Table 4. Mathews County, Virginia Shoreline Attributes 2008 - Riparian Land Use - Watershed Summary

														RIPAI	RIAN LA	ND USE (m	niles)												
MATHEWS	TOTAL		AGRI	CULTURE		BARE		COM	MERCIAL			FOREST			G	RASS			P	AVED		RESIDENTIAL				SCRUB-SHRUB			
WATERSHED	MILES		tree	fringe with				tree	fringe with						tree	fringe with			tree	fringe with			tree	fringe with			tree	fringe with	
	SURVEYED		fringe	canopy	total		no tree	fringe	canopy	total	no canopy	canopy	total	no tree		canopy	total	no tree		canopy	total	no tree	fringe	canopy	total	no tree	fringe	canopy	total
		buffer	only	overhang		buffer	buffer	only	overhang		overhang	overhang		buffer	only	overhang		buffer	only	overhang		buffer	only	overhang		buffer	only	overhang	
Blackwater Creek	13.32	0.34	0.73	0.03	1.10	0.00	0.20	0.07	0.00	0.27	4.40	1.19	5.59	0.20	0.35	0.00	0.55	0.00	0.00	0.00	0.00	1.84	2.06	0.57	4.47	1.35	0.00	0.00	1.35
Chesapeake Bay	12.33	0.00	0.00	0.00	0.00	0.88	0.19	0.03	0.00	0.22	1.14	0.00	1.14	0.17	0.02	0.00	0.19	0.20	0.00	0.00	0.20	2.60	0.30	0.00	2.90	6.80	0.00	0.00	6.80
Cobbs Creek	4.69	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.03	0.09	0.87	0.47	1.34	0.12	0.42	0.00	0.54	0.00	0.00	0.00	0.00	0.70	1.58	0.11	2.39	0.33	0.00	0.00	0.33
Davis Creek	2.96	0.26	0.12	0.00	0.38	0.00	0.48	0.00	0.00	0.48	0.37	0.25	0.62	0.08	0.08	0.00	0.16	0.00	0.00	0.00	0.00	0.89	0.30	0.04	1.22	0.09	0.00	0.00	0.09
Dyer Creek	6.22	0.04	0.15	0.00	0.19	0.00	0.05	0.00	0.00	0.05	0.93	0.01	0.94	0.26	0.08	0.00	0.34	0.36	0.00	0.00	0.36	1.27	0.07	0.00	1.34	2.92	0.08	0.00	3.00
East River	56.32	1.00	2.45	1.22	4.67	0.00	0.29	0.00	0.14	0.43	8.15	5.54	13.69	3.28	5.09	0.02	8.39	0.41	0.21	0.00	0.62	8.61	11.40	5.31	25.32	3.05	0.00	0.16	3.21
Garden Creek	14.36	0.10	0.00	0.00	0.10	0.07	0.00	0.00	0.00	0.00	7.82	0.08	7.90	0.26	0.00	0.00	0.26	1.71	0.00	0.00	1.71	0.20	0.03	0.00	0.23	4.10	0.00	0.00	4.10
Gwynn Island	19.42	0.00	0.00	0.00	0.00	0.74	1.10	0.02	0.00	1.12	1.17	0.03	1.21	0.81	0.47	0.00	1.28	0.79	0.11	0.00	0.90	7.99	3.16	0.08	11.23	2.95	0.00	0.00	2.95
Harper Creek	2.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06	0.00	1.06	0.04	0.00	0.00	0.04	0.83	0.00	0.00	0.83	0.00	0.00	0.00	0.00	0.89	0.00	0.09	0.98
Horn Harbor	27.42	0.34	0.26	0.00	0.60	0.04	0.25	0.00	0.08	0.33	5.99	0.01	6.01	0.60	1.13	0.00	1.73	0.16	0.00	0.00	0.16	4.34	5.52	0.02	9.88	8.39	0.14	0.14	8.67
Lanes Creek	3.63	0.00	0.16	0.05	0.21	0.00	0.07	0.00	0.00	0.07	0.64	0.13	0.77	0.00	0.02	0.00	0.02	0.02	0.00	0.00	0.02	0.91	0.97	0.01	1.90	0.49	0.00	0.14	0.63
