

Sanitary Sewer Testing Form

Project: _____ Plan Drawing# : _____

Tested by: _____ Test Date: _____
(Contractor)

Inspector Name: _____

Line Location:

Manhole# _____ to Manhole#: _____

Laterals: _____ Lot#/Bldg#: _____

Sewer Pipe Size _____ Material: _____ Length (ft): _____

Condition:

Pipe: _____

Seals _____

Beading: _____

Cover: _____

Tamping: _____

Backfill Tamping _____

Testing:

Start Time: _____ End Time: _____ Weather: _____

Start P.S.I.: _____ End P.S.I.: _____

Result: _____

Notes:

VA American Sewer Testing Form

Plan/Project Name: Four Seasons at Virginia Crossing **Plan #:** SPR2020-00021S04
Tested by: JEF/MPC/JB **Test Date:** 10/7/2021

Line Location:

MH # 2 **to MH #** 1
Laterals: N/A **Lot #/Building #:** N/A
Pipe Size: 8" **Material:** C-900 **Length:** 132'

Condition:

Pipe: New
Seals: New
Beading: New
Cover: Done
Tamping: Done
Backfill Tamping: Done

Testing:

Start Time: 12:05 **End Time:** 12:13 **Weather:** Cloudy 63 Degrees
Start P.S.I.: 4 **End P.S.I.:** 4 **Result:** Pass

Notes:

Backfilled



VA American Sewer Testing Form

Plan/Project Name: Four Seasons at Virginia Crossing **Plan #:** SPR2020-00021S04
Tested by: JEF/MPC/JB **Test Date:** 10/7/2021

Line Location:

MH # 3 **to MH #** 4
Laterals: N/A **Lot #/Building #:** N/A
Pipe Size: 8" **Material:** C-900 **Length:** 50.37'

Condition:

Pipe: New
Seals: New
Beading: New
Cover: Done
Tamping: Done
Backfill Tamping: Done

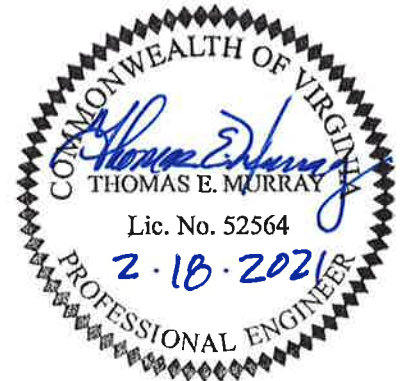
Testing:

Start Time: 11:21 **End Time:** 11:30 **Weather:** Cloudy 63 Degrees
Start P.S.I.: 4 **End P.S.I.:** 4 **Result:** Pass

Notes:

Backfilled

Sample Form (reference only)



5.11 Acceptance Tests

A. General

The Field Inspector will inspect sanitary sewer mains to determine if any deviation from line and grade has occurred. The Service Authority will inspect all gravity sanitary sewer mains using closed-circuit television prior to Partial/Full Beneficial Use and final acceptance/bond release. The Applicant shall correct any deficiencies, such as sags (bellies) in the pipe, rolled joints, leaks, damaged pipe, and out of round pipe, prior to Partial/Full Beneficial Use, and final acceptance/bond release.

An acceptance test is required for all sanitary sewer mains and manholes. Acceptance tests are not permitted by the Applicant until the sanitary sewer, manholes, and required sewer service connections, as shown on the approved Project Plans, have been installed and sewer trenches backfilled and compacted to finished sub-grade. The testing methods are: air testing for sanitary sewer mains, in accordance with ASTM F1417 and vacuum testing for manholes, in accordance with ASTM C1244.

The Applicant shall furnish weirs, standpipes, pipe plugs, water, pressure gauges, stop watches, air compressors, hoses, and other materials and assistance required to perform these tests. The Applicant shall conduct all acceptance tests in the presence of the Field Inspector.

The Applicant shall completely remove all sanitary sewer mains, structures, facilities, and related appurtenances not meeting the requirements of these standards and replaced with new materials.

Whenever it has been necessary for the Applicant to construct under drains or place gravel under pipelines to dewater the trench during construction of the sanitary sewer mains, the acceptance test is not permitted until pumps and pipes (which have been used in the dewatering process) have been disconnected and removed by the Applicant.

Applicant shall schedule all acceptance tests with the Field Inspector at least 48 hours in advance. Testing of each section of completed sanitary sewer is required. Generally, sanitary sewer mains are tested from manhole to manhole.

B. Air Testing Procedure for Sanitary Sewer Mains

The Applicant shall introduce air into the sealed mains until the internal pressure is four (4) psi and maintain this pressure for a period of at least five (5) minutes without leakage.

C. Manhole Vacuum Testing

Applicant shall:

1. Provide the vacuum testing equipment per the manufacturers' requirements. The manhole is tested from the rim of the cover frame to the invert.
2. Use either mechanical or pneumatic plugs capable of resisting test pressures.
3. Secure test plugs against the manhole wall to ensure no movement during the test.

4. Ensure all manhole boots, stub-outs, and pipe plugs are secured to prevent movement while vacuum is drawn.
5. Draw and maintain a vacuum of 10-inch Hg for 60 seconds.

D. Force Main Testing

Fill all force mains with water and pressure test for one (1) hour without leakage.

1. Low-pressure PVC force mains are pressure tested at 100 psi.
2. All DIP force mains are pressure tested at 100 psi above the maximum operating pressure, but not less than 150 psi.

E. Private Sanitary Sewer Mains

Private sanitary sewer mains and manholes are permitted when they fully reside on the property they serve with no additional connections from another property.

1. The Applicant shall install non-PWCSA manhole lids on all private manholes.
2. The Applicant shall arrange for all private sanitary sewer mains and manholes to be inspected by a qualified third party Inspector. All private sanitary sewer mains and manholes shall be tested for leakage in accordance with this Manual.
3. All private sanitary sewer mains shall be flushed clean with catch basins temporary installed on downstream sanitary sewer main prior to being placed into service.
4. A copy of the inspection reports from the qualified third party Inspector, NASSCO certified TV inspection, and test results shall be provided to the Field Inspector.

5.12 Sewage Bypass Pumping Requirements

A. General

The Applicant shall safely and adequately bypass sanitary sewer flows around any sanitary sewer main, manhole, or sewage pumping station(s) to be taken out of service for inspection, construction, lining, or any other purpose and shall complete the work without causing or contributing to any spills, discharges, overflows, leaks, or deposits of sewage into the environment, including the land, surface water, groundwater, or backups into public or private buildings/property (collectively, “sewage spill(s)”).

The Applicant shall take precautions to protect the public health and protect the sanitary sewer system from damage resulting from sewer surcharging. Further, the Applicant shall take precautions to ensure bypass flow control operations do not cause flooding or damage to public or private property. The Applicant is responsible for all damage resulting from the bypass flow control operations.

The Applicant shall furnish all labor, materials, equipment, and supplies, and shall perform all work related to control the bypass operation. Bypass pumping plans are subject to review by the Development Manager or designee prior to starting work. The bypass pumping system shall meet the requirements of all codes and regulatory agencies