



COMMONWEALTH of VIRGINIA

Department of Health
DIVISION OF SHELLFISH SANITATION
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COCKRELL CREEK Growing Area # 012 Northumberland County Shoreline Sanitary Survey

Date: 20 March 2012
Survey Period: January 18 – February 17, 2012
Total Number of Properties Surveyed: 288
Surveyed By: D.R. Beuchelt

Section A: GENERAL

This survey area extends from Reference Point 12 at Fleet Point to Reference 13 at Cockrell Point, including all of Cockrell Creek and its tributaries.

The topography of the area varies in elevation from 5' around the shoreline of Cockrell Creek to a maximum of 20' along the northwest boundary of the headwaters. The population density throughout the area is mostly sparse with a moderate concentration around the Town of Reedville. The economy is based on local commerce, seafood and agriculture. Omega Protein, Inc. is the major employer of the area. According to the U.S. Census, Northumberland recorded a 2010 population of 12,330 – a 0.6% growth over the past the years.

Since the last survey the area has experienced severe weather from hurricanes and tropical storms, the most recent being hurricane Irene which hit the area in August 2011 and was then followed by Tropical Storm Lee a few weeks later in September. The area experienced power outages, heavy rains and major flooding during these storms.

Meteorological data indicated that 3.09" of rain fell during the survey period. A monthly breakdown is as follows:

January 18-31, 2012	1.18"	February 1-17	1.91"
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The Commonwealth of Virginia, under Code Section 9VAC 10-20-120.7, specifies that on-site sewage treatment systems not requiring a Virginia Pollutant Discharge Elimination System (VPDES) permit shall:

- a. *Have pump-out accomplished for all systems at least once every five years.*
 - (1) *If deemed appropriate by local health department and subject to conditions the local health department may set, local governments may offer to the owners of such system, as an alternative to the mandatory pump-out, the option of having a plastic filter installed and maintained in the outflow pipe from the septic tank to filter solid material from the effluent while sustaining adequate flow to the drainfield to permit normal use of the septic system. Such a filter should satisfy standards established in the Sewage Handling and Disposal regulations (12VAC5-610) administered by the Virginia Department of Health.*

(2) Furthermore, in lieu of requiring proof of septic tank pump-out every five years, local governments may allow owners of on-site sewage treatment systems to submit documentation every five years, certified by a sewage handler permitted by the Virginia Department of Health, that the septic system has been inspected, is functioning properly, and the tank does not need to have the effluent pumped out of it.

Information can be found by contacting county officials via the website at:
www.co.northumberland.va.us.

Found during the survey was 1 STF facility, 10 on-site deficiencies, 9 properties marked as potential deficiencies, 4 industrial sites (1 including an Industrial WWTP), no solid waste sites, 16 boating activity sites and 2 sites marked as animal pollution.

Copies for Bacteriological, Hydrographic and Shellfish Closure data are available at the White Stone office for review. Copies of the current condemnation notices and maps are available via the internet at www.vdh.virginia.gov/shellfish.

The report lists only those properties that have a sanitary deficiency or may have other environmental significance. **DIRECT** indicates that the significant activity or deficiency may have 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 Sanitation and are available for reference until superseded by a subsequent survey 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.

SECTION B: SEWAGE POLLUTION SOURCES

SEWAGE TREATMENT FACILITIES

8. **DIRECT** – Reedville WWTP, 152 Menhaden Drive, Reedville, 22539. c/o Kenneth Eades, Northumberland County Administrator, PO Box 129, Heathsville, 22473. Public Sewage Facility. Design Flow of 0.2 MGD. Treatment consists of seven pumping stations, a bar screen, grit channel, comminutor, two activated sludge aeration units, two clarifiers, aerobic digester, six drying beds, a polishing pond, chlorination and dechlorination tanks, and a 90 deg. V-notch weir with an ultrasonic sensor. Two wet wells with submersible pumps pump the effluent flow to submerged diffusers in Cockrell's Creek. Dried sludge is transported to the West Point landfill by the Northern Neck Refuse Service. A copy of the most recent DEQ report is filed with the field report. VPDES permit # VA0060712 and Registration # VAN020101.

