

2007

Summary Tables: Westmoreland County, Virginia Shoreline Situation Report

Marcia Berman

Virginia Institute of Marine Science

Harry Berquist

Virginia Institute of Marine Science

Carl Hershner

Virginia Institute of Marine Science

Sharon Killeen


Virginia Institute of Marine Science

Karinna Nunez

Virginia Institute of Marine Science

See next page for additional authors

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

 Part of the [Environmental Monitoring Commons](#), [Natural Resources Management and Policy Commons](#), and the [Water Resource Management Commons](#)

Recommended Citation

Berman, M.R., Berquist, H., Hershner, C.H., Killeen, S., Nunez, K., Rudnicki, T., Schatt, D.E., and D. Weiss, 2007. Westmoreland County Shoreline Situation Report, Special Report in Applied Marine Science and Ocean Engineering No. 395, Comprehensive Coastal Inventory Program, Center for Coastal Resources Management 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, Harry Berquist, Carl Hershner, Sharon Killeen, Karinna Nunez, Tamia Rudnicki, Daniel E. Schatt, and David Weiss

Table 4. Westmoreland County, Virginia Shoreline Attributes - Riparian Land Use and Bank and Buffer Conditions - Plate Summary 2006

PLATE NUMBER	TOTAL MILES SURVEYED	LAND USE									BANK												BANK COVER			BUFFER CONDITION				
											(bank height and erosion status - miles of shore)												(miles)			TREE FRINGE	BEACH PRESENT	MARSH PRESENT		
											0-5 ft			5-10 ft			10-30 ft			>30 ft			bare	partial	full	(miles)	(miles)	(miles)		
low	high	undercut	low	high	undercut	low	high	undercut	low	high	undercut	low	high	undercut	bare	partial	full	(miles)	(miles)	embayed	extensive	fringe								
1	3.42	0.00	0.10	0.13	0.92	0.11	0.00	2.15	0.00	0.00	1.50	0.06	0.03	1.34	0.00	0.00	0.29	0.00	0.00	0.20	0.00	0.00	0.09	0.10	3.22	1.67	0.52	0.00	0.15	1.50
2	3.91	0.00	0.10	0.18	0.09	0.17	0.10	2.58	0.68	0.00	1.91	0.01	0.00	0.98	0.20	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.21	0.33	3.37	1.25	1.88	0.00	0.05	1.04
3	10.50	0.00	0.00	0.92	1.82	0.63	1.82	4.50	0.81	0.00	7.66	0.00	0.00	1.79	0.14	0.00	0.88	0.02	0.00	0.00	0.00	0.00	0.11	0.09	10.29	1.49	2.02	0.08	0.29	4.08
4	7.95	0.32	0.00	0.56	0.47	0.29	0.69	5.62	0.00	0.00	4.18	0.00	0.00	2.91	0.07	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.37	0.35	7.23	3.27	2.62	0.08	0.42	1.85
5	8.72	0.26	0.00	0.13	1.44	0.55	0.38	5.77	0.18	0.00	4.46	0.00	0.00	2.43	0.04	0.00	1.78	0.00	0.00	0.00	0.00	0.00	0.09	0.71	7.92	5.52	0.54	0.47	1.04	4.61
6	2.81	1.29	0.00	0.00	0.91	0.00	0.00	0.24	0.37	0.00	0.89	0.00	0.00	1.52	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.63	0.29	0.89	1.25	1.71	0.26	0.00	0.37
7	3.00	0.24	0.00	0.00	0.86	0.41	0.00	1.37	0.12	0.00	1.32	0.05	0.00	0.93	0.36	0.00	0.04	0.07	0.00	0.00	0.23	0.00	0.67	0.37	1.96	1.37	2.38	0.00	0.00	0.15
8	2.62	0.14	0.00	0.00	2.42	0.06	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.09	0.24	0.00	0.07	0.61	0.00	0.21	0.67	0.00	1.57	0.23	0.83	0.06	1.25	0.13	0.00	0.00
9	2.46	0.00	0.00	0.00	0.97	0.04	0.00	1.46	0.00	0.00	0.08	0.00	0.00	0.20	0.04	0.00	0.52	0.44	0.00	0.43	0.74	0.00	0.65	1.35	0.46	1.46	1.40	0.00	0.00	0.03
10	7.30	1.35	0.00	0.00	2.60	0.05	0.09	2.30	0.90	0.00	3.86	0.00	0.00	1.93	0.42	0.02	0.84	0.19	0.00	0.04	0.00	0.00	0.66	1.16	5.48	2.97	1.86	0.90	0.00	4.19
