



June 24, 2022

Mr. Michael R. Thomas, PE, LEED AP ND, PMP
Department Manager
T&M Associates
11 Tindall Road
Middletown, New Jersey 07748

**Re: Stormwater Subsurface Investigation Summary Letter
Proposed CareOne Assisted Living Facility
Block 6601, Lot 2
3641 Lawrenceville Road
Lawrence Township, Mercer County, New Jersey 08540
RPM Project #: 61-150**

Dear Mr. Thomas:

RPM Engineering LLC (RPM) performed a subsurface investigation at the above referenced site in order to investigate the soil and groundwater conditions in the location of the proposed stormwater management facilities. This Letter serves to transmit the results of our investigation.

PROJECT DESCRIPTION

According to the information provided by the Civil Engineer of Record for the project, T&M Associates (T&M), it is our understanding the project will consist of the construction of a new 3-story building, encompassing approximately 39,000 square feet (SF) in plan area. The project is also to include new stormwater management facilities associated with the new construction. The proposed stormwater management facilities are to be located below the parking areas adjacent to the new building and will likely consist of underground facilities and/or porous pavement. Based on our conversation with T&M, the proposed stormwater facilities will encompass approximately 43,000 SF, 10,000 SF, and 13,000 SF, respectively, in plan area. The proposed basin bottom elevations were not known at the time of this report.

SITE DESCRIPTION

The project is located at Block 6601, Lot 2, locally known as 3641 Lawrenceville Road, in Lawrence Township, Mercer County, New Jersey (see Attachment A, *Key Map Plan*). The project site is bordered to the southeast by Lawrenceville Road, to the northeast by Province Line Road, and on all other sides by commercial property. Topography across the site generally sloped upward from southwest to northeast, with site elevations ranging from approximately Elevation (EL) 161 feet to EL 173 feet.

The ground surface elevations for each test pit location are based on the *Existing Conditions Plan* prepared by T&M, dated May 27, 2022. Vertical elevations are referenced to the North American Vertical Datum of 1988 (NAVD88).



USDA SOIL SURVEY

We reviewed the soils mapping of the project site as provided by the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) for Mercer County, New Jersey as provided by the Web Soil Survey. The soil type mapped on the proposed project site is identified as the Quakertown silt loam (QukB), 2 to 6 percent slopes.

Quakertown silt loam soils are derived from fine loamy residuum weathered from sandstone and/or siltstone and generally range in texture from silt loam to clay loam with increasing amounts of platy rock fragments, underlain by the naturally occurring bedrock. Depth to any restrictive features and water table is noted as being more than 80 inches with no frequency of ponding or flooding. This soil generally has a moderately high to high ability to transmit water.

A plan showing the soil mapping areas in the vicinity of the site has been provided as Attachment B, *Soil Map*.

FIELD INVESTIGATION

In order to investigate the subsurface conditions in the area of the proposed stormwater facilities a subsurface investigation was performed. A total of eleven test pit locations, referenced as TP-1 through TP-11, were completed at locations requested by T&M. Six test pits were conducted within the southwestern most proposed stormwater BMP footprint, three test pits were conducted within the middle proposed stormwater BMP footprint, and two test pits were conducted within the northeastern most proposed stormwater BMP footprint. The approximate locations of the test pits are shown on the *Test Pit Location Plan* presented in Attachment C.

All test pits were excavated to bucket refusal depths ranging from approximately 3.5 feet to 9 feet below existing ground surface. Details regarding the subsurface conditions encountered, including soil descriptions using the United States Department of Agriculture (USDA) Soil Classification System, can be found within the *Test Pit Logs* attached to this Letter in Attachment D. General descriptions of the subsurface soils encountered are provided in the “Soil Descriptions” section of this report.

The test pits were backfilled using the soils excavated during the test pitting operation and compacted intermittently with the trackhoe bucket. Excess soils were mounded at the ground surface.

SOIL DESCRIPTIONS

General descriptions of the subsurface conditions encountered at the site are as follows. More detailed descriptions of each soil description using the USDA Soil Classification System can be found in the *Test Pit Logs* attached to this report.

Topsoil

A surficial layer of topsoil was encountered at the ground surface at each test pit completed and was found to range between approximately 6 inches to 18 inches in thickness. Topsoil thickness may vary within the unexplored portions of the site.



