



COMMONWEALTH of VIRGINIA
DEPARTMENT OF HEALTH
DIVISION OF SHELLFISH SAFETY

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YORK RIVER: WEST POINT VICINITY
Growing Area # 049
King and Queen, King William, and New Kent Counties
Shoreline Sanitary Survey

Date: 24 October 2022

Survey Period: July 8, 2022 – September 13, 2022

Total Number of Properties Surveyed and Near shore Samples Collected: 113

Surveyed By: L. Sakach, F. Monis, C. Turner, I. Geeson, E. Yeargan, J. Dickerson

SECTION A: GENERAL

This survey area extends from Reference Point 49 at Belleview on the York River to the mouth of Burnt Mill Creek on the Mattaponi River, across the Mattaponi River to a point opposite the mouth of Burnt Mill Creek, across King William County to the mouth of Herrick Creek on the Pamunkey River, across the Pamunkey River to a point opposite the mouth of Herrick Creek and south to Reference Point 50 at Terrapin Point on the York River; including the shoreline of the York River, Mattaponi River and the Pamunkey River between these two reference points, Hockley Creek, Bakers Creek, Robinson Creek, Goalders Creek, West Point Creek, Eltham Marsh, Thorofare, Mill Creek, Ferry Creek, Baker Creek, Philbates Creek and all of their tributaries.

The topography of the area varies in elevation from 5' around the shoreline to a maximum of 50' at the outer edge of the survey boundary. The population varies from sparse in the countryside with moderate concentrations along US Route 33 in King and Queen County and the communities of Eltham, Plum Point, and Barhamsville in New Kent County to somewhat heavy in and around the Town of West Point. The 2021 U.S. Census population totals and percent change over the past ten years in each county is noted below: King William 18,171 (+13.5%) King & Queen 6,662 (-4.6%) New Kent 23,897 (+27.4%). The economy is dependent primarily upon industry, commerce and agriculture. The town of West Point is connected to a HRSD wastewater treatment plant. The paper mill is inspected by DEQ and has a discharge permit to Pamunkey River adjacent to the facility. Parham Landing wastewater treatment plant provides treated water for irrigation to Colonial Downs Racetrack and two local golf courses as well as the log yard for the paper mill. Their discharge to the Pamunkey River is just upstream of the growing area boundary.

The Code of Virginia [9VAC25-830-130](#) requires that septic systems that do not have a Virginia Pollutant Discharge Elimination System (VPDES) permit must be pumped out or inspected once every five (5) years.

Meteorological data indicated that 11.74" of rain fell during the survey period. A monthly breakdown of rainfall is as follows:

July 8-31 4.92" August 3.96" September 1-13 2.86"

Nearshore seawater stations were established to survey the full extent of waters beyond routine classification stations and in some instances, upstream of growing area boundaries. 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 # 049 Nearshore Sampling

<u>Sample dates</u>	<u>High Tide</u> *	<u>Ebb Current</u> **	<u>Sampling time</u>	<u>Enterococcus range (MPN/100ml)</u>	<u>Day of</u>	<u>Previous 24 hours</u>	<u>Previous 7 days</u>
7/25/22	9:51am	10:13am	9:45am-12:49pm	<10 - 1178	0.02	0.04	0.63
7/26/22	10:37am	11:00am	10:28-11:40am	<10 - 146	0.86	0.02	0.65
8/22/22	8:28am	8:56am	10:06-11:30am	<10 - 173	0.05	0.04	0.13

* High tide estimated from West Point.

** Slack ebb current estimated from West Point, 0.8 mile below.

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-virginia-pollutant-discharge-elimination-system> 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 <http://www.vdh.virginia.gov/shellfish/>.