11	12.34	2.55	0.00	0.00	3.43	0.18	0.00	2.94	3.25	0.00	8.62	0.00	0.00	1.39	1.07	0.00	0.82	0.41	0.00	0.04	0.00	0.00	0.95	0.79	10.60	4.95	2.98	0.26	0.00	7.96
12	11.82	0.79	0.00	0.17	4.01	0.94	0.25	4.81	0.83	0.00	5.47	0.08	0.02	3.49	0.66	0.00	1.93	0.17	0.00	0.00	0.00	0.00	0.55	1.47	9.80	4.45	0.78	0.62	0.29	6.85
13	11.30	1.06	0.00	0.45	4.84	0.45	0.07	3.85	0.60	0.00	6.52	0.00	0.00	2.54	0.09	0.00	1.91	0.06	0.03	0.16	0.00	0.00	0.15	0.79	10.36	4.53	0.00	1.50	0.00	6.35
14	5.53	0.09	0.00	0.00	3.02	0.00	0.01	2.17	0.24	0.00	3.39	0.00	0.00	1.38	0.10	0.00	0.46	0.07	0.00	0.13	0.00	0.00	0.14	0.59	4.80	2.15	0.00	0.50	0.00	3.53
15	11.65	1.57	0.00	0.00	4.09	1.80	0.00	3.02	1.16	0.00	8.99	0.53	0.05	1.21	0.52	0.00	0.27	0.02	0.00	0.07	0.00	0.00	0.73	0.28	10.64	4.73	2.92	0.47	0.06	6.45
16	9.57	0.01	0.13	0.00	0.85	0.04	0.01	7.16	1.37	0.00	7.61	0.14	0.01	1.74	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.50	8.93	6.43	1.86	0.31	1.03	3.79
17	13.41	2.26	0.00	0.03	3.20	0.99	0.00	6.32	0.48	0.13	8.66	0.12	0.07	2.99	0.80	0.33	0.36	0.08	0.00	0.00	0.00	0.00	0.43	2.15	10.83	6.80	0.17	1.23	0.14	7.25
18	9.16	0.19	0.38	0.55	0.66	0.43	0.03	6.37	0.56	0.00	6.39	0.00	0.00	2.67	0.01	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.01	0.46	8.69	3.20	2.60	0.11	0.25	3.08
19	3.67	0.00	0.00	0.43	0.20	0.29	0.00	2.57	0.19	0.00	2.58	0.00	0.00	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.67	0.59	2.27	0.00	0.00	0.00
20	13.46	0.19	0.01	0.09	2.40	1.58	0.00	7.89	1.29	0.00	11.09	0.54	0.15	1.28	0.09	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.68	0.24	12.54	2.91	1.61	0.81	0.07	6.95
21	12.74	0.30	0.00	0.07	6.24	2.16	0.00	3.23	0.75	0.00	7.67	1.04	0.44	1.68	1.14	0.26	0.16	0.29	0.06	0.00	0.00	0.00	1.84	1.08	9.83	1.15	2.46	0.58	0.17	5.28
22	2.61	0.35	0.00	0.00	0.80	0.40	0.00	0.88	0.19	0.00	1.76	0.05	0.00	0.18	0.24	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.50	0.22	1.90	0.33	2.33	0.42	0.04	0.06
23	5.67	0.00	0.00	0.00	0.32	1.14	0.00	2.77	1.45	0.00	4.87	0.16	0.00	0.55	0.06	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	5.48	1.33	1.23	0.10	0.00	1.33
24	15.56	0.19	0.00	1.02	7.19	0.37	0.03	6.54	0.21	0.00	13.54	0.15	0.00	1.80	0.04	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.25	0.40	14.91	2.82	0.76	1.77	0.00	3.54
25	7.47	0.05	0.00	0.24	3.04	0.02	0.04	4.09	0.00	0.00	2.82	0.00	0.00	3.19	0.14	0.08	1.25	0.00	0.00	0.00	0.00	0.00	0.19	1.00	6.28	3.32	0.05	0.83	0.00	2.27
26	2.15	0.00	0.00	0.00	1.56	0.56	0.00	0.03	0.00	0.00	0.35	0.00	0.00	0.37	0.00	0.00	0.51	0.56	0.00	0.08	0.27	0.00	0.29	0.90	0.97	0.51	0.87	0.13	0.00	0.00
27	2.99	0.54	0.00	0.00	0.74	1.00	0.00	0.37	0.34	0.00	2.02	0.00	0.00	0.65	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.09	2.90	1.35	0.39	0.00	0.67	1.15
28	15.23	0.42	0.00	0.00	0.03	0.37	0.00	0.24	14.17	0.00	15.10	0.00	0.00	0.04	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.04	15.19	0.70	0.42	0.00	14.27	0.49
29	3.98	0.65	0.00	0.16	1.41	0.37	0.38	0.71	0.30	0.00	3.45	0.00	0.00	0.44	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.04	3.94	1.05	1.78	0.00	1.33	0.76
30	3.22	0.12	0.02	0.00	0.76	1.05	0.00	0.03	1.24	0.00	3.18	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.22	2.46	1.63	0.26	0.28	1.94
Total*	209.82	14.00	0.58	4.94	58.17	14.95	3.67	83.23	30.16	0.13	140.14	2.77	0.71	39.32	6.51	0.73	13.25	3.11	0.09	1.32	1.88	0.00	12.35	15.08	182.39	69.50	39.45	11.30	19.70	78.63