Stratum I

Stratum I was encountered below the surficial Topsoil layer at all test pit locations and generally extended to depths of approximately 1 foot to 5 feet below existing ground surface. Upon visual review, Stratum I was found to be primarily yellowish brown and generally ranged in texture from Clay Loam to Silt Loam with varying amounts of gravel. More detailed descriptions of Stratum I using the USDA Soil Classification System can be found in the *Test Pit Logs* attached to this report.

Stratum II (Highly Weathered Bedrock)

Stratum II consisted of highly weathered bedrock and was encountered below the soils of Stratum I at all test pit locations and generally extended to bucket refusal depths ranging from approximately 3.5 feet to 9 feet below the existing ground surface. Upon visual review, Stratum II was found to consist of yellow brown Clay Loam or Silt Loam with varying amounts of gravel-sized weathered bedrock fragments. The weathered bedrock fragments were generally more than 3 inches in at least one dimension and increased in frequency with depth. More detailed descriptions of the Stratum II using the USDA Soil Classification System can be found in the *Test Pit Logs* attached to this report.

BEDROCK

Weathered bedrock was encountered below Stratum II within each of the test pits completed during our investigation and was located at depths ranging between approximately 3.5 feet and 9 feet below existing ground surface. These depths correspond to site elevations ranging between approximately 156 feet to 169.7 feet. Bedrock was defined as the depth at which bucket refusal was encountered. Depths and the corresponding elevations at which bedrock was encountered are shown below:

TABLE I – Bedrock Information

Location	Bedrock Depth	Bedrock Elevation	Location	Bedrock Depth	Bedrock Elevation
TP-1	9 feet	156 feet	TP-7	6 feet	163 feet
TP-2	6.5 feet	160.5 feet	TP-8	5.5 feet	166.5 feet
TP-3	9 feet	157.5 feet	TP-9	3.5 feet	169.5 feet
TP-4	5 feet	162 feet	TP-10	4.3 feet	169.7 feet
TP-5	6 feet	160 feet	TP-11	7 feet	164 feet
TP-6	5 feet	162 feet			

More detailed information regarding the depth at which bedrock was encountered within each of the test pits can be found within the *Test Pit Logs*, attached to this report.

GROUNDWATER

Groundwater was not encountered within any stormwater test pit locations on this site. Groundwater observations were made at the time of the test pitting operation; groundwater levels should be expected to fluctuate with daily, seasonal, and climatological variations.



SEASONAL HIGH GROUNDWATER TABLE

RPM reviewed the soils encountered within the test pits for indicators of the Seasonal High Groundwater Table elevation. Areas within the soil profile that undergo submersion and subsequent drying often exhibit changes in soil colors due to the reduction of iron and manganese. Such conditions are often characterized by “depleted” soils taking on a grayish color with sandier soils, or bluish, grayish, or greenish colors in finer grained soils. The longer the saturation period, the more pronounced the reduction process, and the grayer the soil becomes. Iron precipitates are often visible within the soil as bright “high chroma” colors which may indicate the fluctuation of the water table within this particular area of the soil stratum. Blotches of gray and reddish-brown soil colors may also be found occurring at the same depth. These patterns of spots or blotches of different color, or shades of color interspersed with the dominant color, are called redoximorphic features, or soil “mottling.” These features are often indicative of the seasonal high groundwater table elevation.

Based on our field investigation and review work, indicators of the Seasonal High Groundwater (SHGW) Table were NOT observed in any stormwater boring or test pit location.

SINGLE-RING INFILTRATION TESTING

In-situ permeability testing was performed at 5 of the 11 test pit locations to determine the permeability of the subsurface soils. Based on our description of observed subsurface soil conditions at all of the test pit locations, we were directed by T&M to perform permeability testing at the five locations and depths noted below in Table II. The percentage of gravel and gravel-sized rock fragments within the subsurface soils at the remaining six locations would not permit seating of the testing equipment. All permeability tests were conducted using the Single Ring Infiltration (SRI) Test method, performed in general accordance with Subsection A5 of Chapter 12 of the New Jersey Stormwater Best Management Practices Manual (hereafter referred to as the Manual). The results of all infiltration testing, as well as seasonal high and groundwater table information, are provided below in Table II. The recorded testing rates are also included on the test pit logs.

