

Table 4. City of Poquoson, Virginia Shoreline Attributes - Miles Surveyed and Inventory Dates - River System Summary

RIVER SYSTEM	Total Miles Surveyed	Original Survey Dates	FIELD SURVEY DATES
			Inventory Updated - 2013
Back River	32.26	6/30/1999	using VBMP 2011 imagery/Bing high resolution oblique imagery
Bennett Creek	39.48	6/28-29/1999	using VBMP 2011 imagery/Bing high resolution oblique imagery
Chesapeake Bay	70.53	remote coded	using VBMP 2011 imagery/Bing high resolution oblique imagery
Northwest Branch Back River	21.15	6/30/1999	using VBMP 2011 imagery/Bing high resolution oblique imagery
Poquoson River	6.37	6/14/1999, 6/28/1999	using VBMP 2011 imagery/Bing high resolution oblique imagery
Roberts Creek	7.18	6/14/1999, 6/28/1999	using VBMP 2011 imagery/Bing high resolution oblique imagery
Total	176.97		

Table 5. City of Poquoson, Virginia Shoreline Attributes - Riparian Land Use (miles) - River System Summary

RIVER SYSTEM	TOTAL* MILES SURVEYED	AGRICULTURE			BARE			COMMERCIAL			FOREST total	GRASS			INDUSTRIAL			PAVED			RESIDENTIAL			SCRUB-SHRUB			EXTENSIVE MARSH total
		no tree buffer	tree fringe	total	no tree buffer	tree fringe	total	no tree buffer	tree fringe	total		no tree buffer	tree fringe	total	no tree buffer	tree fringe	total	no tree buffer	tree fringe	total	no tree buffer	tree fringe	total	no tree buffer	tree fringe	total	
Back River	32.26	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.57	6.64	0.68	0.19	0.88	0.00	0.00	0.00	4.89	0.03	4.91	2.52	0.05	2.57	0.55	0.00	0.55	16.14
Bennett Creek	39.48	0.16	0.32	0.48	0.00	0.00	0.00	1.13	0.00	1.13	14.42	2.79	0.67	3.46	0.00	0.00	0.00	3.60	0.07	3.67	14.64	1.67	16.31	0.00	0.00	0.00	0.00
Chesapeake Bay	70.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.45	0.02	0.00	0.02	0.00	0.00	0.00	0.26	0.10	0.37	0.21	0.00	0.21	0.00	0.00	0.00	62.48
Northwest Branch Back River	21.15	0.30	0.13	0.44	0.00	0.00	0.00	0.15	0.39	0.54	5.73	1.74	0.35	2.08	0.00	0.00	0.00	0.53	0.00	0.53	5.28	1.51	6.79	1.07	0.00	1.07	3.97
Poquoson River	6.37	0.00	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.00	1.04	0.36	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	3.47	1.43	4.90	0.00	0.00	0.00	0.00
Roberts Creek	7.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84	1.12	0.10	1.22	0.00	0.00	0.00	0.08	0.10	0.17	3.60	1.34	4.94	0.00	0.00	0.00	0.00
Total	176.97	0.46	0.51	0.98	0.00	0.00	0.00	1.85	0.39	2.24	36.13	6.71	1.31	8.02	0.00	0.00	0.00	9.36	0.30	9.65	29.72	6.00	35.72	1.62	0.00	1.62	82.59

*Total = does not include marsh island shoreline
Note: Extensive Marsh does not have bank height, cover, or tree fringe associated with it.

Table 6. City of Poquoson, 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	stable	transitional	undercut	erosional	stable	transitional	undercut	erosional	stable	transitional	undercut	erosional	stable	transitional	undercut
Back River	32.26	0.00	0.00	16.12	0.00	16.12	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
Bennett Creek	39.48	0.00	0.00	39.48	0.00	39.48	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	70.53	0.00	0.00	8.05	0.00	8.05	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
Northwest Branch Back River	21.15	0.00	0.00	17.18	0.00	17.08	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Poquoson River	6.37	0.00	0.00	6.37	0.17	6.20	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
Roberts Creek	7.18	0.00	0.00	7.18	0.02	7.15	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
Total	176.97	0.00	0.00	94.38	0.20	94.08	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

*Total = does not include marsh island shoreline
Note: Extensive Marsh does not have bank height, cover, or tree fringe associated with it.

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

RIVER SYSTEM	BEACH (miles)	# Wetland Polygons field checked		MARSH																	PHRAGMITES ³ (percent of field checked marshes)	MARSH SURVEY DATES
				Marsh Type (acres)					Community Type ¹ (acres)													
total	embayed	extensive	fringe	marsh island	total	I	II	III	IV	V	VI	VII	VIII ²	IX	X	XI	XII	DNS ^{**}				
Back River	1.53	64	16	0.00	1255.30	1.59	0.06	1256.95	1.94	0.00	173.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	328.47	752.92	75	8/13/2013
Bennett Creek	0.00	197	144	0.88	501.80	156.94	5.10	664.72	6.16	0.00	115.57	0.46	0.00	0.00	0.00	0.00	0.00	0.00	56.41	486.12	34	8/12/2013
Chesapeake Bay	1.65	179	1	0.00	2255.31	0.00	14.94	2270.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2270.26	100	8/12/2013
Northwest Branch Back River	0.00	41	21	19.73	366.63	31.18	1.45	418.99	148.65	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	186.29	83.98	52	8/13/2013
Poquoson River	0.05	54	39	1.95	0.00	9.04	0.00	10.99	1.19	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	7.92	1.82	15	7/31/2013 & 8/12/2013
Roberts Creek	0.02	55	14	0.93	0.00	19.49	0.00	20.42	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.65	11.12	43	8/12/2013
Total	3.25	590	235	23.49	4379.05	218.23	21.56	4642.32	158.59	0.00	289.20	0.59	0.00	0.00	0.00	0.00	0.00	0.00	587.74	3606.22		

**DNS = Did Not Survey

¹Community 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

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

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

Table 8. City of Poquoson, Virginia Shoreline Attributes - Shoreline Features - River System Summary

RIVER SYSTEM	TOTAL* MILES SURVEYED	No.																
		No. docks	dilapidated docks	No. boathouses	No. ramps		No. groinfields	No. marinas		No. jetties	No. breakwater ¹	Miles of debris	Miles of unconventional	Miles of bulkhead	Miles of dilapidated bulkhead	Miles of marsh toe revetment	Miles of riprap	Miles of wharf
Back River	32.26	9	4	0	0	5	0	0	0	2	1	0.09	0.00	0.36	0.03	0.00	0.17	0.00
Bennett Creek	39.48	273	1	35	31	5	2	1	2	0	0	0.00	0.00	4.02	0.00	0.16	5.33	0.00
Chesapeake Bay	70.53	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Northwest Branch Back River	21.15	124	0	2	2	2	0	0	0	0	0	0.00	0.04	2.73	0.00	0.00	0.42	0.00
Poquoson River	6.37	83	4	13	11	1	0	0	0	0	1	0.00	0.00	1.06	0.00	0.14	1.87	0.00
Roberts Creek	7.18	75	1	13	4	0	0	0	0	0	0	0.01	0.03	0.78	0.00	0.01	1.29	0.00
Total	176.97	564	10	63	48	13	2	1	2	2	2	0.10	0.07	8.95	0.03	0.30	9.07	0.00

*Total = does not include marsh island shoreline
¹ number of breakwater groups (one or more breakwaters within a group)