Geotechnical Investigation Methods

Drill Rig

The standard method for geotechnical investigations, a machine is used to drill below the ground surface to determine the presence of rock. This process involves drilling a hole roughly 4 inches in diameter and upward of 30 feet deep.

Hand Auger

In areas where space is limited, this tool is used manually to determine the presence of rock. This alternative method has a depth limitation of 10 feet.

Refraction Microtremor (ReMi)

This alternative method uses seismic vibrations to generate a profile of the subsurface conditions.







CHARLOTTE WUTER

5100 Brookshire Boulevard Charlotte, NC 28216

Field Work Is Coming to Your Area Soon Irwin Creek Tributary to Remount Road

CHARLOTTE



Improvement Project MARCH 2021





March 22, 2021

SUBJECT: Surveying and Field Work as Part of Upcoming Wastewater Improvement Project (Irwin Creek Tributary to Remount Road Wastewater Improvement Project)

Dear Customer:

Charlotte Water is conducting preliminary engineering work in your area for an important wastewater pipe replacement project that will expand the future capacity of the wastewater system in your area.

In late March, subcontractors for Charlotte Water will be surveying and conducting field work along the Irwin Creek tributary in the Brookhill and South End neighborhoods. This letter is to notify you that crews may be working on or near your property on one or more occasions to conduct necessary field work. including geotechnical investigations. Their activities should not inconvenience you in any way. All field crew are instructed to wear identifying clothing (i.e., companies' logo or a safety vest) to identify themselves. Temporary road and/or lane closures may be in place at times to complete this work. Motorists are advised to follow all traffic control signs around the work.

In addition to personnel, customers could see minor clearing activities in the area, survey stakes/flags, paint markings on the ground and machinery used for geotechnical borings. These borings involve drilling a hole roughly 4 inches in diameter, and upward of 30 feet deep, to determine the presence of rock in the area. In areas inaccessible for the drill rig, the refraction microtremor (ReMi) method or hand auger method will be used (see reverse side). We also ask that residents do not remove the survey stakes and flags as they are critical to completing the design of this project. A list of companies that are involved with this project is included below:

- Froehling & Robertson
- PipePro Stewart
- B.R.S., Inc. • STV
- Avioimage
- · Gulf Coast, LLC
- Frazier Engineering

This work is expected to begin in late March and take about four weeks to complete (schedules are subject to change, due to weather and other conditions). Additional information on the project can be found on Charlotte Water's website at: www.charlottewater.org, click on projects, then construction.

Habitat Assessment & Restoration Professionals (HARP)

I am your source of information for this project. Please call me at (704) 995-7489 if you have questions. If we determine that this project will have any direct impact on your property, we will notify you further as the project progresses.

Regards,

MacMcClanahan Engineering Project Manager Charlotte Water

704-995-7489 Mac.McClanahan@charlottenc.gov

Charlotte Water 5100 Brookshire Blvd, Charlotte, NC 28216 charlottewater.org

