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COMMONWEALTH of VIRGINIA

Department of Health Division of Shellfish Safety

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M. Norman Oliver, MD, MA State Health Commissioner

OCCOHANNOCK CREEK Growing Area # 084 Accomack and Northampton Counties Shoreline Sanitary Survey

Date: 24 January 2019

Survey Period: May 18, 2018 – January 23, 2019

Total Number of Near Shore Samples Collected and properties Surveyed: 153

Surveyed By: B.T. Charnock and R.C. Snead

SECTION A: GENERAL

This survey area extends from Reference Point 84 at Poles (or Powells) Bluff to Reference Point 85 at Nassawadox Point, including the Chesapeake Bay shoreline between these two points, Occohannock Creek and its tributaries of Tawes Creek, Scarbourough Gut, Shields Cove (Shields Creek), Taylor Branch, Wescott Cove, Fisher Cove, Mt. Airy Cove, Johnson Cove, and Killmon Cove.

Elevations in the area consistently rise from 5'-10' very near the shoreline to heights of 30'-40' in the outer reaches of the watershed. There is very little marshland. The economy of the area is based primarily upon agriculture, seasonal recreational activities, and commerce. The population is relatively sparse, except for moderate concentrations in Belle Haven, Exmore, and Silver Beach.

Meteorological data indicated that the area received a total rainfall of 48.05" for the survey period, with tropical storms Florence, and Michael making rainfall impacts in the early fall of 2018. A monthly breakdown is as follows:

May 18-31, 2018	2.87"	August	3.84"	November	4.83"
June	5.53"	September	15.53"	December	3.63"
July	6.42"	October	2.66"	January 1-23,2019	2.74"

At the beginning of the survey, inspectors reviewed the available literature from prior reports, public works and online resources to characterize land use, drainage patterns, and established nearshore seawater stations. Properties identified in the previous survey as having sanitary deficiencies or other environmental significance were revisited to evaluate their current status. All roadways and navigable shoreline within the survey boundary were visually inspected to identify potential pollution sources requiring further investigation.

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 pollution sources. Station data were analyzed to compare relative concentrations of fecal indicator bacteria within the waterway to identify potential onshore sources of contamination. Areas with elevated concentrations of fecal indicator bacteria were surveyed onshore using a property-by-property approach. Surveyors interviewed occupants and examined properties for



evidence of pollution sources within the immediate watershed. Certain stations at the head of Occohannock Creek were sampled a 3rd time on 12/11/2018 for additional data. Stations T27.5 and T32.5 were added for additional data between station locations. Hydrographic data and Ebb current windows are shown in the table below. Maps of the enterococcus sampling are shown at the conclusion of this report.

Rainfall and Tide Data for Sampling Dates

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Sample Date	Run#	High Tide	Low Tide	Previous	Previous	Previous
				24 Hours	48 Hours	72 Hours
5/31/2018	1	12:54 PM	7:20 PM	0.00	0.00	0.36
8/8/2018	1	8:22 AM	3:03 AM	0.00	0.00	0.02
8/24/2018	1	10:22 AM	4:51 PM	0.00	0.02	0.26
9/6/2018	2	8:11 AM	2:52 PM	0.00	0.00	0.33
11/6/2018	2	9:35 AM	4:24 PM	0.04	0.25	0.25
11/9/2018	2	11:39 AM	6:39 PM	0.86	0.86	0.86
12/11/2018	3	1:11 PM	8:13 PM	0.04	0.42	1.11

Copies of Bacteriological and Shellfish Closure data are available at the area office for review. This report lists only those properties that have a sanitary deficiency or other environmental significance. "*DIRECT*" indicates that the significant activity or deficiency has a direct impact on shellfish waters. D ata in this report are also made available to local health departments and other agencies to address items that may be out of compliance with their regulatory programs. Copies of VPDES Permits and inspections are available at the Department of Environmental Quality, Tidewater Regional Office (DEQ/TRO).

Copies of the current condemnation notices and maps are available via the Internet at www.vdh.virginia.gov/shellfish.