Milford Haven	6.02	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.01	0.37	1.77	0.35	2.12	0.15	0.06	0.00	0.21	0.04	0.00	0.00	0.04	1.40	0.35	0.02	1.76	1.19	0.21	0.12	1.52
Mobjack Bay	9.07	0.14	0.42	0.00	0.56	0.26	0.00	0.00	0.00	0.00	1.87	0.09	1.97	0.29	0.02	0.00	0.31	0.00	0.22	0.00	0.22	1.58	0.79	0.02	2.39	3.37	0.00	0.00	3.37
North River	36.30	0.78	1.41	0.29	2.48	0.00	0.02	0.00	0.00	0.02	12.21	1.72	13.93	1.94	2.75	0.00	4.69	0.20	0.24	0.00	0.44	3.76	5.61	0.80	10.17	4.55	0.00	0.02	4.57
Pepper Creek	9.00	0.15	0.33	0.12	0.60	0.00	0.00	0.00	0.00	0.00	3.80	0.00	3.80	0.37	0.10	0.00	0.47	0.18	0.10	0.00	0.28	1.19	0.77	0.02	1.98	1.87	0.00	0.00	1.87
Piankatank River	16.69	0.00	0.05	0.00	0.05	0.11	0.00	0.00	0.00	0.00	5.67	0.79	6.46	2.38	0.70	0.00	3.08	0.13	0.08	0.00	0.21	2.60	2.46	0.06	5.12	1.53	0.13	0.00	1.66
Put In Creek	7.87	0.04	0.14	0.06	0.24	0.00	0.04	0.03	0.00	0.07	1.09	0.63	1.72	0.38	0.69	0.00	1.07	0.15	0.04	0.01	0.20	0.74	1.91	1.73	4.37	0.12	0.08	0.00	0.20
Queens Creek	11.12	0.00	0.00	0.00	0.00	0.03	0.03	0.00	0.02	0.05	2.10	0.11	2.21	0.54	0.84	0.01	1.39	0.00	0.00	0.00	0.00	3.18	3.01	0.85	7.04	0.38	0.01	0.02	0.41
Rigby Island	3.91	0.00	0.00	0.00	0.00	3.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sloop Creek	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.15	0.63	0.12	0.17	0.00	0.30	0.00	0.00	0.00	0.00	0.51	0.29	0.33	1.13	0.14	0.00	0.00	0.14
Stoakes Creek	9.10	0.00	0.06	0.00	0.06	0.00	0.06	0.00	0.00	0.06	3.27	0.00	3.27	0.32	0.00	0.00	0.32	0.06	0.00	0.00	0.06	0.40	0.23	0.00	0.63	4.70	0.00	0.00	4.70
Stutts Billups Creek	27.94	0.04	0.33	0.00	0.37	0.13	0.20	0.00	0.04	0.24	4.67	1.87	6.54	1.76	1.24	0.00	3.00	0.33	0.25	0.00	0.58	5.69	4.06	4.67	14.42	2.51	0.15	0.01	2.67
Winter Harbor	38.14	0.00	0.00	0.00	0.00	0.93	0.14	0.00	0.00	0.14	8.13	0.00	8.13	0.88	0.84	0.00	1.72	0.19	0.00	0.00	0.19	2.09	2.45	0.00	4.54	21.50	0.98	0.01	22.49
Total	340.92	3.23	6.61	1.77	11.62	7.10	3.54	0.15	0.32	4.01	77.61	13.43	91.03	14.95	15.05	0.03	30.04	5.76	1.25	0.01	7.02	52.51	47.29	14.62	114.42	73.23	1.78	0.71	75.72

Table 5. Mathews County, Virginia Shoreline Attributes 2008 - Riparian Bank Condition - Watershed Summary

													В	ANK												
												(bank he	ight and erosion	on status - n	niles of shor	e)										
MATHEWS WATERSHED	TOTAL MILES SURVEYED	0-5 FEET						5-10 FEET						10-30 FEET							>30 FEET					
	SORVETED	erosional	erosional undercut	stable	stable undercut	transitional	transitional undercut	erosional	erosional undercut	stable	stable undercut	transitional	transitional undercut	erosional	erosional undercut	stable	stable undercut	transitional	transitional undercut	erosional	erosional undercut	stable	stable undercut	transitional	transitional undercut	
