



COMMONWEALTH of VIRGINIA
DEPARTMENT OF HEALTH
DIVISION OF SHELLFISH SAFETY

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HORN HARBOR AND DYER CREEK
Growing Area # 039
Mathews County
Shoreline Sanitary Survey

Date: 20 January 2022

Survey Period: September 7 – December 14, 2021

Number of properties visited and Near-shore Enterococci samples collected: 296

Surveyed By: W. Barrack, W. McCarty, J. Carrier, A. Wood, I. Geeson, A Roach

SECTION A: GENERAL

This survey area extends from Reference Point 39 at Beach Point to Reference Point 40 at New Point Comfort, including the Chesapeake Bay shoreline between these two points, Horn Harbor (Smith Creek), Doctors Creek, Dyer Creek and all of their tributaries within a designated boundary line drawn by the Division of Shellfish Sanitation.

The topography of the area has low elevation, rising to a maximum of 10 feet above sea level. The population is moderate with a concentration of dwellings along the waterfront. Many dwellings are occupied as part time vacation properties.

The economy is based on local commerce, forestry, boating and fishing, seafood and retail trade.

Meteorological data indicated that the area received a total precipitation of 6.19" for the survey period. A monthly breakdown is as follows:

September 7-30	1.32"	October 3-38"	November 1-16"	December 1-14	0.33"
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Nearshore seawater stations were established to survey the full extent of 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.

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 www.vdh.virginia.gov/shellfish/. Information in this report is gathered by and primarily for use of 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.

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. Individual field forms with full information on properties listed in this report are on file in the Richmond Office of the Division of Shellfish Safety and are available for reference until superseded by a subsequent resurvey of the area. Data in the report is also made available to local health departments and other agencies to address items that may be out of compliance with their regulatory programs.

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 56 Nearshore Sampling					Rainfall in inches		
Sampling Dates	High Tide	Ebb Current	Sampling Time	Enterococcus range (MPN/100mL)	Day of	Previous 24 hours	Previous 7 days
9/7/21	10:00	13:33	11:16 - 13:40	<10 - 85	0.00	0.00	0.27
9/8/21	10:43	14:24	12:15 - 13:28	<10 - 183	0.34	0.00	0.27
9/20/21	9:21	13:03	10:10 - 12:45	<10 - 62	0.00	0.00	0.02
10/5/21	8:47	12:28	10:05 - 12:57	<10 - 197	0.00	0.00	0.07
10/6/21	9:32	13:18	10:18 - 13:14	<10 - 404	0.21	0.00	0.28
11/4/21	9:06	13:01	10:36 - 12:03	<10 - 199	0.00	0.01	1.18
11/9/21	12:34	16:25	12:20 - 14:18	<10 - 1388	0.00	0.00	0.05

* High Tide from Wolf Trap Light.

** Ebb Slack Current from Wolf Trap Light.

SECTION B: SEWAGE POLLUTION SOURCES

[illegible]

SECTION C: NONSEWAGE WASTE SITES

[illegible]

SECTION D: BOATING ACTIVITY

[illegible]

Shoreline Survey # 039

SECTION E: CONTRIBUTES ANIMAL POLLUTION

[illegible]

SUMMARY

Growing Area # 039
Horn Harbor and Dyer Creek
20 January 2022

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 the 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 - # G2

