REPORT OF PRELIMINARY GEOTECHNICAL AND STORMWATER BASIN AREA INVESTIGATION

PROPOSED INDUSTRIAL WAREHOUSE

2615 US Route 9 West

Section 9; Block 1, Lot 25.22 Town of Cornwall, Orange County, New York

Prepared for:

CORNWALL LOGISTICS, LLC c/o TREETOP DEVELOPMENT, LLC

500 Frank W Burr Boulevard # 47 Teaneck, New Jersey 07666

Prepared by:

D

DYNAMIC EARTH

245 Main Street, Suite 110 Chester, New Jersey 07930

Patrick J. Granitzki, P.E. Senior Principal

NY PE License No. 99342

Francis Van Cleve Principal

Project No.: 2803-99-012E January 4, 2023

REPORT OF PRELIMINARY GEOTECHNICAL AND STORMWATER BASIN AREA INVESTIGATION

Proposed Industrial Warehouse 2615 US Route 9 West Section 9; Block 1, Lot 25.22 Town of Cornwall, Orange County, New York

TABLE OF CONTENTS

1.0	EXECUTIVE SUMMARY	1
2.0	PROJECT DETAILS	1
2.0	FROJECT DETAILS	1
3.0	SCOPE OF SERVICES	3
3.1	Field Investigation	3
3.2	Laboratory Testing	6
4.0	SUMMARY OF SUBSURFACE CONDITIONS	8
4.1	Site Geology	8
4.2	United States Department of Agriculture (USDA) Soil Survey	8
4.3	Subsurface Soil Profile	9
4.4	Seasonal High Groundwater and Groundwater	10
5.0	PRELIMINARY CONCLUSIONS AND RECOMMENDATIONS	11
5.1	General	11
5.2	Preliminary Shallow Foundation Design Recommendations	11
5.3	Preliminary Floor Slab Recommendations	13
5.4	Preliminary Pavement Recommendations	13
5.5	Preliminary Groundwater Considerations	14
5.6	Preliminary Earthwork Considerations	14
5.7	Retaining Walls and Lateral Earth Pressure Recommendations	18
5.8	Temporary Excavations	20
5.9	Preliminary Seismic and Liquefaction Considerations	20
5.10	Seasonal High Groundwater and Infiltration	20
5.11	Supplemental Evaluation and Investigation	22
6.0	GENERAL COMMENTS AND LIMITATIONS	23

i

REPORT OF PRELIMINARY GEOTECHNICAL AND STORMWATER BASIN AREA INVESTIGATION

Proposed Industrial Warehouse 2615 US Route 9 West Section 9; Block 1, Lot 25.22 Town of Cornwall, Orange County, New York

TABLE OF CONTENTS (continued)

APPENDICES

Test Location Plan
Records of Subsurface Exploration
Laboratory Test Results
USDA-NRCS Custom Soil Resource Report – Orange County, NY
Geotechnical Terms and Symbols
USCS Standard Classification System

1.0 EXECUTIVE SUMMARY

Dynamic Earth, LLC (Dynamic Earth) has completed a preliminary geotechnical investigation at the subject site. The subsurface conditions encountered as part of this investigation included natural glacial till deposits underlain by weathered rock/rock. Based on the subsurface conditions encountered, conventional shallow foundations and ground supported floor slabs bearing within approved subgrade materials are expected to be suitable for the proposed site development. Due to the moisture sensitivity of on-site soils, at least partial overexcavation and replacement and/or subgrade stabilization should be anticipated within proposed pavement and floor slab areas. In addition, due to the cobbles/boulders and underlying weathered rock/rock encountered as part of this investigation, difficult excavation should be anticipated, particularly where existing site elevations are lowered as part of the site grading.

The scope of our subsurface investigation also included performing soil profile pits and in-situ infiltration testing at the site within the area of anticipated stormwater management facilities. Detailed results of the stormwater management investigation are included herein.

2.0 PROJECT DETAILS

The subject site is located at 2615 US Route 9 West in the Town of Cornwall, Orange County, New York and is further identified as Section 9; Block 1, Lot 25.22. The subject site is bounded to the north by Moodna Creek with Forge Hill Road beyond; to the east by US Route 9 West with commercial properties beyond; to the south by residential properties; and to the west by Moodna Creek with residential properties beyond. The site of the proposed construction is shown on the attached *Test Location Plan* in the Appendix of this report.

At the time of our investigation, the subject site was undeveloped and wooded. Based on a December 13, 2022 *Overall Grading Plan* prepared by our affiliate company, Dynamic Engineering Consultants, PC (Dynamic), the proposed site development will include construction of five warehouse buildings occupying a total footprint area of approximately 1.725 million square feet, as described below:

- ➤ Building A (Northwestern Portion of Site): Proposed Building A will occupy a footprint area of 362,094 square feet and have a preliminary finished floor elevation of approximately 223.0 feet. Earth cuts on the order of seven feet are proposed within the southwestern portion of the building footprint, and earth fills on the order of 18 feet are proposed within the northeastern portion of the building.
- > Building B (Western Portion of Site): Proposed Building B will occupy a footprint area of

- 145,281 square feet and have a preliminary finished floor elevation of approximately 230.0 feet. Earth cuts on the order of one foot are proposed within the western portion of the building footprint and earth cuts on the order of four feet are proposed within the eastern portion of the building;
- ➤ Building C (Northeastern Portion of Site): Proposed Building C will occupy a footprint area of 752,943 square feet and have a preliminary finished floor elevation of approximately 194.0 feet. Earth cuts on the order of 12 foot are proposed within the southwestern portion of the building footprint, and earth fills on the order of up to 30 feet are proposed within the eastern portion of the building;
- ➤ Building D (Southern Portion of Site): Proposed Building D will occupy a footprint area of 273,495 square feet and have a preliminary finished floor elevation of approximately 230.0 feet. Earth cuts on the order of eight foot are proposed within the central portion of the building footprint, and earth fills on the order of up to 10 feet are proposed within the southern portion of the building.
- ➤ Building E (Southeastern Portion of Site): Proposed Building E will occupy a footprint area of 191,663 square feet and have a preliminary finished floor elevation of approximately 204.5 feet. Earth cuts on the order of six feet are proposed within the eastern portion of the building footprint, and earth fills on the order of up to 25 feet are proposed within the southern portion of the building.
- ➤ Pavement Areas: Proposed parking areas and roadways will be located throughout the site (surrounding the buildings) and an access road connecting to Route 9W will be located within the eastern portion of the overall site. The majority of proposed pavement areas will include earth cuts and fills on the order of five to ten feet; however relatively deeper earth cuts on the order of 20 to 25 feet will be required within the central portion of the site, and large earth fills up to approximately 50 feet are anticipated within proposed pavement/roadway areas within the eastern portion of the overall site.

Earth retaining wall structures are proposed throughout the site that will typically have maximum exposed wall heights on the order of 20 to 30 feet. In addition, proposed stormwater management basins are proposed at various locations throughout the site.

Existing site conditions and topographic information were provided on a May 18, 2021 *Wetlands Map* prepared by Lanc & Tully Engineering and Surveying. The existing topography at the site includes several hills within the southern portion of the property; with local peaks typically ranging in elevation between approximately 230.0 feet and 244.0 feet. Existing site grades generally slope downward towards the north and east; reaching low elevations of approximately 136.0 feet near the northern and eastern property boundaries.

The final structural loads have not been developed at this time. Based on our experience with similar facilities, we assume that the maximum loads will be less than the following:

- > Axial Column Loads 120 kips;
- ➤ Wall Loads 3.0 kips per linear foot;
- > Floor Slab Loads 600 pounds per square feet;
- ▶ Light Duty Pavement 60,000 Equivalent Single Axle Loads (ESAL's); and
- ➤ Heavy Duty Pavement 1,700,000 Equivalent Single Axle Loads (ESAL's)

3.0 SCOPE OF SERVICES

3.1 Field Investigation

Field exploration of the project site was conducted by means of 20 soil borings (identified as Borings B-1 through B-19 and offset Boring B-7A); seven rock probes (identified as P-1 through P-7); a total of 63 soil profile pits (identified as SPP-1 through SPP-25 and SPP-101 through SPP-138); and 59 corresponding in-situ infiltration tests (identified as PT-1 through PT-138, excluding PT-119, PT-120, PT-123, and PT-134). The borings and rock probes were drilled with an all-terrain-vehicle (ATV) mounted drill rig and the soil profile pits were performed using a track-mounted excavator. Prior to drilling the borings/probes and excavating soil profile pits, the track-mounted excavator was used to clear vegetation/trees to provide access to the test locations. The test locations are shown on the accompanying *Test Location Plan* in the Appendix of this report.

TEST LOCATION SUMMARY									
Number	Proposed Location	Final Depth (feet)							
B-1		11.5 ²							
B-2	Warehouse Building D	20.5 1							
B-3	7	15.5 ²							
B-4		6.2 ²							
B-5	Warehouse Building E	8.3 ²							
B-6	7	20.0 ²							
B-7	Warehouse Building B	2.2 ²							
B-7A	Wateriouse building b	13.5 ²							
B-8	Warehouse Building A	20.1 ²							
B-9	Warehouse Building B	9.5 ²							
B-10	Wasalawaa Duildina A	4.4 ²							
B-11	Warehouse Building A	7.8 ²							
B-12		17.0 ²							
B-13	Pavement/West of Warehouse Building C	25.0 ¹							
B-14	7	20.8 2							
B-15	Warehouse Building C	22.0							

TEST LOCATION SUMMARY								
Number	Proposed Location	Final Depth (feet)						
B-16	East of Warehouse Building C	22.0						
B-17	Warehouse Building C	25.8 ²						
B-18	Northeastern Stormwater Basin Area	19.0 ¹						
B-19	Northeastern Stormwater Basin Area	27.0 1						
P-1	Warshouse Dwilding D	50.0						
P-2	Warehouse Building B	50.0						
P-3	Wasahasaa Duilding D	50.0						
P-4	— Warehouse Building D	50.0						
P-5	Washawa Duilding E	50.0						
P-6	Warehouse Building E	50.0						
P-7	Warehouse Building C	22.0 25.8 ² 19.0 ¹ 27.0 ¹ 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.						
SPP-1/PT-1	D. (10)	9.8 ²						
SPP-2/PT-2	Potential Stormwater Management Area –	6.7 ²						
SPP-3/PT-3	Southern Portion of Site	9.2 ²						
SPP-4/PT-4		11.0						
SPP-5/PT-5	7	12.3						
SPP-6/PT-6	7	11.5						
SPP-7/PT-7	-	12.2						
SPP-8/PT-8	Potential Stormwater Management Area –	7.5 ²						
SPP-9/PT-9	Western Portion of Site	11.7 ²						
SPP-10/PT-10	7	10.8 ²						
SPP-11/PT-11	7	8.8 2						
SPP-12/PT-12		10.8						
SPP-13/PT-13	Potential Stormwater Management Area –	8.2						
SPP-14/PT-14	Central Portion of Site	11.3						
SPP-15/PT-15		11.2						
SPP-16/PT-16	Potential Stormwater Management Area –	8.0 ²						
SPP-17/PT-17	Southern Portion of Site	11.5						
SPP-18/PT-18		10.7						
SPP-19/PT-19	Potential Stormwater Management Area –	9.9						
SPP-20/PT-20	Northern Portion of Site	14.5 ²						
SPP-21/PT-21	7	11.2						
SPP-22/PT-22		11.2						
SPP-23/PT-23	Potential Stormwater Management Area –	13.0						
SPP-24/PT-24	Eastern Portion of Site	11.5						
SPP-25/PT-25	 							
SPP-101/PT-101	+							
SPP-102/PT-102	Potential Stormwater Management Area –	5.0 ²						
SPP-103/PT-103	Southern Portion of Site	3.5 ²						

4

TEST LOCATION SUMMARY									
Number	Proposed Location	Final Depth (feet)							
SPP-104/PT-104		9.3 ²							
SPP-105/PT-105	7	3.0 ²							
SPP-106/PT-106	7	3.0 ²							
SPP-107/PT-107	7	2.5 ²							
SPP-108/PT-108	7	4.0 ²							
SPP-109/PT-109	Detection Comments of Management Asses	4.5 ²							
SPP-110/PT-110	Potential Stormwater Management Area – Central Portion of Site	4.5 ²							
SPP-111/PT-111	— Central Fortion of Site	4.2 ²							
SPP-112/PT-112	Potential Stormwater Management Area –	6.0 ²							
SPP-113/PT-113	Central Portion of Site	7.0 ²							
SPP-114/PT-114		7.0 ²							
SPP-115/PT-115		11.0							
SPP-116/PT-116	Potential Stormwater Management Area – Northwestern Portion of Site	11.0							
SPP-117/PT-117	Northwestern Portion of Site	12.0							
SPP-118/PT-118	7	8.5 ²							
SPP-119/PT-119		4.5 ²							
SPP-120/PT-120	7	8.5 ²							
SPP-121/PT-121	7	8.0 ²							
SPP-122/PT-122	7	7.0 ²							
SPP-123/PT-123	Potential Stormwater Management Area –	4.9 ²							
SPP-124/PT-124	Northeastern Portion of Site	11.0							
SPP-125/PT-125	7	10.1							
SPP-126/PT-126	7	11.3							
SPP-127/PT-127	7	12.0							
SPP-128/PT-128	7	13.2 ²							
SPP-129/PT-129		7.0 ²							
SPP-130/PT-130	7	11.0							
SPP-131/PT-131	7	10.8							
SPP-132/PT-132	7	11.1							
SPP-133/PT-133	Potential Stormwater Management Area –	10.8							
SPP-134/PT-134	Eastern Portion of Site	8.3 ²							
SPP-135/PT-135	-	9.0 ²							
SPP-136/PT-136	-	12.0							
SPP-137/PT-137	-	12.0							
SPP-138/PT-138	-	12.0							

¹ Rock coring was performed

²Refusal on underlying weathered rock/boulders

The soil borings, soil profile pits, rock probes and in-situ infiltration tests were completed in the presence of a Dynamic Earth engineer who performed field tests, recorded visual classifications, and collected samples of the various strata encountered. The test locations were located in the field using conventional taping procedures and/or a handheld GPS device, and are presumed to be accurate within several feet of the location plotted on the plans.

Soil borings and standard penetration tests (SPTs) were conducted in general accordance with ASTM D5783 (Standard Guide for Use of Direct Rotary Drilling with water based drilling fluid for Geoenvironmental Exploration and the installation of subsurface water quality monitoring devices) and ASTM D1586 (Standard Test Method for Standard Penetration Test and Split Barrel Sampling of Soils), respectively. Unconfined compressive strength (Q_p) values were assessed with a pocket penetrometer within the fine-grained soils. The N-value and/or unconfined compressive strength for various soil types can be correlated with engineering behavior of soils to develop foundation and earthwork recommendations.

Rock cores were obtained using a diamond bit core barrel in accordance with ASTM designation D 2113 (*Standard Practice for Rock Core Drilling and Sampling of Rock for Site Exploration*). Rock Quality Designations (RQD's) were determined in accordance with ASTM D 6032 (*Standard Test Method for Determining Rock Quality Designation (RQD) of Rock* Core) and are provided on the boring logs within the appendix of this report. RQD is defined as the sum of the length of core fragments four inches or greater between natural breaks divided by the length of the core run and is expressed as a percentage. RQD is an indication of the relative frequency of jointing or natural fracturing of the bedrock.

The soils encountered within the area of the proposed/anticipated stormwater management facilities were classified using the United States Department of Agriculture (USDA) Classification System and observations were made for groundwater and/or soil mottling and mineral deposits potentially indicative of zones of saturation or seasonal high groundwater.

In-situ infiltration testing was performed at soil profile pit locations in general accordance with the January *New York State Stormwater Management Design Manual 2015 – Appendix D: Infiltration Testing.* Detailed results of the infiltration testing are included herein.

Groundwater level observations were recorded during and at the completion of field operations prior to backfilling the borings. Seasonal variations, temperature, anthropogenic, seasonality, soil permeability, and precipitation will influence the actual and observed groundwater levels. Groundwater elevations derived from sources other than seasonally observed groundwater monitoring wells may not be representative of true groundwater levels.

3.2 Laboratory Testing

Physical/Textural Analysis: Each sample was visually classified in general accordance with the visual-manual method (ASTM D2488). In addition, representative samples of selected strata encountered were subjected to a laboratory testing program which included moisture content determinations (ASTM D2216), Atterberg limits (ASTM D4318), and washed gradation analyses (ASTM D422) in order to perform supplementary engineering soil classifications in general accordance with ASTM D2487. The soil strata tested were classified by the Unified Soil Classification System (USCS) and results of the laboratory testing are summarized in the following table.

	SUMMARY OF LABORATORY TEST RESULTS													
Boring	Sample No.	Depth (feet)	Moisture Content (%)	Liquid Limit	Plasticity Index	Percent Passing No. 200 (%)	USCS Classification							
B-1	S-5	8-10	10.4	Not	Tested	38	SC							
B-2	S-1	0-2	26.2	Not	Tested	56	CL							
B-3	S-2	2-4	11.1	28	11	37	CL							
B-12	S-5	8-10	9.3	25	10	46	SC							
B-13	S-4	6-8	9.2	25	10	44	SC							
B-14	S-2	2-4	9.6	Not	Tested	20	SM							
B-15	S-4	6-8	5.6	Not	Tested	9	SW-SM							
B-16	S-7	15-17	6.8	Not	Tested	11	GP-GM							
B-17	S-2	2-4	10.3	23	23 9		SC							
B-18	S-6	10-12	11.1	Not	Tested	13	SM							
B-19	S-3	4-6	10.5	Not	Tested	16	GC							

The engineering classifications are useful when considered in conjunction with the additional site data to estimate other properties of the soil types encountered and to predict the soil's behavior under construction and service loads.

4.0 SUMMARY OF SUBSURFACE CONDITIONS

4.1 Site Geology

The geologic site setting includes the Manhattan Prong Physiographic Province of New York. Specifically, the site is underlain by Quaternary Aged Glacial and Alluvial Deposits that is reported to be underlain by bedrock of unknown origin. The glacial till deposits reportedly include heterogeneous deposits of sand, silt, clay and cobble/boulder-sized fragments. Graywacke and shale bedrock are mapped underlying a relatively small area within the southeastern portion of the site.

4.2 United States Department of Agriculture (USDA) Soil Survey

Based on a review of the United States Department of Agriculture – Natural Resources Conservation Services (USDA-NRCS) soil survey, the soil resources mapped within the area of subject site are described below.

Bath-Nassau channery silt loams, 3 to 8 percent slope (BnB): This soil series is mapped within the eastern portions of the site. The typical soil profile (as reported in the soil survey) generally consists of channery silt loam to a depth of 29 inches; very channery silt loam to a depth of 53 inches; underlain by unweathered bedrock to a depth of 57 inches below the natural ground surface (limit of the report). Groundwater is reported to be between 24 to 30 inches below the natural ground surface.

Erie gravelly silt loam, 0 to 3 percent slope (ErA): This soil series is mapped within a relatively small area within the northeast portion of the site. The typical soil profile (as reported in the soil survey) generally consists of gravelly silt loam to a depth of ten inches; underlain by channery silt loam to a depth of 70 inches below the natural ground surface (limit of the report). Groundwater is reported to be approximately between six to 18 inches below the natural ground surface.

Mardin gravelly silt loam, 3 to 8 percent slope (MdB): This soil series is mapped within the central portion of the site (covering majority of the site). The typical soil profile (as reported in the soil survey) generally consists of gravelly silt loam to a depth of 72 inches below the natural ground surface. (limit of the report). Groundwater is reported to be approximately 13 to 24 inches below the natural ground surface.

Mardin soils, steep (MNE): This soil series is mapped within a small area within the northeastern and western portions of the site, near the edge of the property. The typical soil profile (as reported in the soil survey) generally consists of gravelly silt loam to a depth of 72 inches below the natural

ground surface (limit of the report). Groundwater is reported to be approximately between 13 to 24 inches below the natural ground surface.

Swartswood and Mardin soils, sloping, very stony (SXC): This soil series is mapped within the northern portion of the site. The typical soil profile (as reported in the soil survey) generally consists of gravelly loam to a depth of three inches; underlain by gravelly fine sandy loam to a depth of 60 inches below the natural ground surface (limit of the report). Groundwater is reported to be between 23 to 31 inches below the natural ground surface.

Udifluvents-Fluvaquents complex, frequently flooded (UF): This soil series is mapped within a relatively small area within the western portion of the site. The typical soil profile generally consists of very gravelly loam to a depth of four inches; underlain by very gravelly sand to a depth of 70 inches below the ground surface (limit of the report). Groundwater is reported to be approximately between 24 to 72 inches below the natural ground surface.

Water (W): This soil series is mapped within a relatively small area within the eastern portion of the site. The typical soil profile (as reported in the soil survey) generally consists of water.

4.3 Subsurface Soil Profile

Details of the subsurface materials encountered are presented on the *Records of Subsurface Exploration* presented in the Appendix of this report. The subsurface soil conditions encountered in the soil borings and soil profile pits consisted of the following generalized strata in order of increasing depth.

Surface Cover: The soil borings and soil profile pits were performed within undeveloped areas and encountered approximately two inches to 17 inches of topsoil at the surface. Relatively deeper roots mats/roots were observed within the soil profile pits to depths up to 86 inches below the ground surface.

Glacial Till Deposits: Beneath the surface cover, natural glacial till deposits were encountered that consisted variably of gravel (USCS: GM, GP, GW, GC, GC-GM and GP-GM), sand (USCS: SC, SW-SM, and SM), silt (USCS: ML) and clay (USCS: CL and CL-ML). In addition, oversized cobble/boulder sized fragments were observed within this stratum within the soil profile pit excavations. The natural glacial deposits were encountered to depths ranging between approximately two feet and 20 feet below the ground surface; corresponding to elevations ranging between 231.8 feet and 122.0 feet. Except where split spoon sampler refusal was encountered, SPT N-values ranged between three blows per foot (bpf) and 73 bpf, and averaged approximately 29 bpf, generally indicating a relatively medium dense condition within the coarse-grained soils.

Unconfined compressive strength (Q_p) pocket penetrometer values within this stratum ranged between 0.25 tons per square foot (tsf) and 4.5 tsf; and averaged approximately 2.1 tsf, generally indicating a relatively very stiff consistency within the fine-grained soils.

Weathered Rock: Beneath the natural glacial deposits, weathered rock was encountered that generally sampled as sand (USCS: SW and SC), clay (USCS: CL and CL-ML) and gravel sized rock fragments (USCS: GW, GP, GC, and GM). The weathered rock was encountered to refusal depths ranging between approximately 2.5 feet and 25.8 feet below the ground surface; corresponding to elevations ranging between 224.5 feet and 119.0 feet. Except where split spoon sampler refusal was encountered, SPT N-values ranged between 31 bpf and 71 bpf, and averaged approximately 49 bpf, generally indicating a relatively dense condition. Refusal is anticipated to be the top of rock.

Bedrock: Beneath the weathered rock, rock was encountered within rock probes and during coring operations performed at Borings B-2, B-13, B-18, and B-19. Based on the rock core samples, the rock encountered generally consisted of moderately to highly weathered, extremely fractured shale. Rock coring was performed to boring termination depths ranging between 19 feet and 27 feet below the ground surface; corresponding to elevations ranging between 215.5 feet and 114.0 feet. Rock was encountered within rock probes to termination depths up to 50 feet below the ground surface; corresponding to elevations ranging between 182.0 feet and 155.0 feet. Rock core recoveries from the coring operations ranged from 50 and 93 percent; and the Rock Quality Designation (RQD) encountered in the core samples ranged between approximately zero and 43 percent; generally corresponding to a relatively very poor rock mass quality.

4.4 Seasonal High Groundwater and Groundwater

Indicators of seasonal high groundwater (i.e. based on soil mottling) were encountered within the soil profile pits at depths ranging between 1.2 feet and 9.0 feet below the ground surface; corresponding to elevations ranging between 227.0 feet and 133.5 feet. Groundwater was encountered within the soil borings and soil profile pits at depths ranging between two feet and 15 feet below the ground surface; corresponding to elevations ranging between 226.0 feet and 129.5 feet. Apparent perched water was encountered within the soil borings and soil profile pits at depths ranging between one foot and 5.5 feet below the ground surface, corresponding to elevations ranging between 235.0 feet and 131.7 feet. Groundwater levels are expected to fluctuate seasonally and following significant periods of precipitation.

5.0 PRELIMINARY CONCLUSIONS AND RECOMMENDATIONS

5.1 General

The following preliminary considerations are based on the soil conditions encountered during our limited subsurface investigation for the proposed site development and are intended to provide general characteristics of the subsurface conditions for preliminary planning purposes and should not be utilized for final design of structural foundations, floor slabs, or pavements. Final recommendations pertaining to the geotechnical aspects of the site development will need to be developed from a supplemental subsurface investigation and engineering analyses of the final site development plans.

Conventional shallow foundations and ground supported floor slabs are expected to be feasible for proposed structures bearing within approved on-site materials and/or controlled compacted structural fill material, provided the subgrade soils are properly prepared and tested during construction. The on-site soils are preliminarily expected to be suitable for support of proposed floor slabs and pavements. Due to moisture sensitivity of the on-site soils, at least partial overexcavation, replacement, and/or moisture conditioning should be included as part of project planning for the proposed development.

Relatively shallow refusal and difficult drilling/excavating was encountered during this investigation due to apparent cobbles/boulders and underlying weathered rock. As such, the contractor should anticipate difficult excavation to remove cobbles/boulders and weathered rock/rock, particularly where existing site elevations are lowered as part of the proposed site grading.

5.2 Preliminary Shallow Foundation Design Recommendations

Anticipated Bearing Strata: Proposed foundations are expected to bear within the natural glacial deposits, underlying weathered rock/rock, and/or newly placed compacted structural fill material placed to raise site grades. Approved portions of these materials are expected to be suitable for support of proposed foundations, provided they are properly tested and inspected during construction. Due to the moisture sensitivity of the on-site soils, project planning should include at least partial overexcavation and replacement and/or moisture conditioning.

Conventional Shallow Foundations: The proposed structures may be supported on conventional shallow foundations bearing within newly placed compacted structural fill material and/or approved natural soils. Foundations may preliminarily be designed to impart a maximum allowable net bearing pressure of 3,000 pounds per square foot (psf). Regardless of loading

11

conditions, proposed foundations should be sized no less than a minimum of 24 inches for continuous wall footings and 36 inches for isolated column footings.

Footings should be designed so that the maximum toe pressure due to the combined effect of vertical loads and overturning moment does not exceed the recommended maximum allowable net bearing pressure recommended above. In addition, positive contact pressure should be maintained throughout the base of the footings such that no uplift or tension exists between the base of the footings and the supporting soil. Uplift loads should be resisted by the weight of the concrete. Side friction should be neglected when proportioning the footings so that lateral resistance should be provided by friction resistance at the base of the footings.

Lateral resistance should be provided by friction at the base of the footing with a recommended coefficient of friction against sliding as follows:

- \triangleright Formed concrete on gravel subbase material 0.40;
- \triangleright Mass concrete on gravel subbase material 0.45; and
- Mass concrete on on-site natural soils 0.35.

Inspection/Overexcavation Criteria: The suitability of the bearing soils along and below the footing bottoms must be verified by Dynamic Earth's geotechnical engineer prior to placing concrete, especially to confirm that unsuitable materials are removed (if encountered) and new fills are adequately placed and compacted. If required, any overexcavation to be restored with structural fill (on-site or imported) will need to extend at least one foot laterally beyond footing edges for each vertical foot of overexcavation. The bottom of overexcavations should be compacted with smooth drum rollers, walk-behind compactors, vibrating plates or plate tampers ("jumping jacks") to compact locally disturbed materials and densify underlying natural soil zones. Unsuitable materials should be overexcavated prior to placing new fill material where site grades are to be raised.

Settlement: Dynamic Earth preliminarily estimates post construction settlements of proposed foundations on the order of one inch if the recommendations outlined in this report are properly implemented. Differential settlements of foundations should be less than one-half inch. Final evaluation of the design loads and supplemental geotechnical investigation will be needed to confirm these estimates.

Partial Rock Support: Footings should not bear partially on rock and partially on soil due to the risk of brittle fracture at hinging points. Any foundation subgrades that would result in partially supported rock conditions should be overexcavated an additional six inches and replaced with well

graded, compacted structural fill, to provide a cushion against brittle fracture. Alternatively, isolated spread footings may be extended to bear entirely on rock.

Frost Depth: Footings subject to frost action should be placed at least 40 inches below adjacent exterior grades or as required by the local building code to provide protection from frost penetration. Interior footings not subject to frost action (including during the period of construction) may be placed at a minimum depth of 18 inches below the slab subgrade.

5.3 Preliminary Floor Slab Recommendations

Dynamic Earth anticipates that the approved on-site soils and/or compacted structural fill material placed over approved natural subgrades will be suitable for support of the proposed floor slabs, provided these materials are properly evaluated, compacted and proofrolled as detailed herein. Due to the moisture sensitivity of the on-site soils, at least partial overexcavation and replacement and/or subgrade stabilization should be anticipated below proposed floor slabs. Depending on construction phase evaluation, overexcavation may be limited (to a typical depth of approximately two feet) with the use of geogrid reinforcement (such as Tensar TX-5 or TX-7 or equivalent). In addition, any areas that become softened or disturbed as a result of wetting and/or repeated exposure to construction traffic should be removed and replaced with compacted structural fill. Alternatively, moisture conditioning methods may be evaluated by Dynamic Earth at the time of construction. We preliminarily expect that the properly prepared on-site soils are will yield a minimum subgrade modulus (k) of 125 psi/in.

A minimum four-inch layer of stone should be installed below the floor slabs to provide a capillary break. A moisture vapor barrier beneath the floor slab is recommended. Total and post-construction settlements of floor slabs installed in accordance with the recommendations outlined in this report are estimated to be less than one-quarter inch.

5.4 Preliminary Pavement Recommendations

The on-site soils are preliminarily expected to be suitable for support of proposed pavements. **Due to the moisture sensitivity of the on-site soils, at least partial overexcavation and replacement and/or subgrade stabilization should be anticipated below proposed pavements.** Pavement life may benefit from using a geogrid (such as Tensar TX-5 or TX-7 or equivalent) to provide additional subgrade reinforcement to minimize the amount of overexcavation and attempt to stabilize marginally suitable subgrade soils. Depending on the overall subgrade conditions and weather conditions, more extensive mitigation efforts may be required.

Preliminary Design Criteria: A preliminary design California Bearing Ratio (CBR) value of seven has been assigned to the anticipated properly prepared subgrade soils for pavement design

purposes. Pavement section recommendations should be developed based on supplemental Geotechnical Investigation.

5.5 Preliminary Groundwater Considerations

Groundwater and/or perched zones of saturation above the underlying rock stratum may be encountered within proposed excavations, particularly where existing site elevations will be lowered as part of the proposed grading. As such, the contractor should anticipate the need for groundwater control during construction.

While groundwater control means and methods are the responsibility of the contractor, excavations extending to depths of approximately two feet below the static groundwater elevation typically may be controlled by sump pumps and strategically placed sump pits in and adjacent to excavations for relatively small areas. Larger excavations and excavations extending deeper than two feet below groundwater may require deeper well recovery points. Surface water runoff must be controlled and diverted away from construction areas by grading and limiting the exposure of excavations to rainfall.

In addition, the project structural engineer and architect should review the groundwater and seasonal high groundwater levels encountered and evaluate the potential need for permanent groundwater control measures.

5.6 Preliminary Earthwork Considerations

Surface Cover Stripping: Prior to the start of construction, all utilities should be identified and secured. If encountered, existing structural elements, such as concrete foundations, slabs, and remnant basement walls, should be removed entirely from below proposed foundations and slabs and excavated to at least two feet below pavement subgrades. Remnant structural elements may remain in-place below these depths below pavements provided they do not interfere with future construction. Any slabs left in-place should be thoroughly fractured to promote vertical drainage in the presence of a qualified Geotechnical Engineer and should be backfilled with structural fill in accordance with the recommendations included herein.

The surface cover materials, including vegetation and topsoil, should be removed from within, and at least five feet beyond the limits of the proposed buildings and new pavement areas as well as any other area which will require fill placement. Removal of trees should include root mats and tree stumps. Based on the existing site conditions, areas The contractor

Surface Preparation/Proofrolling: Prior to placing any fill or subbase materials to raise or restore grades to the desired building pad or pavement subgrade elevations, the existing exposed soils

should be compacted to a firm and unyielding surface with several passes in two perpendicular directions with a vibratory, smooth drum roller during favorable moisture conditions. The drum roller should be operated in the static mode or a kneading "sheepsfoot" roller should be used where fine-grained soils are encountered at the subgrade elevation and/or where water is suspected near subgrade elevations. The surface should then be proofrolled with a loaded tandem axle truck in the presence of Dynamic Earth to help identify soft or loose pockets which may require removal and replacement or further investigation. Dynamic Earth anticipates at least partial overexcavation if the subgrade is wetted or subjected to repeated construction traffic. Any fill or backfill should be placed and compacted in accordance with the recommendations included herein.

Subgrade Protection and Inspection: Portions of the on-site soils are considered extremely moisture sensitive and every effort should be made to minimize disturbance of the on-site soils by construction traffic and surface runoff. The on-site soils will likely become unsuitable if exposed to moisture and/or construction traffic. If these materials become overly wetted, the on-site soils will likely require increased handling such as discing and drying during extended periods of favorable weather and/or partial overexcavation and stabilization. Stabilization methods that can be evaluated for the site include the use of a triaxle geogrid such as Tensar TX-5 of TX-7, or cement/lime mixing as directed by the geotechnical engineer. Therefore, the subgrades and soil stockpiles should be sealed daily and construction traffic be minimized to designated non-structural areas and following periods of precipitation as an attempt to minimize deterioration of otherwise suitable subgrade soils. Dynamic Earth should be retained as the Geotechnical Engineer of Record to inspect soil conditions during construction and verify the suitability of prepared foundation, floor slab and pavement subgrades for support of design loads.

Import/On-site Structural Fill Material: Soils placed as structural fill material should consist of well graded sand or gravel with a maximum particle size of three inches in diameter and less than 15 percent of material passing the number 200 sieve. These materials should be free of objectionable debris (clay clumps, organic and/or deleterious material, etc.) and within moisture contents suitable for compaction. Alternative soil types with higher percentages of silt and clay may be considered, provided that the contractor is able to achieve proper compaction and maintain suitable subgrade once the material is placed. Fine-grained soils and/or granular soils with higher percentages of silt and clay are extremely moisture sensitive and will only be suitable for reuse as structural fill material under ideal weather conditions. Materials wetted beyond the optimum moisture content; that contain oversized rock or debris; or with increased amounts of objectionable debris will not be suitable for reuse as structural fill material without special handling. As such, the contractor should be responsible for importing structural fill material and/or processing on-site soils as required so that these materials are suitable for structural fill placement.

If encountered, cobbles/boulders and/or weathered rock/rock fragments greater than three inches in diameter will need to be separated from material to be placed as structural fill. Approved

material between three to 12 inches in diameter may be crushed or individually placed in fill layers deeper than two feet below proposed subgrade levels. Care must be taken to individually seat any large particles and to compact soil around large particles with hand operated equipment to minimize the risk of void formation. The larger material should not be placed near areas of the proposed utility or planned excavation. Boulders and/or rock fragments larger than approximately 12 inches are not expected to be adequate for use as fill or backfill and should be removed from the site or crushed to an adequate size.

The on-site materials included natural glacial deposits and underlying weathered rock/rock. Portions of the natural glacial deposits are preliminarily expected to be suitable for reuse as structural fill material, provided moisture contents are within tolerable limits to achieve compaction and oversized materials are separated and/or processed to an acceptable size. Portions of the natural glacial deposits are considered extremely moisture sensitive and will likely require moisture conditioning to be suitable for reuse as structural fill material. Moisture conditioning methods may include discing/aerating soils during a period of favorable weather, mixing with lime or cement, and/or mixing with granular soils. Portions of the underlying weathered rock/rock may be suitable for reuse on-site, provided they are processed to an acceptable size and gradation as detailed herein. Reuse of these materials will be contingent upon further evaluation during construction.

Rock Fill Material: An alternative to exporting oversized weathered rock/rock materials, considerations for using these materials as rock fill may be evaluated, provided these materials are processed and placed in accordance with the recommendations included herein. Rock fills should not be used in areas that will interfere with future construction (i.e. below proposed footings or near proposed utility excavations). Rock fills typically should not be placed within 15 feet of proposed utilities or foundations or within three feet of the ground surface.

Rock fills generally consist of placing rock in controlled lifts so that void space is minimized. The material should be placed evenly with a dozer so overall lift thickness is less than 1.5 times the largest particle size. Based on our regional experience and the average estimated particle size encountered during this investigation, we preliminary expect that lifts thickness on the order of approximately 18 inches to 24 inches should be expected. Thicker lifts may be evaluated once excavated material is stockpiled, but in no case shall the lifts be thicker than 36 inches (for 24 inch diameter sized rock). Rock larger than 24 inches in diameter shall be processed to a smaller size (less than 24 inches) or removed from the site. The stockpiled material should be evaluated prior to fill placement and test lifts should be perform to confirm the suitability and requirements for use of rock fill.

