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

Location: CAPE FEAR RIV AT CM 18

Station #: B9921000 **Hydrologic Unit Code:** 03030005

Latitude: 33.91131 **Longitude:** -78.01658 **Stream class:** SC

Agency: LCFRP **NC stream index:** 18-88-3.5

Time period: 01/11/2005 to 12/01/2009

	# results	# ND	EL	Results not meeting EL #	%	%Conf	Min	Percentiles 10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<5	0	0		5.2	5.8	6.2	6.8	8.2	9.3	11
pH (SU)	85	0	<6.8	0	0		7.5	7.8	7.9	8	8	8.1	8.2
	85	0	>8.5	0	0		7.5	7.8	7.9	8	8	8.1	8.2
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				15888	31246	38809	45693	49292	52166	53735
Water Temperature (°C)	85	0	>32	0	0		9.1	11.7	16.5	24.7	27.8	28.9	31.2
Other													
Chlorophyll a (ug/L)	24	0	>40	0	0		2	4	5	7	10	11	14
TSS (mg/L)	60	0	N/A				5	7	8	12	19.8	28.9	53
Turbidity (NTU)	60	0	>25	2	3.3		1.8	3.1	4.1	5.8	10.8	18.6	59
Nutrients (mg/L)													
NH3 as N	60	34	N/A				0.01	0.01	0.01	0.01	0.02	0.04	0.09
NO2 + NO3 as N	60	22	N/A				0.02	0.02	0.02	0.04	0.11	0.16	1.72
TKN as N	60	5	N/A				0.1	0.1	0.2	0.3	0.59	0.7	1.63
Total Phosphorus	60	10	N/A				0.01	0.02	0.02	0.04	0.05	0.07	0.12
Metals (ug/L)													
Aluminum, total (Al)	14	2	N/A				5	5	138	162	280	566	739
Arsenic, total (As)	14	12	>10	2	14.3	84.2	1	4	10	10	10	28	34
Cadmium, total (Cd)	14	14	>5	0	0		1	1.5	2	2	2	2	2
Chromium, total (Cr)	14	14	>20	0	0		5	12	25	25	25	25	25
Copper, total (Cu)	14	10	>3	4	28.6	99.1	2	2	2	2	6	48	86
Iron, total (Fe)	14	0	N/A				46	66	213	340	377	419	445
Lead, total (Pb)	14	14	>25	0	0		3	3	10	10	10	10	10
Mercury, total (Hg)	14	14	>0.025	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	14	11	>8.3	3	21.4	95.6	5	8	10	10	12	20	24
Zinc, total (Zn)	14	11	>86	1	7.1		9	10	10	10	10	74	133

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	4.7	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