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WARWICK RIVER AND DEEP CREEK Growing Area # 058 Shoreline Sanitary Survey City of Newport News

Date: 20 June 2024

Survey Period: March 11 – June 7, 2024

Total Number of Properties Visited and Near-shore Samples Collected: 28

Surveyed By: I. Geeson

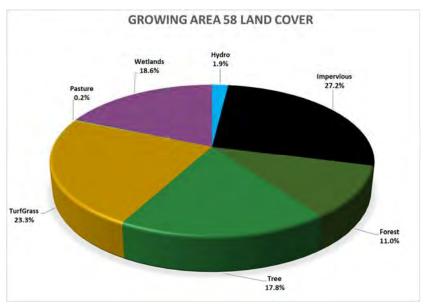
SECTION A: GENERAL

This survey area extends from Reference Point 58 at Blunt Point to Reference Point 59 at Mulberry Point, including the James River shoreline between these two points, Warwick River, Fisher's Creek, Deep Creek (Yoder Pond), Thorofare, Lucas Creek, Stony Run Creek, Butler's Gut, Jail Creek, Swash Hole, Morrisons Creek, Fort Creek and all of their tributaries. Topography of the area is characterized by elevations ranging from 5' in the area west of the Warwick River (Mulberry Island) to about 35' east of the Warwick River.

The 2020 census reported that there are an estimated 59,943 residents across 24647 housing units in Growing Area 58.

https://www.census.gov/geographies/reference-maps/2020/geo/2020-census-block-maps.html

Within Growing Area 58 there are 18029 land parcels. Land Cover data are shown below.







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

Meteorological data indicated that 4.02" of rain fell during the survey period. A monthly breakdown is as follows:

Date Range	Cumulative Rainfall	Average Monthly rainfall 2013-2023
March 11-31, 2024	4.8"	N/A (partial month)
April 2024	1.27"	4.26"
May 2024	4.35"	4.09"
June 1-7, 2024	0.19"	N/A (partial month)

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 establish nearshore seawater stations. Properties identified in the previous survey as having sanitary deficiencies or other environmental significance were revisited to evaluate their current status. Navigable shoreline within the primary survey boundary was visually inspected to identify potential pollution sources requiring further investigation.

Nearshore seawater stations were established to survey the 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. During this survey, nearshore samples were analyzed for the FIB enterococcus as well as the human-associated molecular marker gene HF183, which may indicate the presence of recent human-source fecal pollution.

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 # 58 Nearshore Sampling Rainfall in inch										
Sample dates	High Ebb Sampling Tide* Current** times		Enterococcus range (MPN/100ml)	Day of	Previous 24 hours	Previous 7 days				
5/6/24	09:20	11:55	10:41-12:00	<10 - 364	0.15"	0.21"	0.21"			
Total rainfall for nearshore sampling period 0.15"										

^{*} High tide estimated from Menchville (NOAA ID 8638407).

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.deq.virginia.gov/permits-regulations/permits/water/surface-water-virginiapollutant-discharge-elimination-system.

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.

Copies of the current condemnation notices and maps are available via the Internet at https://www.vdh.virginia.gov/environmental-health/environmental-health-services/shellfish-safety/.

^{**} Slack ebb current estimated from North End (NOAA ID ACT5321).

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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
5232	58	G2	SEWAGE TREATMENT FACILITY. direct	37.072642	-76.539624	Outfall for VA0081272	NA				Newport News	IG		
0	58	G1	SEWAGE TREATMENT FACILITY, indirect	37.083576	- /6.5340521	Design Flow 20 MGD, Avg 13MGD, Max 43MGD.	NA			DEQ permit # VA0081272.	Newport News	IG		
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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
5235	58	G4	SOLID WASTE DUMPSITE, indirect	37.142543	-76.586736	Landfill #7 Fort Eustis Superfund Site, mitigation ongoing.				Superfund SIte Fort Eustis	Newport News	IG
2672	58	327 I	STORMWATER, direct	37.150695	-76.587135	Facility discharges storm water from 38 individual outfalls into Skiffes Creek and James River. DEQ Permit VA0025216	NA	NA		Fort Eustis	Newport News	IG

SECTION D: BOATING ACTIVITY

	GA #	Field #	Deficiency or Pollution Type	Latitude	Longitude	Pollutant Remarks	Septic System Type	stem Structure Co		Overall Site Remarks	Boating Activity Type	Number of Wet Slips	Evidence of Live- Aboards	Locality	DSS Staff
2661	58		BOATING ACTIVITY, indirect	37.079763	-76.522709	EHD inspection 2023, alternate pump out agreement.	NA	Marine	N	James River Dry Storage Marina (James River Marine	Marina	25	N	Newport News	IG
2663	58		BOATING ACTIVITY, indirect	37.086227	-76.521405	EHD inspection 5/23 satisfacatory, has working pumpout.	NA	Marine	N	Warwick Yacht and Country Club	Marina	75	N	Newport News	IG
2664	58		BOATING ACTIVITY, indirect	37.085414	-76.523744	EHD inspection 3/2023 satisfactory, has working pumpout.	NA	Marine	N	Deep Creek Landing Marina	Marina	80	Υ	Newport News	IG
2666	58		BOATING ACTIVITY, indirect	37.082743	-76.524531	Workboat marina. 4/23 EHD Inspection	Privy	Marine	N	Menchville Marine Supply Corporation	Marina	15	N	Newport News	IG
2669	58		BOATING ACTIVITY, indirect	37.082592	-76.524925	Landing site for work boats	Privy	Marine	N	Newport News Municipal Bulk Head	Marina	12	N	Newport News	IG
5234	58		BOATING ACTIVITY, indirect	37.083272	-76.524561	Facility not in operation.	NA	Marine	N	Christopher Newport Sailing Center. Facility Closed per EHD Inspection 2022	Marina	37	N	Newport News	IG
2671	58		BOATING ACTIVITY, indirect	37.123579	-76.568461	Boat ramp with large parking area	Privy	Privy Marine		Denbigh Park.	Under Surveillance	0	N	Newport News	IG

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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

SUMMARY

Growing Area # 058
Warwick River and Deep Creek
20 June 2024

SECTION B: SEWAGE POLLUTION SOURCES

- 1. SEWAGE TREATMENT FACILITIES
 - 1 DIRECT # G2
 - 1 INDIRECT # G1
 - 2 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.
 - 0 POTENTIAL POLLUTION None

SECTION C: NON-SEWAGE WASTE SITES

- 1. INDUSTRIAL WASTE SITES
 - 0 DIRECT # 13
 - 0 INDIRECT None.
 - 0 C.1. TOTAL
- 2. SOLID WASTE DUMPSITES
 - 0 DIRECT None.
 - <u>1</u> INDIRECT # G4
 - 1 C.2. TOTAL
- 3. STORMWATER
 - 1 DIRECT # 327
 - 0 INDIRECT None.
 - 1 TOTAL

SECTION D: BOATING ACTIVITY

- 6 MARINAS, INDIRECT # 8, 132, 167, 175, 179, G3
- 1 UNDER SURVEILLANCE, INDIRECT # 252
- 7 D. TOTAL

SECTION E: CONTRIBUTES ANIMAL POLLUTION

- 0 DIRECT None.
- <u>0</u> INDIRECT None.
- 0 E. TOTAL