Rock fills should be compacted with a 20 ton, vibratory, smooth drum roller. Soil particle size with a maximum diameter less than the void space within the rock fill material should be placed over the lift until there is no visible movement and prevent soil from migrating into the rock fill. Alternatively, geotextiles may be considered to prevent the soil from migrating to the rock fill.

Compaction and Placement Requirements: Structural fill and backfill should be placed in maximum 12 inch loose lifts and compacted to 95 percent of the maximum dry density within a targeted two percent of the optimum moisture content as determined by ASTM D 1557 (Modified Proctor). Variations in moisture content may be acceptable subject to Dynamic Earth's on-site geotechnical engineer's approval if the contractor is able to achieve the necessary compaction. Dynamic Earth recommends using a minimum 20-ton smooth drum roller to compact subgrade soils beneath pavements or slabs and hand operated vibratory jumping jacks and plate compactors within confined excavations for foundations or utilities. The drum roller should be operated in the static mode or a kneading "sheepsfoot" roller should be used to compact fine-grained soils. Fill material compacted with hand operated equipment, static drum roller and/or sheepsfoot roller, may need to be placed in thinner, loose lifts and an increased number of passes may be required to achieve proper compaction.

Structural Fill Testing: Before filling operations begin, representative samples of each proposed fill material (on-site and imported) should be collected. The samples should be tested to determine the maximum dry density, optimum moisture content, natural moisture content, gradation, and plasticity of the soil. These tests are needed for quality control during compaction and also to determine if the fill material is acceptable. The placement of all fill and backfill will need to be monitored by Dynamic Earth to ensure that the specified material and lift thicknesses are properly installed. A sufficient number of in-place density tests should be performed during fill placement to ensure that the specified compaction is achieved throughout the height of the fill or backfill.

Difficult Excavation: Difficult auger refusal and split spoon refusal was encountered while drilling as shallow as one feet below the ground surface. As such, difficult excavation to remove oversized materials, cobble and boulder sized fragments and/or debris should be anticipated, particularly where existing site elevations are lowered as part of the site development (such as within portions of the central, southern and western areas of the site). Construction budgets should include unit rate cost and schedules related to difficult excavation.

While small boulders and cobbles may typically be removed with conventional excavation equipment, heavy excavation equipment will likely be required for larger cobbles/boulders and/or rock fragments. The speed and ease of excavation will depend on the type of grading equipment, the skill of the equipment operators, and the structure of the refusal material itself. Planned

excavation depths beyond refusal depths may require more extensive excavation efforts to remove the cobbles/boulders and/or weathered rock.

Submerged Fill: The initial 18 to 24 inches of backfill at excavations that extend below the groundwater level (in conjunction with dewatering methods) may consist of nominally one inch, crushed stone (such as AASHTO #57 Stone) placed to raise grades above groundwater levels before subsequent lifts of structural fill. Submerged fill should be separated from surrounding soils (below, adjacent, and above) with a fines barrier geotextile, such as Mirafi FW700 or equivalent to prevent future migration of fines content from surrounding soils.

5.7 Retaining Walls and Lateral Earth Pressure Recommendations

General: Based on the proposed grading plans, retaining walls are anticipated as part of the proposed site development that will generally be located around the perimeter of proposed pavement/parking areas. The specific type and layout of retaining walls have not been defined at this time; however, the walls are expected to have maximum exposed wall heights on the order of 20 to 30 feet. As such, Dynamic Earth presents the following preliminary design recommendations for earth retaining structures. Dynamic Earth recommends a supplemental geotechnical investigation is performed within proposed retaining wall areas to assist with designing of the walls. Dynamic Earth can provide retaining wall design services, if requested.

Soil Parameters and Design Considerations: Proposed retaining walls that are free to rotate generally can be designed to resist active earth pressures. Restrained walls and retaining wall corners need to be designed to resist at-rest earth pressures. Backfill soils adjacent to retaining structures should consist of freely draining materials composed primarily of sand and gravel. The soil parameters provided below apply to properly compacted granular fill and backfill placed in a well-drained, level condition and may be used for preliminary design of retaining structures.

	SUMMARY OF LATERAL EARTH PRESSURE PARAMETERS												
Stratum	Moist Density, γ _{moist} , (pcf)	Internal Friction Angle, Φ (degrees)	Coefficient of Active Earth Pressure (K _a)	Coefficient of Passive Earth Pressure (K _p)	Coefficient of At-Rest Earth Pressure (K ₀)	Cohesion (psf)							
Natural Glacial Till & Deposits (Fine Grained)	125	20	0.49	2.04	0.66	750							
Natural Glacial Till & Deposits (Granular)	135	30	0.33	3.0	0.50	0							

	SUMMARY OF LATERAL EARTH PRESSURE PARAMETERS												
Stratum	Moist Density, γ _{moist} , (pcf)	Coefficient of At-Rest Earth Pressure (K ₀)	Cohesion (psf)										
Weathered Rock/Rock	150	36	0.26	3.85	0.41	0							
Import/ Compacted Granular Soil	135	32	0.31	3.25	0.47	0							

The effect of any surcharge loads including construction equipment, traffic, proposed/existing structures and temporary and permanent stockpiles also will need to be included in earth pressure calculations. Dynamic Earth would be pleased to assist with the calculation of lateral earth pressures based on the soil parameters presented herein during the structural design phase.

Retaining walls should be designed so that the combined effect of vertical and horizontal resultant loads and overturning moment does not exceed the maximum allowable soil bearing capacity recommended in this report.

Adequate drainage of water which may collect on the backfill side of the retaining walls should be incorporated into the design and/or hydrostatic pressures should be added to the pressure calculations. A system of perforated drain pipes should be used at the base of the backfill side of the wall structure to collect and remove the water and relieve hydrostatic pressure.

Dynamic Earth recommends that granular soils be used to backfill the proposed subgrade and retaining walls. Clays and silts or soils with a fine fraction with a liquid limit exceeding 40 or a plastic index exceeding 20 should not be used as backfill. Acceptable backfill should be placed in maximum nine-inch loose lifts and compacted to 95 percent of the maximum dry density, within two percent of the optimum moisture content, as determined by ASTM D 1557 (Modified Proctor). A maximum density of 135 pounds per cubic foot should not be exceeded in order to avoid creating excessive lateral pressure on the walls during compaction operations.

Dynamic Earth recommends that backfill directly behind the walls be compacted with light, hand-held compactors. Heavy compactors and grading equipment should not be allowed to operate within a zone measured at a 45-degree angle from the base of the walls during backfilling to avoid developing excessive temporary or long-term lateral soil pressures.

Due to the cobbles/boulders encountered within the on-site soils and underlying weathered rock/rock, difficult excavation should be anticipated within the area of proposed retaining walls.

5.8 Temporary Excavations

The granular soils encountered during the investigation are consistent with Type C Soil Conditions as defined by 29 CFR Part 1926 (OSHA) which require a maximum unbraced excavation angle of 1.5:1 (horizontal: vertical). Actual conditions encountered during construction should be evaluated by a competent person (as defined by OSHA) to ensure that safe excavation methods and/or shoring and bracing requirements are implemented.

5.9 Preliminary Seismic and Liquefaction Considerations

The soils are most consistent with a Site Class D defined by the *International Building Code*. Based on the seismic zone and soil profile, liquefaction considerations are not expected to have a substantial impact on design.

5.10 Seasonal High Groundwater and Infiltration

Evidence of seasonal high groundwater (soil mottling) was encountered within the soil profile pits at depths ranging between approximately 1.2 feet and nine feet below the ground surface; corresponding to elevations ranging between 227.0 feet and 133.5 feet. In-situ infiltration rates ranged between zero inches per hour and 24.0 inches per hour. In-situ infiltration testing was not performed at soil profile pit locations SPP-119, SPP-120, SPP-123, and SPP-134 due to an excessive amount of coarse fragments encountered within the soil profile. A summary of the seasonal high groundwater levels and in-situ infiltration testing is presented in the following table:

	SOIL MOTTLING, GROUNDWATER, AND INFILTRATION SUMMARY												
	Approximate	Mo	ttling	Grou	ndwater	Infilt	ration						
Location	Surface Elevation	Depth (Feet)	Elevation (Feet)	Depth (Feet)	Elevation (Feet)	Depth (inches)	Rate (in/hour)						
SPP-1	226.0	Not En	countered	Not En	countered	48	2.0						
SPP-2	220.0	1.8	218.2	Not En	countered	36	5.0						
SPP-3	222.0	Not En	countered	Not En	countered	48	2.5						
SPP-4	230.0	3.3	226.7	4.0 226.0		36	0.5						
SPP-5	224.0	2.7	221.3	Not En	countered	24	0.1						
SPP-6	229.0	2.0	227.0	4.3	224.7	18	0.1						
SPP-7	231.0	5.8	225.2	11.6 219.4		36	0.1						
SPP-8	212.0	3.0	209.0	3.0 209.0		24	0.2						
SPP-9	211.0	2.3	208.7	4.0 207.0		30	0.1						
SPP-10	216.0	5.5	210.5	Not En	countered	48	0.1						

Location Approximate Elevation Peet (Feet) (SOIL MOTTLI	NG, GR	OUNDWAT	ER, AND	INFILTRATI	ON SUMMAI	RY
Elevation (Feet) (Feet) (Feet) (Feet) (in/hour) SPP-11 200.0 3.0 197.0 6.0 194.0 24 0.3 SPP-12 189.0 1.3 187.7 5.3 183.7 36 5.0 SPP-13 210.0 1.3 208.7 2.8 207.2 18 0.1 SPP-14 193.0 2.0 191.0 10.0 183.0 48 0.0 SPP-15 203.0 1.5 201.5 7.6 195.4 24 0.5 SPP-16 207.0 1.4 205.6 Not Encountered 36 0.1 SPP-17 197.0 2.0 195.0 Not Encountered 48 1.0 SPP-18 191.0 3.0 188.0 8.5 182.5 48 0.5 SPP-19 140.0 1.3 138.7 7.0 133.0 48 4.0 SPP-20 143.0 6.5 136.5 Not Encountered								
SPP-12 189.0 1.3 187.7 5.3 183.7 36 5.0 SPP-13 210.0 1.3 208.7 2.8 207.2 18 0.1 SPP-14 193.0 2.0 191.0 10.0 183.0 48 0.0 SPP-15 203.0 1.5 201.5 7.6 195.4 24 0.5 SPP-16 207.0 1.4 205.6 Not Encountered 36 0.1 SPP-17 197.0 2.0 195.0 Not Encountered 48 1.0 SPP-18 191.0 3.0 188.0 8.5 182.5 48 0.5 SPP-19 140.0 1.3 136.5 Not Encountered 24 0.5 SPP-20 143.0 6.5 136.5 Not Encountered 24 0.5 SPP-21 152.0 2.5 149.5 2.5 149.5 24 3.0 SPP-22 145.0 Not Encountered Not Encountered No	Location		_		_			
SPP-13 210.0 1.3 208.7 2.8 207.2 18 0.1 SPP-14 193.0 2.0 191.0 10.0 183.0 48 0.0 SPP-15 203.0 1.5 201.5 7.6 195.4 24 0.5 SPP-16 207.0 1.4 205.6 Not Encountered 36 0.1 SPP-17 197.0 2.0 195.0 Not Encountered 48 1.0 SPP-18 191.0 3.0 188.0 8.5 182.5 48 0.5 SPP-19 140.0 1.3 138.7 7.0 133.0 48 4.0 SPP-20 143.0 6.5 136.5 Not Encountered 24 0.5 SPP-21 152.0 2.5 149.5 2.5 149.5 24 3.0 SPP-22 145.0 Not Encountered Not Encountered 48 3.5 3.5 132.5 24 0.5 3.5 3.5 132.5	SPP-11	200.0	3.0	197.0	6.0	194.0	24	0.3
SPP-14 193.0 2.0 191.0 10.0 183.0 48 0.0 SPP-15 203.0 1.5 201.5 7.6 195.4 24 0.5 SPP-16 207.0 1.4 205.6 Not Encountered 36 0.1 SPP-17 197.0 2.0 195.0 Not Encountered 48 1.0 SPP-18 191.0 3.0 188.0 8.5 182.5 48 0.5 SPP-19 140.0 1.3 138.7 7.0 133.0 48 4.0 SPP-20 143.0 6.5 136.5 Not Encountered 24 0.5 SPP-21 152.0 2.5 149.5 2.5 149.5 24 3.0 SPP-22 145.0 Not Encountered Not Encountered 48 3.5 3.5 SPP-23 140.0 Not Encountered Not Encountered 48 3.5 SPP-24 137.0 2.5 134.5 7.5 129.5	SPP-12	189.0	1.3	187.7	5.3	183.7	36	5.0
SPP-15 203.0 1.5 201.5 7.6 195.4 24 0.5 SPP-16 207.0 1.4 205.6 Not Encountered 36 0.1 SPP-17 197.0 2.0 195.0 Not Encountered 48 1.0 SPP-18 191.0 3.0 188.0 8.5 182.5 48 0.5 SPP-19 140.0 1.3 138.7 7.0 133.0 48 4.0 SPP-20 143.0 6.5 136.5 Not Encountered 24 0.5 SPP-21 152.0 2.5 149.5 2.5 149.5 24 3.0 SPP-22 145.0 Not Encountered Not Encountered 48 3.5 3.5 SPP-22 145.0 Not Encountered 48 3.5 SPP-23 140.0 Not Encountered Not Encountered 48 3.5 SPP-24 137.0 2.5 134.5 7.5 129.5 48 6.0 3.5 SPP-10 220.0	SPP-13	210.0	1.3	208.7	2.8	207.2	18	0.1
SPP-16 207.0 1.4 205.6 Not Encountered 36 0.1 SPP-17 197.0 2.0 195.0 Not Encountered 48 1.0 SPP-18 191.0 3.0 188.0 8.5 182.5 48 0.5 SPP-19 140.0 1.3 138.7 7.0 133.0 48 4.0 SPP-20 143.0 6.5 136.5 Not Encountered 24 0.5 SPP-21 152.0 2.5 149.5 2.5 149.5 24 3.0 SPP-21 152.0 2.5 149.5 2.5 149.5 24 3.0 SPP-22 145.0 Not Encountered Not Encountered 48 3.5 SPP-22 145.0 Not Encountered 48 3.5 SPP-23 140.0 Not Encountered 48 3.5 SPP-23 140.0 Not Encountered 48 6.0 3.5 SPP-25 136.0 2.5 133.5 3.5 132.5 24 <t< td=""><td>SPP-14</td><td>193.0</td><td>2.0</td><td>191.0</td><td>10.0</td><td>183.0</td><td>48</td><td>0.0</td></t<>	SPP-14	193.0	2.0	191.0	10.0	183.0	48	0.0
SPP-17 197.0 2.0 195.0 Not Encountered 48 1.0 SPP-18 191.0 3.0 188.0 8.5 182.5 48 0.5 SPP-19 140.0 1.3 138.7 7.0 133.0 48 4.0 SPP-20 143.0 6.5 136.5 Not Encountered 24 0.5 SPP-21 152.0 2.5 149.5 2.5 149.5 24 3.0 SPP-22 145.0 Not Encountered Not Encountered 24 0.5 3.0 3.2 3.0 3.0	SPP-15	203.0	1.5	201.5	7.6	195.4	24	0.5
SPP-18 191.0 3.0 188.0 8.5 182.5 48 0.5 SPP-19 140.0 1.3 138.7 7.0 133.0 48 4.0 SPP-20 143.0 6.5 136.5 Not Encountered 24 0.5 SPP-21 152.0 2.5 149.5 2.5 149.5 24 3.0 SPP-22 145.0 Not Encountered Not Encountered 24 0.5 3.0 <td>SPP-16</td> <td>207.0</td> <td>1.4</td> <td>205.6</td> <td>Not En</td> <td>countered</td> <td>36</td> <td>0.1</td>	SPP-16	207.0	1.4	205.6	Not En	countered	36	0.1
SPP-19 140.0 1.3 138.7 7.0 133.0 48 4.0 SPP-20 143.0 6.5 136.5 Not Encountered 24 0.5 SPP-21 152.0 2.5 149.5 2.5 149.5 24 3.0 SPP-22 145.0 Not Encountered Not Encountered 24 0.5 SPP-23 140.0 Not Encountered Not Encountered 48 3.5 SPP-24 137.0 2.5 134.5 7.5 129.5 48 6.0 SPP-25 136.0 2.5 133.5 3.5 132.5 24 2.5 SPP-101 220.0 2.3 217.7 Not Encountered 16 0.25 SPP-102 224.0 Not Encountered Not Encountered 24 0.5 SPP-103 228.0 Not Encountered Not Encountered 24 2.75 SPP-104 222.0 2.7 219.3 Not Encountered 12 20.5	SPP-17	197.0	2.0	195.0	Not En	countered	48	1.0
SPP-20 143.0 6.5 136.5 Not Encountered 24 0.5 SPP-21 152.0 2.5 149.5 2.5 149.5 24 3.0 SPP-22 145.0 Not Encountered Not Encountered 24 0.5 SPP-23 140.0 Not Encountered Not Encountered 48 3.5 SPP-24 137.0 2.5 134.5 7.5 129.5 48 6.0 SPP-25 136.0 2.5 133.5 3.5 132.5 24 2.5 SPP-101 220.0 2.3 217.7 Not Encountered 16 0.25 SPP-102 224.0 Not Encountered Not Encountered 30 1.0 SPP-103 228.0 Not Encountered Not Encountered 24 2.75 SPP-104 222.0 2.7 219.3 Not Encountered 12 20.5 SPP-105 222.0 Not Encountered Not Encountered 12 20.5 SPP-106	SPP-18	191.0	3.0	188.0	8.5	182.5	48	0.5
SPP-21 152.0 2.5 149.5 2.5 149.5 24 3.0 SPP-22 145.0 Not Encountered Not Encountered 24 0.5 SPP-23 140.0 Not Encountered Not Encountered 48 3.5 SPP-24 137.0 2.5 134.5 7.5 129.5 48 6.0 SPP-25 136.0 2.5 133.5 3.5 132.5 24 2.5 SPP-101 220.0 2.3 217.7 Not Encountered 16 0.25 SPP-102 224.0 Not Encountered Not Encountered 30 1.0 SPP-103 228.0 Not Encountered Not Encountered 24 0.5 SPP-104 222.0 2.7 219.3 Not Encountered 24 2.75 SPP-105 222.0 Not Encountered Not Encountered 12 20.5 SPP-106 219.0 Not Encountered Not Encountered 12 0.1 SPP-107 <t< td=""><td>SPP-19</td><td>140.0</td><td>1.3</td><td>138.7</td><td>7.0</td><td>133.0</td><td>48</td><td>4.0</td></t<>	SPP-19	140.0	1.3	138.7	7.0	133.0	48	4.0
SPP-22 145.0 Not Encountered Not Encountered 24 0.5 SPP-23 140.0 Not Encountered Not Encountered 48 3.5 SPP-24 137.0 2.5 134.5 7.5 129.5 48 6.0 SPP-25 136.0 2.5 133.5 3.5 132.5 24 2.5 SPP-101 220.0 2.3 217.7 Not Encountered 16 0.25 SPP-102 224.0 Not Encountered Not Encountered 30 1.0 SPP-103 228.0 Not Encountered Not Encountered 24 0.5 SPP-104 222.0 2.7 219.3 Not Encountered 24 2.75 SPP-104 222.0 Not Encountered Not Encountered 12 20.5 SPP-105 222.0 Not Encountered Not Encountered 14 24.0 SPP-106 219.0 Not Encountered Not Encountered 12 0.1 SPP-108 222.0	SPP-20	143.0	6.5	136.5	Not En	countered	24	0.5
SPP-23 140.0 Not Encountered Not Encountered 48 3.5 SPP-24 137.0 2.5 134.5 7.5 129.5 48 6.0 SPP-25 136.0 2.5 133.5 3.5 132.5 24 2.5 SPP-101 220.0 2.3 217.7 Not Encountered 16 0.25 SPP-102 224.0 Not Encountered Not Encountered 30 1.0 SPP-103 228.0 Not Encountered Not Encountered 24 0.5 SPP-104 222.0 2.7 219.3 Not Encountered 24 2.75 SPP-104 222.0 2.7 219.3 Not Encountered 12 20.5 SPP-105 222.0 Not Encountered Not Encountered 12 20.5 SPP-106 219.0 Not Encountered Not Encountered 12 0.1 SPP-107 224.0 Not Encountered Not Encountered 24 0.25 SPP-108 222.0	SPP-21	152.0	2.5	149.5	2.5	149.5	24	3.0
SPP-24 137.0 2.5 134.5 7.5 129.5 48 6.0 SPP-25 136.0 2.5 133.5 3.5 132.5 24 2.5 SPP-101 220.0 2.3 217.7 Not Encountered 16 0.25 SPP-102 224.0 Not Encountered Not Encountered 30 1.0 SPP-103 228.0 Not Encountered Not Encountered 24 0.5 SPP-104 222.0 2.7 219.3 Not Encountered 24 2.75 SPP-104 222.0 Not Encountered Not Encountered 12 20.5 SPP-105 222.0 Not Encountered Not Encountered 14 24.0 SPP-106 219.0 Not Encountered Not Encountered 12 0.1 SPP-107 224.0 Not Encountered Not Encountered 12 0.1 SPP-108 222.0 Not Encountered Not Encountered 24 0.25 SPP-109 214.0	SPP-22	145.0	Not En	countered	Not En	countered	24	0.5
SPP-25 136.0 2.5 133.5 3.5 132.5 24 2.5 SPP-101 220.0 2.3 217.7 Not Encountered 16 0.25 SPP-102 224.0 Not Encountered Not Encountered 30 1.0 SPP-103 228.0 Not Encountered Not Encountered 24 0.5 SPP-104 222.0 2.7 219.3 Not Encountered 24 2.75 SPP-105 222.0 Not Encountered Not Encountered 12 20.5 SPP-106 219.0 Not Encountered Not Encountered 14 24.0 SPP-107 224.0 Not Encountered Not Encountered 12 0.1 SPP-108 222.0 Not Encountered Not Encountered 24 0.25 SPP-109 214.0 Not Encountered Not Encountered 24 0.4 SPP-110 216.0 Not Encountered Not Encountered 20 0.25 SPP-111 214.0 Not Encounte	SPP-23	140.0	Not En	countered	Not En	countered	48	3.5
SPP-101 220.0 2.3 217.7 Not Encountered 16 0.25 SPP-102 224.0 Not Encountered Not Encountered 30 1.0 SPP-103 228.0 Not Encountered Not Encountered 24 0.5 SPP-104 222.0 2.7 219.3 Not Encountered 24 2.75 SPP-105 222.0 Not Encountered Not Encountered 12 20.5 SPP-106 219.0 Not Encountered Not Encountered 14 24.0 SPP-107 224.0 Not Encountered Not Encountered 12 0.1 SPP-108 222.0 Not Encountered Not Encountered 24 0.25 SPP-108 222.0 Not Encountered Not Encountered 24 0.25 SPP-109 214.0 Not Encountered Not Encountered 24 0.4 SPP-110 216.0 Not Encountered Not Encountered 20 0.25 SPP-111 214.0 Not Encountered <td< td=""><td>SPP-24</td><td>137.0</td><td>2.5</td><td>134.5</td><td>7.5</td><td>129.5</td><td>48</td><td>6.0</td></td<>	SPP-24	137.0	2.5	134.5	7.5	129.5	48	6.0
SPP-102 224.0 Not Encountered Not Encountered 30 1.0 SPP-103 228.0 Not Encountered Not Encountered 24 0.5 SPP-104 222.0 2.7 219.3 Not Encountered 24 2.75 SPP-105 222.0 Not Encountered Not Encountered 12 20.5 SPP-106 219.0 Not Encountered Not Encountered 14 24.0 SPP-107 224.0 Not Encountered Not Encountered 12 0.1 SPP-108 222.0 Not Encountered Not Encountered 24 0.25 SPP-109 214.0 Not Encountered Not Encountered 24 0.4 SPP-110 216.0 Not Encountered Not Encountered 20 0.25 SPP-111 214.0 Not Encountered Not Encountered 12 0.4 SPP-112 211.0 Not Encountered Not Encountered 30 0.25 SPP-113 208.0 Not Encountered Not Encoun	SPP-25	136.0	2.5	133.5	3.5	132.5	24	2.5
SPP-103 228.0 Not Encountered Not Encountered 24 0.5 SPP-104 222.0 2.7 219.3 Not Encountered 24 2.75 SPP-105 222.0 Not Encountered Not Encountered 12 20.5 SPP-106 219.0 Not Encountered Not Encountered 14 24.0 SPP-107 224.0 Not Encountered Not Encountered 12 0.1 SPP-108 222.0 Not Encountered Not Encountered 24 0.25 SPP-109 214.0 Not Encountered Not Encountered 24 0.4 SPP-110 216.0 Not Encountered Not Encountered 20 0.25 SPP-111 214.0 Not Encountered Not Encountered 12 0.4 SPP-112 211.0 Not Encountered Not Encountered 30 0.25 SPP-113 208.0 Not Encountered Not Encountered 21 0.1 SPP-114 206.0 Not Encountered Not Encount	SPP-101	220.0	2.3	217.7	Not Encountered		16	0.25
SPP-104 222.0 2.7 219.3 Not Encountered 24 2.75 SPP-105 222.0 Not Encountered Not Encountered 12 20.5 SPP-106 219.0 Not Encountered Not Encountered 14 24.0 SPP-107 224.0 Not Encountered Not Encountered 12 0.1 SPP-108 222.0 Not Encountered Not Encountered 24 0.25 SPP-109 214.0 Not Encountered Not Encountered 24 0.4 SPP-110 216.0 Not Encountered Not Encountered 20 0.25 SPP-111 214.0 Not Encountered Not Encountered 12 0.4 SPP-112 211.0 Not Encountered Not Encountered 30 0.25 SPP-113 208.0 Not Encountered Not Encountered 21 0.1 SPP-114 206.0 Not Encountered Not Encountered 18 2.75	SPP-102	224.0	Not En	countered	Not En	countered	30	1.0
SPP-105 222.0 Not Encountered Not Encountered 12 20.5 SPP-106 219.0 Not Encountered Not Encountered 14 24.0 SPP-107 224.0 Not Encountered Not Encountered 12 0.1 SPP-108 222.0 Not Encountered Not Encountered 24 0.25 SPP-109 214.0 Not Encountered Not Encountered 24 0.4 SPP-110 216.0 Not Encountered Not Encountered 20 0.25 SPP-111 214.0 Not Encountered Not Encountered 12 0.4 SPP-112 211.0 Not Encountered Not Encountered 30 0.25 SPP-113 208.0 Not Encountered Not Encountered 32 0.0 SPP-114 206.0 Not Encountered Not Encountered 18 2.75	SPP-103	228.0	Not En	countered	Not En	countered	24	0.5
SPP-106 219.0 Not Encountered Not Encountered 14 24.0 SPP-107 224.0 Not Encountered Not Encountered 12 0.1 SPP-108 222.0 Not Encountered Not Encountered 24 0.25 SPP-109 214.0 Not Encountered Not Encountered 24 0.4 SPP-110 216.0 Not Encountered Not Encountered 20 0.25 SPP-111 214.0 Not Encountered Not Encountered 12 0.4 SPP-112 211.0 Not Encountered Not Encountered 30 0.25 SPP-113 208.0 Not Encountered Not Encountered 32 0.0 SPP-114 206.0 Not Encountered Not Encountered 21 0.1 SPP-115 206.0 Not Encountered Not Encountered 18 2.75	SPP-104	222.0	2.7	219.3	Not En	countered	24	2.75
SPP-107 224.0 Not Encountered Not Encountered 12 0.1 SPP-108 222.0 Not Encountered Not Encountered 24 0.25 SPP-109 214.0 Not Encountered Not Encountered 24 0.4 SPP-110 216.0 Not Encountered Not Encountered 20 0.25 SPP-111 214.0 Not Encountered Not Encountered 12 0.4 SPP-112 211.0 Not Encountered Not Encountered 30 0.25 SPP-113 208.0 Not Encountered Not Encountered 32 0.0 SPP-114 206.0 Not Encountered Not Encountered 21 0.1 SPP-115 206.0 Not Encountered Not Encountered 18 2.75	SPP-105	222.0	Not En	countered	Not En	countered	12	20.5
SPP-108 222.0 Not Encountered Not Encountered 24 0.25 SPP-109 214.0 Not Encountered Not Encountered 24 0.4 SPP-110 216.0 Not Encountered Not Encountered 20 0.25 SPP-111 214.0 Not Encountered Not Encountered 12 0.4 SPP-112 211.0 Not Encountered Not Encountered 30 0.25 SPP-113 208.0 Not Encountered Not Encountered 32 0.0 SPP-114 206.0 Not Encountered Not Encountered 21 0.1 SPP-115 206.0 Not Encountered Not Encountered 18 2.75	SPP-106	219.0	Not En	countered	Not En	countered	14	24.0
SPP-109 214.0 Not Encountered Not Encountered 24 0.4 SPP-110 216.0 Not Encountered Not Encountered 20 0.25 SPP-111 214.0 Not Encountered Not Encountered 12 0.4 SPP-112 211.0 Not Encountered Not Encountered 30 0.25 SPP-113 208.0 Not Encountered Not Encountered 32 0.0 SPP-114 206.0 Not Encountered Not Encountered 21 0.1 SPP-115 206.0 Not Encountered Not Encountered 18 2.75	SPP-107	224.0	Not En	countered	Not En	countered	12	0.1
SPP-110 216.0 Not Encountered Not Encountered 20 0.25 SPP-111 214.0 Not Encountered Not Encountered 12 0.4 SPP-112 211.0 Not Encountered Not Encountered 30 0.25 SPP-113 208.0 Not Encountered Not Encountered 32 0.0 SPP-114 206.0 Not Encountered Not Encountered 21 0.1 SPP-115 206.0 Not Encountered Not Encountered 18 2.75	SPP-108	222.0	Not En	countered	Not En	countered	24	0.25
SPP-111 214.0 Not Encountered Not Encountered 12 0.4 SPP-112 211.0 Not Encountered Not Encountered 30 0.25 SPP-113 208.0 Not Encountered Not Encountered 32 0.0 SPP-114 206.0 Not Encountered Not Encountered 21 0.1 SPP-115 206.0 Not Encountered Not Encountered 18 2.75	SPP-109	214.0	Not En	countered	Not En	countered	24	0.4
SPP-112 211.0 Not Encountered Not Encountered 30 0.25 SPP-113 208.0 Not Encountered Not Encountered 32 0.0 SPP-114 206.0 Not Encountered Not Encountered 21 0.1 SPP-115 206.0 Not Encountered Not Encountered 18 2.75	SPP-110	216.0	Not En	countered	Not En	countered	20	0.25
SPP-113 208.0 Not Encountered Not Encountered 32 0.0 SPP-114 206.0 Not Encountered Not Encountered 21 0.1 SPP-115 206.0 Not Encountered Not Encountered 18 2.75	SPP-111	214.0	Not En	countered	Not En	countered	12	0.4
SPP-114206.0Not EncounteredNot Encountered210.1SPP-115206.0Not EncounteredNot Encountered182.75	SPP-112	211.0	Not En	countered	Not En	countered	30	0.25
SPP-115 206.0 Not Encountered Not Encountered 18 2.75	SPP-113	208.0	Not En	countered	Not En	countered	32	0.0
	SPP-114	206.0	Not En	countered	Not En	countered	21	0.1
SPP-116 197.0 8.5 188.5 Not Encountered 51 24.0	SPP-115	206.0	Not En	countered	Not En	countered	18	2.75
	SPP-116	197.0	8.5	188.5	Not En	countered	51	24.0

	SOIL MOTTLING, GROUNDWATER, AND INFILTRATION SUMMARY											
	Approximate	Mo	ttling	Grou	ndwater	Infilt	ration					
Location	Surface Elevation	Depth (Feet)	Elevation (Feet)	Depth (Feet)	Elevation (Feet)	Depth (inches)	Rate (in/hour)					
SPP-117	193.0	9.0	184.0	Not En	countered	47	24.0					
SPP-118	187.0	Not En	countered	5.5	182.0	41	24.0					
SPP-119	142.0	Not En	countered	Not En	countered	N.	/A					
SPP-120	143.0	Not En	countered	Not En	countered	N.	/A					
SPP-121	142.0	5.0	137.0	Not En	countered	48	0.25					
SPP-122	140.0	3.3	136.7	Not En	countered	32	0.0					
SPP-123	142.0	Not En	countered	Not En	countered	N.	/A					
SPP-124	165.0	Not En	countered	Not En	countered	36	24.0					
SPP-125	140.0	Not En	countered	Not En	countered	16	24.0					
SPP-126	142.0	1.2	140.8	5.2	136.8	14	0.0					
SPP-127	166.0	Not En	countered	11.0	155.0	48	24.0					
SPP-128	142.0	Not En	countered	Not En	countered	30	10.0					
SPP-129	137.0	Not En	countered	Not En	countered	48	24.0					
SPP-130	137.0	Not En	countered	Not En	countered	24	0.75					
SPP-131	137.0	Not En	countered	Not En	countered	48	24.0					
SPP-132	137.0	Not En	countered	5.0	132.0	16	0.5					
SPP-133	137.0	Not En	countered	5.3	131.7	24	1.0					
SPP-134	140.0	Not En	countered	Not En	countered	N.	/A					
SPP-135	137.0	Not En	countered	Not En	countered	24	6.0					
SPP-136	137.0	Not En	countered	Not En	countered	16	0.5					
SPP-137	137.0	Not En	countered	Not En	countered	32	14.0					
SPP-138	136.0	Not En	countered	Not En	countered	24	1.25					

5.11 Supplemental Evaluation and Investigation

Final Design/Supplemental Investigation: Since these preliminary geotechnical investigation activities have been completed during the initial design phase, many critical assumptions or preliminarily details regarding assumed structural loads, existing and proposed elevations, etc. affect the geotechnical analysis. The preliminary considerations presented herein should be considered to help develop the optimum site design and grading, and Dynamic Earth should remain involved during final design. Supplemental investigation with soil borings and standard penetration testing with specific geotechnical recommendations should be developed as the design progresses and/or to satisfy tenant specific geotechnical requirements. In addition, supplemental

investigation with additional soil borings, rock probes, and/or test pit excavations should be completed to provide supplemental recommendations for the proposed site development.

Construction Monitoring and Testing: The recommendations presented herein are contingent on the owner retaining Dynamic Earth to perform inspection, testing and consultation during construction as described in previous sections of this report. Construction phase evaluation by means of proofroll inspections and soil probes will be needed to confirm adequate support for the proposed structures. Monitoring and testing should also be performed to verify that suitable materials are used for controlled fill, and that they are properly placed and compacted over suitable subgrade soils. Testing of fill placement will also be critical to limiting differential settlement.

6.0 GENERAL COMMENTS AND LIMITATIONS

Supplemental recommendations will be required upon finalization of conceptual site plans or if significant changes are made in the characteristics or location of the proposed structures. Dynamic Earth should be included as a consultant to the design team and should be provided final plans for review to confirm these criteria apply or to modify recommendations as necessary.

The recommendations presented herein should be utilized by a qualified engineer in preparing preliminary design concepts and site grading. The engineer should consider these recommendations as minimum physical standards that may be superseded by local and regional building codes and structural considerations. These recommendations are prepared for the use of the client for the specific project detailed and should not be used by any third party. These recommendations are relevant to the preliminary design phase and should not be substituted for construction specifications.

The possibility exists that conditions between test locations may differ from those at specific test pit locations, and conditions may not be as anticipated by the designers or contractors. In addition, the construction process may itself alter soil conditions. Therefore, Dynamic Earth Geotechnical Engineers or their representatives should observe and document the final construction procedures used and the conditions encountered, as well as conduct testing and inspection to ensure the design criteria are met or recommendations to address deviations are implemented.

