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# JAMES RIVER: MULBERRY POINT TO JAMESTOWN ISLAND James City County and City of Newport News Growing Area # 059 Shoreline Sanitary Survey

Date: 29 June 2023 Survey Period: March 15 – June 21, 2023 Total Number of Properties and samples taken: 47 Surveyed by: I. Geeson & E. Yeargan

# SECTION A: GENERAL

This growing area extends from the eastern side of the Route 199, College Creek Bridge in Williamsburg to Mulberry Point on the Fort Eustis Military installation, including the James River and out to mid channel, all the shoreline between these two points, and all its tributaries.

The waters upstream of West Landing Road (coordinates 37°13'23.6", -76°41'12.5") are in the Prohibited status. Access to Skiffes Creek is strictly controlled by port security at the Fort Eustis Military Base. No recreational or commercial boating activity or harvest is authorized within this area.

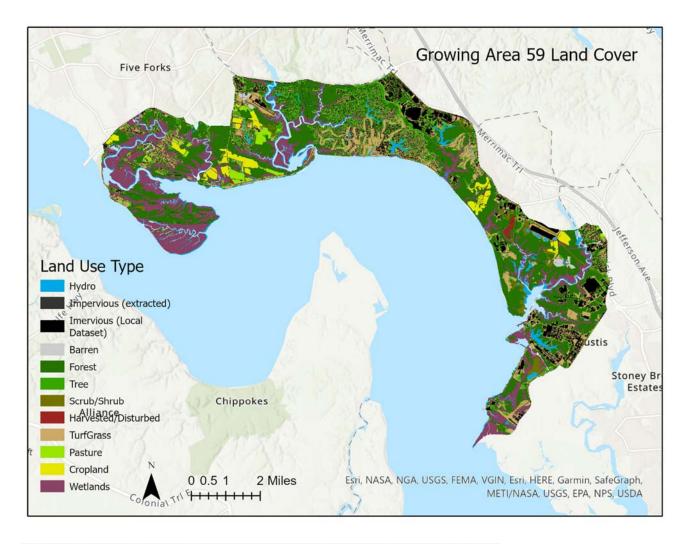
The area is served by sanitary sewer (Hampton Roads Sanitation District) which is conveyed to and treated at the Williamsburg Sewage Treatment facility (discharges into James River).

The topography of the area is low near the southern boundary. Elevations here range from 0-10' in the Mulberry Island portion to a maximum of 20-30' just northeast of Eustis Lake. Towards the northern portions of the survey area in James City County and the City of Williamsburg elevation rise sharply from the shoreline to a maximum of 50-70'.

The northern portion of the survey area falls within James City County. The population in James City County has grown an estimated 17.5% since the 2010 census. The estimated population is around 81,000 people. Data from 2021 indicate there are 34,723 housing units. In 2022, 283 building permits were issued. https://www.census.gov/guickfacts/fact/table/US/PST045221

Approximately 5700 people reside in Fort Eustis. https://www.unitedstateszipcodes.org/23604/#stats





**Growing Area 59 Land Cover** Hydro Impervious 4% 13% 19% Barren 1% 1% 3% Forest Tree 15% 30% Scrub/Shrub 2% 12% Harvested/Disturbed 0% TurfGrass Pasture Cropland Wetlands

Within Growing Area 59, there are 5093 land parcels. Land Cover data are shown below.

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Source: https://gismaps.vdem.virginia.gov/Download/Land\_Cover/County\_Report.pdf

Meteorological data indicated that 10.65" of rain fell during the survey period. Monthly breakdown is as follows:

Date Range	Cumulative Rainfall (inches)	Average Monthly rainfall 2012-2022
03/15/23-03/31/23	1.35"	
04/23	5.71	3.95
05/23	2.71	4.19
06/01/23-06/15/23	0.88	

At the time of this writing, the James River Reserve Fleet (JRRF) has 10 vessels in its inventory. While several of these vessels are scheduled for disposal in the distant future, the JRRF will continue to be a presence in this survey area. The vessels are monitored for water infiltration and general maintenance issues via both visual and physical inspections. These vessels are not discharging.