* Total Shoreline Miles: 262.02

Table 5. Westmoreland County, Virginia Shoreline Attributes - Shoreline Features - Plate Summary 2006

PLATE NUMBER	TOTAL MILES SURVEYED	SHORELINE FEATURES																	
		No. docks	No. dilapidated docks	No. boathouses	No. ramps		No. outfalls	No. groinfields	No. marinas		No. jetties	No. breakwater	Miles of debris	Miles of unconventional	Miles of bulkhead	Miles of dilapidated bulkhead	Miles of riprap	Miles of marsh toe	Miles of wharf
1	3.42	30	0	1	0	0	1	1	1	0	0	0	0.05	0.01	0.84	0.06	0.16	0.00	0.00
2	3.91	38	14	2	0	0	0	4	0	0	0	0	0.00	0.14	1.02	0.06	1.11	0.00	0.00
3	10.50	154	9	10	8	0	3	3	6	1	0	2	0.09	0.04	2.35	0.13	1.84	0.00	0.07
4	7.95	92	4	15	4	2	1	6	1	1	0	3	0.00	0.25	1.95	0.00	1.55	0.00	0.00
5	8.72	101	4	29	9	0	0	1	0	1	0	0	0.00	0.09	1.67	0.00	0.41	0.00	0.00
6	2.81	2	0	0	0	0	0	0	0	0	0	0	0.00	0.04	0.00	0.11	0.15	0.00	0.00
7	3.00	16	3	4	1	1	2	4	0	0	0	0	0.00	0.06	0.98	0.04	0.64	0.00	0.00
8	2.62	0	0	0	0	0	0	1	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	2.46	0	0	0	0	0	0	0	0	0	0	1	0.00	0.00	0.00	0.00	0.20	0.00	0.00
10	7.30	35	0	9	2	1	0	2	1	0	3	2	0.00	0.00	0.35	0.00	0.36	0.00	0.00
11	12.34	39	1	9	2	0	0	3	0	0	1	0	0.00	0.01	0.13	0.00	1.28	0.03	0.00
12	11.82	71	9	23	5	0	0	1	1	0	0	0	0.00	0.02	0.54	0.00	1.62	0.03	0.06
13	11.30	43	2	16	6	0	0	0	1	0	0	0	0.05	0.04	0.33	0.13	0.44	0.00	0.07
14	5.53	16	0	10	2	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.14	0.00	0.00
15	11.65	46	2	6	28	0	0	5	0	0	0	1	0.00	0.00	0.99	0.00	1.55	0.05	0.00
16	9.57	159	1	10	1	0	1	4	0	0	2	2	0.00	0.10	0.84	0.00	2.89	0.00	0.00
17	13.41	109	2	10	5	0	1	1	2	0	0	0	0.06	0.04	0.69	0.07	1.16	0.00	0.00
18	9.16	149	8	13	6	1	3	11	3	0	1	1	0.06	0.14	2.10	0.06	2.15	0.00	0.00
19	3.67	73	5	0	1	0	1	3	0	1	4	0	0.00	0.00	1.42	0.05	0.79	0.00	0.00
20	13.46	202	2	20	22	0	4	8	0	0	0	3	0.06	0.03	2.59	0.10	2.18	0.04	0.00
21	12.74	54	3	6	3	1	1	2	0	0	2	2	0.00	0.03	0.92	0.02	0.95	0.00	0.03
22	2.61	17	1	0	0	0	0	4	0	0	0	0	0.00	0.00	0.46	0.00	0.26	0.00	0.00
23	5.67	59	3	6	3	0	1	7	0	0	2	3	0.00	0.00	1.57	0.25	1.52	0.00	0.00
24	15.56	93	4	19	8	0	2	5	5	1	0	0	0.02	0.40	1.92	0.13	2.08	0.03	0.06
25	7.47	61	2	2	1	0	0	0	0	1	0	0	0.00	0.01	0.45	0.01	0.47	0.00	0.00
26	2.15	1	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	2.99	5	0	1	1	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.11	0.00	0.00
28	15.23	5	0	0	2	0	0	0	0	0	0	0	0.00	0.04	0.07	0.00	0.04	0.00	0.00
29	3.98	10	2	0	4	0	0	0	0	0	0	0	0.04	0.10	0.22	0.00	0.03	0.00	0.00
30	3.22	0	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*	209.82	1498	74	187	115	6	20	64	19	6	15	16	0.40	1.40	21.72	1.07	23.92	0.15	0.30

