COMMONWEALTH of VIRGINIA
Department of Health
DIVISION OF SHELLFISH SANITATION
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ELIZABETH RIVER: LAFAYETTE RIVER
City of Norfolk
Shoreline Sanitary Survey
Growing Area # 065

Date: 26 May 2011
Survey Period: April 15 – May 6, 2011
Total Number of Properties Surveyed: 7
Surveyed By: J.D. Dickerson

SECTION A: GENERAL

This survey area extends from Reference Point 66A at the end of pier 6 in Lamberts Point Railroad Terminal to Reference Point 67 at Tanner Point, including the Elizabeth River shoreline between these two points, Lafayette River (Wayne Creek, East Haven Creek, Knitting Mill Creek, Edgewater Haven) and all of their tributaries.

Topography of the area is characterized by low and flat elevations ranging from 0-15'. The area has a large population density and all of the homes and businesses are served by the Hampton Roads Sanitation District public sewerage system. Information concerning public sewer in the area was obtained with the assistance of the Norfolk Health Department, Environmental Health Division.

The economy of the survey area is based on local military bases, commerce, industry and Old Dominion University. The watershed is largely residential in nature with a mixture of single family homes and condominium and apartment complexes. The major commercial areas are located along the major roads such as Hampton Boulevard, Granby Street and Tidewater Drive. There is no major industrial activity in the survey area. A portion of the railway system used by Lamberts Point Coal Terminal is within the survey boundary near Reference Point 66A, however all of the piers and coal storage areas are located outside of the area. A portion of the northern shoreline of the survey area near the mouth of the Lafayette River encompasses the outer edge of the Norfolk International Terminals (NIT). NIT is a storage and offloading point for commercial shipping containers. There are no industrial activities occurring at this facility.

Meteorological data indicated that 1.74" of rain fell during the survey period.

The Elizabeth River is dominated by recreational, commercial and military boat activity throughout the year. Boating activity within the Lafayette River is predominately recreational with a light amount of commercial activity from marine construction and maintenance vessels. Private piers are common at almost every waterfront residential property. There are 5 boating

facilities located in the survey area that account for a large number of both seasonal and year round recreational vessels.

The current restriction on shellfish harvesting is Condemned Shellfish Area # 056-007, Hampton Roads, revised 18 May 2009. A copy of the current condemnation notice and associated map is attached to this survey report. 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 http://www.vdh.virginia.gov/shellfish/.

This 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 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.

SECTION B: SEWAGE POLLUTION SOURCES

SEWAGE TREATMENT FACILITIES

1. HRSD - Virginia Initiative Sewage Treatment Plant, 4201 Powhatan Avenue, Norfolk 23508. Owner: Hampton Roads Sanitation District, 1436 Air Rail Avenue, Virginia Beach 23455. Has VPDES permit #VA0081281 from the Department of Environmental Quality. Plant serves approximately 46,000 connections with a design flow of 50MGD. Treatment consists of screening/comminution, 4 activated sludge units (sludge is later dried and incinerated), 6 sedimentation tanks, injected chlorination and dechlorination with final effluent being discharged to the Elizabeth River. Outfall is located approximately ¾ of a mile offshore in 9' of water.

ON-SITE SEWAGE DEFICIENCIES

-None-

POTENTIAL POLLUTION

-None-

SECTION C: NON-SEWAGE WASTE SITES

INDUSTRIAL WASTES

-None-

SOLID WASTE DUMPSITES

-None-

SECTION D: BOATING ACTIVITY

MARINAS

2. Knitting Mill Creek Yacht Club, 765 West 48th Street, Norfolk 23508. Private yacht club. No contact. 14 slips available. Present at time of survey were 7 boats under 26' and 4

boats over 26' in wet slips. The only boating service provided is electricity. Sanitary facilities provided are 1 unisex commode and 1 unisex lavatory. Sewage disposal is to HRSD. Portable toilet dump station facilities and boat holding tank pump-out facilities are available at this location.

