.03
11	---	---	---	---	---	---	---	0.83	0.47	0.57	0.13	0.03
12	---	---	---	---	---	---	---	1.4	0.59	0.54	0.16	0.03
13	---	---	---	---	---	---	---	1.4	0.68	0.45	0.08	0.03
14	---	---	---	---	---	---	---	0.96	0.62	0.41	0.06	0.88
15	---	---	---	---	---	---	---	0.82	0.55	0.37	0.05	1.1
16	---	---	---	---	---	---	---	0.74	0.50	0.34	0.05	0.14
17	---	---	---	---	---	---	---	0.86	0.45	0.38	0.06	0.12
18	---	---	---	---	---	---	---	0.84	0.39	21	0.06	0.12
19	---	---	---	---	---	---	---	0.79	0.36	0.89	0.04	0.15
20	---	---	---	---	---	---	---	0.72	0.68	0.66	0.04	0.21
21	---	---	---	---	---	---	---	0.66	0.51	0.60	0.14	0.24
22	---	---	---	---	---	---	---	0.63	0.46	0.52	0.26	0.20
23	---	---	---	---	---	---	---	0.63	0.54	0.49	0.17	0.15
24	---	---	---	---	---	---	---	0.61	0.46	0.46	0.15	0.12
25	---	---	---	---	---	---	---	0.58	0.39	0.45	0.10	0.11
26	---	---	---	---	---	---	---	0.54	0.35	0.40	0.08	0.11
27	---	---	---	---	---	---	---	0.53	5.2	0.40	0.11	0.12
28	---	---	---	---	---	---	---	0.47	1.6	0.46	0.09	0.09
29	---	---	---	---	---	---	---	1.0	0.93	0.40	0.06	0.06
30	---	---	---	---	---	---	---	0.61	1.0	0.41	0.06	0.07
31	---	---	---	---	---	---	---	0.55	---	0.37	0.05	---
Total	---	---	---	---	---	---	---	18.11	27.30	35.76	3.64	4.37
Mean	---	---	---	---	---	---	---	0.79	0.91	1.15	0.12	0.15
Max	---	---	---	---	---	---	---	1.4	5.2	21	0.28	1.1
Min	---	---	---	---	---	---	---	0.47	0.35	0.34	0.04	0.02
Cfsm	---	---	---	---	---	---	---	0.35	0.41	0.51	0.05	0.07
In.	---	---	---	---	---	---	---	0.30	0.45	0.59	0.06	0.07

