



COMMONWEALTH of VIRGINIA

Department of Health Division of Shellfish Safety

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Chincoteague Channel and Tom's Cove Growing Area # 101 Accomack County Shoreline Sanitary Survey

Date: 30 October 2020

Survey Period: November 6, 2019 – October 14, 2020

Total Number of Properties Surveyed and Near Shore Samples Collected: 205

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

SECTION A: GENERAL

This survey area extends from Reference Point 99 at the south side of the west end of the bridge over Black Narrows on Route 175, continuing around the shoreline of all islands and land area east of this point in a counter clockwise direction continuing on the south side of route 2113 and south of a line drawn from the beginning of Route 2113 on Assateague Island east to the Atlantic Ocean to reference point 101 adjacent to the old Assateague Beach Coast Guard Station, including Black Narrows, Chincoteague Channel, The Canal, Chincoteague Inlet, Fowling Gut, Andrews Landing Gut, Black Point Drain, Assateague Channel, Sheepshead Creek, Smalley Drain, Black Duck Creek, Tom's Cove, Little Tom's Cove, Eel Creek, and all of their tributaries. Due to the number of dwellings in this area, this report encompasses only half of the Chincoteague and Assateague Islands – the remainder of the islands are surveyed under the designation Growing Area # 102 "Assateague Channel and Oyster Bay".

The topography in this area is generally low and marshy, with maximum elevations of 5' on Chincoteague Island and 10' on Assateague Island. Occasional flooding occurs in the low lying and poorly drained areas during storms and unusually high tides. During this survey period, frequency of ponding of storm water in residential areas was high. Chincoteague Island is densely populated with significant seasonal variation due to a large number of dwellings used as vacation homes. The population increases dramatically during the summer months, reaching peak levels during the July pony penning event. Conversely, Assateague Island is sparsely populated, as the majority of the land mass is occupied by the *Assateague Island National Seashore Park*. A high level of tourist traffic visits the park during summer months to access the beach and pony-viewing areas. While the economy of both islands is based primarily on tourism, Chincoteague has a growing shellfish aquaculture industry as well as other seafood harvesting and processing operations. Lot development and enhancement is continuous on Chincoteague; at the time of this writing.

Meteorological data indicated that the area received a total rainfall of 16.73" for the survey period. A monthly breakdown is as follows:

Nov 6-30, 2019	1.81"	December	2.32"	Jan. 2020	2.91"
February	4.92"	March	4.0"	April	3.95"
May	1.63"	June	1.51"	July	3.87"
August	7.04" (H. Laura 3.32")	September	4.05"	Oct. 1-14	1.77"

Sewage disposal systems serving residential and commercial properties on Chincoteague Island are cesspools, septic tanks with drain fields, or approved alternative systems, such as mounds and sand filtration systems. As cesspools age and experience increased seasonal demand, they are frequently being replaced with alternative systems that are better suited to low ground. Even so, a significant proportion of existing dwellings continue to rely on cesspools and drywells. Cesspools and septic tanks are periodically pumped by private contractors and the sludge removed to a mainland location (currently located in Maryland). Assateague Island uses portable and vault privies for its sewage disposal. There are nine sewage treatment facilities in this survey, serving Sunset Bay Village, the US Coast Guard Station, the Marina Bay Hotel, and several private residences using sand filtration systems.

Boating activity around Chincoteague Island is variably heavy, with maximum activity occurring during the summer months, especially when the pony herd is being swum across the Assateague Channel in July. Recreational boaters and commercial watermen alike make maximum use of the waters during the June-August time frame, with heavy concentrations of recreational boaters at the southeast tip of Chincoteague (including Chincoteague Channel and The Canal) and near Black Point in Assateague Channel.

