



**COMMONWEALTH of VIRGINIA**  
**DEPARTMENT OF HEALTH**  
**DIVISION OF SHELLFISH SANITATION**

Marissa J. Levine, MD, MPH, FAAFP  
 State Health Commissioner

109 Governor Street, 6<sup>th</sup> Floor  
 P.O. Box 2448  
 Richmond, Virginia 23218

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

**BROAD AND JACKSON CREEKS**  
**GROWING AREA # 033**  
**MIDDLESEX COUNTY**  
**SHORELINE SANITARY SURVEY**

**Date:** 13 August 2014  
**Survey Period:** April 22, 2014 – July 11, 2014  
**Total Number of Properties Surveyed:** 876  
**Surveyed By:** D.R. Beuchelt

**Section A: GENERAL**

This survey area begins at Reference Point 34 at Chessie Lane off of Route 677 (Honeysuckle Lane) and ends at Reference Point 35 at Stove Point Neck and includes all properties on the shoreline of Broad and Jackson Creeks and their tributaries located on the Rappahannock and Piankatank Rivers within a boundary line set by the Division of Shellfish Sanitation (DSS).

The topography of the area surveyed begins at the shoreline and increases to 20 feet near the western edge of the survey. There are several subdivisions located within the survey area. The population of Deltaville has between 500-800 full time residents and can increase to several thousand during the summer months as it is a well-known vacation spot for summertime activities. According to the 2010 US Census, Middlesex County showed a 10.3% population increase with a count of 10,959. The economy in the county is based mainly on government administration, retail trade, accommodation and food services, health care and construction. Deltaville, a popular recreational area with boating, sailing and fishing as the main activities, is located between the Rappahannock and Piankatank Rivers, and is on the "Atlantic Flyway" accommodating a variety of migrating birds.

Since the last survey the area has experienced severe weather from hurricanes, tropical storms and a tornado. In September 2010 heavy rainfall fell during Tropical Storm Nicole. In April 2011 a tornado ripped through Deltaville causing severe destruction. Along the shoreline boats were overturned and debris from damaged buildings was scattered as far away as Reedville. Hurricane Irene hit the state in August of 2011 and Hurricane Sandy skirted by in October of 2012.

Meteorological data indicated that 10.74" of rain fell during this survey period. A monthly breakdown is as follows:

April 22-30	2.26"	May	3.57"	June	3.35"	July 1-11	1.56"
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*The Commonwealth of Virginia, under Code Section 9VAC 10-20-120.7, specifies that onsite 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.middlesex.va.us](http://www.co.middlesex.va.us).

Found during the survey were 1 sewage treatment facility (NOTE: three facilities hold permits to upgrade their septic systems to a Sewage Treatment Facility), 10 on-site deficiencies, 10 properties marked as potential deficiencies, 1 industrial site, 1 solid waste site, 28 boating activity sites and 0 sites marked as animal pollution.

Copies of Bacteriological, Hydrographic and Shellfish Closure data are available at the White Stone office for review. Copies of current condemnation notices, maps and a spreadsheet showing corrected deficiencies are available via the internet at [www.vdh.virginia.gov/shellfish/](http://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**

3. **DIRECT** – Bay Marine LTD Sewage Treatment Plant, 1134 Timberneck Road, Deltaville 23043. Contact: Barry Miller, owner. Municipal sewage treatment facility. Design flow of 0.0007 MGD. Treatment consists of an aerated 6,500 gallon underground holding tank preceding the package plant, aeration basin, clarifier, sludge holding tank, chlorination (calcium hypochlorite tablets), dechlorination (sodium sulfite tablets) and a 1000 gallon treated effluent holding tank. (The plant discharges intermittently from the 1000 gallon treated effluent holding tank to Broad Creek.) Sludge is pumped and hauled for disposal by a licensed private contractor as needed. A copy of the most recent DEQ report is filed with the field report. VPDES permit #VA0087173, expires 5/31/2017. Discharge is from outfall serial number 001 in Broad Creek.

