

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TAR RIV AT US 158 NR BERA

Station #: O0057000

Hydrologic Unit Code: 03020101

Latitude: 36.33412

Longitude: -78.76803

Stream class: WS-IV NSW

Agency: TPBA

NC stream index: 28-(1)

Time period: 01/17/2008 to 12/17/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	77	0	<4	3	3.9		2	4.7	5.6	7.6	10.2	12.2	17
	77	0	<5	12	15.6	91.9	2	4.7	5.6	7.6	10.2	12.2	17
pH (SU)	77	0	<6	6	7.8		4.9	6	6.2	6.7	6.9	7.1	8.9
	77	0	>9	0	0		4.9	6	6.2	6.7	6.9	7.1	8.9
Spec. conductance (umhos/cm at 25°C)	75	4	N/A				50	56	63	80	88	94	161
Water Temperature (°C)	77	0	>32	0	0		0.6	6	10.8	19.2	22.2	24.3	25.9
Other													
TSS (mg/L)	56	9	N/A				1.5	2.4	3.1	4.5	9.1	20.6	305
Turbidity (NTU)	56	0	>50	3	5.4		2.4	4.4	6.3	10	18	34.8	550
Nutrients (mg/L)													
NH3 as N	56	11	N/A				0.01	0.01	0.02	0.04	0.07	0.14	0.24
NO2 + NO3 as N	56	5	>10	0	0		0.01	0.02	0.03	0.08	0.14	0.23	0.51
TKN as N	56	3	N/A				0.2	0.25	0.38	0.63	0.9	1.28	2.06
Total Phosphorus	54	8	N/A				0.02	0.02	0.03	0.05	0.06	0.1	0.23
Metals (ug/L)													
Aluminum, total (Al)	17	0	N/A				84	92	120	255	534	2155	4337
Arsenic, total (As)	17	17	>10	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	17	17	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	17	16	>50	0	0		5	5	5	5	5	6	9
Copper, total (Cu)	17	13	>7	0	0		2	2	2	2	2	3	6
Iron, total (Fe)	17	0	>1000	13	76.5	> 99.9	614	706	956	1314	1576	3533	5990
Lead, total (Pb)	17	17	>25	0	0		5	5	5	5	5	5	5
Manganese, total (Mn)	17	0	>200	3	17.6	76.1	26	28	31	39	62	322	425
Mercury, total (Hg)	17	17	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	17	17	>25	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	17	10	>50	0	0		10	10	10	10	14	18	23
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
56	79.3		8	14.3									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TAR RIV AT NC 96 NR TAR RIVER

Station #: O0100000

Hydrologic Unit Code: 03020101

Latitude: 36.19472

Longitude: -78.58292

Stream class: WS-V NSW

Agency: NCAMBNT

NC stream index: 28-(5.7)

Time period: 02/21/2008 to 11/05/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	29	0	<4	0	0		4.1	5.1	5.9	6.8	10.2	11.7	13
	29	0	<5	2	6.9		4.1	5.1	5.9	6.8	10.2	11.7	13
pH (SU)	29	0	<6	0	0		6.1	6.1	6.5	6.9	7.2	7.5	7.8
	29	0	>9	0	0		6.1	6.1	6.5	6.9	7.2	7.5	7.8
Spec. conductance (umhos/cm at 25°C)	29	0	N/A				51	58	72	83	94	99	104
Water Temperature (°C)	29	0	>32	0	0		3.7	5.4	9.6	17.6	23.2	27.2	30.3
Other													
Hardness (mg/L)	12	0	>100	0	0		17	20	26	30	32	45	49
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	8.6	17.5	50.2	118
Turbidity (NTU)	29	0	>50	1	3.4		2.4	2.8	5.5	14	28	40	55
Nutrients (mg/L)													
NH3 as N	29	14	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.13
NO2 + NO3 as N	29	7	>10	0	0		0.02	0.02	0.02	0.06	0.16	0.22	0.36
TKN as N	29	0	N/A				0.26	0.31	0.41	0.59	0.68	0.89	0.99
Total Phosphorus	29	0	N/A				0.02	0.02	0.03	0.06	0.09	0.13	0.32
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
29	83.9		5	17.2									

Key:

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%Conf : States the percent statistical confidence that the actual percentage of exceedances is greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: FOUNDRY BRANCH AT SR 1649 NEW COMMERCE DR AT OXFORD

Station #: O0310000

Hydrologic Unit Code: 03020101

Latitude: 36.29210

Longitude: -78.58294

Stream class: C NSW

Agency: TPBA

NC stream index: 28-11-2

Time period: 01/17/2008 to 01/29/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	27	0	<4	2	7.4		1.8	4	5.3	7.7	9.8	11.9	12.9
	27	0	<5	5	18.5	87.3	1.8	4	5.3	7.7	9.8	11.9	12.9
pH (SU)	27	0	<6	0	0		6.3	6.5	6.7	6.9	7.1	7.2	7.4
	27	0	>9	0	0		6.3	6.5	6.7	6.9	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	27	0	N/A				80	90	139	182	258	316	363
Water Temperature (°C)	27	0	>32	0	0		3.9	6.5	11.6	19.4	21.3	22.6	27.2
Other													
Turbidity (NTU)	16	0	>50	1	6.2		4.6	4.7	7.9	21.5	38.5	64.5	110
Nutrients (mg/L)													
NH3 as N	16	3	N/A				0.01	0.01	0.02	0.04	0.12	0.18	0.24
NO2 + NO3 as N	16	0	N/A				0.06	0.13	0.2	0.29	0.44	0.52	0.56
TKN as N	16	0	N/A				0.33	0.37	0.46	0.83	1.13	1.27	1.49
Total Phosphorus	16	1	N/A				0.02	0.04	0.07	0.11	0.16	0.2	0.23
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
16	171		7	43.8		97.3							

Key:

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: FISHING CRK UPS SR 1607 KNOTTS GROVE RD NR OXFORD

Station #: O0320000

Hydrologic Unit Code: 03020101

Latitude: 36.27703

Longitude: -78.59113

Stream class: C NSW

Agency: TPBA

NC stream index: 28-11

Time period: 02/03/2010 to 12/17/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	50	0	<4	0	0		6.1	6.4	6.8	7.7	9.5	12.4	13.7
	50	0	<5	0	0		6.1	6.4	6.8	7.7	9.5	12.4	13.7
pH (SU)	50	0	<6	0	0		6.8	6.9	7.2	7.4	7.7	8	8.6
	50	0	>9	0	0		6.8	6.9	7.2	7.4	7.7	8	8.6
Spec. conductance (umhos/cm at 25°C)	50	0	N/A				87	127	184	238	371	577	684
Water Temperature (°C)	50	0	>32	0	0		0.8	6.6	13.3	19.3	22.7	24.3	26.4
Other													
Turbidity (NTU)	35	0	>50	3	8.6		1.7	2.1	2.8	5.2	15	58	280
Nutrients (mg/L)													
NH3 as N	35	4	N/A				0.01	0.02	0.03	0.05	0.08	0.12	0.27
NO2 + NO3 as N	35	0	N/A				0.07	0.13	0.24	0.41	0.99	3.83	4.28
TKN as N	35	0	N/A				0.24	0.37	0.52	0.88	1.38	1.54	2.86
Total Phosphorus	31	0	N/A				0.03	0.05	0.07	0.12	0.21	0.57	0.74
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
35	119.9		8	22.9		59.9							

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: FISHING CRK AT SR 1643 NR CLAY

Station #: O0600000

Hydrologic Unit Code: 03020101

Latitude: 36.22317

Longitude: -78.57568

Stream class: C NSW

Agency: NCAMBNT

NC stream index: 28-11

Time period: 02/21/2008 to 11/05/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	30	0	<4	0	0		5.5	6.7	7.3	8.8	10.8	13.2	14.3
	30	0	<5	0	0		5.5	6.7	7.3	8.8	10.8	13.2	14.3
pH (SU)	30	0	<6	0	0		6.4	6.8	7.1	7.4	7.6	7.9	8.4
	30	0	>9	0	0		6.4	6.8	7.1	7.4	7.6	7.9	8.4
Spec. conductance (umhos/cm at 25°C)	30	0	N/A				79	110	130	183	312	534	667
Water Temperature (°C)	30	0	>32	0	0		4.2	6.1	9.4	16.1	21.7	24.7	27.9
Other													
Hardness (mg/L)	13	0	N/A				28	28	36	54	58	64	67
TSS (mg/L)	21	13	N/A				6.2	6.2	6.2	6.2	11.5	44.6	54
Turbidity (NTU)	30	0	>50	4	13.3	64.7	1	2.3	3.7	7.8	29.2	79	120
Nutrients (mg/L)													
NH3 as N	30	16	N/A				0.02	0.02	0.02	0.02	0.04	0.05	0.12
NO2 + NO3 as N	30	0	N/A				0.05	0.23	0.32	0.43	0.71	1.29	1.5
TKN as N	30	0	N/A				0.37	0.38	0.46	0.6	0.74	0.82	0.95
Total Phosphorus	30	0	N/A				0.04	0.04	0.07	0.09	0.12	0.16	0.23
Metals (ug/L)													
Arsenic, dissolved (As)	20	20	>10	0	0		2	2	2	2	2	2	2
Beryllium, dissolved (Be)	20	20	>6.5	0	0		5	5	5	5	5	5	5
Cadmium, dissolved (Cd)	20	20	>2	0	0		1	1	1	1	1	1	1
Chromium, dissolved (Cr)	20	20	>50	0	0		10	10	10	10	10	10	10
Copper, dissolved (Cu)	20	1	>7	0	0		2	2	2	3	3	4	4
Lead, dissolved (Pb)	20	20	>25	0	0		2	2	2	2	10	10	10
Manganese, dissolved (Mn)	20	0	N/A				13	14	22	34	48	66	74
Nickel, dissolved (Ni)	20	18	>88	0	0		2	2	2	2	10	10	10
Zinc, dissolved (Zn)	17	2	>50	2	11.8	48.1	10	10	12	28	44	72	75
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
30	130		8	26.7		76							

Key:

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: FISHING CRK AT SR 1643 NR CLAY

Station #: O0600000

Hydrologic Unit Code: 03020101

Latitude: 36.22317 **Longitude:** -78.57568

Stream class: C NSW

Agency: NCSPST

NC stream index: 28-11

Time period: 10/11/2010 to 10/14/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Other													
Hardness (mg/L)	4	0	N/A				57	57	57	58	60	60	60
Metals (ug/L)													
Arsenic, dissolved (As)	4	4	>10	0	0		2	2	2	2	2	2	2
Beryllium, dissolved (Be)	4	4	>6.5	0	0		5	5	5	5	5	5	5
Cadmium, dissolved (Cd)	4	4	>2	0	0		1	1	1	1	1	1	1
Chromium, dissolved (Cr)	4	4	>50	0	0		10	10	10	10	10	10	10
Copper, dissolved (Cu)	4	0	>7	0	0		4	4	4	4	5	5	5
Lead, dissolved (Pb)	4	4	>25	0	0		10	10	10	10	10	10	10
Manganese, dissolved (Mn)	4	0	N/A				29	29	30	34	38	39	39
Nickel, dissolved (Ni)	4	4	>88	0	0		10	10	10	10	10	10	10
Zinc, dissolved (Zn)	4	0	>50	4	100		62	62	64	80	97	100	100

Key:

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TAR RIV AT SR 1003 SIMS BRIDGE RD NR LOUISBURG

Station #: O1025000

Hydrologic Unit Code: 03020101

Latitude: 36.14222

Longitude: -78.37218

Stream class: WS-IV NSW

Agency: TPBA

NC stream index: 28-(15.5)

Time period: 01/17/2008 to 12/17/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	73	0	<4	1	1.4		3.5	6.1	6.9	7.9	9.9	12.1	14.9
	73	0	<5	1	1.4		3.5	6.1	6.9	7.9	9.9	12.1	14.9
pH (SU)	73	0	<6	1	1.4		5.4	6.5	6.8	6.9	7.1	7.3	7.8
	73	0	>9	0	0		5.4	6.5	6.8	6.9	7.1	7.3	7.8
Spec. conductance (umhos/cm at 25°C)	73	0	N/A				54	74	87	105	118	131	175
Water Temperature (°C)	73	0	>32	0	0		0.5	5.9	11.2	20.5	24.2	26.2	28.6
Other													
TSS (mg/L)	52	7	N/A				3.1	3.1	3.8	6.7	11	26.2	77
Turbidity (NTU)	53	0	>50	4	7.5		4.5	5.2	6.9	9.9	23	38.4	90
Nutrients (mg/L)													
NH3 as N	53	14	N/A				0.01	0.01	0.02	0.04	0.08	0.13	0.35
NO2 + NO3 as N	53	5	>10	0	0		0.01	0.02	0.05	0.08	0.15	0.2	0.26
TKN as N	53	2	N/A				0.2	0.28	0.38	0.53	0.75	1.05	1.54
Total Phosphorus	49	2	N/A				0.02	0.04	0.05	0.06	0.08	0.14	0.29
Metals (ug/L)													
Aluminum, total (Al)	18	0	N/A				96	98	230	290	570	2220	2648
Arsenic, total (As)	18	18	>10	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	18	18	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	18	18	>50	0	0		5	5	5	5	5	5	5
Copper, total (Cu)	18	10	>7	0	0		2	2	2	2	3	3	4
Iron, total (Fe)	18	0	>1000	17	94.4	> 99.9	453	1047	1297	1527	1931	4439	4925
Lead, total (Pb)	18	18	>25	0	0		5	5	5	5	5	5	5
Manganese, total (Mn)	18	0	>200	5	27.8	97.2	37	60	83	112	211	411	470
Mercury, total (Hg)	18	18	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	18	18	>25	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	18	16	>50	0	0		10	10	10	10	10	13	14
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:			# > 400:		% > 400: %Conf:							
53	97.1			7		13.2							

Key:

result: number of observations

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%Conf : States the percent statistical confidence that the actual percentage of exceedances is greater than 10% (20% for Fecal Coliform)

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TABBS CRK AT SR 1100 EGYPT MOUNTAIN RD NR KITTRELL

Station #: O1030000

Hydrologic Unit Code: 03020101

Latitude: 36.18229

Longitude: -78.45562

Stream class: C NSW

Agency: TPBA

NC stream index: 28-17-(0.5)

Time period: 01/17/2008 to 12/17/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	79	0	<4	8	10.1	45.9	1.5	3.9	5	6.9	9	11.3	14.3
	79	0	<5	19	24.1	> 99.9	1.5	3.9	5	6.9	9	11.3	14.3
pH (SU)	79	0	<6	1	1.3		5.7	6.4	6.7	6.9	7	7.2	7.9
	79	0	>9	0	0		5.7	6.4	6.7	6.9	7	7.2	7.9
Spec. conductance (umhos/cm at 25°C)	79	0	N/A				53	87	101	115	127	141	183
Water Temperature (°C)	79	0	>32	0	0		0.4	6.6	12.1	20.2	23	24.6	26.2
Other													
TSS (mg/L)	54	4	N/A				1.3	3.1	5.2	9	22	42.5	84
Turbidity (NTU)	54	0	>50	4	7.4		5	6.8	8.6	13	25.8	47.5	190
Nutrients (mg/L)													
NH3 as N	54	7	N/A				0.01	0.01	0.04	0.06	0.12	0.2	0.53
NO2 + NO3 as N	54	4	N/A				0.01	0.02	0.04	0.08	0.13	0.19	0.36
TKN as N	54	3	N/A				0.2	0.3	0.45	0.56	0.86	1.23	2.55
Total Phosphorus	50	4	N/A				0.02	0.03	0.05	0.07	0.1	0.15	0.21
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
54	89.2		8	14.8									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TAR RIV AT US 401 AT LOUISBURG

Station #: O1100000

Hydrologic Unit Code: 03020101

Latitude: 36.09438

Longitude: -78.29766

Stream class: WS-V NSW

Agency: NCAMBNT

NC stream index: 28-(24.7)

Time period: 02/06/2008 to 11/27/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	29	0	<4	0	0		5.2	6.1	6.7	8.2	10.5	11.7	12.1
	29	0	<5	0	0		5.2	6.1	6.7	8.2	10.5	11.7	12.1
pH (SU)	29	0	<6	1	3.4		5.4	6.4	6.8	7.1	7.2	7.4	7.6
	29	0	>9	0	0		5.4	6.4	6.8	7.1	7.2	7.4	7.6
Spec. conductance (umhos/cm at 25°C)	29	0	N/A				63	77	88	101	110	121	151
Water Temperature (°C)	29	0	>32	0	0		4.3	6.4	8.8	17.8	24.1	28.1	29.9
Other													
Hardness (mg/L)	12	0	>100	0	0		18	20	29	31	34	35	35
TSS (mg/L)	20	8	N/A				6.2	6.2	6.2	8.1	11.5	21.4	33
Turbidity (NTU)	29	0	>50	2	6.9		3.8	5.6	8.3	12	17	50	110
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
28	84.4		1	3.6									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CEDAR CRK AT SR 1116 CEDAR CREEK RD NR FRANKLINTON

Station #: O1600000

Hydrologic Unit Code: 03020101

Latitude: 36.06615

Longitude: -78.43130

Stream class: C NSW

Agency: TPBA

NC stream index: 28-29-(2)

Time period: 01/17/2008 to 12/17/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	77	0	<4	0	0		5.8	6.7	7.1	7.8	9.9	11.5	14
	77	0	<5	0	0		5.8	6.7	7.1	7.8	9.9	11.5	14
pH (SU)	77	0	<6	0	0		6.2	6.6	6.8	7	7.2	7.4	7.6
	77	0	>9	0	0		6.2	6.6	6.8	7	7.2	7.4	7.6
Spec. conductance (umhos/cm at 25°C)	77	0	N/A				52	71	75	83	89	93	120
Water Temperature (°C)	77	0	>32	0	0		2.4	7.4	12.3	21.2	24.8	25.8	27.9
Other													
Turbidity (NTU)	52	0	>50	2	3.8		5.3	6.5	8.2	11	17.8	30.8	60
Nutrients (mg/L)													
NH3 as N	52	6	N/A				0.01	0.01	0.03	0.07	0.11	0.25	1.27
NO2 + NO3 as N	52	0	N/A				0.02	0.05	0.09	0.15	0.19	0.25	0.5
TKN as N	52	2	N/A				0.2	0.27	0.37	0.52	0.66	1.04	1.69
Total Phosphorus	51	6	N/A				0.01	0.02	0.03	0.06	0.07	0.1	0.18
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
52	68		2	3.8									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CEDAR CRK AT SR 1109 TIMBERLAKE RD NR LOUISBURG