ON-SITE DEFICIENCIES

10. CONTRIBUTES POLLUTION – Location: 1178 Fleeton Road, Reedville 22539. Dwelling – 1 story, brick with white trim. No Contact. Water pooling on an area in the back yard appears to be septic related. Sanitary Notice issued on 2/22/12 to Field # 38. Tax Map # 38-(1)-300-.
17. **DIRECT** - CONTRIBUTES POLLUTION – Location: 271 Liberty Road, Reedville 22539. Dwelling – mobile home, gray with black shutters and metal awnings. 1 person. Water is pooling on yard where grass is tall and dark and draining into the ditch. Sanitary Notice issued on 1/26/12 to Field # 76. Tax Map # 38-(1)-28-.

18. CONTRIBUTES POLLUTION – Location: 317 Liberty Road, Reedville 22539. Dwelling – mobile home, variegated brown with metal skirting. No Contact. Lid is ajar exposing septic tank. Sanitary Notice issued on 1/26/12 to Field # 77. Tax Map # 38-(1)-28-A. Issue was corrected before survey was published.
19. **DIRECT** - CONTRIBUTES POLLUTION (Kitchen or Laundry Wastes) – Location: 20123 Northumberland Highway, Reedville 22539. Dwelling – double-wide mobile home, white with black shutters and gray roof on cinderblock foundation. No Contact. Appears wastes have discharged from the house onto the ground via a metal pipe which empties to a ditch and eventually drains into the headwater of Cockrell's Creek. Sanitary Notice issued on 1/26/12 to Field # 79. Tax Map # 38-(1)-108-C.
20. CONTRIBUTES POLLUTION – Location: 18754 Northumberland Highway, Reedville 22539. Motel, 1 story, beige. Contact with Manager. Septic tank lid is cracked with a piece missing. Sanitary Notice issued on 1/30/12 to Field # 104. Tax Map # 38-(1)-009-E. Issue was corrected before survey was published.
23. **DIRECT** - CONTRIBUTES POLLUTION (Kitchen or Laundry Wastes) – Location: 243 Old Fairport Road, Reedville 22539. Dwelling – 1 ½ stories, light green asbestos shingles with light gray roof. No Contact. Metal pipe is discharging directly to free flowing stream that drains to Cockrell's Creek. Sanitary Notice issued on 1/31/12 to Field # 135. Tax Map # 37-(1)-160. Issue was corrected before survey was published.
27. NO FACILITIES – Location: 1699 Fairport Road, Reedville 22539. Dwelling – 1 ½ stories, white and yellow cinderblock with RV – cream with brown stripes on-stie. No Contact. House appears abandoned. There appears to be activity at the RV. Sanitary Notice issued on 2/8/12 to Field # 204. Tax Map # 38-(1)-52.
32. **DIRECT** - CONTRIBUTES POLLUTION (Kitchen or Laundry Wastes) – Location: 201 Polly Cove Lane, Reedville 22539. Dwelling – 1 story, white with black shutters and black shingles with a garage under the house. 3 persons. A hose exits the house and discharges wastes onto the ground surface. The discharge drains to a ditch, which slopes to Cockrells Creek. Sanitary Notice issued on 2/10/12 to Field # 247. Tax Map # 45-A(1)-107.
34. CONTRIBUTES POLLUTION (Kitchen or Laundry Wastes) – Location: 60 Polly Cove Lane, Reedville 22539. Dwelling – 2 stories, white with green shutters and metal roof. No Contact. Area over septic system is flooded, including an area where laundry wastes were found on ground surface in previous survey. Sanitary Notice issued on 2/13/12 to Field # 256. Tax Map # 45-A(1)-93.
39. CONTRIBUTES POLLUTION – Location: 2943 Fairport Road, Reedville 22539. Dwelling – 1 story, light green with variegated green shingles and green shutters. 3 persons. Effluent is pooling on area in yard. Sanitary Notice issued on 2/14/12 to Field # 280. Tax Map # 45-A(1)-46.