## ON-SITE DEFICIENCIES

8. CONTRIBUTES POLLUTION – Location: 397 Horseshoe Bend Road, Deltaville 23043. Dwelling- 1 story, gray with gray shingles and white trim. No contact. Found onsite was effluent pooling onto ground surface. Sanitary notice issued on 5/8/2014 to Field #109. Tax Map 41-14-C-6.
9. CONTRIBUTES POLLUTION – Location: 274 Timberneck Road, Deltaville 23043. Dwelling – vacant land with campsites. No contact. Found onsite was an empty site with an open port on the sewer line. Sanitary notice issued on 5/8/2014 to Field #119. Tax Map 41-32.
10. CONTRIBUTES POLLUTION – Location: 266 Timberneck Road, Deltaville 23043. Dwelling – vacant land with campsites. No contact. Found onsite was an RV (white and orange in color) with an addition built on. The RV had an open port on the sewer line. Sanitary notice issued on 5/8/2014 to Field #120. Tax Map 41-32.
17. CONTRIBUTES POLLUTION – Location: 132 Dockside Drive, Deltaville 23043. Dwelling – 1 story, tan with brown shingles and red shutters. No contact. Effluent is pooling onto ground surface. Sanitary notice issued on 5/14/2014 to Field #179. Tax Map 41-25-A-3.
22. NO FACILITIES – Location: property adjacent to 419 Riverside Drive, Deltaville 23043. Dwelling – RV-Springdale, white with blue, aqua and gray trim. No contact. Found onsite was an uncapped sewer port on the RV without connections to a septic system. Sanitary notice issued on 5/21/2014 to Field #E9. Tax Map 41-52-105.
23. NO FACILITIES – Location: property adjacent to 707 and 715 Riverside Drive, Deltaville 23043. Dwelling – RV-Resort, white with reddish orange trim and two small buildings adjacent to creek shore. No contact. There was no septic system (or treatment works) found onsite. Sanitary notice issued on 5/21/2014 to Field #E19. Tax Map 41-52-72.
27. CONTRIBUTES POLLUTION – Location: 65 Myrtle Avenue, Deltaville 23043. Dwelling – vacant lot (house has been removed). No contact. Found onsite was an open sewer line. Sanitary notice issued on 5/19/2014 to Field #D20. Tax Map 41-41-66/68.
32. **DIRECT** – CONTRIBUTES POLLUTION (Kitchen or Laundry Wastes) – Location: 18200 General Puller Highway, Deltaville 23043. Dwelling – 1 story, white siding with metal roof. 4 persons. Occupant states that kitchen wastes discharge onto the ground surface in an area where it is heavily grown with plants. Unable to trace due to heavy vegetation. The discharge location is adjacent to the water shed and a down slope of  $\leq$  20 feet. Sanitary notice issued on 6/5/2014 to Field #C73. Tax Map 41-27-A.
45. **DIRECT** – CONTRIBUTES POLLUTION – Location: 78 Summerlynn Road, Deltaville 23043. Dwelling – RV-Holiday Rambler, beige with blue and mauve colored stripes. Unit has electric and water hookups and is without a license tag. No contact. Found onsite was an open sewer port with evidence that the unit has discharged onto the ground surface at some point. Watershed is within 15 feet and down slope of the RV unit. Sanitary notice issued on 6/30/2014 to Field #B52. Tax Map 40-238.
49. **DIRECT** – CONTRIBUTES POLLUTION – Location: 1254 Stove Point Road, Deltaville 23043. Dwelling – 1.9 stories, gray with white trim. No contact. Found onsite was a black hose which runs from the house, through the woods and across the lane to the

watershed. Origin of the hose is unknown. Sanitary notice issued on 7/8/2014 to Field #B98. Tax Map 41-32-3A.