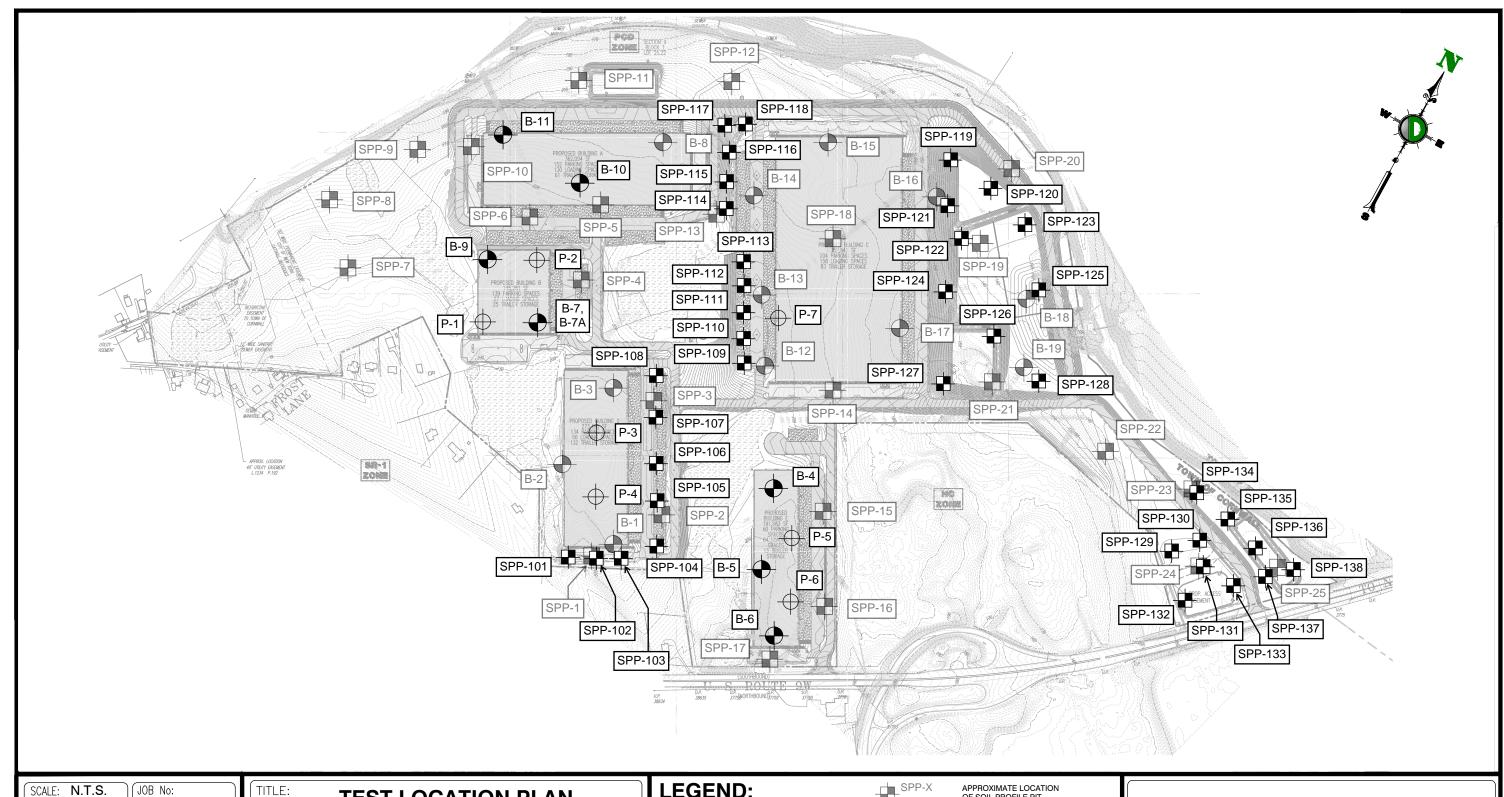
Dynamic Earth assumes that a qualified contractor will be employed to perform the construction work, and that the contractor will be required to exercise care to ensure all excavations are performed in accordance with applicable regulations and good practice. Particular attention should be paid to avoiding damaging or undermining adjacent properties and maintaining slope stability.

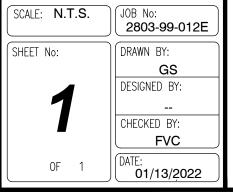
The exploration and analysis of the foundation conditions reported herein are presented to form a reasonable basis for preliminary site evaluation. The recommendations submitted for the proposed

construction are based on the available soil information and the preliminary design details furnished or assumed. Deviations from the noted subsurface conditions encountered during construction should be brought to the attention of the geotechnical engineer.

The geotechnical engineer warrants that the findings, recommendations, specifications, or professional advice contained herein have been promulgated after being prepared in accordance with generally accepted professional engineering practice in the fields of foundation engineering, soil mechanics, and engineering geology. No other warranties are implied or expressed.







TEST LOCATION PLAN

CORNWALL LOGISTICS, LLC **PROJECT** c/o TREETOP DEVELOPMENT, LLC PROPOSED INDUSTRIAL WAREHOUSE SECTION 9; BLOCK 1; LOT 25.22

2615 US ROUTE 9 WEST TOWN OF CORNWALL, ORANGE COUNTY, NEW YORK

DEC Client Code: 2803 Rev. # 0

LEGEND:



APPROXIMATE LOCATION OF SOIL **BORING - MARCH 2022**

OF SOIL BORING -

APPROXIMATE LOCATION



APPROXIMATE LOCATION OF SOIL PROFILE PIT -

APPROXIMATE LOCATION OF ROCK PROBE -NOVEMBER 2022

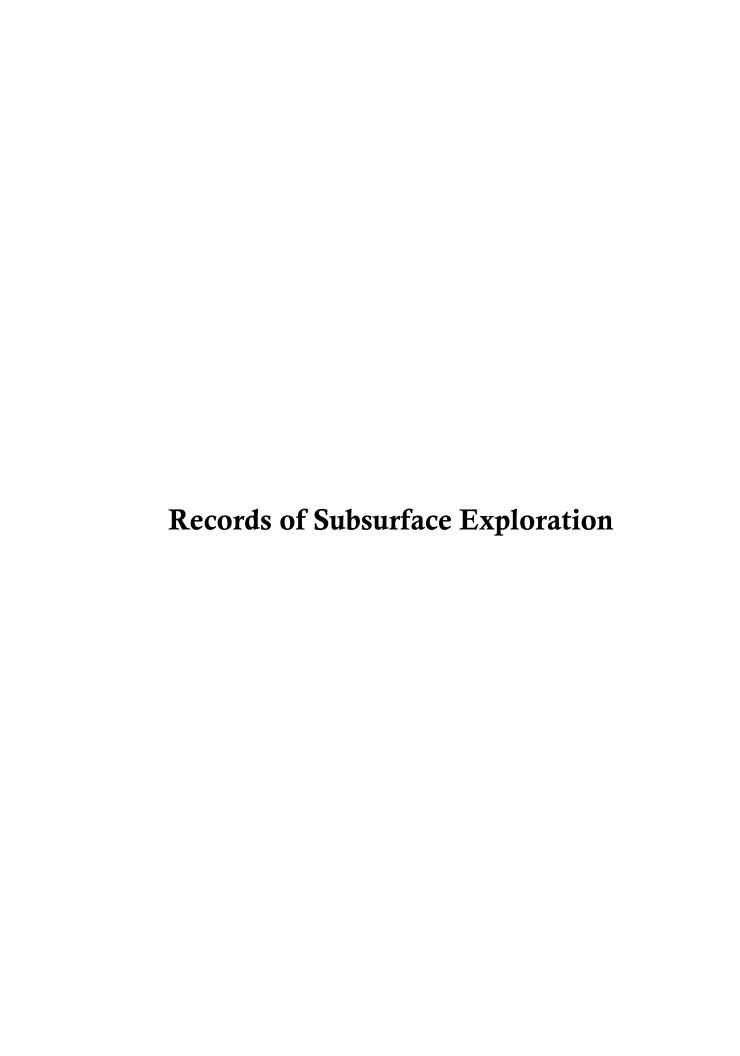
APPROXIMATE LOCATION OF SOIL PROFILE PIT -NOVEMBER 2022

NOTES:

- 1. THIS PLAN IS NOT FOR CONSTRUCTION AND WAS PREPARED TO ILLUSTRATE TEST LOCATIONS ONLY AND MAY NOT REFLECT THE MOST CURRENT REVISION OF THE BASE PLAN.
- 2. BASE PLAN OBTAINED FROM A DECEMBER 13, 2022 OVERALL GRADING PLAN PREPARED BY DYNAMIC ENGINEERING CONSULTANTS, P.C.



245 Main Street - Suite 110 Chester, NJ 07930 T: 908.879.7095 - F: 908.879.0222 www.dynamic-earth.com





Boring No : B-1

Page 1 of 1

Proposed Industrial Warehouse Project: Proj. No.: 2803-99-012E Cornwall Logistics, LLC c/o Treetop Location: 2615 US Route 9 West, Town of Cornwall, Orange County, NY Client: Development, LLC Additional Surface Elevation: Date Started: 03-17-2022 Depth EI. Depth EI. 230.0 feet **Groundwater Data** Groundwater Termination Depth: Date Completed: 03-17-2022 (ft) (ft) (ft) (ft) Data While Drilling: Proposed Location: Proposed Building D Logged by: J. Gomez NE Drill/Test Method: HSA/SPT General Borings At Completion: Contractor: NE Diedrich D50 Hammer Type: Auto Rig Type: Sample Information Depth Strata DESCRIPTION OF MATERIALS Blows per 6' or drill time RQD Remarks Depth Rec (ft) (Classification) Туре Ν Number (Feet) (in) (mm:ss) 6 inches of topsoil Surface Cover 2 2 No recovery 0.0-2.0 SS 4 1 2 3 No recovery 2 2 2.0-4.0 S-2 SS 0 7 5 4 Glacial Till & Gray coarse to fine gravel, little yellow brown clay, trace silt, trace Apparent perched Alluvial 2 2 coarse to fine sand, wet, loose (GC) water at 4.0 feet Deposits 4.0-6.0 7 S-3 SS 4 5 6 Yellow brown clay, some coarse to fine gravel, some coarse to fine sand, moist, stiff (CL) 4 4 Qp = 2.0 tsf 6.0-8.0 S-4 SS 16 13 9 15 Yellow brown coarse to fine sand and clay, some coarse to fine gravel, moist, dense (SC) 18 18 8.0-10.0 S-5 SS 13 36 Difficult drilling at 9 Weathered feet 18 35 Rock Bluish gray coarse to fine gravel, little coarse to fine sand, little yellow brown clay, moist, very dense (GC) 25 49 10.0-11.1 SS 5 99/7 50/1 Boring B-1 encountered refusal at approximately 11.5 feet below the ground surface on apparent rock.



Boring No: B-2

Page 1 of 1

Project: Proposed Industrial Warehouse Proj. No.: 2803-99-012E Cornwall Logistics, LLC c/o Treetop 2615 US Route 9 West, Town of Cornwall, Orange County, NY Client: Location: Development, LLC Additional Surface Elevation: 236.0 feet Date Started: 03-17-2022 Depth EI. EI. Depth **Groundwater Data** Groundwater Termination Depth: Date Completed: 03-17-2022 (ft) (ft) (ft) (ft) Data While Drilling: Proposed Location: Proposed Building D Logged by: J. Gomez NE Drill/Test Method: HSA/SPT General Borings Contractor: At Completion: NE Diedrich D50 Hammer Type: Auto Rig Type: Sample Information Depth Strata DESCRIPTION OF MATERIALS Blows per 6' or drill time RQD Remarks Depth (ft) (Classification) Ν Number Type (Feet) (in) (mm:ss) 4 inches of topsoil Surface Cover Alfa. 1 1 Yellow clay, some coarse to fine sand, little coarse to fine gravel, wet, 0.0-1.1 S-1 SS 51/7 Qp = 1.0 tsf8 hard (CL) 50/1 __ Apparent perched water at 1.0 feet Yellow silt, little coarse to fine gravel, little clay, moist, very stiff (ML) 6 8 2.0-4.0 SS 16 Qp = 2.0 tsf S-2 17 8 16 Difficult drilling at 4.0 Yellow brown clay, little silt, little coarse to fine gravel, moist, hard (CL) feet 12 Glacial Till & 4.0-6.0 Qp = 2.5 tsfS-3 SS 14 24 Alluvial 12 17 Deposits Yellow brown clay, little coarse to fine gravel, trace silt, moist, hard 12 15 6.0-8.0 S-4 SS 13 33 Qp = 2.5 tsf18 15 Yellow brown clay, some coarse to fine gravel, trace silt, trace coarse to fine sand, moist, very stiff (CL) 14 14 8.0-10.0 S-5 SS 12 29 Qp = 2.75 tsf15 18 Gray coarse to fine gravel, some silt, trace clay, trace coarse to fine sand, moist, dense (GM) 13 13 10.0-12.0 S-6 SS 10 39 26 32 Weathered Blue coarse to fine sand, little clay, trace coarse to fine sand, moist, 21 dense (GP) 15 15.0-17.0 S-7 SS 19 46 25 30 Auger refusal at 18.0 Bluish gray shale, moderately weathered, moderately hard, extremely feet 02:57 18.0-20.5 RC-1 NX 28 43 Rock 03:10 Rock core terminated due to 00:43 rock barrel jam Boring B-2 was terminated at approximately 20.5 feet below the ground surface



Boring No: B-3

Page 1 of 1

Proposed Industrial Warehouse Proj. No.: 2803-99-012E Cornwall Logistics, LLC c/o Treetop 2615 US Route 9 West, Town of Cornwall, Orange County, NY Client: Location: Development, LLC Additional Surface Elevation: Date Started: 03-18-2022 Depth EI. 228.0 feet EI. Depth **Groundwater Data** Groundwater Termination Depth: Date Completed: 03-18-2022 (ft) (ft) (ft) (ft) Data While Drilling: Proposed Location: Proposed Building D Logged by: 15.0 213.0 J. Gomez Drill/Test Method: HSA/SPT Contractor: General Borings At Completion: 12.0 216.0 Diedrich D50 Hammer Type: Auto Rig Type: Sample Information Depth Strata DESCRIPTION OF MATERIALS Blows per 6' or drill time RQD Remarks Depth (ft) (Classification) Ν Number Type (Feet) (in) 4 inches of topsoil Surface Cover 2 2 Yellow brown clay, little silt, moist, trace fine roots, moist, medium stiff 0.0-2.0 SS 10 4 Qp = 1.0 tsf 2 15 Yellow brown clay, some silt, little coarse to fine gravel, trace coarse to 12 11 fine sand, moist, very stiff (CL) 2.0-4.0 S-2 SS 19 Qp = 3.25 tsf 12 8 6 Yellow brown silt, some coarse to fine gravel, little clay, trace coarse to 6 fine sand, moist, very stiff (ML) 11 4.0-6.0 S-3 SS 4 19 Qp = 2.0 tsfGlacial Till & 8 10 Alluvial Deposits Bluish gray coarse to fine gravel, little clay, trace silt, trace coarse to 10 50/3 6.0-6.8 S-4 SS 3 50/3 fine sand, moist, very dense (GC) Yellow brown clay, some coarse to fine gravel, trace silt, trace coarse Qp = 1.5 tsf to fine sand, moist, stiff (CL) 6 6 8.0-10.0 S-5 SS 11 12 6 8 Qp = 2.5 tsf Yellow brown clay, some coarse to fine gravel, trace silt, trace coarse to fine sand, moist, very stiff (CL) 10 16 10.0-11.4 66/11 S-6 SS 14 Bluish gray coarse to fine gravel, little coarse to fine sand, moist, very dense (GP) 50/5 --Weathered Rock ∇_{15} 50/5 Bluish gray coarse to fine gravel, little coarse to fine sand, trace silt, 50/5 15.0-15.5 S-7 SS 2 wet, very dense (GW) Boring B-3 encountered refusal at approximately 15.5 feet below the ground surface on apparent rock.



Boring No : B-4

Page 1 of 1

Proposed Industrial Warehouse Project: Proj. No.: 2803-99-012E Cornwall Logistics, LLC c/o Treetop Location: 2615 US Route 9 West, Town of Cornwall, Orange County, NY Client: Development, LLC Additional Surface Elevation: Date Started: 11-21-2022 Depth EI. Depth EI. 207.0 feet **Groundwater Data** Groundwater Termination Depth: Date Completed: 11-21-2022 (ft) (ft) (ft) (ft) Data While Drilling: Proposed Building E Proposed Location: Logged by: A. Park NE HSA/SPT Drill/Test Method: Contractor: General Borings At Completion: NE Rig Type: Diedrich D50 Hammer Type: Auto Sample Information Depth Strata DESCRIPTION OF MATERIALS Blows per 6" or drill time Depth (Feet) Rec RQD Remarks (ft) (Classification) Ν Number Type (in) (mm:ss) 6 inches of topsoil 316 316 Surface Cover 6 4 Brown coarse to fine gravel, some coarse to fine sand, trace silt, 0.0-2.0 SS 12 16 moist, medium dense (GP) 10 19 Gray coarse to fine gravel, some coarse to fine sand, little silt, moist medium dense (GP) 42 50/4 2.0-4.0 S-2 SS 12 50/4 Glacial Till & Alluvial Deposits As above, moist (GP) 50/3 4.0-6.0 SS 2 S-3 50/3 50/2 6.0-6.2 S-4 50/2 No recovery SS Boring B-4 was terminated at approximately 6.2 feet below the ground surface.



Boring No: B-5

Page 1 of 1

Proposed Industrial Warehouse Project: Proj. No.: 2803-99-012E Cornwall Logistics, LLC c/o Treetop Location: 2615 US Route 9 West, Town of Cornwall, Orange County, NY Client: Development, LLC Additional Surface Elevation: Date Started: 11-21-2022 Depth EI. Depth EI. 196.0 feet **Groundwater Data** Groundwater Termination Depth: Date Completed: 11-21-2022 (ft) (ft) (ft) (ft) Data While Drilling: Proposed Building E Proposed Location: Logged by: A. Park NE Drill/Test Method: HSA/SPT Contractor: General Borings At Completion: NE Rig Type: Diedrich D50 Hammer Type: Auto Sample Information Depth Strata DESCRIPTION OF MATERIALS Blows per 6' or drill time Depth (Feet) RQD Remarks Rec (ft) (Classification) Ν Number Type (in) (mm:ss) 6 inches of topsoil Surface Cover 2 Light yellow brown silt, little medium to fine sand, trace coarse to fine gravel, moist, medium stiff (ML) $\,$ 1 0.0-2.0 SS 16 4 Qp = 2.5 tsf 2 5 Weathered Rock Gray coarse to fine gravel, some coarse to fine sand, trace silt, moist, very dense (GM) 8 27 2.0-4.0 S-2 SS 18 73 46 32 Glacial Till & Alluvial As above, moist, dense (GM) 17 25 Deposits 4.0-6.0 12 42 S-3 SS 45 17 As above, moist, very dense (GM) 50/4 40 6.0-8.0 50/4 S-4 SS 12 50/4 50/4 8.0-8.3 S-5 SS 3 Auger and spoon Boring B-5 was terminated at approximately 8.3 feet below the ground refusal surface



Boring No : B-6

Page 1 of 1

Project:	Proposed Ir	osed Industrial Warehouse Proj. No.: 2803-99-012E															
Location:	2615 US R	oute 9 We	est, Towr	n of Corn	wall, O	range	County,	NY						Client:	Cornwall Logistic Development, LL	s, LLC c/o T C	reetop
Surface Ele	vation:			202.0 fe	et		Date St	arted:	11-21-	2022		0	Depth	El.	Additional	Depth	EI.
Termination	Depth:			20.0 fee	et		Date Co	mpleted:	11-21-	2022		Groundwater Data	(ft)	(ft)	Groundwater Data		
Proposed L			Pro	posed Bu		E	Logged		A. P			While Drilling:	NE				
Drill/Test Me				HSA/SP	T		Contra		General	-	3	At Completion:	NE				
Hammer Typ	oe:			Auto			Rig Typ	e:	Diedric	h D50							
		Sample	Informa	tion			1										
Depth (Feet)	Number	Туре	Rec (in)	RQD %	Blows or dril (mm	l time	N	Depth (ft)	Strata	Strata			Classificati	MATERIALS on)		Remarks	
								-	Surface Cover	مالد مالد	6 4 i	inches of topsoil					
					1	3		-		тін	Υe	ellow brown silt, some coars	se to fine s	and, trace grav	rel, moist		
0.0-2.0	S-1	SS	8				6	_				nedium stiff (ML)					
					3	3		_									
								=			Ye	ellow brown silt, some coars	se to fine a	ravel trace co:	arse to fine		
					9	26						and, hard (ML)	oc to iiio g	iavoi, irado doi	aree to mie		
2.0-4.0	S-2	ss	10				76										
					50	41											
										ЩЦ							
					20	23						ellow brown coarse to fine s noist, very dense (SM)	sand, some	silt, little coars	se to fine gravel		
4060	6.3		4.4		20	23	64				: '''	iolot, very derioe (Givi)					
4.0-6.0	S-3	SS	14				61	5 —			:						
					38	50/3		-									
								5	Glacial Till &		: As	s above (SM)					
					28	34		_	Alluvial Deposits		:						
6.0-8.0	S-4	SS	24				74				:						
					40	40		-			:						
											: _{Ye}	ellow brown coarse to fine s	sand some	coarse to fine	gravel little silt		
					8	29		_			: m	noist, very dense (SM)	,··-		g , ,		
8.0-10.0	S-5	ss	4				79/11										
					50/5												
								10 —									
											:						
											:						
											:						
											:						
								_			:						
										0,000	G	ray coarse to fine gravel, so	ome silt, litt	le coarse to fin	e sand,		
					33	50/4		-		900	실 m	noist, very dense (SM)					
13.0-15.0	S-6	SS	8				50/4			000000000000000000000000000000000000000	Ž						
								_		ૢૺઌૣ૿ઌૺ	8						
								15 —		૦૦°%	3						
								-		0000							
								_	Weathered Rock	90°	겙						
								-	E Callered Hook	ۣ <i>ۣ</i> ٷ؞ٷ	2						
								-		ૢૺ૾૽ૣઌૢૺ	3						
								-		ૼૢઌૻ <i>૾</i> ૾૾ૼ	3						
										0000	₫.	a about (CAA)					
					50/4					90°	إ As ≨	s above (SM)					
18.0-20.0	S-7	SS	4				50/4	_		ૢૼૼૼૼઌૻૺૢ૽૽૽ૣ	Ž						
. 5.5 20.0							30/4			ૢ૾ૺઌૺૣ૽૾ૺ	S						
								20 —		کُر می ک	\$					Auger re 20.0	
								20			Т	Boring B-6 encountered re	fusal at appround surfa		feet below the	∠0.0	ieei
												g	round sulle				
								-									
								_	1								
								_									
								-									



Boring No : B-7

Page 1 of 1

Location: 2615 US Route 9 West, Town of Cornwall, Orange County, NY Client: Cornwall Logistics, LLC of Development, LLC	EI. (ft)
Termination Depth: 2.2 feet Date Completed: 11-21-2022 Proposed Location: Proposed Building B Logged by: A. Park While Drilling: Groundwater Data (ft) (ft) (ft) Data (ft) (ft) Data (ft)	
Termination Depth: 2.2 feet Date Completed: 11-21-2022 Proposed Location: Proposed Building B Logged by: A. Park While Drilling: V NE Groundwater Data (ft) (ft) Groundwater Data (ft) Data (ft)	(ft)
Drill/Test Method: HSA/SPT Contractor: General Borings At Completion: ▼ NE Hammer Type: Auto Rig Type: Mobile	
Sample Information	
Plays agr 6" Depth Strata DESCRIPTION OF MATERIALS	marks
Surface Cover SM/2 SM/2 2 inches of topsoil Yellow brown silt, some coarse to fine gravel, moist, stiff (ML)	
0020 84 88 12	2.25 tsf
2.0-2.2 S-2 SS 0 50/2 50/2 50/2 Boring B-7 encountered refusal at approximately 2.2 feet below the	
Op. April April	



 $\textbf{Boring No}: \mathsf{B}\text{-}\mathsf{7}\mathsf{A}$

Page 1 of 1

Proposed Industrial Warehouse 2803-99-012E Project: Proj. No.: Cornwall Logistics, LLC c/o Treetop Location: 2615 US Route 9 West, Town of Cornwall, Orange County, NY Client: Development, LLC Additional Surface Elevation: Date Started: 11-21-2022 Depth EI. Depth EI. 234.0 feet **Groundwater Data** Groundwater Termination Depth: Date Completed: 11-21-2022 (ft) (ft) (ft) (ft) Data While Drilling: Proposed Building B Proposed Location: Logged by: A. Park NE HSA/SPT Drill/Test Method: Contractor: General Borings At Completion: NE Hammer Type: Rig Type: Mobile Auto Sample Information Depth Strata DESCRIPTION OF MATERIALS Blows per 6' or drill time Depth (Feet) RQD Remarks (ft) (Classification) Туре Ν Number (in) (mm:ss) FILL Offset from B-7 Augered to 4 feet Light brown silt, some coarse to fine gravel, little coarse to fine sand 15 moist, stiff (ML) 4.0-6.0 SS 29 S-1 18 15 11 As above (ML) 23 16 6.0-8.0 52 S-2 SS 24 29 50/4 Gray coarse to fine gravel, some silt, little coarse to fine sand moist, dense (SM) Glacial Till & 26 27 Alluvial 8.0-10.0 S-3 SS 20 49 Weathered Rock Deposits 22 28 Qp = 4.5 tsf50/1 Light yellow silt, some coarse to fine gravel, trace medium to fine 13.0-13.5 SS 1 50/1 Boring B-7A encountered refusal at approximately 13.5 feet below the Auger refusal ground surface.



Boring No: B-8

Page 1 of 1

Project: Proposed Industrial Warehouse Proj. No.: 2803-99-012E Cornwall Logistics, LLC c/o Treetop 2615 US Route 9 West, Town of Cornwall, Orange County, NY Client: Location: Development, LLC Additional Surface Elevation: Date Started: 03-25-2022 Depth EI. 207.0 feet EI. Depth **Groundwater Data** Groundwater Termination Depth: Date Completed: 03-25-2022 (ft) (ft) (ft) (ft) Data Proposed Building A While Drilling: Proposed Location: Logged by: J. Gomez 2.0 205.0 Drill/Test Method: HSA/SPT Contractor: General Borings At Completion: 24.0 183.0 Rig Type: Diedrich D50 Hammer Type: Auto Sample Information Depth Strata DESCRIPTION OF MATERIALS Blows per 6' or drill time RQD Remarks Depth Rec (ft) (Classification) Ν Number Type (Feet) (in) (mm:ss) 6 inches of topsoil Surface Cover 1 4 Yellow brown clay, little silt, little fine gravel, trace coarse to fine sand, 0.0-2.0 SS 15 10 moist, roots, medium stiff (CL) Qp = 1.5 tsf 6 ∇ Yellow brown clay, little silt, little coarse to fine sand, trace coarse to 7 9 fine gravel, wet, stiff (CL) 2.0-4.0 SS 19 Qp = 0.5 tsf S-2 18 10 16 Yellow brown clay, some coarse to fine gravel, little silt, trace coarse to 11 fine sand, wet, stiff (CL) 4.0-6.0 S-3 SS 18 19 Qp = 0.5 tsf12 15 Bluish gray coarse to fine gravel, some clay, trace silt, trace coarse to fine sand, wet, dense (GP) 13 28 6.0-8.0 S-4 SS 12 43 Glacial Till & 15 16 Alluvial Deposits Bluish gray coarse to fine gravel, some coarse to fine sand, trace yellow brown silt, wet, dense (GP) 24 18 8.0-10.0 S-5 SS 3 31 13 14 Boulder at 10 feet Brown and bluish gray coarse to fine gravel, little coarse to fine sand, little clay, trace silt, wet, very dense (GP) Difficult drilling at 10 4 36 feet 10.0-12.0 S-6 SS 13 58 22 40 Boulder at 14 feet 50/3 --15.0-15.3 SS 50/3 Bluish gray coarse to fine gravel, trace coarse to fine sand, trace clay, wet, very dense (GP) S-7 3 Weathered Rock 50/1 20.0-20.1 S-8 SS 50/1 Bluish gray coarse gravel, trace coarse to fine sand, trace clay, wet, very dense (GP) Boring B-8 encountered refusal at approximately 20.1 feet below the ground surface on apparent rock.



Boring No: B-9

Page 1 of 1

Proposed Industrial Warehouse Project: Proj. No.: 2803-99-012E Cornwall Logistics, LLC c/o Treetop Location: 2615 US Route 9 West, Town of Cornwall, Orange County, NY Client: Development, LLC Additional Surface Elevation: Date Started: 11-21-2022 Depth EI. Depth EI. 230.0 feet **Groundwater Data** Groundwater Termination Depth: Date Completed: 11-21-2022 (ft) (ft) (ft) (ft) Data While Drilling: Proposed Building B Logged by: Proposed Location: A. Park NE HSA/SPT General Borings Drill/Test Method: At Completion: Contractor: NE Rig Type: Diedritch D50 Hammer Type: Auto Sample Information Depth Strata DESCRIPTION OF MATERIALS Blows per 6' or drill time Depth (Feet) RQD Remarks (ft) (Classification) Туре Ν Number (in) (mm:ss) 6 inches of topsoil Surface Cover 2 1 Light brown silt, little coarse to fine sand, trace coarse to fine gravel, 0.0-2.0 SS 16 6 trace medium roots, moist, very stiff (ML) Qp = 4.0 tsf 10 Light brown and gray coarse to fine gravel, little silt, trace coarse to fine sand, moist, hard (GM) 39 43 2.0-4.0 S-2 SS 20 70 27 40 Light brown silt, some coarse to fine gravel, trace coarse to fine sand moist, very stiff (ML) $\,$ Glacial Till & 18 Alluvial 4.0-6.0 Qp = 4.0 tsfS-3 SS 22 24 Deposits 10 13 As above (ML) 14 17 6.0-8.0 S-4 SS 12 31 Qp = 3.0 tsf14 20 As above (ML) 7 11 Qp = 4.0 tsf61/7 8.0-9.5 S-5 16 SS Weathered 50/1 --Gray coarse to fine gravel, some silt (GM) Rock Boring B-9 encountered refusal at approximately 9.5 feet below the ground surface.



Boring No : B-10

Page 1 of 1

Project:	Proposed Ir	dustrial	Warehou	ıse									Proj. No.:	2803-99-012E		
Location:	2615 US R	oute 9 W	est, Towi	n of Corr	wall, C	range	County,	NY					Client:	Cornwall Logistic	s, LLC c/o l C	reetop
Surface Ele	vation:	Route 9 West, Town of Cornwall 217.0 feet 4.4 feet Proposed Buildir HSA/SPT Auto Sample Information Blo or Tune Rec RQD or			et		Date St	arted:	11-23-	2022	Groundwater Data	Depth	EI.	Development, LL Additional	Depth	EI.
Termination				4.4 fee	t		Date Co	mpleted:	11-23-	2022		(ft)	(ft)	Groundwater - Data	(ft)	(ft)
Proposed L			Pro			Α	Logged		G. Ses		While Drilling:	NE				
Drill/Test Me					'!		Contrac		General	-	At Completion:	NE				
Hammer Ty	oe:	Camania	Informa				Rig Typ	e:	Diedrito	n D50						
Depth (Feet)	Number		Rec	RQD	or dri	per 6" Il time n:ss)	N	Depth (ft)	Strata			PTION OF I (Classificati	MATERIALS on)		Rem	arks
, ,			,			4		=	Surface Cover	عادد عادد د عادد ع	6 inches of topsoil					
0.0-2.0	S-1	SS	2				12				Light yellow brown silt and o sand, with cobbles and boul	coarse to fin ders, moist,	e gravel, some very stiff (ML)	coarse to fine		
						13			Glacial Till & Alluvial		As above, hard (ML)					
2.0-4.0	S-2	SS	15		30	36	64		Deposits						Qp > 4	4.0 tsf
			_		28	29	50/5		Weathered		Gray coarse to fine gravel a	nd coarse to	o fine sand mo	ist very dense		
4.0-4.4	S-3	SS	5				50/5		Rock	00°.C	weathered rock (GP)			/		
		SS 15 28				5 —			Boring B-10 encountered r	efusal at ap	proximately 4.4 athered rock.	feet below the				
											ground su	OII WC				
								=								
								-								
								10 —								
								10 — =								
								-								
								-								
								_=								
								——————————————————————————————————————								
								_								
								_								
								15 —								
								=								
								20 —								
								1								
								20 —								
					l											



Boring No : B-11

Page 1 of 1

Proposed Industrial Warehouse Project: Proj. No.: 2803-99-012E Cornwall Logistics, LLC c/o Treetop Location: 2615 US Route 9 West, Town of Cornwall, Orange County, NY Client: Development, LLC Additional Surface Elevation: Date Started: 11-23-2022 Depth EI. Depth EI. 209.0 feet **Groundwater Data** Groundwater Termination Depth: Date Completed: 11-23-2022 (ft) (ft) (ft) (ft) Data While Drilling: Proposed Building A Proposed Location: G. Seselgis Logged by: NE General Borings Drill/Test Method: HSA/SPT Contractor: At Completion: NE Rig Type: Diedritch D50 Hammer Type: Auto Sample Information Depth Strata DESCRIPTION OF MATERIALS Blows per 6' or drill time Depth (Feet) RQD Remarks (ft) (Classification) Ν Number Type (in) (mm:ss) 5 inches of topsoil Surface Cover 2 1 Yellow brown silt, little medium to fine sand, some coarse to fine 0.0-2.0 SS 18 9 gravel, moist, very stiff (ML) Qp = 2.25 tsf 14 Light yellow brown silt, little medium to fine sand, some coarse to fine gravel, moist, stiff (ML) 17 16 2.0-4.0 S-2 SS 17 29 Qp = 2.0 tsf Glacial Till & 13 13 Alluvial Deposits As above, with cobbles and boulders (ML) 50/4 50/4 4.0-6.0 SS S-3 1 As above (ML) 24 36 6.0-7.8 S-4 SS 24 77 Gray (weathered rock) coarse to fine gravel and coarse to fine sand, moist, very dense (GP) Weathered 41 50/4 Rock Boring B-11 encountered refusal at approximately 7.8 feet below the ground surface on weathered rock.



Boring No: B-12

Page 1 of 1

Project: Proposed Industrial Warehouse Proj. No.: 2803-99-012E Cornwall Logistics, LLC c/o Treetop 2615 US Route 9 West, Town of Cornwall, Orange County, NY Client: Location: Development, LLC Additional Surface Elevation: Date Started: 03-18-2022 Depth EI. 209.0 feet EI. Depth **Groundwater Data** Groundwater Termination Depth: Date Completed: 03-18-2022 (ft) (ft) (ft) (ft) Data While Drilling: Proposed Location: Proposed Building C Logged by: 5.0 204.0 J. Gomez Drill/Test Method: HSA/SPT Contractor: General Borings At Completion: 8.0 201.0 Diedrich D50 Hammer Type: Auto Rig Type: Sample Information Depth Strata DESCRIPTION OF MATERIALS Blows per 6' or drill time RQD Remarks Depth Rec (ft) (Classification) Ν Number Type (Feet) (in) (mm:ss) 6 inches of topsoil Surface Cover 2 2 Yellow brown clay, little silt, moist, trace fine roots, moist, medium stiff 0.0-2.0 SS 11 4 (CL) Qp = 1.0 tsf 2 3 Yellow brown silt, some clay, trace fine gravel, trace coarse to fine 4 8 sand, moist, very stiff (ML) 2.0-4.0 S-2 SS 24 Qp = 2.5 tsf 16 16 19 Yellow brown silt, some bluish gray, coarse to fine gravel, little blue 15 28 clay, trace coarse to fine sand, moist, very stiff (ML) \triangle 4.0-6.0 59 Qp = 3.0 tsfS-3 SS 11 31 50 Brown silt, some coarse to fine gravel, little coarse to fine sand, little clay, wet, very stiff (ML) 31 20 6.0-8.0 S-4 SS 7 47 Qp = 3.25 tsfGlacial Till & 27 30 Alluvial Deposits Yellow brown coarse to fine sand, some clay, little coarse to fine gravel, wet, dense (SC) 18 18 8.0-10.0 S-5 SS 18 32 14 26 Yellow brown clay, some silt, some coarse to fine sand, little coarse to fine gravel, wet, very stiff (CL-ML) $\,$ 11 41 10.0-11.1 SS 5 91/7 Qp = 2.5 tsf 50/1 Rough drilling at 11 feet Bluish gray coarse to fine sand, some coarse to fine gravel, little clay, trace silt, wet, very dense (SW) 50 50/3 Weathered 15.0-15.8 4 50/3 S-7 SS --Auger refusal at 17.0 Boring B-12 encountered refusal at approximately 17 feet below the feet ground surface on apparent rock.



