



COMMONWEALTH of VIRGINIA

Department of Health
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PUNGOTEAGUE CREEK Growing Area # 081 Accomack County Shoreline Sanitary Survey

Date: 10 March 2023

Survey Period: September 20, 2022 – March 8, 2023

Total Number of Properties Surveyed and Samples Collected: 160

Surveyed By: T. Charnock, R. Snead, & I. Geeson

SECTION A: GENERAL

This survey area extends from Reference Point 81 at WestPoint to Reference Point 82 at Route 633 extended to the Chesapeake Bay shore, including the Chesapeake shoreline between these two points, Pungoteague Creek (Underhill Creek, Bull Branch, Warehouse Prong, Moore Branch, Hollies Church Branch, Taylor Creek, Horse Hole, Buckland Gut, and Hancock Gut) and Butcher Creek. The survey boundary was revised. See map for current survey boundaries.

Elevations in the area rise from 5-10' near the shoreline to approximately 45' at the outer reaches of the survey area. The area is sparsely populated with the exception of the village of Harborton and a residential development near the Eastern Shore Yacht and Country Club. The economy is based predominantly on agricultural, consisting of the cultivation of grain crops and various fruits.

Meteorological data indicated that 13.99" of rain fell during the survey period. A monthly breakdown follows:

Sep. 16-30, 2022	1.17"	October	4.25"	November	2.17"	December	2.37"
Jan. 2023	2.02"	February	1.42"	March 1-7	0.59"		

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 # 081 Nearshore Sampling					Rainfall in Inches	
Sample dates	High Tide*	Ebb Current**	Sampling time	Enterococcus range (MPN/100ml)	Day of	Previous 24 hours
9/20/22	08:02	09:56	09:13-11:22	<10-63	0	0
9/21/22	08:59	10:52	09:16-11:09	<10-135	0	0
10/19/22	07:17	09:32	09:08-10:37	<10-1607	0	0.77
1/31/23	07:41	10:42	09:59-10:58	<10-10	0.03	0.15
3/2/23	08:03	11:07	08:44-11:08	<10-241	0.44	0
Total rainfall for nearshore sampling period (9/20/22 – 3/2/23) was 13.84”.						

* High tide estimated from Harborton, Pungoteague Creek.

** Slack ebb current estimated from Pocomoke Sound Approach.

Information in this report is gathered by and primarily for use by the Division of Shellfish Safety and Waterborne Hazards, 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 <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.

SECTION B: SEWAGE POLLUTION SOURCES

[illegible]

SECTION C: NONSEWAGE WASTE SITES

[illegible]

SECTION D: BOATING ACTIVITY

[illegible]

SECTION E: CONTRIBUTES ANIMAL POLLUTION

[illegible]

SUMMARY

Growing Area # 081
Pungoteague Creek
10 March 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 – # T1

SECTION C: NON-SEWAGE WASTE SITES

1. INDUSTRIAL WASTE SITES

0 – DIRECT – None.

0 – INDIRECT – None.

0 – C.1. TOTAL

2. SOLID WASTE DUMPSITES

0 – DIRECT – None.

0 – INDIRECT – None.

0 – C. 2. TOTAL

3. STORMWATER

0 – DIRECT – None.

0 – INDIRECT – None.

0 – C.3. TOTAL

SECTION D: BOATING ACTIVITY

2 – MARINAS – # T5, T7

2 – UNDER SURVEILLANCE – # T2, T3

3 – D. TOTAL

SECTION E: CONTRIBUTES ANIMAL POLLUTION

0 – DIRECT – None.