TABLE II – Subsurface Findings and Testing Results

Test Pit Number (Location)	Surface Elevation (Feet)	Seasonal High Depth (Feet)	Groundwater Depth (Feet)	Test Depth/ Elevation (Feet)	Soil Texture	Hydraulic Conductivity (in/hr)
TP-1	165	NE	NE	3.3 / 161.7	Clay Loam	2.9
TP-3	166.5	NE	NE	2.3 / 164.2	Clay Loam	0.5
TP-7	170	NE	NE	1.5 / 168.5	Silt Loam	0.7
TP-8	172	NE	NE	1.5 / 170.5	Silt Loam	Less than 1 [0.0 in/hr]
TP-11	171	NE	NE	3.3 / 167.7	Silt Loam	0.7

N.E. indicates Not Encountered

“Less than 1” indicates test termination due to excessive time required for water to drop 1 inch. Therefore, a rate of less than 1 in/hr was reported for the corresponding test (as per the Manual). An estimate of the



hydraulic conductivity rate for the test location where this occurred has been provided in brackets for informational purposes only based on the line shown in the Single Ring Test Conversion of Observed Field Intake Rate to Hydraulic Conductivity chart provided in Subsection A5 of the Manual. The bracketed rate should be not considered valid for design purposes.

CLIENT REQUESTED WEATHERED ROCK PERMEABILITY TESTING

In addition to the SRI testing discussed above, the client requested informal permeability testing on the surface of the weathered bedrock at each test pit location. The testing was for informational purposes only and was NOT performed in accordance with any state approved guidance documents or generally accepted industry procedures. A total of 11 tests were performed by pouring 10-gallons of water on the exposed weathered bedrock surface and recording the time for the water to drain. Our observations during these informal tests suggest the bedrock may have a permeability rate of more than 0.5 in/hr, except for test pits TP-2 and TP-3, which were less than 0.5 in/hr. The amount of water drop observed for each informal test location has been provided in the Remarks section of each test pit log.

CLOSING

We trust this is the information you require. Should you have any questions regarding this information or if we may be of further assistance with this matter, please contact us.

Respectfully,

A handwritten signature in black ink that reads "Alex Redcay".

Alex Redcay
Geotechnical Engineer

A handwritten signature in blue ink that reads "Robert L. Jost".

Robert L. Jost, PE
Senior Project Engineer
NJ License #51609

A handwritten signature in black ink that reads "Anthony J. Digneo".

Anthony J. Digneo, PG, LEED AP
Director of Geotechnical Services



PROJECT:

DRAWING TITLE

DRAWING SHEET

**STORMWATER INVESTIGATION
 CAREONE ASSISTED LIVING FACILITY
 3641 LAWRENCEVILLE-PRINCETON ROAD
 LAWRENCE TOWNSHIP, MERCER
 COUNTY, NEW JERSEY**

**KEY MAP
 PLAN**

**ATTACHMENT
 'A'**





PROJECT:

**STORMWATER INVESTIGATION
 CAREONE ASSISTED LIVING FACILITY
 3641 LAWRENCEVILLE-PRINCETON ROAD
 LAWRENCE TOWNSHIP, MERCER
 COUNTY, NEW JERSEY**

MAP UNIT LEGEND:

UNIT SYMBOL:	UNIT NAME:
QukB	QUAKERTOWN SILT LOAM, 2% TO 6% SLOPES

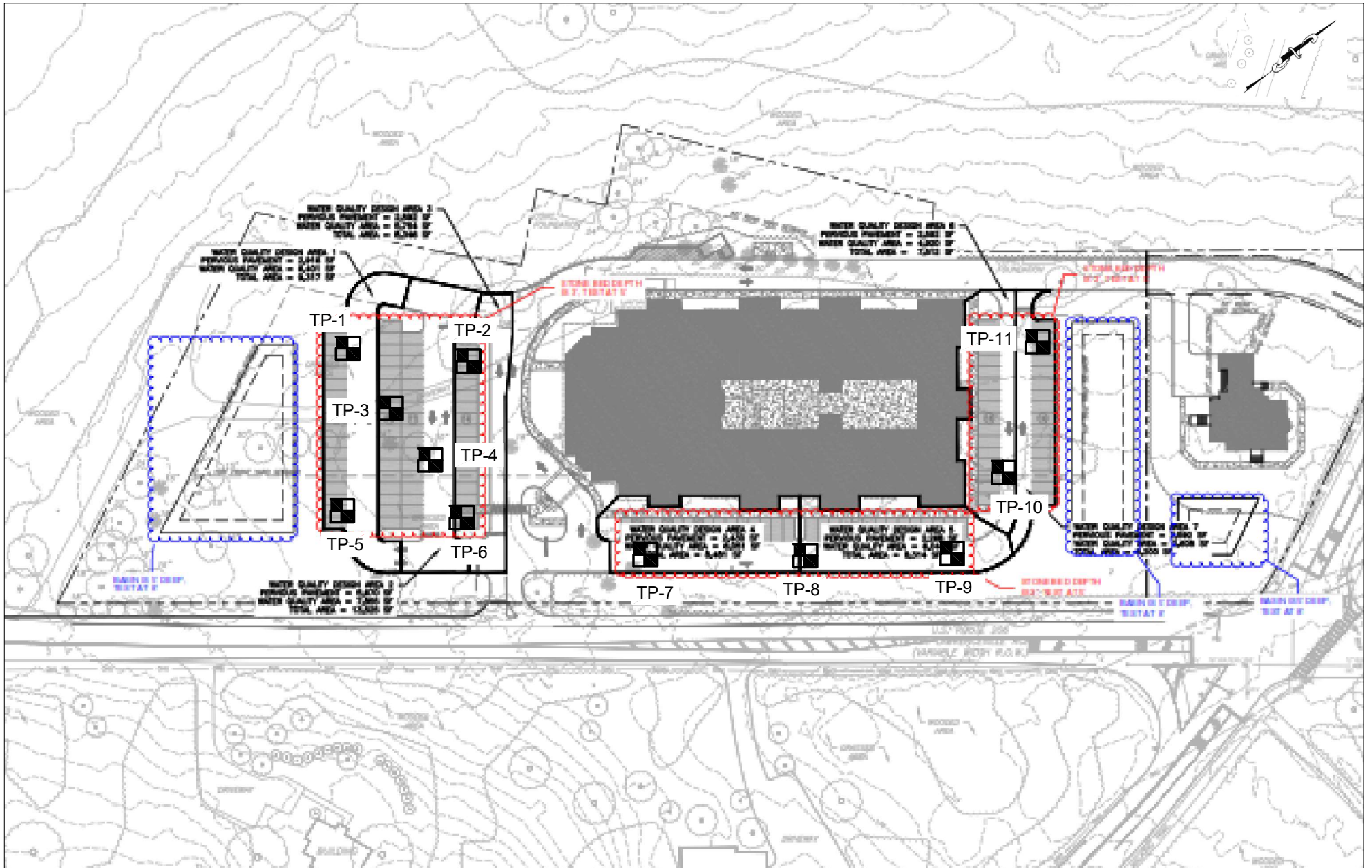
DRAWING TITLE

SOIL MAP

DRAWING SHEET

**ATTACHMENT
 'B'**





PROJECT:
**STORMWATER INVESTIGATION
 CAREONE ASSISTED LIVING FACILITY
 3641 LAWRENCEVILLE-PRINCETON ROAD
 LAWRENCE TOWNSHIP, MERCER
 COUNTY, NEW JERSEY**

