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YORK RIVER: GLOUCESTER POINT TO ALLMONDSVILLE Growing Area # 047 Gloucester County Shoreline Sanitary Survey

Date: 1 October 2023

Survey Period: May 16, 2023 - September 8, 2023

Number of Samples Collected and Properties Surveyed: 101 Surveyed By: F. Monis, C. Turner, E Yeargan, & I. Geeson

SECTION A: GENERAL

This survey area extends from Reference Point 47 at Gloucester Point to Reference Point 48 at State Route 606, including the York River shoreline between these two points, Fox Creek, Sandy Creek, Jones Creek, Aberdeen Creek, Carter Creek, Cedarbush Creek, Poplar Creek, Timberneck Creek and all of their tributaries.

The topography of the area is generally moderate. Elevations in most of the survey area range from 10' to 50'. The areas of Sandy Creek and the Carmines Islands are low and marshy.

In March 2006, the Commonwealth of Virginia obtained 431 acres of land in Gloucester County located between Aberdeen and Carter Creeks for a new Middle Peninsula State Park. Machicomoco State Park opened in April 2021.

The survey area falls within Gloucester County. The population has increased by an estimated 7% since the 2010 census. The estimated 2022 population is around 39,000 residents. Data from 2022 indicate there are 17,331 housing units, with 171 building permits issued that year.

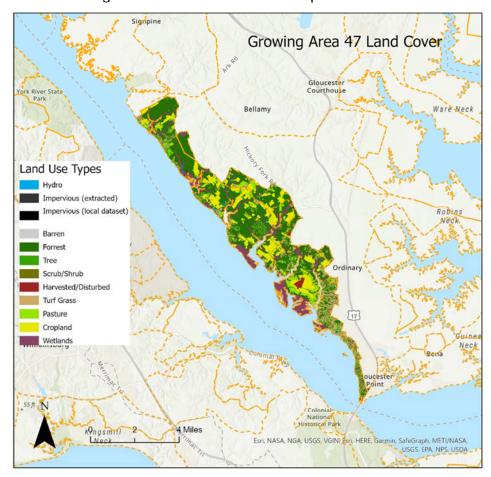
https://www.census.gov/quickfacts/fact/table/US/PST045221

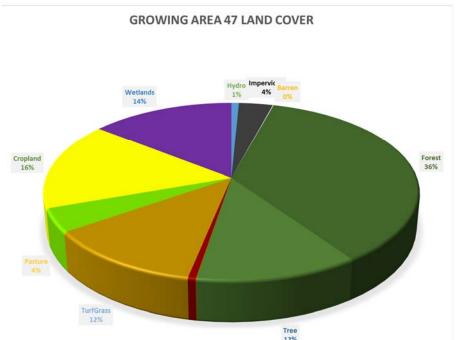
Meteorological data indicated that 16.58" of rain fell during the survey period. A monthly breakdown is as follows:

Date range	Cumulative Rainfall (inches)	Avg. Monthly rainfall (2012-2022)					
5/16/2023 - 5/31/2023	2.78	n/a partial month					
6/2023	6.99	5.59					
7/2023	3.19	5.93					
8/2023	3.62	5.00					
9/1/2023 - 9/8/2023	0	n/a partial month					



Within Growing Area 47 there are 2287 land parcels. Land Cover data are shown below.





Source: https://gismaps.vdem.virginia.gov/Download/Land Cover/County Report.pdf

For this survey, nearshore seawater stations were established to survey the full extent of navigable 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 point and nonpoint source pollution. Station data were analyzed to compare relative concentrations of fecal indicator bacteria within the waterway to identify potential onshore sources of contamination.

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

Growing Area # 47 Nearshore Sampling Rainfall in in-										
Sample dates	High Tide*	Ebb Current **	Sampling time	Enterococcus range (MPN/100ml)	Day of	Previous 24 hours	Previous 7 days			
5/16/23	8:07	9:52	9:07 – 12:05	9 - 288	0	0	0.58			
7/31/23	9:12	10:26	10:04 – 12:35	9 - 393	0.09	0.09	1.08			
8/2/23	11:03	12:32	10:19 – 12:33	9-109	0	0	0.36			
8/30/23	9:51	11:26	9:57 – 11:12	9 - 41	0	0.04	1.41			
Total rainfall for nearshore sampling period 16.39"										

Information in this report is gathered by and primarily for use by the Division of Shellfish Safety. Virginia Department of Health, in order to fulfill its responsibilities of shellfish growing area supervision and classification. However, the data are made available to various agencies participating in shellfish program coordinated activities or other interested parties.

