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

Location: NORTHEAST CAPE FEAR RIV AT US 117 AT CASTLE HAYNE

Station #: B9580000 **Hydrologic Unit Code:** 03030007

Latitude: 34.36366 **Longitude:** -77.89645 **Stream class:** B Sw

Agency: LCFRP **NC stream index:** 18-74-(47.5)

Time period: 01/12/2005 to 12/09/2009

	# results	# ND	EL	Results not meeting EL #	%	%Conf	Min	Percentiles 10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	N/A				3.1	3.6	4.2	6	8.4	10.2	11.1
pH (SU)	60	0	<4.3	0	0		5.4	5.9	6.1	6.4	6.7	6.8	7.6
	60	0	>9	0	0		5.4	5.9	6.1	6.4	6.7	6.8	7.6
Spec. conductance (umhos/cm at 25°C)	59	3	N/A				87	101	125	148	189	256	4566
Water Temperature (°C)	60	0	>32	0	0		6.2	9.3	11.7	20.1	25.9	29.3	30.8
Other													
TSS (mg/L)	60	1	N/A				1	2	3	3	4.8	6	10
Nutrients (mg/L)													
NH3 as N	60	9	N/A				0.01	0.01	0.02	0.03	0.05	0.08	0.15
NO2 + NO3 as N	60	1	N/A				0.02	0.08	0.13	0.2	0.34	0.42	0.73
TKN as N	60	0	N/A				0.2	0.5	0.66	0.8	1	1.16	1.49
Total Phosphorus	60	0	N/A				0.03	0.04	0.06	0.08	0.11	0.15	0.81
Metals (ug/L)													
Aluminum, total (Al)	14	1	N/A				50	104	330	416	496	612	693
Arsenic, total (As)	14	14	>10	0	0		1	2	10	10	10	10	10
Cadmium, total (Cd)	14	14	>2	0	0		1	1	2	2	2	2	2
Chromium, total (Cr)	14	14	>50	0	0		5	5	25	25	25	25	25
Copper, total (Cu)	14	14	>7	0	0		2	2	2	2	2	2	2
Iron, total (Fe)	14	0	>1000	1	7.1		386	420	508	654	789	994	1060
Lead, total (Pb)	14	14	>25	0	0		3	3	10	10	10	10	10
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	14	>88	0	0		5	5	10	10	10	10	10
Zinc, total (Zn)	14	12	>50	0	0		5	6	10	10	10	14	18

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400:	%Conf:
60	60	4	6.7	

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