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 C: NONSEWAGE WASTE SITES

	GA #	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	DSS Staff
2077	49	A45	9/9/2022	INDUSTRIAL WASTES, direct	37.541277	-76.811374	Discharge for VA0003115.		Business	N		King William	IG
5017	49	45	10/13/2022	INDUSTRIAL WASTES, indirect	37.540199	-76.803535	Receives water from Parham WWTP. DEQ Inspection on file. Outfall to Pamunkey River.			N	DEQ permit # VA0003115.	King William	IG
2082	49	C12	10/14/2022	INDUSTRIAL WASTES, indirect	37.540367	-76.791635	Fuel depot. Several large tanks behind earthen berm.	NA	Business	N		King William	IG
2085	49	F2	9/23/2022	INDUSTRIAL WASTES, indirect	37.536410	-76.769323	Located on property; one 500 gallon used-oil above ground tank which is pumped every two weeks.		Business	Y		King & Queen	FM
2095	49	LS2	9/30/2022	INDUSTRIAL WASTES, indirect	37.510857	-76.760245	Last survey indicated presence of gas and oil tanks.		Business	N	Gated. No access. Contact unreachable by phone.	King & Queen	LS
2083	49	LS4	8/19/2022	INDUSTRIAL WASTES, indirect	37.523876	-76.762375	Permit # VAR051609 expires 6/30/24.		Business	N	Middle Peninsula Regional Airport.	King & Queen	LS
2081	49	LS5	8/19/2022	INDUSTRIAL WASTES, indirect	37.531549	-76.764829	Permit # VAR051378 expires 6/30/24.		Business	N	Premier Horticulture Incorporated.	King & Queen	LS
2067	49	CY2	8/5/2022	SOLID WASTE SITES, direct	37.529251	-76.818712	Active towing business, observed 5 commercial vehicles, 12 cars, and various trailers behind a fence.		Business	Y		New Kent	CT
2087	49	F4	9/23/2022	SOLID WASTE SITES, indirect	37.535012	-76.779255	Observed approximately one 235 gallon tank, one 125 gallon tank, and one 55 gallon drum of waste oil and antifreeze.		Business	N		King & Queen	FM
2086	49	F5	10/13/2022	SOLID WASTE SITES, indirect	37.535102	-76.779577	Observed two 55 gallon drums of waste oil. Not brimmed, but elevated and inside building.		Business	Y		King & Queen	FM

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
2065	49	CY5	9/9/2022	CONTRIBUTES ANIMAL POLLUTION, indirect	37.500033	-76.818363	Small farm with 3 pigs, 2 horses, various goats and chickens. Waste disposal process is unknown.		Dwelling	Y		New Kent	CT
2064	49	CY6	9/13/2022	CONTRIBUTES ANIMAL POLLUTION, indirect	37.487203	-76.809755	No access, animal pasture observed from road.		Dwelling	N		New Kent	CT
2084	49	F3	9/23/2022	CONTRIBUTES ANIMAL POLLUTION, indirect	37.537320	-76.768185	Pasture located directly behind shopping center. Site visit 9/21/22-no steers observed. Person in charge stated steers are on other side of pasture. Manure and waste disposal is left on ground.		Agri	Y		King & Queen	FM
4999	49	G1A	10/14/2022	CONTRIBUTES ANIMAL POLLUTION, indirect	37.487997	-76.793743	Large horse pasture with fence. No animals observed.		Dwelling	N		New Kent	IG
5000	49	G2A	10/13/2022	CONTRIBUTES ANIMAL POLLUTION, indirect	37.507939	-76.806928	2 horses observed in fence		Dwelling	N		New Kent	IG

SUMMARY

Growing Area # 049
York River: West Point Vicinity
24 October 2022

SECTION B: SEWAGE POLLUTION SOURCES

1. SEWAGE TREATMENT FACILITIES

- 1 – DIRECT – # G4A
- 3 – INDIRECT – # A44, L56, L56A
- 4 – 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 – # F6