SECTION B: SEWAGE POLLUTION SOURCES

	GA#	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Address	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	DSS Staff	Date of Correction	Correction Notes
814	84	R7	11/1/18	SEWAGE TREATMENT FACILITY, indirect	37.5454	-75.8312	11306 Cemetery Road, Belle Haven, VA 23306	Exmore "New Roads" community subsurface drainfield, with no direct drainage to any body of water.	NA	Business	N	Town sewer facility in fenced in area with cinderblock building.	Northampton	RS		
806	84	R23	10/31/18	CONTRIBUTES POLLUTION, indirect	37.4872	-75.9607	7006 Whittington Road, Exmore, VA 23350	Old septic tank with unapproved wooden lid with pipes leaving underneath of house towards tank.	Conv	Dwelling	N	White Aluminum sided 1 story cottage.	Northampton	RS		
324	84	R5	10/30/18	CONTRIBUTES POLLUTION (kitchen or laundry wastes), direct	37.5572	-75.8395	14165 Shields Bridge Road, Belle Haven, VA 23306	2 inch pvc pipe exiting house, attached to blue soft pipe running to drainage ditch, which drains to Occohannock creek.	Conv	Dwelling	N	Beige cinder block house with white trim and red shutters.	Accomack	RS		
797	84	R22	10/31/18	CONTRIBUTES POLLUTION (kitchen or laundry wastes), indirect	37.5238	-75.9472	4165 Battlepoint Road, Exmore, VA 23350	1" pipe from under back porch running out into yard. No visible discharge.	Conv	Dwelling	N	Yellow one story house with back porch.	Northampton	RS		
774	84	R8	10/30/18	NO FACILITIES, indirect	37.5349	-75.8376	11203 Occohannock Neck Road, Exmore, VA 23350	No septic system available. Privy in use.	Privy	Dwelling	N	1 story cinder block house,pale yellow(fha/hud house).	Northampton	RS		
775	84	R9	10/30/18	NO FACILITIES, indirect	37.5349	-75.8379	11197 Occohannock Neck Road, Exmore, VA 23350	No septic system available. Privy in use	Privy	Dwelling	N	1 story block hud/fha house.	Northampton	RS		
776	84	R10	10/30/18	NO FACILITIES, indirect	37.5348	-75.8381	11191 Occohannock Neck Road, Exmore, VA 23350	No septic system available. Privy in use.	Privy	Dwelling	N	1 story cinder block building,unpainted. FHA/HUD house.	Northampton	RS		
777	84	R11	10/30/18	NO FACILITIES, indirect	37.5348	-75.8383	11193? Occohannock Neck Road, Exmore, VA 23350	No septic system available. Privy in use.	Privy	Dwelling	N	1 story cinder block house. FHA/HUD house.	Northampton	RS		
778	84	R12	10/30/18	NO FACILITIES, indirect	37.5348	-75.8386	11177 Occohannock Neck Road, Exmore, VA 23350	No septic system available. Privy in use.	Privy	Dwelling	N	1 story white wood frame house. FHA/hud house.	Northampton	RS		
779	84	R13	10/30/18	NO FACILITIES, indirect	37.5349	-75.8387	11173 Occohannock Neck Road, Exmore, VA 23350	One story white Cinderblock dwelling with no septic system.	Privy	Dwelling	N	One story white Cinderblock dwelling with no septic system.	Northampton	RS		
780	84	R14	10/30/18	NO FACILITIES, indirect	37.5349	-75.8389	11167 Occohannock Neck Road, Exmore, VA 23350	One story beige Cinderblock dwelling with no septic system.	Privy	Dwelling	N	One story beige Cinderblock dwelling with no septic system.	Northampton	RS		
781	84	R15	10/30/18	NO FACILITIES, indirect	37.5349	-75.8390	11163 Occohannock Neck Road, Exmore, VA 23350	No septic system, privy in use.	Privy	Dwelling	N	One story light blue Cinderblock dwelling with no septic system.	Northampton	RS		
782	84	R16	10/30/18	NO FACILITIES, indirect	37.5348	-75.8393	11157 Occohannock Neck Road, Exmore, VA 23350	No septic system at residence. Privy being used for sewage waste.	Privy	Dwelling	N	Small Cinderblock dwelling FHA/HUD, no septic system.	Northampton	RS		
771	84	R24	10/30/18	POTENTIAL POLLUTION	37.5443	-75.8227	2314 Belle Haven Rd, Belle Haven, VA 23350	3" pipe of unknown origin.	Conv	Dwelling	N	3" pipe of unknown origin.	Northampton	RS		

