



COMMONWEALTH of VIRGINIA

Department of Health
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FARNHAM CREEK Growing Area # 024 Richmond County Shoreline Sanitary Survey

Date: 27 September 2023

Survey Period: June 5, 2023 – September 27, 2023

Number of Samples Collected and Properties Surveyed: 74

Surveyed By: M. Farnham, J. Friedman, J. Hudnall, & I. Geeson

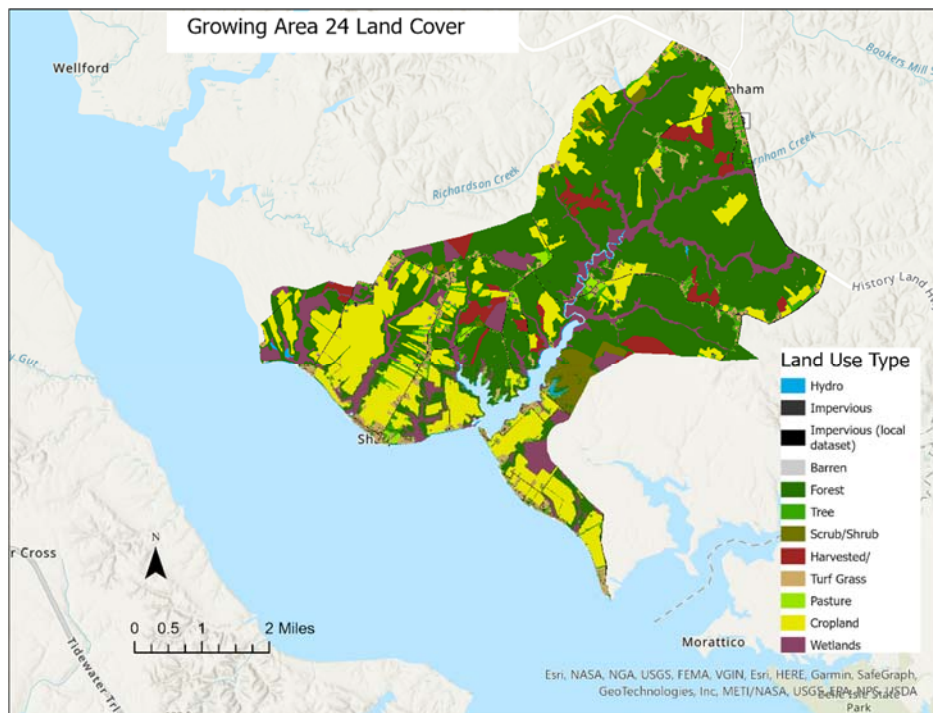
SECTION A: GENERAL

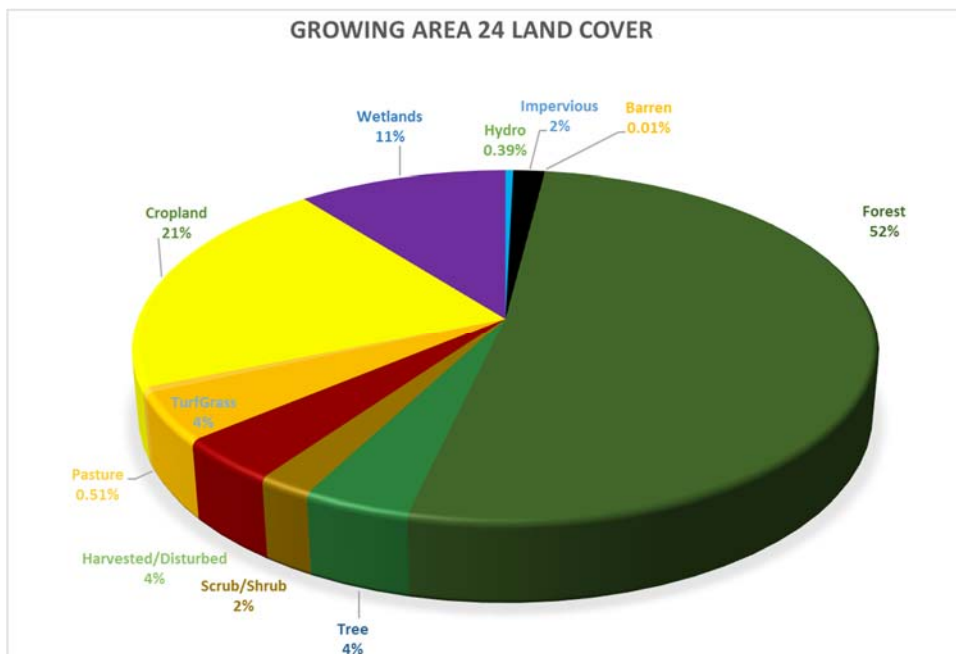
This survey area extends from Reference Point 24 at Tarpley Point to Reference 25 at Suggetts Point, including the Rappahannock River shoreline between these two points, Farnham Creek (Lanton Swamp and Conley Swamp), and all their tributaries.