SECTION C: NON-SEWAGE WASTE SITES

1. INDUSTRIAL WASTE SITES

- 1 – DIRECT – # A45
- 6 – INDIRECT – # 45, C12, F2, LS2, LS4, LS5
- 7 – C.1. TOTAL

2. SOLID WASTE SITES

- 1 – DIRECT – # CY2
- 2 – INDIRECT – # F4, F5
- 3 – C.2. TOTAL

3. STORMWATER OUTFALLS

- 0 – DIRECT – None.
- 0 – INDIRECT – None.
- 0 – E. TOTAL

SECTION D: BOATING ACTIVITY

- 1 – MARINAS – # A46
- 4 – UNDER SURVEILLANCE – # F1, G1, G2, G13
- 5 – D. TOTAL

SECTION E: CONTRIBUTES ANIMAL POLLUTION

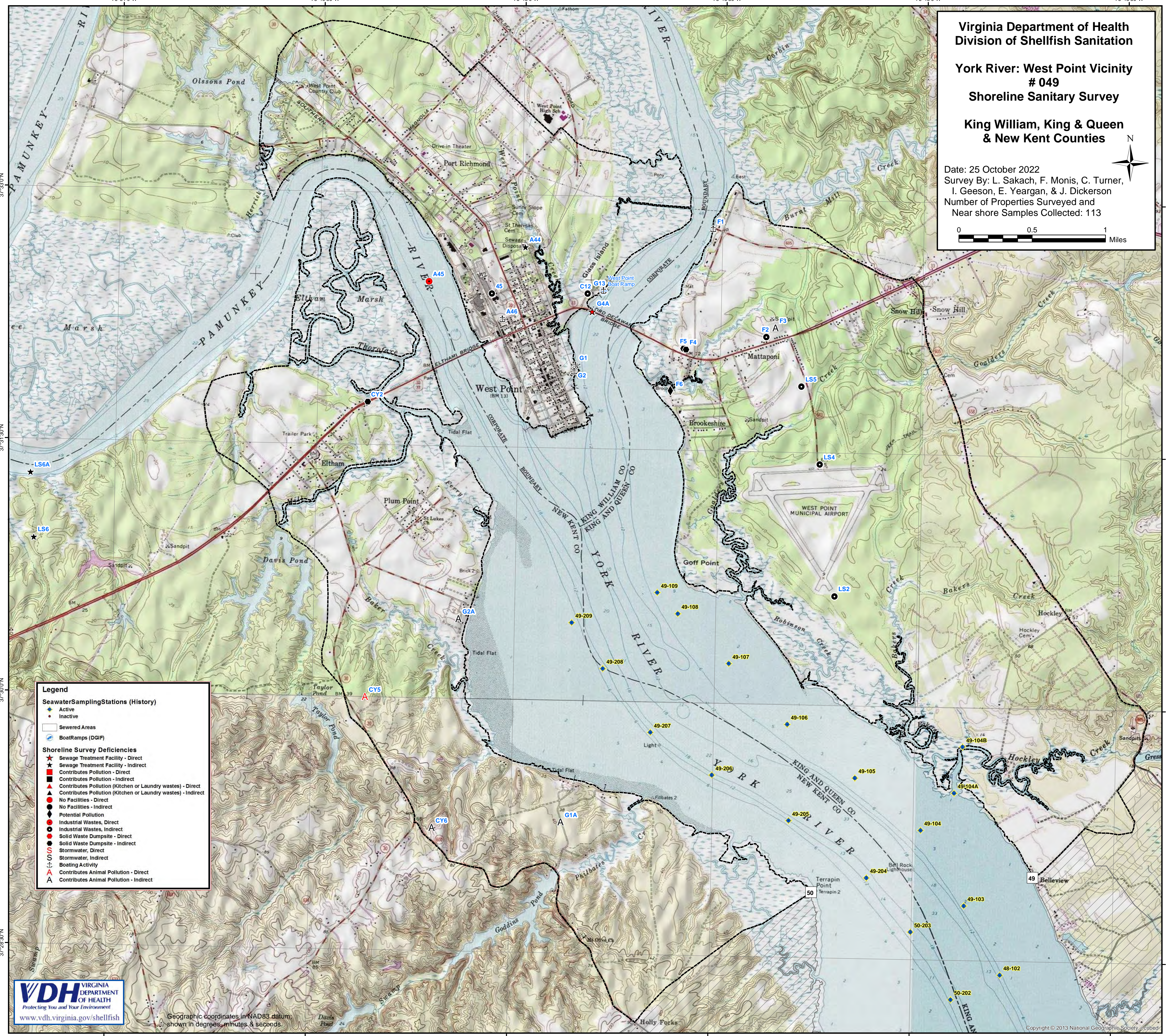
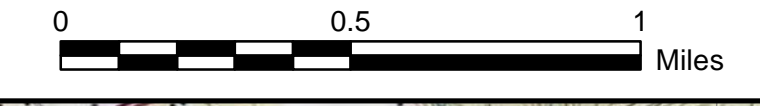
- 1 – DIRECT – # CY5
- 4 – INDIRECT – # CY6, F3, G1A, G2A
- 5 – E. TOTAL

Virginia Department of Health
Division of Shellfish Sanitation

York River: West Point Vicinity
049
Shoreline Sanitary Survey

King William, King & Queen
& New Kent Counties

Date: 25 October 2022
Survey By: L. Sakach, F. Monis, C. Turner,
I. Geeson, E. Yeagan, & J. Dickerson
Number of Properties Surveyed and
Near shore Samples Collected: 113



Legend

Seawater Sampling Stations (History)

- Active (Blue diamond)
- Inactive (Red circle)

Sewered Areas (Red outline)

Boat Ramps (DGIF) (Blue circle with 'B')