Station #: O1920000

Hydrologic Unit Code: 03020101

Latitude: 36.06024

Longitude: -78.35373

Stream class: C NSW

Agency: TPBA

NC stream index: 28-29-(2)

Time period: 01/17/2008 to 12/17/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	74	0	<4	0	0		5.3	6.7	7.1	7.5	9.7	11.5	14.2
	74	0	<5	0	0		5.3	6.7	7.1	7.5	9.7	11.5	14.2
pH (SU)	74	0	<6	0	0		6.5	6.8	7	7.1	7.3	7.4	7.9
	74	0	>9	0	0		6.5	6.8	7	7.1	7.3	7.4	7.9
Spec. conductance (umhos/cm at 25°C)	74	0	N/A				78	146	188	238	383	442	813
Water Temperature (°C)	74	0	>32	0	0		2	7.2	12.7	20.8	24	26.1	27.9
Other													
Turbidity (NTU)	49	0	>50	4	8.2		7.1	9.9	12	15	24	45	210
Nutrients (mg/L)													
NH3 as N	49	4	N/A				0.01	0.01	0.04	0.08	0.11	0.18	0.2
NO2 + NO3 as N	49	0	N/A				0.06	0.27	0.36	0.46	0.66	0.91	1.49
TKN as N	49	2	N/A				0.2	0.29	0.47	0.59	0.89	1.2	1.77
Total Phosphorus	47	2	N/A				0.02	0.04	0.06	0.07	0.11	0.17	0.51
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
49	105.9		6	12.2									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TAR RIV AT SR 1001 NR BUNN

Station #: O2000000

Hydrologic Unit Code: 03020101

Latitude: 36.00228

Longitude: -78.24334

Stream class: WS-V NSW

Agency: NCAMBNT

NC stream index: 28-(24.7)

Time period: 02/06/2008 to 11/27/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	28	0	<4	0	0		4.1	4.4	5.7	7.4	10.3	11.4	12.1
	28	0	<5	4	14.3	69.4	4.1	4.4	5.7	7.4	10.3	11.4	12.1
pH (SU)	28	0	<6	1	3.6		5.9	6.1	6.7	7.1	7.1	7.3	7.6
	28	0	>9	0	0		5.9	6.1	6.7	7.1	7.1	7.3	7.6
Spec. conductance (umhos/cm at 25°C)	28	0	N/A				62	78	98	109	130	144	164
Water Temperature (°C)	28	0	>32	0	0		4.4	6	9.1	17.8	24.6	28	29
Other													
Hardness (mg/L)	12	0	>100	0	0		18	20	28	30	32	33	33
TSS (mg/L)	20	7	N/A				6.2	6.2	6.3	10.5	13.5	19.9	45
Turbidity (NTU)	28	0	>50	1	3.6		5.2	7.3	8.9	10.5	19.8	40.5	80
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
27	77.3		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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: TAR RIV AT SR 1001 NR BUNN

Station #: O2000000

Hydrologic Unit Code: 03020101

Latitude: 36.00228

Longitude: -78.24334

Stream class: WS-V NSW

Agency: TPBA

NC stream index: 28-(24.7)

Time period: 01/17/2008 to 12/17/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	0	0		4	5	5.6	6.6	9	11.3	14.9
	84	0	<5	6	7.1		4	5	5.6	6.6	9	11.3	14.9
pH (SU)	84	0	<6	4	4.8		5.2	6.5	6.8	7	7.1	7.4	8
	84	0	>9	0	0		5.2	6.5	6.8	7	7.1	7.4	8
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				51	78	94	112	127	142	161
Water Temperature (°C)	84	0	>32	0	0		0.7	7.1	12	21.7	25.2	27.9	29.2
Other													
Turbidity (NTU)	59	0	>50	2	3.4		7.2	8.3	9.9	15	20	38	80
Nutrients (mg/L)													
NH3 as N	59	7	N/A				0.01	0.01	0.03	0.06	0.09	0.13	0.24
NO2 + NO3 as N	59	0	>10	0	0		0.02	0.09	0.11	0.13	0.19	0.26	0.33
TKN as N	59	3	N/A				0.2	0.28	0.43	0.58	0.83	1.02	1.61
Total Phosphorus	55	3	N/A				0.02	0.04	0.05	0.06	0.09	0.14	0.47
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
59	84.8		3	5.1									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CROOKED CRK AT SR 1719 BUNN ELEMENTARY SCHOOL RD NR BUNN

Station #: O2015000

Hydrologic Unit Code: 03020101

Latitude: 35.94504

Longitude: -78.26054

Stream class: C NSW

Agency: TPBA

NC stream index: 28-30

Time period: 01/17/2008 to 12/17/2012

	#	#		Results not meeting EL			Percentiles						
Field	results	ND	EL	#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	85	0	<4	46	54.1	> 99.9	0.1	1.5	2.4	3.6	7	9	14
	85	0	<5	54	63.5	> 99.9	0.1	1.5	2.4	3.6	7	9	14
pH (SU)	85	0	<6	1	1.2		5.8	6.3	6.4	6.6	6.8	6.9	7.1
	85	0	>9	0	0		5.8	6.3	6.4	6.6	6.8	6.9	7.1
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				51	58	65	79	99	112	170
Water Temperature (°C)	85	0	>32	0	0		3.1	8.2	14.6	22.9	26.2	27.3	29.7
Other													
Turbidity (NTU)	60	0	>50	0	0		2.8	3.6	5.2	7.1	13	22	34
Nutrients (mg/L)													
NH3 as N	60	12	N/A				0.01	0.01	0.02	0.05	0.08	0.15	0.2
NO2 + NO3 as N	60	45	N/A				0.01	0.01	0.01	0.01	0.02	0.04	0.09
TKN as N	60	2	N/A				0.2	0.3	0.44	0.68	0.93	1.18	1.62
Total Phosphorus	56	3	N/A				0.02	0.04	0.05	0.07	0.12	0.17	0.35

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
60	86.2	8	13.3

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CROOKED CRK AT NC 98 NR BUNN

Station #: O2020000

Hydrologic Unit Code: 03020101

Latitude: 35.93863

Longitude: -78.20892

Stream class: C NSW

Agency: TPBA

NC stream index: 28-30

Time period: 01/17/2008 to 12/17/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	26	30.6	> 99.9	1.4	2.7	3.8	5.1	8	10.2	13.6
	85	0	<5	40	47.1	> 99.9	1.4	2.7	3.8	5.1	8	10.2	13.6
pH (SU)	85	0	<6	1	1.2		5.9	6.3	6.5	6.7	6.9	7	7.2
	85	0	>9	0	0		5.9	6.3	6.5	6.7	6.9	7	7.2
Spec. conductance (umhos/cm at 25°C)	84	1	N/A				50	64	72	84	105	124	167
Water Temperature (°C)	85	0	>32	0	0		2.7	8.8	14.2	23.2	27.2	28.6	31.6
Other													
Turbidity (NTU)	60	0	>50	1	1.7		4.1	5.4	6.4	8.2	12	18.7	100
Nutrients (mg/L)													
NH3 as N	60	10	N/A				0.01	0.01	0.02	0.05	0.11	0.18	0.62
NO2 + NO3 as N	60	33	N/A				0.01	0.01	0.01	0.02	0.03	0.05	0.11
TKN as N	60	1	N/A				0.2	0.45	0.59	0.78	0.98	1.28	3.6
Total Phosphorus	56	2	N/A				0.02	0.05	0.07	0.08	0.11	0.17	1.04
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
60	63.4		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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TAR RIV AT SR 1145 OLD SPRING HOPE RD NR SPRING HOPE

Station #: O2101000

Hydrologic Unit Code: 03020101

Latitude: 35.90506

Longitude: -78.11319

Stream class: WS-V NSW

Agency: TPBA

NC stream index: 28-(24.7)

Time period: 01/23/2008 to 12/06/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	0	0		4.2	5.2	5.9	7.4	9.6	11.9	15.1
	84	0	<5	5	6		4.2	5.2	5.9	7.4	9.6	11.9	15.1
pH (SU)	85	0	<6	5	5.9		5	6.2	6.6	6.9	7.2	7.4	8.1
	85	0	>9	0	0		5	6.2	6.6	6.9	7.2	7.4	8.1
Spec. conductance (umhos/cm at 25°C)	85	1	N/A				50	78	86	99	114	127	164
Water Temperature (°C)	85	0	>32	0	0		0.1	6.9	11.3	21.2	25.4	26.9	29.4
Other													
Turbidity (NTU)	60	0	>50	4	6.7		3.7	6	7.9	11	16	35	140
Nutrients (mg/L)													
NH3 as N	60	12	N/A				0.01	0.01	0.01	0.05	0.1	0.15	0.51
NO2 + NO3 as N	60	3	>10	0	0		0.01	0.02	0.08	0.13	0.18	0.23	0.35
TKN as N	60	1	N/A				0.2	0.36	0.42	0.55	0.78	1.08	1.68
Total Phosphorus	57	7	N/A				0.02	0.02	0.03	0.07	0.1	0.18	0.66
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
60	56.1		5	8.3									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TAR RIV AT NC 581 NR STANHOPE

Station #: O2102000

Hydrologic Unit Code: 03020101

Latitude: 35.88205

Longitude: -78.08932

Stream class: WS-V NSW

Agency: TPBA

NC stream index: 28-(24.7)

Time period: 01/23/2008 to 12/06/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	0	0		4.6	5.1	6	7.2	9.5	11.9	15
	84	0	<5	4	4.8		4.6	5.1	6	7.2	9.5	11.9	15
pH (SU)	85	0	<6	2	2.4		5.6	6.5	6.8	7	7.1	7.3	7.6
	85	0	>9	0	0		5.6	6.5	6.8	7	7.1	7.3	7.6
Spec. conductance (umhos/cm at 25°C)	85	1	N/A				50	77	84	103	115	128	166
Water Temperature (°C)	85	0	>32	0	0		0.1	6.9	11.3	21	25.2	26.8	29.3
Other													
Turbidity (NTU)	60	0	>50	4	6.7		3.1	5.4	7.3	11	15.5	31.3	150
Nutrients (mg/L)													
NH3 as N	60	8	N/A				0.01	0.01	0.02	0.05	0.08	0.15	0.2
NO2 + NO3 as N	60	3	>10	0	0		0.01	0.03	0.07	0.15	0.21	0.25	0.36
TKN as N	60	1	N/A				0.2	0.35	0.44	0.58	0.86	1.16	1.56
Total Phosphorus	57	5	N/A				0.02	0.02	0.05	0.08	0.09	0.22	0.6
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
60	52.4		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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TAR RIV AT SR 1981 TAR RIVER CHURCH RD NR CLIFTONVILLE

Station #: O2140000

Hydrologic Unit Code: 03020101

Latitude: 35.84663

Longitude: -77.96394

Stream class: WS-IV NSW CA

Agency: TPBA

NC stream index: 28-(35.5)

Time period: 01/23/2008 to 12/06/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	4	4.8		2	4.4	5.4	6.5	8.9	12	14.3
	84	0	<5	13	15.5	92.5	2	4.4	5.4	6.5	8.9	12	14.3
pH (SU)	85	0	<6	3	3.5		5.5	6.5	6.8	7	7.2	7.3	7.9
	85	0	>9	0	0		5.5	6.5	6.8	7	7.2	7.3	7.9
Spec. conductance (umhos/cm at 25°C)	85	1	N/A				50	75	86	101	116	128	149
Water Temperature (°C)	85	0	>32	0	0		0.8	7.3	12.3	22	26.7	28.9	29.9
Other													
Turbidity (NTU)	60	0	>50	4	6.7		4.7	6.5	8.5	13	18.8	44.4	190
Nutrients (mg/L)													
NH3 as N	60	6	N/A				0.01	0.01	0.04	0.05	0.09	0.16	0.37
NO2 + NO3 as N	60	2	>10	0	0		0.01	0.05	0.09	0.18	0.23	0.27	0.48
TKN as N	60	1	N/A				0.2	0.35	0.49	0.67	0.92	1.27	2.06
Total Phosphorus	57	4	N/A				0.02	0.02	0.05	0.07	0.14	0.19	0.61
Metals (ug/L)													
Aluminum, total (Al)	17	0	N/A				100	152	197	454	1432	3273	7274
Arsenic, total (As)	17	17	>10	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	17	17	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	17	16	>50	0	0		5	5	5	5	5	6	8
Copper, total (Cu)	17	5	>7	1	5.9		2	2	2	2	3	4	10
Iron, total (Fe)	17	0	>1000	16	94.1	> 99.9	640	1274	1511	1822	2568	2922	3204
Lead, total (Pb)	17	16	>25	0	0		5	5	5	5	5	5	5
Manganese, total (Mn)	17	0	>200	7	41.2	99.9	72	81	102	127	255	468	817
Mercury, total (Hg)	17	17	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	17	17	>25	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	17	14	>50	0	0		10	10	10	10	10	17	25
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
60	83.3		11	18.3									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SAPONY CRK AT SR 1704 BATCHELOR DR NR NASHVILLE

Station #: O2320000

Hydrologic Unit Code: 03020101

Latitude: 35.93201

Longitude: -77.93478

Stream class: WS-IV NSW

Agency: TPBA

NC stream index: 28-55-(5.5)

Time period: 01/23/2008 to 12/06/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	38	45.2	> 99.9	0.5	1.1	2.2	4.2	6.3	9.2	11.8
	84	0	<5	52	61.9	> 99.9	0.5	1.1	2.2	4.2	6.3	9.2	11.8
pH (SU)	85	0	<6	4	4.7		2.2	6.1	6.5	6.7	6.9	7	8.4
	85	0	>9	0	0		2.2	6.1	6.5	6.7	6.9	7	8.4
Spec. conductance (umhos/cm at 25°C)	85	1	N/A				50	80	90	104	123	134	156
Water Temperature (°C)	85	0	>32	0	0		0.5	7.3	11.9	19.5	24	25.5	27.7
Other													
Turbidity (NTU)	60	0	>50	0	0		3.7	5.2	7.1	11	17	23.9	45

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
60	132.2	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TAR RIV AT US 301 BYP AT ROCKY MOUNT

Station #: O2360000

Hydrologic Unit Code: 03020101

Latitude: 35.92572

Longitude: -77.83067

Stream class: WS-IV NSW

Agency: TPBA

NC stream index: 28-(64.5)

Time period: 01/23/2008 to 12/06/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	7	8.3		3.2	4	4.7	6.7	9	11.8	14.2
	84	0	<5	27	32.1	> 99.9	3.2	4	4.7	6.7	9	11.8	14.2
pH (SU)	85	0	<6	2	2.4		5.1	6.6	6.8	7	7.1	7.2	8.1
	85	0	>9	0	0		5.1	6.6	6.8	7	7.1	7.2	8.1
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				56	74	81	92	110	120	126
Water Temperature (°C)	85	0	>32	0	0		0.8	8	12.8	22.1	26.8	28.8	31.1
Other													
TSS (mg/L)	60	16	N/A				1	1	3.1	3.6	6	15.8	29
Turbidity (NTU)	60	0	>50	3	5		1.8	2.9	4.6	7.6	14.8	24	60
Nutrients (mg/L)													
NH3 as N	60	7	N/A				0.01	0.01	0.04	0.08	0.1	0.13	0.18
NO2 + NO3 as N	60	2	>10	0	0		0.01	0.07	0.11	0.15	0.2	0.28	0.99
TKN as N	60	1	N/A				0.2	0.46	0.58	0.74	0.96	1.27	2.36
Total Phosphorus	57	5	N/A				0.02	0.02	0.04	0.06	0.09	0.14	0.63
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
60	46.2		7	11.7									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: STONY CRK AT WINSTEAD AVE NR LITTLE EASONBURG

Station #: O3140000

Hydrologic Unit Code: 03020101

Latitude: 35.96880

Longitude: -77.84967

Stream class: C NSW

Agency: TPBA

NC stream index: 28-68

Time period: 01/23/2008 to 12/06/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	81	0	<4	17	21	99.8	2	3	4.4	5.8	7.9	10.5	13.6
	81	0	<5	23	28.4	> 99.9	2	3	4.4	5.8	7.9	10.5	13.6
pH (SU)	82	0	<6	6	7.3		4.6	6.2	6.6	6.8	7	7.2	9.1
	82	0	>9	1	1.2		4.6	6.2	6.6	6.8	7	7.2	9.1
Spec. conductance (umhos/cm at 25°C)	82	0	N/A				51	72	82	96	109	115	137
Water Temperature (°C)	82	0	>32	0	0		0.4	7.6	12.2	20.5	24.3	26	28.3
Other													
TSS (mg/L)	58	13	N/A				1	1.7	2.4	3.3	5.9	19	60
Turbidity (NTU)	58	0	>50	3	5.2		3.2	4.3	5.9	8	15	24.7	75
Nutrients (mg/L)													
NH3 as N	58	6	N/A				0.01	0.01	0.03	0.06	0.08	0.14	0.35
NO2 + NO3 as N	58	1	N/A				0.01	0.1	0.15	0.22	0.33	0.39	0.55
TKN as N	58	1	N/A				0.2	0.56	0.62	0.81	1.07	1.52	2.09
Total Phosphorus	55	3	N/A				0.02	0.04	0.07	0.09	0.14	0.19	0.61
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
58	159.7		16	27.6		89.7							

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TAR RIV AT NC 97 AT ROCKY MOUNT

Station #: O3180000

Hydrologic Unit Code: 03020101

Latitude: 35.95438

Longitude: -77.78740

Stream class: C NSW

Agency: NCAMBNT

NC stream index: 28-(69)

