

9-2017

Summary Tables: 2017 Henrico County, Virginia Shoreline Inventory

Marcia Berman

Virginia Institute of Marine Science

Karina Nunez

Virginia Institute of Marine Science

Sharon Kileen

Virginia Institute of Marine Science

Tamia Rudnicky


Virginia Institute of Marine Science

Julie G. Bradshaw

Virginia Institute of Marine Science

See next page for additional authors

Follow this and additional works at: <http://publish.wm.edu/reports>

 Part of the [Environmental Indicators and Impact Assessment Commons](#), [Environmental Monitoring Commons](#), and the [Natural Resources Management and Policy Commons](#)

Recommended Citation

Berman, M.R., Nunez, K., Kileen, S., Rudnicky, T., Bradshaw, J., Duhring, K., Brown, K.F., Hendricks, J., Weiss, D., and Hershner, C.H. 2017. Henrico County, Virginia -Shoreline Inventory Report: Methods and Guidelines, SRAMSOEno. 460. Comprehensive Coastal Inventory Program, Virginia Institute of Marine Science, College of William and Mary, Gloucester Point, Virginia, 23062.

This Report is brought to you for free and open access by W&M Publish. It has been accepted for inclusion in Reports by an authorized administrator of W&M Publish. For more information, please contact wmpublish@wm.edu.

Authors

Marcia Berman, Karinna Nunez, Sharon Kileen, Tamia Rudnicki, Julie G. Bradshaw, Karen Duhring, Kallie Brown, Jessica Hendricks, David Weiss, and Carl Hershner

Table 4. Henrico County, Virginia Shoreline Attributes - Riparian Land Use (miles) - River System Summary 2017

RIVER SYSTEM	TOTAL* MILES SURVEYED	AGRICULTURE			BARE			COMMERCIAL			FOREST	GOVERNMENT			GRASS			INDUSTRIAL			PAVED			RESIDENTIAL			SCRUB-SHRUB			TIMBERED		
		no tree buffer	tree fringe	total	no tree buffer	tree fringe	total	no tree buffer	tree fringe	total	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			
Fourmile Creek	6	0	<1	<1	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
James River	61	1	10	11	<1	<1	<1	1	<1	1	40	0	0	0	2	2	4	<1	<1	<1	<1	0	<1	2	2	4	0	0	0			
Turkey Island Creek	3	0	1	1	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Total	70	1	11	12	<1	<1	<1	1	<1	1	48	0	0	0	2	2	4	<1	<1	<1	<1	0	<1	2	3	5	0	0	0			

*Total = upland shoreline only (upland/marsh and upland/water). Does not include marsh/water shoreline.

**tree fringe: When the dominant riparian land use is not forested but a line of trees is maintained along the bank edge, the land use is noted to include a tree fringe. This tree fringe value includes tree fringe and tree fringe > 100 feet wide.

Note: Numbers have been rounded. Summing numbers across rows or down columns may not necessarily equal the exact total whole number shown.

Table 5. Henrico County, Virginia Shoreline Attributes - Riparian Bank Condition - River System Summary 2017

RIVER SYSTEM	TOTAL* MILES SURVEYED	BANK COVER (miles)			BANK HEIGHT (miles)		
		bare	partial	total	0-5 feet	5-30 feet	>30 feet
Fourmile Creek	6	0	0	6	6	0	0
James River	61	<1	4	56	52	8	<1
Turkey Island Creek	3	0	<1	3	3	0	0
Total	70	<1	4	65	62	8	<1

*Total = upland shoreline only (upland/marsh and upland/water). Does not include marsh/water shoreline.

Note: Numbers have been rounded. Summing numbers across rows or down columns may not necessarily equal the exact total whole number shown.

Table 6. Henrico County, Virginia Shoreline Attributes - Natural Buffers, *Phragmites australis* and Marsh Survey Dates - River System Summary 2017

RIVER SYSTEM	BEACH (miles)	# Wetland Polygons		Marsh Type (acres)						MARSH Community Type ¹ (acres)												PHRAGMITES ³ (percent of field checked marshes)	MARSH SURVEY DATES	
		total	field checked	marsh	marsh island	no marsh forested	no marsh sand	no marsh scrub-shrub	total marsh	I	II	III	IV	V	VI	VII	VIII ²	IX	X	XI	XII			DNS**
Fourmile Creek	0	19	10	31	<1	2	0	0	31	0	0	0	0	0	0	3	0	0	0	23	0	8	0	June 4, 2012
James River	2	151	129	78	1	1	0	0	78	0	0	0	0	0	3	<1	0	0	0	37	0	40	6	June 4, 2012
Turkey Island Creek	0	7	5	33	<1	2	0	0	33	0	0	0	0	0	0	<1	0	0	0	31	0	5	0	June 4, 2012
Total	2	177	144	142	1	6	0	0	143	0	0	0	0	0	3	3	0	0	0	91	0	53		

**DNS = Did Not Survey

¹Community Type: I = Saltmarsh Cordgrass / low marsh VII = Arrow Arum – Pickerel Weed
 II = Saltmeadow / high marsh VIII = Reed Grass (*Phragmites australis*)
 III = Black Needlerush IX = Yellow Pond Lily
 IV = Saltbush X = Saltwort
 V = Big Cordgrass XI = Freshwater mix
 VI = Cattail 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 7. Henrico County, Virginia Shoreline Attributes - Shoreline Features - River System Summary 2017

RIVER SYSTEM	TOTAL* MILES SURVEYED	Number										Miles							
		docks	dilapidated docks	boathouses	private ramps	public ramps	<50 slips	>50 slips	wharfs	jetties	bulkhead	dilapidated bulkhead	debris	marsh toe revetment	riprap	unconventional	breakwater	groinfields	
Fourmile Creek	6	2	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
James River	61	34	0	7	7	5	3	0	0	0	<1	<1	0	0	1	<1	0	0	
Turkey Island Creek	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	70	36	1	7	9	5	3	0	0	0	<1	<1	0	0	1	<1	0	0	

*Total = upland shoreline only (upland/marsh and upland/water). Does not include marsh/water shoreline.

Note: Numbers have been rounded. Summing numbers across rows or down columns may not necessarily equal the exact total whole number shown.