Table 4. Chowan River, North Carolina Shoreline Attributes - Riparian Land Use and Bank and Buffer Conditions - Plate Summary

					RI	PARIAN	LAND USE					TREE						BAI	NK										BUFFE	R CONDI	TION	
PLATE	TOTAL					(mil	es)					FRINGE				(ba	nk height	and erosion	status - r	niles of s	shore)				BA	NK COVE	R	BEACH P	RESENT	MAR	SH PRESE	NT
NUMBER	MILES									scrub-		(miles)		0-5 ft			5-10 ft			10-30 f	ft		>30 ft			(miles)		(mil	les)		(miles)	
	SURVEYED	agriculture	bare	commercial	forest	grass	industrial	paved	residential	shrub	swamp		low	high	undercut	low	high	undercut	low	high	undercut	low	high	undercut	bare	partial	full	eroding	stable	eroding	stable	fringe
1	2.50	0.00	0.00	0.00	0.00	0.42	0.00	0.00	1.66	0.00	0.43	0.34	1.54	0.70	0.00	0.22	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	0.00	0.49	0.00	0.00	0.00
2	7.05	0.60	0.03	0.30	0.29	1.55	0.00	0.21	1.57	0.00	2.50	0.28	4.30	2.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.05	0.10	0.00	0.00	0.00	0.01
3	5.68	0.00	0.00	0.29	0.00	0.45	0.00	0.09	0.42	0.00	4.44	0.11	3.52	2.07	0.00	0.04	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.68	0.00	0.00	0.00	0.00	0.02
4	3.38	0.00	0.00	0.89	0.00	0.00	0.00	0.19	0.09	0.00	2.21	0.00	1.17	2.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.38	0.00	0.16	0.00	0.00	0.03
5	2.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.73	0.00	0.00	2.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.73	0.00	0.00	0.00	0.00	0.07
6	4.33	0.58	0.00	0.22	0.00	0.08	0.00	0.04	0.09	0.00	3.32	0.02	0.46	3.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.33	0.00	0.00	0.00	0.00	0.03
7	2.93	0.00	0.00	0.10	0.00	0.00	0.00	0.03	0.00	0.00	2.80	0.00	0.13	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.93	0.00	0.00	0.00	0.00	0.00
8	2.70	0.11	0.00	0.08	0.19	0.13	0.00	0.00	0.44	0.00	1.75	0.08	0.44	2.03	0.00	0.11	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	2.67	0.07	0.05	0.03	0.00	0.00
9	2.67	0.00	0.00	0.26	0.23	0.18	0.00	0.03	1.92	0.05	0.00	0.03	1.19	0.00	0.00	0.52	0.11	0.00	0.74	0.11	0.00	0.00	0.00	0.00	0.00	0.04	2.64	0.00	0.43	0.00	0.00	0.00
10	3.02	0.12	0.00	0.00	0.13	0.12	0.00	0.00	2.30	0.00	0.35	0.12	1.10	0.50	0.00	0.53	0.03	0.00	0.86	0.00	0.00	0.00	0.00	0.00	0.03	0.10	2.90	0.00	0.35	0.00	0.00	0.00
11	4.63	0.36	0.00	0.07	0.26	0.50	0.00	0.13	0.78	0.02	2.51	0.11	1.17	0.64	1.97	0.77	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.05	4.58	0.00	0.00	0.00	0.00	0.00
12	3.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.63	0.00	0.00	2.57	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.63	0.00	0.00	0.03	0.00	0.00
13	5.58	0.04	0.00	0.00	0.05	0.00	0.00	0.00	0.30	0.90	4.29	0.04	0.00	3.31	1.75	0.00	0.00	0.00	0.22	0.30	0.00	0.00	0.00	0.00	0.00	0.12	5.46	0.00	0.00	0.30	0.00	0.05