Animal activity is unusually high on both islands. A herd of semi-wild ponies ranges free across Assateague Island, with the Virginia consisting of approximately 150 animals, impacts this survey. Assateague is also home to large populations of deer, waterfowl, and shorebirds. Domestic dogs are not allowed on the Virginia portion of Assateague Island. Chincoteague Island is home to a number of privately-owned horses and ponies, unusual for such a populated area, and a moderate influx of domestic dogs accompanies summer visitors. It is noteworthy that a large flock of semi-domesticated ducks and geese range free through the town, with groups of more than 50 not uncommon in certain yards. Feeding of the flock by local residents increases concentrations of bird waste in those areas, most notably along the Chincoteague Channel.

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 to establish nearshore seawater stations. Properties identified in the previous survey as having sanitary deficiencies or other environmental significance were revisited to evaluate their classification 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 was analyzed and used to compare relative concentrations of fecal indicator bacteria within the waterway to identify potential onshore sources of contamination.

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

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. Data 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).

Maps of the Enterococcus sampling are shown at the conclusion of this report.
Hydrographic data is shown in the table below.

Area 101 Nearshore Sampling				Rainfall in Inches		
Sample Dates	High Tide	Sampling Times	Enterococci Range (MPN/100ml)	Day of	Previous 48 hours	Previous 72 hours
7/1/20	5:33 AM	9:27am – 10:59am	<10 - 3,873	0.26"	0.16"	0.16"
7/14/20	3:49 AM	9:24am-11:06am	<10 - 31	0.09"	0.04"	0.04"
7/15/20	4:42 AM	10:09am – 12:05pm	<10 - 10	0.00"	0.13"	0.13"
9/11/20	3:19 AM	9:33am – 11:40am	<10 - 5,472	0.00"	0.73"	0.73"
9/30/20	8:07 AM	10:01am – 10:55am	<10 - 309	0.42"	0.17"	0.17"
10/1/20	8:44 AM	10:08am – 12:49pm	<10 - 31	0.00"	0.58"	0.59"

Administrative Note: Surveying in this growing area was interrupted during spring of 2020 because of Covid-19.