Time period: 02/19/2008 to 11/01/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	29	0	<4	1	3.4		3.8	4.8	6.4	8.4	10.3	12.1	12.8
	29	0	<5	3	10.3	43.4	3.8	4.8	6.4	8.4	10.3	12.1	12.8
pH (SU)	28	0	<6	1	3.6		5.9	6.4	6.7	7	7.2	7.5	7.8
	28	0	>9	0	0		5.9	6.4	6.7	7	7.2	7.5	7.8
Spec. conductance (umhos/cm at 25°C)	29	0	N/A				69	76	82	97	105	114	136
Water Temperature (°C)	29	0	>32	1	3.4		4.5	6.8	11.8	19.6	26.3	29.5	32.2
Other													
Hardness (mg/L)	12	0	N/A				20	21	24	27	28	30	31
TSS (mg/L)	20	15	N/A				6.2	6.2	6.2	6.2	8.2	11.9	26
Turbidity (NTU)	29	0	>50	0	0		1.3	2.5	3.8	8.6	11.5	18	24
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
29	64		3	10.3									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TAR RIV AT SR 1250 SPRINGFIELD RD AT ROCKY MOUNT

Station #: O3189000

Hydrologic Unit Code: 03020101

Latitude: 35.97789

Longitude: -77.75769

Stream class: C NSW

Agency: TPBA

NC stream index: 28-(69)

Time period: 01/23/2008 to 07/12/2012

	#	#	Results not meeting EL				Percentiles						
	results	ND	EL	#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	76	0	<4	0	0		4.7	5.5	6	7.2	10	12.1	14
	76	0	<5	3	3.9		4.7	5.5	6	7.2	10	12.1	14
pH (SU)	77	0	<6	1	1.3		5.9	6.5	6.8	7	7.1	7.3	7.7
	77	0	>9	0	0		5.9	6.5	6.8	7	7.1	7.3	7.7
Spec. conductance (umhos/cm at 25°C)	76	0	N/A				61	76	84	96	115	120	164
Water Temperature (°C)	77	0	>32	0	0		2.6	8	13	22.2	26.6	28.7	31.1
Other													
TSS (mg/L)	55	11	N/A				1	1.4	3.1	4.1	9	34.8	65
Turbidity (NTU)	55	0	>50	3	5.5		2.6	3.2	5.3	8.9	16	37.4	75
Nutrients (mg/L)													
NH3 as N	55	6	N/A				0.01	0.01	0.03	0.06	0.1	0.17	0.57
NO2 + NO3 as N	55	0	N/A				0.04	0.08	0.14	0.19	0.25	0.3	0.41
TKN as N	55	1	N/A				0.2	0.4	0.55	0.7	1.04	1.25	3.03
Total Phosphorus	52	2	N/A				0.02	0.03	0.05	0.08	0.11	0.15	0.61
Metals (ug/L)													
Aluminum, total (Al)	17	1	N/A				50	79	168	330	946	1558	1948
Arsenic, total (As)	17	17	>10	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	17	17	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	17	17	>50	0	0		5	5	5	5	5	5	5
Copper, total (Cu)	17	5	>7	0	0		2	2	2	3	3	3	4
Iron, total (Fe)	17	0	>1000	15	88.2	> 99.9	447	820	1188	1660	2390	4400	8710
Lead, total (Pb)	17	17	>25	0	0		5	5	5	5	5	5	5
Manganese, total (Mn)	17	0	N/A				63	73	94	120	187	443	773
Mercury, total (Hg)	17	17	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	17	17	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	17	11	>50	0	0		10	10	10	10	14	26	34
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
55	93.2		11	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TAR RIV AT SR 1252 NR HARTSEASE

Station #: O3600000

Hydrologic Unit Code: 03020101

Latitude: 35.94090

Longitude: -77.65511

Stream class: WS-IV NSW

Agency: NCAMBNT

NC stream index: 28-(74)

Time period: 02/19/2008 to 11/01/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	29	0	<4	0	0		5.1	5.4	6.2	8.2	9.9	11.7	12.5
	29	0	<5	0	0		5.1	5.4	6.2	8.2	9.9	11.7	12.5
pH (SU)	28	0	<6	0	0		6	6.5	6.8	7.1	7.4	7.5	8.3
	28	0	>9	0	0		6	6.5	6.8	7.1	7.4	7.5	8.3
Spec. conductance (umhos/cm at 25°C)	29	0	N/A				72	82	94	114	130	186	210
Water Temperature (°C)	29	0	>32	0	0		4.8	6.9	12.3	19.5	25.8	29	31.9
Other													
Hardness (mg/L)	12	0	>100	0	0		22	22	28	29	32	41	43
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	6.7	15.5	25.9	58
Turbidity (NTU)	29	0	>50	0	0		1.7	2.4	3.4	11	16	20	36
Nutrients (mg/L)													
NH3 as N	29	5	N/A				0.02	0.02	0.02	0.03	0.05	0.06	0.08
NO2 + NO3 as N	29	0	>10	0	0		0.16	0.21	0.28	0.41	0.54	0.71	1
TKN as N	29	0	N/A				0.43	0.47	0.5	0.58	0.63	0.76	0.83
Total Phosphorus	29	0	N/A				0.05	0.06	0.08	0.09	0.11	0.17	0.18
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
29	65.3		2	6.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TAR RIV AT SR 1252 NR HARTSEASE

Station #: O3600000

Hydrologic Unit Code: 03020101

Latitude: 35.94090

Longitude: -77.65511

Stream class: WS-IV NSW

Agency: TPBA

NC stream index: 28-(74)

Time period: 01/23/2008 to 12/06/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	0	0		5.1	5.8	6.6	7.2	9.6	11.8	13.4
	84	0	<5	0	0		5.1	5.8	6.6	7.2	9.6	11.8	13.4
pH (SU)	85	0	<6	1	1.2		5.2	6.7	6.8	7.1	7.2	7.5	7.7
	85	0	>9	0	0		5.2	6.7	6.8	7.1	7.2	7.5	7.7
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				56	90	99	121	153	180	212
Water Temperature (°C)	85	0	>32	0	0		2.6	8.9	13.1	22.1	26.4	28.3	31.3
Other													
TSS (mg/L)	60	11	N/A				1	1.3	2.9	6	13.5	32.3	168
Turbidity (NTU)	60	0	>50	4	6.7		1.8	2.4	4.7	8.2	15.8	26.5	190
Nutrients (mg/L)													
NH3 as N	60	7	N/A				0.01	0.01	0.03	0.06	0.09	0.17	0.45
NO2 + NO3 as N	60	0	>10	0	0		0.12	0.21	0.34	0.5	0.68	0.85	1.07
TKN as N	60	1	N/A				0.2	0.45	0.56	0.73	0.98	1.39	2.43
Total Phosphorus	57	2	N/A				0.02	0.04	0.07	0.1	0.13	0.19	0.59
Metals (ug/L)													
Aluminum, total (Al)	17	1	N/A				50	84	166	401	732	1603	2341
Arsenic, total (As)	17	17	>10	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	17	17	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	17	17	>50	0	0		5	5	5	5	5	5	5
Copper, total (Cu)	17	4	>7	0	0		2	2	2	2	3	4	5
Iron, total (Fe)	17	0	>1000	13	76.5	> 99.9	272	675	998	1609	2028	2930	3616
Lead, total (Pb)	17	17	>25	0	0		5	5	5	5	5	5	5
Manganese, total (Mn)	17	0	>200	2	11.8	48.1	52	54	82	103	150	252	265
Mercury, total (Hg)	17	17	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	17	17	>25	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	17	9	>50	0	0		10	10	10	10	16	26	32
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
60	99.5		11	18.3									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SANDY CRK AT SR 1432 NR GUPTON

Station #: O3830000

Hydrologic Unit Code: 03020101

Latitude: 36.17785

Longitude: -78.19089

Stream class: B NSW +

Agency: NCAMBNT

NC stream index: 28-78-1-(8)

Time period: 02/06/2008 to 11/27/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	28	0	<4	0	0		5.3	6.4	6.9	8.6	10.4	12	12.4
	28	0	<5	0	0		5.3	6.4	6.9	8.6	10.4	12	12.4
pH (SU)	29	0	<6	1	3.4		5.6	6.5	6.9	7.1	7.3	7.4	7.5
	29	0	>9	0	0		5.6	6.5	6.9	7.1	7.3	7.4	7.5
Spec. conductance (umhos/cm at 25°C)	29	0	N/A				57	64	74	80	92	105	115
Water Temperature (°C)	29	0	>32	0	0		3.5	5.7	9.6	17.3	24.6	27	28.2
Other													
Hardness (mg/L)	12	0	N/A				14	15	19	24	32	45	50
TSS (mg/L)	20	20	N/A				6.2	6.2	6.2	6.2	6.2	6.2	12
Turbidity (NTU)	29	0	>50	0	0		2.2	2.9	3.7	5.3	6.5	13	30
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
28	29.1		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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SWIFT CRK AT SR 1310 AT HILLIARDSTON

Station #: O3870000

Hydrologic Unit Code: 03020101

Latitude: 36.11175

Longitude: -77.92122

Stream class: C ORW NSW

Agency: NCAMBNT

NC stream index: 28-78-(0.5)

Time period: 02/19/2008 to 11/01/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	29	0	<4	0	0		4	5.1	6.2	7.9	10.3	11.6	12.4
	29	0	<5	2	6.9		4	5.1	6.2	7.9	10.3	11.6	12.4
pH (SU)	28	0	<6	0	0		6.1	6.2	6.8	7	7.2	7.3	7.4
	28	0	>9	0	0		6.1	6.2	6.8	7	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	29	0	N/A				60	62	72	77	85	94	96
Water Temperature (°C)	29	0	>32	0	0		3.4	5.2	9.6	16	23.3	26.1	26.8
Other													
Hardness (mg/L)	12	0	N/A				17	17	20	24	26	29	30
TSS (mg/L)	20	12	N/A				6.2	6.2	6.2	6.2	11	29.4	51
Turbidity (NTU)	29	0	>50	1	3.4		3.2	3.7	4.9	8.2	12.5	26	55
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
28	104.3		3	10.7									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: SWIFT CRK AT SR 1253 NR LEGGETT

Station #: O4000000

Hydrologic Unit Code: 03020101

Latitude: 35.96679

Longitude: -77.58535

Stream class: WS-IV NSW

Agency: NCAMBNT

NC stream index: 28-78-(6.5)

Time period: 02/19/2008 to 11/01/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	29	0	<4	0	0		4.3	4.7	6	7.5	9.9	11.4	12.1
	29	0	<5	3	10.3	43.4	4.3	4.7	6	7.5	9.9	11.4	12.1
pH (SU)	28	0	<6	0	0		6	6.4	6.7	7	7.1	7.3	7.3
	28	0	>9	0	0		6	6.4	6.7	7	7.1	7.3	7.3
Spec. conductance (umhos/cm at 25°C)	29	0	N/A				72	79	88	101	106	114	130
Water Temperature (°C)	29	0	>32	0	0		3.8	5.3	11	17.5	24.6	26.9	28.5
Other													
Hardness (mg/L)	12	0	>100	0	0		21	22	26	32	37	41	42
TSS (mg/L)	20	15	N/A				6.2	6.2	6.2	6.2	6.7	12.9	15
Turbidity (NTU)	29	0	>50	0	0		2.3	2.8	4.2	5.1	7.7	9.8	16
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
29	65.7		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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TAR RIV AT NC 33 NR TARBORO

Station #: O4100000

Hydrologic Unit Code: 03020101

Latitude: 35.92844

Longitude: -77.54984

Stream class: WS-IV NSW

Agency: TPBA

NC stream index: 28-(74)

Time period: 01/23/2008 to 12/06/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	0	0		4.8	5.8	6.5	7.2	10	11.7	13.9
	84	0	<5	2	2.4		4.8	5.8	6.5	7.2	10	11.7	13.9
pH (SU)	85	0	<6	2	2.4		5.9	6.6	6.7	6.9	7.3	7.5	8.1
	85	0	>9	0	0		5.9	6.6	6.7	6.9	7.3	7.5	8.1
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				69	90	96	120	148	174	232
Water Temperature (°C)	85	0	>32	0	0		1.7	8.5	12.9	22.4	26.6	29.3	31.8
Other													
Turbidity (NTU)	60	0	>50	2	3.3		1.8	3.3	4.7	9.2	17	30.7	120
Nutrients (mg/L)													
NH3 as N	60	10	N/A				0.01	0.01	0.03	0.06	0.09	0.15	0.79
NO2 + NO3 as N	60	0	>10	0	0		0.09	0.17	0.27	0.4	0.52	0.65	0.97
TKN as N	60	1	N/A				0.2	0.42	0.55	0.77	1.05	1.59	2.31
Total Phosphorus	57	2	N/A				0.02	0.04	0.06	0.09	0.13	0.28	0.6
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
60	70.9		7	11.7									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: FISHING CRK AT SR 1001 DR KING BLVD NR WARRENTON

Station #: O4300000

Hydrologic Unit Code: 03020102

Latitude: 36.38402

Longitude: -78.18135

Stream class: C NSW

Agency: TPBA

NC stream index: 28-79-(1)

Time period: 01/16/2008 to 12/10/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	28	32.9	> 99.9	0.4	2.5	3.3	5.5	8.3	11.3	13.8
pH (SU)	85	0	<5	35	41.2	> 99.9	0.4	2.5	3.3	5.5	8.3	11.3	13.8
	85	0	<6	7	8.2		3.3	6.1	6.5	6.7	7	7.6	8.1
	85	0	>9	0	0		3.3	6.1	6.5	6.7	7	7.6	8.1
Spec. conductance (umhos/cm at 25°C)	84	1	N/A				50	62	74	85	104	122	163
Water Temperature (°C)	85	0	>32	0	0		0.2	4	10.2	19	22.7	24.2	25.9
Other													
Turbidity (NTU)	60	0	>50	1	1.7		5.5	6.9	8.7	12	14	19.9	55
Nutrients (mg/L)													
NH3 as N	60	10	N/A				0.01	0.01	0.03	0.06	0.1	0.17	0.48
NO2 + NO3 as N	60	14	N/A				0.01	0.01	0.02	0.03	0.08	0.14	0.24
TKN as N	60	3	N/A				0.2	0.26	0.35	0.42	0.61	0.85	1.33
Total Phosphorus	57	9	N/A				0.02	0.02	0.03	0.04	0.07	0.08	0.54

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
60	48.4	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: FISHING CRK AT SR 1600 BALTIMORE RD NR WARRENTON

Station #: O4400500

Hydrologic Unit Code: 03020102

Latitude: 36.35735

Longitude: -78.14494

Stream class: C NSW

Agency: TPBA

NC stream index: 28-79-(1)

Time period: 01/16/2008 to 12/10/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	72	0	<4	9	12.5	70.8	2.1	3.8	6	7.6	10.5	12.7	14.2
	72	0	<5	11	15.3	89.8	2.1	3.8	6	7.6	10.5	12.7	14.2
pH (SU)	72	0	<6	2	2.8		5.2	6.4	6.7	6.9	7.1	7.3	7.9
	72	0	>9	0	0		5.2	6.4	6.7	6.9	7.1	7.3	7.9
Spec. conductance (umhos/cm at 25°C)	72	0	N/A				62	78	87	110	138	209	298
Water Temperature (°C)	72	0	>32	0	0		0.4	4.2	10.1	18.1	22.9	24.6	25.8
Other													
Turbidity (NTU)	52	0	>50	0	0		3.2	4.5	5.6	7	9.4	14	45
Nutrients (mg/L)													
NH3 as N	52	7	N/A				0.01	0.01	0.03	0.05	0.08	0.15	0.44
NO2 + NO3 as N	52	0	N/A				0.05	0.07	0.13	0.28	0.68	0.84	1.86
TKN as N	52	4	N/A				0.2	0.22	0.32	0.47	0.69	0.91	2.47
Total Phosphorus	49	1	N/A				0.02	0.04	0.05	0.08	0.11	0.13	0.67
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
52	71.6		3	5.8									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: FISHING CRK AT SR 1609 POWELLS MILL RD NR WARRENTON

Station #: O4403000

Hydrologic Unit Code: 03020102

Latitude: 36.33930

Longitude: -78.12880

Stream class: C NSW

Agency: TPBA

NC stream index: 28-79-(1)

Time period: 07/02/2010 to 09/30/2010

	#	#		Results not meeting EL			Percentiles						
Field	results	ND	EL	#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
D.O. (mg/L)	6	0	<4	0	0		4.9	4.9	5.5	5.9	6.9	7.6	7.6
	6	0	<5	1	16.7		4.9	4.9	5.5	5.9	6.9	7.6	7.6
pH (SU)	6	0	<6	0	0		6.1	6.1	6.6	7.1	7.1	7.1	7.1
	6	0	>9	0	0		6.1	6.1	6.6	7.1	7.1	7.1	7.1
Spec. conductance (umhos/cm at 25°C)	6	0	N/A				99	99	120	138	169	171	171
Water Temperature (°C)	6	0	>32	0	0		18.7	18.7	18.8	21.1	24.5	25.3	25.3
Other													
Turbidity (NTU)	3	0	>50	0	0		3.7	3.7	3.7	5.3	10	10	10
Nutrients (mg/L)													
NH3 as N	3	0	N/A				0.05	0.05	0.05	0.07	0.13	0.13	0.13
NO2 + NO3 as N	3	0	N/A				0.16	0.16	0.16	0.24	0.24	0.24	0.24
TKN as N	3	0	N/A				0.36	0.36	0.36	0.69	0.88	0.88	0.88
Total Phosphorus	3	0	N/A				0.07	0.07	0.07	0.08	0.08	0.08	0.08
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
3	105.6		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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: FISHING CRK AT NC 561 NR WOOD

Station #: O4480000

Hydrologic Unit Code: 03020102

Latitude: 36.20105

Longitude: -78.00401

Stream class: WS-V NSW

Agency: TPBA

NC stream index: 28-79-(21)