### POTENTIAL POLLUTION

13. Location: 18025 General Puller Highway, Deltaville 23043. Dwelling - 1 story, light blue with gray shingles. 3 persons. Occupant states that during heavy precipitation effluent has backed up into the house. No signs of malfunction at time of survey.
19. Location: 18691 General Puller Highway, Deltaville 23043. Contact made with owner. Found onsite were sinks at some of the rented covered boat slips that have a direct discharge pipe to the watershed. One slip had hand soap available for use. Sanitary notice issued on 6/11/2014 to Field #210. Tax Map 41-167. Per the Middlesex County Health Department, the hand soap has been removed and notices have been placed in each sink alerting to the patrons not to use the sinks for hand washing.
24. Location: 366 Riverside Drive, Deltaville 23043. Dwelling - 1 story, yellow with gray shingles. No contact. Found onsite was a garden hose which exits the foundation. No signs of discharge at time of survey.
25. Location: 149 Riverside Drive, Deltaville 23043. Dwelling – 1 story, tan shingled siding with brown shingles. No contact. Found onsite was a small PVC pipe which exits house to ground surface. No sign of discharge at time of survey, however, the soil has been displaced more than an A/C unit discharge would create.
26. Location: 260 Pocahontas Avenue, Deltaville 23043. Dwelling – 1 story, brown with brown shingles. No contact. Property is overgrown with debris scattered onto premises.
29. Location: 673 Tranquility Lane, Deltaville 23043. Dwelling – 2 stories, gray. No contact. Found onsite was a black garden hose running from the house towards a small cove. Unable to trace due to heavy vegetation. No signs of discharge at time of survey.
31. Location: 18210 General Puller Highway, Deltaville 23043. Dwelling – 2 stories, white with green shutters and brown shingles. No contact. Found onsite was a gray hose which exits the house and empties onto the ground surface adjacent to watershed. No signs of discharge at time of survey.
39. Location: 708 Lover's Lane, Deltaville 23043. Dwelling – 1 ½ stories, yellow with variegated colored shingles and white trim. No contact. Found onsite were two pipes of unknown origin that discharge to ditch. No signs of discharge at time of survey.
40. Location: 204 Paradise Lane, Deltaville 23043. Dwelling – 1 story, yellow and red with brown shingles. 4 persons. Occupant states that during heavy precipitation the toilets are slow to flush. Also stated that wastewater at one time backed up into the garage (which has a bathroom and houses the laundry room).
41. Location: 425 Fishing Bay Road, Deltaville 23043. Dwelling – 1 story, brick with brown shingles. Facility houses three apartments and an office. Occupant states that wastewater flows slower from unit during heavy precipitation. Found at the time of the survey was rainwater pooling on the lawn and flooding the ditches from a recent heavy rain.

## **SECTION C: NON-SEWAGE WASTE SITES**

### **INDUSTRIAL WASTE SITES**

11. Location: 17851 and 17853 General Puller Highway, Deltaville 23043. Auto service center and Chris Mart. 2 persons. Found onsite were two 500 gallon used oil tanks (without berm). Used oil is recycled according to EPA requirements.

### **SOLID WASTE SITES**

12. Location: 42 Recycling Drive, Deltaville 23043. Middlesex county refuse collection center for household trash, oil and antifreeze plus recycling of cardboard, metal, glass, plastics and mixed paper.

## **SECTION D: BOATING ACTIVITY**

### **MARINAS**

2. Location: 1224 Timberneck Road, Deltaville 23043. Walden Marina Inc. Commercial marina. Contact made with receptionist. Available onsite are 70 seasonal slips/moorings, 6 transient slips/moorings, 25 dry storage spaces, fuel, electricity, water, repair, solid waste containers, restrooms, dump station and sewage holding tank pump-out.
3. Location: 1168 Timberneck Road, Deltaville 23043. Bay Marina/Bay Ventura. Commercial marina. Available onsite are 65 seasonal slips/moorings, electricity, water, repair, solid waste containers, restaurant, restrooms, dump station and sewage holding tank pump-out. (Per the Middlesex County Health Department, the owner has a boat which houses a pump out machine to pump sewage out of the aqua lodges. The sewage treatment facility onsite is used as the dumping station.) This facility holds an active VA0087173 permit.
4. Location: 97 Marina Drive, Deltaville 23043. Norton's Marina. Commercial marina. Available onsite are 57 seasonal slips/moorings, 80 dry storage spaces, fuel ( 1 x 1000 gallon diesel and 1 x 2000 gallon gasoline, both without berm), electricity, water, repair, solid waste containers, restrooms, and sewage holding tank pump-out.
5. Location: 970 Timberneck Road, Deltaville 23043. Timberneck Marina. Commercial marina. Available onsite are 38 seasonal slips/moorings, electricity, water, solid waste containers, restrooms, dump station (uses clean out port) and sewage holding tank pump-out.
6. Location 926 Timberneck Road, Deltaville 23043. Broad Creek Marina. Commercial marina. Available onsite are 20 seasonal slips/moorings, electricity, water, solid waste containers and restrooms. Exempt from sewage holding tank pump-out.
7. Location: 141 Hamble Lane, Deltaville 23043. Rivertime Marina and Boatyard. Commercial marina. Available onsite are 12 seasonal slips/moorings, approximately 42 dry storage spaces, electricity, water, repair, solid waste containers and restrooms.
14. Location: 170 Greens Cove Road, Deltaville 23043. Chesapeake Cove Marina. Commercial marina. Available onsite are 41 seasonal slips/moorings, fuel, electricity,

