

COMMONWEALTH of VIRGINIA DEPARTMENT OF HEALTH DIVISION OF SHELLFISH SANITATION

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POTOMAC RIVER: MATTOX CREEK TO CURRIOMAN BAY
Growing Area # 003
Westmoreland County
Shoreline Sanitary Survey

Date: 3 February 2018

Survey Period: November 13, 2017 - January 19, 2018

Total Number of Properties Surveyed: 40

Surveyed By: R.M. Thomas, W.A. McCarty III, & W. I. Barrack III

Section A: GENERAL

This survey area extends from Reference Point 3 at Church Point to Reference Point 4 at Nomini Cliffs, including the Potomac River shoreline between these two points, Bridges Creek, Digwood Swamp, Popes Creek, Popes Creek Swamp, Big Meadow Run, Little Meadow Run and all of their tributaries (within the designated boundary line drawn by the Division of Shellfish Sanitation).

The topography of the area varies in elevations from 10' or less along the shoreline to a maximum of 150' inland. The economy is based primarily on retail trade, professional/ technical services and construction. The population is mostly sparse with moderate concentrations in the various residential subdivisions along the shoreline. The US Census Bureau reported that the population of Westmoreland County showed a 1 percent increase between 2009 and 2017. Two historic sites, George Washington's birthplace and Stratford Hall Plantation (birthplace of Robert E. Lee), are located within the boundary line. Also located in this survey area is Westmoreland State Park. Cabins at Stratford Hall and Westmoreland State Park offer overnight lodging. Additional information about Westmoreland County can be found on the county website at: www.co.westmoreland.va.us.

Meteorological data indicated that the area received a total rainfall of 3.91" for the survey period. A monthly breakdown is as follows:

Nov 13-30, 2017 0.71" December 0.92" Jan 1-19, 2018 2.28"

At the beginning of the survey, inspectors reviewed the available literature from prior reports, public works and online resources to characterize land use, drainage patterns, and established nearshore seawater stations. Properties identified in the previous survey as having sanitary deficiencies or other environmental significance were revisited to evaluate their current status. All roadways and navigable shoreline within the survey boundary were visually inspected to identify potential pollution sources requiring further investigation.



Nearshore seawater stations were established to survey the full extent of waters beyond routine classification stations. Stations were created in closer proximity to the shoreline and farther upstream than routine stations and are intended to evaluate drainage entry points of potential pollution sources. Station data were analyzed to compare relative concentrations of fecal indicator bacteria within the waterway to identify potential onshore sources of contamination. Areas with elevated concentrations of fecal indicator bacteria were surveyed onshore using a property by property approach. Surveyors interviewed occupants and examined properties for evidence of pollution sources within the immediate watershed.

Hydrographic data and sampling times are shown in the table below. Maps of the enterococcus sampling are shown at the conclusion of this report.

	Α	Rainfall in Inches					
Sample Run #		High Tide	Ebb Current	Sampling	Day of	Previous	Previous
dates				time		24	72
						hours	hours
12/7/17	SS	8:44 am	11:32 am – 4:38	11:43-2:16	0.00	0.08	0.01
12/15/17	PC	3:49 am	6:14 am – 11:48	9:41-11:37	0.00	0.00	0.00
12/20/17	PC	7:41 am	10:22 am – 3:09	10:33-12:51	0.00	0.00	0.00
1/16/18	1/16/18 PC 5:51 am		8:22 am – 1:24	9:53-12:11	0.00	0.00	0.00

Copies of Bacteriological and Shellfish Closure data are available at the area office for review. This report lists only those properties that have a sanitary deficiency or other environmental significance. "*DIRECT*" indicates that the significant activity or deficiency has a direct impact on shellfish waters. Data in this report are also made available to local health departments and other agencies to address items that may be out of compliance with their regulatory programs. Copies of VPDES Permits and inspections are available at the Department of Environmental Quality, Tidewater Regional Office (DEQ/TRO).

Copies of the current condemnation notices and maps are available via the Internet at www.vdh.virginia.gov/shellfish/.

SECTION B: SEWAGE POLLUTION SOURCES

	GA #	Field #		Deficiency or Pollution Type	l atituda l	Longitude	Address	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	DSS Staff	Date of Correction	Correction Notes
10	3	W10	1/23/2018	CONTRIBUTES POLLUTION, indirect	38.1594	-76 8786	485 Tobacco Road, Montross, VA 22520	White camping trailer on site appears to be used as residence. 3" flex hose exiting from under structure and is lying on ground surface not hooked to septic tank. No discharge at time of inspection.	NA	Dwelling	N		Westmoreland	WB		
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Shoreline Survey # 003

SECTION C: NONSEWAGE WASTE SITES

	GA #	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Address	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	DSS Staff
8	3	W11	1/23/2018	STORMWATER, direct	38.1864	-76.8948	Avenue, Montross, VA	15" corrugated culvert which drains neighborhood ditches out to Potomac River.	NA	NA	N		Westmoreland	WB