Boring No: B-13

Page 1 of 2

Proposed Industrial Warehouse Proj. No.: 2803-99-012E Cornwall Logistics, LLC c/o Treetop 2615 US Route 9 West, Town of Cornwall, Orange County, NY Client: Location: Development, LLC Additional Surface Elevation: Date Started: 03-21-2022 Depth EI. 207.0 feet EI. Depth **Groundwater Data** Groundwater Termination Depth: Date Completed: 03-21-2022 (ft) (ft) (ft) (ft) Data While Drilling: Proposed Location: Proposed Building C Logged by: J. Gomez 6.0 201.0 Drill/Test Method: HSA/SPT Contractor: General Borings At Completion: 13.0 194.0 Diedrich D50 Hammer Type: Auto Rig Type: Sample Information Depth Strata DESCRIPTION OF MATERIALS Blows per 6' or drill time RQD Remarks Depth Rec (ft) (Classification) Ν Number Type (Feet) (in) (mm:ss) 6 inches of topsoil Surface Cover 2 4 Yellow brown silt, trace clay, trace fine sand, roots, moist, medium stiff 0.0-2.0 SS 12 8 to stiff (ML) 8 Yellow brown silt, some coarse to fine gravel, little coarse to fine sand, 15 18 moist, hard (ML) 2.0-4.0 S-2 SS 42 Qp = 4.25 tsf 14 24 26 Yellow brown silt, some clay, some coarse to fine gravel, trace coarse 15 25 to fine sand, moist, hard (ML) 4.0-6.0 40 S-3 SS 6 Qp = 4.0 tsf15 18 ∇ Yellow brown coarse to fine sand and clay, trace coarse to fine gravel, 21 18 6.0-8.0 S-4 SS 15 39 Glacial Till & 21 14 Alluvial Deposits Yellow brown clay, little silt, little coarse to fine gravel, trace coarse to fine sand, wet, very stiff (CL) 21 18 8.0-10.0 S-5 SS 18 29 Qp = 3.25 tsf 11 15 Yellow brown clay, some coarse to fine gravel, little silt, trace coarse to fine sand, wet, hard (CL) 15 13 10.0-12.0 S-6 SS 15 33 Qp = 4.5 tsf 20 34 Weathered 15.0-15.3 SS 50/3 50/3 S-7 Bluish gray coarse to fine gravel, trace silt, trace coarse to fine sand, 3 Auger refusal at 15.3 wet, very dense (GP) feet 03:13 Bluish gray shale, moderately to highly weathered, moderately hard, extremely fractured 02:57 02:36 03:18 03:20 Rock 15.5-25.0 RC-1 NX 91 18 02:47 02:54 02:30 03:01 02:43 Boring B-13 was terminated at approximately 25 feet below the ground



Boring No : B-14

Page 1 of 1

		114													Pa	age 1 of 1	
Project:	Proposed I													Proj. No.:	2803-99-012E	- II C o/c	Tractor
Location:	2615 US R	oute 9 W	est, Tow			range								Client:	Cornwall Logistic Development, LI Additional	C	
Surface Ele				198.0 fe			Date S		03-24-			Groundwater Data	Depth	El.	Groundwater	Doptiii	EI.
Termination	•			20.8 fee				ompleted:	03-24- J. Go			While Drilling:	(ft) 5.0	(ft) 193.0	Data	(ft)	(ft)
Proposed L Drill/Test M				HSA/SF			Logge		General			At Completion:	5.0	193.0			
Hammer Ty				Auto	•		Rig Ty		Diedric	-		, a completion.	0.0	100.0			
		Sample	Informa	tion													
Depth (Feet)	Number	Туре	Rec (in)	RQD %	or dri	per 6" Il time n:ss)	N	Depth (ft)	Strata				PTION OF I	MATERIALS on)		Ren	narks
			. ,		ļ .					316 316	. A i	inches of topsoil					
					1	2		-	Surface Cover	111/1		ellow brown silt, some coar	no to fino a	royal trace ala	y traca coerce	-	
0.0-2.0	S-1	SS	8				5					fine sand, moist, stiff (ML)		ravoi, iraco cie	ay, trace coarse	Qp =	1.5 tsf
					3	4		-									
								-		1111	Vc	ellow brown coarse to fine s	cand come	coarse to fine	arayel some		
					2	3		-				t, moist, medium dense (S		coarse to fine	graver, some		
2.0-4.0	S-2	SS	3				11				1						
					8	22		_			1						
										: : ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	7 DI	uish gray coarse to fine gra	aval little v	allow brown of	ov little eilt little		
					23	40		V =			co	parse to fine sand, wet, ver			ay, iittie siit, iittie		
4.0-6.0	S-3	SS	9				71	▼ ₅			2						
					31	18		1 -			#						
											7	lleur breum eleur eene ee	una ta fina	enerial little eil	t trans sasses to	4	
					11	30				V//.		ellow brown clay, some coa ie sand, wet, very stiff (CL)		gravei, little sii	t, trace coarse to		
6.0-8.0	S-4	SS	8				55			V//						Qp =	2.0 tsf
					25	38			Glacial Till & Alluvial	///							
										1 1901 9							
					30	35			Deposits	Y///		ellow brown clay, some coa ie sand, wet, very stiff (CL)		gravei, little sii	t, little coarse to		
8.0-9.8	S-5	SS	3				75			Y//,						Qp =	3.0 tsf
					40	50/3		40		V//.						.,	
								10		4/4/	74 0					1	
					24	23				10000000000000000000000000000000000000	GI	ray coarse to fine gravel, lit et, dense (GC-GM)	ttle coarse	to fine sand, lif	ttle silt, little clay,		
10.0-12.0	S-6	SS	4				43				2						
					20	32					\$						
											4						
)] #						
) ≇					Rough dr	illing at 13
								-			9					fe	et
										3 PH	5						
					30	50/2		15 —		ST3	BI	uish gray gravel, trace coa	ree to fine	eand trace eilt	wet verv	-	
15.0-15.7	S-7	SS	2				50/2	-		0000	de	ense (GP)		oaria, trace on	, wot, vory		
										0.00	2						
								-		go, ç	2						
								_		80.0	3						
								-)	00.0	3						
								_	Weathered Rock	0000	Ž						
								-		000	á						
								-		80°C	4						
								-		80°.	2						
					50	50/3		20 —			N	o recovery					
20.0-20.8	S-8	SS	0				50/3	-		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	3	,					
								1 -			В	oring B-14 encountered re			.8 feet below the	1	
								-				ground su	ii ace on a	oparent rock.			
								-									
								-									
								-									
								-									
								-									
								-									
								_									
								1	1	·						-	



Boring No: B-15

Page 1 of 1

Proposed Industrial Warehouse Proj. No.: 2803-99-012E Cornwall Logistics, LLC c/o Treetop 2615 US Route 9 West, Town of Cornwall, Orange County, NY Client: Location: Development, LLC Additional Date Started: 03-24-2022 EI. Surface Elevation: 183.0 feet Depth EI. Depth **Groundwater Data** Groundwater Termination Depth: Date Completed: 03-24-2022 (ft) (ft) (ft) (ft) Data While Drilling: Proposed Building C Logged by: Proposed Location: 15.0 168.0 J. Gomez HSA/SPT Drill/Test Method: Contractor: General Borings At Completion: 11.0 172.0 Rig Type: Diedrich D50 Hammer Type: Auto Sample Information Depth Strata DESCRIPTION OF MATERIALS Blows per 6' or drill time RQD Remarks Depth Rec (ft) (Classification) Ν Number Type (Feet) (in) (mm:ss) 6 inches of topsoil NG NG Surface Cover 2 1 Reddish brown silt, trace clay, trace fine roots, wet, very soft (ML) 0.0-2.0 SS 3 14 Qp = 0.5 tsf 2 3 Bluish gray coarse to fine gravel, little coarse to fine sand, trace ************** 9 11 reddish brown clay, trace silt, medium dense (GW) 2.0-4.0 SS 19 S-2 5 8 10 Bluish gray and brown coarse to fine gravel, some coarse to fine sand, 13 trace clay, moist, medium dense (GW) 4.0-6.0 S-3 SS 8 27 13 13 Bluish gray and brown coarse to fine sand, and some brown coarse to fine gravel, trace silt, trace clay, moist, medium dense (SW-SM) 13 11 <u>^</u> _ 6.0-8.0 S-4 SS 10 23 12 13 As above, dense (SW-SM) 13 16 8.0-10.0 S-5 SS 10 38 22 40 Glacial Till & 10 Possible boulder at Bluish gray and brown coarse to fine gravel, some coarse to fine sand, trace silt, moist, very dense (GP) Alluvial 10 feet 27 50 Deposits 10.0-12.0 S-6 SS 3 70 20 16 Bluish gray fine gravel, some blue clay, little coarse to fine sand, wet, dense (GC) 15 13 15.0-17.0 S-7 SS 6 31 18 18 20 Bluish gray coarse to fine gravel, little coarse to fine sand, trace silt, little clay, quartz, wet, very dense (GP) 13 44 Weathered 20.0-22.0 S-8 SS 5 71 Rock 27 28 Boring B-15 was terminated at approximately 22 feet below the ground surface



Boring No: B-16

Page 1 of 1

Proposed Industrial Warehouse Proj. No.: 2803-99-012E Cornwall Logistics, LLC c/o Treetop 2615 US Route 9 West, Town of Cornwall, Orange County, NY Client: Location: Development, LLC Additional Date Started: 03-24-2022 Depth EI. Surface Elevation: 153.0 feet EI. Depth **Groundwater Data** Groundwater Termination Depth: Date Completed: 03-25-2022 (ft) (ft) (ft) (ft) Data Northeastern SWM Basin While Drilling: 145.0 Logged by: 8.0 Proposed Location: J. Gomez HSA/SPT 145.0 Drill/Test Method: Contractor: General Borings At Completion: 8.0 Rig Type: Diedrich D50 Hammer Type: Auto Sample Information Depth Strata DESCRIPTION OF MATERIALS Blows per 6' or drill time RQD Remarks Depth Rec (ft) (Classification) Ν Number Туре (Feet) (in) (mm:ss) 3 inches of topsoil M/A Surface Cover 2 5 Yellow brown clay, and silt, little coarse to fine gravel, trace coarse to 0.0-2.0 SS 12 11 fine sand, trace fine roots, wet, stiff (CL-ML) 6 10 Gray coarse to fine gravel, little coarse to fine sand, little silt, trace 11 20 clay, moist, dense (GM) 2.0-4.0 SS 32 S-2 5 12 12 Bluish gray coarse to fine gravel, trace coarse to fine sand, trace silt, 32 moist, medium dense (GP) 4.0-6.0 S-3 SS 3 28 14 12 Bluish gray coarse to fine gravel, little coarse to fine sand, little silt, moist, medium dense (GM) 9 9 6.0-8.0 S-4 SS 7 18 9 12 Bluish gray coarse to fine gravel, some brown coarse to fine sand, trace silt, wet, medium dense (GP) 16 9 8.0-10.0 S-5 SS 12 19 10 11 \(\frac{1}{2}\)\(\frac{1}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}\)\(\frac{1}{2}\)\(\frac{1}\)\(\frac{1}\)\(\frac{1}\)\(\frac{1}\)\(\frac{1}\)\(\frac{1}\)\(\frac{1}\)\(\frac{1}\)\(\fra Glacial Till & Bluish gray coarse to fine gravel, little coarse to fine sand, trace silt, Alluvial wet, dense (GP) 28 23 Deposits 10.0-12.0 S-6 SS 1 41 Difficult drilling at 11 feet 18 19 Bluish gray coarse to fine gravel, some brown coarse to fine sand, little silt, wet, dense (GP-GM) 15 17 15.0-17.0 S-7 SS 4 33 16 24 20 Bluish gray clay, little coarse to fine gravel, little silt, wet, hard (CL-ML) 28 20 Weathered 20.0-22.0 S-8 SS 2 53 Rock 25 20 Boring B-16 was terminated at approximately 22 feet below the ground surface



Boring No : B-17

Page 1 of 2

Project:	Proposed In		Warehou											Proj. No.:	2803-99-012E	ige i oi z	
Location:	2615 US R				nwall, O	range	County,	NY						Client:	Cornwall Logistic	s, LLC c/o	Treetop
Surface Ele Termination Proposed L Drill/Test Me	vation: Depth: ocation: ethod:			164.0 fe 25.8 fee osed Bui HSA/SF Auto	eet et ilding C PT		Date St Date C Logged Contra	arted: ompleted: I by: ctor:		-2022 omez Borings	Groundwater While Drilling: At Completion:	Data ∇	Depth (ft) 5.0 6.0	EI. (ft) 159.0 158.0	Development LI Additional Groundwater Data	Depth (ft)	EI.
Hammer Ty	pe:	Sample	Informa	tion	Blows		Rig Typ	Depth	Strata	060 m			PTION OF N			Ren	narks
Depth (Feet)	Number	Туре	Rec (in)	RQD %	or drill (mm		N	(ft)	- 0	alke alke	Approximately 4 incl		(Classification	on)		rten	iidiks
0.0-2.0	S-1	ss	8		5	9	7	_	Surface Cover		Yellow brown clay, li		-	ots, moist, me	edium stiff (CL)	Qp = '	1.25 tsf
					13	13					Yellow brown coarse	to fine	sand and cla	ay, moist, me	dium dense (SC)		
2.0-4.0	S-2	SS	18		13	15	26	_								Difficult dr	illing at 4.0
4.0-6.0	S-3	ss	14		11	11	- 22	V ₅			Yellow brown clay, tr sand, moist to wet, v			ravel, trace co	oarse to fine	f€	eet 1.5 tsf
					11	10 43		V			Yellow brown clay, li (CL)	ttle coa	rse to fine gr	avel, trace sil	t, wet, very stiff		
6.0-8.0	S-4	SS	14	17 15												Qp =	2.0 tsf
8.0-10.0	S-5	SS 11 - 16 17 34 The standard of the standar											Qp =	2.0 tsf			
10.0-12.0	S-6	SS	21		11	18	17	_			Sand, trace sit, wet,	very su	iii (OL)			Qp =	1.25 tsf
15.0-17.0	S-7	SS	4		9 40	25	- 65	- 15			Blue coarse to fine s dense (GP)	and, litt	tle clay, trace	e coarse to fin	e sand, moist,		
19.0-20.9	RC-1	NX	23	0	02:			20 —	Boulder		Bluish gray shale, m fractured	oderate	ely hard, high	nly weathered	l, extremely		through it boulder
								- - - -	Glacial Till & Alluvial Deposits	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\							



Boring No: B-17

Page 2 of 2

Proposed Industrial Warehouse 2803-99-012E Project: Proj. No.: Cornwall Logistics, LLC c/o Treetop Location: 2615 US Route 9 West, Town of Cornwall, Orange County, NY Client: Development, LLC Additional Date Started: 03-24-2022 Surface Elevation: 164.0 feet Depth EI. Depth EI. **Groundwater Data** Groundwater Termination Depth: Date Completed: 03-24-2022 (ft) (ft) (ft) (ft) Data While Drilling: Proposed Building C Proposed Location: Logged by: J. Gomez 5.0 159.0 HSA/SPT Drill/Test Method: Contractor: General Borings At Completion: 158.0 6.0 Hammer Type: Rig Type: Diedrich D50 Auto Sample Information Depth Strata DESCRIPTION OF MATERIALS Blows per 6" or drill time Depth (Feet) Remarks RQD (ft) (Classification) Number Ν Type Glacial Till & Bluish gray coarse to fine gravel, trace silt, trace coarse to fine sand, wet, very dense (GP) 17 50/3 25.0-25.8 S-8 SS 10 50/3 Alluvial Boring B-17 encountered refusal at approximately 25.8 feet below the ground surface on apparent rock.



Boring No: B-18

Page 1 of 1

Proposed Industrial Warehouse Proj. No.: 2803-99-012E Cornwall Logistics, LLC c/o Treetop 2615 US Route 9 West, Town of Cornwall, Orange County, NY Client: Location: Development, LLC Additional Surface Elevation: Date Started: 03-22-2022 Depth EI. 141.0 feet EI. Depth **Groundwater Data** Groundwater Termination Depth: Date Completed: 03-22-2022 (ft) (ft) (ft) (ft) Data Northeastern SWM Basin While Drilling: Proposed Location: Logged by: J. Gomez 10.0 131.0 HSA/SPT Drill/Test Method: Contractor: General Borings At Completion: 12.0 129.0 Rig Type: Diedrich D50 Hammer Type: Auto Sample Information Depth Strata DESCRIPTION OF MATERIALS Blows per 6' or drill time RQD Remarks Depth (ft) (Classification) Ν Number Туре (Feet) (in) 6 inches of topsoil M/A Surface Cover 1 5 Reddish brown clay, some silt, some coarse to fine gravel, trace coarse to fine sand, moist, stiff (CL-ML) Glacial Till & 0.0-2.0 SS 10 11 Qp = 0.5 tsf Alluvial 6 6 Deposits Bluish gray coarse to fine gravel, little coarse to fine sand, little silt, 20 27 trace clay, moist, very dense (GM) 2.0-4.0 SS S-2 12 57 30 26 Difficult drilling at 4 Gray coarse to fine gravel, some coarse to fine sand, trace silt, trace feet 18 clay, moist, very dense (GP) 39 4.0-6.0 S-3 SS 9 68 29 21 Gray coarse to fine gravel, some coarse to fine sand, little clay, little 27 22 silt, moist, very dense (GC-GM) 6.0-7.3 S-4 SS 5 72/9 50/3 Weathered Gray coarse to fine gravel, little coarse to fine sand, little clay, trace Rock 23 34 silt, moist, very dense (GC) 8.0-9.2 84/8 S-5 SS 3 50/2 Bluish gray coarse to fine sand, and coarse to fine gravel, trace silt, trace clay, wet, very dense (SM) 21 27 10.0-12.0 S-6 SS 7 76 49 25 Auger refusal at 14 Bluish gray shale, moderately hard, highly weathered, extremely feet 02:36 01:42 14.0-19.0 RC-1 NX 30 8 01:39 Rock 02:17 01:43 Boring B-18 was terminated at approximately 19 feet below the ground surface



Boring No : B-19

Page 1 of 2

	E	1K	IH														Pa	ige 1 of 2	
Project:	Proposed I	Proposed Industrial Warehouse 2615 US Route 9 West, Town of Cornwall, Orange County, NY														Proj. No.:	2803-99-012E		
Location:	2615 US R	oute 9 W	est, Tow	n of Corn	nwall, C	Orange	County,	NY								Client:	Cornwall Logistic Development, LI Additional	cs, LLC c/o _C	Treetop
Surface Ele	vation:			141.0 fe	et		Date S	arted:		03-22	2022	Groundw	ater Data		Depth	EI.	Additional Groundwater	Depth	EI.
Termination	•			27.0 fee				omplete	d:	03-22				,	(ft)	(ft)	Data	(ft)	(ft)
Proposed L Drill/Test Me			Northe	astern S\ HSA/SF		asin	Logged			J. Go General		While Drillin At Complet			4.0 6.0	137.0 135.0			
Hammer Ty				Auto			Rig Ty			Diedric	-	At Complet	O11. ¥	+	0.0	133.0			
inaminer ry	pe.	Sample	Informa				INIG IV	,c.		Dicunc	11 000								
		Campic	IIIIOIIIIa		Blows	s per 6"		Dep	th	Strata			DESCI	RIPT	TION OF	MATERIALS		_	
Depth (Feet)	Number	Туре	Rec (in)	RQD %	or dri	ill time n:ss)	N	(ft)							Classificat			Rem	narks
(, 551)			()	,,,	<u> </u>						Lab. ab	5 inches of top	9						
					1	1			Ξ	Surface Cover	316 316 7 316 3	<u>'</u>		_					
0.0-2.0	S-1	SS	7				4				[///]	Brown clay, littl	e siit, trace	fine	roots, m	oist, medium	Stiff (CL)	On =	1.5 tsf
			'		3	4			₫		[///								
					Ŭ	<u> </u>			Ξ		////								
					6	5			₫			Brown silt, little sand, moist, sti		coar	se to fine	gravel, trace	coarse to fine		
2.0-4.0	S-2	SS	8		L	L	14					,,	()					On =	1.0 tsf
2.0 4.0	02				9	25	'-		₫									Qp	1.0 101
					9	23		∇											
					14	13			Ē		ૢૢૢૢૢૢૢ૽૾ૢઽૣૼ	Bluish gray coa wet, very dense		grav	vel, and c	oarse to fine	sand, little clay,		
4.0-6.0	S-3	SS	8		14	13	36	_	1		9000	wet, very derise	(00)						
4.0-6.0	5-3	33	0		00	0.7	7 30	5 -			0.0								
					23	37		\blacksquare			10000000000000000000000000000000000000							D:#:	I:III:4 O
		4 SS 14 26 16 30																Irilling at 6 eet	
6000	6.4																		
6.0-8.0	5-4																		
															1				
00400	0.5																		
8.0-10.0	S-5	SS	12				49		Ξ		[///]							Qp = '	1.25 tsf
					19	20					[///								
								10 -			Y///	As above, very	stiff (CL)						
					32	13			Ξ		Y///								
10.0-12.0	S-6	SS	16				27				V///							Qp =	1.0 tsf
					14	15					////								
								1			[///]								
											[///								
								-			Y///								
											Y///								
									Ē		V///								
											V///								
450450	0.7				39	50/5	50/5	15				Bluish gray coa			vel, some	blue clay, little	e coarse to fine	1	
15.0-15.9	S-7	SS	8				50/5					sand, wet, very	dense (G0	C)					
									=										
									=										
								-	Ī		1272								
									=		6762								
									_										
									=	Weathered Rock	7. Ž								
								-											
											7. £								
20.0.00.0	0.0	000			48	50/3	50/2	20			(, ,)				vel, some	blue coarse t	to fine sand, little	1	
20.0-20.8	S-8	SS	6				50/3		=		ૢૼ૾ૺૺૺઌૢૼ	clay, wet, very	dense (GP)					
								-			ૢૺૺ૾ૢઌૺૢૺ								
									=		ું જુંત્રી								
							+	1	-			Bluish gray sha	le, modera	ately	hard, hig	hly weathered	d, extremely		fusal at 22 eet
		01:59 fractured												16	æı				
					01	:58			-	Rock									
							+												
22.0-27.0	RC-1	NX	55	0	02	2:06			-										
	l	1		1			1	1 .	=	1	Y/ <i>}</i> }}							1	



Boring No: B-19

Page 2 of 2

Proposed Industrial Warehouse Proj. No.: 2803-99-012E Project: Cornwall Logistics, LLC c/o Treetop
Development, LLC
Additional Depth El. Location: 2615 US Route 9 West, Town of Cornwall, Orange County, NY Client: Date Started: 03-22-2022 EI. Surface Elevation: 141.0 feet Depth EI. Depth **Groundwater Data** Groundwater Termination Depth: Date Completed: 03-22-2022 (ft) (ft) (ft) (ft) Data While Drilling: Northeastern SWM Basin Proposed Location: Logged by: 4.0 137.0 J. Gomez HSA/SPT Drill/Test Method: Contractor: General Borings At Completion: 135.0 6.0 Hammer Type: Auto Rig Type: Diedrich D50 Sample Information Depth (ft) Strata DESCRIPTION OF MATERIALS Blows per 6" or drill time (mm:ss) Depth (Feet) Remarks Rec RQD (Classification) Number Ν Type (in) 02:21 22.0-27.0 RC-1 NX 55 0 Rock As above 01:45 Boring B-19 was terminated at approximately 27 feet below the ground surface.



Probe No.: P-1
Page 1 of 1

2803-99-012E Proposed Industrial Warehouse Proj. No.: Project: Cornwall Logistics, LLC c/o Treetop Location: US Highway 9W, Cornwall, Orange County, New York Client: Development, LLC Surface Elevation: 232.0 Date Started: 12/13/22 **Ground Water** Depth El. Additional Depth El. Termination Depth: 50 feet Date Completed: 12/13/22 Data (ft) (ft) **Ground Water** (ft) (msl) G. Seselgis **Proposed Location:** While Drilling: Building B Logged by: 30.0 202.0 Drill/Test Method: Contractor: Northwest Explosives At Completion: NE Probe --IR ECM-590 Rig Type: Sample Information Blows per Depth DESCRIPTION OF MATERIALS (E) Depth Strata Remarks RQD Ν (ft) (Classification) Rec ((Feet) or drill Description based on cuttings Glacial Till & 0-10 Brown silty sand (25 seconds to advance 10 feet) Alluvial Suspected Deposits cobbles/boulders within glacial till 10 10-22 Gray Rock (2 minutes 30 seconds to advance 12 feet) 22-34 Gray Rock (5 minutes 10 seconds to advance 12 feet) Wet at 30 feet Rock 34-46 Gray Rock (6 minutes 40 second to advance 12 feet) Probe P-1 was terminated at approximately 50 46-50 Gray Rock (2 minutes to advance 4 feet) feet below the ground surface



Probe No.: P-2

Page 1 of 1

Project:		sed Inc										Proj. No.	:	2803-99-012E Cornwall Logistics	IIC c/o	Treeton
Location:			9W, (nge C			rk			Client:		Development, LLC	2	_
Surface Ele Termination Proposed I Drill/Test	on Dep Locatio	th: n:		50 i Build	3.0 feet ling B obe				G.	12/13/22 12/13/22 Seselgis est Explosives		Depth (ft) NE NE	El. (ft)	Additional Ground Water	Depth (ft)	El. (msl)
							Rig Ty	ype:	IR I	ECM-590						
Depth (Feet)	Number	Type Type	Rec (in)	mation % QO %	Blows 6" or di	•	N	Depth (ft)	Strata		DESCRIPTIO (Cla	ON OF MA		S	Rem	arks
0-10									Glacial Till & Alluvial Deposits		and (40 seconds to a	advance 10	feet)		Description cu Susp cobbles/ within g	ttings ected boulders
10-16									Deposits	Brown silty s						
16-22								20		Gray rock (1						
22-34								30	Rock	Gray rock (3	minutes 45 seconds	to advance	e 12 feet)			
34-46								40		Gray rock (7	minutes 20 seconds	to advance	e 12 feet)		Probe l	
46-50								50		Gray rock (1	minute 50 seconds	to advance	4 feet)		termin approxin feet bel ground	nately 50 ow the



Probe No.: P-3
Page 1 of 1

2803-99-012E Proposed Industrial Warehouse Proj. No.: Project: Cornwall Logistics, LLC c/o Treetop Location: US Highway 9W, Cornwall, Orange County, New York Client: Development, LLC Surface Elevation: 237.0 Date Started: 12/13/22 **Ground Water** Depth El. Additional Depth El. Termination Depth: 50 feet Date Completed: 12/13/22 Data (ft) (ft) **Ground Water** (ft) (msl) G. Seselgis While Drilling: **Proposed Location:** Building D Logged by: NE --Drill/Test Method: Northwest Explosives At Completion: NE Probe Contractor: --IR ECM-590 Rig Type: Sample Information Blows per Depth DESCRIPTION OF MATERIALS Depth Strata Remarks RQD Ν (ft) (Classification) Rec ((Feet) or drill Description based on cuttings Glacial Till & 0-10 Brown silty sand (35 seconds to advance 10 feet) Alluvial Suspected Deposits cobbles/boulders within glacial till 10 10-22 Gray rock (3 minutes to advance 12 feet) 22-34 Gray rock (3 minutes 50 seconds to advance 12 feet) Rock 34-46 Gray rock (3 minutes 40 seconds to advance 12 feet) Probe P-3 was terminated at approximately 50 46-50 Gray rock (1 minute to advance 4 feet) feet below the ground surface



Probe No.: P-4
Page 1 of 1

2803-99-012E Proposed Industrial Warehouse Proj. No.: Project: Cornwall Logistics, LLC c/o Treetop Location: US Highway 9W, Cornwall, Orange County, New York Client: Development, LLC Surface Elevation: 237.0 Date Started: 12/13/22 **Ground Water** Depth El. Additional Depth El. Termination Depth: 50 feet Date Completed: 12/13/22 Data (ft) (ft) **Ground Water** (ft) (msl) G. Seselgis While Drilling: **Proposed Location:** Building D Logged by: NE --Drill/Test Method: Northwest Explosives At Completion: NE Probe Contractor: --IR ECM-590 Rig Type: Sample Information Blows per Depth DESCRIPTION OF MATERIALS (E) Depth Strata Remarks RQD Ν (ft) (Classification) Rec ((Feet) or drill Description based on cuttings Glacial Till & 0-10 Brown silty sand (35 seconds to advance 10 feet) Alluvial Suspected Deposits cobbles/boulders within glacial till 10 10-22 Gray rock (1 minute 30 seconds to advance 12 feet) 22-34 Gray rock (2 minutes 50 seconds to advance 12 feet) Rock Gray rock (4 minutes 40 seconds to advance 12 feet) 34-46 Probe P-4 was terminated at approximately 50 46-50 Gray rock (50 seconds to advance 4 feet) feet below the ground surface



10-22

22-34

34-46

46-50

Probe No.: P-5 PROBE LOG Page 1 of 1 2803-99-012E Proposed Industrial Warehouse Proj. No.: Project: Cornwall Logistics, LLC c/o Treetop Location: US Highway 9W, Cornwall, Orange County, New York Client: Development, LLC Surface Elevation: 210.0 Date Started: 12/13/22 **Ground Water** Depth El. Additional Depth El. Termination Depth: 50 feet Date Completed: 12/13/22 Data (ft) (ft) **Ground Water** (ft) (msl) G. Seselgis While Drilling: **Proposed Location:** Building E Logged by: NE --Drill/Test Method: Northwest Explosives At Completion: NE Probe Contractor: --IR ECM-590 Rig Type: Sample Information Blows per Depth DESCRIPTION OF MATERIALS Ξ Depth Strata Remarks RQD Ν (ft) (Classification) Rec ((Feet) or drill Description based on cuttings 0-10 Brown silty sand (35 seconds to advance 10 feet) Suspected cobbles/boulders within glacial till Glacial

Brown silty sand (1 minute 20 seconds to advance 12 feet)

Gray rock (3 minutes 10 seconds to advance 12 feet)

Gray rock (2 minutes 50 seconds to advance 12 feet)

Gray rock (50 seconds to advance 4 feet)

Probe P-5 was terminated at approximately 50

feet below the ground surface

10

Till & Alluvial Deposits

Rock

40



Probe No.: P-6
Page 1 of 1

2803-99-012E Proposed Industrial Warehouse Proj. No.: Project: Cornwall Logistics, LLC c/o Treetop Location: US Highway 9W, Cornwall, Orange County, New York Client: Development, LLC Surface Elevation: 208.0 Date Started: 12/13/22 **Ground Water** Depth El. Additional Depth El. Termination Depth: 50 feet Date Completed: 12/13/22 Data (ft) (ft) **Ground Water** (ft) (msl) G. Seselgis While Drilling: **Proposed Location:** Building E Logged by: NE --Drill/Test Method: Northwest Explosives At Completion: NE Probe Contractor: --IR ECM-590 Rig Type: Sample Information Blows per Depth DESCRIPTION OF MATERIALS Depth Strata Remarks RQD Ν (ft) (Classification) Rec ((Feet) or drill Description based on cuttings Glacial Till & 0-10 Brown silty sand (2 minutes to advance 10 feet) Alluvial Suspected Deposits cobbles/boulders within glacial till 10 10-22 Gray rock (6 minutes to advance 12 feet) 22-34 Gray rock (5 minutes 30 seconds to advance 12 feet) Rock 34-46 Gray rock (4 minutes to advance 12 feet) Probe P-6 was terminated at approximately 50 46-50 Gray rock (1 minute 30 seconds to advance 4 feet) feet below the ground surface



Probe No.: P-7
Page 1 of 1

2803-99-012E Proposed Industrial Warehouse Proj. No.: Project: Cornwall Logistics, LLC c/o Treetop Location: US Highway 9W, Cornwall, Orange County, New York Client: Development, LLC Surface Elevation: 205.0 Date Started: 12/13/22 **Ground Water** Depth El. Additional Depth El. Termination Depth: 50 feet Date Completed: 12/13/22 Data (ft) (ft) **Ground Water** (ft) (msl) G. Seselgis While Drilling: **Proposed Location:** Building C Logged by: NE --Drill/Test Method: Northwest Explosives At Completion: NE Probe Contractor: --IR ECM-590 Rig Type: Sample Information Blows per Depth DESCRIPTION OF MATERIALS Ξ Depth Strata Remarks RQD Ν (ft) (Classification) Rec ((Feet) or drill Description based on cuttings Glacial Till & 0-9 Brown silty sand (1 minute to advance 10 feet) ~ 6 seconds per foot Alluvial Suspected Deposits cobbles/boulders within glacial till 9-10 Gray rock (6 seconds to advance 1 foot) 10 10-22 Gray rock (2 minutes 40 seconds to advance 12 feet) 22-34 Gray rock (5 minutes 20 seconds to advance 12 feet) 30 Rock Gray rock (9 minutes to advance 12 feet) 34-46 Probe P-7 was terminated at approximately 50 46-50 Gray rock (2 minutes 40 seconds to advance 4 feet) feet below the ground surface



Soil Profile Pit: <u>SPP-1</u>
Page <u>1</u> of <u>1</u>

Project: Proposed Industrial Warehouse Project No.: 2803-99-012E Location: US Highway 9W, Town of Cornwall, Orange County, New York
Surface Elevation (ft): 226.0 Date Started: Cornwall Logistics, LLC c/o Treetop Development, LLC Client: 226.0 9.8 SWM Date Started: Date Completed: 3/1/22 Groundwater Data Groundwater Comments 3/1/22 J. Gomez Termination Depth (ft): (ft) (ft) Proposed Location: Excavation / Test Visual Observation Method: Logged by: Contractor: Carroccia Groundwater Deere Excavator Rig Type: Mottling STRUCTURE WATER CONTENT COLOR ROOTS LAB RESULTS DEPTH (IN) SOIL TEXTURE COARSE FRAGMENTS (%) Type Depth Resistance to Rupture Grade Size Stickiness Plasticity Distinctness Topography Quantity Size GRAVEL COBBLES STONES BOULDERS CMN (20% MEDIUM TO VERY COARSE 0-10 SILT LOAM MOIST FRIABLE VERY PLASTIC NONE Dark Brown (7.5YR 3/3) SUBANGULAR MODERATE VERY FINE BLOCKY GRAVEL COBBLES STONES BOULDERS Yellowish Brown (10YR 5/4) CMN (20% MAX) 10-26 CLAY LOAM MOIST FRIABLE VERY PLASTIC CLEAR <2.5" WAVY NONE BAG 18 SUBANGULAR MODERATE VERY FINE BLOCKY COBBLES STONES BOULDERS GRAVEL SLIGHTLY STICKY FEW (5% MAX) FINE TO MEDIUM 48 26-70 GRAVELLY MOIST FRIABLE CLEAR <2.5" WAVY NONE BAG S-2 PT-1 @ 48" = 2.0 IPH SUBANGULAR BLOCKY WEAK MEDIUM 15 GRAVEL COBBLES STONES BOULDERS Olive Brown (2.5Y 4/4) GRAVELLY & SILTY CLAY LOAM SLIGHTLY STICKY SLIGHTLY PLASTIC 70-116 MOIST FRIABLE NONE NONE BAG 80 S-3 SUBANGULAR BLOCKY MEDIUM

Additional Remarks: Two inches of snow cover encountered on ground surface. Soil Profile Pit SPP-1 encountered refusal at approximately 9.8 feet below the ground surface due to boulders.



Soil Profile Pit: <u>SPP-2</u>
Page <u>1</u> of <u>1</u>

	Proposed Industrial		O Ct N	VI-									2803-99-012E	C -/- Tt D											
Surface Ele		wn of Cornwall, 220.0	Orange County, New Date Started:	TOTK			3/2/22	I			I		Cornwall Logistics, LI Depth	LC c/o Treetop Develop	ment, LLG	El.									
Termination		6.7	Date Started: Date Completed:				3/2/22		Groundw	ater Data			(ft)			EL. (ft)					Groundwa	ater Comm	ents		
Proposed Lo Excavation		SWM		Logged by:			. Gomez		Seepage				NE			-									
Excavation	Visual Observation			Contractor:			arroccia		Groundwater				NE						Light Gray (10 YR	7/1) mottling 22"	- 52" due to pot	ential perd	hed conditi	on	
Method:				Rig Type:		Deer	e Excavator		Mottling				1.8			218.2									
DEPTH (IN)	COLOR	2011	TEXTURE		COARSE FRA	CMENTS (V)			STRUCTURE		WATER		CONSISTENCY		BOUN	IDARY	ROO	TS		MOTTLING			SAMPLING	LAB RESU	II TO
DEF IT (IN)	SSEUK	SOIL	TEXTURE		COARSE FRA	40mEH15 (%)		Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography	ROO		Quantity	Size	Contrast	Туре	Depth (in)	No.	LIJ
				GRAVEL	COBBLES	STONES	BOULDERS																		
0-9	TOPSOIL Dark Brown (7.5YR 3/3)		SILT LOAM	5	0	0	0	SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	CMN (20% MAX)	MEDIUM TO VERY COARSE	NONE						
				GRAVEL	COBBLES	STONES	BOULDERS																		
9-22	Brown (10YR 5/3)		SILTY CLAY	10	5	0	0	SUBANGULAR BLOCKY	MODERATE	FINE	MOIST	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC	CLEAR <2.5"	WAVY	MNY (>20% MAX)	FINE TO COARSE	NONE			BAG	20	S-1	
				GRAVEL	COBBLES	STONES	BOULDERS																		
22-52	Yellowish Brown (10YR 5/4)	GRAVELLY	SANDY LOAM	20	10	5	0	SUBANGULAR BLOCKY	WEAK	FINE	MOIST	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC	CLEAR <2.5"	WAVY	FEW (5% MAX)) FINE	FEW (5% MAX)	MEDIUM 5MM-15MM	DISTINCT	BAG	36	S-2 PT-2 @ 36" =	5.0 IPH
				GRAVEL	COBBLES	STONES	BOULDERS																		
52-80	Olive Brown (2.5Y 4/4)	GRAVELLY & COBBLY	SILTY CLAY LOAM	30	15	10	5	SUBANGULAR BLOCKY	WEAK	FINE	MOIST	FRIABLE	SLIGHTLY STICKY	SLIGHTLY PLASTIC			NONE		NONE			BAG	70	S-3	

Additional Remarks: One to two inches of snow cover encountered on ground surface. Weathered rock encountered between 52" and 80". Soil Profile Pit SPP-2 encountered refusal at approximately 6.7 feet below the ground surface due to rock.



