

COMMONWEALTH of VIRGINIA DEPARTMENT OF HEALTH DIVISION OF SHELLFISH SAFETY

Colin M. Greene, MD, MPH State Health Commissioner 109 Governor Street, 6th Floor P.O. Box 2448 Richmond, Virginia 23218-2448

Ph: 804-864-7487 Fax: 804-864-7481

VIRGINIA BEACH Growing Area # 073 City of Virginia Beach Shoreline Sanitary Survey

Date: 29 June 2022

Survey Period: March 31 – May 26, 2022

Total Number of Properties Surveyed and Near Shore Samples Collected: 20

Surveyed By: I. Geeson

SECTION A: GENERAL

This survey area extends from Reference Point 73 at the east end of the Lesner Bridge to Reference Point 74A on the Atlantic Ocean, at the southeastern most point of the U.S. Naval Reservation at Dam Neck, including the Atlantic Ocean between these points; Rudee Inlet, Lake Rudee, Owls Creek, Lake Wesley, and Lake Christine; and all of their tributaries. Outside of Fort Story and First Landing State Park, the population is dense. Gentle hills and dunes in First Landing Park and on Fort Story reach heights of 30-50'. Low swamps, marshes and wetlands are found throughout the park and in sections of the fort. The northern part of this survey area is connected to the HRSD collection system for final treatment at the Chesapeake-Elizabeth Wastewater Treatment Plant. The southern portion of this survey is connected to the HRSD Atlantic Treatment Plant with discharges to Lake Tecumseh, Chowan & Dismal Swamp, and the Atlantic Ocean offshore of Dam Neck Road.

At the time of this writing there are no shellfish leases or public harvest grounds in this survey area. Virginia Marine Resource Commission retains the authority to issue leases within Rudee Inlet and up to the colregs boundary 3 nautical miles offshore of the Atlantic coast upon request.

Meteorological data indicated that 6.64" or rain fell during the period from March 31 to May 26. A monthly breakdown is as follows:

March 31, 2022 0.42" April 2.05" May 1-26 4.17"

Rudee Inlet has heavy recreational boating activity during the warm weather months and there are commercial animal watching and fishing excursions year round. While there are pump out facilities at several of the marinas in this watershed, some of the larger commercial tour boats use a US Coast Guard Approved Type 1 or Type 2 Marine Sanitation Device and are allowed to discharge their treated waste into the growing area. VDH Marina Program Inspections indicate that there are no formal liveaboard agreements at any of the inspected facilities. During this survey the shoreline was visually inspected for evidence of liveaboards at marinas and private piers and none were observed. There is a large floating



structure in the tributary that feeds into the Northwest section of Lake Rudee, but there is no evidence that this houseboat is currently habitable.

A large tract of land located on the south side of the survey area between Rudee Inlet and Birdneck Road is owned by the federal government and the City of Virginia Beach and undeveloped. The Rudee Inlet complex drains stormwater south from approximately 19th Street and east from Birdneck Road.

Nearshore seawater stations were established in Rudee Inlet to survey waters beyond routine classification stations. Stations were created in closer proximity to the shoreline and farther upstream than routine stations.

Hydrographic data, sampling times and range of enterococcus concentrations measured are shown in the table below. Maps of the enterococcus sampling and are shown at the conclusion of this report.

	Gro	Rainfall in Inches									
Sample Dates	Tidal stage*	Current**	Sampling Times	Enterococcus range (MPN/100ml)	Day of	Previous 24 hours	Previous 7 days				
3/31/22*	1.8' rising	slack flood 17:14	16:59-17:41	<10-30	0.42"	0"	0.31"				
4/11/22	1.9' rising	ebbing to a 14:51 slack	14:02-14:32	all samples below detection (<10)	0"	0"	1.11"				
	Total Rainfall for sampling period: 6.64"										

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-virginiapollutant-discharge-elimination-system

Copies of the current condemnation notices and maps are available via the Internet at: https://www.vdh.virginia.gov/environmental-health/environmental-health-services/shellfishsafety/

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.

The Virginia Department of Health's Beach Monitoring Program conducts water sampling along 45 public beaches in Virginia which are analyzed weekly for enterococci during the recreational swimming season (May-September). Included within the Growing Area 73 survey boundary are 20 recreational beach monitoring sites along the Atlantic Ocean and Shore Drive. At these stations the three most recent seasons of data were reviewed. Each site had a geometric mean of less than 35 MPN/100ml and the percentage of exceedances to the swimming advisory threshold of ≥104 MPN/100ml was between 0-5%. Taken together this indicates that there are not significant or persistent impairments to water quality.