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
1582	101	C45	10/22/2020	SEWAGE TREATMENT FACILITY, direct	37.931572	-75.383412	3801 Main Street, Chincoteague Island 23336	Permit # VA0091677. Facility has a 12,000 GPD capacity.	Alt	Business	N	Marina Bay Hotel. Three story white, blue, and gray sided hotel.	Accomack	TC		
4697	101	C46	3/10/2020	SEWAGE TREATMENT FACILITY, direct	37.931717	-75.382538	3823 Main Street, Chincoteague Island 23336	Permit # VA0087327. Treatment facility has max capacity of 6,000 GPD, and currently operating at rate of approximately 500-1,200 GPD.	Alt	Business	Y	U.S. Coast Guard station. Series of white vinyl buildings with red roofs. Permit # VA0087327.	Accomack	TC		
4705	101	C49	3/10/2020	SEWAGE TREATMENT FACILITY, direct	37.931712	-75.381925	3855 South Main Street, Chincoteague Island 23336	Permit # VA0091049. Total capacity of the two tanks is 0.0395 MGD.	Alt	Business	N	Sunset Bay Village, Island Utilities, LLC. Three story condos. Permit # VA0091049. Facility takes in sewage from Sunset Bay condo's.	Accomack	TC		
4706	101	C50	3/10/2020	SEWAGE TREATMENT FACILITY, direct	37.931738	-75.381859	6321 Captains Lane, Chincoteague Island 23336	Permit # VA0054003. Total capacity of the two tanks is 0.0395MGD.	Alt	Business	N	Sunset Bay Village, Sunset Bay South WWTP. 3 story condos. Permit # VA0054003. Facility takes in sewage from Don's Seafood Restaurant, a movie theater, Sunset Bay condo's, and the Fairfield Inn.	Accomack	TC		
1562	101	C61	3/24/2020	SEWAGE TREATMENT FACILITY, direct	37.925842	-75.386312	3297 Dodd Street, Chincoteague Island 23336	Private residence. Permit # VAG403035. 300 GPD capacity.	Alt	Dwelling	N	One story brown vinyl shakes with blue shutters. System shared with 3311 Dodd Street house which has tan vinyl with green shutters. (Next door)	Accomack	TC		
1564	101	C62	3/25/2020	SEWAGE TREATMENT FACILITY, direct	37.928076	-75.374674	6448 Arbor Lane, Chincoteague Island 23336	Private residence. Permit # VAG403030. Discharges <1,000 GPD into Eel Creek.	Alt	Dwelling	N	2 story beige siding with maroon shutters and garage.	Accomack	TC		
1563	101	C63	3/25/2020	SEWAGE TREATMENT FACILITY, direct	37.927923	-75.374784	6465 Myrtle Lane, Chincoteague Island 23336	Private residence. Permit #VAG403031. Sand filtration system shared with adjacent lot.	Alt	Dwelling	N	1.5 Story tan vinyl with white trim.	Accomack	TC		
4734	101	C64	3/11/2020	SEWAGE TREATMENT FACILITY, direct	37.918306	-75.392936	3259 Main Street, Chincoteague Island 23336	Private residence. Permit # VAG403042. Discharges <1,000 GPD.	Alt	Dwelling		Raised 1 story grey/white vinyl with brown roof.	Accomack	TC		
1561	101	C60	3/24/2020	SEWAGE TREATMENT FACILITY, direct	37.925657	-75.385910	3312 Dodd Street, Chincoteague Island 23336	Private residence. Permit # VAG403036. 1200 GPD design flow capacity.	Alt	Dwelling			Accomack	TC		
4636	101	C2	12/6/2019	CONTRIBUTES POLLUTION, direct	37.903991	-75.407191	2272 Main Street, Chincoteague Island 23336	Several RV waste lines disconnected through out Campground. Several sites completely under water with sewage hookups underwater and disconnected.	Conv	Business	Y	Inlet View Campground. Permanently closed, for sale. Site is abandoned with several deficiencies. Approx 75-100 units still on site.	Accomack	TC		
4640	101	C5	11/8/2019	CONTRIBUTES POLLUTION, direct	37.913004	-75.392699	8051 Mire Pond One, Chincoteague Island 23336	Uncapped septic hook-up.	Conv	Dwelling	N	One story grey vinyl siding home. Purple shutters and front door. White trim on front porch.	Accomack	TC		
4679	101	C30	1/22/2020	CONTRIBUTES POLLUTION, direct	37.922631	-75.357919	6742 Maddox Boulevard, Chincoteague Island 23336	Failing drain fields bordering marsh. Repairs about to begin.	Conv	Business	Y	KOA Resort, Sun Chincoteague Island LLC. Southern drain field areas of campground boarding marsh.	Accomack	TC		
4680	101	C31	1/22/2020	CONTRIBUTES POLLUTION, direct	37.923102	-75.356319	6742 Maddox Boulevard, Chincoteague Island 23336	Failing drainfields in tent area of Campground. Repairs to start soon.	Conv	Business	Y	KOA Resort, Sun Chincoteague Island LLC. Tent area on east side of KOA campground	Accomack	TC		
4681	101	C32	1/22/2020	CONTRIBUTES POLLUTION, direct	37.923265	-75.355140	6742 Maddox Boulevard, Chincoteague Island 23336	Failing drain fields.	Conv	Business	Y	KOA Resort, Sun Chincoteague Island LLC. South east drainfield area.	Accomack	TC		