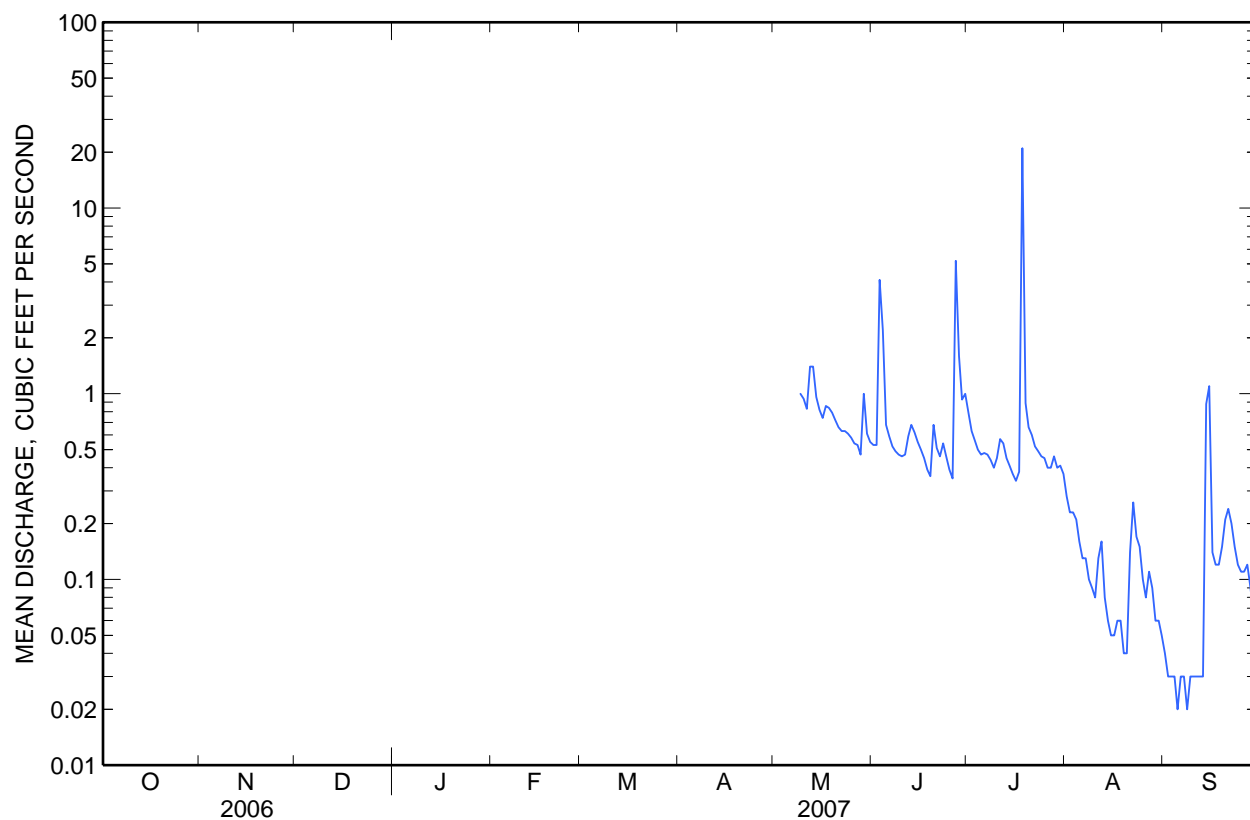
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2007 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	---	---	---	---	---	---	---	---	0.91	1.15	0.12	0.15
Max	---	---	---	---	---	---	---	---	0.91	1.15	0.12	0.15
(WY)	(---)	(---)	(---)	(---)	(---)	(---)	(---)	(---)	(2007)	(2007)	(2007)	(2007)
Min	---	---	---	---	---	---	---	---	0.91	1.15	0.12	0.15
(WY)	(---)	(---)	(---)	(---)	(---)	(---)	(---)	(---)	(2007)	(2007)	(2007)	(2007)

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SUMMARY STATISTICS

Water Year 2007		
Highest daily mean	21	Jul 18
Lowest daily mean	0.02	Sep 5
Annual seven-day minimum	0.03	Sep 2
Maximum peak flow	71	Jul 18
Maximum peak stage	2.72	Jul 18
Instantaneous low flow	0.01	Sep 5