A map of this analysis is included at the end of this report. A real time interactive map of beach monitoring sites can be found online at:

https://www.vdh.virginia.gov/waterborne-hazards-control/swimming-advisories-and-monitored-beaches-map/

Shoreline Survey # 073

SECTION B: SEWAGE POLLUTION SOURCES

ОВЈЕСТИ	GA #	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	DSS Staff	Date of Correction	Correction Notes
496	73	10A	5/5/2022	SEWAGE TREATMENT FACILITY, direct	36.782576	-75.929002	Outfall for Atlantic STP.	NA		l N	Offshore outfall for HRSD Atlantic STP, # VA0081248.	Virginia Beach	IG		
187	73	10	5/9/2022	SEWAGE TREATMENT FACILITY, indirect	36.772868	-75.974366	Design Flow 57 MGD, Average Flow 43 MGD, Max Flow 57 MGD.	NA	Business	N	Atlantic Wastewater Treatment Plant, HRSD. VPDES permit # VA0081248 outfall # 001.	Virginia Beach	IG		

Shoreline Survey # 073

SECTION C: NONSEWAGE WASTE SITES

OBJECTID	GA #	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	DSS Staff
4975	73	11	5/19/2022	INDUSTRIAL WASTES, indirect	36.810234	I-/5 9X4555	Superfund site see EPA.gov for site specifics.	NA	Public	l N	Camp Pendleton. EPA ID: VA1170090012	Virginia Beach	IG
4976	73	12	5/19/2022	INDUSTRIAL WASTES, indirect	36.778884	I-75.957114	Superfund site see EPA.gov for site specifics.	NA	Public		USN Fleet Combat Training Center. EPA ID: VA5170022938	Virginia Beach	IG
4964	73	33	5/19/2022	INDUSTRIAL WASTES, indirect	36.926291	I-/b.U/44/1	Superfund site see EPA.gov for site specifics.	NA	Public	N	Fort Story. EPA ID: VA6210020875	Virginia Beach	IG
4964	/3		5/19/2022	WASTES, indirect	30.920291	-76.024421	specifics.	IVA	Public	IN	FUIT STUTY. EFA ID. VA02100208	375 ——	Virginia beacii

SECTION D: BOATING ACTIVITY

OBJECTID	GA #	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Pollutant Remarks	Septic System Type Structure Type Contact		Contact	Overall Site Remarks	Locality	Boating Activity Type	Number of Wet Slips	NUM BOATS <26'	NUM BOATS >26'	Evidence of Live- Aboards	DSS Staff
1869	73	1	5/4/2022	BOATING ACTIVITY	36.832193	-75.973623		NA	Marine	N	Virginia Beach Fishing Center. Inspected by LHD April 2022.	Virginia Beach	Marina	50	11	22	N	IG
1870	73	2	5/4/2022	BOATING ACTIVITY	36.831531	-75.976444		NA	Marine	N	Fishermans Wharf Marina. Marina program inspection April 2022.	Virginia Beach	Marina	92	36	4	N	IG
1871	73	3	5/4/2022	BOATING ACTIVITY	36.831106	-75.977069		NA	Marine	N	Inlet Station Marina. LHD inspection April 2022.	Virginia Beach	Marina	61	10	14	N	IG
1872	73	4	5/4/2022	BOATING ACTIVITY	36.831317	-75.977749		NA	Marine	N	Virginia Beach Marlin Club. Marina LHD inspection April 2022.	Virginia Beach	Marina	0	0	0	N	IG
1876	73	8	5/4/2022	BOATING ACTIVITY	36.830406	-75.974844		NA	Marine	N	Harbor Point Marina. Marina LHD inpection April 2022.	Virginia Beach	Marina	62	8	8	N	IG
1877	7 73	9	5/5/2022	BOATING ACTIVITY	36.828636	-75.971543		NA	Marine	N	Southside Marina Extension of VB Fishing Center for boats that don't fit under bridge. 1 portable toilet at site.	Virginia Beach	Marina	14	0	6	N	IG
1873	73	5		BOATING ACTIVITY	36.824569	-75.985123		NA	Marine	N	Virginia Beach Municipal Dredge Operations. Staging wharf for dredge operations. Fire and Police vessels present.	Virginia Beach	Under Surveillance	6	0	4	N	IG
1874	73	6		BOATING ACTIVITY	36.824246	-75.984334		NA	Marine	N	U.S. Army (Rudee Inlet). LHD visit March 2022. Gated facility, no public access.	Virginia Beach	Under Surveillance	4	0	2	N	IG
1875	73	7		BOATING ACTIVITY	36.823131	-75.981340		NA	Marine	N	Owl Creek Public Boat Ramp. LHD inspection March 2022	Virginia Beach	Under Surveillance	0	0	0	N	IG
4998	3 73	G1D	7/5/2022	BOATING ACTIVITY	36.822172	-75.982319			Marine	Y	Virginia Aquarium Boat Tour dock.	rginia Bea	Under Surveillance	0	0	0		IG

Shoreline Survey # 073

SECTION E: CONTRIBUTES ANIMAL POLLUTION

OBJEC	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	DSS Staff

SUMMARY

Growing Area # 073 Virginia Beach 29 June 2022

SECTION B: SEWAGE POLLUTION SOURCES

- 1. SEWAGE TREATMENT FACILITIES
 - 1 DIRECT # 10A
 - 1 INDIRECT # 10
 - 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
 - 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.
 - 0 POTENTIAL POLLUTION None

SECTION C: NON-SEWAGE WASTE SITES

- 1. INDUSTRIAL WASTE SITES
 - 0 DIRECT None
 - 3 INDIRECT # 11, 12, 33
 - 3 C.1. TOTAL
- 2. SOLID WASTE DUMPSITES
 - 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

- 6 MARINAS # 1, 2, 3, 4, 8, 9
- 0 OTHER PLACES WHERE BOATS ARE MOORED None.
- 4 UNDER SURVEILLANCE # 5, 6, 7, G1D
- 10 D. TOTAL

SECTION E: CONTRIBUTES ANIMAL POLLUTION

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