Time period: 01/16/2008 to 12/10/2012

	#	#	Results not meeting EL				Percentiles						
	results	ND	EL	#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	2	2.4		3.7	4.6	5.8	7.3	9.9	12	13.8
	85	0	<5	11	12.9	77.1	3.7	4.6	5.8	7.3	9.9	12	13.8
pH (SU)	85	0	<6	2	2.4		5.4	6.6	6.9	7.1	7.2	7.4	8.2
	85	0	>9	0	0		5.4	6.6	6.9	7.1	7.2	7.4	8.2
Spec. conductance (umhos/cm at 25°C)	85	1	N/A				50	70	77	92	104	116	143
Water Temperature (°C)	85	0	>32	0	0		0.1	4.5	10	18.7	23.1	24.5	26.5
Other													
TSS (mg/L)	60	16	N/A				1.3	2.4	3.1	4	5.8	7.6	80
Turbidity (NTU)	60	0	>50	0	0		5.2	6.1	7	9	11.8	18.9	36
Nutrients (mg/L)													
NH3 as N	60	7	N/A				0.01	0.01	0.02	0.05	0.08	0.16	0.44
NO2 + NO3 as N	60	4	>10	0	0		0.01	0.02	0.03	0.08	0.12	0.16	0.25
TKN as N	60	4	N/A				0.13	0.21	0.29	0.46	0.71	0.91	1.46
Total Phosphorus	57	7	N/A				0.02	0.02	0.03	0.06	0.09	0.13	0.57
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
60	60.2		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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: LITTLE FISHING CRK AT NC 481 NR WHITE OAK

Station #: O4630000

Hydrologic Unit Code: 03020102

Latitude: 36.18620

Longitude: -77.87601

Stream class: C NSW

Agency: TPBA

NC stream index: 28-79-25

Time period: 01/16/2008 to 12/10/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	7	8.2		1.9	4.2	5.1	7	9.6	12.1	13.9
	85	0	<5	18	21.2	99.8	1.9	4.2	5.1	7	9.6	12.1	13.9
pH (SU)	85	0	<6	2	2.4		5.7	6.6	6.7	6.9	7	7.2	7.5
	85	0	>9	0	0		5.7	6.6	6.7	6.9	7	7.2	7.5
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				53	67	76	88	104	114	131
Water Temperature (°C)	85	0	>32	0	0		0.1	4.9	10.7	18.9	23.6	25.2	27.1
Other													
TSS (mg/L)	60	24	N/A				1	1.3	2.8	3.3	4.8	9.9	18
Turbidity (NTU)	60	0	>50	0	0		1.3	4.4	5.4	7.5	11	14	27
Nutrients (mg/L)													
NH3 as N	60	12	N/A				0.01	0.01	0.02	0.05	0.07	0.14	0.44
NO2 + NO3 as N	60	6	N/A				0.01	0.01	0.04	0.05	0.11	0.12	0.38
TKN as N	60	1	N/A				0.2	0.25	0.38	0.53	0.79	1.08	1.53
Total Phosphorus	57	7	N/A				0.02	0.02	0.04	0.05	0.07	0.15	0.55
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
60	62.9		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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: FISHING CRK AT SR 1222 BELLAMY MILL RD NR ENFIELD

Station #: O4670000

Hydrologic Unit Code: 03020102

Latitude: 36.15490

Longitude: -77.74036

Stream class: WS-IV NSW

Agency: TPBA

NC stream index: 28-79-(25.5)

Time period: 01/16/2008 to 12/10/2012

	#	#		Results not meeting EL			Percentiles						
	results	ND	EL	#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	1	1.2		3.8	4.8	5.6	7.3	10	12.4	13.7
	85	0	<5	13	15.3	92	3.8	4.8	5.6	7.3	10	12.4	13.7
pH (SU)	85	0	<6	0	0		6	6.6	6.7	6.9	7.1	7.3	7.8
	85	0	>9	0	0		6	6.6	6.7	6.9	7.1	7.3	7.8
Spec. conductance (umhos/cm at 25°C)	85	1	N/A				50	72	82	91	103	116	126
Water Temperature (°C)	85	0	>32	0	0		0.9	6.2	11.1	20.9	27	28	31
Other													
Turbidity (NTU)	60	0	>50	0	0		1.3	4	5.3	7	10	16.8	23
Nutrients (mg/L)													
NH3 as N	60	12	N/A				0.01	0.01	0.03	0.06	0.12	0.2	0.47
NO2 + NO3 as N	60	1	>10	0	0		0.01	0.03	0.06	0.1	0.14	0.19	0.28
TKN as N	60	1	N/A				0.2	0.27	0.37	0.49	0.8	1.11	1.42
Total Phosphorus	57	7	N/A				0.02	0.02	0.04	0.05	0.09	0.13	0.63

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
60	32	3	5

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: FISHING CRK AT US 301 NR ENFIELD

Station #: O4680000

Hydrologic Unit Code: 03020102

Latitude: 36.15094

Longitude: -77.69267

Stream class: C NSW

Agency: NCAMBNT

NC stream index: 28-79-(29)

Time period: 02/19/2008 to 11/01/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	29	0	<4	1	3.4		3.5	4	6	8.1	10.4	11.9	12.9
	29	0	<5	4	13.8	67	3.5	4	6	8.1	10.4	11.9	12.9
pH (SU)	28	0	<6	2	7.1		5.8	6	6.7	7	7.1	7.2	7.4
	28	0	>9	0	0		5.8	6	6.7	7	7.1	7.2	7.4
Spec. conductance (umhos/cm at 25°C)	29	0	N/A				63	66	77	85	98	104	113
Water Temperature (°C)	29	0	>32	0	0		3.1	5.3	9.6	17	25	28.8	29.2
Other													
Hardness (mg/L)	12	0	N/A				13	15	22	27	31	37	38
TSS (mg/L)	20	16	N/A				6.2	6.2	6.2	6.2	6.2	20	24
Turbidity (NTU)	29	0	>50	0	0		3.3	4	5.5	8.4	11	27	32
Nutrients (mg/L)													
NH3 as N	29	11	N/A				0.02	0.02	0.02	0.02	0.04	0.08	0.13
NO2 + NO3 as N	29	0	N/A				0.04	0.05	0.07	0.12	0.18	0.26	0.51
TKN as N	29	0	N/A				0.28	0.31	0.37	0.42	0.53	0.61	0.92
Total Phosphorus	29	0	N/A				0.03	0.04	0.05	0.06	0.07	0.1	0.13
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
29	53.6		2	6.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: FISHING CRK AT SR 1109 ETHERIDGE FARM RD NR ENFIELD

Station #: O4690000

Hydrologic Unit Code: 03020102

Latitude: 36.11342

Longitude: -77.62704

Stream class: C NSW

Agency: TPBA

NC stream index: 28-79-(29)

Time period: 01/16/2008 to 12/10/2012

	#	#		Results not meeting EL			Percentiles						
	results	ND	EL	#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	76	0	<4	4	5.3		3.5	4.6	5.6	6.9	9.6	12.5	13.8
	76	0	<5	10	13.2	77.3	3.5	4.6	5.6	6.9	9.6	12.5	13.8
pH (SU)	76	0	<6	0	0		6	6.5	6.7	6.9	7.2	7.3	7.4
	76	0	>9	0	0		6	6.5	6.7	6.9	7.2	7.3	7.4
Spec. conductance (umhos/cm at 25°C)	76	0	N/A				60	75	84	94	105	119	135
Water Temperature (°C)	76	0	>32	0	0		1	7	11.6	20.8	26.2	28	29.1
Other													
Turbidity (NTU)	54	0	>50	0	0		4	4.9	5.5	8.1	13	17	28
Nutrients (mg/L)													
NH3 as N	54	9	N/A				0.01	0.01	0.02	0.05	0.08	0.23	0.76
NO2 + NO3 as N	54	4	N/A				0.01	0.03	0.08	0.13	0.19	0.24	0.32
TKN as N	54	1	N/A				0.2	0.31	0.38	0.57	0.8	1.01	1.49
Total Phosphorus	51	6	N/A				0.02	0.02	0.04	0.06	0.09	0.11	0.74

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
54	45.5	3	5.6

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: FISHING CRK AT NC 97 NR LAWRENCE

Station #: O4899000

Hydrologic Unit Code: 03020102

Latitude: 36.00828

Longitude: -77.52518

Stream class: WS-IV NSW

Agency: TPBA

NC stream index: 28-79-(30.5)

Time period: 01/16/2008 to 12/10/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	1	1.2		1.4	5.6	6.3	7	9.3	12.4	13.5
	84	0	<5	4	4.8		1.4	5.6	6.3	7	9.3	12.4	13.5
pH (SU)	84	0	<6	3	3.6		5.8	6.3	6.6	6.7	7	7.2	7.5
	84	0	>9	0	0		5.8	6.3	6.6	6.7	7	7.2	7.5
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				60	80	87	97	109	120	137
Water Temperature (°C)	84	0	>32	0	0		1	5.8	11.9	20.8	26.4	28.5	31.4
Other													
TSS (mg/L)	60	17	N/A				1	2.7	3.1	3.8	7.3	9.7	60
Turbidity (NTU)	60	0	>50	1	1.7		2.6	4.2	5.9	8.7	12.8	17.9	75
Nutrients (mg/L)													
NH3 as N	60	12	N/A				0.01	0.01	0.02	0.05	0.11	0.19	1.16
NO2 + NO3 as N	60	4	>10	0	0		0.01	0.04	0.08	0.13	0.19	0.25	0.64
TKN as N	60	2	N/A				0.2	0.33	0.44	0.64	0.99	1.39	1.67
Total Phosphorus	57	5	N/A				0.02	0.02	0.04	0.07	0.1	0.17	0.56
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
60	47.2		2	3.3									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: UT TO DEEP CRK AT SR 1104 NR SCOTLAND NECK

Station #: O4995000

Hydrologic Unit Code: 03020102

Latitude: 36.13551

Longitude: -77.48517

Stream class: C NSW

Agency: TPBA

NC stream index: 28-79-32-(0.5)

Time period: 01/16/2008 to 12/10/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	65	77.4	> 99.9	0	0.2	0.4	1.6	3.5	7.5	12.8
	84	0	<5	69	82.1	> 99.9	0	0.2	0.4	1.6	3.5	7.5	12.8
pH (SU)	84	0	<6	16	19	99.1	3.9	5.6	6	6.3	6.6	6.8	7.4
	84	0	>9	0	0		3.9	5.6	6	6.3	6.6	6.8	7.4
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				72	87	104	128	149	178	431
Water Temperature (°C)	84	0	>32	0	0		1.3	5.5	12.2	20	23.9	25.5	27.3
Other													
Turbidity (NTU)	59	0	>50	3	5.1		4.9	5.9	8.1	14	26	50	70
Nutrients (mg/L)													
NH3 as N	59	5	N/A				0.01	0.01	0.03	0.12	0.49	1.65	2.5
NO2 + NO3 as N	59	30	N/A				0.01	0.01	0.01	0.02	0.02	0.04	1.89
TKN as N	59	0	N/A				0.26	1.06	1.27	2.09	3.19	4.96	9.3
Total Phosphorus	56	0	N/A				0.04	0.07	0.13	0.24	0.34	0.63	0.93
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
59	114.4		11	18.6									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: DEEP CRK AT US 258 NR SCOTLAND NECK

Station #: O5100000

Hydrologic Unit Code: 03020102

Latitude: 36.10964

Longitude: -77.43827

Stream class: C NSW

Agency: TPBA

NC stream index: 28-79-32-(0.5)

Time period: 01/16/2008 to 12/10/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	83	0	<4	68	81.9	> 99.9	0.1	0.2	0.7	1.4	3.2	6.9	11.2
	83	0	<5	69	83.1	> 99.9	0.1	0.2	0.7	1.4	3.2	6.9	11.2
pH (SU)	83	0	<6	20	24.1	> 99.9	5.2	5.8	6	6.2	6.5	6.7	7.4
	83	0	>9	0	0		5.2	5.8	6	6.2	6.5	6.7	7.4
Spec. conductance (umhos/cm at 25°C)	83	0	N/A				53	82	100	131	191	230	343
Water Temperature (°C)	83	0	>32	0	0		2	6.3	13.1	20	24	25.8	27.4
Other													
Turbidity (NTU)	57	0	>50	0	0		1.9	4.6	5.9	9	18.5	28.4	45
Nutrients (mg/L)													
NH3 as N	57	11	N/A				0.01	0.01	0.02	0.06	0.12	0.23	0.52
NO2 + NO3 as N	57	34	N/A				0.01	0.01	0.01	0.02	0.02	0.09	0.53
TKN as N	57	0	N/A				0.78	0.98	1.19	1.56	2.06	2.88	4.15
Total Phosphorus	54	0	N/A				0.04	0.06	0.13	0.29	0.51	0.81	1.05
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
57	96.6		13	22.8		65.2							

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 greater than 10% (20% for Fecal Coliform)

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TAR RIV AT NC 33 AND US 64 BUS AT TARBORO

Station #: O5250000

Hydrologic Unit Code: 03020103

Latitude: 35.89352

Longitude: -77.53233

Stream class: C NSW

Agency: NCAMBNT

NC stream index: 28-(80)

Time period: 02/19/2008 to 11/01/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	29	0	<4	0	0		5.4	5.6	6.5	8.2	10.2	11.3	12.1
	29	0	<5	0	0		5.4	5.6	6.5	8.2	10.2	11.3	12.1
pH (SU)	28	0	<6	0	0		6	6.5	6.6	6.9	7.2	7.4	7.6
	28	0	>9	0	0		6	6.5	6.6	6.9	7.2	7.4	7.6
Spec. conductance (umhos/cm at 25°C)	29	0	N/A				59	82	92	108	124	141	173
Water Temperature (°C)	29	0	>32	1	3.4		4.5	6.6	12.1	18.9	25.8	29.4	32.3
Other													
Hardness (mg/L)	12	0	N/A				13	14	25	29	36	41	42
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	11	27	36	61
Turbidity (NTU)	29	0	>50	0	0		2.8	3	3.7	12	19	27	36
Nutrients (mg/L)													
NH3 as N	29	7	N/A				0.02	0.02	0.02	0.02	0.04	0.05	0.14
NO2 + NO3 as N	29	0	N/A				0.13	0.15	0.23	0.29	0.38	0.47	0.55
TKN as N	29	0	N/A				0.39	0.44	0.47	0.58	0.66	0.76	0.95
Total Phosphorus	29	0	N/A				0.05	0.05	0.07	0.1	0.11	0.18	0.19
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
29	61.2		3	10.3									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TAR RIV AT NC 33 AND US 64 BUS AT TARBORO

Station #: O5250000

Hydrologic Unit Code: 03020103

Latitude: 35.89352

Longitude: -77.53233

Stream class: C NSW

Agency: TPBA

NC stream index: 28-(80)

Time period: 01/25/2008 to 12/13/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	1	1.2		1.9	5.8	6.3	7.2	9.3	11.2	14.3
	84	0	<5	2	2.4		1.9	5.8	6.3	7.2	9.3	11.2	14.3
pH (SU)	84	0	<6	3	3.6		5.1	6.1	6.5	6.8	7.1	7.3	8
	84	0	>9	0	0		5.1	6.1	6.5	6.8	7.1	7.3	8
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				55	80	94	114	135	164	203
Water Temperature (°C)	84	0	>32	0	0		1.6	7.6	14	20.6	27.2	28.2	31.1
Other													
TSS (mg/L)	59	6	N/A				1.2	2.9	3.6	8.4	13	16	36
Turbidity (NTU)	59	0	>50	0	0		2.6	3.5	5.1	11	14	32	45
Nutrients (mg/L)													
NH3 as N	59	7	N/A				0.01	0.01	0.03	0.05	0.08	0.13	0.65
NO2 + NO3 as N	59	1	N/A				0.02	0.16	0.26	0.32	0.39	0.51	0.58
TKN as N	59	0	N/A				0.28	0.39	0.5	0.71	0.92	1.18	1.62
Total Phosphorus	56	2	N/A				0.02	0.05	0.07	0.1	0.13	0.19	0.24
Metals (ug/L)													
Aluminum, total (Al)	18	1	N/A				50	50	147	388	690	987	990
Arsenic, total (As)	18	18	>10	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	18	18	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	18	18	>50	0	0		5	5	5	5	5	5	5
Copper, total (Cu)	18	10	>7	0	0		2	2	2	2	2	3	4
Iron, total (Fe)	18	0	>1000	15	83.3	> 99.9	694	698	1259	1705	1963	2233	2326
Lead, total (Pb)	18	18	>25	0	0		5	5	5	5	5	5	5
Manganese, total (Mn)	18	0	N/A				53	69	81	111	142	191	212
Mercury, total (Hg)	18	18	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	18	18	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	18	12	>50	0	0		10	10	10	10	13	19	35
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
59	68.4		4	6.8									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TOWN CRK AT NC 111 SR 1202 NR WIGGINS CROSSROADS

Station #: O5600000

Hydrologic Unit Code: 03020103

Latitude: 35.82238

Longitude: -77.63390

Stream class: C NSW

Agency: TPBA

NC stream index: 28-83

Time period: 01/25/2008 to 12/13/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	54	63.5	> 99.9	0.3	0.8	1.6	3.1	5	9.2	13
pH (SU)	85	0	<5	63	74.1	> 99.9	0.3	0.8	1.6	3.1	5	9.2	13
	85	0	<6	12	14.1	85.9	4.8	5.9	6.1	6.4	6.6	6.8	7.2
	85	0	>9	0	0		4.8	5.9	6.1	6.4	6.6	6.8	7.2
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				73	89	98	111	121	129	144
Water Temperature (°C)	85	0	>32	0	0		0.3	7.4	13.8	20.5	25.5	27	28.9
Other													
Turbidity (NTU)	60	0	>50	0	0		2.7	4	5.1	7.3	10	15.9	39

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
60	61.1	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TOWN CRK AT US 258 NR COBBS CROSSROADS