Blackwater Creek	13.32	1.07	0.65	11.46	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Chesapeake Bay	12.33	7.39	0.00	4.28	0.00	0.00	0.04	0.10	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Cobbs Creek	4.69	0.03	0.00	2.74	0.09	0.05	0.02	0.00	0.04	1.28	0.22	0.00	0.05	0.00	0.04	0.10	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	
Davis Creek	2.96	0.00	0.03	2.90	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Dyer Creek	6.22	3.33	0.03	2.68	0.00	0.16	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
East River	56.32	0.45	1.97	52.43	0.00	0.93	0.40	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Garden Creek	14.36	0.17	0.00	14.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Gwynn Island	19.42	3.93	0.23	14.05	0.00	0.00	0.00	0.02	0.00	1.05	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Harper Creek	2.89	0.00	0.00	2.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Horn Harbor	27.42	1.03	0.11	26.21	0.00	0.03	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Lanes Creek	3.63	0.36	0.00	3.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Milford Haven	6.02	0.07	0.00	5.85	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Mobjack Bay	9.07	0.13	0.00	8.82	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
North River	36.30	0.53	0.73	34.70	0.00	0.28	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Pepper Creek	9.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Piankatank River	16.69	0.10	0.31	8.90	0.11	0.15	0.05	0.13	0.04	4.08	0.10	0.23	0.12	0.19	0.04	1.93	0.00	0.03	0.00	0.10	0.00	0.10	0.00	0.00	0.00	
Put In Creek	7.87	0.45	0.58	6.63	0.00	0.15	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Queens Creek	11.12	0.24	0.49	8.26	0.00	0.00	0.08	0.11	0.19	1.65	0.00	0.02	0.04	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Rigby Island	3.91	3.63	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Sloop Creek	2.20	0.03	0.00	2.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Stoakes Creek	9.10	0.00	0.00	8.98	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Stutts Billups Creek	27.94	0.13	0.06	26.89	0.30	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Winter Harbor	38.14	4.33	0.00	33.42	0.00	0.00	0.00	0.02	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total	340.92	27.40	5.19	291.00	0.62	2.58	0.67	0.40	0.27	9.29	0.32	0.25	0.21	0.19	0.08	2.21	0.00	0.04	0.02	0.10	0.00	0.10	0.00	0.00	0.00	