POTENTIAL POLLUTION

22. Location: 141 Fairport Road, Reedville 22539. Old store – 2 stories, white with addition. Light blue hose exits building. Remnants of 1" white PVC on ground. No discharge at time of survey. Origins unknown.

24. Location: 196 Summer Haven Drive, Reedville 22539. Dwelling – 1 ½ stories, olive with variegated colored shingles and white trim. No Contact. A white PVC pipe exits foundation and runs along ground surface. No discharge at time of survey. Origin unknown.
26. Location: 404 Buzzard's Point Road, Reedville 22539. Dwelling – 1 story, wood siding with gray shingles. 3 persons. Owner states toilets flush slowly in wet weather and claims that storm water pools in the area. No problems detected at time of survey.
28. Location: Molly Lane, Reedville 22539. 911 address unknown. Dwelling – two RV units, permanently hooked into septic system. No Contact. Located behind the shed is a broken piece of 2 – 2 ½" white PVC pipe with a clean-out cap. The area beside the pipe is covered with a white, 5-gal. bucket. No discharge at time of survey.
29. Location: End of Molly Lane, Reedville 22539. 911 address unknown. Dwelling – 2 ½ stories, white with green metal roof. No Contact. A green garden hose exits the north side of the house. No discharge at time of survey. Origin unknown.
30. Location: 175 Polly Cove Lane, Reedville 22539. Dwelling – 1 story, beige with tan shingles and white trim. No Contact. Area over septic system is soft. Storm water is standing. No problems detected at time of survey. House is vacant and under renovation.
31. Location: 195 Polly Cove Lane, Reedville 22539. Dwelling – mobile home, variegated gray. 2 persons. Occupant states the toilets flush slowly in heavy precipitation. No problems detected at time of survey.
35. Location: 27 Boatyard Road, Reedville 22539. Dwelling – 1 story, gray with gray shingles and black shutters. 3 persons. Occupant states the toilets flush slowly in heavy precipitation. No problems detected at time of survey.
37. Location: 2437 Fairport Road, Reedville 22539. Dwelling – 2 stories, yellow with green shutters and green metal roof. 1 person. Owner states he has problems in heavy precipitation. He stated that during Hurricane Irene the tank filled quickly. He is considering installing a larger tank. No problems detected at time of survey.

SECTION C: NON-SEWAGE WASTE SITES

INDUSTRIAL WASTES

6. Location: 239 Menhaden Road, Reedville 22539. Omega Protein Inc. Airstrip for the fish processing plant and refinery. Observed on-site was a 10,000 gallon aviation fuel tank surrounded by a concrete berm. No evidence of leakage at time of inspection. This facility is on the Reedville STF system.
7. **DIRECT** – Location: 610 Menhaden Road, PO Box 175, Reedville 22539. Omega Protein Inc. Fish Processing plant and refinery. Processing wastewater is treated in ammonia stripper with final effluent discharging to Cockrell's Creek. The two lagoons, DAF (dissolved air floatation) unit and disinfection (UV) units noted in the previous survey are not currently being utilized in the normal treatment process, however, they will be retained for use during emergency situations. During these situations accumulated wastewater stored in the lagoons would flow to the DAF unit, then to the

ammonia strippers and finally to the UV unit for disinfection with final effluent discharge to Cockrell's Creek. Sludge from the lagoons is routinely removed and applied to local farm land. Should the facility choose to utilize the lagoons in the future for normal (non-emergency) operations a permit modification would be necessary. Facility has VPDES Permit # VA0003867 from DEQ. VAN Permit # VAN020037. All domestic wastewater at this facility flows to the Reedville Wastewater Treatment Plant.

Found on-site were approximately 50 above ground bermed storage tanks for fish oil and fish meal, protected by spill containment dikes. Four above ground fuel oil and diesel tanks (arranging from 150,000 – 500,000 gallons in size) are also protected by containment areas. No evidence of leakage at time of inspection.