DRAWING TITLE
**TEST PIT
 LOCATION PLAN**

DRAWING SHEET
**ATTACHMENT
 'C'**



APPROXIMATE STORMWATER TEST PIT LOCATION



TEST PIT LOG

Project: Care One Lawrenceville Stormwater

Client: T&M Associates

Date Completed: 5/3/2022

Job Number: 61-150

Location: See Test Pit Location Plan

Test Pit Number: TP-1

GS Elevation (ft): 165

SHGW Depth (ft): NE

Groundwater Depth (ft): NE

Topo Est: X **Field Survey:**

Depth (ft)	Soil Description	Remarks
1	0' - 1.5' Dark yellowish brown (10YR 3/4) SILT LOAM, loose	Topsoil
2	1.5' - 5' Yellowish brown (10YR 5/4) CLAY LOAM, friable, 15% Rock Fragments <u>Single Ring Infiltration Test @ 3.3'</u> <hr style="border-top: 1px dashed blue;"/>	Stratum I
3		<u>2.9 in/hr</u>
4		
5		
6		5' - 9' Yellowish brown (10YR 5/4) CLAY LOAM, 40% Weathered bedrock fragments of 3 inches or greater
7	- Grading to predominantly bedrock fragments <u>10 Gallons of water poured on bedrock exposed at bottom of test pit</u>	
8		
9		<u>0.25" drop in 1 minute</u>
10		END OF TEST PIT @ 9 FT (BUCKET REFUSAL)
11		
12		
13		
14		
15		



297 Westwood Drive, West Deptford, NJ 08096

Excavator: Heritage Contractors
Excavation Method: Tracked Excavator
RPM Representative: Antonio Digneo
Log Completed By: Antonio Digneo
Sheet: 1 of 1

TEST PIT LOG

Project: Care One Lawrenceville Stormwater

Client: T&M Associates

Date Completed: 5/3/2022

Job Number: 61-150

Location: See Test Pit Location Plan

Test Pit Number: TP-2

GS Elevation (ft): 167

SHGW Depth (ft): NE

Groundwater Depth (ft): NE

Topo Est: X **Field Survey:**

Depth (ft)	Soil Description	Remarks
1	0' - 1.5' Brown (10YR 4/3) SILTY CLAY LOAM, loose	Topsoil
2	1.5' - 3' Yellowish brown (10YR 5/6) SILT LOAM, friable, 5% Rock Fragments	Stratum I
3		
4	3' - 6.5' Yellowish brown (10YR 5/6) SILT LOAM, 40% Weathered bedrock fragments of 3 inches or greater - Grading to predominantly bedrock fragments 10 Gallons of water poured on bedrock exposed at bottom of test pit	Stratum II 0.25" drop in 1 hour
5		
6		
7		
8	END OF TEST PIT @ 6.5 FT (BUCKET REFUSAL)	
9		
10		
11		
12		
13		
14		
15		



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Excavation Method: Tracked Excavator
RPM Representative: Antonio Digneo
Log Completed By: Antonio Digneo
Sheet: 1 of 1

TEST PIT LOG

Project: Care One Lawrenceville Stormwater

Client: T&M Associates

Date Completed: 5/3/2022

Job Number: 61-150

Location: See Test Pit Location Plan

Test Pit Number: TP-3

GS Elevation (ft): 166.5

SHGW Depth (ft): NE

Groundwater Depth (ft): NE

Topo Est: X **Field Survey:**

Depth (ft)	Soil Description	Remarks
1	0' - 1' Brown (10YR 4/3) SILTY CLAY LOAM, loose	Topsoil
2	1' - 3' Yellowish brown (10YR 5/4) CLAY LOAM, friable, 5% Rock Fragments	Stratum I
3	Single Ring Infiltration Test @ 2.3'	0.5 in/hr
4	3' - 9' Yellowish brown (10YR 5/4) CLAY LOAM, 40% Weathered bedrock fragments of 3 inches or greater - Grading to predominantly bedrock fragments	Stratum II
5		
6		
7		
8		
9	10 Gallons of water poured on bedrock exposed at bottom of test pit	0.25" drop in 1 hour
10	END OF TEST PIT @ 9 FT (BUCKET REFUSAL)	
11		
12		
13		
14		
15		



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Excavation Method: Tracked Excavator
RPM Representative: Antonio Digneo
Log Completed By: Antonio Digneo
Sheet: 1 of 1

TEST PIT LOG

Project: Care One Lawrenceville Stormwater

Client: T&M Associates

Date Completed: 5/3/2022

Job Number: 61-150

Location: See Test Pit Location Plan

Test Pit Number: TP-4

GS Elevation (ft): 167

SHGW Depth (ft): NE

Groundwater Depth (ft): NE

Topo Est: X **Field Survey:**

Depth (ft)	Soil Description	Remarks
1	0' - 1' Very dark brown (7.5YR 2.5/2) SILTY CLAY LOAM, loose	Topsoil
2	1' - 3' Yellowish brown (10YR 5/6) CLAY LOAM, friable, 10% Rock Fragments	Stratum I
3		
4	3' - 5' Yellowish brown (10YR 5/6) CLAY LOAM, 40% Weathered bedrock fragments of 3 inches or greater	Stratum II
5		
	10 Gallons of water poured on bedrock exposed at bottom of test pit	0.25" drop in 6 minutes
6	END OF TEST PIT @ 5 FT (BUCKET REFUSAL)	
7		
8		
9		
10		
11		
12		
13		
14		
15		