- water, repair, solid waste containers, restrooms, dump station and sewage holding tank pump-out.
15. Location: 161 Dockside Drive, Deltaville 23043. J and M Marina. Commercial marina. Available onsite are 49 seasonal slips/moorings, electricity, water, repair, solid waste containers and restrooms .
  16. Location: 160 Dockside Drive, Deltaville 23043. RMC Properties. Commercial marina. Available onsite are 12 seasonal slips/moorings, electricity, water, repair, solid waste containers and restrooms. Exempt from sewage holding tank pump-out.
  18. Location: 18355 General Puller Highway, Deltaville 23043. Deltaville Yachting Center. Commercial marina. Available onsite are 73 seasonal slips/moorings, 190 dry storage spaces (some boatel), fuel (2000 gallon gasoline, double wall tank and 250 gallon used oil tank, both without berm), ramp, electricity, water, repair, solid waste containers, restrooms, dump station and sewage holding tank pump-out.
  19. Location: 18691 General Puller Highway, Deltaville 23043. Norview Marina. Commercial marina. Available onsite are 98 seasonal slips/moorings, 188 dry storage spaces (all boatel), fuel (underground tanks), ramp, electricity, water, repair (at Zimmermans Marine onsite), solid waste containers, restrooms, dump station and sewage holding tank pump-out. This facility holds an active VA0087611 permit although the facility has not been built.
  20. Location: 137 Neptune Lane, Deltaville 23043. Regatta Point Yacht Club. Commercial marina. Available onsite are 80 seasonal slips/moorings, 10 transient slips, electricity, water, solid waste containers, restrooms, dump station and sewage holding tank pump-out. This facility holds active VA0090921 and VA0087629 permits although the facilities have not been built.
  21. Location: 19167 General Puller Highway, Deltaville 23043. Stingray Point Marina. Commercial marina. Available onsite are 232 seasonal slips/moorings, electricity, water, repair, solid waste containers, restrooms and sewage holding tank pump-out.
  34. Location: 499 Jackson Creek Road, Deltaville 23043. Harbour House. Private marina. Available onsite are 21 seasonal slips/moorings, ramp, electricity, water, solid waste containers, restrooms and sewage holding tank pump-out.
  35. Location: 237 Oyster Shell Road, Deltaville 23043. Jackson Creek Harbour Condominium. Private marina. Available onsite are 32 seasonal slips/moorings, electricity, water, solid waste containers and restrooms (at condos). Exempt from sewage holding tank pump-out.
  36. Location: 274 Bucksview Lane, Deltaville 23043. Deltaville Marina. Commercial marina. Available onsite are 70 seasonal slips/moorings, 10 transient slips, fuel (1000 gallon gasoline, 2000 gallon diesel and +/-150 gallon waste oil container), electricity, water, solid waste containers, restrooms and sewage holding tank pump-out.
  43. Location: 249 Kennardstown Road, Deltaville 23043. Powell's Marina. Commercial marina. Available onsite are 42 seasonal slips/moorings, electricity, water, repair, solid waste containers, restrooms, dump station and sewage holding tank pump-out.

44. Location: 78 Summerlynn Road, Deltaville 23043. Fitzgerald Boat Basin. Commercial marina. Available onsite are 20 seasonal slips/moorings, electricity, water, solid waste containers, restrooms, dump station and sewage holding tank pump-out
47. Location: 58 Snug Harbor, Deltaville 23043. Little Snug Harbor. Commercial marina. Available onsite are 23 seasonal slips/moorings, electricity, water, solid waste containers and restrooms.
48. Location: 1525 Fishing Bay Road, Deltaville 23043. Fishing Bay Yacht Club. Private club. Available onsite are 83 seasonal slips/moorings, 2 transient slips (by dock with pump-out), 20 dry storage spaces, electricity, water, solid waste containers, bathhouse and a sewage holding tank pumpout.

