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

Location: CAPE FEAR RIV AT CM 54

Station #: B9795000 **Hydrologic Unit Code:** 03030005

Latitude: 34.13933 **Longitude:** -77.94595 **Stream class:** SC

Agency: LCFRP **NC stream index:** 18-(71)

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	19	22.4	100	3.3	4.6	5.1	6.3	8	9.6	10.7
pH (SU)	85	0	<6.8	5	5.9		6.4	7	7.2	7.4	7.6	7.8	8.1
	85	0	>8.5	0	0		6.4	7	7.2	7.4	7.6	7.8	8.1
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				111	2473	9674	17000	24128	32454	41850
Water Temperature (°C)	85	0	>32	0	0		8.1	11.4	15.8	24.1	28.2	29.7	31.3
Other													
TSS (mg/L)	60	0	N/A				5	8	9	11	17	33.9	71
Nutrients (mg/L)													
NH3 as N	60	4	N/A				0.01	0.02	0.03	0.08	0.12	0.17	0.24
NO2 + NO3 as N	60	0	N/A				0.04	0.11	0.2	0.29	0.43	0.53	0.62
TKN as N	60	0	N/A				0.1	0.3	0.55	0.7	0.87	1.19	2.24
Total Phosphorus	60	0	N/A				0.03	0.06	0.07	0.08	0.11	0.14	0.18
Metals (ug/L)													
Aluminum, total (Al)	14	0	N/A				17	90	230	288	441	1159	1420
Arsenic, total (As)	14	14	>10	0	0		1	2	10	10	10	10	10
Cadmium, total (Cd)	14	14	>5	0	0		1	1.5	2	2	2	2	2
Chromium, total (Cr)	14	13	>20	0	0		10	14	25	25	25	25	25
Copper, total (Cu)	14	10	>3	4	28.6	99.1	2	2	2	2	4	6	7
Iron, total (Fe)	14	0	N/A				174	258	378	502	645	1515	1950
Lead, total (Pb)	14	14	>25	0	0		3	4	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	14	>8.3	0	0		5	8	10	10	10	10	10
Zinc, total (Zn)	14	11	>86	0	0		5	8	10	10	10	34	56

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	24.9	1	1.7	

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