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
4682	101	C33	1/22/2020	CONTRIBUTES POLLUTION, direct	37.922719	-75.358773	6742 Maddox Boulevard, Chincoteague Island 23336	South east drain field failing.	Conv	Business	Y	KOA Resort, Sun Chincoteague Island LLC. Southern drain field area.	Accomack	TC		
4638	101	C3	1/22/2020	CONTRIBUTES POLLUTION, indirect	37.906294	-75.400272	8252 Seabird Drive, Chincoteague Island 23336	Unapproved septic tank lid.	Conv	Dwelling	N	Beige metal trailer.	Accomack	TC		
4644	101	C7	3/25/2020	CONTRIBUTES POLLUTION, indirect	37.912088	-75.389085	Toms Cove Park, Lot 5 (near bike rentals). Park address: 8128 Beebe Road,	Lid not tight fitting on sewage cover. Disturbed septic area in back yard and pooling liquid in back corner with greenish color.	Conv	Dwelling	N	Owned by Burtons Seafood. Yellow one story trailer with addition on front.	Accomack	TC		
4645	101	C8	12/5/2019	CONTRIBUTES POLLUTION, indirect	37.909958	-75.385262	Toms Cove Park, Undefined lot number, 8128 Beebe Road, Chincoteague Island 23336	Septic line not connected.	Conv	Dwelling	N	Owned by Burtons Seafood. Black,white, and silver RV with septic hose unhooked.	Accomack	TC		
4646	101	C9	12/5/2019	CONTRIBUTES POLLUTION, indirect	37.912748	-75.385299	Toms Cove Park, Undefined lot number, 8128 Beebe Road, Chincoteague Island 23336	Uncapped sewage line.	Conv	Dwelling	N	Empty site called "the Barrows". Fenced in lot.	Accomack	TC		
4647	101	C10	12/5/2019	CONTRIBUTES POLLUTION, indirect	37.912379	-75.386912	Toms Cove Park, Undefined lot number, 8128 Beebe Road, Chincoteague Island 23336	Uncapped septic line.	Conv	Dwelling	N	Empty lot surrounded my yellow picket fence. Screened in porch area still in place on deck.	Accomack	TC		
4648	101	C11	12/5/2019	CONTRIBUTES POLLUTION, indirect	37.912655	-75.386493	Toms Cove Park, Undefined lot number, 8128 Beebe Road, Chincoteague Island 23336	Uncapped septic pipe.	Conv	Dwelling	N	Lot with small shed still in place but RV is absent. License plate on shed says "Rabuck".	Accomack	TC		
4649	101	C12	12/5/2019	CONTRIBUTES POLLUTION, indirect	37.912019	-75.387871	Toms Cove Park, Undefined lot number, 8128 Beebe Road, Chincoteague Island 23336	Uncapped septic line.	Conv	Dwelling	N	Empty lot with small shed. Red fence on one side of lot.	Accomack	TC		
4650	101	C13	3/25/2020	CONTRIBUTES POLLUTION, indirect	37.911519	-75.388901	Toms Cove Park, Undefined lot number, 8128 Beebe Road, Chincoteague Island 23336	Uncapped septic line.	Conv	Dwelling	N	Owned by Burtons Seafood. Empty lot with wood fence.	Accomack	TC		
4651	101	C14	12/5/2019	CONTRIBUTES POLLUTION, indirect	37.911498	-75.388467	Toms Cove Park, Undefined lot number, 8128 Beebe Road, Chincoteague Island 23336	Empty lot with uncapped septic line.	Conv	Dwelling	N	Owned by Burtons Seafood. Empty lot with concrete slab of red/grey color. Wooden fence on two sides of lot.	Accomack	TC		