3. American Legion Post 60 Marina, 4610 Colley Avenue, Norfolk 23518. Private marina. 1 person. 22 wet slips and 40 dry storage spaces available. Present at time of survey were 9 boats under 26' and 7 boats over 26' in wet slips; and in dry storage there were 17 boats under 26' and 16 boats over 26'. Boating services provided include electricity and water. Sanitary facilities provided are 1 commode, 1 lavatory, 1 shower and 2 urinals for men; and for women there are 2 commodes and 2 lavatories. Sewage disposal is to HRSD. Portable toilet dump station facilities are available at this location.

4. Tidewater Boat Club, 798 West 46th Street, Norfolk 23508. Private marina. No contact. 29 slips available. Present at time of survey were 12 boats under 26' and 11 boats over 26'. Boating services provided include electricity and water. Sanitary facilities provided are 1 commode, 1 lavatory and 1 shower for men; and for women there are 1 commode, 1 lavatory and 1 shower. Sewage disposal is to HRSD. There are no portable toilet dump station facilities provided at this location. Boat holding tank pump-out facilities are provided by Knitting Mill Creek Yacht Club.

5. Macks Pier, 794 West 45th Street, Norfolk 23508. Owner: Mack Crawford, 5223 Windermere Avenue, Norfolk 23513. Private marina. No contact. 8 slips available. Present at time of survey was 1 boat under 26' and 4 boats over 26'. Boating services provided include electricity and water. There are no sanitary facilities, no boat holding tank pump-out facilities and no portable toilet dump station facilities provided at this location.

7. Norfolk Yacht and Country Club, 7001 Hampton Boulevard, Norfolk 23505. Private yacht club. 2 employees. 144 wet slips and 44 dry storage spaces available. Present at time of inspection were 58 boats under 26' and 58 boats over 26' in wet slips; and in dry storage there were 44 boats under 26'. Boating services provided include ramp, fuel, electricity and water. Sanitary facilities provided are 8 commodes, 8 lavatories, 6 showers and 10 urinals for men; and for women there are 12 commodes, 7 lavatories and 3 showers. Sewage disposal is to HRSD treatment plant. Portable toilet dump station facilities and boat holding tank pump-out facilities are available at this location.

OTHER PLACES WHERE BOATS ARE MOORED

6. Tanners Landing, 4200 Granby Street, Norfolk 23503. Owner: Tanners Landing Association LLC, P.O. Box 8338 Norfolk, 23503. Private docking for unit owners. No contact. 10 slips available. There were no boats present at time of survey. Location is exempt from the requirements to provide pump out, dump station or restroom facilities.

UNDER SURVEILLANCE

-None-

SECTION E: CONTRIBUTES ANIMAL POLLUTION

-None-

SUMMARY

Area # 065
Elizabeth River: Lafayette River
26 May 2011

SECTION B: SEWAGE POLLUTION SOURCES
1. SEWAGE TREATMENT FACILITIES

1 – DIRECT – # 1
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.

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
0 – INDIRECT – None
0 – C.1. TOTAL

2. SOLID WASTE DUMPSITES

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

SECTION D: BOATING ACTIVITY

5 – MARINAS – # 2, 3, 4, 5, 7
1 – OTHER PLACES WHERE BOATS ARE MOORED – # 6
0 – UNDER SURVEILLANCE – None
6 – D. TOTAL

SECTION E: CONTRIBUTES ANIMAL POLLUTION

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

76°19'30"W 76°18'0"W 76°16'30"W 76°15'0"W

36°54'0"N 36°52'30"N

Virginia Department of Health
Division of Shellfish Sanitation

Elizabeth River: Lafayette River
065
Shoreline Sanitary Survey

City of Norfolk

Date: 26 May 2011
Survey By: J.D. Dickerson
Number of Properties Surveyed: 7

0 0.5 1 Miles

N

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

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
- Contributes Animal Pollution - Indirect

VDH VIRGINIA DEPARTMENT OF HEALTH
Protecting You and Your Environment
www.vdh.virginia.gov/shellfish