Station #: O5990000

Hydrologic Unit Code: 03020103

Latitude: 35.79828

Longitude: -77.59144

Stream class: C NSW

Agency: TPBA

NC stream index: 28-83

Time period: 01/25/2008 to 12/13/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	30	35.3	> 99.9	1.4	2.5	3.2	5.4	7.4	11.1	14.5
pH (SU)	85	0	<5	42	49.4	> 99.9	1.4	2.5	3.2	5.4	7.4	11.1	14.5
	85	0	<6	8	9.4		4.9	6	6.2	6.5	6.7	7	7.4
Spec. conductance (umhos/cm at 25°C)	85	0	>9	0	0		4.9	6	6.2	6.5	6.7	7	7.4
	85	0	N/A				62	87	98	112	121	136	169
Water Temperature (°C)	85	0	>32	0	0		0.9	7.4	13.3	19.6	24.1	25.6	27.4
Other													
Turbidity (NTU)	60	0	>50	0	0		1.5	2.7	3.6	4.9	7	16.5	40

Fecal Coliform Screening(#/100mL)

# results:	Geomean:	# > 400:	% > 400: %Conf:
60	91.4	5	8.3

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TAR RIV AT NC 42 AT OLD SPARTA

Station #: O6000000

Hydrologic Unit Code: 03020103

Latitude: 35.79030

Longitude: -77.55067

Stream class: C NSW

Agency: TPBA

NC stream index: 28-(80)

Time period: 01/25/2008 to 12/13/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	84	0	<4	0	0		4.8	5.6	6.1	6.9	9.1	11.4	14.3
	84	0	<5	1	1.2		4.8	5.6	6.1	6.9	9.1	11.4	14.3
pH (SU)	84	0	<6	5	6		5.2	6.3	6.5	6.9	7.2	7.5	8.4
	84	0	>9	0	0		5.2	6.3	6.5	6.9	7.2	7.5	8.4
Spec. conductance (umhos/cm at 25°C)	84	0	N/A				57	83	95	117	148	182	231
Water Temperature (°C)	84	0	>32	0	0		1.5	7.4	13.9	20.4	26.2	27.8	30.5
Other													
TSS (mg/L)	60	11	N/A				1	1.7	3.3	10.1	15	20.7	37
Turbidity (NTU)	60	0	>50	0	0		1.4	2.5	4.7	10.3	16	32	45
Nutrients (mg/L)													
NH3 as N	60	10	N/A				0.01	0.01	0.03	0.06	0.11	0.18	0.52
NO2 + NO3 as N	60	0	N/A				0.13	0.23	0.27	0.37	0.54	0.62	0.83
TKN as N	60	1	N/A				0.2	0.31	0.5	0.7	0.87	1.25	1.91
Total Phosphorus	57	1	N/A				0.02	0.05	0.07	0.09	0.12	0.22	0.39
Metals (ug/L)													
Aluminum, total (Al)	18	1	N/A				50	53	232	382	746	1236	2512
Arsenic, total (As)	18	18	>10	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	18	18	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	18	18	>50	0	0		5	5	5	5	5	5	5
Copper, total (Cu)	18	9	>7	0	0		2	2	2	2	2	3	3
Iron, total (Fe)	18	0	>1000	15	83.3	> 99.9	542	590	1186	1712	1986	2254	2418
Lead, total (Pb)	18	18	>25	0	0		5	5	5	5	5	5	5
Manganese, total (Mn)	18	0	N/A				59	64	70	96	134	217	301
Mercury, total (Hg)	18	18	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	18	18	>88	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	18	15	>50	0	0		10	10	10	10	10	14	15
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
60	77.7		7	11.7									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TAR RIV AT NC 222 NR FALKLAND

Station #: O6200000

Hydrologic Unit Code: 03020103

Latitude: 35.69624

Longitude: -77.48949

Stream class: WS-IV NSW

Agency: NCAMBNT

NC stream index: 28-(84)

Time period: 01/29/2008 to 12/06/2012

	#	#		Results not meeting EL			Percentiles						
	results	ND	EL	#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	1	1.7		1.2	6.3	7.1	8.3	10.1	11.6	12.9
	60	0	<5	1	1.7		1.2	6.3	7.1	8.3	10.1	11.6	12.9
pH (SU)	60	0	<6	3	5		5.7	6.1	6.5	6.8	7.1	7.5	8.5
	60	0	>9	0	0		5.7	6.1	6.5	6.8	7.1	7.5	8.5
Salinity (ppt)	60	0	N/A				0.02	0.03	0.04	0.04	0.06	0.08	0.1
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				66	88	99	114	148	172	209
Water Temperature (°C)	60	0	>32	1	1.7		2.3	6.2	10.6	18.1	26.3	29.8	32.2
Other													
Hardness (mg/L)	12	0	>100	0	0		25	26	28	31	36	40	40
TSS (mg/L)	20	7	N/A				6.2	6.2	6.2	8.9	13.8	21.6	50
Turbidity (NTU)	60	0	>50	1	1.7		1.8	2.2	3.7	8.2	15.8	26.9	58
Nutrients (mg/L)													
NH3 as N	59	20	N/A				0.02	0.02	0.02	0.02	0.04	0.06	0.1
NO2 + NO3 as N	59	0	>10	0	0		0.06	0.12	0.27	0.33	0.4	0.49	0.63
TKN as N	59	0	N/A				0.36	0.44	0.49	0.57	0.7	0.81	1.7
Total Phosphorus	59	0	N/A				0.03	0.05	0.06	0.09	0.12	0.14	0.35
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400: %Conf:										
60	48.2	2	3.3										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: BALLAHACK CANAL AT SR 1526 NR CONETOE

Station #: O6201000

Hydrologic Unit Code: 03020103

Latitude: 35.86447

Longitude: -77.44383

Stream class: C NSW

Agency: TPBA

NC stream index: 28-87-1.2

Time period: 01/25/2008 to 12/13/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	81	0	<4	33	40.7	> 99.9	0.3	1.9	2.9	4.6	7.5	9.8	11.3
	81	0	<5	43	53.1	> 99.9	0.3	1.9	2.9	4.6	7.5	9.8	11.3
pH (SU)	81	0	<6	37	45.7	> 99.9	4.7	5.4	5.8	6.1	6.4	6.7	7.2
	81	0	>9	0	0		4.7	5.4	5.8	6.1	6.4	6.7	7.2
Spec. conductance (umhos/cm at 25°C)	81	0	N/A				110	126	144	168	196	223	336
Water Temperature (°C)	81	0	>32	0	0		3.2	9	13.3	19.8	23.9	26.5	29.4
Other													
TSS (mg/L)	56	12	N/A				1.1	3.1	4.3	6.8	12	25	594
Turbidity (NTU)	56	0	>50	2	3.6		3.1	3.7	6.2	9.2	13.8	34.2	94
Nutrients (mg/L)													
NH3 as N	56	1	N/A				0.01	0.05	0.06	0.11	0.2	0.58	3.55
NO2 + NO3 as N	56	2	N/A				0.01	0.04	0.56	1.13	1.7	1.9	2.64
TKN as N	56	1	N/A				0.2	0.31	0.51	0.76	1.26	2.23	7.35
Total Phosphorus	53	6	N/A				0.02	0.02	0.03	0.05	0.09	0.23	0.6
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
56	70.1		10	17.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CONETOE CRK AT SR 1409 NR BETHEL

Station #: O6205000

Hydrologic Unit Code: 03020103

Latitude: 35.77427

Longitude: -77.46384

Stream class: C NSW

Agency: NCAMBNT

NC stream index: 28-87-(0.5)

Time period: 01/29/2008 to 12/06/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	57	0	<4	10	17.5	94.5	2.6	3.3	4.6	7.2	9.2	10.4	12.2
	57	0	<5	15	26.3	> 99.9	2.6	3.3	4.6	7.2	9.2	10.4	12.2
pH (SU)	57	0	<6	28	49.1	> 99.9	5.2	5.5	5.7	6	6.2	6.5	7.1
	57	0	>9	0	0		5.2	5.5	5.7	6	6.2	6.5	7.1
Salinity (ppt)	57	0	N/A				0.04	0.05	0.06	0.07	0.08	0.08	0.1
Spec. conductance (umhos/cm at 25°C)	57	0	N/A				107	127	144	160	172	185	220
Water Temperature (°C)	57	0	>32	0	0		3	6.8	11.2	15.2	22.1	24.2	25.6
Other													
Hardness (mg/L)	11	0	N/A				39	40	46	48	57	64	65
TSS (mg/L)	19	16	N/A				6.2	6.2	6.2	6.2	8.3	12	24
Turbidity (NTU)	57	0	>50	1	1.8		1.2	2	3.6	4.6	7.1	16.2	130
Nutrients (mg/L)													
NH3 as N	57	7	N/A				0.02	0.02	0.03	0.06	0.12	0.3	1.5
NO2 + NO3 as N	57	0	N/A				0.18	0.8	1.3	1.7	2.2	2.6	3.1
TKN as N	57	0	N/A				0.32	0.39	0.46	0.58	0.81	1.02	2.3
Total Phosphorus	57	0	N/A				0.02	0.03	0.04	0.07	0.11	0.15	0.41
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
57	80.5	4	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: TAR RIV AT US 264 BYP NR GREENVILLE

Station #: O6240000

Hydrologic Unit Code: 03020103

Latitude: 35.64598

Longitude: -77.42212

Stream class: WS-IV NSW

Agency: TPBA

NC stream index: 28-(84)

Time period: 01/25/2008 to 12/13/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	1	1.2		1.8	5.5	6	7	9	11.4	15.5
	85	0	<5	4	4.7		1.8	5.5	6	7	9	11.4	15.5
pH (SU)	85	0	<6	4	4.7		5.1	6.1	6.5	6.9	7.2	7.4	8.4
	85	0	>9	0	0		5.1	6.1	6.5	6.9	7.2	7.4	8.4
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				55	75	98	118	145	166	220
Water Temperature (°C)	85	0	>32	0	0		1.8	7.8	14.3	21.6	26.9	28.9	31.4
Other													
TSS (mg/L)	60	4	N/A				1.5	2.9	4.2	7	12.8	17.8	26
Turbidity (NTU)	60	0	>50	0	0		2.1	3.4	5.9	9.2	15.8	26	45
Nutrients (mg/L)													
NH3 as N	60	2	N/A				0.01	0.02	0.04	0.06	0.1	0.15	0.36
NO2 + NO3 as N	60	2	>10	0	0		0.01	0.2	0.25	0.37	0.47	0.61	0.75
TKN as N	60	1	N/A				0.2	0.36	0.48	0.68	0.87	1.22	1.78
Total Phosphorus	57	1	N/A				0.02	0.05	0.06	0.09	0.12	0.17	0.61
Metals (ug/L)													
Aluminum, total (Al)	18	0	N/A				89	108	154	398	830	945	1012
Arsenic, total (As)	18	18	>10	0	0		5	5	5	5	5	5	5
Cadmium, total (Cd)	18	18	>2	0	0		1	1	1	1	1	1	1
Chromium, total (Cr)	18	18	>50	0	0		5	5	5	5	5	5	5
Copper, total (Cu)	18	11	>7	0	0		2	2	2	2	2	3	3
Iron, total (Fe)	18	1	>1000	13	72.2	> 99.9	50	536	956	1480	1780	2262	2329
Lead, total (Pb)	18	18	>25	0	0		5	5	5	5	5	5	5
Manganese, total (Mn)	18	0	>200	0	0		56	57	84	104	121	196	200
Mercury, total (Hg)	18	18	>0.012	0	0		0.2	0.2	0.2	0.2	0.2	0.2	0.2
Nickel, total (Ni)	18	18	>25	0	0		10	10	10	10	10	10	10
Zinc, total (Zn)	18	13	>50	0	0		10	10	10	10	11	18	21
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:			# > 400:		% > 400: %Conf:							
60	52.5			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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CHICOD CRK AT SR 1760 NR SIMPSON

Station #: O6450000

Hydrologic Unit Code: 03020103

Latitude: 35.56149

Longitude: -77.23047

Stream class: C NSW

Agency: NCAMBNT

NC stream index: 28-101

Time period: 01/29/2008 to 12/06/2012

	#	#		Results not meeting EL			Percentiles						
	results	ND	EL	#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<4	24	40	> 99.9	0	0.8	2.5	5.3	8.1	9.3	13
	60	0	<5	29	48.3	> 99.9	0	0.8	2.5	5.3	8.1	9.3	13
pH (SU)	60	0	<6	9	15	85.8	5.5	5.9	6.1	6.4	6.7	6.9	7.7
	60	0	>9	0	0		5.5	5.9	6.1	6.4	6.7	6.9	7.7
Salinity (ppt)	60	0	N/A				0.02	0.04	0.05	0.07	0.08	0.11	0.2
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				66	104	122	158	187	233	410
Water Temperature (°C)	60	0	>32	0	0		1	5.6	10.5	16.7	23.7	26.3	28.1
Other													
Hardness (mg/L)	12	0	N/A				22	24	50	56	67	75	78
TSS (mg/L)	19	10	N/A				6.2	6.2	6.2	11	12	18	20
Turbidity (NTU)	60	0	>50	0	0		1.5	2.7	4.5	7.1	11.8	17	34
Nutrients (mg/L)													
NH3 as N	60	27	N/A				0.02	0.02	0.02	0.02	0.04	0.12	0.63
NO2 + NO3 as N	60	21	N/A				0.02	0.02	0.02	0.08	0.34	0.81	1.1
TKN as N	60	0	N/A				0.4	0.51	0.59	0.84	1.1	1.49	2.8
Total Phosphorus	60	0	N/A				0.05	0.07	0.1	0.19	0.31	0.52	1
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
60	123.3	9	15										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TAR RIV AT SR 1565 NR GRIMESLAND

Station #: O6500000

Hydrologic Unit Code: 03020103

Latitude: 35.57404

Longitude: -77.17542

Stream class: B NSW

Agency: NCAMBNT

NC stream index: 28-(99.5)

Time period: 01/29/2008 to 12/06/2012

	#	#		Results not meeting EL			Percentiles						
	results	ND	EL	#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	59	0	<4	2	3.4		0.3	5	5.8	7	9.4	11.2	11.9
	59	0	<5	4	6.8		0.3	5	5.8	7	9.4	11.2	11.9
pH (SU)	59	0	<6	3	5.1		5.7	6	6.3	6.6	6.8	7.1	8
	59	0	>9	0	0		5.7	6	6.3	6.6	6.8	7.1	8
Salinity (ppt)	59	0	N/A				0.02	0.03	0.04	0.05	0.07	0.45	2.99
Spec. conductance (umhos/cm at 25°C)	59	0	N/A				69	92	106	127	164	898	5429
Water Temperature (°C)	59	0	>32	0	0		3.4	7.1	11.1	18.4	25.8	29.5	31.2
Other													
Hardness (mg/L)	12	0	N/A				27	28	32	34	39	43	44
TSS (mg/L)	20	11	N/A				6.2	6.2	6.2	7.2	12	23.7	32
Turbidity (NTU)	59	0	>50	1	1.7		3.2	4.7	6.5	8.2	12	23	70
Nutrients (mg/L)													
NH3 as N	58	6	N/A				0.02	0.02	0.03	0.04	0.07	0.1	0.2
NO2 + NO3 as N	58	1	N/A				0.02	0.24	0.37	0.45	0.57	0.68	0.81
TKN as N	57	0	N/A				0.44	0.51	0.56	0.65	0.78	0.82	2.1
Total Phosphorus	58	0	N/A				0.06	0.08	0.1	0.13	0.16	0.18	0.46
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:									
59	51.8	5	8.5										

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: GRINDLE CRK AT SR 1427 NR BETHEL

Station #: O6700000

Hydrologic Unit Code: 03020103

Latitude: 35.76324

Longitude: -77.37805

Stream class: C NSW

Agency: TPBA

NC stream index: 28-100

Time period: 01/25/2008 to 12/13/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	79	0	<4	5	6.3		3.2	4.7	5.9	8.2	9.9	11.5	15.8
	79	0	<5	8	10.1	45.9	3.2	4.7	5.9	8.2	9.9	11.5	15.8
pH (SU)	79	0	<6	11	13.9	83.6	5.1	5.8	6.4	6.6	6.9	7.3	7.7
	79	0	>9	0	0		5.1	5.8	6.4	6.6	6.9	7.3	7.7
Spec. conductance (umhos/cm at 25°C)	79	0	N/A				90	132	163	181	195	219	242
Water Temperature (°C)	79	0	>32	0	0		3.9	9.1	13.4	20.4	24.6	27.1	30.1
Other													
TSS (mg/L)	57	5	N/A				1.8	2.7	3.4	5	8.9	23.8	348
Turbidity (NTU)	57	0	>50	4	7		2.1	4.2	6.1	7.8	13	24.4	230
Nutrients (mg/L)													
NH3 as N	57	3	N/A				0.01	0.03	0.05	0.07	0.11	0.22	0.31
NO2 + NO3 as N	57	0	N/A				0.05	0.11	0.43	0.85	1.8	2.55	3.82
TKN as N	57	1	N/A				0.2	0.31	0.42	0.6	1	1.34	19.44
Total Phosphorus	54	1	N/A				0.02	0.04	0.06	0.09	0.12	0.34	7.8
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
57	95.4		10	17.5									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: GRINDLE CRK AT US 264 AT PACTOLUS

Station #: O6798000

Hydrologic Unit Code: 03020103

Latitude: 35.62426

Longitude: -77.22118

Stream class: C NSW

Agency: TPBA

NC stream index: 28-100

Time period: 01/25/2008 to 12/13/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	<4	0	0		4.1	6.8	7.7	8.4	10.2	11.4	14.2
	85	0	<5	2	2.4		4.1	6.8	7.7	8.4	10.2	11.4	14.2
pH (SU)	85	0	<6	18	21.2	99.8	3.7	5.4	6.1	6.6	7	7.5	8.6
	85	0	>9	0	0		3.7	5.4	6.1	6.6	7	7.5	8.6
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				59	111	144	157	174	186	206
Water Temperature (°C)	85	0	>32	0	0		4.4	8.3	13.6	19.1	23.2	25.7	27.7
Other													
TSS (mg/L)	60	5	N/A				1	2	3.3	5	8.9	15.8	153
Turbidity (NTU)	60	0	>50	1	1.7		2.2	2.6	4.2	8.1	11.8	25.2	110
Nutrients (mg/L)													
NH3 as N	60	1	N/A				0.01	0.02	0.05	0.07	0.12	0.21	0.43
NO2 + NO3 as N	60	0	N/A				0.54	0.72	0.89	1.14	1.39	1.83	2.61
TKN as N	60	0	N/A				0.21	0.32	0.53	0.73	0.99	1.31	2.49
Total Phosphorus	57	1	N/A				0.02	0.03	0.04	0.07	0.1	0.13	0.53
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
59	89.8		9	15.3									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: FLAT SWAMP AT SR 1159 THIRD ST AT ROBERSONVILLE