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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'	NUM BOATS >26'	Evidence of Live-Aboards	DSS Staff
4635	101	C1	11/6/2019	BOATING ACTIVITY	37.902311	-75.405202	End of Curtis Merritt Harbor Street, Chincoteague Island 23336	Well kept marina with slips. Restrooms currently being renovated, privy are in place. Has boat ramp, electric, fuel pumps, trash containers, and pump out.	Conv	Marine	N	Curtis Merritt Harbor.	Accomack	Marina	121	25	30	N	TC
4639	101	C4	11/6/2019	BOATING ACTIVITY	37.909003	-75.401698	2477 Main Street, Chincoteague Island 23336	Fuel pumps are covered with tarp, restrooms boarded up, and sign says closed. Marina has ramp and water for fish cleaning station.	Conv	Marine	N	Capt. Bob's Marina. Grey, one story with white trim.	Accomack	Marina	90	3	0	N	TC
4689	101	C40	3/23/2020	BOATING ACTIVITY	37.928524	-75.385337	3691 Main Street, Chincoteague Island 23336	Private pier with 27 slips.	Conv	Marine	N	Red and blue two story private residence.	Accomack	Marina	27	0	0	N	TC
4641	101	C6	11/8/2019	BOATING ACTIVITY	37.909096	-75.383527	Tom's Cove Park, 8128 Beebe Road, Chincoteague Island 23336	In out ramp with fish cleaning station. Has fishing pier on other side of ramp. Has electric, restrooms, and waste bins. No sewage waste pump out.	NA	Marine	N	Tom's Cove Park boat ramp, Burtons Seafood Inc, Single boat ramp on Assateague channel. With two L-shaped docks. Several small boat slips. Restroom facilities provided.	Accomack	OPWBM	60	1	0	N	TC
4652	101	C15	12/17/2019	BOATING ACTIVITY	37.916456	-75.381077	7425 Memorial Park Drive, Chincoteague Island 23336	In out ramp, pier, restrooms, and trash bins.	Conv	Public	N	Memorial Park, Town Of Chincoteague. Public park with boat ramp, pier, restrooms, tennis court, and play ground.	Accomack	OPWBM	0	0	0	N	TC
4655	101	C17	12/17/2019	BOATING ACTIVITY	37.916910	-75.375311	7444 East Side Road, Chincoteague Island 23336	Approximately 14 slips and a fish cleaning station on dock with fresh water.	Conv	Marine	N	Seatag Lodge Condominium Association. Two story tan vinyl siding with green trim.	Accomack	OPWBM	14	0	0	N	TC
4656	101	C18	12/17/2019	BOATING ACTIVITY	37.917017	-75.373687	7536 East Side Road, Chincoteague Island 23336	Approximately 12 slips.	Conv	Marine	N	Snug Harbor Marina, Shields Properties LLC. Several brown sided buildings/cottages.	Accomack	OPWBM	12	0	0	N	TC
4657	101	C19	12/17/2019	BOATING ACTIVITY	37.917447	-75.372226	7564 East Side Road, Chincoteague Island 23336	Aquafarms facility with dock, often with a few boats moored at dock.	Conv	Marine	N	Ballard Fish & Oyster, BC Real Estate LLC. One story cinderblock building with dock in back.	Accomack	OPWBM	4	3	0	N	TC
4684	101	C35	1/22/2020	BOATING ACTIVITY	37.920166	-75.391772	Across from 3340 Main Street, Chincoteague Island 23336	Pier with 5 slips. Sewage pumped across the street. No electric or fresh water on pier.	Conv	Marine	N	Daisy's Dockside Pontoon Cruises. 1 story dock house with grey siding.	Accomack	OPWBM	5	1	0	N	TC
4691	101	C42	1/13/2020	BOATING ACTIVITY	37.930463	-75.384311	3761 Main Street, Chincoteague Island 23336	Pier with 16 slips and trash cans.	Conv	Marine	N	Waterside Inn. Three story tan vinyl with white and blue trim.	Accomack	OPWBM	16	0	0	N	TC
4692	101	C43	3/23/2020	BOATING ACTIVITY	37.930717	-75.383998	Waters Edge Drive, Chincoteague Island 23336	Pier with approximately 22 slips, water, electric, and fish cleaning station.	Conv	Marine	N	The Landing at Waters Edge. Three story Tan sided town homes.	Accomack	OPWBM	22	0	0	N	TC
4693	101	C44	3/23/2020	BOATING ACTIVITY	37.931046	-75.383759	3791 Main Street, Chincoteague Island 23336	18 slips, boat ramp, and electric.	Conv	Marine	N	Anchor Inn, Bayside Hospitality LLC. Two story motel with white and blue siding.	Accomack	OPWBM	18	0	0	N	TC
4703	101	C47	3/23/2020	BOATING ACTIVITY	37.932508	-75.382200	6321 Captains Lane, Chincoteague Island 23336	70 slips with electric, water, pump out, restrooms in office, and trash bins.	Conv	Marine	N	Sunset Bay Village, Sunset Bay LLC. 3 story tan, blue, green, and coral colored condos.	Accomack	OPWBM	70	0	0	N	TC
4707	101	C51	3/23/2020	BOATING ACTIVITY	37.933196	-75.380345	3913 Main Street, Chincoteague Island 23336	5 slips but other mooring space available. Sign posted for pump out available. Hook ups for fresh water and electric on pier.	Conv	Marine	N	Fairfield Inn & Suites Marriott, Chincoteague Sunsets LLC. 3 story blue and tan hotel.	Accomack	OPWBM	5	0	0	N	TC
4710	101	C54	3/23/2020	BOATING ACTIVITY	37.933876	-75.379179	4026 Main Street, Chincoteague Island 23336	Boat ramp with no slips, but places to moor available along bulkhead.	NA	Marine	N	Town owned public boat ramp. Town of Chincoteague.	Accomack	OPWBM	0	0	0	N	TC

