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

Location: S YADKIN RIV AT US 601 NR COOLEEMEE

Station #: Q3970000 **Hydrologic Unit Code:** 03040102
Latitude: 35.77838 **Longitude:** -80.50673 **Stream class:** C
Agency: YPDRBA **NC stream index:** 12-108-(19.5)

Time period: 01/24/2005 to 12/14/2009

	# results	# ND	EL	Results not meeting EL #	%	%Conf	Min	Percentiles 10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		5	6	6.4	7	9.2	10.4	11
	85	0	<5	0	0		5	6	6.4	7	9.2	10.4	11
pH (SU)	85	0	<6	0	0		6.7	6.9	7	7	7.1	7.2	7.4
	85	0	>9	0	0		6.7	6.9	7	7	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				81	105	116	128	143	162	189
Water Temperature (°C)	85	0	>32	0	0		6.4	8.7	13.3	20.8	24.3	26.5	28.5
Other													
TSS (mg/L)	60	0	N/A				2.5	5.5	10.2	19.5	28.8	43.9	185
Turbidity (NTU)	60	0	>50	8	13.3	85.8	4.8	9.3	14	22	38	55.9	190
Nutrients (mg/L)													
NH3 as N	59	9	N/A				0.01	0.01	0.02	0.05	0.07	0.13	0.49
NO2 + NO3 as N	60	0	N/A				0.43	0.64	0.75	0.84	0.94	1	1.24
TKN as N	60	13	N/A				0.2	0.2	0.21	0.38	0.54	0.85	1.71
Total Phosphorus	60	0	N/A				0.02	0.05	0.07	0.11	0.14	0.21	0.52
Metals (ug/L)													
Aluminum, total (Al)	14	0	N/A				266	268	448	1178	1826	2368	2516
Arsenic, total (As)	14	14	>10	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	14	14	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	14	12	>50	0	0		5	5	5	5	5	6	6
Copper, total (Cu)	14	3	>7	0	0		2	2	2	3	5	6	6
Iron, total (Fe)	14	0	>1000	11	78.6	100	860	864	1177	1762	2739	4508	4540
Lead, total (Pb)	14	14	>25	0	0		5	5	5	5	5	5	5
Mercury, total (Hg)	14	14	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	14	13	>88	0	0		10	10	10	10	10	14	18
Zinc, total (Zn)	14	9	>50	1	7.1		10	10	10	10	17	50	61

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	46.6	0	0	

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