Station #: O7000000

Hydrologic Unit Code: 03020103

Latitude: 35.81602

Longitude: -77.26421

Stream class: C Sw NSW

Agency: TPBA

NC stream index: 28-103-2

Time period: 01/25/2008 to 12/13/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	N/A				0.2	0.6	1.2	3.6	6.6	10.3	13
pH (SU)	85	0	<4.3	0	0		4.6	5.6	6.1	6.3	6.5	6.8	7.6
	85	0	>9	0	0		4.6	5.6	6.1	6.3	6.5	6.8	7.6
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				75	94	122	137	153	181	530
Water Temperature (°C)	85	0	>32	0	0		2.1	7.9	13.3	19.2	23.5	25.4	27.3
Other													
Turbidity (NTU)	60	0	>50	3	5		4.1	6.6	9.4	12.5	19.8	38.7	70
Nutrients (mg/L)													
NH3 as N	60	1	N/A				0.01	0.03	0.05	0.1	0.16	0.33	0.65
NO2 + NO3 as N	60	7	N/A				0.01	0.01	0.04	0.3	0.73	1.24	2.19
TKN as N	60	1	N/A				0.2	0.53	0.74	1	1.38	2.3	3.29
Total Phosphorus	57	0	N/A				0.02	0.04	0.06	0.1	0.2	0.37	0.77
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
60	142.2		16	26.7		86.9							

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: FLAT SWAMP AT SR 1157 NR ROBERSONVILLE

Station #: 07100000

Hydrologic Unit Code: 03020103

Latitude: 35.78183

Longitude: -77.25683

Stream class: C Sw NSW

Agency: TPBA

NC stream index: 28-103-2

Time period: 01/25/2008 to 12/13/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	85	0	N/A				0.2	1.3	2.8	4.6	7	10.4	13.6
pH (SU)	85	0	<4.3	0	0		4.9	5.8	6.3	6.7	7	7.2	7.7
	85	0	>9	0	0		4.9	5.8	6.3	6.7	7	7.2	7.7
Spec. conductance (umhos/cm at 25°C)	85	0	N/A				84	121	166	224	316	419	845
Water Temperature (°C)	85	0	>32	0	0		2.9	7.8	13.1	19.6	23	25.5	26.6
Other													
Turbidity (NTU)	60	0	>50	1	1.7		3.4	6.2	8.5	12.5	15.8	25.5	54
Nutrients (mg/L)													
NH3 as N	60	0	N/A				0.02	0.04	0.07	0.11	0.25	0.35	0.58
NO2 + NO3 as N	60	1	N/A				0.01	0.09	0.29	0.56	0.99	1.99	2.36
TKN as N	60	0	N/A				0.33	0.49	0.71	1.04	1.41	1.77	2.47
Total Phosphorus	57	0	N/A				0.02	0.05	0.09	0.16	0.33	0.58	1.02
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
60	144		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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: TRANTERS CRK AT SR 1403 NR WASHINGTON

Station #: 07300000

Hydrologic Unit Code: 03020103

Latitude: 35.56297

Longitude: -77.08640

Stream class: C Sw NSW

Agency: NCAMBNT

NC stream index: 28-103

Time period: 01/29/2008 to 12/06/2012

	#	#		Results not meeting EL			Percentiles						
	results	ND	EL	#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	N/A				0.3	2.7	4.5	6.1	8.2	9.7	11.1
pH (SU)	60	0	<4.3	0	0		4.4	5.5	6	6.4	6.8	6.9	7.4
	60	0	>9	0	0		4.4	5.5	6	6.4	6.8	6.9	7.4
Salinity (ppt)	60	0	N/A				0.03	0.05	0.06	0.16	1.45	3.93	8.11
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				80	113	146	320	2688	7061	14000
Water Temperature (°C)	60	0	>32	1	1.7		3.5	7	12.5	18.1	25.7	29.2	32.1
Other													
Chlorophyll a (ug/L)	57	6	>40	4	7		1	1	2	6	20	36	160
Hardness (mg/L)	12	0	N/A				27	29	40	60	208	440	500
TSS (mg/L)	20	15	N/A				6.2	6.2	6.2	6.2	7.8	11.8	13
Turbidity (NTU)	60	0	>50	0	0		2.5	3.1	3.8	5.4	7.5	11	24
Nutrients (mg/L)													
NH3 as N	60	17	N/A				0.02	0.02	0.02	0.04	0.07	0.11	0.19
NO2 + NO3 as N	60	9	N/A				0.02	0.02	0.04	0.08	0.18	0.32	0.58
TKN as N	60	0	N/A				0.52	0.59	0.68	0.82	0.97	1.19	2.3
Total Phosphorus	60	0	N/A				0.04	0.06	0.08	0.1	0.14	0.17	0.46
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
60	50.7		3	5									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: PAMLICO RIV AT US 17 AT WASHINGTON

Station #: O7650000

Hydrologic Unit Code: 03020104

Latitude: 35.54321

Longitude: -77.06152

Stream class: SC NSW

Agency: NCAMBNT

NC stream index: 29-(1)

Time period: 01/08/2008 to 12/04/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	90	0	<5	4	4.4		0.8	5.3	6.4	8.2	9.7	11.1	13.3
pH (SU)	90	0	<6.8	17	18.9	99.2	6.3	6.5	6.8	7.1	7.3	7.9	8.7
	90	0	>8.5	1	1.1		6.3	6.5	6.8	7.1	7.3	7.9	8.7
Salinity (ppt)	90	0	N/A				0.02	0.04	0.08	0.82	3.51	6.91	9.94
Spec. conductance (umhos/cm at 25°C)	90	0	N/A				66	102	183	1549	6088	12108	16944
Water Temperature (°C)	90	0	>32	1	1.1		2.3	6.8	11.4	19.6	26.7	29.9	32.2
Other													
Chlorophyll a (ug/L)	87	1	>40	25	28.7	> 99.9	1	2	3	19	46	76	170
TSS (mg/L)	20	6	N/A				6.2	6.2	6.2	8.5	13.8	15.9	20
Turbidity (NTU)	90	0	>25	5	5.6		1.8	4.9	6.3	8.4	11	17.9	40
Nutrients (mg/L)													
NH3 as N	90	37	N/A				0.02	0.02	0.02	0.02	0.06	0.07	0.29
NO2 + NO3 as N	90	17	N/A				0.02	0.02	0.11	0.28	0.38	0.48	0.68
TKN as N	89	0	N/A				0.4	0.59	0.69	0.76	0.93	1.1	1.8
Total Phosphorus	90	0	N/A				0.05	0.08	0.1	0.13	0.15	0.19	0.28
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
88	26.1		1	1.1									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: PAMLICO RIV AT CM 16 NR WHICHARD BEACH

Station #: O7680000

Hydrologic Unit Code: 03020104

Latitude: 35.50791

Longitude: -77.02034

Stream class: SB NSW

Agency: NCAMBNT

NC stream index: 29-(5)

Time period: 01/08/2008 to 12/04/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	90	0	<5	2	2.2		4.7	6.8	8	9.2	10.8	12	15.1
pH (SU)	90	0	<6.8	13	14.4	88.7	6.3	6.7	7.1	7.7	8	8.4	9.1
	90	0	>8.5	5	5.6		6.3	6.7	7.1	7.7	8	8.4	9.1
Salinity (ppt)	90	0	N/A				0.02	0.12	0.85	3.32	5.64	10.49	14.18
Spec. conductance (umhos/cm at 25°C)	90	0	N/A				70	251	1604	6088	9972	17611	23515
Water Temperature (°C)	90	0	>32	1	1.1		2.8	7.2	11.9	20.2	26.2	30.1	32.2
Other													
Chlorophyll a (ug/L)	87	1	>40	28	32.2	> 99.9	1	2	14	31	46	63	132
TSS (mg/L)	20	7	N/A				6.2	6.2	6.2	6.8	13.2	16	28
Turbidity (NTU)	90	0	>25	4	4.4		2.1	4.7	6.3	8.4	11	13	30
Nutrients (mg/L)													
NH3 as N	90	62	N/A				0.02	0.02	0.02	0.02	0.03	0.08	0.3
NO2 + NO3 as N	90	34	N/A				0.02	0.02	0.02	0.06	0.25	0.42	0.67
TKN as N	89	0	N/A				0.51	0.63	0.74	0.81	0.97	1.1	1.5
Total Phosphorus	90	0	N/A				0.04	0.06	0.09	0.12	0.15	0.2	0.33
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
88	15.7		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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: CHOCOWINITY BAY ABOVE SILAS CRK NR WHICHARD BEACH

Station #: O7710000

Hydrologic Unit Code: 03020104

Latitude: 35.50310

Longitude: -77.04231

Stream class: SC NSW

Agency: NCAMBNT

NC stream index: 29-6-(1)

Time period: 01/08/2008 to 12/04/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	90	0	<5	1	1.1		4.6	6.8	8.3	9.5	11.4	13.2	15.9
pH (SU)	90	0	<6.8	3	3.3		6.5	7	7.5	7.9	8.3	8.5	8.9
	90	0	>8.5	8	8.9		6.5	7	7.5	7.9	8.3	8.5	8.9
Salinity (ppt)	90	0	N/A				0.14	0.74	1.99	4.58	8.46	11.58	13.91
Spec. conductance (umhos/cm at 25°C)	90	0	N/A				294	1407	3670	8212	14607	19526	23084
Water Temperature (°C)	90	0	>32	0	0		2.3	7.4	12.3	20.4	26.4	30.7	32
Other													
Chlorophyll a (ug/L)	87	0	>40	32	36.8	> 99.9	2	10	18	31	50	60	120
TSS (mg/L)	19	3	N/A				6.2	6.2	7	12	13	15	16
Turbidity (NTU)	90	0	>25	1	1.1		1.9	4	6.1	8.6	11	14	28
Nutrients (mg/L)													
NH3 as N	90	79	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.3
NO2 + NO3 as N	90	58	N/A				0.02	0.02	0.02	0.02	0.09	0.31	0.52
TKN as N	89	0	N/A				0.56	0.68	0.76	0.9	1	1.1	1.5
Total Phosphorus	90	0	N/A				0.03	0.06	0.09	0.11	0.17	0.29	0.46
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
88	10.9		1	1.1									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: PAMLICO RIV AT MOUTH OF BROAD CRK NR BUNYON MID CHANNEL

Station #: O787000C

Hydrologic Unit Code: 03020104

Latitude: 35.46183

Longitude: -76.95956

Stream class: SB NSW

Agency: NCAMBNT

NC stream index: 29-(5)

Time period: 01/08/2008 to 12/04/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	90	0	<5	0	0		5.9	7.4	7.9	9.2	11.2	12.2	14.7
pH (SU)	90	0	<6.8	4	4.4		6.1	7	7.6	7.9	8.2	8.4	9.1
	90	0	>8.5	4	4.4		6.1	7	7.6	7.9	8.2	8.4	9.1
Salinity (ppt)	90	0	N/A				0.03	1.23	3.51	6.94	11.1	13.33	16.76
Spec. conductance (umhos/cm at 25°C)	90	0	N/A				82	2307	6345	12123	18784	22219	27370
Water Temperature (°C)	90	0	>32	1	1.1		2.1	6.7	11.8	19.6	26	29.7	32.3
Other													
Chlorophyll a (ug/L)	84	0	>40	14	16.7	96.1	2	7	16	23	34	44	130
TSS (mg/L)	20	4	N/A				6.2	6.2	6.3	8.8	12.8	15	16
Turbidity (NTU)	90	1	>25	0	0		1	3.1	4.7	6.2	7.9	12	25
Nutrients (mg/L)													
NH3 as N	90	74	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.24
NO2 + NO3 as N	90	60	N/A				0.02	0.02	0.02	0.02	0.06	0.26	0.56
TKN as N	87	0	N/A				0.42	0.58	0.66	0.76	0.88	0.98	1.8
Total Phosphorus	90	0	N/A				0.03	0.04	0.06	0.09	0.12	0.19	0.3
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
88	4.5		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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: PAMLICO RIV AT MOUTH OF BROAD CRK NR BUNYON N SHORE

Station #: O787000N

Hydrologic Unit Code: 03020104

Latitude: 35.48094

Longitude: -76.95642

Stream class: SB NSW

Agency: NCAMBNT

NC stream index: 29-10-(3)

Time period: 01/08/2008 to 08/10/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	62	0	<5	0	0		5.8	6.4	7.2	8.4	10.6	12.3	14.9
pH (SU)	62	0	<6.8	9	14.5	83.6	5.9	6.6	7.3	7.6	7.9	8.1	8.8
	62	0	>8.5	2	3.2		5.9	6.6	7.3	7.6	7.9	8.1	8.8
Salinity (ppt)	62	0	N/A				0.05	1.06	3.56	6.91	11.91	14.31	16.96
Spec. conductance (umhos/cm at 25°C)	62	0	N/A				117	1986	6676	12008	20018	23696	27659
Water Temperature (°C)	62	0	>32	0	0		2.5	6.8	11.8	20	26.6	28.9	31.2
Other													
TSS (mg/L)	10	2	N/A				6.2	6.2	8.9	13.5	18.5	30.8	32
Turbidity (NTU)	62	0	>25	1	1.6		1.4	4	5.7	7.7	10	12.7	31
Nutrients (mg/L)													
NH3 as N	60	51	N/A				0.02	0.02	0.02	0.02	0.02	0.04	0.1
NO2 + NO3 as N	60	40	N/A				0.02	0.02	0.02	0.02	0.09	0.32	0.52
TKN as N	57	0	N/A				0.36	0.6	0.66	0.77	0.89	1	1.3
Total Phosphorus	60	0	N/A				0.04	0.05	0.07	0.09	0.14	0.2	0.39
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
62	8.1		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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: PAMLICO RIV AT MOUTH OF BROAD CRK NR BUNYON S SHORE

Station #: O787000S

Hydrologic Unit Code: 03020104

Latitude: 35.44533

Longitude: -76.96217

Stream class: SB NSW

Agency: NCAMBNT

NC stream index: 29-9

Time period: 01/08/2008 to 08/10/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	62	0	<5	1	1.6		3.8	6.4	7.7	9.2	10.9	12.1	14.7
pH (SU)	62	0	<6.8	2	3.2		6.4	7	7.4	7.8	8.1	8.3	8.6
	62	0	>8.5	2	3.2		6.4	7	7.4	7.8	8.1	8.3	8.6
Salinity (ppt)	62	0	N/A				0.07	1.19	3.5	7.44	12.1	13.93	16.67
Spec. conductance (umhos/cm at 25°C)	62	0	N/A				155	2223	6462	12956	20312	23137	27225
Water Temperature (°C)	62	0	>32	0	0		1.8	6.5	10.8	19.6	26.8	28.8	30.6
Other													
Chlorophyll a (ug/L)	3	0	>40	1	33.3		9	9	9	16	53	53	53
TSS (mg/L)	11	2	N/A				6.2	6.2	7.5	9.5	14	14.8	15
Turbidity (NTU)	62	0	>25	1	1.6		1.6	4	5	7	9	13	32
Nutrients (mg/L)													
NH3 as N	62	54	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.08
NO2 + NO3 as N	62	42	N/A				0.02	0.02	0.02	0.02	0.1	0.36	0.54
TKN as N	60	0	N/A				0.51	0.58	0.67	0.74	0.88	0.95	1.2
Total Phosphorus	62	0	N/A				0.04	0.05	0.06	0.09	0.13	0.19	0.25
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
62	5.3		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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: BATH CRK AT NC 92 NR BATH

Station #: O8495000

Hydrologic Unit Code: 03020104

Latitude: 35.47745

Longitude: -76.81692

Stream class: SB NSW

Agency: NCAMBNT

NC stream index: 29-19-(5.5)

Time period: 01/08/2008 to 12/04/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	90	0	<5	0	0		5.6	7.1	7.8	9.1	10.5	12.4	15
pH (SU)	90	0	<6.8	0	0		7.2	7.5	7.7	7.9	8.1	8.3	8.8
	90	0	>8.5	3	3.3		7.2	7.5	7.7	7.9	8.1	8.3	8.8
Salinity (ppt)	90	0	N/A				1.49	3.75	8.26	10.85	14.29	16.52	19.27
Spec. conductance (umhos/cm at 25°C)	90	0	N/A				2747	6748	14268	18393	23685	27016	31022
Water Temperature (°C)	90	0	>32	2	2.2		3.5	7.7	12.9	20.8	27.4	30.3	33
Other													
Chlorophyll a (ug/L)	86	0	>40	8	9.3		3	6	11	18	30	41	173
TSS (mg/L)	20	6	N/A				6.2	6.2	7	9.8	13.8	19.9	22
Turbidity (NTU)	90	1	>25	2	2.2		1	2.2	3.5	5.3	8.5	12	65
Nutrients (mg/L)													
NH3 as N	89	82	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.14
NO2 + NO3 as N	89	76	N/A				0.02	0.02	0.02	0.02	0.02	0.07	0.23
TKN as N	88	0	N/A				0.38	0.5	0.6	0.69	0.84	1	2.4
Total Phosphorus	88	0	N/A				0.03	0.03	0.04	0.06	0.12	0.18	0.35
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
88	8.7		2	2.3									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: PAMLICO RIV AT CM 5 NR CORE POINT

Station #: O8498000

Hydrologic Unit Code: 03020104

Latitude: 35.43048

Longitude: -76.84144

Stream class: SB NSW

Agency: NCAMBNT

NC stream index: 29-(5)