SECTION D: BOATING ACTIVITY

[illegible]

SECTION E: CONTRIBUTES ANIMAL POLLUTION

[illegible]

SUMMARY

Growing Area # 101
Chincoteague Channel and Tom's Cove
30 October 2020

SECTION B: SEWAGE POLLUTION SOURCES

1. SEWAGE TREATMENT FACILITIES

9 – DIRECT – # C45, C46, C49, C50, C60, C61, C62, C63, C64

0 – INDIRECT – None.

9 – B.1 TOTAL

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

6 – CONTRIBUTES POLLUTION, DIRECT – # C2, C5, C30, C31, C32, C33,

11 – CONTRIBUTES POLLUTION, INDIRECT – # C3, C7, C8, C9, C10, C11, C12, C13, C14, C16, C29

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.

17 – B.2 TOTAL

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

7 – POTENTIAL POLLUTION – # C53, C56, C65, C66, C67, C68, C69

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.

7 – INDIRECT – # C20, C28, C34, C39, C48, C52, C72

7 – C.2 TOTAL

3. STORMWATER OUTFALLS

0 – DIRECT – None

0 – INDIRECT – None

0 – E. TOTAL

SECTION D: BOATING ACTIVITY

3 – MARINAS – # C1, C4, C40

16 – OTHER PLACES WHERE BOATS ARE MOORED – # C6, C15, C17, C18, C19, C35, C42, C43, C44, C47, C51, C54, C55, C70, C71, C73