SECTION C: NONSEWAGE WASTE SITES

	GA#	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Address	Pollutant Remarks	Septic System Type	Structure	Contact	Overall Site Remarks	Locality	DSS Staff
785	84	R18		SOLID WASTE DUMPSITE, indirect	37.5341	-75.8818	8427 Occohannock Neck Road Exmore	Ward town public municipal waste convenience center. Small office building has composting commode.	Privy	Public		Ward town public waste convenience center. Has 6 dumpsters, plus recycling, battery disposal, and oil waste disposal.	Northampton	RS

SECTION D: BOATING ACTIVITY

	GA#	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Address	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	Boating Activity Type	Number of Wet Slips	NUM BOATS <26'		Evidence of Live- Aboards	DSS Staff
307	84	R1	5/18/18	BOATING ACTIVITY	37.5526	-75.8778	11149X Davis Wharf	23 slips with diesel fuel and gasoline available. Includes electric hook up,fresh water, and pump out station.	Privy	Marine	Y	23 slip marina with boat lift services. Paint center with privy. Electric hook up, fresh water, and pump out services.	Northampton	Marina	23	2	11	N	RS
4550	84	R17	5/22/18	BOATING ACTIVITY	37.5500		2101 Morley's Wharf Road, Exmore, VA 23350	2 floating docks, a 100 foot "L" shaped fishing pier, 2 privies, a dumpster, and freshwater spigot.	Privy	Marine	N	2 Floating docks. 100 foot "L" shaped fishing pier. Two privies, a dumpster, and a freshwater spigot.	Northampton	Under Surveillance	3	2	0	N	RS

SECTION E: CONTRIBUTES ANIMAL POLLUTION

	GA#	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Address	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	DSS Staff
308	84	R2	10/31/18	CONTRIBUTES ANIMAL POLLUTION, indirect	37.5662		IRoad, Belle Haven, VA	5 active chicken houses. Chickens confined to inside of houses.	NA	Agri	N	5 active chicken houses. All chickens are confined to houses.	Accomack	RS
310	84	R3	10/31/18	CONTRIBUTES ANIMAL POLLUTION, indirect	37.5749		13528 Indian Trail Road, Painter, VA 23420	2 horses in pen.	Conv	Dwelling	N	2 story cedar shake house.	Accomack	RS
323	84	R4	10/30/18	CONTRIBUTES ANIMAL POLLUTION, direct	37.5579	-75.8385	IRd. Belle Haven, VA	One pony in pen bordering creek shore.	Conv	Dwelling	N	2.5 story gray vinyl with white trim, black shutters, with outbuildings.	Accomack	RS
791	84	R20	10/31/18	CONTRIBUTES ANIMAL POLLUTION, indirect	37.5416	-75.9061	7182 Batcheler Branch Road, Exmore, VA 23350	8 chickens and 4 horses.	NA	Dwelling	N	2 story cream vinyl with brown shutters, stable, chicken house.	Northampton	TC
4551	84	R21	5/24/18	CONTRIBUTES ANIMAL POLLUTION, indirect	37.5160	-75.9290	6067 Occohannock Neck Road, Exmore, VA 23350	20 cows	NA	Dwelling	N	Tan trailer with front deck.	Northampton	RS

SUMMARY

Growing Area # 084 Occohannock Creek 24 January 2019

SECTION B: SEWAGE POLLUTION SOURCES

- 1. SEWAGE TREATMENT FACILITIES
 - 0 DIRECT None.
 - 1 INDIRECT # R7
 - 1 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
 - 1- CONTRIBUTES POLLUTION, INDIRECT # R23
 - 1 CP (Kitchen or Laundry Wastes), DIRECT # R5
 - 4 CP (Kitchen or Laundry Wastes), INDIRECT # R2, R3, R20, R21
 - 0 NO FACILITIES, DIRECT None.
 - 9 NO FACILITIES, INDIRECT # R8, R9, R10, R11, R12, R13, R14, R15, R16
 - 15 B.2. TOTAL
- **3. POTENTIAL POLLUTION** Periodic surveillance of these properties will be maintained to determine any status change.
 - 1 POTENTIAL POLLUTION # R24

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.
 - 1 INDIRECT # R18
 - 1 C.2. TOTAL

SECTION D: BOATING ACTIVITY

- 1 MARINAS # R1
- 0 OTHER PLACES WHERE BOATS ARE MOORED None.
- 1 UNDER SURVEILLANCE # R17
- 2 D. TOTAL

SECTION E: CONTRIBUTES ANIMAL POLLUTION

- 1 DIRECT # R4
- 4 INDIRECT # R2, R3, R20, R21
- 5 E. TOTAL