Table 6. Mathews County, Virginia Shoreline Attributes 2008 - Riparian Buffer Condition, *Phragmites australis* and Survey Dates - Watershed Summary

							NA	TURAL BUFF	ER					
MATHEWS	TOTAL		BANK COVER	₹				(miles)		PHRAGMITES	MILES			
WATERSHED	MILES SURVEYED		(miles)		DEAGU			MA	RSH		REMOTELY	FIELD SURVEY DATES		
		bare	partial	full	BEACH	embayed		extensive fringe <5		fringe 10-15	fringe >15	(miles)	SURVEYED	
Blackwater Creek	13.32	0.80	0.81	11.71	0.00	0.12	0.00	6.90	1.48	0.23	2.48	0.27	0.67	June 16 & 23, 2008
Chesapeake Bay	12.33	0.75	3.59	7.99	8.15	0.00	2.89	0.78	0.83	0.67	0.83	4.24	0.76	June 17, 19, 24, & 26, 2008
Cobbs Creek	4.69	0.00	0.45	4.24	0.06	0.07	0.00	1.84	0.04	0.00	0.00	0.00	0.00	June 18, 2008
Davis Creek	2.96	0.00	0.00	2.96	0.00	0.00	0.00	1.09	0.88	0.39	0.05	0.32	0.03	June 20, 2008
Dyer Creek	6.22	0.00	0.01	6.21	0.10	0.00	2.70	1.26	1.55	0.23	0.29	1.96	0.63	June 26, 2008
East River	56.32	1.23	1.60	53.50	0.29	0.47	0.77	32.45	7.01	1.68	5.10	0.67	8.97	June 6, 9, 16, & 20, 2008
Garden Creek	14.36	0.05	0.00	14.30	0.07	0.00	13.46	0.46	0.08	0.04	0.30	0.00	14.34	no field survey
Gwynn Island	19.42	1.12	1.47	16.83	5.37	0.04	0.00	7.11	0.33	0.17	1.38	0.11	1.04	June 10, 2008
Harper Creek	2.89	0.00	0.00	2.89	0.00	0.00	2.65	0.25	0.00	0.00	0.00	0.42	0.25	June 20, 2008
Horn Harbor	27.42	0.43	0.11	26.88	0.33	0.80	5.62	14.18	2.13	0.97	1.07	1.19	0.23	June 24 & 26, 2008
Lanes Creek	3.63	0.17	0.02	3.44	0.20	0.06	0.00	2.66	0.17	0.01	0.03	0.07	0.11	June 11, 2008
Milford Haven	6.02	0.07	0.00	5.95	1.09	0.05	0.76	2.36	0.45	0.07	0.44	0.42	1.04	June 11, 12, 17, & 18, 2008
Mobjack Bay	9.07	0.26	0.00	8.81	0.66	0.04	3.16	0.81	1.27	0.51	2.18	1.42	1.49	June 20 & 26, 2008
North River	36.30	0.51	0.64	35.15	0.93	0.11	3.17	19.09	3.73	1.14	5.06	0.58	9.76	June 16, 18, & 23, 2008
Pepper Creek	9.00	0.00	0.00	9.00	0.00	0.14	3.11	1.50	1.15	0.45	2.65	0.14	0.23	June 20, 2008
Piankatank River	16.69	0.49	1.39	14.80	5.02	0.19	0.34	5.32	0.26	0.00	0.15	0.07	1.77	June 10, 18, & 26, 2008
Put In Creek	7.87	0.11	0.28	7.47	0.00	0.00	0.00	5.12	0.88	0.15	0.34	0.02	0.58	June 6 & 9, 2008
Queens Creek	11.12	0.54	0.29	10.29	0.34	0.14	0.00	6.55	0.64	0.20	0.40	0.19	1.07	June 11 & 18, 2008
Rigby Island	3.91	2.98	0.00	0.93	3.55	0.00	0.00	0.00	0.00	0.00	0.88	0.00	0.00	June 10 & 17, 2008
Sloop Creek	2.20	0.00	0.00	2.20	0.00	0.04	0.00	1.19	0.58	0.15	0.07	0.00	0.17	June 20, 2008
Stoakes Creek	9.10	0.00	0.00	9.10	0.00	0.00	5.71	0.30	0.42	0.39	1.99	0.27	0.08	June 17, 2008
Stutts Billups Creek	27.94	0.00	0.34	27.61	1.85	0.48	2.02	10.65	2.76	1.04	3.16	0.46	3.64	June 12 & 17, 2008