3 – UNDER SURVEILLANCE – # C36, C37, C75

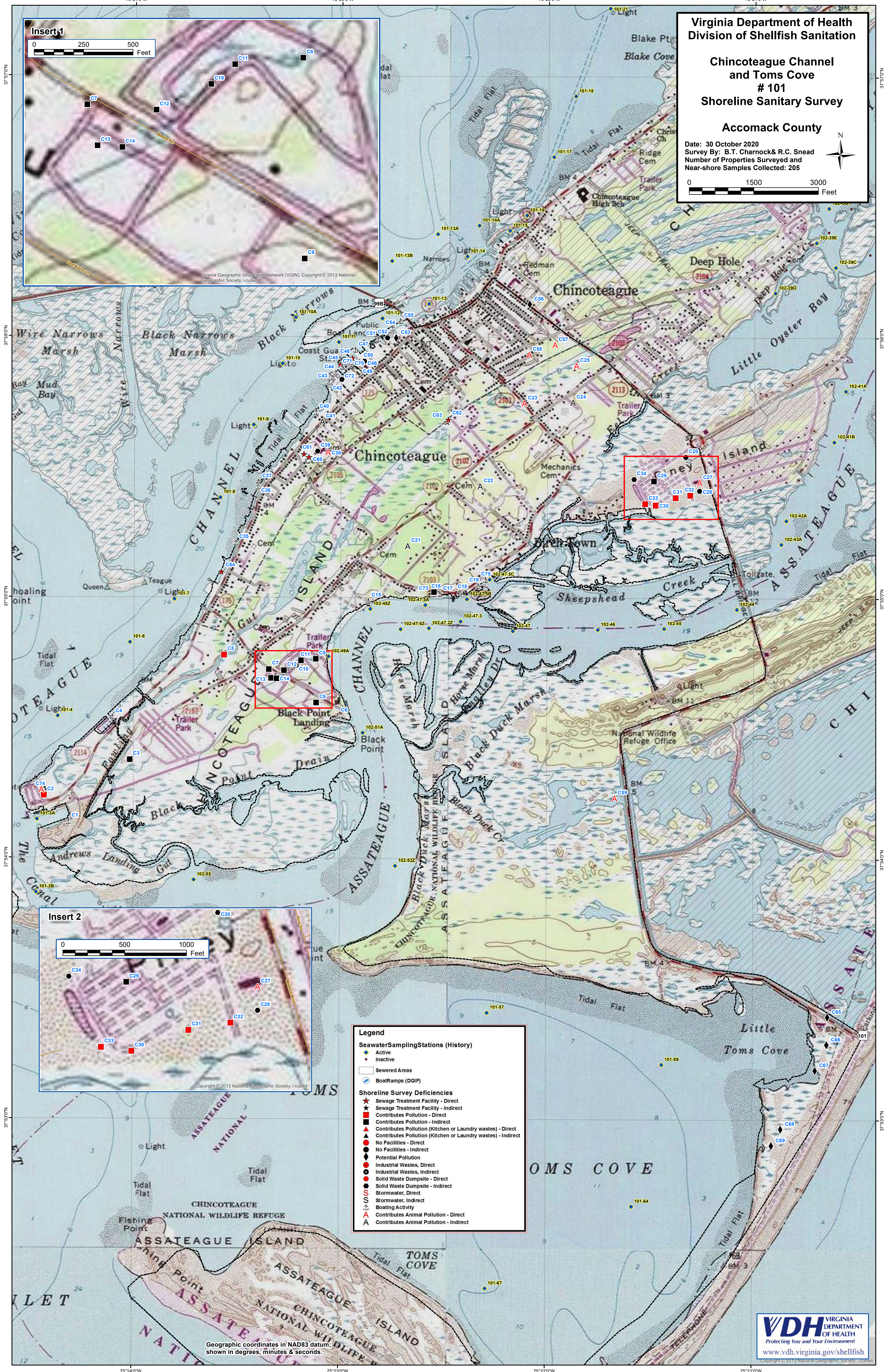
22 – D. TOTAL

SECTION E: CONTRIBUTES ANIMAL POLLUTION

8 – DIRECT – # C23, C25, C27, C38, C57, C58, C59, C74

4 – INDIRECT – # C21, C22, C24, C41

12 – E. TOTAL



Virginia Department of Health
Division of Shellfish Sanitation

Chincoteague Channel
and Toms Cove
101
Shoreline Sanitary Survey

Accomack County

Date: 30 October 2020
Survey By: B.T. Charnock & R.C. Snead
Number of Properties Surveyed and
Near-shore Samples Collected: 205



0 1500 3000
Feet

Legend

Seawater Sampling Stations (History)

◆ Active
● Inactive

▭ Sewered Areas

⚓ Boat Ramps (DGIF)

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
● Stormwater, Direct
● Stormwater, Indirect
⚓ Boating Activity
▲ Contributes Animal Pollution - Direct
▲ Contributes Animal Pollution - Indirect

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

* Highest value was 5472 on September 11, 2020.