Page <u>1</u> of <u>1</u>

Soil Profile Pit: SPP-3

	Proposed Industrial												2803-99-012E												
	US Highway 9W, To	wn of Cornwall,	Orange County, New	York			3/1/22			ı				LC c/o Treetop Develop	ment, LLC	_									
Surface Ele Termination		222.0 9.2	Date Started: Date Completed:				3/1/22		Groundwa	ater Data			Depth (ft)		1	El.					Groundwa	ter Comme	ents		
Proposed L Excavation		SWM		Logged by:		J.	Gomez		Seepage				NE												
Excavation	Visual Observation			Contractor:			arroccia		Groundwater				NE												
Method:				Rig Type:		Deer	e Excavator		Mottling				NE												
DEPTH (IN	COLOR	SOIL	TEXTURE		COARSE FRA	GMENTS (%)			STRUCTURE		WATER		CONSISTENCY		BOUN	IDARY	ROO	TS		MOTTLING			SAMPLING		RESULTS
DE: 111 (III)			TEXTORE		OOMIOE I IIA			Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography			Quantity	Size	Contrast	Туре	Depth (in)	No.	REGUETO
				GRAVEL	COBBLES	STONES	BOULDERS																		
0-8	TOPSOIL Dark Brown (7.5YR 3/3)		SILT LOAM	5	0	0	0	SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	CMN (20% MAX)	MEDIUM TO VERY COARSE	NONE						
				GRAVEL	COBBLES	STONES	BOULDERS																		
8-60	Yellowish Brown (10YR 5/4)		SILTY CLAY	20	10	5	5	SUBANGULAR BLOCKY	MODERATE	FINE	MOIST	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC	CLEAR <2.5"	WAVY	CMN (20% MAX)	FINE TO MEDIUM	NONE			BAG	30	S-1	
				GRAVEL	COBBLES	STONES	BOULDERS																		
60-90	Brown (10YR 5/3)	GRAVELLY & COBBLY	SILTY CLAY LOAM	30	20	10	5	SUBANGULAR BLOCKY	MODERATE	FINE	MOIST	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC	GRADUAL <5"	WAVY	NONE		NONE			BAG	70	S-2 PT-3 @	8 48" = 2.5 IPH
				GRAVEL	COBBLES	STONES	BOULDERS																		
90-110	Brown (10YR 5/3)	GRAVELLY & COBBLY	SILTY CLAY LOAM	30	40	20	5	SUBANGULAR BLOCKY	WEAK	COARSE	MOIST	HARD	NONSTICKY	NONPLASTIC			NONE		NONE			BAG	96	S-3	
																		1 7							
								1																	

Additional Remarks: One inch of snow cover encountered on ground surface. Weathered rock encountered between 90° and 110°. Soil Profile Pit SPP-3 encountered refusal at approximately 9.2 feet below the ground surface on apparent rock.



SOIL PROFILE PIT LOG Soil Profile Pit: SPP-4

Page <u>1</u> of <u>1</u>

	Proposed Industrial		O	VI-								Project No.:	2803-99-012E	O -/- Tt D										
Location: Surface Elev		wn of Cornwall, 230.0	Orange County, New Date Started:	TOTE			3/2/22						Cornwall Logistics, L Depth	LC c/o Treetop Develop	ment, LLG	El.								
Termination		11.0	Date Started: Date Completed:				3/2/22		Groundwa	ater Data			Deptn (ft)			E1.					Groundwa	ter Comme	ents	
Proposed Lo		SWM	bate completed.	Logged by:			Gomez		Seepage				NE			- (8)								
Excavation				Contractor:		C	arroccia		Groundwater				4.0			226.0			Light Gray (10 YR	7/1) mottling 40°	- 60"			
/ Test Method:	Visual Observation					Deer	e Excavator		Mottling				3.3			226.7				,				
method:				Rig Type:				1	STRUCTURE				CONSISTENCY			NDARY				MOTTLING		_	SAMPLING	
DEPTH (IN)	COLOR	6011	TEXTURE		COARSE FRA	CMENTS (%)			STRUCTURE		WATER		CONSISTENCY		BOUL	NDARY	ROO	re		MOTILING		5.	SAMPLING	LAB RESULTS
DEPTH (IN)	COLOR	SUIL	TEXTURE		COARSE FRA	IGMENTS (%)		Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography	ROO		Quantity	Size	Contrast	Туре	Depth (in)	No.
				GRAVEL	COBBLES	STONES	BOULDERS									į				į	į			
0-8	TOPSOIL Dark Brown (7.5YR 3/3)		SILT LOAM	5	0	0	0	SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	CMN (20% MAX)	MEDIUM TO VERY COARSE	NONE					
				GRAVEL	COBBLES	STONES	BOULDERS																	
8-40	Yellowish Brown (10YR 5/4)		SILTY CLAY	10	10 5 0 0 S				MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC	CLEAR <2.5"	WAVY	MNY (>20% MAX)	FINE TO COARSE	NONE			BAG	24	S-1 PT-4 @ 36" = 0.5 IPH
				GRAVEL	COBBLES	STONES	BOULDERS																	
40-60	Yellowish Brown (10YR 5/4)	GRAVELLY & COBBLY	SILT LOAM	25	10	5	5	SUBANGULAR BLOCKY	MODERATE	MEDIUM	WET	FRIABLE	SLIGHTLY STICKY	SLIGHTLY PLASTIC	CLEAR <2.5"	WAVY	FEW (5% MAX)	FINE	FEW (5% MAX)	MEDIUM 5MM-15MM	DISTINCT	BAG	46	S-2
				GRAVEL	COBBLES	STONES	BOULDERS																	
60-98	Dark Yellowish Brown (10YR 4/4)	GRAVELLY & COBBLY	SILTY CLAY	20	15	10	5	SUBANGULAR BLOCKY	MODERATE	FINE	WET	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC	ABRUPT <1"	SMOOTH	NONE		NONE			BAG	72	S-3
				GRAVEL	COBBLES	STONES	BOULDERS																	
98-132	Olive Brown (2.5Y 4/4)		CLAY	10	5	5	0	SUBANGULAR BLOCKY	MODERATE	VERY FINE	WET	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC			NONE		NONE			BAG	110	S-4
A 1197			ver encountered or		0.75	FI. D. 055																		

Additional Remarks: One inch of snow cover encountered on ground surface. Soil Profile Pit SPP-4 was terminated at approximately 11 feet below the ground surface.



Soil Profile Pit: <u>SPP-5</u>
Page <u>1</u> of <u>1</u>

	Proposed Industrial												2803-99-012E							-				
			Orange County, New	York			0.00.000		1					LC c/o Treetop Develop	ment, LLC			-	ı					
Surface Ele		224.0	Date Started:				3/2/22		Groundw	ater Data			Depth (ft)		1	El.					Groundw	ater Comn	nents	
Terminatio Proposed L		12.3 SWM	Date Completed:	Logged by:			. Gomez		Seepage				(ft) NE		 	(ft)								
Excavation		· · · · · ·		Contractor:			arroccia		Groundwater				NE						Light Gray (10 YR	7/1) mottling 32"	- 148"			
/ Test Method:	Visual Observation			Rig Type:		Deer	e Excavator		Mottling				2.7			221.3			3 2.2, (. ,	-			
				mg .ype.					STRUCTURE		WATER		CONSISTENCY		BOU	NDARY				MOTTLING			SAMPLING	
DEPTH (IN	COLOR	SOIL	TEXTURE		COARSE FRA	GMENTS (%)		Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography	ROO	rs	Quantity	Size	Contrast	Туре	Depth (in)	No.
				GRAVEL	COBBLES	STONES	BOULDERS																	
0-9	TOPSOIL Dark Brown (7.5YR 3/3)		SILT LOAM	5	0	0	0	SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	CMN (20% MAX)	MEDIUM TO VERY COARSE	NONE					
				GRAVEL	COBBLES	STONES	BOULDERS																	
9-32	Yellowish Brown (10YR 5/6)		SILTY CLAY	15	10	5	0	SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC	CLEAR <2.5"	WAVY	FEW (5% MAX)	FINE TO COARSE	NONE			BAG	20	S-1 PT-5 @ 24" = 0.1 IPH
				GRAVEL	COBBLES	STONES	BOULDERS																	
32-84	Dark Yellowish Brown (10YR 4/4)	GRAVELLY & COBBLY	SILT LOAM	20	15	5	0	SUBANGULAR BLOCKY	MODERATE	FINE	MOIST	FRIABLE	SLIGHTLY STICKY	SLIGHTLY PLASTIC	CLEAR <2.5"	WAVY	NONE		FEW (5% MAX)	MEDIUM 5MM-15MM	FAINT	BAG	78	S-2
				GRAVEL	COBBLES	STONES	BOULDERS																	
84-116	Olive Brown (2.5Y 4/4)	GRAVELLY & COBBLY	SILTY CLAY LOAM	25	15	10	5	SUBANGULAR BLOCKY	MODERATE	FINE	MOIST	FRIABLE	SLIGHTLY STICKY	SLIGHTLY PLASTIC	CLEAR <2.5"	WAVY	NONE		CMN (20% MAX)	MEDIUM 5MM-15MM	FAINT	BAG	96	S-3
				GRAVEL	COBBLES	STONES	BOULDERS																	
116-148	Olive Brown (2.5Y 4/4)	GRAVELLY & COBBLY	SILTY CLAY	30	15	10	5	SUBANGULAR BLOCKY	WEAK	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC			NONE		CMN (20% MAX)	MEDIUM 5MM-15MM	FAINT	BAG	120	S-4

Additional Remarks: One inch of snow cover encountered on ground surface. Weathered rock encountered between 116' and 148'. Soil Profile Pit SPP-5 was terminated at approximately 12.3 feet below the ground surface.



SOIL PROFILE PIT LOG Soil Profile Pit: SPP-6

Page <u>1</u> of <u>1</u>

	Proposed Industrial												2803-99-012E												
			Orange County, New	York			3/2/22							LC c/o Treetop Develop	ment, LLC										
Surface Elev		229.0	Date Started:				3/2/22		Groundw	ater Data	l		Depth			El.			1		Groundw	ater Comn	ments		
Termination		11.5 SWM	Date Completed:	Laurandha			I. Gomez		e				(ft) NE			(ft)									
Proposed Lo Excavation		SVVIVI		Logged by Contractor:			Carroccia		Seepage Groundwater				4.3			224.7									
/ Test	Visual Observation						re Excavator						2.0			227.0			Light Gray (10 YR	7/1) motting 24	- 130				
Method:	1			Rig Type	:	Dee	ie Excavator		Mottling			1					1								
									STRUCTURE		WATER		CONSISTENCY		BOU	NDARY				MOTTLING			SAMPLIN		
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	AGMENTS (%)					CONTENT	Resistance to					ROO	TS				1	Depth		AB RESULTS
								Shape	Grade	Size		Rupture	Stickiness	Plasticity	Distinctness	Topography			Quantity	Size	Contrast	Type	(in)	No.	
				GRAVEL	COBBLES	STONES	BOULDERS																		
				GRAVEL	COBBLES	STUNES	BOULDERS									1		1		į	ļ				
	TOPSOIL				İ	ļ	i						SLIGHTLY				CMN (20%	MEDIUM		ļ	ļ				
0-9	Dark Brown (7.5YR 3/3)		SILT LOAM				1	SUBANGULAR	MODERATE	VEDV FINE	MOIST	FRIABLE	STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	MAX)	TO VERY COARSE	NONE	į	į				
	(7.51K 3/3)			5	0	0	0	BLOCKY	MODERATE	VERT FINE								COARSE							
					į.																				
				GRAVEL	COBBLES	STONES	BOULDERS																		
				GRAVEL	COBBLES	STONES	BOULDERS																		
	Dark Yellowish	GRAVELLY &			1	1	i						SLIGHTLY	MODERATELY			CMN (20%	VERY		ł	ł				
9-24	Brown (10YR 4/4)	COBBLY	SILTY CLAY					SUBANGULAR	MODERATE	VEDV FINE	MOIST	FRIABLE	STICKY	PLASTIC	CLEAR <2.5"	WAVY	MAX)	FINE TO MEDIUM	NONE	İ	ĺ	BAG	36	S-1 PT-6	@ 18" = 0.1 IPH
	(101K 4/4)			20	15	5	0	BLOCKY	MODERATE	VERY FINE								MEDIUM			1				
					1	ļ	1									1					1				
																		1							
				GRAVEL	COBBLES	STONES	BOULDERS																		
	Olive Brown	GRAVELLY &			İ		Ì						SLIGHTLY		CLEAR OF	WAND				COARSE			96		
24-98	(2.5Y 4/4)	COBBLY	CLAY			l		SUBANGULAR	WEAK	VERY FINE	WET	FRIABLE	STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	NONE	1	CMN (20% MAX)	>15MM	DISTINCT	BAG	96	S-2	
				30	20	10	5	BLOCKY	WEAK	VERY FINE						1		1		1	ł				
					1	ļ	1									1					1				
				GRAVEL	COBBLES	STONES	BOULDERS									į		İ		į	į				
	Olive Brown	GRAVELLY &			i	į	į						SLIGHTLY	MODERATELY		į		i		COARSE					
98-138	(2.5Y 4/4)	COBBLY	SILTY CLAY					SUBANGULAR	WEAK	VERY FINE	WET	FRIABLE	STICKY	PLASTIC			NONE		CMN (20% MAX)	>15MM	DISTINCT	BAG	110	S-3	
				40	25	15	10	BLOCKY	WEAK	VERT FINE						1		1		1	ł				
					İ											ļ				1					
					1		1																		
					į.	ļ										1		1		ļ	ļ				
					į																				
					İ																				
					İ	İ	İ									į		i		İ	İ				
					İ	į	1											i							
					1																				
				-	1		ļ	4				1													
					1		į					1													
				1	1	į	į				1	1				ĺ	1	1	1	İ	İ				
					1							1				İ				İ	İ				
					1	ļ	ļ					1					1	1				\sqcup			
				1	1	į	ļ				1	1					1	1	1	ļ	ļ				
					ļ	 	ļ —	-			1	1					1	1	1	ļ	ļ				
					i .		1					1						i			İ				
					1		l					1								ĺ	ĺ				
				1	1		1				1	1				1	1	1	1	1	1				
					1		1									1		1		!	!				
					1		į					1													
					 	 	ļ	-			1	1				ĺ	1	1	1	İ	İ				
					1	1	1					1					1	1		1	į				
				1	1		1				1	1				1	1	1	1	1	1				
					1		1					1				1		1		1	1				
				1	<u> </u>	1	1	1				1			1	1	1	1	l	1	1				
Additional	Remarks: Soil Pr	ofile Pit SPP-6	6 was terminated a	it approximat	ely 11.5 feet b	below the g	round surface																		



Page <u>1</u> of <u>1</u>

Soil Profile Pit: SPP-7

	Proposed Industrial												2803-99-012E												
	US Highway 9W, To	wn of Cornwall, 0 231.0	Drange County, New Date Started:	York			3/2/22	1		1				LC c/o Treetop Develop	ment, LLC				1						
Surface Eler Termination			Date Started: Date Completed:				3/3/22		Groundwa	ater Data			Depth (ft)			El.					Groundw	ater Comn	ments		
Proposed Le		SWM		Logged by:		J	. Gomez		Seepage				NE												
Excavation	Visual Observation			Contractor:		(Carroccia		Groundwater				11.6			219.4			Light Gray (10 YR	7/1) mottling 70"	- 130"				
/ Test Method:	visual Observation			Rig Type:		Deer	re Excavator		Mottling				5.8			225.2									
	COLOR								STRUCTURE		WATER		CONSISTENCY		BOUN	IDARY	ROO	70		MOTTLING			SAMPLIN	3	LAB RESULTS
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	IGMENTS (%)		Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography	ROO	15	Quantity	Size	Contrast	Туре	Depth (in)	No.	LAB RESULTS
				GRAVEL	COBBLES	STONES	BOULDERS																		
0-14	TOPSOIL Dark Brown (7.5YR 3/3)		SILT LOAM	5	0	0	0	SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	CMN (20% MAX)	MEDIUM TO VERY COARSE	NONE						
				GRAVEL	COBBLES	STONES	BOULDERS																		
14-70	Dark Yellowish Brown (10YR 4/4)	GRAVELLY, COBBLY & STONEY	SILTY CLAY	30	20	15	25	SUBANGULAR BLOCKY	WEAK	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC	CLEAR <2.5"	WAVY	MNY (>20% MAX)	FINE TO COARSE	NONE			BAG	36	S-1 P	T-7 @ 36" = 0.1 IPH
				GRAVEL	COBBLES	STONES	BOULDERS											1							
70-130	Olive Brown (2.5Y 4/3)	GRAVELLY & COBBLY	CLAY	25	25	20	15	SUBANGULAR BLOCKY	WEAK	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	NONE		CMN (20% MAX)	MEDIUM 5MM-15MM	FAINT	BAG	90	S-2	
				GRAVEL	COBBLES	STONES	BOULDERS																		
130-146	Olive Brown (2.5Y 4/3)	GRAVELLY & COBBLY	SILT	20	15	10	10	SUBANGULAR BLOCKY	WEAK	FINE	WET	FRIABLE	SLIGHTLY STICKY	SLIGHTLY PLASTIC			NONE		NONE			BAG	136	S-3	
																				_		1 7			
																		ļ							

Additional Remarks: One inch of snow cover encountered on surface. Soil Profile Pit SPP-7 was terminated at approximately 12.2 feet below the ground surface.



SOIL PROFILE PIT LOG Soil Profile Pit: SPP-8

Page <u>1</u> of <u>1</u>

State Stat																												
March Marc																												
Martin M		ufface Elevation (ft): 21:0 Date Starte: 37/222 Groundwater Data Depth EL Groundwater Comments miniation Depth (ft: 7:5 Date Completed: 37/222 Groundwater Data (ft) (ft)																										
Second Parison Seco																				Groundwater Comments								
Market M				Date Completed:						_		NE					(11)			+								
The column Th	Excavation	Excavation															200.0											
Market M	/ Test	Visual Observation														Light Gray (10 1x 7/1) flotting 30 - 90												
Probability Probability	Method:			1	Rig Type:	:	Dee	ie Excavator	1				1			+												
Signature Sign										STRUCTURE		WATER		CONSISTENCY		BOUNDARY				MOTTLING			SAMPLING					
March Marc	DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	AGMENTS (%)					CONTENT	Pasistance to					ROC	TS					Denth		LAB RESULTS		
Part Part									Snape	Grade	Size			Stickiness	Plasticity	Distinctness	lopograpny			Quantity	Size	Contrast	Type	(in)	No.			
Part Part					CRAVEL	CORRIEC	CTONEC	POLII DEDO									İ		i		l	i .						
9-14 O/A-9 Park Brown					GRAVEL	COBBLES	STORES	BOOLDERS											İ			į						
1	0.44			CUTION		į	0					MOICT	FOLADI F	SLIGHTLY	VERY DI ACTIC	CLEAR -2 E"	WAVV	CMN (20%		NONE		į						
14-56 15-5	0-14			SILI LOAM	-	0			SUBANGULAR	MODERATE	VERY FINE	MOIST	FRIADLE	STICKY	VERT PLASTIC	CLEAR CZ.5	WAV	MAX)	COARSE	NONE		į.						
14-0		(,			3	ľ	Ů	Ů	BLOCKY	MODERATE	VEICE FINE											1						
14-0						1		į									į		į.		į	i						
14-0					GRAVEI	CORRIES	STONES	BOLIL DERS											İ			į						
Secondary Seco					OIOTTEE	OODDLLO	OTOTALO	DOOLDENO											İ			İ						
10 10 10 10 10 10 10 10	14.26		STONEY	CLAV								MOIST	EDIADI E		VEDV DI ACTIC	CLEAR -2.5"	WAVY		FINE TO	NONE		İ	PAG	20	l e 1 pr	. 0 @ 24" _ 0 2 IDU		
Second Company Compa	14-30	(10YR 4/3)	STORET	CLAI	10	15	20	10		MODERATE	VERY FINE	mois:	FRIADLE	STICKY	VERTIFEASTIC	OLLAN ALIO		MAX)	COARSE	NONE		1	BAG		3-1 -1	0 @ 24 = 0.2 IFH		
Section Sect						1		1	BLOCKY								1		1		1	1						
Section Sect						i .		i .									İ		1		i	i .						
STOCK PLASTIC PLASTI					GRAVEL	COBBLES	STONES	BOULDERS											1									
STOCK PLASTIC PLASTI																			İ			1						
95-90 ORAVELLY CLAY STATE STOKE	36-55		GRAVELLY &	SILTY CLAY		-	1	1				MOIST	FRIABLE			CLEAR <2.5"	WAVY	NONE	1	CMN (20% MAX)	COARSE	PROMINENT	BAG	36	S-2			
State Stat		(2.51 4/4)	COBBLI		20	15	20	10		MODERATE	FINE			STICKT	PERSTIC		İ		İ		>15mm	İ						
5-90 ORIVE DOWN (287-444) ORAVELLY CLAY 15 10 10 5 SUBMOULAR WEAK FINE WET FRIABLE SLIGHTLY PLASTIC NONE MOCERATELY PLASTIC NONE MMY (2-29) MAKA) FROMINENT BAO 66 5-3 FROMINENT BAO 67 5-3 F									BECOIL										1			ļ						
5-90 ORIVE DOWN (287-444) ORAVELLY CLAY 15 10 10 5 SUBMOULAR WEAK FINE WET FRIABLE SLIGHTLY PLASTIC NONE MOCERATELY PLASTIC NONE MMY (2-29) MAKA) FROMINENT BAO 66 5-3 FROMINENT BAO 67 5-3 F								-											 		ļ	i —	-		-			
Solid Cast 449 C					GRAVEL	COBBLES	STONES	BOULDERS									1		1		1	l						
Solid Cast 449 C		Olive Brown												SI IGHTI Y	MODERATELY					MNY (>20%	COAPSE	į.						
	55-90		GRAVELLY	CLAY					SUBANGULAR			WET	FRIABLE					NONE	1			PROMINENT	BAG	66	S-3			
ddional Remarks: Sol Profile Pt SPP-8 encountered refusal at approximately 7.5 feet below the ground surface due to apparent rock.					15	10	10	5	BLOCKY	WEAK	FINE								1			1						
4ditional Remarks: Soll Profile Pit SPP-8 encountered refusal at approximately 7.5 feet below the ground surface due to apparent rock.																	ļ		1		1	ļ						
ddiloral Remarks: Soil Profile Pt SPP-8 encountered refusal at approximately 7.5 feet below the ground surface due to apparent rock.																			ļ.									
dditional Remarks: Soil Profile Pit SPP-8 encountered refusal at approximately 7.5 feet below the ground surface due to apparent rock.						ļ		ļ	4										1									
dditional Remarks: Soil Profile Pit SPP-8 encountered refusal at approximately 7.5 feet below the ground surface due to apparent rock.						İ	İ												İ			l						
ddiloral Remarks: Soil Profile Pit SPP-8 encountered refusal at approximately 7.5 feet below the ground surface due to apparent rock.						İ		j									İ		İ		ĺ	İ						
dditional Remarks: Soil Profile Pit SPP-8 encountered refusal at approximately 7.5 feet below the ground surface due to apparent rock.																			1			ļ						
ddiional Remarks: Soil Profile Pit SPP-8 encountered refusal at approximately 7.5 feet below the ground surface due to apparent rock.	\vdash					i .	į .	į								1	1		 		į .	 						
dditional Remarks: Soil Profile Pit SPP-8 encountered refusal at approximately 7.5 feet below the ground surface due to apparent rock.						1		İ																				
dditional Remarks: Soil Profile Pit SPP-8 encountered refusal at approximately 7.5 feet below the ground surface due to apparent rock.						!	!	!	1										1			1						
dditional Remarks: Soil Profile Pit SPP-8 encountered refusal at approximately 7.5 feet below the ground surface due to apparent rock.					1	1		1									1		1		1	1	1					
ddilional Remarks: Soil Profile Pit SPP-8 encountered refusal at approximately 7.5 feet below the ground surface due to apparent rock.					l	1	}	1									1		1		1	1	1					
dditional Remarks: Soil Profile Pit SPP-8 encountered refusal at approximately 7.5 feet below the ground surface due to apparent rock.							į	İ											1		İ							
dditional Remarks: Soil Profile Pit SPP-8 encountered refusal at approximately 7.5 feet below the ground surface due to apparent rock.						1	İ	i e											†		İ	 			-	-		
dditional Remarks: Soil Profile Pit SPP-8 encountered refusal at approximately 7.5 feet below the ground surface due to apparent rock.						1		i .	1								1											
dditional Remarks: Soil Profile Pit SPP-8 encountered refusal at approximately 7.5 feet below the ground surface due to apparent rock.							i –	1											1		į							
dditional Remarks: Soil Profile Pit SPP-8 encountered refusal at approximately 7.5 feet below the ground surface due to apparent rock.						1	İ	1											1		İ							
dditional Remarks: Soil Profile Pit SPP-8 encountered refusal at approximately 7.5 feet below the ground surface due to apparent rock.						1	1										1		1		1							
dditional Remarks: Soil Profile Pit SPP-8 encountered refusal at approximately 7.5 feet below the ground surface due to apparent rock.						<u> </u>	<u> </u>	<u> </u>								<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>						
dditional Remarks: Soil Profile Pit SPP-8 encountered refusal at approximately 7.5 feet below the ground surface due to apparent rock.				-		1	1	1			-						1		1		!				. 🗆			
dditional Remarks: Soil Profile Pit SPP-8 encountered refusal at approximately 7.5 feet below the ground surface due to apparent rock.						-	ļ	-	4																			
dditional Remarks: Soil Profile Pit SPP-8 encountered refusal at approximately 7.5 feet below the ground surface due to apparent rock.						1	į	1											1		į	1						
dditional Remarks: Soil Profile Pit SPP-8 encountered refusal at approximately 7.5 feet below the ground surface due to apparent rock.						1	1	1									1		1		1							
						1	1	1													1							
dditional Remarks: Soil Prohile Pit SPP-8 encountered refusal at approximately 7.5 teet below the ground surface due to apparent rock.			e. n. ac -		L	1	<u> </u>	1				l	1	l	1	1	í	1	<u> </u>	1	į	<u> </u>						
	Additional F	kemarks: Soil Pr	OTIIE PIT SPP-	s encountered refu	isai at approx	ximately 7.5 fe	eet below th	ie ground surf	race due to appa	rent rock.																		



SOIL PROFILE PIT LOG Soil Profile Pit: SPP-9

Page <u>1</u> of <u>1</u>

	Proposed Industrial												2803-99-012E													
	Description Description																									
									Groundw	ater Data									Groundwater Comments							
Proposed Loc		SWM	Date Completed.	Logged by:					Seepage				NE NE			(11)										
Excavation				Contractor:			arroccia		Groundwater				4.0			207.0		Light Gray (10 VP	7/1) mottling 28*	- 70"						
	Visual Observation						e Excavator							208.7		Light Gray (10 YR 7/1) mottling 28" - 70"										
Method:				Rig Type:	:			1	Mottling		2.3						1									
DEPTH (IN)	COLOR								STRUCTURE		WATER	CONSISTENCY			BOUNDARY		ROOTS		MOTTLING				SAMPLING	LAB RESULTS		
DEPTH (IN)	COLOR	SOIL TEXTURE			COARSE FRA	IGMENIS (%)		Shape	Grade Size	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography	ROO	15	Quantity	Size	Contrast	Туре	Depth (in)	No.		
				GRAVEL	COBBLES	STONES	BOULDERS																			
0-11	TOPSOIL Dark Brown (7.5YR 3/3)		SILT LOAM	5	0	0	0	SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	CMN (20% MAX)	MEDIUM TO VERY COARSE	NONE							
				GRAVEL	COBBLES	STONES	BOULDERS																			
11-28	Brown (10YR 5/3)		SILTY CLAY	10	5	0	0	SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC	CLEAR <2.5"	WAVY	MNY (>20% MAX)	FINE TO COARSE	NONE			BAG	20	S-1		
				GRAVEL	COBBLES	STONES	BOULDERS																			
28-36	Dark Yellowish Brown (10YR 3/4)	GRAVELLY	SILT LOAM	15	15	10	15	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	SLIGHTLY STICKY	NONPLASTIC	CLEAR <2.5"	WAVY	FEW (5% MAX) MEDIUM	MNY (>20% MAX)	COARSE >15MM	PROMINENT	BAG	30	S-2 PT-9 @ 30" = 0.1 IPH		
				GRAVEL	COBBLES	STONES	BOULDERS											1								
36-70	Dark Yellowish Brown (10YR 4/4)	COBBLY	SILTY CLAY LOAM	10	25	10	5	SUBANGULAR BLOCKY	WEAK	FINE	WET	FRIABLE	SLIGHTLY STICKY	SLIGHTLY PLASTIC	CLEAR <2.5"	WAVY	NONE		MNY (>20% MAX)	COARSE >15MM	PROMINENT	BAG	48	S-3		
				GRAVEL	COBBLES	STONES	BOULDERS																			
70-105	Olive Brown (2.5Y 4/4)	GRAVELLY & COBBLY	CLAY	10	30	15	10	SUBANGULAR BLOCKY	WEAK	VERY FINE	WET	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	NONE		NONE			BAG	80	S-4		
				GRAVEL	COBBLES	STONES	BOULDERS																			
105-140	Dark Yellowish Brown (10YR 4/4)	GRAVELLY & COBBLY	SILT	35	35	20	10	SUBANGULAR BLOCKY	WEAK	VERY COARSE	WET	FRIABLE	MODERATELY STICKY	NONPLASTIC			NONE		NONE			BAG	112	S-5		
) was terminated a																							

Additional Remarks: Soil Profile Pit SPP-9 was terminated at approximately 11.7 feet below the ground surface due to apparent rock. Weathered rock encountered between 105° and 140°



Page <u>1</u> of <u>1</u>

Soil Profile Pit: SPP-10

	Project Proposed Industrial Warehouse Project No.: 280-99-912E																								
		wn of Cornwall, 0	Orange County, New	York			VE IOO			1				LC c/o Treetop Develop	ment, LLC										
Surface Elev Termination			Date Started: Date Completed:				3/5/22		Groundwa	ater Data			Depth (ft)			El.			Groundwater Comments						
Proposed Lo Excavation		SWM	Date Completed.	Logged by:		J.	Gomez		Seepage				NE			-									
	/ Test Visual Observation			Contractor:		C	arroccia		Groundwater				NE			-	Light Gray (10 YR								
Method:	visual Observation	Rig Type: Deere Excav				Excavator		Mottling		5.5					210.5										
DEPTH (IN)	COLOR	SOII :	TEXTURE		COARSE FRA	CMENTS (V)			STRUCTURE		WATER		CONSISTENCY		BOU	NDARY	ROO	2		MOTTLING			SAMPLING	LAB RESULTS	
DEFTH (IN)	GOLON				COARSETRA	OMERIS (%)		Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography			Quantity	Size	Contrast	Туре	Depth (in)	No.	
				GRAVEL	COBBLES	STONES	BOULDERS																		
0-9	TOPSOIL Dark Brown (7.5YR 3/3)	SILT LOAM		5	0	0	0	SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	SLIGHTLY STICKY VERY PLASTIC		CLEAR <2.5" WAVY		CMN (20% MAX) MEDIUM TO VERY COARSE							
				GRAVEL	COBBLES	STONES	BOULDERS																		
9-66	Yellowish Brown (10YR 5/4)	GRAVELLY & COBBLY	CLAY	15	20	10	5	SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	MNY (>20% MAX)	VERY FINE TO COARSE	NONE			BAG	36	S-1 PT-10 @ 48" = 0.1 IPH	
				GRAVEL	COBBLES	STONES	BOULDERS																		
66-129	Olive Brown (2.5Y 4/4)	GRAVELLY & COBBLY	CLAY	35	25	15	5	SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC			NONE		CMN (20% MAX)	COARSE >15MM	PROMINENT	BAG	42	S-2	
															<u> </u>										

Additional Remarks: Soil Profile Pit SPP-10 encountered refusal at approximately 10.8 feet below the ground surface due to apparent boulders.



Soil Profile Pit: <u>SPP-11</u>
Page <u>1</u> of <u>1</u>

Project: Proposed Industrial Warehouse Project No.: 2803-99-012E Location: US Highway 9W, Town of Cornwall, Orange County, New York
Surface Elevation (ft): 200.0 Date Started: Cornwall Logistics, LLC c/o Treetop Development, LLC Client: 200.0 8.8 SWM Date Started: Date Completed: 3/3/22 Groundwater Data Groundwater Comments Termination Depth (ft): (ft) (ft) Proposed Location: Excavation / Test Visual Observation Method: Logged by: Contractor: Carroccia Groundwater 194.0 Light Gray (10 YR 7/1) mottling 36" - 106" Deere Excavator 3.0 197.0 Rig Type: Mottling STRUCTURE CONSISTENCY WATER CONTENT COLOR ROOTS LAB RESULTS DEPTH (IN) SOIL TEXTURE COARSE FRAGMENTS (%) Type Depth Resistance to Rupture Grade Size Stickiness Plasticity Distinctness Topography Quantity Size GRAVEL COBBLES STONES BOULDERS MEDIUM TO VERY COARSE CMN (20% MAX) 0-12 SILT LOAM MOIST FRIABLE VERY PLASTIC NONE Dark Brown (7.5YR 3/3) SUBANGULAR MODERATE VERY FINE BLOCKY GRAVEL COBBLES STONES BOULDERS GRAVELLY & COBBLY MODERATELY PLASTIC S-1 PT-11 @ 24" = 0.3 IPH Olive Brown (2.5Y 4/4) 12-36 SILTY CLAY MOIST FRIABLE CLEAR <2.5" WAVY MEDIUM NONE BAG 36 SUBANGULAR MODERATE BLOCKY FINE 20 COBBLES STONES GRAVEL BOULDERS SLIGHTLY STICKY S-2 82 36-60 SILTY CLAY MOIST FRIABLE CLEAR <2.5" WAVY NONE PROMINENT BAG SUBANGULAR BLOCKY VERY FINE WEAK 30 20 15 15 GRAVEL COBBLES STONES BOULDERS Light Olive Brown (2.5Y 5/3) GRAVELLY & COBBLY SLIGHTLY PLASTIC MNY (>20% MAX) COARSE >15MM SLIGHTLY S-2 SILTY CLAY WET FRIABLE NONE PROMINENT BAG 82 SUBANGULAR BLOCKY 30 20 VERY FINE 15 15

Additional Remarks: Soil Profile Pit SPP-11 encountered refusal at approximately 8.8 feet below the ground surface due to large boulders.



