

RIVER SYSTEM	Field Surveyed (miles)	Remote Surveyed (miles)	Total Miles Surveyed (field + remote)	FIELD SURVEY DATES
Fourmile Creek	3.54	3.73	7.27	June 4, 2012 and VBMP 2011 imagery
James River	50.25	11.53	61.78	June 4, 2012 and VBMP 2011 imagery
Turkey Island Creek	1.21	3.11	4.32	June 4, 2012 and VBMP 2011 imagery
Total	55	18.37	73.37	

RIVER SYSTEM	TOTAL* MILES SURVEYED	AGRICULTURE				BARE				COMMERCIAL				FOREST			GRASS				INDUSTRIAL				MILITARY				PAVED			
		no tree buffer	tree fringe only	fringe with canopy over- hang	total	no tree buffer	tree fringe only	fringe with canopy over- hang	total	no tree buffer	tree fringe only	fringe with canopy over- hang	total	no canopy over- hang	canopy over- hang	total	no tree buffer	tree fringe only	fringe with canopy over- hang	total	no tree buffer	tree fringe only	fringe with canopy over- hang	total	no tree buffer	tree fringe only	fringe with canopy over- hang	total				
Fourmile Creek	7.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.78	0.35	7.13	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			
James River	61.78	0.78	0.43	5.32	6.53	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.27	23.50	21.65	45.15	2.99	0.98	1.04	5.01	0.40	0.14	0.37	0.91	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.19
Turkey Island Creek	4.32	0.00	0.26	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.52	0.59	3.11	0.00	0.95	0.00	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total	73.37	0.78	0.69	5.32	6.79	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.27	32.80	22.59	55.39	3.03	1.93	1.04	6.00	0.40	0.14	0.37	0.91	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.19

RIVER SYSTEM	TOTAL* MILES SURVEYED	RESIDENTIAL				SCRUB-SHRUB			
		no tree buffer	tree fringe only	fringe with canopy over- hang	total	no tree buffer	tree fringe only	fringe with canopy over- hang	total
Fourmile Creek	7.27	0.01	0.03	0.00	0.04	0.06	0.00	0.00	0.06
James River	61.78	0.84	0.24	0.37	1.45	2.23	0.00	0.03	2.26
Turkey Island Creek	4.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	73.37	0.85	0.27	0.37	1.49	2.29	0.00	0.03	2.32

\*Total = field + remote surveys (does not include marsh island shoreline)

Table 6. Henrico County, Virginia Shoreline Attributes - Riparian Bank Condition - River System Summary

RIVER SYSTEM	TOTAL* MILES SURVEYED	BANK COVER (miles)			BANK HEIGHT AND EROSION STATUS (miles of shore)																			
		bare	partial	full	0-5 FEET					5-10 FEET					10-30 FEET					>30 FEET				
					erosional/ erosional	undercut	stable	transitional	transitional/ undercut	erosional/ erosional	undercut	stable	transitional	transitional/ undercut	erosional/ erosional	undercut	stable	transitional	transitional/ undercut	erosional/ erosional	undercut	stable	transitional	transitional/ undercut
Fourmile Creek	7.27	0.00	0.00	7.27	2.28	0.05	4.92	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
James River	61.78	0.46	3.08	58.23	15.94	0.41	35.46	1.61	0.00	5.05	0.16	1.54	0.35	0.00	1.18	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Turkey Island Creek	4.32	0.00	0.08	4.24	0.59	0.08	3.65	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
Total	73.37	0.46	2.81	69.74	18.81	0.54	44.03	1.63	0.00	5.05	0.16	1.54	0.35	0.00	1.18	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00

\*Total = field + remote surveys (does not include marsh island shoreline)

Table 7. Henrico County, Virginia Shoreline Attributes - Natural Buffers, *Phragmites australis* and Marsh Survey Dates - River System Summary

RIVER SYSTEM	BEACH (miles)	# Wetland Polygons		Marsh Type (acres)					MARSH												PHRAGMITES <sup>3</sup> (percent of field checked marshes)	MARSH SURVEY DATES	
									Community Type <sup>1</sup> (acres)														
		total	field checked	embayed	extensive	fringe	marsh island	total	I	II	III	IV	V	VI	VII	VIII <sup>2</sup>	IX	X	XI	XII			DNS <sup>**</sup>
Fourmile Creek	0.00	20	10	0.00	21.68	9.80	0.19	31.67	0.00	0.00	0.00	0.00	0.00	0.00	2.67	0.00	0.00	0.00	22.94	0.00	6.05	0	June 4, 2012
James River	1.14	161	138	2.33	37.61	39.10	0.76	79.80	0.00	0.00	0.00	0.00	0.00	2.57	0.17	0.00	0.00	0.00	36.99	0.00	40.07	7	June 4, 2012
Turkey Island Creek	0.00	7	5	0.00	35.23	0.04	0.12	35.39	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	32.79	0.00	2.57	0	June 4, 2012
Total	1.14	188	153	2.33	94.52	48.94	1.07	146.86	0.00	0.00	0.00	0.00	0.00	2.57	2.87	0.00	0.00	0.00	92.72	0.00	48.69		

\*\*DNS = Did Not Survey

<sup>1</sup>Community Type:  
I = Saltmarsh Cordgrass / low marsh  
II = Saltmeadow / high marsh  
III = Black Needlerush  
IV = Saltbush  
V = Big Cordgrass  
VI = Cattail

VII = Arrow Arum – Pickerel Weed  
VIII = Reed Grass (*Phragmites australis*)  
IX = Yellow Pond Lily  
X = Saltwort  
XI = Freshwater mix  
XII = Brackish mix

<sup>2</sup>Type VIII - Field checked marshes where *Phragmites australis* was estimated to cover >50% marsh area.

<sup>3</sup>Phragmites - percent of field checked marshes where *Phragmites australis* is present in any amount.

Table 8. Henrico County, Virginia Shoreline Attributes - Shoreline Features - River System Summary

RIVER SYSTEM	TOTAL* MILES SURVEYED	No.										Miles of			Miles of		Miles of riprap	Miles of wharf
		No. docks	dilapidated docks	No. boathouses	No. ramps		No. groinfields	No. marinas		No. jetties	No. breakwater <sup>1</sup>	Miles of debris	Miles of unconventional	Miles of bulkhead	dilapidated bulkhead	marsh toe revetment		
Fourmile Creek	7.27	1	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
James River	61.78	19	0	5	1	3	0	3	0	0	0	0.00	0.01	0.09	0.00	0.00	0.55	0.06
Turkey Island Creek	4.32	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	73.37	20	0	5	1	3	0	3	0	0	0	0.00	0.01	0.09	0.00	0.00	0.55	0.06

\*Total = field + remote surveys (does not include marsh island shoreline)

<sup>1</sup> number of breakwater groups (one or more breakwaters within a group)