Winter Harbor	38.14	0.23	0.80	37.12	1.23	0.87	23.45	5.88	2.33	1.15	2.31	1.41	14.75	June 19 & 26, 2008
Total	340.92	9.73	11.81	319.38	29.24	3.62	69.81	127.73	28.98	9.65	31.18	14.23	61.60	

Table 7. Mathews County, Virginia Shoreline Attributes 2008 - Shoreline Features - Watershed Summary

MATHEWS WATERSHED	TOTAL										SHORELIN	E FEATURES							
	MILES	No.	No.	No.	No.	o. ramps	No.	No.	No. m	narinas	No.	No.	Miles of	Miles of	Miles of	Miles of	Miles of	Miles of	Miles o
	SURVEYED	docks	dilapidated docks	boathouses	private	public	outfalls	groinfields	<50 slips	>50 slips	jetties	breakwater sets	debris	unconventional	bulkhead	dilapidated bulkhead	marsh_toe	riprap	wharf
Blackwater Creek	13.32	51	5	5	4	0	0	0	0	1	0	0	0.00	0.00	0.06	0.00	0.03	0.58	0.00
Chesapeake Bay	12.33	23	2	1	2	0	3	1	0	1	0	1	0.00	0.00	0.19	0.07	0.08	0.32	0.00
Cobbs Creek	4.69	58	2	7	1	0	0	0	3	0	1	0	0.04	0.01	0.31	0.03	0.10	0.98	0.00
Davis Creek	2.96	13	2	3	5	0	0	0	2	0	0	0	0.14	0.00	0.05	0.02	0.00	0.07	0.24
Dyer Creek	6.22	14	3	2	4	0	0	0	0	0	0	0	0.00	0.01	0.09	0.00	0.03	0.04	0.00
East River	56.32	287	23	37	19	1	0	0	2	0	0	5	0.26	0.53	0.99	0.05	0.35	4.43	0.13
Garden Creek	14.36	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Gwynn Island	19.42	176	3	14	6	1	5	16	3	1	3	4	0.15	0.07	1.71	0.29	0.27	5.73	0.00
Harper Creek	2.89	2	0	0		0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Horn Harbor	27.42	120	7	11	7	0	1	0	1	1	0	0	0.21	0.08	0.43	0.04	0.08	0.78	0.00
Lanes Creek	3.63	27	3	5	1	0	1	0	0	0	0	0	0.03	0.01	0.16	0.01	0.02	0.19	0.00
Milford Haven	6.02	20	4	1	2	0	0	2	0	0	0	1	0.00	0.11	0.29	0.00	0.02	0.88	0.04
Mobjack Bay	9.07	32	0	1	2	0	0	0	0	0	0	0	0.07	0.00	0.00	0.00	0.03	0.95	0.00
North River	36.30	97	4	16	7	0	0	0	0	0	2	1	0.10	0.05	0.49	0.00	0.43	1.70	0.05
Pepper Creek	9.00	16	0	1	1	0	0	0	0	0	0	0	0.05	0.00	0.00	0.04	0.00	0.18	0.00
Piankatank River	16.69	99	3	14	2	0	1	9	0	0	6	5	0.02	0.05	0.93	0.01	0.50	4.29	0.00
Put In Creek	7.87	49	2	6	0	1	0	0	0	0	0	0	0.07	0.06	0.25	0.03	0.02	0.40	0.00
Queens Creek	11.12	155	2	26	4	0	4	1	1	0	0	1	0.05	0.05	1.04	0.00	0.24	1.60	0.00
Rigby Island	3.91	0	0	0		0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sloop Creek	2.20	13	0	1	1	0	0	0	0	0	0	0	0.04	0.00	0.00	0.00	0.00	0.00	0.00
Stoakes Creek	9.10	7	1	0	2	0	0	0	1	0	0	0	0.00	0.07	0.14	0.00	0.00	0.09	0.00
Stutts Billups Creek	27.94	169	3	48	11	0	0	2	3	0	1	1	0.04	0.24	1.08	0.30	0.30	3.25	0.00
Winter Harbor	38.14	45	3	1	1	1	0	0	1	0	0	0	0.00	0.01	0.09	0.00	0.00	0.07	0.00
Total	340.92	1473	72	200	82	4	15	31	17	4	13	19	1.26	1.35	8.29	0.89	2.48	26.53	0.46