Page <u>1</u> of <u>1</u>

Soil Profile Pit: SPP-12

	Project: Proposed Industrial Wardenouse Location: US Project May 991, Town Commail, Opinion																								
		own of Cornwall, 189.0	Orange County, New Date Started:	York			0.00.000		1					C c/o Treetop Develop	ment, LLC			-							
Surface Ele					3/3/22		Groundw	ater Data			Depth			El.			Groundwater Comments								
	Proposed Location: SWM Excavation		Date Completed:	Logged by:			3/3/22 . Gomez		Seepage				(ft) NE		1	(ft)			+						
Excavation			1	Contractor:		Carroccia			Groundwater		5.3					183.7	Light Gray (10 YR 7/1) mottling 15" - 129"								
/ Test Method:	Visual Observation	on		Rig Type:				Mottling				1.3			187.7										
				mg Type.					STRUCTURE		WATER	CONSISTENCY			BOUNDARY		ROOTS				:	SAMPLING			
DEPTH (IN)	COLOR	SOIL TEXTURE		COARSE FRAGMENTS (%)			(%) Shape		Grade Size		CONTENT	Resistance to Rupture	Stickiness Plasticity		Distinctness	Topography	ROOTS		Quantity	Size	Contrast	Туре	Depth (in)	No.	
				GRAVEL	COBBLES	STONES	BOULDERS																		
0-11	TOPSOIL Dark Brown (7.5YR 3/3)	SILT LOAM		5	0	0	0	SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	CMN (20% MAX)	MEDIUM TO VERY COARSE	NONE						
		CLAY		GRAVEL	COBBLES	STONES	BOULDERS						-												
11-15	Dark Yellowish Brown (10YR 3/6)			10	5	5	0	SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	MNY (>20% MAX)	VERY FINETO COARSE	NONE			BAG	14	S-1	
				GRAVEL	COBBLES	STONES	BOULDERS																		
15-64	Dark Yellowish Brown (10YR 3/4)	GRAVELLY & LOA	LOAMY SAND	35	20	10	15	SUBANGULAR BLOCKY	WEAK	MEDIUM	MOIST	FRIABLE	SLIGHTLY STICKY	NONPLASTIC	CLEAR <2.5"	WAVY	CMN (20% MAX)	VERY FINE TO FINE	MNY (>20% MAX)	COARSE >15MM	PROMINENT	BAG	30	S-2 PT-12 @ 36" = 5.0 IPH	
				GRAVEL	COBBLES	STONES	BOULDERS																		
64-100	Brown (10YR 4/3)	GRAVELLY & COBBLY	CLAY LOAM	30	20	15	5	SUBANGULAR BLOCKY	WEAK	MEDIUM	WET	FRIABLE	SLIGHTLY STICKY	SLIGHTLY PLASTIC	CLEAR <2.5"	WAVY	NONE		MNY (>20% MAX)	COARSE >15MM	PROMINENT	BAG	70	S-3	
				GRAVEL	COBBLES	STONES	BOULDERS																		
100-129	Light Olive Brown (2.5Y 5/4)	GRAVELLY & COBBLY	CLAY LOAM	40	25	15	10	SUBANGULAR BLOCKY	WEAK	MEDIUM	WET	FRIABLE	SLIGHTLY STICKY	SLIGHTLY PLASTIC			NONE		MNY (>20% MAX)	COARSE >15MM	PROMINENT	BAG	112	S-4	
																				ļ					

Additional Remarks: Soil Profile Pit SPP-12 was terminated at approximately 10.8 feet below the ground surface. Weathered rock encountered between 100° and 129°



Soil Profile Pit: SPP-13

Page 1 of 1

Project: Proposed Industrial Warehouse Project No.: 2803-99-012E Location: US Highway 9W, Town of Cornwall, Orange County, New York
Surface Elevation (ft): 210.0 Date Started: Cornwall Logistics, LLC c/o Treetop Development, LLC Client: 210.0 8.2 SWM Date Started: Date Completed: 3/3/22 Groundwater Data Groundwater Comments Termination Depth (ft): (ft) (ft) Proposed Location: Excavation / Test Visual Observation Method: Logged by: Contractor: 207.2 Carroccia Groundwater Light Gray (10 YR 7/1) mottling 16" - 70" 208.7 Deere Excavator Rig Type: Mottling STRUCTURE WATER CONTENT COLOR ROOTS LAB RESULTS DEPTH (IN) SOIL TEXTURE COARSE FRAGMENTS (%) Type Depth Resistance to Rupture Grade Size Stickiness Plasticity Distinctness Topography Quantity Size GRAVEL COBBLES STONES BOULDERS MEDIUM TO VERY COARSE CMN (20% MAX) 0-16 SILT LOAM MOIST FRIABLE VERY PLASTIC NONE Dark Brown (7.5YR 3/3) SUBANGULAR MODERATE VERY FINE BLOCKY GRAVEL COBBLES STONES BOULDERS GRAVELLY & COBBLY FINE TO COARSE 16-20 SILTY CLAY MOIST FRIABLE VERY PLASTIC CLEAR <2.5" WAVY PROMINENT BAG 14 S-1 PT-13 @ 18" = 0.1 IPH SUBANGULAR MODERATE VERY FINE BLOCKY 25 COBBLES STONES GRAVEL BOULDERS SLIGHTLY STICKY S-2 40 20-70 LOAMY SAND WET FRIABLE NONPLASTIC CLEAR <2.5" WAVY NONE PROMINENT BAG SUBANGULAR BLOCKY WEAK COARSE 30 20 10 10 GRAVEL COBBLES STONES BOULDERS Olive Brown (2.5Y 4/4) GRAVELLY & COBBLY MODERATELY PLASTIC S-3 SLIGHTLY 70-98 SILTY CLAY WET FRIABLE NONE NONE BAG 80 SUBANGULAR BLOCKY VERY FINE 30 15

Additional Remarks: Soil Profile Pit SPP-13 encountered refusal at approximately 8.2 feet below the ground surface due to test pit cave-in.



Page <u>1</u> of <u>1</u>

Soil Profile Pit: SPP-14

	Proposed Industrial												2803-99-012E												
		own of Cornwall,	Orange County, New	YORK			3/4/22							LC c/o Treetop Develop	ment, LLC	El.			1						
Surface Elev Termination		193.0 11.3	Date Started:				3/4/22		Groundw	ater Data			Depth (ft)			EL (ft)					Groundwa	ter Comm	ients		
Proposed Lo		SWM	Date Completed:	Logged by:			I. Gomez		C				NE NE			(11)									
Excavation		011111		Contractor:			Carroccia		Seepage Groundwater				10.0			183.0			Light Gray (10 YR	7/1) mottling 2/1"	126"				
/ Test	Visual Observation						re Excavator						2.0			191.0			Light Gray (10 1K	7/1) motting 24	- 130				
Method:			1	Rig Type:	:	500	ic Excurator	1	Mottling			1					1							$\overline{}$	
									STRUCTURE		WATER		CONSISTENCY		BOUN	IDARY				MOTTLING		S	SAMPLING		
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	GMENTS (%)		Shape	Grade	Size	CONTENT	Resistance to	e-1 11		Distinctness	T	ROO	18	Quantity	Size	Contrast	Toma	Depth	No.	AB RESULTS
								Snape	Grade	Size		Rupture	Stickiness	Plasticity	Distinctness	Topography			Quantity	Size	Contrast	Туре	(in)	NO.	
				GRAVEL	COBBLES	STONES	BOULDERS													1	į				
				OIOTTEE	CODDLLO	OTOTALO	DOOLDENO														1				
0-13	TOPSOIL Dark Brown		SILT LOAM		1	1	1				MOIST	FRIABLE	SLIGHTLY	VERY PLASTIC	CLEAR <2.5"	WAVY	CMN (20%	MEDIUM TO VERY	NONE	İ	1				
0.10	(7.5YR 3/3)		OILT LOAM	5	0	0	0	SUBANGULAR	MODERATE	VERY FINE		TRIADEL	STICKY	VERTICATIO			MAX)	COARSE	HOILE	1	1				
				_	1	-	1	BLOCKY										1		į.	i I				
				GRAVEL	COBBLES	STONES	BOULDERS														1				
																				į.	i l				
13-24	Yellowish Brown	GRAVELLY &	SILTY CLAY		İ	ĺ	İ				MOIST	FRIABLE	SLIGHTLY	VERY PLASTIC	CLEAR <2.5"	WAVY	MNY (>20%	VERY FINE TO	NONE	ĺ	i I	BAG	36	S-1	
1024	(10YR 5/4)	COBBLY	OILTT OLAT	15	20	15	10	SUBANGULAR	MODERATE	VERY FINE		TRIADEL	STICKY	VEITT EACHO			MAX)	COARSE	HOILE	1		DA.O		.	
								BLOCKY																.	
					i .		i .											1		İ	î				
				GRAVEL	COBBLES	STONES	BOULDERS											1		1				.	
					<u> </u>		 	1												į	į				
24-120	Olive Brown	GRAVELLY & COBBLY	CLAY								MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	NONE		MNY (>20% MAX)	MEDIUM 5MM-15MM	PROMINENT	BAG	86	S-2 PT-14	4 @ 48" = 0.0 IPH
	(2.5Y 4/4)	COBBLI		30	25	15	15	SUBANGULAR BLOCKY	WEAK	FINE			SHICKT						MAX)	SMIM-ISMIM	i l				
								BLUCKT												1				.	
						-												-		ļ				-+-	
				GRAVEL	COBBLES	STONES	BOULDERS													į	i l			.	
	Olive Brown	GRAVELLY &											SLIGHTLY	MODERATELY					MNY (>20%	MEDIUM				.	
120-136	(2.5Y 4/4)	COBBLY	SILTY CLAY		ļ	İ	į	SUBANGULAR			WET	FRIABLE	STICKY	PLASTIC			NONE	1	MAX)	5MM-15MM	PROMINENT	BAG	130	S-3	
	(=====,			40	20	10	5	BLOCKY	WEAK	FINE									,					.	
					İ	ĺ	İ													ĺ	i I			.	
																				ļ —					
						į														1				.	
					1	1												1		1	1				
					1	į	1											1		į.	i I			.	
					1	1	1													į	į			.	
																				ļ					
						ļ	1													į				.	
				-	 	1	1	4									1	İ		1	į l			.	
					1		1										1	1						.	
				l	1	İ	1			J										1				.	
							1										1	1			!			.	
					1	i	1	ļ							-			1		i	i -				
					1	1	1										1	1		1				.	
								1									1	1			!			.	
				1	1	1	1										1	1		1				.	
				1	1	1	1										1	1		1	1			.	
					1		1										1	1		1				.	
\vdash					†	İ	†	†				<u> </u>		 	 	İ	 	i -		 					
					1		1										1	1						.	
						1	1	1									1	1		1				.	
						İ	İ										1			1	į l			.	
					1	l	1										1	1		1				.	
				l	1	İ	1			J						l		1		į.	1			.	
Additional	Remarks: Soil Pr	ofile Pit SPP-1	4 was terminated	at approxima	ately 11.3 feet	below the	around surfac	e.		•						•	•		•	•					
				, ,	,		,																		



Soil Profile Pit: <u>SPP-15</u>
Page <u>1</u> of <u>1</u>

Project:	Proposed Industrial	Warehouse										Project No.:	2803-99-012E											
			Orange County, New Y	York										LC c/o Treetop Develop	ment. LLC									
Surface Elev		203.0	Date Started:				3/5/22		Groundw				Depth .		T	El.					e :			
Termination	Denth (ft):	11.2	Date Completed:				3/5/22		Groundw	ater Data			(ft)			(ft)					Groundwa	iter Comm	nents	
Proposed Lo		SWM		Logged by:		J	. Gomez		Seepage				NE											
Excavation				Contractor:		0	Carroccia		Groundwater				7.6			195.4			Light Gray (10 YR	7/1) mottling 18"	- 134"			
	Visual Observation			Rig Type:		Deer	re Excavator		Mottling				1.5			201.5				. ,				
Method:				Kig Type.									CONSISTENCY			IDARY				MOTTLING		г .	SAMPLING	
DEPTH (IN)	COLOR		TEXTURE		COARSE FRA				STRUCTURE		WATER		CONSISTENCY		BOUL	IDARY	ROO	TC		MOTILING			SAMPLING	LAB RESULTS
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	GMENIS (%)		Shape	Grade	Size	CONTENT	Resistance to	Stickiness	Plasticity	Distinctness	Topography	ROU	15	Quantity	Size	Contrast	Туре	Depth	No.
								Snape	Grade	3126		Rupture	Stickiness	Plasticity	Districtiess	Topography			quantity	Size	Contrast	Type	(in)	140.
				GRAVEL	COBBLES	STONES	BOULDERS													l	l			
0-7	TOPSOIL Dark Brown (7.5YR 3/3)		SILT LOAM	5	0	0	0	SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	CMN (20% MAX)	MEDIUM TO VERY COARSE	NONE					
				GRAVEL	COBBLES	STONES	BOULDERS																	
																				l	İ			
7-18	Yellowish Brown (10YR 5/4)		SILTY CLAY LOAM	10	5	0	0	SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	MNY (>20% MAX)	VERY FINE TO MEDIUM	NONE			BAG	20	S-1
				GRAVEL	COBBLES	STONES	BOULDERS																	
					1		1											1						
18-91	Olive Brown (2.5Y 4/3)	GRAVELLY & COBBLY	SILTY CLAY LOAM	20	15	10	5	SUBANGULAR BLOCKY	WEAK	FINE	MOIST	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC	CLEAR <2.5"	SMOOTH	NONE		CMN (20% MAX)	MEDIUM 5MM-15MM	DISTINCT	BAG	40	S-2 PT-15 @ 24" = 0.5 IPH
				GRAVEL	COBBLES	STONES	BOULDERS																	
91-134	Light Olive Brown (2.5Y 5/4)	GRAVELLY & COBBLY	SILTY CLAY	30	25	20	15	SUBANGULAR BLOCKY	WEAK	VERY FINE	WET	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC			NONE		MNY (>20% MAX)	COARSE >15MM	PROMINENT	BAG	115	S-3
					1		1											1		į	ļ			
							1											İ						
							1											1						
					ļ		1	4		J														
							1																	
					İ		1			J														
	1				1		1			J								İ	1	ĺ	ĺ			
-					ļ		ļ											<u> </u>						
								-																
1	1				1		1	1					1		1			1	1	1	1			
	D	(1. D) ODD 4	5 was terminated				1	l				1		ļ	1		1	!	l	!	!	-		

Additional Remarks: Soil Profile Pit SPP-15 was terminated at approximately 11.2 feet below the ground surface.



Soil Profile Pit: <u>SPP-16</u>
Page <u>1</u> of <u>1</u>

	Proposed Industrial		Ct N	VI-									2803-99-012E Cornwall Logistics, LL	C -/- Tt D											
Surface Elev	US Highway 9W, To vation (ft):	207.0	Date Started:	TOTK			3/7/22		Groundw	ater Data			Depth	LC C/O Treetop Develop	ment, LLC	El.					Groundw	ater Comr	nents		
Termination		8.0 I	Date Completed:				3/7/22 . Gomez			anti Data			(ft) NE			(ft)					Ground	anti Conn			
Proposed Lo Excavation		SWM		Logged by: Contractor:			Carroccia		Seepage Groundwater				NE						Light Gray (10 YR	7/1) mottling 17"	- 96"				
/ Test Method:	Visual Observation			Rig Type:		Deer	re Excavator		Mottling				1.4			205.6				,					
									STRUCTURE		WATER		CONSISTENCY		BOUN	DARY				MOTTLING			SAMPLING		
DEPTH (IN)	COLOR	SOIL TE	EXTURE		COARSE FRA	AGMENTS (%)		Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography	ROO	τs	Quantity	Size	Contrast	Туре	Depth (in)	No.	LAB RESULTS
				GRAVEL	COBBLES	STONES	BOULDERS																		
0-17	TOPSOIL Dark Brown (7.5YR 3/3)		SILT LOAM	5	0	0	0	SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	CMN (20% MAX)	MEDIUM TO VERY COARSE	NONE						
				GRAVEL	COBBLES	STONES	BOULDERS																		
17-60	Yellowish Brown (10YR 5/4)		CLAY	10	0	0	0	SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	MNY (>20% MAX)	VERY FINE TO COARSE	MNY (>20% MAX)	COARSE >15MM	PROMINENT	BAG	18	S-1 PT-	Γ-16 @ 36" = 0.1 IPH
				GRAVEL	COBBLES	STONES	BOULDERS																		
60-96	Light Olive Brown (2.5Y 5/4)	GRAVELLY & COBBLY	SILTY CLAY	25	20	20	15	SUBANGULAR BLOCKY	MODERATE	FINE	MOIST	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC			NONE		MNY (>20% MAX)	COARSE >15MM	DISTINCT	BAG	40	S-2	

Additional Remarks: Soil Profile Pit SPP-16 encountered refusal at approximately eight feet below the ground surface due to apparent rock.



Soil Profile Pit: SPP-17

Page <u>1</u> of <u>1</u>

Project:	Proposed Industrial	Warehouse										Project No.:	2803-99-012E											
	US Highway 9W, To		Orange County, New '	York										LC c/o Treetop Develop	ment LLC									
Surface Ele		197.0	Date Started:				3/7/22		Groundw				Depth .		T	El.					Groundwa		4 .	
Termination	n Depth (ft):	11.5	Date Completed:				3/7/22		Groundw	ater Data			(ft)			(ft)					Groundwa	iter Comm	ients	
Proposed L	ocation:	SWM	•	Logged by:		J	I. Gomez		Seepage				NE											-
Excavation				Contractor:		(Carroccia		Groundwater				NE			-			Light Gray (10 YR	7/1) mottling 24"	- 138"			
/ Test Method:	Visual Observation			Rig Type:		Deer	re Excavator		Mottling				2.0			195.0								
metriou.			1	g .ypc.					STRUCTURE				CONSISTENCY		ROU	NDARY				MOTTLING			SAMPLING	
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	GMENTS (%)			OTHOOTORE		WATER		OONOIO I ENOT		500.	IDPACT	ROO	TS				`	Ozami Ente	LAB RESULTS
DE: 111 (114)		COIL	TEXTORE		OUTAINE I INT	O.II. E. 141 O (70)		Shape	Grade	Size	CONTENT	Resistance to	Stickiness	Plasticity	Distinctness	Topography			Quantity	Size	Contrast	Туре	Depth	No.
							,	-				Rupture							-				(in)	
				GRAVEL	COBBLES	STONES	BOULDERS									İ				į	į			
0-12	TOPSOIL Dark Brown (7.5YR 3/3)		SILT LOAM	5	0	0	0	SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	CMN (20% MAX)	MEDIUM TO VERY COARSE	NONE					1
				GRAVEL	COBBLES	STONES	BOULDERS									İ				į	į			
								-								İ				İ				
12-24	Yellowish Brown (10YR 5/4)		SILTY CLAY	10	5	5	0	SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC	CLEAR <2.5"	WAVY	CMN (20% MAX)	FINE TO COARSE	MNY (>20% MAX)			BAG	18	S-1
				GRAVEL	COBBLES	STONES	BOULDERS									į				i	į			
				OIOTTE	CODDLLO	OTOTALO	DOOLDLING																	
24-70	Light Olive Brown (2.5Y 5/6)	GRAVELLY	SILT LOAM	20	10	5	5	SUBANGULAR BLOCKY	WEAK	FINE	MOIST	FRIABLE	SLIGHTLY STICKY	SLIGHTLY PLASTIC	CLEAR <2.5"	WAVY	NONE		MNY (>20% MAX)	COARSE >15MM	PROMINENT	BAG	40	S-2 PT-17 @ 48" = 1.0 IPH
				GRAVEL	COBBLES	STONES	BOULDERS																	
70-138	Light Olive Brown (2.5Y 5/4)	GRAVELLY & COBBLY	SILTY CLAY	25	20	20	10	SUBANGULAR BLOCKY	WEAK	FINE	MOIST	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC			NONE		MNY (>20% MAX)	COARSE >15MM	PROMINENT	BAG	90	S-3
					1		ł																	
								_																
					1	İ	1											İ		1	į			. [
					1											l				1	i T			. 1
					1	ļ	1	4		J														. [
1					1											l		1		1				. 1
					1	į.	İ			J						l				İ	İ			. [
				l	1	1	1			J						l		1		1	1			. [
					1	ļ	į											1		į	į			
								-																
1				l	1	1	I									l		1		1	1			
A 1 197 1	Pamarke: Soil Pr							1				1			1	:	1							

Additional Remarks: Soil Profile Pit SPP-17 was terminated at approximately 11.5 feet below the ground surface.



Page <u>1</u> of <u>1</u>

Project:	Proposed Industrial	Warehouse										Project No.:	2803-99-012E											
Location:	US Highway 9W, To	wn of Cornwall,	Orange County, New	York							ſ	Client:		LC c/o Treetop Develop	ment, LLC			ı						
Surface Eleva Termination I		191.0 10.7	Date Started: Date Completed:				3/7/22		Groundw	ater Data			Depth (ft)			El.				Ground	vater Commer	ıts		
Proposed Loc		SWM	Date Completed.	Logged by:	:		I. Gomez		Seepage				NE NE			(11)								
Excavation				Contractor:		(Carroccia		Groundwater				8.5			182.5		Light Gray (10	YR 7/1) mottlii	ıg 36" - 128"				
/ Test Method:	Visual Observation			Rig Type:		Dee	re Excavator		Mottling				3.0			188.0								
	COLOD								STRUCTURE		WATER		CONSISTENCY		BOUN	IDARY	ROOTS		MOTTLI	iG .	SA	MPLING		
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	KGMENIS (%)		Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography	ROOTS	Quantity	Siz	Contrast	Type I	Depth (in)	No.	LAB RESULTS
				GRAVEL	COBBLES	STONES	BOULDERS																	
0-7	TOPSOIL Dark Brown (7.5YR 3/3)		SILT LOAM	5	0	0	0	SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	CMN (20% TO V MAX) COA	RY NONE						
				GRAVEL	COBBLES	STONES	BOULDERS																	
7-36	Yellowish Brown (10YR 5/4)	COBBLY	SILTY CLAY	10	15	5	0	SUBANGULAR BLOCKY	MODERATE	FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	MNY (>20% FINE MAX) MED	TO NONE			BAG	18	S-1	
				GRAVEL	COBBLES	STONES	BOULDERS																	
36-64	Dark Yellowish Brown (10YR 4/4)	GRAVELLY & COBBLY	SANDY CLAY LOAM	20	25	10	5	SUBANGULAR BLOCKY	WEAK	MEDIUM	MOIST	FRIABLE	SLIGHTLY STICKY	SLIGHTLY PLASTIC	CLEAR <2.5"	WAVY	NONE	MNY (>20° MAX)	6 COAR >15N		BAG	48	S-2 P	PT-18 @ 48" = 0.5 IPI
				GRAVEL	COBBLES	STONES	BOULDERS																	
64-128	Olive Brown (2.5Y 4/4)	GRAVELLY & COBBLY	CLAY	20	25	15	10	SUBANGULAR BLOCKY	WEAK	VERY FINE	WET	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC			NONE	MNY (>20° MAX)	6 COAR >15N		BAG	80	S-3	
					ļ	-													-	-				
								1																
dditional F	Remarks: Soil Pro	ofile Pit SPP-1	8 was terminated	at approxima	tely 10.7 feet	below the	ground surfac	e.			1	1		+	1					1				



Page <u>1</u> of <u>1</u>

Soil Profile Pit: SPP-19

	Proposed Industrial												2803-99-012E											
			Orange County, New	York			3/22/22							C c/o Treetop Develop	ment, LLC									
Surface Elev		140.0	Date Started:				3/22/22		Groundw	ater Data			Depth			El.					Groundwa	ater Comn	nents	
Termination		9.9 SWM	Date Completed:				. Gomez		_				(ft) NE			(ft)								
Proposed Lo Excavation	ocation:	SVIVI		Logged by: Contractor:			Carroccia		Seepage				7.0			133.0								
/ Test	Visual Observation						re Excavator		Groundwater				1.3			138.7			Light Gray (10 YR	7/1) mottling 15"	- 119"			
Method:				Rig Type:	:	Dee	re excavator	1	Mottling			1					1							
									STRUCTURE		WATER		CONSISTENCY		BOU	IDARY				MOTTLING			SAMPLING	
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	AGMENTS (%)					CONTENT	Resistance to				1	ROO	TS					Danish	LAB RESULTS
								Shape	Grade	Size		Rupture	Stickiness	Plasticity	Distinctness	Topography			Quantity	Size	Contrast	Type	Depth (in)	No.
										1								1					, <i>,</i>	
				GRAVEL	COBBLES	STONES	BOULDERS													l	l			1
	TOPSOIL				1	1	1						SLIGHTLY				CMN (20%	MEDIUM						ı İ
0-15	Dark Brown		SILT LOAM		ļ	l	İ	SUBANGULAR			MOIST	FRIABLE	STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	MAX)	TO VERY	NONE					ı İ
	(7.5YR 3/3)			5	0	0	0	BLOCKY	MODERATE	VERY FINE								COARSE						ı İ
					1	1	i											1						1
					+	 	+											+						
				GRAVEL	COBBLES	STONES	BOULDERS											1						1
					1	,	1											FINE TO						
15-52	Yellowish Brown (10YR 5/4)	GRAVELLY	SANDY LOAM		1	1	i	SUBANGULAR			MOIST	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC	CLEAR <2.5"	WAVY	MNY (>20% MAX)	VERY	FEW (5% MAX)	MEDIUM 5MM-15MM	FAINT	BAG	30	S-1 PT-19 @ 48" = 4.0 IPH
	(1011/3/4)			10	15	10	10	BLOCKY	MODERATE	VERY FINE			SHOKI	PEASITO			mAX)	COARSE		JMM-1JMM	l			1
								BECOIL																ir I
					-	ļ —	-											 						
				GRAVEL	COBBLES	STONES	BOULDERS																	ir I
	Dark Yellowish				1	1	1						SLIGHTLY					1						S-2
52-84	Brown		SILT		1	1	i	SUBANGULAR			MOIST	FRIABLE	STICKY	NONPLASTIC	CLEAR <2.5"	WAVY	NONE	1	CMN (20% MAX)	COARSE >15MM	DISTINCT	BAG	54	S-2
	(10YR 3/4)			5	10	0	0	BLOCKY	MODERATE	FINE			O I I OKI					1		- 10				i l
					1	,	1	BEGOIN										1		ļ				1
-					 	 	-											 			-			
				GRAVEL	COBBLES	STONES	BOULDERS																	ı İ
	Dark Yellowish	EXTREMELY			1																			i l
84-119	Brown	GRAVELLY &	SILT LOAM		į	į	į				WET	FRIABLE	SLIGHTLY STICKY	NONPLASTIC			NONE		CMN (20% MAX)	COARSE >15MM	DISTINCT	BAG	84	S-3
	(10YR 4/4)	COBBLY		30	20	20	20	SUBANGULAR BLOCKY	WEAK	FINE			SHORT							>15mm	l			1
					-	1	1	BLOCKI										1						1
					i	i	1									i		1		i	i			
					1																			1
					i .	i .	1																	1
					į	į	į													l	l			1
					-	1	1											1						1
					1	1	i											1						1
—				-	-	-	-	 							 		-	+				-		
	[]																							1
	l J				İ	 	İ	1							1			1	1	İ				1
	l J				1	1	1								1			1	1	ĺ	İ			1
					1	1	1								1			İ	1	ĺ	į	1		1
	[]				İ	l																		1
—				-	-	 	+	 							 		-	+				-		
	l J				1		1								1			1	1					1
	l J					<u> </u>	1	1							1			1	1					1
					į	1	ļ								1			1	1			1		1
	l J				į	1	ļ								1			1	1					1
					İ	į	1								1	İ		i		İ	ĺ			
-				1	+	-	+	1				1			1	 	1	+		 	-	\vdash		
					1	1	1								1			1						
	[]				1	-	1	1																
					1	1	1	1							1			1				1		. [
	l J				1		1								1			1	1					
	l J				į	1	ļ								1			1	1					
L				L	1	<u> </u>	1	1				1	l	l	1	i	1	<u>i </u>	l	i	i			
Additional	Remarks: Soil pro	ofile pit SPP-1	9 encountered refu	usal at approx	xımately 9.9 fe	eet due to d	ave-in.																	



Soil Profile Pit: <u>SPP-20</u>
Page <u>1</u> of <u>1</u>

	Proposed Industrial												2803-99-012E											
			Orange County, New	York								Client:	Cornwall Logistics, L	LC c/o Treetop Develops	ment, LLC									
Surface Elev		143.0	Date Started:				3/22/22		Groundw	ater Data			Depth			El.			1		Groundwa	iter Comm	ients	
Termination		14.5	Date Completed:				3/22/22 I. Gomez						(ft) NE			(ft)								
Proposed Lo Excavation	cation:	SWM		Logged by:			Carroccia		Seepage				NE NE											
	Visual Observation			Contractor:				ŧ	Groundwater				6.5			136.5			Light Gray (10 YR	7/1) mottling 78	' - 174"			
Method:				Rig Type:		Deei	re Excavator		Mottling							130.3								
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	GMENTS (%)			STRUCTURE		WATER		CONSISTENCY		BOU	NDARY	ROO	тѕ		MOTTLING			SAMPLING	LAB RESULTS
								Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography			Quantity	Size	Contrast	Туре	Depth (in)	No.
				GRAVEL	COBBLES	STONES	BOULDERS													į	į			.
0-10	TOPSOIL Dark Brown (7.5YR 3/3)		SILT LOAM	5	0	0	0	SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	CMN (20% MAX)	MEDIUM TO VERY COARSE	NONE					
				GRAVEL	COBBLES	STONES	BOULDERS																	
10-78	Brown (7.5YR 5/4)	STONY & BOULDERY	SILTY CLAY	15	20	30	25	SUBANGULAR BLOCKY	WEAK	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC	CLEAR <2.5"	WAVY	NONE		NONE			BAG	24	S-1 PT-20 @ 24* = 0.5 IPH
				GRAVEL	COBBLES	STONES	BOULDERS																	
78-120	Brown (7.5YR 5/4)	EXTREMELY GRAVELLY, COBBLY, STONY & BOULDERY	SANDY CLAY LOAM	20	20	20	30	SUBANGULAR BLOCKY	WEAK	MEDIUM	MOIST	FRIABLE	SLIGHTLY STICKY	SLIGHTLY PLASTIC	CLEAR <2.5"	WAVY	NONE		MNY (>20% MAX)	COARSE >15MM	PROMINENT	BAG	72	S-2
				GRAVEL	COBBLES	STONES	BOULDERS																	
120-174	Dark Brown (7.5YR 3/2)	EXTREMELY GRAVELLY, COBBLY, STONY & BOULDERY		25	15	20	30	SUBANGULAR BLOCKY	WEAK	MEDIUM	MOIST	FRIABLE	SLIGHTLY STICKY	NONPLASTIC			NONE		CMN (20% MAX)	COARSE >15MM	PROMINENT	BAG	130	S-3
																								.
				1	!	!	!					1		1	1		1	1	l		!	ш		

Additional Remarks: Soil profile pit SPP-20 encountered refusal at approximately 14.5 below the ground surface on apparent boulders



Page <u>1</u> of <u>1</u>

Soil Profile Pit: SPP-21

Logard Stringer Everage Country, New York Convenient Transport Convenient Convenie																									
Surface Surf				Orange County, New	York									2803-99-012E Cornwall Logistics, L	I.C.c/o Treeton Develon	ment LLC									
Tember Page	Surface Elev	ation (ft):	152.0							Groundw	vater Data						El.					Groundw	ater Comr	ments	
Campoin Camp				Date Completed:																					
Treat Ministrophysical Par	Proposed Lo Excavation	cation:	SWM																						
COLOR COLO	/ Test	Visual Observation																		Light Gray (10 YR	7/1) mottling 30	- 134"			
DEPTH (N) COLOR SOIL TEXTURE COARSE FRAMENTS (N) SIDE	Method:				Rig Type				1				1			POUL		I			MOTTLING		1	CAMPIN	
Shape Grade Size CUNICNI Resistance to Require Size CUNICNI Resistance to Require Size CONTROL Resistance to Require Size CONTROL S	DEPTH (IN)	COLOR	SOII	TEXTURE		COARSE FRA	GMENTS (%)			STRUCTURE		WATER		CONSISTENCT		BOU	NDART	ROO	TS		MOTTLING	,			LAB RESULTS
ORANGE CORRES STONES BOULDERS STONES BOULDERS STONES BOULDERS STONES BOULDERS STONES BOULDERS STONES BOULDERS STONES BOULDERS STONES BOULDERS STONES STO									Shape	Grade	Size	CONTENT		Stickiness	Plasticity	Distinctness	Topography			Quantity	Size	Contrast	Туре	Depth (in)	No.
TOPSOIL DIE ROWN DIE ROWN DIE ROWN DIE ROWN C.SYR 3/3) SILT LOAM					GRAVEL	COBBLES	STONES	BOULDERS											1						
8-30 Very Dark Gray (2.5Y 3/1) GRAVELLY LOAMY SAND 25 5 0 0 SUBANQULAR WEAK MEDIUM MOIST FRIABLE SLIGHTLY STICKY NONPLASTIC CLEAR <2.5" WAVY MAY CORSE NONE BAG 16 S-1 PT-21@24 STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY NONPLASTIC CLEAR <2.5" WAVY MAY MAY MEDIUM MOIST FRIABLE SLIGHTLY CORSE NONE BAG 16 S-1 PT-21@24 STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY PLASTIC CLEAR <2.5" WAVY MONE CMM (20% MAX) MEDIUM SMM-15MM PROMINENT BAG 100 S-3 STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY STICKY PLASTIC CMM (20% MAX) SMM-15MM PROMINENT BAG 100 S-3 STICKY S	0-8	Dark Brown		SILT LOAM					SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY		TO VERY	NONE					
Solid Very Dark Gray (2.5Y 3/1) GRAVELLY LOAMY SAND 25 5 0 0 SUBANGULAR WEAK MEDIUM MOIST FRIABLE SLIGHTLY STICKY NONPLASTIC CLEAR <2.5* WAVY MAY COBBLY FIVE TO VERY COARSE NONE BAG 16 S-1 PT-21 @ 24					GRAVEL	COBBLES	STONES	BOULDERS											į.						
30-65 Gray (2.5Y 6/1) GRAVELY & SILTY CLAY 25 20 10 5 SUBANGULAR WEAK VERY FINE MOIST FRIABLE SLIGHTLY STICKY VERY PLASTIC CLEAR <2.5* WAVY NONE CMM (20% MAX) MEDIUM SMM-15MM PROMINENT BAG 48 \$-2 \$-2 \$-2 \$-2 \$-2 \$-2 \$-2 \$-2 \$-2 \$-2	8-30	Very Dark Gray (2.5Y 3/1)	GRAVELLY	LOAMY SAND						WEAK	MEDIUM	MOIST	FRIABLE	SLIGHTLY STICKY	NONPLASTIC	CLEAR <2.5"	WAVY		VERY	NONE			BAG	16	S-1 PT-21 @ 24" = 3.0 IPH
COBBLY C					GRAVEL	COBBLES	STONES	BOULDERS																	
65-134 Gray GRAVELY& SANDY CLAY (2.5Y ST) COBBLY LOAM 20 26 10 15 SUBANGULAR WEAK FINE STICKY PLASTIC NONE CMN (20% MAX) MEDIUM 5MM-15MM PROMINENT BAG 100 S-3	30-65		GRAVELY & COBBLY	SILTY CLAY	25	20	10	5		WEAK	VERY FINE	MOIST	FRIABLE		VERY PLASTIC	CLEAR <2.5"	WAVY	NONE		CMN (20% MAX)	MEDIUM 5MM-15MM	PROMINENT	BAG	48	S-2
65-134 Gray GRAVELY& SANDY CLAY (2.5Y ST) COBBLY LOAM 20 26 10 15 SUBANGULAR WEAK FINE STICKY PLASTIC NONE CMN (20% MAX) MEDIUM 5MM-15MM PROMINENT BAG 100 S-3					GRAVEL	COBBLES	STONES	BOULDERS																	
	65-134				20	25	10	15	SUBANGULAR BLOCKY	WEAK	FINE	WET	FRIABLE					NONE		CMN (20% MAX)		PROMINENT	BAG	100	S-3



Soil Profile Pit: SPP-22

Page <u>1</u> of <u>1</u>

	Proposed Industrial												2803-99-012E											
		wn of Cornwall,	Orange County, New	York			3/22/22							LC c/o Treetop Develop	ment, LLC									
Surface Ele		145.0	Date Started:				3/22/22		Groundw	ater Data			Depth			El.					Groundwa	ter Comme	ents	
Termination		11.2 SWM	Date Completed:	Lancadhoo			. Gomez		e				(ft) NE			(ft)								
Proposed L Excavation	ocation:	SVVIVI		Logged by: Contractor:			Carroccia		Seepage				NE											
/ Test	Visual Observation						re Excavator		Groundwater				NE											
Method:				Rig Type:		Dee	ie Excavator	1	Mottling			1												
									STRUCTURE		WATER		CONSISTENCY		BOUN	IDARY				MOTTLING		S	SAMPLING	
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	AGMENTS (%)					CONTENT	Resistance to					ROO	TS				_	Denth	LAB RESULTS
								Shape	Grade	Size		Rupture	Stickiness	Plasticity	Distinctness	Topography			Quantity	Size	Contrast	Type	Depth (in)	No.
				GRAVEL	COBBLES	CTONEC	BOULDERS			•								į.		1	i			
				GRAVEL	COBBLES	STUNES	BOULDERS											1		į	1			
	TOPSOIL				1	ļ	1						SLIGHTLY				CMN (20%	MEDIUM		į.	1			
0-6	Dark Brown (7.5YR 3/3)		SILT LOAM	_	0		1 .	SUBANGULAR	MODERATE	VEDV FINE	MOIST	FRIABLE	STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	MAX)	TO VERY COARSE	NONE	į	į			
	(7.51K 3/5)			5	U	0	0	BLOCKY	MODERATE	VERT FINE								COARSE		į				
					1													į.		1	1 1			
				001115	COBBLES	STONES												į		!	į į			
				GRAVEL	COBBLES	STONES	BOULDERS											į.		1				
	Olive Brown				1	1	i						SLIGHTLY	MODERATELY			MNY (>20%	FINE TO		1				S-2 PT-22 @ 24" = 0.5 IPH
6-40	(2.5Y 4/3)	STONEY	SILTY CLAY	_	1	20	1 _	SUBANGULAR	MODERATE	VEDV FINE	MOIST	FRIABLE	STICKY	PLASTIC	CLEAR <2.5"	WAVY	MAX)	COARSE	NONE	į	1	BAG	27	S-2 PT-22 @ 24" = 0.5 IPH
				5	15	20	5	BLOCKY	MODERATE	VERT FINE								1		į.	1			
																		1		1				
				GRAVEL	COBBLES	STONES	BOULDERS											į.		1				
	Dark Olive Brown	GRAVELY &			1	1	1						SLIGHTLY					1		į.	i l		98	S-2
40-134	(2.5Y 3/3)	COBBLY	SAND	25	20	20	40	SUBANGULAR	MODERATE	COARSE	MOIST	FRIABLE	STICKY	NONPLASTIC			NONE	1	NONE	1		BAG	98	
				25	20	20	10	BLOCKY	MODERATE	COARSE														
					1	1	1											1		1	1			
							1													l				
																		į.		1				
					1		j											İ		}	1			
					1	,	1											1		į.	1			
					1	ļ	1											į.		į.	1			
					İ													1		į				
					1	!	!											į.		!				
					į.		į											İ		ĺ	i l			
						1												1		1				
					1	1	1											1		1				
					1	ļ	İ											į		į				
																		1			1			
					į		į.											į –		ļ.				
					1	<u> </u>	į	4							1			İ		1	l			
				l	1	}	1										1	1		1	l			
1					1												1	1		1				
1					1	1											1			1				
					<u> </u>	<u>i</u>	<u> </u>	<u> </u>							<u> </u>			<u> </u>		<u> </u>	<u> </u>			
					1													1			1 1	\neg		
				ļ	1	-	ļ	4									1	1						
																		1						
				l	1	į											1	1		İ	i l			
				l	1	į	ļ										1	1		1	į l			
					1	į	1							1]	<u>i</u>]	1			
					1		1													1	1 1	\neg		
				ļ	1	-	ļ	4									1	1		1				
				l	1		1										1	1		1	1			
				l	1		1										1	1		1	1			
				l	1	į	į										1	1		1	i I			
					1	<u> </u>	1							1]	<u> </u>]				
Additional	Remarks: Soil pro	ofile pit SPP-2	22 was terminated a	at approximat	tely 11.2 feet	below the o	round surface	э.															_	



Soil Profile Pit: <u>SPP-23</u>
Page <u>1</u> of <u>1</u>

Project:	Proposed Industrial	Warehouse										Project No.:	2803-99-012E											
Location:	US Highway 9W, To	wn of Cornwall,		York								Client:	Cornwall Logistics, LI	LC c/o Treetop Develop	ment, LLC									
Surface Ele	vation (ft):		Date Started:		-		3/22/22		Groundw	ater Data			Depth			El.					Groundwa	ter Comm	ents	
Termination		13.0 SWM	Date Completed:				3/22/22 . Gomez						(ft) NE			(ft)								
Proposed L Excavation	ocation:	SWIN		Logged by: Contractor:			arroccia		Seepage Groundwater				NE											
	Visual Observation						e Excavator		Mottling				NE											
Method:				Rig Type:									CONSISTENCY			NDARY	1			MOTTLING			SAMPLING	
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	GMENTS (%)			STRUCTURE		WATER		CONSISTENCY		BOU	NDARY	ROO	TS		MOTILING				LAB RESULTS
								Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography			Quantity	Size	Contrast	Type	Depth (in)	No.
									!			Kupture						1		ļ			(111)	
0-4	TOPSOIL Dark Brown (7.5YR 3/3)		SILT LOAM	GRAVEL 5	COBBLES 0	STONES 0	BOULDERS 0	SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	CMN (20% MAX)	MEDIUM TO VERY COARSE	NONE					
				GRAVEL	COBBLES	STONES	BOULDERS											1						
4-42	Brown (7.5YR 4/4)	STONEY	SILTY CLAY	5	10	20	5	SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	MNY (>20% MAX)	FINE TO COARSE	NONE			BAG	24	S-1
				GRAVEL	COBBLES	STONES	BOULDERS													ļ.				
42-120	Dark Olive Brown (2.5Y 3/3)	GRAVELLY & COBBLY	LOAMY SAND	25	15	20	10	SUBANGULAR BLOCKY	MODERATE	COARSE	MOIST	FRIABLE	SLIGHTLY STICKY	NONPLASTIC	CLEAR <2.5"	WAVY	NONE		NONE			BAG	48	S-2 PT-23 @ 48" = 3.5
				GRAVEL	COBBLES	STONES	BOULDERS																	
120-156	Olive Brown (2.5Y 4/4)	GRAVELLY & COBBLY	SANDY CLAY LOAM	25	15	20	15	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC			NONE		NONE			BAG	126	S-3
								_																
															1			1						
			3 was tarminated a																					

Additional Remarks: Soil profile pit SPP-23 was terminated at approximately 13 feet below the ground surface.