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 # 59 Nearshore, Onshore Sampling Rainfall in												
Sample dates	High Tide*	Ebb Current **	Sampling time	Enterococcus range Day (MPN/100ml)		Previous 24 hours	Previous 7 days					
4/4/23	11:03	12:56	11:43 -14:30	9-41	0	0	1.04					
5/4/23	12:03	13:41	13:01 – 14:39	9-379	0	0.04	3.18					
	Total rainfall for nearshore sampling period 4/4/23-5/4/23: 5.55"											

\* High Tide estimated from Mulberry Point, Fort Eustis Station NOAA Station ID 2251

\*\* Slack ebb current estimated from Point of Shoals NOAA Station ID 5246

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 <a href="https://www.deq.virginia.gov/permits-regulations/permits/water/surface-water-virginia-pollutant-discharge-elimination-system">https://www.deq.virginia.gov/permits-regulations/permits/water/surface-water-virginia-pollutant-discharge-elimination-system</a> and <a href="https://geohub-vadeq.hub.arcgis.com/pages/Water%20Datasets">https://geohub-vadeq.hub.arcgis.com/pages/Water%20Datasets</a>

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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 <a href="https://www.vdh.virginia.gov/environmental-health/environmental-health-services/shellfish-safety/">https://www.vdh.virginia.gov/environmental-health/environmental-health-services/shellfish-safety/</a>

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.

### SECTION B: SEWAGE POLLUTION SOURCES

	GA #	Field #	Inspection Date	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
2145	59	3	3/24/2023	SEWAGE TREATMENT FACILITY, indirect	37.215254	-76634815	Design flow 22.5 MGD Avg 8.7 MGD Max 24.7 MGD secondary treament with chlorine dissenfectant				HRSD Williamsburg Sewage Treatment Plant. VPDES permit VA0081302.	James City	IG		
5109	59	3A	3/24/2023	SEWAGE TREATMENT FACILITY, direct	37.212628	-76.650011	Outfall for VA0081302					James City	IG		

### SECTION C: NONSEWAGE WASTE SITES

	GA #	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Pollutant Remarks	Septic System Type		Contact	Overall Site Remarks	Locality	DSS Staff
214	6 59	5	6/23/2023	INDUSTRIAL WASTES, direct	37.192861	-76 618250	Stormwater pipes active, monitored by DEQ. Other discharges capped/ turned off.				BASF Plant closed with no known plans to reopen. VPDES permit VA0003654.	James City	IG
511	0 59	17A	6/23/2023	STORMWATER, direct	37.168386	-76.604352	38 outfalls to Skiffes Creek and James River.				VA0025216	Newport News	IG

	GA #	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	Boating Activity Type	Number of Wet Slips	Evidence of Live- Aboards	DSS Staff
21	14 59	2	6/23/2023	BOATING ACTIVITY	37.222881	-76.662927	VDH inspection June 2021.		Marine		Kingsmill Marina.	James City	Marina	95	Ν	IG
21	18 59	17	6/23/2023	BOATING ACTIVITY	37.167485	-76.605571			Marine		Fort Eustis, Skiffes Creek. Military waterfront for medium sized vessels.	Newport News	Marina	20		IG
21	50 59	19	6/23/2023	BOATING ACTIVITY	37.138464	-76.622349			Marine		James River Reserve Fleet Operations. Facility actively monitors and maintains reserve fleet.	Newport News	Marina	0		IG

### SECTION E: CONTRIBUTES ANIMAL POLLUTION

	GA #	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	DSS Staff
2149	59	18	6/23/2023	CONTRIBUTES ANIMAL POLLUTION, indirect	37.150353	-76.609805	6 horses observed.		Agri		Fort Eustis Stables.	Newport News	IG

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### SUMMARY

Growing Area # 059 James River: Mulberry Point to Jamestown Island 29 June 2023

# SECTION B: SEWAGE POLLUTION SOURCES

# 1. SEWAGE TREATMENT FACILITIES

- 1 DIRECT # 3A
- <u>1</u> INDIRECT # 3
- 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**