14. **DIRECT** – Location: 900 Main Street, Reedville 22539. Reedville Menhaden, Inc. Fish packing facility. No Contact. Washdown wastes discharge to Cockrell Creek. VPDES Permit # VAG524005. This facility is on the Reedville STF system.
16. **DIRECT** – Location: 225 Roseland Road. Reedville 22539. Menhaden processing facility. 6 employees (in season). Observed on-site was a bermed 2000 gallon diesel fuel tank (\leq 30ft. from Cockrell's Creek), a 275 gallon gasoline tank, (\leq 30ft. from Cockrell's Creek), and a 500 gallon used oil tank, (\leq 200ft. from Cockrell's Creek), both tanks without berms. Washdown wastes discharge to Cockrell Creek. VPDES Permit # VAG524006.

SOLID WASTE SITES

-None-

SECTION D: BOATING ACTIVITY

MARINAS

13. Reedville Marina, 902 Main Street, Reedville 22539. Commercial marina and restaurant. No Contact. Available on-site are 16 seasonal slips/moorings, fuel (1x1500 Diesel and 1x1500 gasoline tanks with a 2 ft. concrete block berm), electricity, water, solid waste containers, restaurant and restrooms. This marina is on the Reedville STF system.
25. Buzzard Point Dry Storage and Marina, 468 Buzzard Point Road, Reedville 22539. Commercial marina. 6 employees. Available on-site are 50 seasonal slips/moorings, 140 dry storage spaces, fuel, electricity, water, solid waste containers, restrooms, dump station and sewage holding tank pumpout facilities.
33. Fairport Marina, 252 Polly Cove Road, Reedville 22539. Commercial marina. 4 employees. Available on-site are 48 seasonal slips/moorings, 3 transient slips/moorings, fuel, electricity, water, solid waste containers, restaurant, restrooms, dump station and sewage holding tank pumpout facilities.
36. Jennings Boat Yard, 169 Boat Yard Road, Reedville 22539. 3 employees. Available on-site are 48 seasonal slips/moorings, 186 dry storage spaces, electricity, water, boat repair, solid waste containers, restrooms, and dump station. At the time of the survey, the sewage holding tank pumpout apparatus was off the dock (result of recent storms) and will be replaced in spring of 2012.

OTHER PLACES WHERE BOATS ARE MOORED

7. Location: 610 Menhaden Road, PO Box 175, Reedville 22539. Omega Protein Inc. Fish processing plant and refinery. Available on-site are 10 moorings along the piers, fuel, solid waste containers and restrooms. Fish boats have Type 2 – Microphore Marine Sanitation devices. This facility is on the Reedville STF system.
11. Location: 940 Fleeton Road, Reedville 22539. Waterman’s Cove. Available on-site are 18 moorings, electricity, and restrooms. This facility is on the Reedville STF system.
38. Location: End of McNeal Road, Reedville 22539. Omega Protein Inc. Available on-site are 7 moorings and electricity. Fish boats have Type 2 – Microphore Marine Sanitation devices.

UNDER SURVEILLANCE

1. Location: 322 Fleeton Circle, Reedville 22539. Available on-site are 9 slips/moorings and electric. This house is on the Reedville STF system.
2. Location: 176 Fleeton Wharf Road, Reedville 22539. Available on-site are 12 slips/moorings.
3. Location: 2898 Fleeton Road, Reedville 22539. Available on-site are 4 slips/moorings. Restrooms facilities are available at the house adjacent to the pier. The house is on the Reedville STF system.
4. Location: End of Shell Landing Road, Reedville 22539. Available on-site are 2 in/out ramps.
5. Location: 365 Deepwater Lane, Reedville 22539. Jayne’s Marine, Inc. Boat builder and repair facility. Available on-site is boat repair and a temporary mooring for vessels being overhauled. This facility is on the Reedville STF system.
9. Location: 567 Seaboard Drive, Reedville 22539. Smith Point Seafood. Available on-site are 5 moorings used by boats docking to sell seafood, fuel (1 x 500 gallons gasoline and 1 x 500 gallons diesel, both inside a berm), solid waste containers and restrooms. This facility is on the Reedville STF system.
12. Location: 707 Main Street, Reedville 22539. Reedville Marine Railway. Available on-site is electricity, boat repair and a ramp used for hauling boats. This facility is on the Reedville STF system.
15. Location: 504 Main Street, Reedville 22539. Reedville Fisherman’s Museum. Available on-site are 3 moorings, electricity, solid waste containers and restrooms. This facility is on the Reedville STF system.
16. Location: 225 Roseland Road. Reedville 22539. Menhaden processing facility. 6 employees (in season). Available on-site are 2 seasonal slips/moorings and 4 transient slips, electricity, water and a Port-a-john.