Page <u>1</u> of <u>1</u>

	Proposed Industrial											Project No.:	2803-99-012E											
Location: Surface Elevi		own of Cornwall, 137.0	Orange County, New Date Started:	York			3/21/22				1	Client:		LC c/o Treetop Develop	ment, LLC	-			1					-
Termination		137.0	Date Started: Date Completed:				3/21/22		Groundw	ater Data			Depth (ft)			El.					Groundw	ater Comn	ments	
Proposed Lo		SWM	Date Completed.	Logged by:			. Gomez		Seepage				NE			(11)								
Excavation				Contractor:			Carroccia		Groundwater				7.5			129.5			Light Gray (10 YR	7/1) mottling 30°	- 162"			
	Visual Observation					Dee	re Excavator						2.5			134.5			Light Oldy (10 11t	771) Mottang 00	102			
Method:				Rig Type:				1	Mottling STRUCTURE				CONSISTENCY			NDARY	1			MOTTLING		1	SAMPLING	
DEPTH (IN)	COLOR	9011	TEXTURE		COARSE FRA	CMENTS (V)			STRUCTURE		WATER		CONSISTENCT		BOU	NDART	ROO	TS.		MOTTLING			SAMPLIN	LAB RESULTS
DEF III (IIV)	OOLON	JOIL	TEXTORE		COAKSETKA	AGMENTS (70)		Shape	Grade	Size	CONTENT	Resistance to	Stickiness	Plasticity	Distinctness	Topography			Quantity	Size	Contrast	Туре	Depth	No.
												Rupture		,				!					(in)	
				GRAVEL	COBBLES	STONES	BOULDERS									į				į	į			1
	TOPSOIL				i	i	i i											MEDIUM			l			1 1
0-6	Dark Brown (7.5YR 3/3)		SILT LOAM	5	0	0	0	SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	CMN (20% MAX)	TO VERY COARSE	NONE					
				GRAVEL	COBBLES	STONES	BOULDERS																	
6-30	Brown (10YR 4/3)	STONEY	SILTY CLAY	10	10	20	5	SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	MNY (>20% MAX)	Very Fine Fine	NONE			BAG	10	S-1
				GRAVEL	COBBLES	STONES	BOULDERS																	
30-90	Dark Brown (7.5YR 3/3)	GRAVELLY & COBBLY	LOAMY SAND	30	20	25	10	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST TO WET	FRIABLE	SLIGHTLY STICKY	SLIGHTLY PLASTIC	CLEAR <2.5"	WAVY	NONE		CMN (20% MAX)	COARSE >15MM	FAINT	BAG	30	S-2 PT-24 @ 48" = 6.0 IPH
					ļ	ļ	ļ											ļ			ļ			
		EXTREMELY		GRAVEL	COBBLES	STONES	BOULDERS											1						
90-138	Dark Brown (7.5YR 3/4)	GRAVELLY, COBBLY, STONY & BOULDERY	SANDY CLAY LOAM	30	15	35	10	SUBANGULAR BLOCKY	MODERATE	MEDIUM	WET	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC			NONE		CMN (20% MAX)	COARSE >15MM	DISTINCT	BAG	96	S-3
					<u> </u>		į																	
					İ	İ	İ																	
					<u> </u>		<u> </u>							1				-						
					ļ	ļ	ļ	1													1			
						-	1																	
							i																	
					İ		İ																	
Additional F	Pamarke: Soil or	ofile nit SDD-2	4 was terminated a	at annrovimat	tely 11 5 feet	helow the o	round surface				1	1	!	+	1		1	*			•			

Additional Remarks: Soil profile pit SPP-24 was terminated at approximately 11.5 feet below the ground surface.



Page <u>1</u> of <u>1</u>

Soil Profile Pit: SPP-25

oject: Proposed Industri ecation: US Highway 9W, urface Elevation (ft):																								
		wall. Oran	ae County, New Y	ork									2803-99-012E Cornwall Logistics, L	LC c/o Treetop Develop	ment. LLC									
	136.0		te Started:				3/21/22		Groundw	ater Data			Depth			El.					Groundw	ater Comm	nents	
rmination Depth (ft):	14.0 SWN		te Completed:				3/21/22 I. Gomez						(ft) NE			(ft)								
oposed Location: xcavation	SWIV	4		Logged by: Contractor:			Carroccia		Seepage Groundwater				2.5			133.5			Light Gray (10 YR	7(4)	4001			
/ Test Visual Observatio	on			Rig Type:			re Excavator		Mottling				2.5			133.5			Light Glay (10 TK	7/1) Motting 30	- 102			
Method:		-		Kig Type.					STRUCTURE		WATER		CONSISTENCY		BOUN	IDARY				MOTTLING		:	SAMPLING	
EPTH (IN) COLOR		SOIL TEX	TURE		COARSE FRA	GMENTS (%)		Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography	ROO	TS	Quantity	Size	Contrast	Туре	Depth (in)	No.
				GRAVEL	COBBLES	STONES	BOULDERS											İ						
TOPSOIL Dark Brown (7.5YR 3/3)			SILT LOAM	5	0	0	0	SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	CMN (20% MAX)	MEDIUM TO VERY COARSE	NONE					
				GRAVEL	COBBLES	STONES	BOULDERS																	
6-30 Brown (7.5YR 4/3)	STONE	EY	SANDY CLAY LOAM	5	15	20	5	SUBANGULAR BLOCKY	MODERATE	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	CMN (20% MAX)	FINE TO COARSE	NONE			BAG	26	S-1 T-1 PT-25 @ 24" = 2.5 IP
				GRAVEL	COBBLES	STONES	BOULDERS											1						
30-96 Dark Olive Gray (5Y 3/2)	GRAVEL COBBLY, S & BOULD	LLY, STONY	LOAMY SAND	45	20	15	5	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	SLIGHTLY STICKY	SLIGHTLY PLASTIC	CLEAR <2.5"	WAVY	NONE		CMN (20% MAX)	MEDIUM 5MM-15MM	DISTINCT	BAG	36	S-2
				GRAVEL	COBBLES	STONES	BOULDERS																	
96-168 Olive Brown (2.5Y 4/4)	GRAVEL COBBLY, S & BOULD	LLY, STONY	SAND	45	25	15	10	SUBANGULAR BLOCKY	MODERATE	COARSE	MOIST	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC			NONE		CMN (20% MAX)	MEDIUM 5MM-15MM	DISTINCT	BAG	100	S-3
			-					_																
								_																
dditional Remarks: Soil								_																



Page <u>1</u> of <u>1</u>

Project:	Proposed Industria	Il Warehouse	Orange County, New									Project No.:	2803-99-012E											
Surface Ele		220.0	Date Started:	YORK			11/11/22				ı	Client:	Cornwall Logistics, LL Depth	C C/O Treetop Develop	ment, LLC	El.								
Termination		3.7	Date Completed:				11/11/22		Groundy	water Data			(ft)			(ft)				Groundy	water Com	ments		
Proposed L	ocation:	SWM		Logged by	:		3. Seselgis		Seepage				NE			- (-9								
Excavation				Contractor		Neighbors F	Property Managen	nent	Groundwater				NE					Light Gray (10 YF	R 7/1) mottling 2	28" - 44"				
/ Test Method:	Visual Observation			Rig Type		В	lobcat E60		Mottling				2.3			217.7								
metriou.			I						STRUCTURE				CONSISTENCY		POLIN	IDARY			MOTTLING			SAMPLIN	ıc	
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	AGMENTS (%)		SIKOCIOKE		WATER		CONSISTENCT		BOOK	DAKI	ROOTS		MOTILING					LAB RESULTS
(,							,	Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography		Quantity	Size	Contrast	Type	Depth (in)	No.	
									1	1		Rupture				l	-					(in)		
				GRAVEL	COBBLES	STONES	BOULDERS																	
	TOPSOIL																							
0-11	Dark Gray		SILT LOAM								MOIST	FRIABLE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	SMOOTH	CMN (20% MEDI MAX)	JM NONE			BAG	6	S-1	
	(10YR 4/1)			0	0	0	0	SUBANGULAR BLOCKY	WEAK	MEDIUM							mAA)							
																					-			
				GRAVEL	COBBLES	STONES	BOULDERS																	
	Light Yellowish							4																
11-28	Brown	COBBLY	SILT LOAM								MOIST	FRIABLE	NONSTICKY	SLIGHTLY	CLEAR <2.5"	WAVY	NONE	NONE			BAG	16	S-2	PT-101 @ 16" = 0.25 IPH
	(10YR 6/4)			10	10	0	0	SUBANGULAR BLOCKY	MODERATE	MEDIUM				PLASTIC										IPH
								BLUCKT																
				GRAVEL	COBBLES	STONES	BOULDERS														1	1		
	C W							-																
28-44	Gray Weathered Rock	EXTREMELY	SILT LOAM								MOIST	FRIABLE	NONSTICKY	NONPLASTIC			NONE	FEW (5% MAX)	FINE	FAINT	BAG	36	S-3	
	(10YR 5/1)	GRAVELLY		60	20	10	0	PLATY	MODERATE	MEDIUM									<5MM					
								_																
								1													1	1		
																					1	1		
																					1	1		
				1													1				1			
																					1	1		
				1											1									
																					1	1		
																	1				1			
																	1							
																	1							
																					1			
1								4																
																	1							
1																					1	1		
1																					1	1		
1																					1	1		
Additional	Remarks: Soil p	rofile pit SPP-	101 encountered r	efusal on wea	athered rock :	at approxim	nately 3.7 feet	below the groun	nd surface on a	pparent rock.														



Soil Profile Pit: <u>SPP-102</u>
Page <u>1</u> of <u>1</u>

Project:	Proposed Industria	I Warehouse										Project No.:	2803-99-012E										
Location:	US Highway 9W, To	own of Cornwal	I, Orange County, Ne	w York								Client:	Cornwall Logistics, LL	LC c/o Treetop Develop	pment, LLC								<u> </u>
Surface Elev	ration (ft):	224.0	Date Started:				11/11/22		Groundw	vater Data			Depth			El.		1		Groundw	nter Corre	nente	
Termination		5.0	Date Completed:				11/11/22			/			(ft)			(ft)		1		Groundw			
Proposed Lo Excavation		SWM		Logged by			. Seselgis		Seepage				NE		1			-					
/ Test	Visual Observation			Contractor		-	roperty Managem	ent	Groundwater				NE					1					
Method:		,		Rig Type	н:	В	obcat E60		Mottling				NE			-							
DEPTH (IN)	COLOR	so	IL TEXTURE		COARSE FRA	AGMENTS (%			STRUCTURE		WATER		CONSISTENCY		BOU	NDARY	ROOTS		MOTTLING	,		SAMPLIN	I AR RESULTS
								Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography		Quantity	Size	Contrast	Туре	Depth (in)	No.
				GRAVEL	COBBLES	STONES	BOULDERS																
0-8	TOPSOIL Dark Gray (10YR 4/1)		SILT LOAM	0	0	0	0	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	SMOOTH	CMN (20% MEDIUM MAX) MEDIUM	NONE			BAG	4	S-1
				GRAVEL	COBBLES	STONES	BOULDERS																
8-36	Light Yellowish Brown (10YR 6/4)	VERY STONE	Y SILT LOAM	15	10	10	0	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	SLIGHTLY PLASTIC	GRADUAL <5"	SMOOTH	NONE	NONE			BAG	24	S-2 PT-102 @ 30" = 1.0 IPH
				GRAVEL	COBBLES	STONES	BOULDERS																
36-48	Light Yellowish Brown (10YR 6/4)	EXTREMELY GRAVELLY		30	20	10	10	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	NONPLASTIC	GRADUAL <5"	SMOOTH	NONE	NONE			BAG	48	S-3
				GRAVEL	COBBLES	STONES	BOULDERS																
48-60	Yellow Brown (10YR 5/4) Weathered Rock	EXTREMELY GRAVELLY		40	30	10	10	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	NONPLASTIC			NONE	NONE			BAG	60	S-4
																							
								1															
Additional	Remarks: Soil pr	rofile pit SPP-	102 encountered	efusal at appr	oximately 5.0	feet below	the around su	irface on appar	ent rock				1	1	1		1						

Additional Remarks: Soil profile pit SPP-102 encountered refusal at approximately 5.0 feet below the ground surface on apparent rock



Soil Profile Pit: <u>SPP-103</u>
Page <u>1</u> of <u>1</u>

	Proposed Industrial												2803-99-012E											
		own of Cornwall, C	Orange County, New	York								Client:	Cornwall Logistics, LL	C c/o Treetop Develops	ment, LLC									
Surface Elev			Date Started:				11/11/22		Groundw	nter Data			Depth			El.				Groundwa	ater Com	nente		
Termination	Depth (ft):	3.5	Date Completed:				11/11/22		Ground	atti Data			(ft)			(ft)				Ground	attr Com	iii.iii.s		
Proposed Lo		SWM		Logged by:			. Seselgis		Seepage				NE											
Excavation	Visual Observation			Contractor:		Neighbors Pr	roperty Managem	nent	Groundwater				NE											
Method:	Visual Observation			Rig Type:		Bo	obcat E60		Mottling				NE											
									STRUCTURE		WATER		CONSISTENCY		BOUN	DARY			MOTTLING			SAMPLING	3	
DEPTH (IN)	COLOR	SOIL 1	TEXTURE		COARSE FRA	AGMENTS (%)	1	Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography	ROOTS	Quantity	Size	Contrast	Туре	Depth (in)	No.	LAB RESULTS
0-8	TOPSOIL Dark Gray (10YR 4/1)		SILT LOAM	GRAVEL 0	COBBLES 0	STONES 0	BOULDERS 0	SUBANGULAR BLOCKY	WEAK	MEDIUM	MOIST	FRIABLE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	SMOOTH	CMN (20% MEDIUN MAX)	NONE			BAG	4	S-1	
8-30	Yellowish Brown (10YR 5/4)	COBBLY	SILT LOAM	GRAVEL 10	COBBLES 10	STONES 0	BOULDERS 0	SUBANGULAR BLOCKY	WEAK	MEDIUM	MOIST	FRIABLE	NONSTICKY	SLIGHTLY PLASTIC	GRADUAL <5"	sмоотн	NONE	NONE			BAG	24	S-2	PT-103 @ 24" = 0.5 IPH
				GRAVEL	COBBLES	STONES	BOULDERS																	
30-42	Yellow Brown (10YR 5/4) Weathered Rock	EXTREMELY GRAVELLY	SANDY LOAM	30	20	10	10	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	SLIGHTLY PLASTIC			NONE	NONE			BAG	36	S-3	
								_																
								_																
								-																
								_																

Additional Remarks: Soil profile pit SPP-103 encountered refusal at approximately 3.5 feet below the ground surface on apparent rock.



Page <u>1</u> of <u>1</u>

Project:	Proposed Industria	l Warehouse										Project No.: Client:	2803-99-012E	LC c/o Treetop Develop										
Surface Ele	us Highway 9W, 10	222.0	Orange County, New Date Started:	YORK			11/10/22		I	1		Client:	Depth	LC c/o Treetop Develop	ment, LLC	El.		1						
	n Depth (ft):	9.3	Date Completed:				11/10/22		Ground	water Data			(ft)			(ft)				Ground	water Com	ments		
Proposed L	ocation:	SWM		Logged by	:		U. Khan		Seepage				NE											
Excavation	Visual Observation			Contractor:	:	Neighbors P	roperty Managem	nent	Groundwater				NE					Light gray (10	YR 7/1) mottling	32" - 58"				
Method:	Visual Observation			Rig Type	e e	В	obcat E60		Mottling				2.7			219.3								
									STRUCTURE				CONSISTENCY		BOUN	IDARY			MOTTLING	3		SAMPLIN	G	
DEPTH (IN	COLOR	SOIL	TEXTURE		COARSE FRA	AGMENTS (%))	-		_	WATER CONTENT	Resistance to					ROOTS				+	Depth	_	LAB RESULTS
								Shape	Grade	Size		Rupture	Stickiness	Plasticity	Distinctness	Topography		Quantity	/ Size	Contrast	Type	(in)	No.	
				GRAVEL	COBBLES	STONES	BOULDERS		•										•	•				
				GIUTUEE	CODDLLO	OTOTED	DOOLDENO																	
0-9	TOPSOIL Brown	GRAVELLY	SILT LOAM								MOIST	FRIABLE	NONSTICKY	NONPLASTIC	ABRUPT <1"	SMOOTH	MNY (>20% VEI	Y NONE						
0-9	(7.5YR 4/2)	GRAVELLT	SILI LUAW	20	0	0	0	SUBANGULAR	WEAK	MEDIUM	MICIST	FRIABLE	NONSTICKT	NONPLASTIC	ADRUPT CT	SMOOTH	MAX) COA	SE NONE						
	(20		0		BLOCKY	· · ·	iii E Dioiii														
			·	GRAVEL	COBBLES	STONES	BOULDERS												-					
	1							4																
9-32	Yellowish Brown	VERY CORRI V	SANDY LOAM								MOIST	FRIABLE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	WAVY	FEW (5% MAX) FIN	E NONE			BAG	20	S-1	PT-104 @ 24" = 2.75
5-52	(10YR 5/4)	VERT GODDET	OPERET LOPER	20	20	0	0	SUBANGULAR	WEAK	MEDIUM		TRIADEL	Non-	NOM EAD TO	OLLAN -2.0	••••	1 E 11 (0 / 0 III / 0 /)	i iiii			JA0		J.,	IPH
				20	20		Ü	BLOCKY																
				GRAVEL	COBBLES	STONES	BOULDERS																	
								_																
32-58	Light Olive Brown	VERY COBBLY	SILT LOAM								MOIST	FRIABLE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	WAVY	FEW (5% MAX) VER	Y FEW (5% M	AY) FINE	FAINT	BAG	50	S-2	
02-00	(2.5Y 5/6)	VERT GODDET	OIL! LOPUII	30	30	0	0	SUBANGULAR	WEAK	MEDIUM		TRIADEL	Non-	NOM EAD TO	OLLAN -2.0	••••	FIN	E	<5MM		JA0		0.2	
						-	-	BLOCKY																
				GRAVEL	COBBLES	STONES	BOULDERS																	
								_																
58-112	Light Olive Brown	EXTREMELY	SILT LOAM								MOIST	FRIABLE	NONSTICKY	NONPLASTIC			FEW (5% MAX) FIN	E NONE						
	(2.5Y 5/6)	BOULDERY		10	20	20	40	SUBANGULAR	WEAK	VERY COARSE														
								BLOCKY																
-	+							-													+	-	-	
	1	1																			1	1		
	1	1						1													1	1		
	1																							
	1	1																			1	1		
	1	1																			1	1		
	+																	_			+			
	1																							
	1	1																			1	1		
	1	1																			1	1		
	1	1																			1	1		
	1	1																			1	1		
	1							1							1						1	1		
	1	1						_													1	1		
	1	1		1 -																	1	1		
	1	1																			1	1		
	1	1																			1	1		
	1	1																			1	1		
A -1 -1:4:	D							the managed acced	0.1.6	1 ODD 404		ć l . l	atoly 0.2 foot bolow t										·	

Additional Remarks: 0 to 9 inches of topsoil encountered. Roots encountered to approximately 86 inches below the ground surface. Soil profile pit SPP-104 encountered refusal at approximately 9.3 feet below the ground surface.



Soil Profile Pit: <u>SPP-105</u>
Page <u>1</u> of <u>1</u>

State Stat	L																									
The restaur of the re	Project:	Proposed Industria	I Warehouse	Orango County No	Vork								Project No.:	2803-99-012E	C ala Traatan Daveter	mont LLC										
Martin M					TOTK			11/10/22		1	1		Cilenc		.c cro Treetop Develop	ment, LLC	FI									
Second Content of Market Property of Market Prope										Ground	water Data											Grounds	water Com	iments		
Market M	Proposed Lo	ocation:	SWM					U. Khan		Seepage				NE												
Marked Bark Marked Bark	Excavation	Visual Observation			Contractor:				nent	Groundwater							-			1						
Here results for the control of the	Method:	visuai Ouservalion			Rig Type	:	В	obcat E60		Mottling				NE												
Process Control Cont														CONSISTENCY		BOU	NDARY				MOTTLING			SAMPLIN	IG	
Part Part	DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	AGMENTS (%)		1			Pasistance to				1	ROOT	TS		1	1		Denth	_	LAB RESULTS
Part Control									Shape	Grade	Size			Stickiness	Plasticity	Distinctness	Topography			Quantity	Size	Contrast	Type	(in)	No.	
Part Control					GRAVEI	CORRIES	STONES	BOLIL DERS		•	•						•				•	•				
					CITTLE	OODDEEO	OTOTEC	DOOLDENO	4																	
Carrier Carr	0-7		GRAVELLY	SILTIOAM								MOIST	FRIARI F	NONSTICKY	NONPLASTIC	ARRIIPT <1"	WAVY	MNY (>20%	VERY	NONE						
The second of the second of	0-7		GRAVELLI	SILT LOAM	20	0	0	0	SUBANGULAR	WEAK	MEDIUM	MOISI	FRIADLE	HONSTICKT	HORFEASTIC	ABROFISI	WAV	MAX)	COARSE	NONE						
7-2. ***Plane									BLOCKY																	
7-2. ***Plane																										
Company Comp					GRAVEL	COBBLES	STONES	BOULDERS																		
Company Comp									+																	
19 20 20 20 20 20 20 20 2	7-24	Yellowish Brown	VERY STONEY	LOAMY SAND								MOIST	FRIABLE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	WAVY	CMN (20%	MEDIUM	NONE			BAG	10	S-1	PT-105 @ 12" = 20.5
24-36 UgM CRIVE LOANY SAND 10 30 00 0 SIRMOULAR WELL VERY COMBE MOST HARD NOISTCY NOISTCAN NOISTCY NOISTCAN NOISTCY NOISTCAN NOISTCY NOISTCAN NOISTCY NOISTCAN NOI		(10YR 5/4)			20	20	20	0	SUBANGULAR	WEAK	MEDIUM							MAX)								IPH
4-25									BLOCKI																	
4-25																									-	
C28766 10 10 30 50 0 SUMANGUAR WEAK VERY COMBS 10 10 10 10 10 10 10 1					GRAVEL	COBBLES	STONES	BOULDERS																		
C28766 10 10 30 50 0 SUMANGUAR WEAK VERY COMBS 10 10 10 10 10 10 10 1									1																	
10 50 50 6 BLOOKY WELK COMBE	24-36	Light Olive Brown	STONEY	LOAMY SAND					CUDANCIII AD			MOIST	HARD	NONSTICKY	NONPLASTIC			NONE		NONE			BAG	36	S-2	
		(2.51 5/6)			10	30	50	0	BLOCKY	WEAK	VERY COARSE															
																									++	
																									-	
Idditional Permote-Wheathead force accountered form 24 inches to 25 inches. Soil profile all stangering table 3 fixed below the around aurices.																										
Idditional Remotes Meathered rode accomplaned from 24 police in 36 inches. Soil profile all SPE-105 encombered refused at accomplaned from 24 police in 36 inches. Soil profile all SPE-105 encombered refused at accomplaned from 24 police in 36 inches. Soil profile all SPE-105 encombered refused at accomplaned from 24 police in 36 inches. Soil profile all SPE-105 encombered refused at accomplaned from 24 police in 36 inches. Soil profile all SPE-105 encombered refused at accomplaned from 24 police in 36 inches. Soil profile all SPE-105 encombered refused at accomplaned from 24 police in 36 inches. Soil profile all SPE-105 encombered refused at accomplaned from 24 police in 36 inches.																										
Idditional Parastre's Marthand rody accountered from 24 police for 36 inches. Soil profile oil SPD-105 executed refusal at accommend re																										
									4																	
Idditional Remotes Meathered rode accomplated from 24 police to 36 inches. Sail profile all SPE-105 encomplated series at a consyminately 3.0 feet below the count surface.																								1		
Idditional Remote: Meathered rode accomplated from 24 police to 36 inches. Still profile all SRD-105 encomplated for the accomplated from 24 police to 36 inches. Still profile all SRD-105 encomplated for the accomplated from 24 police to 36 inches. Still profile all SRD-105 encomplated for the accomplated from 24 police to 36 inches. Still profile all SRD-105 encomplated for the accomplated from 24 police to 36 inches. Still profile all SRD-105 encomplated for the accomplated for t	1															1							1	1		
Idditional Remarks: Weatheand rook accountered from 24 police to 36 inches. Soil profile nil SPD-105 encountered refusal at accommend surface.	1															1							1	1		
Idditional Remote: Meathered rody accountered from 24 police in 36 inches. Still profile all SPE-105 encountered refusal at accommodaly 3.0 feet below the cround surface.																										
Idditional Remarks: Weathered rook accountered from 24 police in 36 inches. Soil profile nil SPD-105 encountered series i at accommend surface.	1															1							1	1		
Idditional Remarks: Meathered rook accountered from 24 Inches to 36 inches. Still profile nil SPB-105 encountered refusal at accommend refusal at accommend surface.	1				 				1							1							1	1		
Idditional Remarks: Weatheard rook accountered from 24 inches to 36 inches. Soil profile nit SPD-105 encountered refusal at approximately 3.0 feet below the around surface.																								1		
Idditional Remarks: Weatheard rock accountered from 24 inches to 36 inches. Soil profile nil SPD-105 encountered refusal at accommend surface.	1															1							1	1		
Idditional Remote: Meathered rock accordated from 24 police to 36 inches. Still profile all SPB-105 executed refusal at accordately styles.	1															1							1	1		
Idditional Remarks: Weathered rock accountered from 24 inches to 36 inches. Soil profile nit SPD-105 encountered refusal at approximately 3.0 feet below the around surface.	—		1		ļ				1				-			1		1		1			+	1	+	
Idditional Remarks: Neatheant rock accountered from 24 Inches to 36 inches. Soil profile all SPB-105 encountered refusal at accommend surface.																										
Iditional Remarks: Weathered rock annountered from 24 inches to 36 inches. Soil profile nit SPD-105 encountered refusal at approximately 3.0 feet below the around surface.	1				 				1							1							1	1		
Idditional Remarks: Weathered rock accountered from 24 inches to 36 inches. Soil profile all SPD-105 encountered refusal at approximately 3.0 feet below the ground surface.																								1		
Iditional Remarks: Meathered rock annountered from 24 inches to 36 inches. Soil profile nit SPD-105 enguridated refusal at approximately 3.0 feet below the ground surface.	1															1							1	1		
Idilional Remarke: Maethered rock accountered from 24 inches to 36 inches. Soil profile nit SPD-105 encountered refused at approximately 3.0 feet helps the province surface.																										
	Additional	Pemarke:Weath	l ered rock coo	ountered from 24 i	nchee to 26 :	nchee Soil r	nrofile nit CI	DD-105 encou	ntered refused at	annrovimatel	v 3 N feet helow	the around a	urface	1	l .	1		1		1				1		



Page <u>1</u> of <u>1</u>

	_	V. Town	renouse																						
Surface Elevation (R):			of Cornwall,	Orange County, New	York								Project No.: Client:	2803-99-012E Cornwall Logistics, LL	C c/o Treetop Developi	ment, LLC									
Termination Depth (th): SUM Date Completed: T1711/22 T17111/22 T17111/22 T17111/22 T17111/22			219.0	Date Started:						Groundw	ater Data			Depth	•						Groundw	ater Comm	ents		
Treat Trea				Date Completed:	I amount to																				
Fig Type: Solical Ed. Multiling STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STORE SOLIDERS SOLIDERS STORE SOLIDERS STORE SOLIDERS STORE SOLIDERS STORE SOLIDERS STORE SOLIDERS STORE SOLIDERS STORE SOLIDERS STORE SOLIDERS SOLIDERS STORE SOLIDERS SOLIDERS STORE SOLIDERS STORE SOLIDERS STORE SOLIDE			OWW						nent	Groundwater									1						
DEPTH (IN) COLOR SOIL TEXTURE COARSE FRAGMENTS (%) STRUCTURE STRUCTURE COARSE FRAGMENTS (%) Shape Grade Size CONTENT Resistance to Rupture Stickiness Plasticity Distinctness Topography ROOTS Quantity Size Co. Coarse fragments (%) Shape Grade Size Content Resistance to Rupture Stickiness Plasticity Distinctness Topography ROOTS Quantity Size Co. Coarse fragments (%) Shape Grade Size Content Resistance to Rupture Stickiness Plasticity Distinctness Topography ROOTS Quantity Size Co. Coarse fragments (%) Shape Grade Size Content Resistance to Rupture Stickiness Plasticity Distinctness Topography ROOTS Quantity Size Co. Coarse fragments (%) Shape Grade Size Content Resistance to Rupture Stickiness Plasticity Distinctness Topography ROOTS Quantity Size Co. Coarse fragments (%) Shape Grade Size Content Resistance to Rupture Stickiness Plasticity Distinctness Topography ROOTS Quantity Size Co. Coarse fragments (%) Shape Grade Size Content Resistance to Rupture Stickiness Plasticity Distinctness Topography ROOTS Quantity Size Co. Coarse fragments (%) Shape Grade Size Content Resistance to Rupture Stickiness Plasticity Distinctness Topography ROOTS Quantity Size Co. Coarse fragments (%) Stickiness Plasticity Distinctness Topography ROOTS (CLEAR <2.5" SMOOTH CM (20% MAX) NONE NONE NONE NONE NONE NONE NONE NON		tion												NE					1						
DEPTH (N) COLOR SOIL TEXTURE COARSE FRAGMENTS (%) Shape Grade Size CONTENT Resistance to Rupture Stickiness Plasticity Distinctness Topography ROOTS Quantity Size CC Rupture Stickiness Plasticity Distinctness Topography GRAVEL COBBLES STONES BOULDERS SILT LOAM SILT LOA	Ī				rug i ypc					•		WATER		CONSISTENCY		BOUN	IDARY			MOTTLING			SAMPLING		
TOPSOIL Dark Brown (7.5YR 3/3) SILT LOAM S	۱		SOIL	TEXTURE		COARSE FRA	AGMENTS (%))	Shape	Grade	Size			Stickiness	Plasticity	Distinctness	Topography	ROOTS	Quantity	Size	Contrast	Туре	Depth (in)	No.	LAB RESULTS
0-8 Dark Brown (7.5YR 3/3) SILT LOAM S 0 0 0 0 SUBANQULAR BLOCKY WEAK MEDIUM S 0 0 0 0 SUBANQULAR BLOCKY WEAK MEDIUM S 0 0 0 0 NONE SUBANQULAR MEDIUM MOIST FRIABLE NONSTICKY NONPLASTIC CLEAR <2.5' SMOOTH LINK (UPN-MEDIUM MAX) MOIST FRIABLE NONSTICKY SLIGHTLY PLASTIC CLEAR <2.5' SMOOTH WINK (UPN-MEDIUM MAX) NONE NONE S 0 0 0 0 0 SUBANQULAR BLOCKY WEAK MEDIUM NONE S 0 0 0 0 0 SUBANQULAR BLOCKY WEAK MEDIUM NONE S 0 0 0 0 0 NONE S 0 0 0 0 0 SUBANQULAR BLOCKY WEAK MEDIUM NONE S 0 0 0 0 0 NONE S 0 0 0 0 0 NONE S 0 0 0 0 0 SUBANQULAR BLOCKY WEAK MEDIUM MOIST FRIABLE NONSTICKY NONPLASTIC CLEAR <2.5' WAVY NONE NONE S 0 0 0 0 0 0 NONE S 0 0 0 0 0 NONE S 0 0 0 0 0 NONE S 0 0 0 0 0 NONE S 0 0 0 0 0 NONE S 0 0 0 0 0 NONE S 0 0 0 0 0 NONE S 0 0 0 0 0 0 NONE S 0 0 0 0 0 NONE S 0 0 0 0 0 NONE S 0 0 0 0 0 NONE S 0 0 0 0 0 NONE S 0 0 0 0 0 NONE S 0 0 0 0 0 NONE S 0 0 0 0 0 NONE S 0 0 0 0 0 NONE S 0 0 0 0 0 NONE S 0 0 0 0 0 NONE S 0 0 0 0 0 0 NONE S 0 0 0 0 0 0 NONE S 0 0 0 0 0 0 NONE S 0 0 0 0 0 0 NONE S 0 0 0 0 0 0 NONE S 0 0 0 0 0 0 NONE S 0 0 0 0 0 0 NONE S 0 0 0 0 0 0 NONE S 0 0 0 0 0 0 NONE S 0 0 0 0 0 0 NONE S 0 0 0 0 0 0 NONE S 0 0 0 0 0 0 NONE S 0 0 0 0 0 0 NONE S 0 0 0 0 0 0 0 NONE S 0 0 0 0 0 0 0 NONE S 0 0 0 0 0 0 0 0 NONE S 0 0 0 0 0 0 0 0 NONE S 0 0 0 0 0 0 0 0 0 0 0 NONE S 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	I				GRAVEL	COBBLES	STONES	BOULDERS					Kupture							- 1			(111)		
Light Yellowish Brown (16VR 64) Light Yellowish Brown (16VR 64) VERY GAVELLY LOAMY SAND 30 20 10 0 SUBANGULAR MODERATE MEDIUM MOIST FRIABLE NONSTICKY SLIGHTLY PLASTIC CLEAR <2.5" WAVY NONE NONE GRAVEL COSSLES STONES BOULDERS GRAVEL COSSLES STONES BOULDERS 25-36 Rock Rock NONSTICKY NONPLASTIC NONPLASTIC NONPLASTIC NONPLASTIC NONPLASTIC		1		SILT LOAM	5	0	0	0		WEAK	MEDIUM	MOIST	FRIABLE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	sмоотн		NONE			BAG	6	S-1	
8-26 Brown (16YR 6!4) GRAVELLY LOAMY SAND 30 20 10 0 SUBANGULAR MODERATE MEDIUM GRAVEL COBBLES STONES BOULDERS GRAVEL COBBLES STONES BOULDERS GRAVEL COBBLES STONES BOULDERS Rock Rock Rock MOIST FRIABLE NONSTICKY NONPLASTIC CLEAR <2.5" WAVY NONE NONE NONE NONE NONE NONE NONE NONE NONE	I				GRAVEL	COBBLES	STONES	BOULDERS																	
Gray Weathered 25-36 Rock COLUMEN LOAMY SAND MOIST FRIABLE NONSTICKY NONPLASTIC NONE NONE				LOAMY SAND	30	20	10	0	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY		CLEAR <2.5"	WAVY	NONE	NONE			BAG	16	S-2	PT-106 @ 14" = 24.0 IPH
26-36 Rock CANALLY LOAMY SAND MOIST FRIABLE NONSTICKY NONPLASTIC NONE NONE	I				GRAVEL	COBBLES	STONES	BOULDERS																	
		-	XTREMELY GRAVELLY	LOAMY SAND	50	20	20	10	PLATY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	NONPLASTIC			NONE	NONE			BAG	36	S-3	
	Ī																						-		