#### **OTHER PLACES WHERE BOATS ARE MOORED**

28. Location: 503 Cross Rip Road, Deltaville 23043. Campground marina. Available onsite are 7 seasonal slips/moorings, water, solid waste containers, restrooms and dump station (located at the bathhouse).
30. Location: Adjacent to 647 Tranquility Lane, Deltaville 23043. Mill Creek Harbor Association. Available onsite are 8 seasonal slips/moorings with restroom facilities at residents homes.
33. Location: 287 Jackson Creek Road, Deltaville 23043. Deltaville Maritime Museum. Available onsite are 38 transient slips (20 with electric and water) and restrooms. This site is used exclusively for events sponsored by the museum.
37. Location: 184 Gull Cove Lane, Deltaville 23043. "Miss Nan Charters". Available onsite are 5 slips, electricity, water, solid waste containers, restrooms and dump station.
42. Location: End of Becky's Lane, Deltaville 23043. Available onsite are 7 seasonal slips/moorings, ramp and solid waste containers.
46. Location: 61 Snug Harbor, Deltaville 23043. Available onsite are 15 seasonal slips/moorings, electricity and water. Solid waste containers and restrooms are located at an adjacent boating facility.

#### **UNDER SURVEILLANCE**

1. Location: end of Route 636, Timberneck Road, Deltaville 23043. Middlesex Co. Dock Broad Creek. Available onsite is a public use loading/unloading dock. Restrooms are available at Walden's Marina.
38. Location: end of Route 1101, Lover's Lane Road, Deltaville 23043. Commonwealth of Virginia. Available onsite is a public use loading/unloading dock with 4 transient slips.

#### **SECTION E: CONTRIBUTES ANIMAL POLLUTION**

-None-

## SUMMARY

Growing Area # 033  
Broad and Jackson Creeks  
13 August 2014

### SECTION B: SEWAGE POLLUTION SOURCES

#### 1. SEWAGE TREATMENT FACILITIES

- 1 – DIRECT – # 3
- 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.

- 2 – CONTRIBUTES POLLUTION, DIRECT – # 45, 49
- 5 – CONTRIBUTES POLLUTION, INDIRECT – # 8, 9, 10, 17, 27
- 1 – CP – (Kitchen or Laundry Wastes), DIRECT – # 32
- 0 – CP – (Kitchen or Laundry Wastes), INDIRECT – None
- 0 – NO FACILITIES, DIRECT – None
- 2 – NO FACILITIES, INDIRECT – # 22, 23
- 10 – B.2. TOTAL

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

- 10 – # 13, 19, 24, 25, 26, 29, 31, 39, 40, 41

### SECTION C: NON-SEWAGE WASTE SITES

#### 1. INDUSTRIAL WASTE SITES

- 0 – DIRECT – # None
- 1 – INDIRECT – # 11
- 1 – C.1. TOTAL

#### 2. SOLID WASTE SITES

- 0 – DIRECT – None
- 1 – INDIRECT – # 12
- 1 – C.2. TOTAL

### SECTION D: BOATING ACTIVITY

- 20 – MARINA – # 2, 3, 4, 5, 6, 7, 14, 15, 16, 18, 19, 20, 21, 34, 35, 36, 43, 44, 47, 48
- 6 – OTHER PLACES WHERE BOATS ARE MOORED – # 28, 30, 33, 37, 42, 46
- 2 – UNDER SURVEILLANCE – # 1, 38
- 28 – D. TOTAL