Time period: 01/08/2008 to 12/04/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	90	0	<5	0	0		6.2	7.6	8.3	9.7	11.4	12.2	15
pH (SU)	90	0	<6.8	0	0		6.9	7.4	7.8	8.1	8.3	8.5	9
	90	0	>8.5	7	7.8		6.9	7.4	7.8	8.1	8.3	8.5	9
Salinity (ppt)	90	0	N/A				1.1	3.22	6.42	10.59	13.75	16.07	19.04
Spec. conductance (umhos/cm at 25°C)	90	0	N/A				2059	5831	11278	17966	22849	26341	30724
Water Temperature (°C)	90	0	>32	1	1.1		2.6	7.1	11.7	19.9	26.7	30	32.3
Other													
Chlorophyll a (ug/L)	87	0	>40	7	8		3	6	10	16	27	38	60
TSS (mg/L)	20	6	N/A				6.2	6.2	6.2	7.9	14.8	19	19
Turbidity (NTU)	90	0	>25	1	1.1		1.2	2.2	3.2	4.1	6	8.1	40
Nutrients (mg/L)													
NH3 as N	90	82	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.21
NO2 + NO3 as N	90	76	N/A				0.02	0.02	0.02	0.02	0.02	0.16	0.41
TKN as N	89	1	N/A				0.2	0.51	0.56	0.67	0.75	0.87	1.2
Total Phosphorus	89	0	N/A				0.03	0.03	0.04	0.06	0.09	0.13	0.28
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:		% > 400: %Conf:								
88	2		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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: PAMLICO RIV AT CM 4 NR GUM POINT MID CHANNEL

Station #: O865000C

Hydrologic Unit Code: 03020104

Latitude: 35.40471

Longitude: -76.76707

Stream class: SB NSW

Agency: NCAMBNT

NC stream index: 29-(5)

Time period: 01/08/2008 to 12/04/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	90	0	<5	0	0		6.7	7.4	8.2	9.1	10.7	12.4	14.8
pH (SU)	90	0	<6.8	0	0		7.1	7.6	7.8	8	8.2	8.3	8.7
	90	0	>8.5	3	3.3		7.1	7.6	7.8	8	8.2	8.3	8.7
Salinity (ppt)	90	0	N/A				1.83	5.83	8.61	12.01	15.06	17.26	20.51
Spec. conductance (umhos/cm at 25°C)	90	0	N/A				3379	10295	14832	20213	24809	28091	32830
Water Temperature (°C)	90	0	>32	0	0		2.7	7.1	11.6	19.5	26.4	29.3	31
Other													
Chlorophyll a (ug/L)	88	0	>40	2	2.3		2	6	9	14	19	26	66
TSS (mg/L)	20	8	N/A				6.2	6.2	6.2	10.2	12	21.9	30
Turbidity (NTU)	90	2	>25	0	0		1	1.7	2.5	3.2	4.4	6.7	16
Nutrients (mg/L)													
NH3 as N	90	84	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.14
NO2 + NO3 as N	90	78	N/A				0.02	0.02	0.02	0.02	0.02	0.09	0.32
TKN as N	89	0	N/A				0.27	0.46	0.52	0.62	0.69	0.77	0.97
Total Phosphorus	89	0	N/A				0.02	0.03	0.03	0.05	0.07	0.1	0.15
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
88	1.3		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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: PAMLICO RIV AT CM 4 NR GUM POINT N SHORE

Station #: O865000N

Hydrologic Unit Code: 03020104

Latitude: 35.41285

Longitude: -76.76343

Stream class: SB NSW

Agency: NCAMBNT

NC stream index: 29-(5)

Time period: 01/08/2008 to 12/04/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	90	0	<5	0	0		6.4	7.4	8	9.1	10.6	12.4	15.1
pH (SU)	90	0	<6.8	0	0		7.4	7.7	7.9	8	8.2	8.3	8.6
	90	0	>8.5	2	2.2		7.4	7.7	7.9	8	8.2	8.3	8.6
Salinity (ppt)	90	0	N/A				2.32	5.4	9.27	12.18	15.23	17.54	20.05
Spec. conductance (umhos/cm at 25°C)	90	0	N/A				4255	9572	15908	20451	25085	28532	32162
Water Temperature (°C)	90	0	>32	0	0		2.6	7.1	11.5	19.6	26.2	29.8	31.2
Other													
TSS (mg/L)	20	11	N/A				6.2	6.2	6.2	6.2	8	9.9	12
Turbidity (NTU)	90	0	>25	0	0		1.1	2	2.6	3.4	4.5	6.3	15
Nutrients (mg/L)													
NH3 as N	89	84	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.14
NO2 + NO3 as N	89	77	N/A				0.02	0.02	0.02	0.02	0.02	0.08	0.27
TKN as N	88	0	N/A				0.37	0.46	0.52	0.59	0.66	0.81	1.2
Total Phosphorus	88	0	N/A				0.02	0.03	0.03	0.04	0.07	0.11	0.16
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:			# > 400:	% > 400: %Conf:								
88	1.6			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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: PAMLICO RIV AT CM 4 NR GUM POINT S SHORE

Station #: O865000S

Hydrologic Unit Code: 03020104

Latitude: 35.38992

Longitude: -76.77234

Stream class: SB NSW

Agency: NCAMBNT

NC stream index: 29-(5)

Time period: 01/08/2008 to 12/04/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	90	0	<5	1	1.1		4	6.6	7.5	8.7	10.4	11.9	14.2
pH (SU)	90	0	<6.8	0	0		7.1	7.5	7.7	7.9	8	8.2	8.5
	90	0	>8.5	0	0		7.1	7.5	7.7	7.9	8	8.2	8.5
Salinity (ppt)	90	0	N/A				1.02	5.15	7.13	10.5	14.01	16.48	19.4
Spec. conductance (umhos/cm at 25°C)	90	0	N/A				1905	9140	12269	17992	23248	26871	31223
Water Temperature (°C)	90	0	>32	0	0		2.1	7.4	11.4	19.8	25.9	28.9	30.6
Other													
Chlorophyll a (ug/L)	1	0	>40	1	100		100	100	100	100	100	100	100
TSS (mg/L)	20	2	N/A				6.2	6.2	7.1	9.1	14.8	18.8	27
Turbidity (NTU)	90	0	>25	0	0		1.5	2.7	4.1	5.4	7.4	12	23
Nutrients (mg/L)													
NH3 as N	90	61	N/A				0.02	0.02	0.02	0.02	0.04	0.08	0.17
NO2 + NO3 as N	90	67	N/A				0.02	0.02	0.02	0.02	0.02	0.09	0.39
TKN as N	88	0	N/A				0.42	0.5	0.56	0.66	0.74	0.82	1.1
Total Phosphorus	89	0	N/A				0.03	0.04	0.05	0.07	0.1	0.13	0.21
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:			# > 400:	% > 400: %Conf:								
88	3			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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: PAMLICO RIV AT HICKORY PT NR SOUTH CRK

Station #: O9059000

Hydrologic Unit Code: 03020104

Latitude: 35.38542

Longitude: -76.68372

Stream class: SA HQW NSW

Agency: NCAMBNT

NC stream index: 29-(27)

Time period: 01/08/2008 to 12/04/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	90	0	<5	0	0		7	7.4	7.9	8.9	10.7	11.8	14.4
pH (SU)	90	0	<6.8	0	0		7	7.6	7.8	8	8.2	8.3	8.8
	90	0	>8.5	1	1.1		7	7.6	7.8	8	8.2	8.3	8.8
Salinity (ppt)	90	0	N/A				3.98	6.74	10.61	13.72	16.34	18.92	21.03
Spec. conductance (umhos/cm at 25°C)	90	0	N/A				7153	11811	18020	22806	26727	30524	33568
Water Temperature (°C)	90	0	>32	0	0		1.9	7	11.4	19.8	26.2	29.2	30.5
Other													
Chlorophyll a (ug/L)	87	0	>40	1	1.1		2	5	7	11	15	22	48
TSS (mg/L)	20	10	N/A				6.2	6.2	6.2	7.2	10.4	12.9	14
Turbidity (NTU)	90	2	>25	0	0		1	1.6	2.2	3	3.7	5.6	8.6
Nutrients (mg/L)													
NH3 as N	90	84	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.08
NO2 + NO3 as N	90	81	N/A				0.02	0.02	0.02	0.02	0.02	0.06	0.2
TKN as N	89	0	N/A				0.31	0.41	0.47	0.56	0.64	0.71	0.88
Total Phosphorus	89	0	N/A				0.02	0.03	0.03	0.04	0.05	0.07	0.1
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:			Median	# > 43	% > 43	%Conf			
88	1.2		0	0			1	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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: PUNGO CRK AT NC 92 AT SIDNEY CROSSROADS

Station #: O9750500

Hydrologic Unit Code: 03020104

Latitude: 35.49938

Longitude: -76.67239

Stream class: SC NSW

Agency: NCAMBNT

NC stream index: 29-34-35

Time period: 01/15/2008 to 12/05/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	54	0	<5	1	1.9		4.1	6.3	7.1	9.4	10.3	11.8	15
pH (SU)	53	0	<6.8	4	7.5		6.1	6.8	7.4	7.7	7.9	8.2	8.4
	53	0	>8.5	0	0		6.1	6.8	7.4	7.7	7.9	8.2	8.4
Salinity (ppt)	54	0	N/A				1	5.65	9.89	12.12	14.37	17.22	19.98
Spec. conductance (umhos/cm at 25°C)	54	0	N/A				1866	9982	16814	20340	23759	28030	32059
Water Temperature (°C)	54	0	>32	0	0		3.3	6.5	12.2	17.6	26	29.6	31.2
Other													
Chlorophyll a (ug/L)	52	0	>40	9	17.3	92.8	1	8	12	22	35	48	130
TSS (mg/L)	18	2	N/A				6.2	6.2	8.8	10.5	17.2	18.8	26
Turbidity (NTU)	53	0	>25	0	0		1.1	2.6	3.7	5.6	8.3	12.2	22
Nutrients (mg/L)													
NH3 as N	54	42	N/A				0.02	0.02	0.02	0.02	0.02	0.14	0.21
NO2 + NO3 as N	54	38	N/A				0.02	0.02	0.02	0.02	0.05	0.55	1.9
TKN as N	52	0	N/A				0.37	0.62	0.76	0.94	1.1	1.3	2
Total Phosphorus	54	0	N/A				0.02	0.03	0.04	0.06	0.09	0.14	0.22
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
52	10.7		1	1.9									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: PANTEGO CRK AT NC 92 AT BELHAVEN

Station #: O9751000

Hydrologic Unit Code: 03020104

Latitude: 35.54248

Longitude: -76.63630

Stream class: SC NSW

Agency: NCAMBNT

NC stream index: 29-34-34-(2)

Time period: 01/15/2008 to 12/05/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<5	5	8.3		3.8	5.5	6.7	9.3	10.1	11.5	12.7
pH (SU)	59	0	<6.8	11	18.6	96.9	5.4	6.6	6.9	7.5	7.8	8.3	8.5
	59	0	>8.5	0	0		5.4	6.6	6.9	7.5	7.8	8.3	8.5
Salinity (ppt)	60	0	N/A				2.48	4.55	7.36	11.46	14.32	16.85	19.93
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				4532	8135	12826	19272	23714	27488	31986
Water Temperature (°C)	60	0	>32	0	0		3.1	6.6	13.4	20.5	27.4	29.2	31.6
Other													
Chlorophyll a (ug/L)	58	0	>40	13	22.4	99.6	1	6	11	20	35	54	120
TSS (mg/L)	20	2	N/A				6.2	6.3	7.8	9.4	24.8	39.1	45
Turbidity (NTU)	59	0	>25	2	3.4		2	3.3	5	6.9	9.4	17	37
Nutrients (mg/L)													
NH3 as N	60	28	N/A				0.02	0.02	0.02	0.02	0.1	0.15	0.29
NO2 + NO3 as N	60	24	N/A				0.02	0.02	0.02	0.06	0.33	1.39	2.6
TKN as N	59	0	N/A				0.53	0.66	0.81	0.97	1.1	1.4	1.8
Total Phosphorus	60	0	N/A				0.03	0.03	0.04	0.06	0.09	0.13	0.19
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
58	12.5		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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: VAN SWAMP AT NC 32 NR HOKE

Station #: O9755000

Hydrologic Unit Code: 03020104

Latitude: 35.73038

Longitude: -76.74653

Stream class: C Sw NSW

Agency: NCAMBNT

NC stream index: 29-34-34-(1)

Time period: 01/09/2008 to 12/10/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	N/A				0.9	1.4	3.3	5.9	7.3	8.5	10.1
pH (SU)	60	0	<4.3	44	73.3	> 99.9	3	3.3	3.5	3.7	4.4	5.6	6.6
	60	0	>9	0	0		3	3.3	3.5	3.7	4.4	5.6	6.6
Salinity (ppt)	60	0	N/A				0.01	0.03	0.04	0.06	0.07	0.11	0.13
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				58	86	109	144	164	208	278
Water Temperature (°C)	60	0	>32	0	0		2.5	7	10.9	15.5	20.9	23.6	24.7
Other													
Hardness (mg/L)	11	0	N/A				14	14	15	16	24	29	30
TSS (mg/L)	20	12	N/A				6.2	6.2	6.2	6.6	12	16.5	18
Turbidity (NTU)	60	0	>50	3	5		1.2	1.8	2.7	6	13	28.9	210
Nutrients (mg/L)													
NH3 as N	59	9	N/A				0.02	0.02	0.06	0.13	0.54	2	3.6
NO2 + NO3 as N	59	21	N/A				0.02	0.02	0.02	0.05	0.36	2.5	6.9
TKN as N	58	0	N/A				0.71	0.96	1.1	1.4	2.35	4.21	5.9
Total Phosphorus	59	12	N/A				0.02	0.02	0.02	0.03	0.06	0.19	0.52
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
58	27.9		2	3.4									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: Canal A at Allen Rd and South Lake Rd at Pungo NWR

Station #: O9757230

Hydrologic Unit Code: 03020104

Latitude: 35.68840

Longitude: -76.52530

Stream class: C Sw NSW

Agency: NCSPST

NC stream index: 29-34-2-1

Time period: 01/02/2008 to 07/19/2010

	#	#		Results not meeting EL			Percentiles						
	results	ND	EL	#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	62	0	N/A				2	3.2	4.3	5.8	7.4	8.5	9.3
pH (SU)	62	0	<4.3	53	85.5	> 99.9	2.3	3.1	3.5	3.8	3.9	4.4	5.4
	62	0	>9	0	0		2.3	3.1	3.5	3.8	3.9	4.4	5.4
Salinity (ppt)	62	0	N/A				0.02	0.02	0.03	0.05	0.06	0.07	0.08
Spec. conductance (umhos/cm at 25°C)	62	0	N/A				73	76	93	120	135	157	182
Water Temperature (°C)	62	0	>32	0	0		4	9.2	11.3	17.5	24.5	27.7	30.8
Other													
TSS (mg/L)	62	37	N/A				6.2	6.2	6.2	6.2	12	45.3	675
Nutrients (mg/L)													
NH3 as N	61	1	N/A				0.02	0.04	0.07	0.1	0.2	0.45	0.9
NO2 + NO3 as N	61	44	N/A				0.02	0.02	0.02	0.02	0.02	0.06	0.48
TKN as N	59	0	N/A				1.6	1.8	1.9	2.1	2.4	3	6.8
Total Phosphorus	61	0	N/A				0.03	0.04	0.06	0.07	0.12	0.19	0.82
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
61	8.9		2	3.3									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: Canal A beside Allen Rd NW of Rose Acres Farms nr Ponzer

Station #: O9757250

Hydrologic Unit Code: 03020104

Latitude: 35.65190

Longitude: -76.53390

Stream class: C Sw NSW

Agency: NCSPST

NC stream index: 29-34-2-1

Time period: 01/02/2008 to 07/19/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	62	0	N/A				2	2.9	4.2	6	7.4	8.7	9.9
pH (SU)	62	0	<4.3	53	85.5	> 99.9	3	3.3	3.6	3.8	3.9	4.4	4.9
	62	0	>9	0	0		3	3.3	3.6	3.8	3.9	4.4	4.9
Salinity (ppt)	62	0	N/A				0.02	0.03	0.04	0.05	0.06	0.07	0.13
Spec. conductance (umhos/cm at 25°C)	62	0	N/A				76	88	99	119	145	165	272
Water Temperature (°C)	62	0	>32	0	0		3.9	7.1	10.7	16.9	23.9	26.4	28.8
Other													
TSS (mg/L)	62	48	N/A				6.2	6.2	6.2	6.2	6.6	12	47
Nutrients (mg/L)													
NH3 as N	61	0	N/A				0.02	0.03	0.05	0.09	0.2	0.53	1.2
NO2 + NO3 as N	61	30	N/A				0.02	0.02	0.02	0.02	0.1	0.44	1.4
TKN as N	59	0	N/A				1.6	1.7	1.8	2	2.3	3	3.7
Total Phosphorus	61	0	N/A				0.02	0.04	0.04	0.06	0.09	0.2	0.33
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
61	62.7		11	18									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: Canal A beside Allen Rd SW of Rose Acres Farms nr Ponzer

Station #: 09757270

Hydrologic Unit Code: 03020104

Latitude: 35.63460

Longitude: -76.53790

Stream class: C Sw NSW

Agency: NCSPT

NC stream index: 29-34-2-1

Time period: 01/02/2008 to 07/19/2010

	#	#	Results not meeting EL				Percentiles						
	results	ND	EL	#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	62	0	N/A				4.1	4.9	6.1	7.4	8.7	10.3	13.2
pH (SU)	62	0	<4.3	42	67.7	> 99.9	3.4	3.6	3.7	4	4.8	5.9	6.7
	62	0	>9	0	0		3.4	3.6	3.7	4	4.8	5.9	6.7
Salinity (ppt)	62	0	N/A				0.03	0.04	0.04	0.05	0.06	0.08	0.15
Spec. conductance (umhos/cm at 25°C)	62	0	N/A				77	96	108	126	151	177	309
Water Temperature (°C)	62	0	>32	0	0		3.5	6.8	10.9	17.5	24.6	27.2	30.9
Nutrients (mg/L)													
NH3 as N	61	6	N/A				0.02	0.02	0.03	0.09	0.16	0.32	1.4
NO2 + NO3 as N	61	7	N/A				0.02	0.02	0.03	0.09	0.59	1.64	6.3
TKN as N	59	0	N/A				0.61	1.5	1.8	2	2.3	2.7	4.3
Total Phosphorus	61	0	N/A				0.02	0.04	0.05	0.06	0.1	0.22	0.9