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

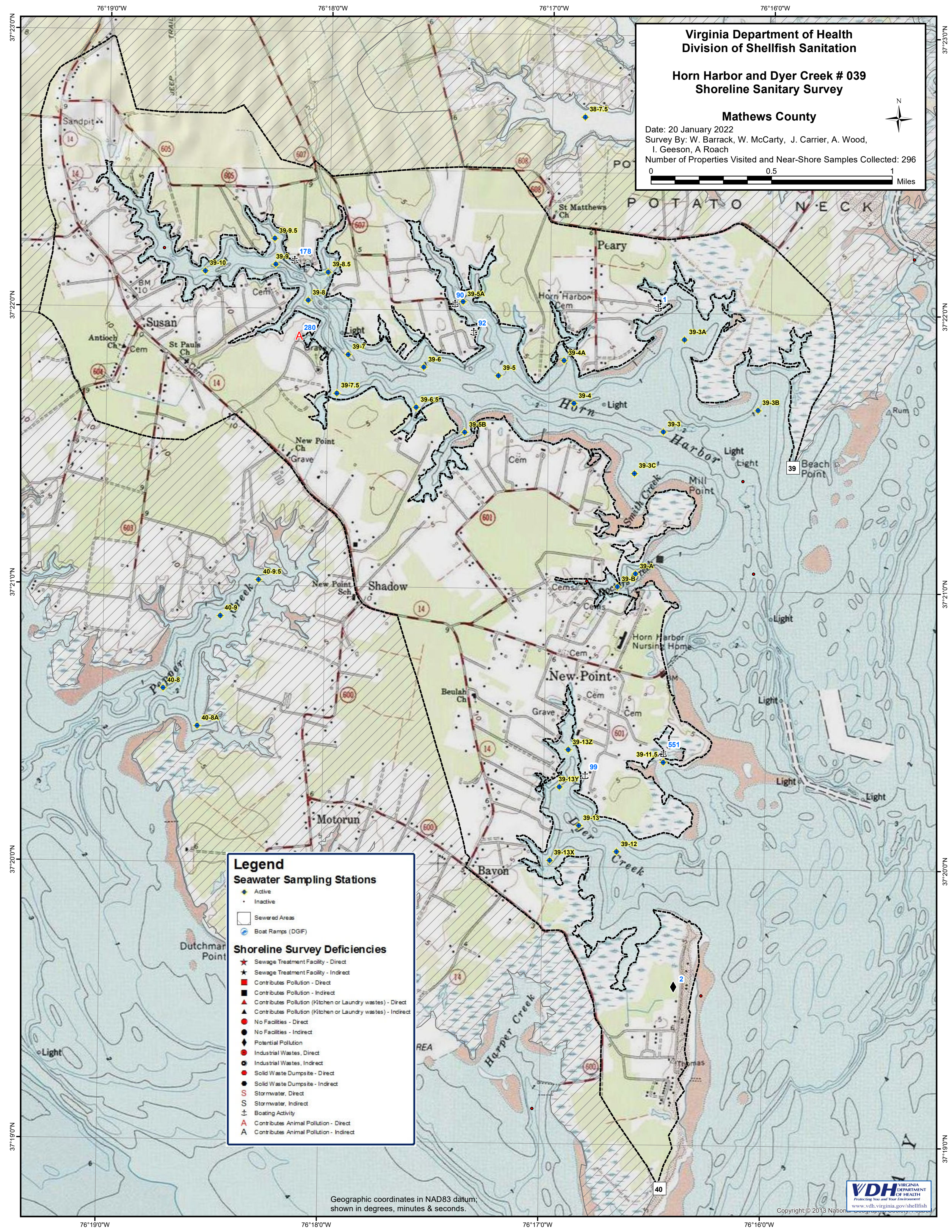
0 – DIRECT – None.
0 – INDIRECT – None.
0 – E. TOTAL

SECTION D: BOATING ACTIVITY

3 – MARINA – # 92, 178, 551
0 – OTHER PLACES WHERE BOATS ARE MOORED – None.
3 – UNDER SURVEILLANCE – # 90, G1, 99.62
5 – D. TOTAL

SECTION E: CONTRIBUTES ANIMAL POLLUTION

1 – DIRECT – # 280
0 – INDIRECT – None.
1 – E. TOTAL



Virginia Department of Health
Division of Shellfish Sanitation

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Mathews County

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I. Geeson, A Roach
Number of Properties Visited and Near-Shore Samples Collected: 296

00.51

Miles

N

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

S

Stormwater, Direct

S

Stormwater, Indirect

⚓

Boating Activity

A

Contributes Animal Pollution - Direct

A






Contributes Animal Pollution - Indirect

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

GA # 039 - Horn Harbor & Dyer Cr Enterococci Sampling

- Highest Sample:
1388 at #106 on 11/4/21.

Legend
Enterococcus spp. (MPN/100ml)
Sampling Dates: 9/7/21 - 11/4/21

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

0 4000 8000
Feet

27 December 2021