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Excavator: Heritage Contractors

Excavation Method: Tracked Excavator

RPM Representative: Antonio Digneo

Log Completed By: Antonio Digneo

Sheet: 1 of 1

TEST PIT LOG

Project: Care One Lawrenceville Stormwater

Client: T&M Associates

Date Completed: 5/3/2022

Job Number: 61-150

Location: See Test Pit Location Plan

Test Pit Number: TP-5

GS Elevation (ft): 166

SHGW Depth (ft): NE

Groundwater Depth (ft): NE

Topo Est: X **Field Survey:**

Depth (ft)	Soil Description	Remarks
1	0' - 0.8' Dark yellowish brown (10YR 3/4) SILTY CLAY LOAM, loose	Topsoil
2	0.8' - 1.5' Yellowish brown (10YR 5/6) SILT LOAM, friable, 10% Rock Fragments	Stratum I
3	1.5' - 6' Yellowish brown (10YR 5/6) CLAY LOAM, 40% Weathered bedrock fragments of 3 inches or greater	Stratum II
4		
5		
6		
6		
7	END OF TEST PIT @ 6 FT (BUCKET REFUSAL)	
8		
9		
10		
11		
12		
13		
14		
15		



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Excavation Method: Tracked Excavator
RPM Representative: Antonio Digneo
Log Completed By: Antonio Digneo
Sheet: 1 of 1

TEST PIT LOG

Project: Care One Lawrenceville Stormwater

Client: T&M Associates

Date Completed: 5/3/2022

Job Number: 61-150

Location: See Test Pit Location Plan

Test Pit Number: TP-6

GS Elevation (ft): 167

SHGW Depth (ft): NE

Groundwater Depth (ft): NE

Topo Est: X **Field Survey:**

Depth (ft)	Soil Description	Remarks
1	0' - 1' Very dark brown (10YR 2/2) SILT LOAM, loose	Topsoil
2	1' - 3' Yellowish brown (10YR 5/6) SILT LOAM, friable, 10% Rock Fragments	Stratum I
3		
4	3' - 5' Yellowish brown (10YR 5/6) CLAY LOAM, 40% Weathered bedrock fragments of 3 inches or greater - Grading to predominantly bedrock fragments 10 Gallons of water poured on bedrock exposed at bottom of test pit	Stratum II
5		1.5" drop in 10 minutes
6		END OF TEST PIT @ 5 FT (BUCKET REFUSAL)
7		
8		
9		
10		
11		
12		
13		
14		
15		



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Excavator: Heritage Contractors
Excavation Method: Tracked Excavator
RPM Representative: Antonio Digneo
Log Completed By: Antonio Digneo
Sheet: 1 of 1

TEST PIT LOG

Project: Care One Lawrenceville Stormwater

Client: T&M Associates

Date Completed: 5/3/2022

Job Number: 61-150

Location: See Test Pit Location Plan

Test Pit Number: TP-7

GS Elevation (ft): 170

SHGW Depth (ft): NE

Groundwater Depth (ft): NE

Topo Est: X **Field Survey:**

Depth (ft)	Soil Description	Remarks
1	0' - 1' Brown (10YR 4/3) SILTY CLAY LOAM, loose	Topsoil
2	1' - 3' Yellowish brown (10YR 5/4) SILT LOAM, 5% Rock Fragments, friable	0.7 in/hr Stratum I
3	----- Single Ring Infiltration Test @ 1.5'	
4	3' - 6' Yellowish brown (10YR 5/4) CLAY LOAM, 40% Weathered bedrock fragments of 3 inches or greater	
5	- Grading to predominantly bedrock fragments	Stratum II 0.25" drop in 5 minutes
6	10 Gallons of water poured on bedrock exposed at bottom of test pit	
7	END OF TEST PIT @ 6 FT (BUCKET REFUSAL)	
8		
9		
10		
11		
12		
13		
14		
15		