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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.07	0.38	0.44	2.1	1.3	0.87	4.0	2.2	---	---	---	---
2	0.08	0.29	0.46	1.6	1.2	0.85	2.7	1.9	---	---	---	---
3	0.10	0.30	0.47	1.4	1.1	0.85	2.5	1.6	---	---	---	---
4	0.11	0.29	0.47	1.1	1.1	0.88	2.8	1.5	---	---	---	---
5	0.14	0.29	0.45	0.81	1.0	1.4	13	1.5	---	---	---	---
6	0.19	0.28	0.45	0.74	0.95	0.91	8.5	1.4	---	---	---	---
7	0.15	0.29	0.45	0.71	0.88	4.1	5.2	1.3	---	---	---	---
8	0.11	0.35	0.45	0.63	0.89	6.4	4.4	1.1	---	---	---	---
9	0.07	0.37	0.46	0.58	0.82	2.2	4.0	1.3	---	---	---	---
10	0.06	0.38	0.47	0.58	0.78	1.8	3.5	0.84	---	---	---	---
11	0.05	0.45	0.49	0.55	0.80	1.7	2.8	1.4	---	---	---	---
12	0.04	0.43	0.48	0.51	0.82	1.5	2.4	1.7	---	---	---	---
13	0.05	0.38	0.49	0.52	1.6	1.3	2.3	1.2	---	---	---	---
14	0.05	0.37	0.46	0.62	1.3	1.4	2.1	1.00	---	---	---	---
15	0.05	0.48	0.66	0.68	1.1	1.8	2.0	0.98	---	---	---	---
16	0.05	0.38	2.4	0.66	0.95	1.7	1.9	1.2	---	---	---	---
17	0.05	0.37	0.76	1.1	0.87	1.3	1.8	0.92	---	---	---	---
18	0.08	0.40	0.66	0.89	1.5	1.3	1.6	1.00	---	---	---	---
19	0.13	0.44	0.62	1.1	0.99	1.3	1.6	0.99	---	---	---	---
20	0.08	0.44	0.59	1.1	0.93	1.3	1.9	1.0	---	---	---	---
21	0.06	0.42	0.55	0.98	0.90	1.1	1.7	1.1	---	---	---	---
22	0.06	0.37	0.54	0.98	1.1	1.1	1.6	1.0	---	---	---	---
23	0.06	0.32	0.70	1.0	0.91	1.1	1.5	1.2	---	---	---	---
24	0.90	0.37	0.64	0.94	0.84	1.1	1.4	1.2	---	---	---	---
25	0.91	0.42	0.55	0.81	0.84	1.0	1.3	1.1	---	---	---	---
26	1.8	0.54	2.3	0.83	1.2	0.99	1.3	1.0	---	---	---	---
27	e139	0.48	1.2	0.77	1.2	0.94	1.5	0.95	---	---	---	---
28	e2.8	0.45	0.88	0.72	0.91	0.88	e65	1.3	---	---	---	---
29	0.45	0.45	0.73	0.74	0.92	0.91	e10	1.2	---	---	---	---
30	0.40	0.44	21	0.76	---	1.3	3.0	---	---	---	---	---
31	0.39	---	51	0.73	---	4.2	---	---	---	---	---	---
Total	148.54	11.62	92.27	27.24	29.70	49.48	159.3	36.08	---	---	---	---
Mean	4.79	0.39	2.98	0.88	1.02	1.60	5.31	1.24	---	---	---	---
Max	139	0.54	51	2.1	1.6	6.4	65	2.2	---	---	---	---
Min	0.04	0.28	0.44	0.51	0.78	0.85	1.3	0.84	---	---	---	---
Cfsm	2.14	0.17	1.33	0.39	0.46	0.71	2.37	0.56	---	---	---	---
In.	2.47	0.19	1.53	0.45	0.49	0.82	2.65	0.60	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2007 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4.79	0.39	2.98	0.88	1.02	1.60	5.31	---	0.91	1.15	0.12	0.15
Max	4.79	0.39	2.98	0.88	1.02	1.60	5.31	---	0.91	1.15	0.12	0.15
(WY)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(---)	(2007)	(2007)	(2007)	(2007)
Min	4.79	0.39	2.98	0.88	1.02	1.60	5.31	---	0.91	1.15	0.12	0.15
(WY)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(---)	(2007)	(2007)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 2007 - 2008	
Highest daily mean	139	Oct 27	139	Oct 27	139	Oct 27, 2007
Lowest daily mean	0.02	Sep 5	0.04	Oct 12	0.02	Sep 5, 2007
Annual seven-day minimum	0.03	Sep 2	0.05	Oct 11	0.03	Sep 2, 2007
Maximum peak flow			276	Oct 27	276	Oct 27, 2007
Maximum peak stage			5.40	Oct 27	5.40	Oct 27, 2007
Instantaneous low flow			0.03	Oct 11	^a 0.01	Sep 5, 2007

^aSee Remarks.