Ambient Monitoring System Station Summaries
NCDENR, Division of Water Quality
Basinwide Assessment Report

Location: NEUSE RIV AT NC 42 NR CLAYTON

Station #: J4170000 **Hydrologic Unit Code:** 03020201

Latitude: 35.64732 **Longitude:** -78.40567 **Stream class:** WS-IV NSW

Agency: LNBA **NC stream index:** 27-(38.5)

Time period: 01/13/2005 to 12/21/2009

	# results	# ND	EL	Results not meeting EL #	%	%Conf	Percentiles Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		5.6	6.1	6.5	7	9.2	11.3	12.8
	85	0	<5	0	0		5.6	6.1	6.5	7	9.2	11.3	12.8
pH (SU)	85	0	<6	0	0		6.5	6.8	7	7	7.2	7.3	7.7
	85	0	>9	0	0		6.5	6.8	7	7	7.2	7.3	7.7
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				90	114	134	170	218	251	304
Water Temperature (°C)	85	0	>32	0	0		4.7	6.8	10.8	20	24.2	26.2	28.5
Other													
TSS (mg/L)	60	0	N/A				2.4	5.9	7.8	16	28	94.2	388
Turbidity (NTU)	60	0	>50	6	10	60.6	3.6	8	11	15	30.2	54.5	298
Nutrients (mg/L)													
NH3 as N	60	6	N/A				0.01	0.01	0.02	0.07	0.11	0.15	0.39
NO2 + NO3 as N	60	0	>10	0	0		0.07	0.29	0.43	0.58	0.8	1	1.33
TKN as N	60	1	N/A				0.2	0.34	0.43	0.53	0.7	0.97	1.61
Total Phosphorus	60	1	N/A				0.02	0.07	0.16	0.24	0.36	0.54	0.89
Metals (ug/L)													
Aluminum, total (Al)	28	0	N/A				159	250	379	804	1854	6177	19902
Arsenic, total (As)	28	28	>10	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	28	28	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	28	26	>50	0	0		5	5	5	5	5	6	21
Copper, total (Cu)	28	4	>7	3	10.7	69.5	2	2	2	3	5	8	34
Iron, total (Fe)	28	0	>1000	18	64.3	100	395	755	840	1196	2311	4590	19960
Lead, total (Pb)	28	26	>25	0	0		5	5	5	5	5	5	11
Manganese, total (Mn)	28	0	>200	5	17.9	94.5	63	65	77	148	176	465	899
Mercury, total (Hg)	28	28	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	28	27	>25	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	28	6	>50	1	3.6		10	10	10	16	32	48	121

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	122.9	12	20	

Key:
result: number of observations
ND: number of observations reported to be below detection level (non-detect)
EL: Evaluation Level; applicable numeric or narrative water quality standard or action level
Results not meeting EL: number and percentages of observations not meeting evaluation level
%Conf : States the percent statistical confidence that the actual percentage of exceedances is at least 10% (20% for Fecal Coliform)
Stations with less than 10 results for a given parameter were not evaluated for statistical confidence