SECTION D: BOATING ACTIVITY

GA #	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Address	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	Boating Activity Type	Number of Wet Slips	NUM BOATS <26'	NUM BOATS >26'	Evidence of Live- Aboards	DSS
1 3	W2	1/23/2018	BOATING ACTIVITY	38.1770	-76.8833	End of Potomac Ave., Montross 22520	Available on site are seasonal slips/moorings, electricity and water.	NA	Marine	Υ		Westmoreland	OPWBAM	7	0	0	N	WB
2 3	W4	1/23/2018	BOATING ACTIVITY	38.1734	-76.8775		Osprey boathouse. Available on site are restrooms, solid waste containers, boat rentals and a dump station.	NA	Marine	Υ		Westmoreland	OPWBAM	2	0	0	NA	WB
7 3	W1	11/16/2017	BOATING ACTIVITY	38.1873	-76.8976	Adjacent to Popes Creek Avenue, Montross, VA 22520	Available on site are 2 seasonal slips/moorings, an in-out concrete ramp and solid waste containers for use by members.	NA	Marine	Υ		Westmoreland	Under Surveillance	2	0	0	N	WB
0 3	W3	1/23/2018	BOATING ACTIVITY	38.1776	-76.8841	Adjacent to 959 Riverview Rd., Montross 22520	,		Marine	N		Westmoreland	Under Surveillance	0	0	0	NA	WB
3 3	W5	1/23/2018	BOATING ACTIVITY	38.1741		Westmoreland State Park, 1650 State Park Rd, Montross, VA 22520	Public In-out ramp.	NA	Marine	Υ		Westmoreland	Under Surveillance	0	0	0	NA	WB

SECTION E: CONTRIBUTES ANIMAL POLLUTION

	6A I	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Address	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	DSS Staff
9	3	W6	1/23/2018	CONTRIBUTES ANIMAL POLLUTION, direct	38.1787	-76.9226	1152 Popes Creek Road, Montross, VA 22520	Present at the time of the survey were 50+ cows located in pasture less than 100 ft from Popes Creek. Neighbors state cows periodically are seen in the Creek. Manure is left on ground surface.	Conv	Agri	N		Westmoreland	WB
4	3	W7	1/23/2018	CONTRIBUTES ANIMAL POLLUTION, indirect	38.1851	-76.9175	-	Present at the time of the survey were 6+ cows, 2 horses, 2 oxen, 2+ hogs, and 5+ sheep. Manure is left on ground surface.	Conv	Public	Y		Westmoreland	WB
5	3	W8	1/23/2018	CONTRIBUTES ANIMAL POLLUTION, indirect	38.1488	-76.8414	Stratford Hall Plantation, 485 Great House Road, Montross, VA 22520	Present at the time of the survey were 4 cows, 5 chickens, 2 horses, 9 sheep, and 1 llama. Manure is left on ground surface.	Conv	Public	Y		Westmoreland	WB
6	3	W9	1/23/2018	CONTRIBUTES ANIMAL POLLUTION, indirect	38.1446	-76.8332	House Road, Montross,	Pasture is leased out. Present at the time of the survey were 60+ cattle. Manure is left on ground surface. Pasture is partially within boundary.	Conv	Public	Y		Westmoreland	WB

SUMMARY

Growing Area # 003

Potomac River: Mattox Creek to Currioman Bay

3 February 2018

SECTION B: SEWAGE POLLUTION SOURCES

- 1. SEWAGE TREATMENT FACILITIES
 - 0 DIRECT None
 - 0 INDIRECT None
 - 0 B.1. TOTAL
- **2. ON-SITE SEWAGE DEFICIENCIES** Correction of the deficiencies in this section is the responsibility of the local health department.
 - 0 CONTRIBUTES POLLUTION, DIRECT None
 - 1 CONTRIBUTES POLLUTION, INDIRECT # W10
 - 0 CP (Kitchen or Laundry Wastes), DIRECT None
 - 0 CP (Kitchen or Laundry Wastes), INDIRECT None
 - 0 NO FACILITIES, DIRECT None
 - 0 NO FACILITIES, INDIRECT None
 - 1 B.2 TOTAL
- **3. POTENTIAL POLLUTION** Periodic surveillance of these properties will be maintained to determine any status change.
 - 0 POTENTIAL POLLUTION None

SECTION C: NON-SEWAGE WASTE SITES

- 1. INDUSTRIAL WASTE SITES
 - 0 DIRECT None
 - 0 INDIRECT None
 - 0 C.1. TOTAL
- 2. SOLID WASTE SITES
 - 0 DIRECT None
 - 0 INDIRECT None
 - 0 C.2. TOTAL

SECTION D: BOATING ACTIVITY

- 0 MARINAS None
- 1 OTHER PLACES WHERE BOATS ARE MOORED # W2
- 4 UNDER SURVEILLANCE # W1, W3, W4, W5
- 5 D. TOTAL

SECTION E: CONTRIBUTES ANIMAL POLLUTION

- 1 DIRECT # W6
- _3 INDIRECT # W7, W8, W9
- 4 E. TOTAL

SECTION F: STORMWATER OUTFALLS

- 1 DIRECT # W11
- 0 INDIRECT None
- 1 E. TOTAL