Shoreline Survey Deficiencies

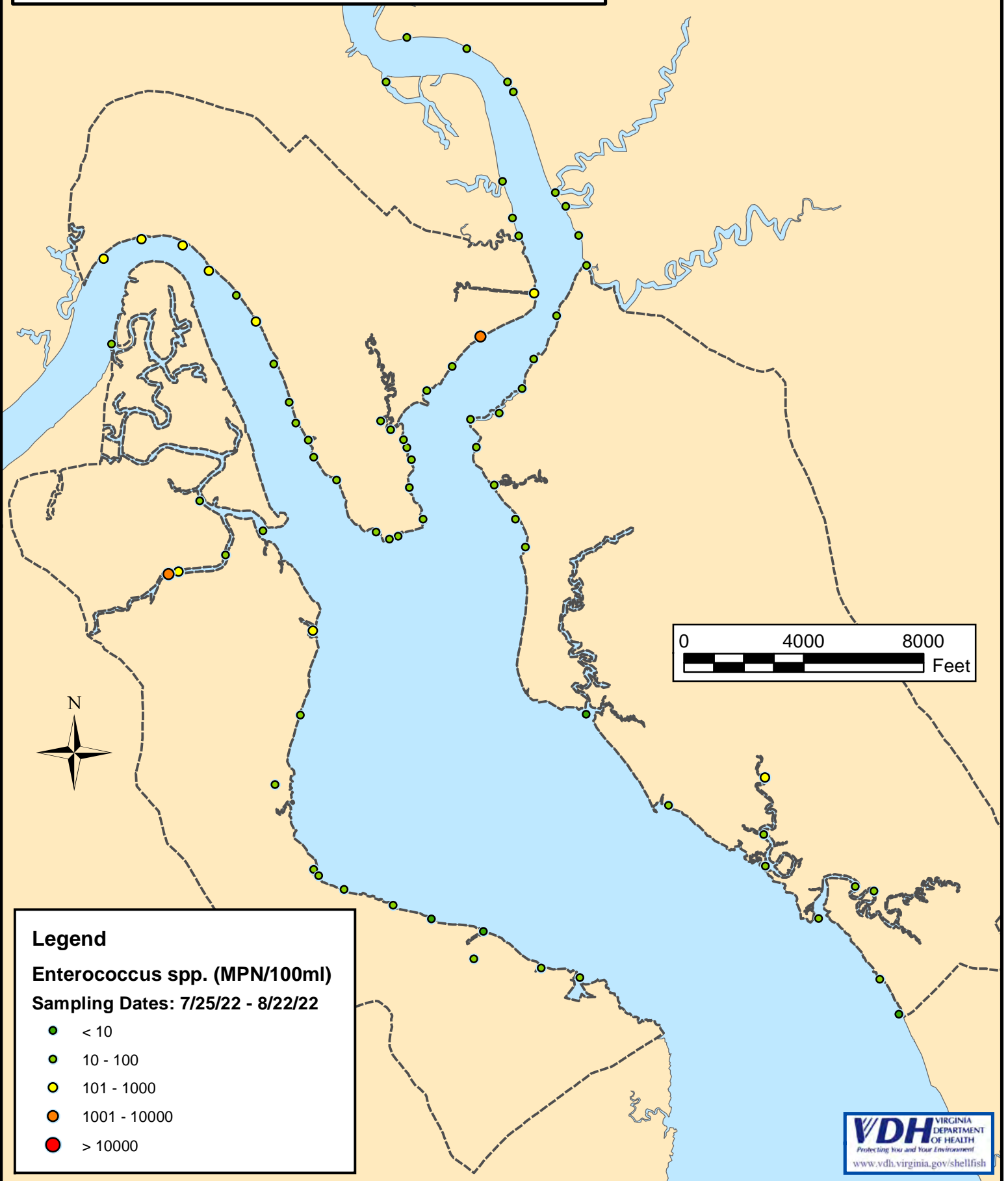
- Sewage Treatment Facility - Direct (Red star)
- Sewage Treatment Facility - Indirect (Black star)
- Contributes Pollution - Direct (Red square)
- Contributes Pollution - Indirect (Black square)
- Contributes Pollution (Kitchen or Laundry wastes) - Direct (Red triangle)
- Contributes Pollution (Kitchen or Laundry wastes) - Indirect (Black triangle)
- No Facilities - Direct (Red circle)
- No Facilities - Indirect (Black circle)
- Potential Pollution (Red diamond)
- Industrial Wastes, Direct (Red circle)
- Industrial Wastes, Indirect (Black circle)
- Solid Waste Dumpsite - Direct (Red circle)
- Solid Waste Dumpsite - Indirect (Black circle)
- Stormwater, Direct (Red circle)
- Stormwater, Indirect (Black circle)
- Boating Activity (Red circle)
- Contributes Animal Pollution - Direct (Red circle)
- Contributes Animal Pollution - Indirect (Black circle)



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

**Near-Shore Enterococcus Sampling
Growing Area # 049 - York River: West Point Vicinity
King William, King & Queen & New Kent Counties**

* Highest value was 1178 collected on July 25, 2022.



Legend

Enterococcus spp. (MPN/100ml)

Sampling Dates: 7/25/22 - 8/22/22

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