SECTION E: CONTRIBUTES ANIMAL POLLUTION

21. Location: 18438 Northumberland Highway, Burgess 22432. Dwelling – 2 stories, green with black shutters and white trim. 1 person. Found on-site were 14 cows, 1 bull, 7 calves and 5 chickens. Manure is worked into pasture. Property owner holds a “Clean Water Farm Award” from the Virginia Dept. of Conservation and Historic Resources.

40. Location: 2998 Fairport Road, Reedville 22539. Dwelling – 1 story, yellow with terra cotta colored shutters and black shingles. No Contact. Found on-site were 5 horses. Manure is left on ground. Pastures and grounds are well maintained.

SUMMARY

Area # 012
Cockrell Creek
20 March 2012

SECTION B: SEWAGE POLLUTION SOURCES

1. SEWAGE TREATMENT FACILITIES

- 1 – DIRECT – # 8
- 0 – INDIRECT – None
- 1 – B.1. TOTAL

2. ON-SITE SEWAGE DEFICIENCIES – Correction of deficiencies in this section is the responsibility of the local health department.

- 1 – CONTRIBUTES POLLUTION, DIRECT – # 17
- 4 – CONTRIBUTES POLLUTION, INDIRECT – # 10, 18, 20, 39
- 3 – CP – (Kitchen or Laundry Wastes), DIRECT – # 19, 23, 32
- 1 – CP – (Kitchen or Laundry Wastes), INDIRECT – # 34
- 0 – NO FACILITIES, DIRECT – None
- 1 – NO FACILITIES, INDIRECT – # 27
- 10 – B.2. TOTAL

3. POTENTIAL POLLUTION – Periodic surveillance of these properties will be maintained to determine any status change.

- 9- POTENTIAL POLLUTION – # 22, 24, 26, 28, 29, 30, 31, 35, 37

SECTION C: NON-SEWAGE WASTE SITES

1. INDUSTRIAL WASTE SITES

- 3 – DIRECT – # 7, 14, 16
- 1 – INDIRECT – # 6
- 4 – C.1. TOTAL

2. SOLID WASTE SITES

- 0 – DIRECT – None
- 0 – INDIRECT – None
- 0 – C.2. TOTAL

SECTION D: BOATING ACTIVITY

- 4 – MARINA – # 13, 25, 33, 36
- 3 – OTHER PLACES WHERE BOATS ARE MOORED - # 7, 11, 38
- 9 – UNDER SURVEILLANCE - # 1, 2, 3, 4, 5, 9, 12, 15, 16,
- 16 – D. TOTAL

