

P O BOX 2448 RICHMOND, VA 23218

TTY 7-1-1 OR 1-800-828-1120

# COCKRELL CREEK Growing Area # 012 Northumberland County Shoreline Sanitary Survey

**Date: 27 March 2024** 

**Survey Period:** 9/5/23 to 12/13/23

Total Number of Properties Surveyed and Near-shore Samples Collected: 238

Surveyed By: J. Freidman

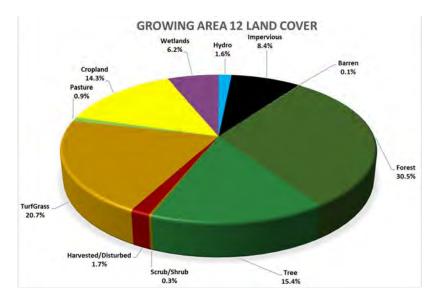
**SECTION A: GENERAL** 

This survey includes the area from Haynie Point to Fleet Point including Whays Creek Reason Creek, Cockrell Creek and their tributaries. Precise survey boundaries are included on a map at the end of this report.

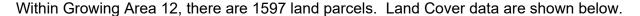
The topography of the area varies in elevation from 5' around the shoreline of Cockrell Creek to a maximum of 20' along the northwest boundary of the headwaters.

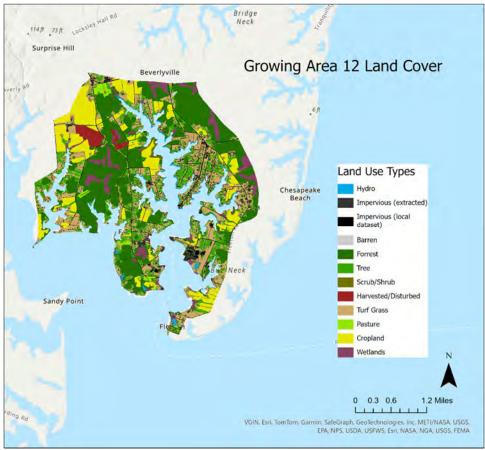
The survey area falls within Northumberland County. Since the 2010 census the Northumberland County population remains stable with about 12,300 residents in 9041 housing units. 63 building permits were issued in 2022. https://www.census.gov/guickfacts/fact/table/US/PST045221

Within Growing Area 12, there are 1597 land parcels. Land Cover data are shown below.









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

Meteorological data indicated that 6.08" of rain fell during the survey period. Monthly breakdown is as follows:

Date Range	Cumulative Rainfall	Average Monthly rainfall 2012-2022
9/25-30/2023	0.0"	
10/2023	1.5"	4.82
11/2023	1.84"	2.71
12/1-13/2023	2.74"	

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 A	Growing Area # 12 Nearshore Sampling Rainfall in inches												
Sample dates	High Tide *	Ebb Current **	Sampling times	Enterococcus range (MPN/100ml)	Day of	Previous 24 hours	Previous 7 days						
9/25/23	8:53	11:23	9:13 – 12:16	<10 - 2613	0	0.24	2.48						
9/26/23	10:01	12:34	9:13 – 10:49	<10 - 98	0	0	2.02						
9/29/23	12:43	15:26	8:54 – 11:50	<10 - 292	0	0	2.02						
10/25/23	9:50	12:42	9:03 – 12:13	<10 - 19863	0	0	0.28						
10/26/23	11:05	13:43	9:41 – 10:49	<10 - 52	0	0	0.28						
Total rainfal	Total rainfall for nearshore sampling period (9/25/23 – 10/26/2023) 1.34"												

<sup>\*</sup> High Tide estimated from Great Wicomico River Light NOAA ID# 2155.

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 <a href="https://geohub-vadeq.hub.arcgis.com/pages/Water%20Datasets">https://geohub-vadeq.hub.arcgis.com/pages/Water%20Datasets</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.

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>.

<sup>\*\*</sup> Slack Ebb Current estimated from 3.8 nautical miles ESE of Great Wicomico River Light NOAA ID# 4671.

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## **SECTION B: SEWAGE POLLUTION SOURCES**

	GA #	Field #	Deficiency or Pollution Type	Latitude	Longitude	Pollutant Remarks	Contact	Overall Site Remarks	Locality	DSS Staff	Date of Correction	Correction Notes
3092	12	2.7	SEWAGE TREATMENT FACILITY, direct		-76.275670	Outfall for VPDES permit # VA0060712.			Northumberland	JF		
2178	12	30	SEWAGE TREATMENT FACILITY, indirect	37.832697	I-/h /hYhXh	Design flow 0.2 MGD, Avg 0.1 MGD, Max 0.165 MGD.		Reedville WWTP, VPDES permit # VA0060712.	Northumberland	JF		

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## **SECTION C: NONSEWAGE WASTE SITES**

	GA #	Field #	Deficiency or Pollution Type	Latitude	Longitude	Pollutant Remarks	Contact	Overall Site Remarks	Locality	DSS Staff
2186	12	16A	INDUSTRIAL WASTES, direct	37.849326	I-/6 //43X/	Most recent DEQ inspection was from 2023 - permit for menhaden wash down water, facility in good shape			Northumberland	JF
2184	12	51	INDUSTRIAL WASTES, direct	37.838571	I_/6 //433X	Reedville Menhaden Inc - Most recent DEQ inspection from 2019. Permit is for menhaden washdown water.			Northumberland	JF
2176	12	25	INDUSTRIAL WASTES, indirect	37.831339	I-76.271808	Omega Protein Inc airstrip for spotter planes - property in use and well maintained			Northumberland	JF