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: Canal B beside Boerma Rd NE of Rose Acres Farms nr Ponzer

Station #: O9757350

Hydrologic Unit Code: 03020104

Latitude: 35.64980

Longitude: -76.51620

Stream class: C Sw NSW

Agency: NCSPST

NC stream index: 29-34-2-2

Time period: 01/02/2008 to 07/19/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	62	0	N/A				1.8	2.2	3.2	5.5	8.2	10	11.5
pH (SU)	62	0	<4.3	31	50	> 99.9	3.2	3.5	3.7	4.2	5.3	6	6.3
	62	0	>9	0	0		3.2	3.5	3.7	4.2	5.3	6	6.3
Salinity (ppt)	62	0	N/A				0.03	0.03	0.04	0.04	0.06	0.09	0.23
Spec. conductance (umhos/cm at 25°C)	62	0	N/A				79	90	96	112	133	187	451
Water Temperature (°C)	62	0	>32	0	0		3.4	6.1	10.3	16.1	23.2	25.7	28
Other													
TSS (mg/L)	62	40	N/A				6.2	6.2	6.2	6.2	11.2	16.4	41
Nutrients (mg/L)													
NH3 as N	61	1	N/A				0.02	0.05	0.15	0.24	0.6	1.36	3.8
NO2 + NO3 as N	61	27	N/A				0.02	0.02	0.02	0.03	0.19	0.57	1.5
TKN as N	59	0	N/A				1.2	1.5	2.1	2.4	3	4.3	7.2
Total Phosphorus	61	0	N/A				0.04	0.05	0.07	0.12	0.24	0.44	0.78
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
61	83.8		8	13.1									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: Unnamed Canal to Canal B at Rose Acres Farms nr Ponzer

Station #: O9757359

Hydrologic Unit Code: 03020104

Latitude: 35.64080

Longitude: -76.51850

Stream class: C Sw NSW

Agency: NCSPST

NC stream index: 29-34-2-2

Time period: 01/02/2008 to 07/06/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	55	0	N/A				1.2	2.4	3.6	6.4	9.5	11.4	13.2
pH (SU)	55	0	<4.3	0	0		5	5.3	5.6	6.1	6.5	6.8	7.1
	55	0	>9	0	0		5	5.3	5.6	6.1	6.5	6.8	7.1
Salinity (ppt)	55	0	N/A				0.05	0.07	0.08	0.09	0.11	0.12	0.15
Spec. conductance (umhos/cm at 25°C)	55	0	N/A				113	159	175	199	232	257	306
Water Temperature (°C)	55	0	>32	0	0		0.8	5.8	9.2	15.7	21.8	25	27.4
Other													
TSS (mg/L)	55	13	N/A				6.2	6.2	6.2	14	29	84.8	215
Nutrients (mg/L)													
NH3 as N	54	4	N/A				0.02	0.02	0.05	0.21	0.47	0.79	3.2
NO2 + NO3 as N	54	10	N/A				0.02	0.02	0.07	1.4	5.77	10.35	18
TKN as N	52	0	N/A				0.94	1.5	1.73	2.1	2.77	6.33	15
Total Phosphorus	54	0	N/A				0.06	0.07	0.12	0.25	0.64	1.25	2.7
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400:		%Conf:							
54	130.8		15	27.8		89.3							

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: Canal B beside Boerma Rd SE of Rose Acres Farms nr Ponzer

Station #: O9757370

Hydrologic Unit Code: 03020104

Latitude: 35.63190

Longitude: -76.52040

Stream class: C Sw NSW

Agency: NCSPST

NC stream index: 29-34-2-2

Time period: 01/02/2008 to 07/19/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	62	0	N/A				3	4.4	4.9	6.2	9	10.1	11.6
pH (SU)	62	0	<4.3	25	40.3	> 99.9	3.5	3.8	4	4.5	6	6.5	6.9
	62	0	>9	0	0		3.5	3.8	4	4.5	6	6.5	6.9
Salinity (ppt)	62	0	N/A				0.03	0.03	0.04	0.05	0.09	0.38	6.14
Spec. conductance (umhos/cm at 25°C)	62	0	N/A				78	86	103	125	193	731	10782
Water Temperature (°C)	62	0	>32	0	0		3.3	6.5	10.4	16.5	24.6	27.4	31
Other													
TSS (mg/L)	62	28	N/A				6.2	6.2	6.2	7.3	12	19.4	40
Nutrients (mg/L)													
NH3 as N	61	2	N/A				0.02	0.08	0.12	0.21	0.36	0.69	1.4
NO2 + NO3 as N	61	10	N/A				0.02	0.02	0.02	0.26	1.25	2.34	5
TKN as N	59	0	N/A				1.2	1.8	1.9	2.3	2.6	3.6	4.7
Total Phosphorus	61	0	N/A				0.04	0.06	0.07	0.11	0.17	0.42	0.6
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
61	115.1		12	19.7									

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 greater than 10% (20% for Fecal Coliform)

Stations with less than 10 results or less than or equal to 10% (20% Fecal Coliform) exceedance for a given parameter were not evaluated for statistical confidence

Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: Canal B at NC 45 nr Ponzer

Station #: O9757395

Hydrologic Unit Code: 03020104

Latitude: 35.60040

Longitude: -76.52920

Stream class: C Sw NSW

Agency: NCSPST

NC stream index: 29-34-2-2

Time period: 01/02/2008 to 07/19/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	62	0	N/A				3.4	3.8	4.6	6.6	8.3	9.7	11.3
pH (SU)	62	0	<4.3	15	24.2	99.9	3.1	3.9	4.3	4.8	6.1	6.5	6.8
	62	0	>9	0	0		3.1	3.9	4.3	4.8	6.1	6.5	6.8
Salinity (ppt)	62	0	N/A				0.03	0.04	0.05	0.1	1.25	5.48	11.12
Spec. conductance (umhos/cm at 25°C)	62	0	N/A				93	106	122	213	2336	9704	18805
Water Temperature (°C)	62	0	>32	0	0		2.9	7.5	11.7	18.6	26.1	28.7	31.8
Other													
TSS (mg/L)	62	41	N/A				6.2	6.2	6.2	6.2	10.2	13.7	23
Nutrients (mg/L)													
NH3 as N	61	2	N/A				0.02	0.08	0.11	0.18	0.27	0.4	0.58
NO2 + NO3 as N	61	3	N/A				0.02	0.04	0.1	0.22	1.05	2.92	5.8
TKN as N	59	0	N/A				1	1.3	1.7	2.1	2.3	2.7	4.1
Total Phosphorus	61	0	N/A				0.03	0.05	0.06	0.1	0.13	0.17	0.3
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
61	64.1		7	11.5									

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 greater than 10% (20% for Fecal Coliform)

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: Canal D beside DeHoog Rd at Pungo NWR

Station #: O9757540

Hydrologic Unit Code: 03020104

Latitude: 35.65680

Longitude: -76.47840

Stream class: C Sw NSW

Agency: NCSPST

NC stream index: 29-34-2-5

Time period: 01/02/2008 to 07/19/2010

	#	#	Results not meeting EL				Percentiles						
	results	ND	EL	#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	62	0	N/A				2.2	3.2	3.8	5.2	7.2	8.8	9.5
pH (SU)	62	0	<4.3	61	98.4	> 99.9	3	3.3	3.5	3.6	3.8	3.9	5.9
	62	0	>9	0	0		3	3.3	3.5	3.6	3.8	3.9	5.9
Salinity (ppt)	62	0	N/A				0.02	0.04	0.05	0.05	0.06	0.07	0.14
Spec. conductance (umhos/cm at 25°C)	62	0	N/A				74	103	116	130	148	165	285
Water Temperature (°C)	62	0	>32	1	1.6		3.4	7	10.6	17.3	25.5	29	32.3
Nutrients (mg/L)													
NH3 as N	61	0	N/A				0.04	0.08	0.11	0.18	0.42	0.53	2.1
NO2 + NO3 as N	61	44	N/A				0.02	0.02	0.02	0.02	0.02	0.04	0.1
TKN as N	59	0	N/A				0.46	2.1	2.4	2.8	3.1	3.5	4.6
Total Phosphorus	61	0	N/A				0.02	0.04	0.06	0.11	0.16	0.26	0.54

Key:

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources
Basinwide Assessment Report

Location: Canal D beside DeHoog Rd nr Ponzer

Station #: O9757580

Hydrologic Unit Code: 03020104

Latitude: 35.60640

Longitude: -76.49010

Stream class: C Sw NSW

Agency: NCSPST

NC stream index: 29-34-2-5

Time period: 01/02/2008 to 07/19/2010

	#	#	Results not meeting EL				Percentiles						
	results	ND	EL	#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	62	0	N/A				1.7	2.3	3.1	5.6	7.9	9.7	11.4
pH (SU)	62	0	<4.3	27	43.5	> 99.9	3.2	3.5	3.8	4.5	5.7	6.3	6.5
	62	0	>9	0	0		3.2	3.5	3.8	4.5	5.7	6.3	6.5
Salinity (ppt)	62	0	N/A				0.04	0.04	0.05	0.06	0.06	0.08	0.17
Spec. conductance (umhos/cm at 25°C)	62	0	N/A				94	105	114	134	147	181	352
Water Temperature (°C)	62	0	>32	0	0		3.2	7	10.5	16.8	23.6	27.5	29.8
Nutrients (mg/L)													
NH3 as N	61	2	N/A				0.02	0.07	0.11	0.18	0.29	0.58	5
NO2 + NO3 as N	61	24	N/A				0.02	0.02	0.02	0.08	0.59	1.18	4.4
TKN as N	59	0	N/A				0.83	1.3	1.8	2	2.2	2.5	7
Total Phosphorus	61	0	N/A				0.03	0.05	0.06	0.08	0.13	0.21	0.45

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: PUNGO RIV AT US 264 NR PONZER

Station #: O9758500

Hydrologic Unit Code: 03020104

Latitude: 35.57135

Longitude: -76.50152

Stream class: SB NSW

Agency: NCAMBNT

NC stream index: 29-34-(12)

Time period: 01/15/2008 to 12/05/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	60	0	<5	12	20	98.5	0	3.9	5.2	7.2	8.5	10.3	11.9
pH (SU)	59	0	<6.8	33	55.9	> 99.9	5	5.9	6.2	6.6	7	7.2	7.5
	59	0	>8.5	0	0		5	5.9	6.2	6.6	7	7.2	7.5
Salinity (ppt)	60	0	N/A				0.19	2.29	3.44	6.33	9.55	13.57	17.1
Spec. conductance (umhos/cm at 25°C)	60	0	N/A				384	4199	6214	11117	16336	22580	27819
Water Temperature (°C)	60	0	>32	0	0		3.2	7.7	12.2	19.4	26.4	29.5	31.1
Other													
Chlorophyll a (ug/L)	58	4	>40	2	3.4		1	2	4	11	19	29	130
TSS (mg/L)	20	12	N/A				6.2	6.2	6.2	8.1	12	21.2	24
Turbidity (NTU)	59	0	>25	1	1.7		2.4	3.9	4.3	5.8	7.8	15	32
Nutrients (mg/L)													
NH3 as N	60	9	N/A				0.02	0.02	0.04	0.11	0.19	0.29	1.3
NO2 + NO3 as N	59	9	N/A				0.02	0.02	0.06	0.12	0.69	1.3	2.4
TKN as N	59	0	N/A				0.6	0.89	1.1	1.3	1.6	1.8	3.4
Total Phosphorus	60	0	N/A				0.03	0.04	0.05	0.06	0.08	0.12	0.3
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:		# > 400:	% > 400: %Conf:									
58	33.3		3	5.2									

Key:

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: PAMLICO RIV BETWEEN MOUTHS OF PUNGO RIV AND GOOSE CRK MID CHANNEL

Station #: O982500C

Hydrologic Unit Code: 03020104

Latitude: 35.36185

Longitude: -76.58059

Stream class: SA HQW NSW

Agency: NCAMBNT

NC stream index: 29-(27)

Time period: 01/08/2008 to 12/04/2012

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	90	0	<5	0	0		6.1	7.3	7.8	8.7	10.4	11.5	14.2
pH (SU)	90	0	<6.8	0	0		7.4	7.7	7.8	8	8.1	8.2	8.6
	90	0	>8.5	2	2.2		7.4	7.7	7.8	8	8.1	8.2	8.6
Salinity (ppt)	90	0	N/A				4.85	7.55	12.98	15.57	17.81	20.03	22.36
Spec. conductance (umhos/cm at 25°C)	90	0	N/A				8632	13125	21662	25602	28904	32098	35474
Water Temperature (°C)	90	0	>32	0	0		1.9	7.3	11.4	19.6	25.9	29	30.3
Other													
Chlorophyll a (ug/L)	84	0	>40	1	1.2		2	5	6	10	15	22	80
TSS (mg/L)	20	6	N/A				6.2	6.2	6.3	10.4	16.2	19.8	22
Turbidity (NTU)	90	2	>25	0	0		1	1.5	2.2	2.9	4.4	6.4	16
Nutrients (mg/L)													
NH3 as N	90	88	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.04
NO2 + NO3 as N	90	80	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.17
TKN as N	89	1	N/A				0.2	0.39	0.46	0.55	0.64	0.7	1.2
Total Phosphorus	89	0	N/A				0.02	0.03	0.03	0.04	0.05	0.07	0.09
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:			# > 400:	% > 400:	%Conf:	Median	# > 43	% > 43	%Conf			
88	1.1			0	0		1	0	0				

Key:

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%Conf : States the percent statistical confidence that the actual percentage of exceedances is greater than 10% (20% for Fecal Coliform)

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: PAMLICO RIV BETWEEN MOUTHS OF PUNGO RIV AND GOOSE CRK N SHORE

Station #: O982500N

Hydrologic Unit Code: 03020104

Latitude: 35.37737

Longitude: -76.55960

Stream class: SA HQW NSW

Agency: NCAMBNT

NC stream index: 29-(27)

Time period: 01/08/2008 to 08/10/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	62	0	<5	0	0		6.6	7.1	7.7	8.6	10.2	11.4	14.3
pH (SU)	62	0	<6.8	0	0		7.5	7.6	7.7	7.8	8	8.1	8.6
	62	0	>8.5	1	1.6		7.5	7.6	7.7	7.8	8	8.1	8.6
Salinity (ppt)	62	0	N/A				5.82	8.37	13.76	16.45	19.61	20.99	22.89
Spec. conductance (umhos/cm at 25°C)	62	0	N/A				10260	14436	22838	26908	31461	33505	36236
Water Temperature (°C)	62	0	>32	0	0		2.3	7.1	10.9	19.6	26.4	29	29.8
Other													
TSS (mg/L)	10	2	N/A				6.2	6.3	7.3	12.5	18.5	27.8	28
Turbidity (NTU)	62	2	>25	1	1.6		1	1.5	1.9	3.2	4.2	5.9	28
Nutrients (mg/L)													
NH3 as N	62	57	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.04
NO2 + NO3 as N	62	55	N/A				0.02	0.02	0.02	0.02	0.02	0.05	0.16
TKN as N	61	0	N/A				0.31	0.36	0.41	0.55	0.63	0.69	0.96
Total Phosphorus	61	0	N/A				0.02	0.03	0.03	0.04	0.04	0.06	0.08
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:			Median	# > 43	% > 43	%Conf			
62	1	0	0				1	0	0				

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Ambient Monitoring System Station Summaries

NCDENR, Division of Water Resources

Basinwide Assessment Report

Location: PAMLICO RIV BETWEEN MOUTHS OF PUNGO RIV AND GOOSE CRK S SHORE

Station #: O982500S

Hydrologic Unit Code: 03020104

Latitude: 35.34017

Longitude: -76.59578

Stream class: SA HQW NSW

Agency: NCAMBNT

NC stream index: 29-(27)

Time period: 01/08/2008 to 08/10/2010

	# results	# ND	EL	Results not meeting EL			Percentiles						
				#	%	%Conf	Min	10th	25th	50th	75th	90th	Max
Field													
D.O. (mg/L)	62	0	<5	0	0		5.7	7.1	7.6	8.6	10.4	11.7	14
pH (SU)	62	0	<6.8	1	1.6		6.4	7.6	7.8	8	8.1	8.2	8.5
	62	0	>8.5	0	0		6.4	7.6	7.8	8	8.1	8.2	8.5
Salinity (ppt)	62	0	N/A				5.2	7.58	10.59	16.28	18.89	20.14	21.8
Spec. conductance (umhos/cm at 25°C)	62	0	N/A				9227	13167	18001	26643	30499	32273	34678
Water Temperature (°C)	62	0	>32	0	0		1.7	6.9	10.8	19.4	26.7	28.9	30.1
Other													
TSS (mg/L)	11	5	N/A				6.2	6.2	6.8	12	18	21.2	22
Turbidity (NTU)	62	2	>25	0	0		1	1.6	2.1	3.2	4.6	5.5	12
Nutrients (mg/L)													
NH3 as N	62	61	N/A				0.02	0.02	0.02	0.02	0.02	0.02	0.05
NO2 + NO3 as N	62	54	N/A				0.02	0.02	0.02	0.02	0.02	0.03	0.2
TKN as N	60	0	N/A				0.22	0.39	0.47	0.56	0.64	0.7	1.1
Total Phosphorus	61	0	N/A				0.02	0.03	0.03	0.04	0.05	0.06	0.08
Fecal Coliform Screening(#/100mL)													
# results:	Geomean:	# > 400:	% > 400:	%Conf:			Median	# > 43	% > 43	%Conf			
62	1.2	0	0				1	0	0				

Key:

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