Copies of VPDES permits and inspections are available at the Department of Environmental Quality. A directory and interactive map are available via the internet at https://www.deg.virginia.gov/permits-regulations/permits/water/surface-water-virginiapollutant-discharge-elimination-system and https://geohub-vadeg.hub.arcgis.com/pages/Water%20Datasets

Copies of Bacteriological, Hydrographic and Shellfish Closure data are available at the area office for review. Copies of the current condemnation notices and maps are available via the Internet at

https://www.vdh.virginia.gov/environmental-health/environmental-health-services/shellfishsafety/

This report lists only those properties which have a sanitary deficiency or have other environmental significance. "DIRECT" indicates that the significant activity or deficiency has a direct impact on shellfish waters.

^{*}High Tide estimated from Cheatham Annex NOAA ID# 2207.
**Slack Ebb Current estimated from Allmondsville NOAA ID# 5386.

SECTION B: SEWAGE POLLUTION SOURCES

	GA #	Field #	Deficiency or Pollution Type	Latitude	Longitude	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	DSS Staff	Date of Correction	Correction Notes
500	47	CYR	POTENTIAL POLLUTION	37.336962	-76.585052	Previous survey states odor present and problems experienced in wet weather. Site visit 8/23/23. No odor present, no effluent observed.		Dwelling	N		Gloucester	СТ		
526	47	CY23	POTENTIAL POLLUTION	37.254171	-76.503088	Occupant states problems with bathtubs and toilets in wet weather. Site visit 9/6/23. No odor or effluent found on site.		Dwelling	N		Gloucester	СТ		
508	47	F3	POTENTIAL POLLUTION	37.321963	-76.551772	Occupant states that during heavy precipitation, the adjacent field floods from overflow of VDOT ditches. Problems are experienced when flushing the toilets. No contact made.		Dwelling	N		Gloucester	FM		
511	47	F4	POTENTIAL POLLUTION	37.320841	-76.551048	Occupant states the house has two bathrooms, one of the toilets back up when the other is flushed. No contact made.		Dwelling	N		Gloucester	FM		

Shoreline Survey # 047

SECTION C: NONSEWAGE WASTE SITES

GA #	Field #	Deficiency or Pollution Type	Latitude	Longitude	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	DSS Staff

SECTION D: BOATING ACTIVITY

	GA #	Field #	Deficiency or Pollution Type	Latitude	Longitude	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Boating Activity Type	Number of Wet Slips	NUM BOATS <26'	NUM BOATS >26'	Evidence of Live-Aboards	Locality	DSS Staff
516	47	997	BOATING ACTIVITY	37.297154	-76.533818	Portable toilets available.				Day use only for park visitors. No power or water.	Marina	0	0	0	N	Gloucester	IG
5183	3 47	F5	BOATING ACTIVITY	37.247564	-76.504019	Facility for marine institute vessels only. >24 dry storage spaces. Bay Eagle, Tidewater, and Tyndall Pointe vessels have type 1 or 2 USCG approved sewage treatment systems.		Marine	Υ		Marina	20	2	2	N	Gloucester	FM
499	47	CY9	BOATING ACTIVITY	37.342421	-76.591362	Site visit 8/23/23. Pier closed and in disarray. Gloucester County to rebuild pier. Expected project dates August 2023-November 2023. No improvements seen during site visit.		Marine	N		Under Surveillance	0	0	0	N	Gloucester	СТ
498	47	CY10	BOATING ACTIVITY	37.342873	-76.591293	Site visit 8/23/23. serves as offloading site for crabs. Abandoned building being torn down. 4 work boats present.		Marine	N		Under Surveillance	0	4	0	N	Gloucester	СТ
524	47	CY24	BOATING ACTIVITY	37.299637	-76.531089	Site visit 9/6/23. Offloading site, 10 slips available. 6 work boats present. No dumpster on site.		Marine	N		Under Surveillance	10	6	0	N	Gloucester	СТ
5181	47	F1	BOATING ACTIVITY	37.386119	-76.642665	Oyster offloading site for commercial vessels. 6 commercial vessels and 2 recreational vessels present.		Marine			Under Surveillance	0	2	6	N	Gloucester	FM
509	47	F6	BOATING	37.311152	-76.556651	Loading/unloading dock and ramp.		Marine			Under Surveillance	0	0	0		Gloucester	FM
490	47	F10	ACTIVITY BOATING ACTIVITY	37.380325	-76.635688	Public boat ramp only		Marine			Under Surveillance	0	0	0	N	Gloucester	FM