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Excavator: Heritage Contractors
Excavation Method: Tracked Excavator
RPM Representative: Antonio Digneo
Log Completed By: Antonio Digneo
Sheet: 1 of 1

TEST PIT LOG

Project: Care One Lawrenceville Stormwater

Client: T&M Associates

Date Completed: 5/3/2022

Job Number: 61-150

Location: See Test Pit Location Plan

Test Pit Number: TP-8

GS Elevation (ft): 172

SHGW Depth (ft): NE

Groundwater Depth (ft): NE

Topo Est: X **Field Survey:**

Depth (ft)	Soil Description	Remarks
1	0' - 1' Dark yellowish brown (10YR 3/4) SILTY CLAY LOAM, loose	Topsoil
2	1' - 4' Yellowish brown (10YR 5/6) SILT LOAM, friable, 15% Rock Fragments <hr style="border-top: 1px dashed blue;"/> Single Ring Infiltration Test @ 1.5'	Less than 1 [0 in/hr]
3		Stratum I
4		
5	4' - 5.5' Yellowish brown (10YR 5/6) CLAY LOAM, 40% Weathered bedrock fragments of 3 inches or greater - Grading to predominantly bedrock fragments	Stratum II
6	10 Gallons of water poured on bedrock exposed at bottom of test pit	1" drop in 9 minutes
7	END OF TEST PIT @ 5.5 FT (BUCKET REFUSAL)	
8		
9		
10		
11		
12		
13		
14		
15		



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RPM Representative: Antonio Digneo
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Sheet: 1 of 1

TEST PIT LOG

Project: Care One Lawrenceville Stormwater

Client: T&M Associates

Date Completed: 5/3/2022

Job Number: 61-150

Location: See Test Pit Location Plan

Test Pit Number: TP-10

GS Elevation (ft): 174

SHGW Depth (ft): NE

Groundwater Depth (ft): NE

Topo Est: X **Field Survey:**

Depth (ft)	Soil Description	Remarks
1	0' - 0.8' Dark yellowish brown (10YR 3/4) SILT LOAM, loose	Topsoil
2	0.8' - 1.5' Yellowish brown (10YR 5/4) SILT LOAM, friable, 20% Rock Fragments	Stratum I
3	1.5' - 4.3' Yellowish brown (10YR 5/4) CLAY LOAM, 40% Weathered bedrock fragments of 3 inches or greater	Stratum II
4	- Grading to predominantly bedrock fragments	
5	10 Gallons of water poured on bedrock exposed at bottom of test pit	
6	END OF TEST PIT @ 4.3 FT (BUCKET REFUSAL)	
7		
8		
9		
10		
11		
12		
13		
14		
15		



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Excavation Method: Tracked Excavator
RPM Representative: Antonio Digneo
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Sheet: 1 of 1

TEST PIT LOG

Project: Care One Lawrenceville Stormwater

Client: T&M Associates

Date Completed: 5/3/2022

Job Number: 61-150

Location: See Test Pit Location Plan

Test Pit Number: TP-11

GS Elevation (ft): 171

SHGW Depth (ft): NE

Groundwater Depth (ft): NE

Topo Est: X **Field Survey:**

Depth (ft)	Soil Description	Remarks
1	0' - 1' Dark yellowish brown (10YR 3/4) SILT LOAM, loose	Topsoil
2	1' - 4' Yellowish brown (10YR 5/4) SILT LOAM, friable, 5% Rock Fragments <u>Single Ring Infiltration Test @ 3.3'</u>	Stratum I <u>0.7 in/hr</u>
3		
4		
5	4' - 7' Yellowish brown (10YR 5/4) CLAY LOAM, 40% Weathered bedrock fragments of 3 inches or greater - Grading to predominantly bedrock fragments <u>10 Gallons of water poured on bedrock exposed at bottom of test pit</u>	Stratum II <u>0.5" drop in 10 minutes</u>
6		
7		
8		
9	END OF TEST PIT @ 7 FT (BUCKET REFUSAL)	
10		
11		
12		
13		
14		
15		



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Sheet: 1 of 1