### SECTION E: CONTRIBUTES ANIMAL POLLUTION

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

76°21'0"W 76°20'0"W 76°19'0"W 76°18'0"W

# Virginia Department of Health Division of Shellfish Sanitation

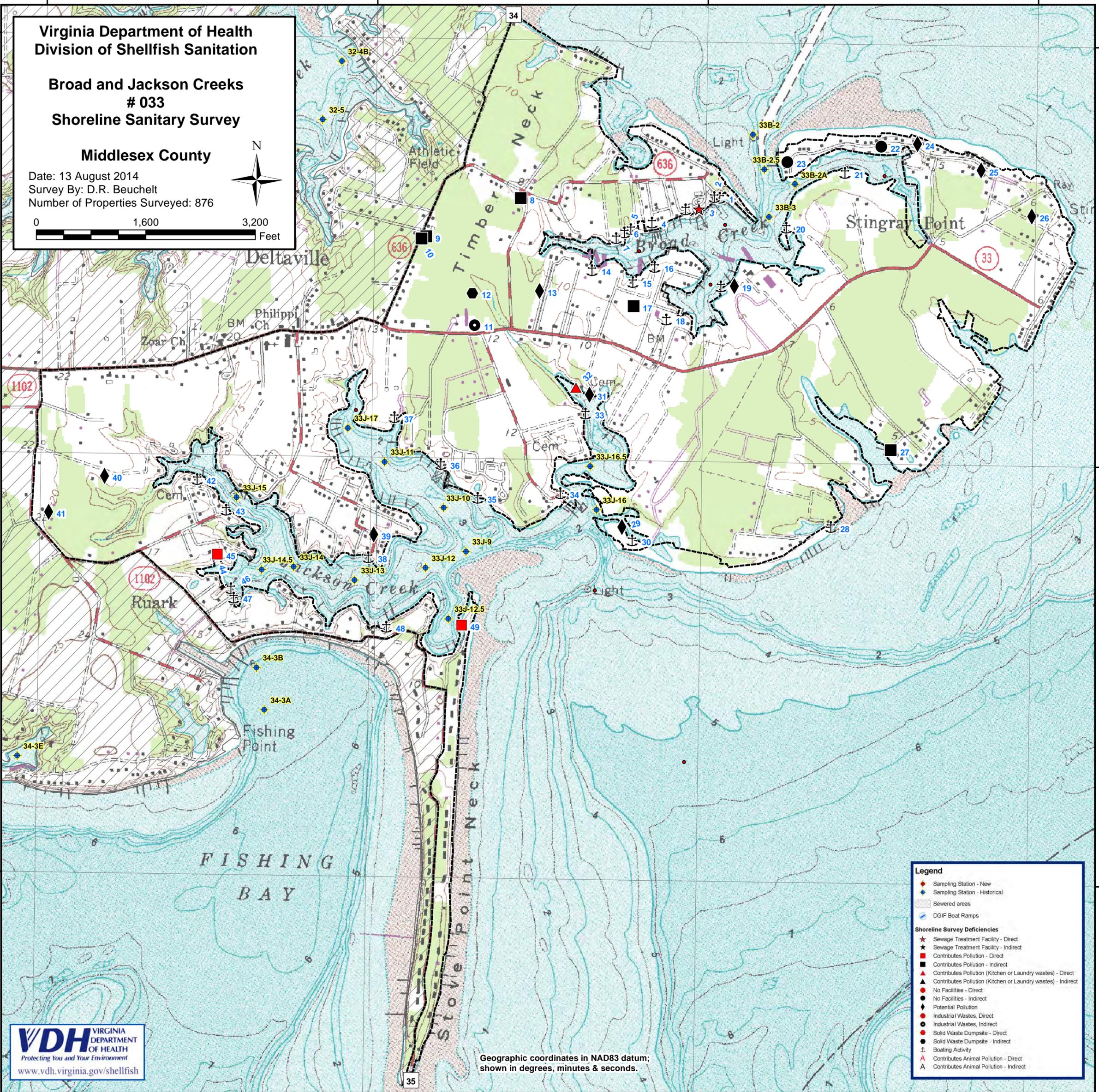
## Broad and Jackson Creeks # 033 Shoreline Sanitary Survey

### Middlesex County

Date: 13 August 2014  
Survey By: D.R. Beuchelt  
Number of Properties Surveyed: 876



0 1,600 3,200  
Feet



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

**Legend**

- ◆ Sampling Station - New
- ◆ Sampling Station - Historical
- ▨ 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
- ▲ Contributes Animal Pollution - Indirect



76°21'0"W 76°20'0"W 76°19'0"W 76°18'0"W