1 – INDIRECT – # T6

1 – E. TOTAL

Virginia Department of Health
Division of Shellfish Sanitation

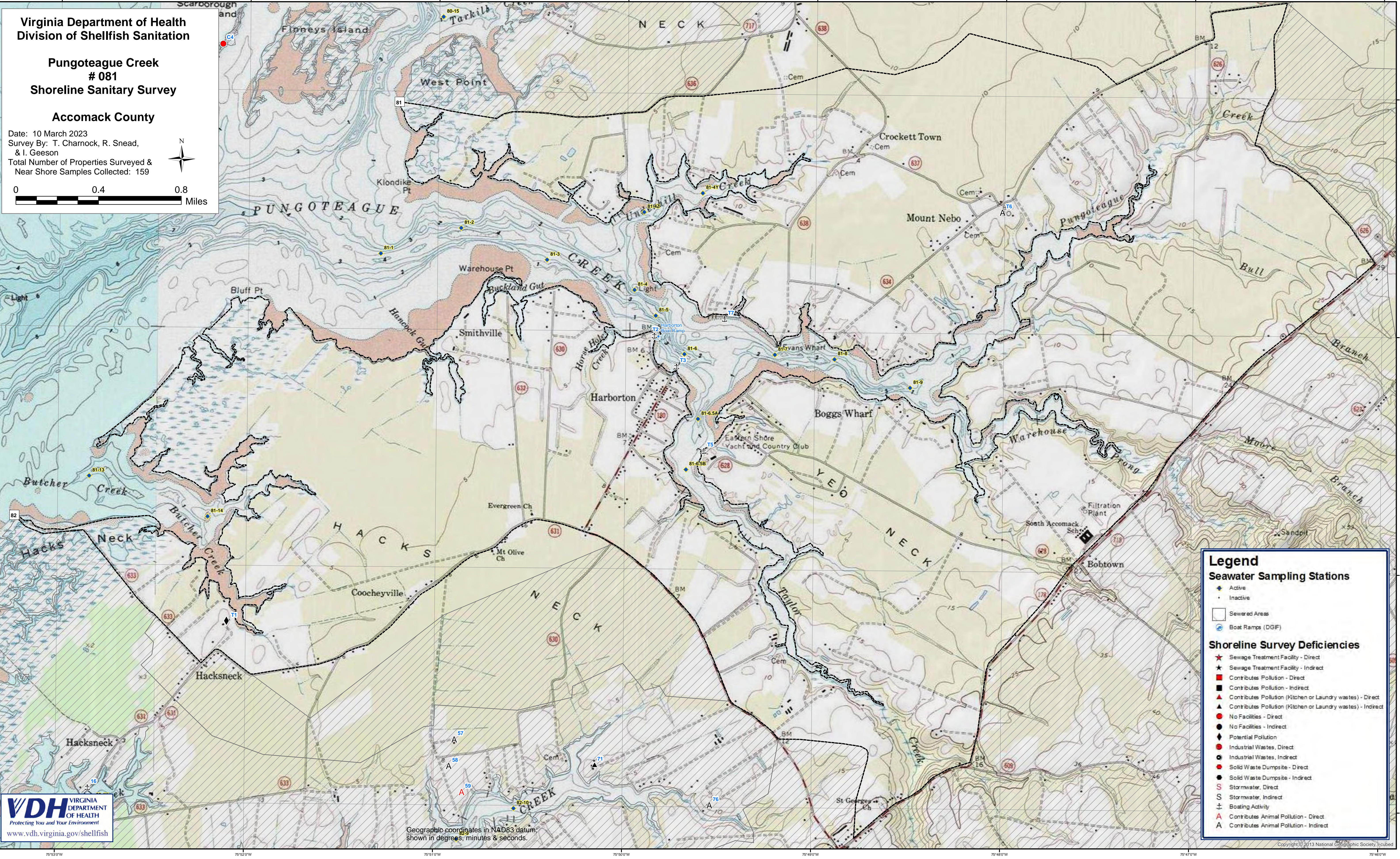
Pungoteague Creek
081
Shoreline Sanitary Survey

Accomack County

Date: 10 March 2023
Survey By: T. Charnock, R. Snead,
& I. Geeson
Total Number of Properties Surveyed &
Near Shore Samples Collected: 159