## **SECTION D: BOATING ACTIVITY**

	GA #	Field #	Deficiency or Pollution Type	Latitude	Longitude	Pollutant Remarks	Contact	Overall Site Remarks	Locality	Boating Activity Type	Number of Wet Slips	NUM BOATS <26'	NUM BOATS >26'	Evidence of Live- Aboards	DSS Staff
2181	12	41	BOATING ACTIVITY	37.838962	-76.265900	18 slips available for Waterman's Cove community		Waterman's Cove Community Pier.	Northumberland	Marina	18	0	0	N	JF
2183	12	50	BOATING ACTIVITY	37.838359	-76.279681	According to EHD Feb 2022 inspection, 24 wet slips available		Reedville Marina.	Northumberland	Marina	24	0	0	N	JF
2195	12	180	BOATING ACTIVITY	37.842301		Buzzard Point Dry Storage and Marina - Most recent EHD inspection from Jan 2022 states 57 wet slips and 130 dry slips available		Buzzard Point Dry Storage and Marina.	Northumberland	Marina	57	0	0	N	JF
2203	12	75()	BOATING ACTIVITY	37.832676	-76.286209	Fairport Marina - Most recent EHD inspection from February 2022 states 56 wet slips		Fairport Marina.	Northumberland	Marina	56	0	0	N	JF
2206	12	266	BOATING ACTIVITY	37.831863	-76.286642	Jennings Boat Yard - Most recent EHD inspection from Jan 2022 states 43 wet slips and 170 dry slips		Jennings Boat Yard.	Northumberland	Marina	43	0	0	N	JF
3093	12	1.6	BOATING ACTIVITY	37.848913	-76.279327	Maximum of 3 temporary slips at menhaden processing facility, property shows some signs of neglect		Unnammed fish processing facility.	Northumberland	Under Surveillance	3	0	0	N	JF
2173	12	3.7	ACTIVITY	37.817839	-76.279386	4 temporary slips available at seafood facility.		Unnamed boat basin on Fleeton Wharf Road.	Northumberland	Under Surveillance	4	0	0	N	JF
2177	12	/	ACTIVITY	37.828774	-76.277249	Omega Protein Inc facility with 10 moorings for menhaden ships.		Omega Protein Inc.	Northumberland	Under Surveillance	10	0	0	N	JF
2174	12	13.4	BOATING ACTIVITY	37.824347		DWR public boat ramp, no permanent slips.		DWR Boat Ramp.	Northumberland	Under Surveillance	0	0	0	N	JF
2179	12	33	BOATING ACTIVITY	37.837416	-76.274326	5 temporary slips available for small boats to either sell seafood or patrons to visit the resturant. One large vessel (seen in imagery, F/V Ray Rogers) often ties up here		Smith Point Seafood.	Northumberland	Under Surveillance	5	0	0	N	JF
2182	12	48	BOATING ACTIVITY	37.840790	-76.276671	3 temporary slips available.		Reedville Marine Railway.	Northumberland	Under Surveillance	3	0	0	N	JF
2185	12	53	BOATING ACTIVITY	37.843578	-76.275812	Dock for Reedville Fisherman's Museum - 3 moorings available, but all used for Museum boats.		Reedville Fisherman's Museum.	Northumberland	Under Surveillance	3	0	0	N	JF
2513	12	1/8	BOATING ACTIVITY	37.841733	-76.310912			Boat ramp, End of Shell Landing Road.	Northumberland	Under Surveillance	0	0	0	N	JF
2208	12	7/4	BOATING ACTIVITY	37.830369	-76.283202	One large pier for F/V Mosquito Point (part of Omega Protein Inc fleet) ties up here.		Additional dockage for Omega Protein.	Northumberland	Under Surveillance	0	0	0	N	JF
5186	12	122	BOATING ACTIVITY	37.839017	-76.278130	House boat present at "The Gables" Bed and Breakfast.		Within the restricted closure, no contact.	Northumberland	Under Surveillance	0	0	0	Υ	JF
		1224	ACTIVITY BOATING		-76.283202 -76.278130	Point (part of Omega Protein Inc fleet) ties up here. House boat present at "The		Omega Protein.  Within the restricted		Surveillance Under					

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## **SECTION E: ANIMALS PRESENT**

	GA #	Field #	Deficiency or Pollution Type	Latitude Longitude		Pollutant Remarks	Contact	Overall Site Remarks	Locality	DSS Staff
2191	12	117	ANIMALS PRESENT, indirect	37.860650	1-76 297692	One cow observed on fields; all fields well maintained.		Pasture near headwaters of creek.	Northumberland	JF

### **SUMMARY**

Growing Area # 012 Cockrell Creek 27 March 2024

## **SECTION B: SEWAGE POLLUTION SOURCES**

- 1. SEWAGE TREATMENT FACILITIES
  - 1 DIRECT # 2.7
  - <u>1</u> INDIRECT # 30
  - 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.
  - <u>0</u> 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
  - 2 DIRECT # 16A, 51
  - <u>1</u> INDIRECT # 25
  - 3 C.1. TOTAL
- 2. SOLID WASTE SITES
  - 0 DIRECT None
  - <u>0</u> INDIRECT None
  - 0 C.2. TOTAL
- 3. STORMWATER OUTFALLS
  - 0 DIRECT None.
  - 0 INDIRECT None.
  - 0 C.3. TOTAL

#### **SECTION D: BOATING ACTIVITY**

- 5 MARINA # 41, 50, 180, 250, 266
- 10 UNDER SURVEILLANCE # 1.6, 3.7, 7, 13.4, 33, 48, 53, 178, 274, J32A
- 15 D. TOTAL

#### SECTION E: ANIMALS PRESENT

- 0 DIRECT None
- <u>1</u> INDIRECT # 117
- 1 E. TOTAL