SECTION E: ANIMALS PRESENT

	GA #	Field #	Deficiency or Pollution Type	Latitude	Longitude	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	DSS Staff
491	47	CY1	ANIMALS PRESENT, indirect	37.359695	-76.607977	Site visit 8/30/23. Present onsite were 11 sheep, various ducks, chickens, and guineas, several pigs, and one horse. Manure is spread on the ground.		Dwelling	Υ		Gloucester	СТ
496	47	CY6	ANIMALS PRESENT, indirect	37.353445	-76.576776	Site visit 8/30/23. Found on site were 7 horses, various goats, and 16 German Shepherds. Manure is composted and spread on fields.		Dwelling	Υ		Gloucester	СТ
506	47	CY12	ANIMALS PRESENT, indirect	37.343288	-76.563453	Site visit 8/23/23. Horses and cattle observed, manuRe disposal is unknown.		Dwelling	N		Gloucester	СТ
507	47	CY13	ANIMALS PRESENT, indirect	37.347495	-76.557477	Site visit 8/23/23. No horses observed, but pasture and stable present on grounds.		Dwelling	N		Gloucester	СТ
512	47	CY21	ANIMALS PRESENT, indirect	37.319600	-76.548219	Site visit 9/6/23. Observed on site were various numbers of ducks and chickens and 2 horses.		Dwelling	N		Gloucester	СТ
513	47	CY22	ANIMALS PRESENT, indirect	37.320080	1 - /6 54 /560	Site visit 9/6/23. 2-4 horses observed in stable, no other animals seen.		Dwelling	N		Gloucester	СТ
518	47	CY25	ANIMALS PRESENT, indirect	37.303440	1 - 76 577171	Site visit 9/6/23. Small coop with ~20 chickens present.		Dwelling	N		Gloucester	СТ
488	47	F2	ANIMALS PRESENT, indirect	37.386724		Site visit 7/19/23. Observed 6-8 cows in plain view and 10 or more guinea fowl on property.		Dwelling	N		Gloucester	FM
489	47	F8	ANIMALS PRESENT, indirect	37.391700	I - /h h3h1X/	Site visit 7/20/23. Observed 4 chickens and 7 guinea fowl on property		Dwelling	Y		Gloucester	FM
517	47	F9	ANIMALS PRESENT, indirect	37.321555	-76.531476	Site visit 8/25/23. Observed 3 horses in plain view.		Dwelling	N		Gloucester	FM

SUMMARY

Growing Area # 047

York River: Gloucester Point to Allmondsville

1 October 2023

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 deficiencies in this section is the responsibility of the local health department.
 - 0 CONTRIBUTES POLLUTION, DIRECT None.
 - 0 CONTRIBUTES POLLUTION, INDIRECT None.
 - 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.
 - 0- B.2. TOTAL
- **3. POTENTIAL POLLUTION** Periodic surveillance of these properties will be maintained to determine any status change.
 - 4 POTENTIAL POLLUTION # CY8, CY23, F3, F4

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
- 3. STORMWATER OUTFALLS
 - 0 DIRECT None.
 - 0 INDIRECT None.
 - 0 E. TOTAL

SECTION D: BOATING ACTIVITY

- 2 MARINA # 997, F5
- 6 UNDER SURVEILLANCE # CY9, CY10, CY24, F1, F6, F10
- 8 D. TOTAL

SECTION E: ANIMALS PRESENT

- 0 DIRECT None.
- 10 INDIRECT # CY1, CY6, CY12, CY13, CY21, CY22, CY25, F2, F8, F9
- 10 E. TOTAL