- 1 DIRECT # 5
- <u>0</u> INDIRECT None.
- 1 C.1. TOTAL

# 2. SOLID WASTE DUMPSITES

- 0 DIRECT None.
- <u>0</u> INDIRECT None.
- 0 C.2. TOTAL

# 3. STORMWATER

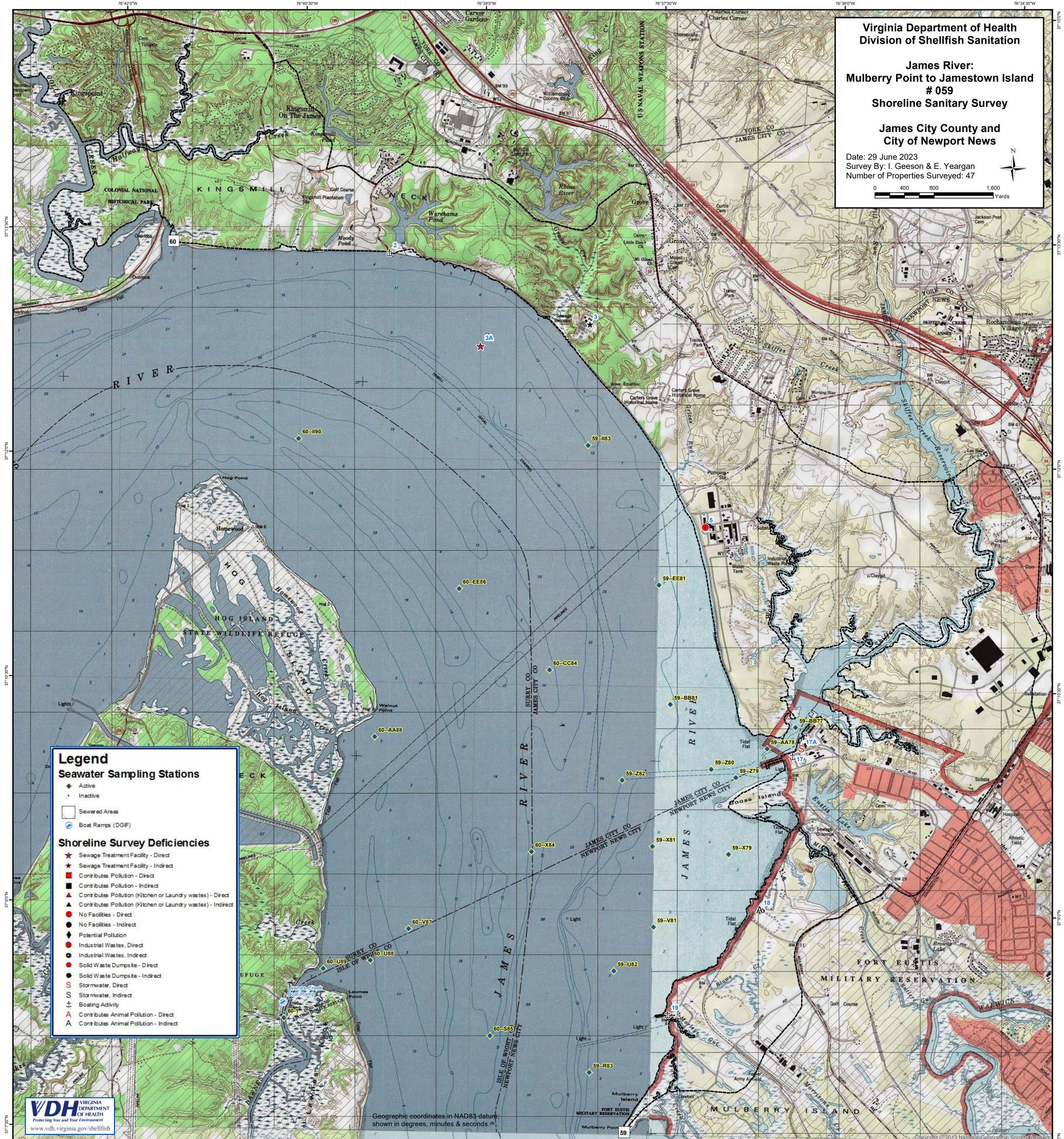
- 1 DIRECT # 17A
- 0 INDIRECT None.
- 1 TOTAL

# SECTION D: BOATING ACTIVITY

- 3 MARINAS # 2, 17, 19
- 0 UNDER SURVEILLANCE None.
- 3 D. TOTAL

# SECTION E: CONTRIBUTES ANIMAL POLLUTION

- 0 DIRECT None.
- <u>1</u> INDIRECT # 18
- 1 E. TOTAL



76°42'0"W

76°37'30"W



76°36'0"W