14	5.20	0.09	0.00	0.00	0.32	0.02	0.00	0.02	1.03	0.08	3.64	0.09	0.35	3.69	0.00	0.13	0.00	0.00	0.85	0.15	0.00	0.02	0.02	0.00	0.00	0.25	4.95	0.00	0.00	0.13	0.00	0.00
15	5.16	0.00	0.00	0.00	0.15	0.00	0.00	0.02	0.00	0.88	4.11	0.00	0.17	4.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.16	0.00	0.00	0.25	0.00	0.36
16	5.16	0.00	0.00	0.08	0.00	0.03	0.00	0.00	0.07	0.21	4.76	0.03	0.04	4.08	0.00	0.00	0.60	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.04	0.09	5.03	0.00	0.00	0.14	0.00	0.40
17	5.56	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00	4.95	0.25	0.05	4.96	0.00	0.00	0.18	0.00	0.11	0.25	0.00	0.00	0.00	0.00	0.00	0.12	5.44	0.00	0.00	0.10	0.00	0.02
18	6.38	0.29	0.00	0.01	0.00	0.00	0.00	0.11	0.49	0.00	5.48	0.00	1.01	5.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.38	0.00	0.00	0.15	0.00	0.03
19	5.69	0.00	0.00	0.05	0.40	0.17	0.00	0.37	0.72	0.00	3.98	0.45	1.09	3.59	0.00	0.17	0.02	0.00	0.31	0.52	0.00	0.00	0.00	0.00	0.04	0.22	5.42	0.00	0.00	0.00	0.00	0.07
20	4.52	0.00	0.00	0.00	0.30	0.49	0.00	0.28	0.53	0.00	2.92	0.08	0.75	2.23	0.00	0.11	0.00	0.00	0.61	0.82	0.00	0.00	0.00	0.00	0.04	0.50	3.97	0.00	0.14	0.00	0.00	0.03
21	3.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.32	0.00	0.00	0.00	3.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.32	0.00	0.00	0.00	0.00	0.00
22	2.87	0.00	0.00	0.13	0.15	0.00	0.00	0.00	0.32	0.00	2.27	0.00	0.53	0.00	2.20	0.04	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.07	0.04	2.76	0.11	0.51	0.00	0.00	0.00
23	2.65	0.13	0.00	0.09	1.26	0.16	0.00	0.00	0.96	0.04	0.00	0.13	0.65	0.00	0.00	0.43	0.00	0.00	0.43	1.03	0.00	0.05	0.07	0.00	1.19	0.35	1.11	0.79	1.55	0.00	0.08	0.08
24	2.61	0.38	0.00	0.00	0.13	0.00	0.00	0.05	1.91	0.00	0.15	0.32	1.00	0.15	0.00	0.36	0.00	0.00	0.15	0.80	0.00	0.09	0.07	0.00	0.78	0.55	1.28	0.74	1.59	0.00	0.00	0.00
25	2.84	1.42	0.00	0.00	0.09	0.12	0.00	0.00	0.84	0.00	0.37	0.15	0.73	0.54	0.00	0.22	0.00	0.00	0.35	0.99	0.00	0.00	0.00	0.00	0.34	0.88	1.61	1.24	1.12	0.00	0.00	0.00
26	2.62	0.93	0.00	0.00	0.20	0.00	0.00	0.00	0.41	0.00	1.08	0.19	0.29	1.08	0.00	0.01	1.13	0.00	0.04	0.08	0.00	0.00	0.00	0.00	0.07	1.18	1.37	1.18	0.29	0.00	0.00	0.00
27	3.12	0.19	0.00	0.00	0.59	0.00	0.00	0.04	1.82	0.27	0.22	0.19	0.80	0.43	0.00	0.00	0.58	0.00	1.14	0.19	0.00	0.00	0.00	0.00	0.14	0.79	2.19	1.08	1.18	0.00	0.00	0.00
28	4.44	0.39	0.75	0.00	1.74	0.00	0.33	0.00	0.45	0.00	0.79	0.39	0.91	1.17	0.00	0.98	0.83	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00	1.58	2.86	0.83	1.49	0.00	0.00	0.00
29	4.15	0.22	2.01	0.00	0.90	0.00	0.33	0.00	0.00	0.00	0.70	0.22	0.74	1.08	0.00	2.01	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	2.01	2.14	0.00	2.30	0.00	0.00	0.00
Total	105.86	5.70	2.04	2.50	5.88	3.96	0.33	1.31	18.59	2.45	63.10	15.80	21.61	54.65	8.89	5.70	3.39	0.00	6.05	5.27	0.00	0.15	0.16	0.00	2.68	7.77	95.41	6.00	10.21	1.10	0.08	2.95
<u>-</u>																																