* Total Shoreline Miles: 262.02

Table 6. Westmoreland County, Virginia Shoreline Attributes 2006 - *Phragmites australis* and Survey Dates.

PLATE NUMBER	TOTAL MILES SURVEYED	MILES REMOTELY SURVEYED	FIELD SURVEY DATES	PHRAGMITES (miles)	PLATE NUMBER	TOTAL MILES SURVEYED	MILES REMOTELY SURVEYED	FIELD SURVEY DATES	PHRAGMITES (miles)	PLATE NUMBER	TOTAL MILES SURVEYED	MILES REMOTELY SURVEYED	FIELD SURVEY DATES	PHRAGMITES (miles)
1	3.42	0.00	10/31/2006	0.00	11	12.34	0.00	7/25-27/06	1.42	21	12.74	0.00	7/11, 12/06	0.61
2	3.91	0.00	8/15/06, 10/31/06	0.21	12	11.82	0.00	7/26, 27/06	0.27	22	2.61	0.00	7/12/2006	0.43
3	10.50	1.60	8/15/06, 10/31/06	0.79	13	11.30	0.00	7/26, 27/06	0.41	23	5.67	0.00	7/12/2006	0.38
4	7.95	0.00	7/31/06, 8/15, 18/06, 10/31/06	0.47	14	5.53	0.00	7/27/2006	0.38	24	15.56	0.00	7/7, 12/06	0.71
5	8.72	0.00	8/18/2006	0.16	15	11.65	0.00	7/25, 26/06	0.77	25	7.47	0.00	7/7/2006	0.20
6	2.81	0.00	7/31/2006	0.08	16	9.57	0.00	7/25/06, 9/15/06	0.26	26	2.15	0.00	7/10/2006	0.00
7	3.00	0.00	7/31/2006	0.29	17	13.41	0.00	7/24, 25/06	0.21	27	2.99	0.00	7/10/2006	0.00
8	2.62	0.00	7/31/2006	0.03	18	9.16	0.00	7/11, 24, 25/06	0.62	28	15.23	0.00	7/10/2006	0.00
9	2.46	0.00	7/31/2006	0.06	19	3.67	0.00	7/11/2006	0.05	29	3.98	0.00	7/10/2006	0.00
10	7.30	0.00	7/27, 31/06	1.24	20	13.46	0.00	7/11, 24/06	0.95	30	3.22	0.00	7/10/2006	0.00

Total miles of *Phragmites australis*: 10.14
 Total Miles Remotely Surveyed: 1.60
 Total Shoreline Miles: 262.02