SECTION E: CONTRIBUTES ANIMAL POLLUTION

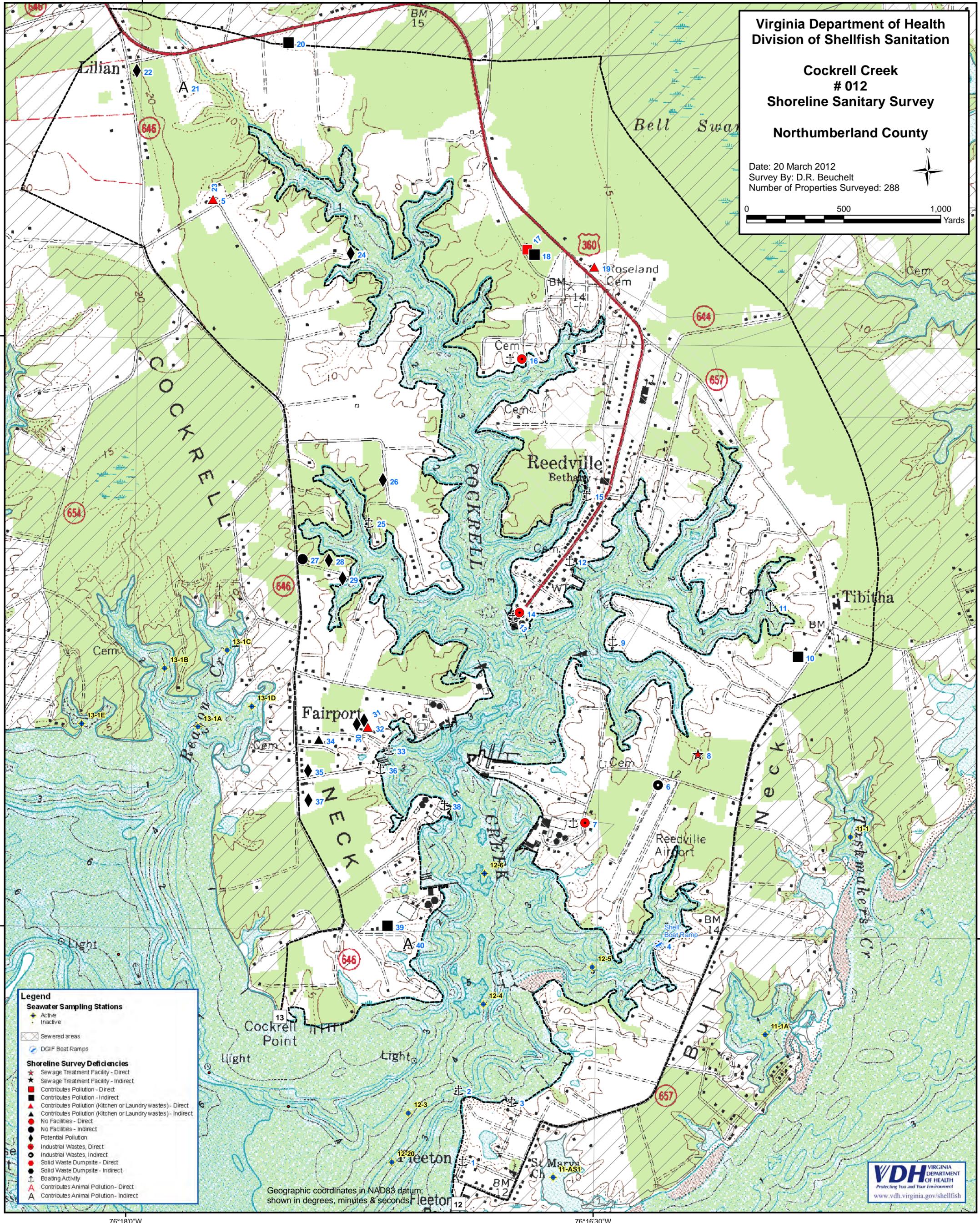
- 0 – DIRECT – None
- 2 – INDIRECT – # 21, 40
- 2 – E. TOTAL

**Virginia Department of Health
Division of Shellfish Sanitation**

**Cockrell Creek
012
Shoreline Sanitary Survey**

Northumberland County

Date: 20 March 2012
Survey By: D.R. Beuchelt
Number of Properties Surveyed: 288



- Legend**
- Seawater Sampling Stations**
- ◆ Active
 - ◇ Inactive
- ▨ Sewered areas
- ⚓ DGIF Boat Ramps
- 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
 - ⚓ Boating Activity
 - ▲ Contributes Animal Pollution - Direct
 - A Contributes Animal Pollution - Indirect

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