Table 5. Chowan River, North Carolina Shoreline Attributes - Shoreline Features - Plate Summary

PLATE	TOTAL								SHODEL	INE FEATURE	:0						
NUMBER	MILES	No.	No.	No.	No. r	amps	No.	No.		arinas	No.	Miles of	Miles of	Miles of	Miles of	Miles of	Miles of
NOWBER	SURVEYED	docks	dilapidated docks		private	public	outfalls	groinfields	<50 slips	>50 slips	jetties	debris	unconventional	bulkhead	dilapidated bulkhead	riprap	wharf
1	OOKVETED	docks	unapidated docks	boatilouses	private	public	Outidiis	grommetas	<00 3lip3	>50 3llp3	jetties	debits	unconventional	builticau	unapidated builtifead	Πριαρ	Wilaii
1	2.50	11	3	21	1	0	0	6	0	0	2	0.00	0.00	1.61	0.03	0.08	0.00
2	7.05	19	0	4	1	0	2	0	1	1	0	0.00	0.00	1.56	0.00	0.30	0.00
3	5.68	9	0	3	2	0	0	0	1	1	0	0.00	0.01	0.26	0.00	0.02	0.00
4	3.38	2	1	0	0	2	0	0	0	0	0	0.00	0.00	0.41	0.00	0.35	0.24
5	2.73	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
6	4.33	3	0	0	1	0	0	0	1	0	0	0.00	0.00	0.03	0.00	0.15	0.00
7	2.93	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
8	2.70	6	2	3	1	1	0	0	0	0	0	0.00	0.09	0.44	0.00	0.01	0.00
9	2.67	42	1	19	9	0	0	9	0	0	0	0.00	0.00	1.43	0.00	0.12	0.00
10	3.02	58	1	18	2	0	0	4	0	0	0	0.00	0.00	1.52	0.00	0.32	0.00
11	4.63	14	2	4	1	1	0	1	0	0	2	0.00	0.03	0.74	0.00	0.15	0.00
12	3.63	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
13	5.58	2	0	0	1	0	0	0	0	0	0	0.00	0.00	0.12	0.00	0.00	0.00
14	5.20	16	8	10	1	1	0	0	0	0	0	0.00	0.00	0.48	0.00	0.02	0.00
15	5.16	1	0	0	0	1	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
16	5.16	4	0	0	0	1	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.07
17	5.56	7	2	11	0	0	0	0	0	0	0	0.00	0.00	0.09	0.01	0.00	0.00
18	6.38	3	0	0	0	3	0	0	0	0	0	0.00	0.00	0.31	0.00	0.02	0.00
19	5.69	20	6	5	4	3	2	0	2	0	0	0.05	0.03	0.29	0.01	0.21	0.00
20	4.52	13	2	4	1	3	2	0	1	0	0	0.00	0.00	0.18	0.01	0.30	0.00
21	3.32	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
22	2.87	3	1	0	0	0	0	1	0	0	0	0.00	0.02	0.27	0.00	0.00	0.00
23	2.65	7	2	1	1	0	1	1	0	0	2	0.00	0.00	0.29	0.00	0.35	0.00
24	2.61	16	1	4	4	0	0	1	0	0	0	0.00	0.00	0.37	0.00	0.24	0.00
25	2.84	11	1	1	3	0	0	0	0	0	0	0.00	0.01	0.30	0.00	0.02	0.00
26	2.62	0	0	0	0	0	0	2	0	0	0	0.00	0.00	0.17	0.00	0.02	0.00
27	3.12	7	3	7	3	0	0	0	0	0	0	0.00	0.00	1.06	0.00	0.09	0.00
28	4.44	1	0	3	0	0	0	1	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
29	4.15	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
Total	105.86	257	33	115	33	13	5	26	5	1	6	0.05	0.20	11.45	0.06	2.55	0.31

Table 6. Chowan River, North Carolina Shoreline Attributes - *Phragmites australis*, and Survey Dates.

PLATE NUMBER	TOTAL MILES SURVEYED	FIELD SURVEY DATES	PHRAGMITES (miles)	PLATE NUMBER	TOTAL MILES SURVEYED	FIELD SURVEY DATES	PHRAGMITES (miles)	PLATE NUMBER	TOTAL MILES SURVEYED	FIELD SURVEY DATES	PHRAGMITES (miles)
1 2 3 4 5 6 7 8 9	2.50 7.05 5.68 3.38 2.73 4.33 2.93 2.70 2.67 3.02	10/12/2005, 5/3/2006 10/12/2005 10/12/2005 10/12/2005 10/12/2005 10/12/2005 10/12/2005 10/12/2005 10/12/2005 10/12/2005 10/12/2005	0.00 0.00 0.13 0.00 0.00 0.01 0.00 0.00	11 12 13 14 15 16 17 18 19 20	4.63 3.63 5.58 5.20 5.16 5.16 5.56 6.38 5.69 4.52	10/11-12/2005, 5/2/2006 10/11/2005, 5/2/2006 10/11/2005, 5/2/2006 10/11/2005 10/11/2005 10/11/2005 10/11/2005 10/11/2005 10/11/2005 10/11/2005, 10/13/2005	0.00 0.00 0.00 0.00 0.00 0.00 0.25 0.29 0.00 0.00	21 22 23 24 25 26 27 28 29	3.32 2.87 2.65 2.61 2.84 2.62 3.12 4.44 4.15	5/2/2006 5/2/2006 5/2/2006 5/2/2006 5/2-3/2006 5/3/2006 5/3/2006 5/3/2006 5/3/2006	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0

Total miles Phragmites australis: 0.62

## Table 7. List of Photos

## **CHOWAN RIVER**

PLATE	# on the map	PHOTO NAME
Plate 1c	1	Photo 1
Plate 2c	2	Photo_2
	3	Photo_3
	4	Photo 4
	5	Photo_5
	6	Photo_6
Plate 3c	7	Photo_7
Plate 14c	8	Photo 8
Plate 15c	9	Photo 9
Plate 16c	10	<u>Photo_10</u>
Plate 17c	11	Photo_11
	12	<u>Photo_12</u>
Plate 18c	12	Photo_12
	13	<u>Photo_13</u>
	14	<u>Photo_14</u>
	15	<u>Photo_15</u>
Plate 19c	16	<u>Photo_16</u>
	17	<u>Photo_17</u>
	18	<u>Photo_18</u>
Plate 20c	17	<u>Photo_17</u>
	18	<u>Photo_18</u>
Plate 22c	19	<u>Photo_19</u>
Plate 23c	20	Photo_20
Plate 29c	21	<u>Photo_21</u>