**BOROUGH OF LANGHORNE MANOR**
**618 HULMEVILLE AVENUE**
**LANGHORNE MANOR**
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**215-752-5835 215-752-4675 (Fax)**

December 19, 2023

Dear Residents & Neighbors,

On Thursday, January 4th, a crew from Remington & Vernick Engineers (RVE) will be on site to perform Infiltration Testing as part of the 'Prospect Avenue & Pine Street Infiltration Trenches' project for Langhorne Manor Borough. This project includes the replacement of existing stormwater drainage swales with infiltration trenches. The affected locations are on the North side of Prospect Avenue between Station Avenue and Hulmeville Avenue, and the East side of Pine Street between 805 Pine Street and Manor Avenue.

An Infiltration Test is a field test that determines the infiltration rate of a particular area's soils. The testing will consist of digging two (2) test pits (deep holes) in the grassy right-of-way on each street to observe existing sub-surface conditions. These test pits will be approximately 3' wide and 6' deep. A backhoe will be used to excavate the test pits.

The Prospect Avenue test pits are to be located on the North side of the street, one near the intersection of Hulmeville Avenue (NE corner) and the other at the intersection of Hill Avenue (NW corner). The Pine Street test pits are to be located on the East side of the street.

In addition to the visual inspections, Double-Ring Infiltrometer Tests will be performed in each test pit. A Double-Ring Infiltrometer Test estimates the vertical movement of water through the bottom of the test area. The equipment needed to perform the Double-Ring Infiltrometer Test is minimal and only consists of two concentric cylinder rings 6-inches or greater in height. These rings are filled with water and the drop in water level or volume is used to calculate an infiltration rate.

Please note, the testing is weather dependent. The tests will not be performed during rain events or immediately after heavy rain events, or when the temperature is below freezing. If unsuitable weather conditions are forecasted, and the tests need to be rescheduled, the Borough will be informed as soon as possible. The crew is expected to be on site between the hours of 7:00 AM – 4:00 PM.

We understand that this project may be disruptive at times. The borough, along with RVE, will work to minimize any inconvenience.

We thank you in advance for your understanding as we embark on this important project to move Langhorne Manor forward in meeting our PA DEP Municipal Separate Storm Sewer System (MS4) requirements. Once completed, the infiltration trenches will help to reduce the amount of sediment and other pollutants that enter our streams, thus working towards the overall health of the waterways in our area.

## PROJECT BACKGROUND

This project includes the replacement of existing stormwater drainage swales with infiltration trenches. The existing swales discharge stormwater to the Neshaminy Creek and Mill Creek watersheds, both of which are impaired with siltation. This project will address the siltation impairments by reducing the volume of stormwater that is directly discharged to surface waters. Storm runoff will move through the various drains and porous pipe of the infiltration trench, allowing a portion of the water to infiltrate into the ground and recharge groundwater. Therefore, less sediment will be discharged. All work is intended to stay within the Borough's right-of-way. Please note that, once completed, the new grass-covered infiltration trenches will appear much as the swales do now.

Additional project information will be provided once the design is complete, and a contractor has been awarded this work. This will include a schedule for the construction project, which is expected to commence in early 2024. At this point in time, the Borough has been awarded enough grant money for construction of the Pine Street trench. The timing of the Prospect Avenue trench construction is dependent on additional grant funding.

Thank you,

Langhorne Manor Borough Council