The survey area falls within Richmond County. The population has remained stable since the 2010 census at just over 9000 residents. Data from 2022 indicate there are 3972 housing units. In 2022, 26 building permits were issued in the county.

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

Within Growing Area 24, there are 764 land parcels. Land Cover data are shown below.





Source:

https://gismaps.vdem.virginia.gov/Download/Land_Cover/Land_Cover_Use_Case_Scenarios.pdf

Meteorological data indicated that 16.83" of rain fell during the survey period. Monthly breakdown is as follows:

Date Range	Cumulative Rainfall (inches)	Average Monthly rainfall 2012-2022
6/5/2023 - 06/30/23	4.41	N/A partial month
07/2023	6.47	5.74
08/2023	2.19	4.43
09/2023 - 9/27/2023	3.76	N/A partial month

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 # 24 Nearshore Sampling Rainfall in inches							
Sample dates	High Tide*	Ebb Current **	Sampling time	Enterococcus range (MPN/100ml)	Day of	Previous 24 hours	Previous 7 days
6/29/23	09:19	11:44	9:00-10:48	<10-31	0	0.01	2.27
7/25/23	05:50	08:40	9:34-11:00	<10-63	0	0.25	0.54
9/21/23	04:48	07:25	9:08-9:11	85-109	0	0	0.55
Total rainfall for nearshore sampling period 10.67"							

* High tide estimated from Bayport NOAA Station ID 2171.

**Slack ebb current estimated from Sharps, 1.2 mi south of, NOAA Station ID 5501.

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/water/surface-waters-vpdes> and <https://geohub-vadeq.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/shellfish-safety/>

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.

Shoreline Survey # 024

SECTION B: SEWAGE POLLUTION SOURCES

[illegible]

SECTION C: NONSEWAGE WASTE SITES

[illegible]

SECTION D: BOATING ACTIVITY

[illegible]

Shoreline Survey # 024

SECTION E: ANIMALS PRESENT

[illegible]

SUMMARY

Growing Area # 024
Farnham Creek
27 September 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.

1 – POTENTIAL POLLUTION – # G1

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 – C.3. TOTAL

SECTION D: BOATING ACTIVITY

0 – MARINAS – None
4 – UNDER SURVEILLANCE – # G3, G4, G5, G6
4 – D. TOTAL

SECTION E: ANIMALS PRESENT

0 – DIRECT – None
1 – INDIRECT – # G2
1 – E. TOTAL

Virginia Department of Health
Division of Shellfish Sanitation

Farnham Creek
024
Shoreline Sanitary Survey

Richmond County

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0 750 1500
Yards



Legend

Seawater Sampling Stations

- Active
- Inactive
- Sewered Areas
- Boat Ramps (DGIF)

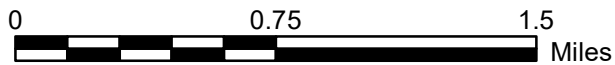
Shoreline Survey Deficiencies

- Sewage Treatment Facility - Direct
- Sewage Treatment Facility - Indirect
- Contributes Pollution - Direct
- Contributes Pollution - Indirect
- Contributes Pollution (Kitchen or Laundry wastes) - Direct
- Contributes Pollution (Kitchen or Laundry wastes) - Indirect
- No Facilities - Direct
- No Facilities - Indirect
- Potential Pollution
- Industrial Wastes, Direct
- Industrial Wastes, Indirect
- Solid Waste Dumpsite - Direct
- Solid Waste Dumpsite - Indirect
- Stormwater, Direct
- Stormwater, Indirect
- Boating Activity
- Contributes Animal Pollution - Direct
- Contributes Animal Pollution - Indirect

Geographic coordinates in NAD83 datum;
shown in degrees, minutes & seconds.

Near Shore Enterococcus Sampling Growing Area # 024 - Farnham Creek Richmond County

* Highest value was 109 collected on 9/21/23.



Legend

Enterococcus spp. (MPN/100ml)

Sampling Dates: 6/29/23 - 9/21/23

- < 10
- 10 - 100
- 101 - 1000
- 1001 - 10000
- > 10000

Northern Neck