0 0.4 0.8
Miles



Legend

Seawater Sampling Stations

- Active
- Inactive

Sewered Areas

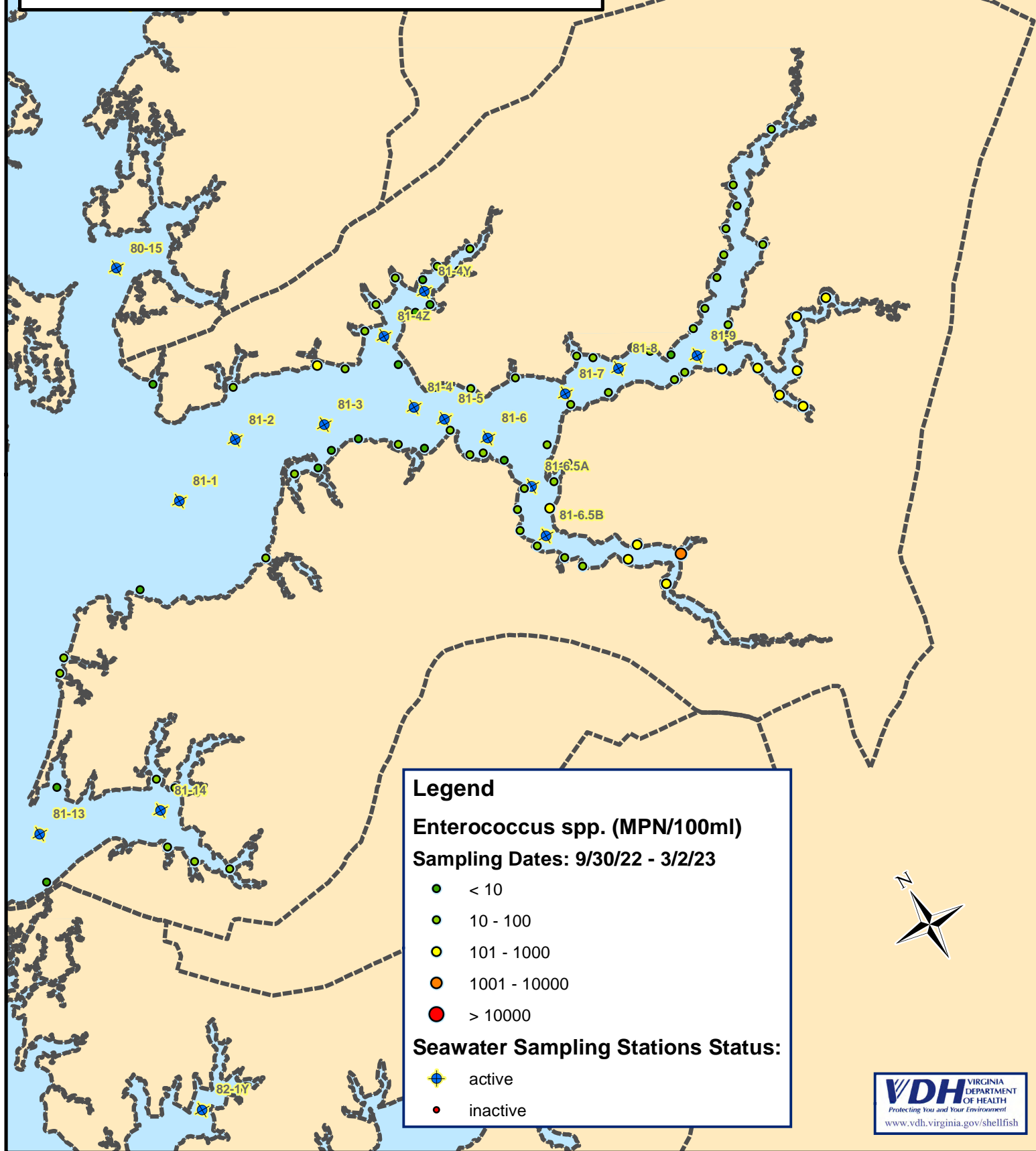
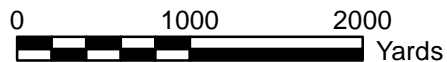
Boat Ramps (DGIF)

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

Near Shore Enterococcus Sampling Growing Area # 081 - Pungoteague Creek Accomack County

* Highest value was 1607 collected on 10/19/22.



Legend

Enterococcus spp. (MPN/100ml)

Sampling Dates: 9/30/22 - 3/2/23

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

Seawater Sampling Stations Status:

- ◆ active
- inactive