Additional Remarks: Soil profile pit SPP-106 encountered refusal at approximately 3.0 feet below the ground surface on apparent weathered rock



Soil Profile Pit: <u>SPP-107</u>
Page <u>1</u> of <u>1</u>

Project:	Proposed Industria	Warehouse	Orange County, New	Vork									2803-99-012E Cornwall Logistics, LI	I C ale Treaten Davide	nment IIC									
Surface Ele		224.0	Date Started:	TOIK			1/14/22		Groundwa				Depth	LC CIO TIEEROP Develo	pillent, ECC	EL.				C1	vater Comme			
Termination		2.5	Date Completed:				11/14/22		Groundwa	ater Data			(ft)			(ft)				Groundw	vater Comme	ents		
Proposed L Excavation		SWM		Logged by Contractor:	:		. Seselgis roperty Managem	ont	Seepage Groundwater				NE NE					-						
/ Test	Visual Observation						obcat E60	ent					NE NE					-						
Method:				Rig Type	:		AUCAI EUU	1	Mottling								1				1			
DEPTH (IN)	COLOR		TEXTURE		COADCE ED	AGMENTS (%)			STRUCTURE		WATER		CONSISTENCY		BOUN	IDARY	ROOTS		MOTTLING		S	AMPLING	•	LAB RESULTS
DEFTH (IIV)	COLOR	JOIL	TEXTORE		COARSETR	AGMENTS (70)		Shape	Grade	Size	CONTENT	Resistance to	Stickiness	Plasticity	Distinctness	Topography	ROOTS	Quantity	Size	Contrast	Туре	Depth	No.	LAB RESULTS
												Rupture										(in)		
				GRAVEL	COBBLES	STONES	BOULDERS																	
0-8	TOPSOIL	VERY	SILT LOAM								MOIST	FRIABLE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	SMOOTH	CMN (20% MEDIUM	NONE			BAG	4	S-1	
0-8	Dark Gray (10YR 4/1)	BOULDERY	SILI LOAM	10	10	10	10	SUBANGULAR	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	SMOOTH	MAX) MEDIUM	NONE			BAG	4	S-1	
	, ,					10		BLOCKY																
				GRAVEL	COBBLES	STONES	BOULDERS																	
	Light Yellowish	EXTREMELY												SLIGHTLY										
8-24	Brown	BOULDERY	SILT LOAM					SUBANGULAR			MOIST	FRIABLE	NONSTICKY	PLASTIC	GRADUAL <5"	WAVY	NONE	NONE			BAG	12	S-2	PT-106 @ 12" = 0.1 IPH
	(10YR 6/4)			20	20	20	20	BLOCKY	MODERATE	MEDIUM														
				GRAVEL	COBBLES	STONES	BOULDERS																	
	C W																							
24-30	Gray Weathered Rock	EXTREMELY STONEY	SILT LOAM								MOIST	FRIABLE	NONSTICKY	NONPLASTIC			NONE	NONE			BAG	30	S-3	
	(10YR 5/1)	STONEY		20	30	30	20	SUBANGULAR BLOCKY	MODERATE	MEDIUM														
				-				1																
								1																
								-													+			
													1				1							
	L	L	07 appauntared r	<u> </u>				L				1	1				1							

Additional Remarks: Soil profile pit SPP-107 encountered refusal on apparent weathered rock at approximately 2.5 feet below the ground surface.



Page <u>1</u> of <u>1</u>

Project:	Proposed Industria	al Warehouse	, Orange County, New	Vt-								Project No.:	2803-99-012E	C -/- Tt D										
Location: Surface Ele		222.0	Orange County, New Date Started:	TOTK			11/14/22		ı			Client:	Cornwall Logistics, LL Depth	C cro Treetop Develop	ment, LLC	El.								
Termination		4.0	Date Completed:				11/14/22		Groundw	rater Data			(ft)			(ft)				Groundy	vater Com	nents		
Proposed L	ocation:	SWM		Logged by	:		. Seselgis		Seepage				NE		1	- (1)								
Excavation				Contractor:			roperty Managem	nent	Groundwater				NE											
/ Test Method:	Visual Observation			Rig Type	:	В	obcat E60		Mottling				NE	·		-	·							
									STRUCTURE		WATER		CONSISTENCY		BOUN	IDARY			MOTTLING	ı		SAMPLIN	G	
DEPTH (IN)	COLOR	SOII	LTEXTURE		COARSE FRA	AGMENTS (%)	Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography	ROOTS	Quantity	Size	Contrast	Туре	Depth (in)	No.	LAB RESULTS
				GRAVEL	COBBLES	STONES	BOULDERS		1	1		Kupture							-			(111)		
0-9	TOPSOIL Dark Gray (10YR 4/1)		SILT LOAM	5	0	0	0	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	SMOOTH	CMN (20% MEDIUM MAX) MEDIUM	NONE			BAG	4	S-1	
				GRAVEL	COBBLES	STONES	BOULDERS																	
9-40	Light Yellowish Brown (10YR 6/4)	VERY BOULDERY	SILT LOAM	10	20	10	20	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	SLIGHTLY PLASTIC	GRADUAL <5"	WAVY	NONE	NONE			BAG	24	S-2	PT-108 @ 24" = 0.25 IPH
				GRAVEL	COBBLES	STONES	BOULDERS																	
40-48	Gray Weathered Rock (10YR 5/1)	EXTREMELY COBBLY	SANDY LOAM	20	30	10	10	SUBANGULAR BLOCKY	WEAK	MEDIUM	MOIST	FRIABLE	NONSTICKY	NONPLASTIC			NONE	NONE			BAG	44	S-3	
								-																
			108 encountered re							,						,								



Page <u>1</u> of <u>1</u>

Project:	Proposed Industrial	I Warehouse											2803-99-012E											
Location: Surface Elev		own of Cornwall, 214.0	Orange County, New Date Started:	York			1/14/22						Cornwall Logistics, LI Depth	C c/o Treetop Develo	opment, LLC	EL.								
Termination		4.5	Date Completed:				1/14/22		Groundwa	ater Data			(ft)			(ft)				Groundy	water Comm	ents		
Proposed Lo		SWM		Logged by			Seselgis		Seepage				NE											
Excavation	Visual Observation			Contractor:	:		operty Managem	ent	Groundwater				NE			-								
Method:	VIDUGI ODDGI VIDIOII			Rig Type):	Bo	bcat E60		Mottling				NE			-								
DEPTH (IN)	COLOR	SOII	TEXTURE		COARSE FRA	AGMENTS (%)			STRUCTURE		WATER		CONSISTENCY		BOUN	IDARY	ROOTS		MOTTLING		s	SAMPLING	•	LAB RESULTS
DEI III (III)	GOLOIK	0012	TEXTORE		OOALOE 110	10.11.21.11.0 (70)		Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography	Roote	Quantity	Size	Contrast	Туре	Depth (in)	No.	EAD NEGOETO
				GRAVEL	COBBLES	STONES	BOULDERS																	
0-9	TOPSOIL Dark Gray (10YR 4/1)		SILT LOAM	5	0	0	0	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	SMOOTH	CMN (20% MEDIUM MAX)	NONE			BAG	5	S-1	
				GRAVEL	COBBLES	STONES	BOULDERS																	
9-22	Light Yellowish Brown (10YR 6/4)	STONEY	SILT LOAM	5	10	10	0	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	SLIGHTLY PLASTIC	GRADUAL <5"	WAVY	NONE	NONE			BAG	16	S-2	PT-109 @ 24" = 0.4 IPH
				GRAVEL	COBBLES	STONES	BOULDERS																	
22-48	Light Yellowish Brown (10YR 6/4)	EXTREMELY GRAVELLY	SANDY LOAM	30	20	20	10	SUBANGULAR BLOCKY	STRONG	MEDIUM	MOIST	FIRM	NONSTICKY	NONPLASTIC	GRADUAL <5"	WAVY	NONE	NONE			BAG	36	S-3	
				GRAVEL	COBBLES	STONES	BOULDERS																	
48-54	Gray Weathered Rock (10YR 5/1)	EXTREMELY GRAVELLY	SANDY LOAM	10	30	30	20	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	NONPLASTIC			NONE	NONE			BAG	50	S-4	
A 1 PC 1		fl '' ODD 4	09 encountered r	1				456-11-1																

Additional Remarks: Soil profile pit SPP-109 encountered refusal on apparent weathered rock at approximately 4.5 feet below the ground surface.



Page <u>1</u> of <u>1</u>

Project:	Proposed Industrial	Warehouse											2803-99-012E											
Location: Surface Elevi		wn of Cornwall, 216.0	Orange County, New Date Started:	York		- 1	1/15/22		1				Cornwall Logistics, LL Depth	.C c/o Treetop Develo	opment, LLC	El.		1						
Termination		4.5	Date Completed:				1/15/22		Groundw	ater Data			(ft)			(ft)				Groundy	ater Comme	nts		
Proposed Lo		SWM		Logged by			Seselgis		Seepage				NE											
Excavation	Visual Observation			Contractor			operty Managem	ent	Groundwater				NE			-								
Method:	VIDUUI ODDCI VUIDII			Rig Type	:	Bo	bcat E60		Mottling				NE											
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	GMENTS (%)			STRUCTURE		WATER		CONSISTENCY		BOUN	IDARY	ROOTS		MOTTLING			AMPLING		LAB RESULTS
(,						(,,,		Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography		Quantity	Size	Contrast	Туре	Depth (in)	No.	
				GRAVEL	COBBLES	STONES	BOULDERS																	
0-8	TOPSOIL Dark Gray (10YR 4/1)		SILT LOAM	5	0	0	0	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	SLIGHTLY PLASTIC	CLEAR <2.5"	SMOOTH	CMN (20% MEDIUM MAX)	NONE			BAG	6	S-1	
				GRAVEL	COBBLES	STONES	BOULDERS																	
8-22	Light Yellowish Brown (10YR 6/4)	STONEY	SILT LOAM	10	10	10	0	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	SLIGHTLY PLASTIC	GRADUAL <5"	WAVY	NONE	NONE			BAG	20	S-2	PT-110 @ 20" = 0.25 IPH
				GRAVEL	COBBLES	STONES	BOULDERS																	
22-48	Light Yellowish Brown (10YR 6/4)	EXTREMELY GRAVELLY	SILT LOAM	30	20	10	10	SUBANGULAR BLOCKY	STRONG	MEDIUM	MOIST	FIRM	NONSTICKY	NONPLASTIC	GRADUAL <5"	WAVY	NONE	NONE			BAG	42	S-3	
				GRAVEL	COBBLES	STONES	BOULDERS																	
48-54	Gray Weathered Rock (10YR 5/1)	EXTREMELY GRAVELLY	SANDY LOAM	30	20	20	20	SUBANGULAR BLOCKY	STRONG	MEDIUM	MOIST	HARD	NONSTICKY	NONPLASTIC			NONE	NONE			BAG	54	S-4	

Additional Remarks: Soil profile pit SPP-110 encountered refusal on weathered rock at approximately 4.5 feet below the ground surface.



Page <u>1</u> of <u>1</u>

Project: E	Proposed Industrial	Warehouse										Project No.:	2803-99-012E										
			Orange County, New	York								Client:		C c/o Treetop Develop	ment, LLC								
Surface Eleva	ition (ft):	214.0	Date Started:				1/16/22		Groundw	ater Data			Depth			El.				Groundwater	Comments		
Termination D		4.2 SWM	Date Completed:	1			1/16/22 Seselgis						(ft) NE			(ft)				- /			
Excavation		SWW		Logged by: Contractor:			operty Managem	nent	Seepage Groundwater				NE NE			-							
/ Test	Visual Observation			Rig Type:			bcat E60		Mottling				NE										
Method:				Kig Type.	•				STRUCTURE				CONSISTENCY		BOU	NDARY			MOTTLING		SAMP	ING	
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	GMENTS (%)		Shape	Grade	Size	WATER CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography	ROOTS	Quantity	Size	Contrast T	pe Dep	h No.	LAB RESULTS
				GRAVEL	COBBLES	STONES	BOULDERS		ļ			Kupture									(111)		
0-8	TOPSOIL Dark Gray (10YR 4/1)		SILT LOAM	5	0	0	0	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	SLIGHTLY PLASTIC	CLEAR <2.5"	SMOOTH	CMN (20% MEDIUM MAX)	NONE		В	AG 4	S-1	
				GRAVEL	COBBLES	STONES	BOULDERS																
8-30	Light Yellowish Brown (10YR 6/4)	STONEY	SILT LOAM	10	10	10	0	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	SLIGHTLY PLASTIC	GRADUAL <5"	WAVY	NONE	NONE		В	AG 24	S-2	PT-111 @ 12" = 0.4 IPI
				GRAVEL	COBBLES	STONES	BOULDERS																
30-40	Light Yellowish Brown (10YR 6/4)	EXTREMELY GRAVELLY	SILT LOAM	30	20	20	10	SUBANGULAR BLOCKY	STRONG	MEDIUM	MOIST	FIRM	NONSTICKY	NONPLASTIC	CLEAR <2.5"	WAVY	NONE	NONE		В	AG 36	S-3	
				GRAVEL	COBBLES	STONES	BOULDERS																
40-50	Light Yellowish Brown (10YR 6/4) Weathered Rock	EXTREMELY COBBLY	SANDY LOAM	30	30	20	20	SUBANGULAR BLOCKY	STRONG	MEDIUM	MOIST	HARD	NONSTICKY	SLIGHTLY PLASTIC			NONE	NONE		В	AG 46	S-4	
								_															
								_															
			11 encountered re																				

Additional Remarks: Soil profile pit SPP-111 encountered refusal on apparent weathered rock at approximately 4.2 feet below the ground surface.



Page <u>1</u> of <u>1</u>

Project:	Proposed Industrial	Warehouse											2803-99-012E											
Location: Surface Elev		wn of Cornwall, 211.0	Orange County, New Date Started:	York		- 1	1/16/22						Cornwall Logistics, LL Depth	.C c/o Treetop Develo	opment, LLC	El.								
Termination		6.0	Date Started: Date Completed:				1/16/22		Groundwa	ater Data			(ft)			(ft)				Groundy	vater Comme	ents		
Proposed Lo		SWM		Logged by	:	G.	Seselgis		Seepage				NE			-								
Excavation	Visual Observation			Contractor:			operty Managem	ent	Groundwater				NE											
Method:	Visual Observation			Rig Type	:	Bo	bcat E60		Mottling				NE											
DEPTH (IN)	COLOR	SOII	TEXTURE		COARSE FRA	GMENTS (%)			STRUCTURE		WATER		CONSISTENCY		BOUN	IDARY	ROOTS		MOTTLING			SAMPLING	•	LAB RESULTS
DEI III (III)	GOLON		- LATORE		OGARGE TRA	O		Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography	NOOTO	Quantity	Size	Contrast	Туре	Depth (in)	No.	LAD NEGOLIO
				GRAVEL	COBBLES	STONES	BOULDERS																	
0-9	TOPSOIL Dark Gray (10YR 4/1)	COBBLY	SILT LOAM	10	10	0	0	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	SLIGHTLY PLASTIC	CLEAR <2.5"	SMOOTH	CMN (20% MEDIUM MAX)	NONE			BAG	5	S-1	
				GRAVEL	COBBLES	STONES	BOULDERS																	
9-36	Light Yellowish Brown (10YR 6/4)	EXTREMELY GRAVELLY	SILT LOAM	20	20	20	20	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	SLIGHTLY PLASTIC	GRADUAL <5"	WAVY	NONE	NONE			BAG	30	S-2	PT-112 @ 30" = 0.25 IPH
				GRAVEL	COBBLES	STONES	BOULDERS																	
36-60	Light Yellowish Brown (10YR 6/4)	EXTREMELY COBBLY	SILT LOAM	30	30	20	10	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FIRM	NONSTICKY	NONPLASTIC	GRADUAL <5"	WAVY	NONE	NONE			BAG	40	S-3	
				GRAVEL	COBBLES	STONES	BOULDERS																	
60-72	Yellow Brown (10YR 5/4) Weathered Rock	EXTREMELY STONEY	SANDY LOAM	20	30	30	20	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	HARD	NONSTICKY	NONPLASTIC			NONE	NONE			BAG	72	S-4	

Additional Remarks: Soil profile pit SPP-112 encountered refusal in weathered rock at approximately 6.0 feet below the ground surface.



Page <u>1</u> of <u>1</u>

Project: D	roposed Industrial	Warehouse										Project No.:	2803-99-012E									-	
			Orange County, New	York								Client:		C c/o Treetop Develop	ment, LLC								
Surface Eleva	tion (ft):	208.0	Date Started:				1/16/22		Groundy	ater Data			Depth			El.				Groundwater	Comments		
Termination D Proposed Loc		7.0 SWM	Date Completed:				1/16/22 Seselgis						(ft) NE			(ft)							
Excavation		SWM		Logged by Contractor:			operty Managem	nent	Seepage Groundwater				NE NE			-							
/ Test	Visual Observation			Rig Type			bcat E60		Mottling				NE										
Method:				Kig Type	•				STRUCTURE				CONSISTENCY		BOU	NDARY			MOTTLING		SAMP	LING	T
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	GMENTS (%)		Shape	Grade	Size	WATER CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography	ROOTS	Quantity	Size	Contrast T	pe Dep	th No.	LAB RESULTS
				GRAVEL	COBBLES	STONES	BOULDERS		1			Kupture									(+	1
0-10	TOPSOIL Dark Gray (10YR 4/1)		SILT LOAM	5	0	0	0	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	SLIGHTLY PLASTIC	CLEAR <2.5"	SMOOTH	CMN (20% MEDIUM MAX) MEDIUM	NONE		E	NG 3	S-1	
				GRAVEL	COBBLES	STONES	BOULDERS																
10-36	Light Yellowish Brown (10YR 6/4)	GRAVELLY	SANDY CLAY LOAM	10	10	10	10	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC	GRADUAL <5"	WAVY	NONE	NONE		E	AG 20	S-2	PT-113 @ 32" = 0.0 IPI
				GRAVEL	COBBLES	STONES	BOULDERS																
36-78	Light Yellowish Brown (10YR 6/4)	VERY COBBLY	SILT LOAM	20	30	20	20	SUBANGULAR BLOCKY	STRONG	MEDIUM	MOIST	FIRM	NONSTICKY	NONPLASTIC	CLEAR <2.5"	WAVY	NONE	NONE		E	AG 38	S-3	
				GRAVEL	COBBLES	STONES	BOULDERS																
78-84	Yellow Brown (10YR 5/4) Weathered Rock	EXTREMELY COBBLY	SILT LOAM	20	30	30	20	SUBANGULAR BLOCKY	STRONG	MEDIUM	MOIST	HARD	NONSTICKY	NONPLASTIC			NONE	NONE		E	AG 78	S-4	
								_															
								_															
			13 encountered re																				

Additional Remarks: Soil profile pit SPP-113 encountered refusal on apparent weathered rock at approximately 7.0 feet below the ground surface.



Page <u>1</u> of <u>1</u>

Project:	Proposed Industrial	I Warehouse											2803-99-012E											
Location: Surface Elev		own of Cornwall, 206.0	Orange County, New Date Started:	/ York		- 1	1/16/22						Cornwall Logistics, LL Depth	LC c/o Treetop Develo	opment, LLC	EL.								
Termination		7.0	Date Completed:				1/16/22		Groundwa	ater Data			(ft)			(ft)				Groundy	vater Comm	ents		
Proposed Lo		SWM		Logged by			Seselgis		Scepage				NE			-								
Excavation / Test	Visual Observation			Contractor			operty Managem	ent	Groundwater				NE			-								
Method:		,		Rig Type):	Вс	bcat E60	,	Mottling				NE			-	,				1			
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	GMENTS (%)			STRUCTURE		WATER		CONSISTENCY		BOUN	IDARY	ROOTS		MOTTLING		8	SAMPLING	•	LAB RESULTS
. ,								Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography		Quantity	Size	Contrast	Туре	Depth (in)	No.	
				GRAVEL	COBBLES	STONES	BOULDERS																	
0-12	TOPSOIL Dark Gray (10YR 4/1)		SILT LOAM	10	0	0	0	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	SLIGHTLY PLASTIC	CLEAR <2.5"	SMOOTH	CMN (20% MEDIUM MAX)	NONE			BAG	6	S-1	
				GRAVEL	COBBLES	STONES	BOULDERS																	
12-26	Yellowish Brown (10YR 5/6)	VERY COBBLY	SILT LOAM	15	20	10	10	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	SLIGHTLY PLASTIC	GRADUAL <5"	WAVY	NONE	NONE			BAG	20	S-2	PT-114 @ 21" = 0.1 IPH
				GRAVEL	COBBLES	STONES	BOULDERS																	
26-78	Light Yellowish Brown (10YR 6/4)	VERY COBBLY	SILT LOAM	20	30	20	20	SUBANGULAR BLOCKY	STRONG	MEDIUM	MOIST	VERY FIRM	NONSTICKY	NONPLASTIC	GRADUAL <5"	WAVY	NONE	NONE			BAG	48	S-3	
				GRAVEL	COBBLES	STONES	BOULDERS																	
78-84	Light Yellowish Brown (10YR 6/4) (Weathered Rock)	EXTREMELY COBBLY	SANDY LOAM	30	30	30	10	SUBANGULAR BLOCKY	STRONG	COARSE	MOIST	HARD	NONSTICKY	NONPLASTIC			NONE	NONE			BAG	78	S-4	
			14 encountered r																					

Additional Remarks: Soil profile pit SPP-114 encountered refusal on apparent weathered rock at approximately 7.0 feet below the ground surface.



Page <u>1</u> of <u>1</u>

Droject:	Proposed Industria	I Warehouse										Project No.:	2803-99-012E											
Location:	US Highway 9W, To	own of Cornwall,	Orange County, New	York								Client:	Cornwall Logistics, L	LC c/o Treetop Develo	opment, LLC									
Surface Ele	evation (ft):	206.0	Date Started:				1/17/22		Groundwa	ater Data			Depth			EL				Grounds	water Comm	umte		
Termination		11.0	Date Completed:				1/17/22			nter Data			(ft)			(ft)				Ground	mater Commi	· · · · ·		
Proposed L Excavation		SWM		Logged by			Seselgis		Seepage Groundwater				NE NE											
/ Test	Visual Observation			Contractor			roperty Managem	ieni					NE NE					-						
Method:	1			Rig Type	E.	В	obcat E60		Mottling			1	NE			-	1							
									STRUCTURE		WATER		CONSISTENCY		BOUN	DARY			MOTTLING		s	SAMPLING	3	
DEPTH (IN)) COLOR	SOIL	TEXTURE		COARSE FRA	AGMENTS (%)			T I		CONTENT	Resistance to					ROOTS		ı		 	Depth		LAB RESULTS
								Shape	Grade	Size		Rupture	Stickiness	Plasticity	Distinctness	Topography		Quantity	Size	Contrast	Type	(in)	No.	
				GRAVEL	COBBLES	STONES	BOULDERS																	
0-12	TOPSOIL Dark Gray	VERY	SILT LOAM								MOIST	FRIABLE	NONSTICKY	SLIGHTLY	CLEAR <2.5"	WAVY	CMN (20% MEDIUM	NONE			BAG	6	S-1	
0.12	(10YR 4/1)	BOULDERY	OIL! LOPUII	10	0	0	0	SUBANGULAR	WEAK	MEDIUM		THADEE	NO.TOTION	PLASTIC	OLLAN -2.0	••••	MAX) MEDIUM	HOILE				٠	0-1	
					-	-	-	BLOCKY																
				GRAVEL	COBBLES	STONES	BOULDERS											1						
								4																
12-32	Yellowish Brown	VERY	SANDY LOAM								MOIST	FRIABLE	NONSTICKY	SLIGHTLY	GRADUAL <5"	WAVY	NONE	NONE			BAG	24	S-2	PT-115 @ 18" = 2.75
12-02	(10YR 5/6)	GRAVELLY	OATE: LOAM	15	20	10	10	SUBANGULAR	MODERATE	MEDIUM	moio:	THABLE	NO.TOTION	PLASTIC	OIONDONE 10	••••	HONE	HOILE			JAG		0.2	IPH
								BLOCKY																
				GRAVEL	COBBLES	STONES	BOULDERS																	
	Liebs Wellendeb							-																
32-48	Light Yellowish Brown	EXTREMELY	SILT LOAM								MOIST	VERY FIRM	NONSTICKY	NONPLASTIC	GRADUAL <5"	SMOOTH	NONE	NONE			BAG	36	S-3	
	(10YR 6/4)	GRAVELLY		20	30	20	20	SUBANGULAR BLOCKY	STRONG	MEDIUM														
								BLUCKT																
				GRAVEL	COBBLES	STONES	BOULDERS		STRUCTU	IRELESS														
	Light Yellowish							-																
48-132	Brown	EXTREMELY	LOAMY SAND								MOIST	LOOSE	NONSTICKY	NONPLASTIC			NONE	NONE			BAG	72	S-4	
	(10YR 6/4) (Weathered Rock)	COBBLY		30	30	30	10	SINGLE GRAIN																
	(
-																								
								1										1						
																		1						
								1										1						
								1										1						
								1																
																		1						
																		1						
								4										1						
																		1						
																		1						
1																		1						
Additional	Remarks: Soil pr	ofile Pit SPP-1	15 was terminate	d at approxim	nately 11.0 fee	et below the	ground surfa	ice.																



Soil Profile Pit: <u>SPP-116</u>
Page <u>1</u> of <u>1</u>

Project:	Proposed Industria	al Warehouse	Orange County, New	Vork									2803-99-012E	LC c/o Treetop Develop	2803-99-012E										
Surface Ele		197.0	Date Started:	TORK			1/17/22						Depth	LC C/O Treetop Develop	oment, LLC	EL									
Termination		11.0	Date Completed:				1/17/22		Groundw	sater Data			(ft)			(ft)					Grounds	vater Com	ments		
Proposed L	ocation:	SWM	•	Logged by			. Seselgis		Seepage				NE			-									
Excavation	Visual Observation			Contractor:	:		roperty Managem	nent	Groundwater				NE						Reddish brown m	ottling (2.5yr 5/4)	102" - 132"				
Method:	Visual Observation			Rig Type	e.	В	obcat E60		Mottling				8.5			188.5									
			•						STRUCTURE				CONSISTENCY		BOUL	NDARY				MOTTLING			SAMPLIN	IG	
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	AGMENTS (%)				1	WATER	Resistance to	1	1		1	R001	rs			1	+	Depth	1	LAB RESULTS
								Shape	Grade	Size	CONTENT	Rupture	Stickiness	Plasticity	Distinctness	Topography			Quantity	Size	Contrast	Type	(in)	No.	
				GRAVEL	CORRIES	STONES	BOULDERS													•					
				GICAVEE	CODDLES	STONES	BOOLDERS																		
	TOPSOIL												Henemann	SLIGHTLY			CMN (20%					BAG			
0-10	Dark Gray (10YR 4/1)		SILT LOAM				0	SUBANGULAR	WEAK	MEDIUM	MOIST	FRIABLE	NONSTICKY	PLASTIC	CLEAR <2.5"	SMOOTH	MAX)	MEDIUM	NONE			BAG	4	S-1	
	(101K 4/1)			10	10	0	U	BLOCKY	WEAR	MEDIUM															
				GRAVEL	CORRIES	STONES	BOULDERS		STRUCTI	URELESS															
		1		GIVAVEL	CODDLES	STONES	BOOLDERS	1	SIRUCII	UNELESS															
10-102	Weak Red	EXTREMELY	LOAMY SAND								MOIST	LOOSE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	SMOOTH	NONE		NONE			BAG	36	S-2	PT-116 @ 51" = 24.0
10-102	(10R 5/4)	COBBLY	LOAMY SAND	30	40	10	10	SINGLE GRAIN			MOIST	LOOSE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	SMOOTH	NONE		NONE			BAG	36	8-2	IPH
				30	40	10	10	SINGLE GIOGIA																	
				GRAVEL	CORRIES	STONES	BOULDERS																		
				GICAVEE	CODDLES	STONES	BOOLDERS																		
	Light Yellowish	EXTREMELY											Henemann							MEDIUM					
102-132	Brown (10YR 6/4)	COBBLY	LOAM					SUBANGULAR	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	NONPLASTIC			NONE		CMN 2%-20%	5MM-15MM	FAINT	BAG	108	S-3	
	(101104)			20	30	20	20	BLOCKY	MODERATE	MEDIUM															
		1						4																	
1		1																				1	l	1	
1		1																				1	l	1	
1		1																				1	l	1	
1		1																				1	l	1	
1		1		<u> </u>				4														1	l	1	
1		1																				1	l	1	
1		1																				1	l	1	
1		1																				1	l	1	
1		1																				1	l	1	
1		1						4														1	l	1	
1		1																				1	l	1	
1		1		1											1							1	l	1	
1		1																				1	l	1	
1		1																				1	l	1	
Additional	Remarks: Soil P	rofile Pit SPP-	116 was terminate	d at approxim	nately 11.0 fe	et below the	around surfa	ace.			•	•	•	•	•		•		•						



Soil Profile Pit: <u>SPP-117</u>
Page <u>1</u> of <u>1</u>

Project:	Proposed Industria	al Warehouse										Project No.:	2803-99-012E		2803-99-012E									
Location:	US Highway 9W, To	own of Cornwall	I, Orange County, New	v York									Cornwall Logistics, LL	LC c/o Treetop Develop										
Surface Ele		193.0	Date Started:				1/17/22		Groundw	sater Data			Depth			EL				Groundw	ater Comm	nents		
Termination Proposed L		12.0 SWM	Date Completed:	Logged by	,		Seselgis		Seepage				(ft) NE			(ft)								
Excavation	1			Contractor			roperty Managem	nent	Groundwater				NE					Reddish brown r	nottling (2.5YR 5/4	1) 108" - 144"				
/ Test Method:	Visual Observation			Rig Type	:	Bo	obcat E60		Mottling				9.0			184.0								
									STRUCTURE		WATER		CONSISTENCY		BOUN	IDARY			MOTTLING			SAMPLING	G	
DEPTH (IN)) COLOR	SOIL	L TEXTURE		COARSE FRA	AGMENTS (%)		Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography	ROOTS	Quantity	Size	Contrast	Туре	Depth (in)	No.	LAB RESULTS
				GRAVEL	COBBLES	STONES	BOULDERS		I			,												
0-9	TOPSOIL Dark Gray (10YR 4/1)		SILT LOAM	5	5	0	0	SUBANGULAR BLOCKY	WEAK	MEDIUM	MOIST	FRIABLE	SLIGHTLY STICKY	SLIGHTLY PLASTIC	CLEAR <2.5"	ѕмоотн	CMN (20% MEDIUM MAX)	NONE			BAG	4	S-1	
				GRAVEL	COBBLES	STONES	BOULDERS																	
9-28	Yellowish Brown (10YR 5/4)	EXTREMELY COBBLY	SILT LOAM	20	30	10	10	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	LOOSE	SLIGHTLY STICKY	SLIGHTLY PLASTIC	GRADUAL <5"	WAVY	NONE	NONE			BAG	20	S-2	PT-117 @ 47" = 24.0 IPH
				GRAVEL	COBBLES	STONES	BOULDERS		STRUCTU	URELESS														
28-108	Yellowish Brown (10YR 5/4)	EXTREMELY COBBLY	LOAMY SAND	30	40	10	10	SINGLE GRAIN			MOIST	LOOSE	NONSTICKY	NONPLASTIC	GRADUAL <5"	SMOOTH	NONE	NONE			BAG	48	S-3	
				GRAVEL	COBBLES	STONES	BOULDERS																	
108-144	Light Yellowish Brown (10YR 6/4)	EXTREMELY BOULDERY	SILT LOAM	20	20	20	20	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	NONPLASTIC			NONE	CMN (20% MA)	MEDIUM 5MM-15MM	FAINT	BAG	120	S-4	
	+																						+	
			-																					
Additional	Pamarke: Soil no	rofile nit SPP.	117 was terminated	d at annroxim	ately 12 0 fee	at helow the	around curfa	ce			1	-1	1				1							

Additional Remarks: Soil profile pit SPP-117 was terminated at approximately 12.0 feet below the ground surface.



Soil Profile Pit: SPP-118
Page 1 of 1

Project No.: 2803-99-012E Project: Proposed Industrial Warehouse Location: US Highway 9W, Town of Cornwall, Orange County, New York
Surface Elevation (ft): 187.0 Date Started: Cornwall Logistics, LLC c/o Treetop Development, LLC
Depth 11/18/22 **Groundwater Comments** Date Completed: Termination Depth (ft): 8.5 11/18/22 Proposed Location: Excavation / Test Visual C G. Seselgis Neighbors Property Management Logged by: Seepage Groundwater NE Bobcat E60 NE Rig Type: Method: CONSISTENCY MOTTLING SAMPLING STRUCTURE BOUNDARY DEPTH (IN) COLOR SOIL TEXTURE COARSE FRAGMENTS (%) ROOTS LAB RESULTS CONTENT Type Depth (in) Grade Size Stickiness Plasticity Topography Quantity Size Contrast Rupture GRAVEL COBBLES STONES BOULDERS TOPSOIL Dark Gray (10YR 4/1) SLIGHTLY PLASTIC 0-12 STONEY SILT LOAM MOIST FRIABLE NONSTICKY CLEAR <2.5" SMOOTH MEDIUM NONE BAG 4 S-1 SUBANGULAR BLOCKY WEAK MEDIUM 5 5 5 GRAVEL COBBLES STONES BOULDERS Yellowish Brown GRAVELLY SANDY LOAM FRIABLE NONSTICKY NONPLASTIC GRADUAL <5" NONE BAG 24 S-2 12-38 MOIST SMOOTH NONE (10YR 5/4) SUBANGULAR MODERATE MEDIUM GRAVEL COBBLES STONES BOULDERS S-3 PT-118 @ 41" = 24.0 Yellowish Brown (10YR 5/4) LOAMY SAND MOIST FRIABLE NONSTICKY NONPLASTIC CLEAR <2.5" NONE NONE BAG 48 38-66 GRAVELLY SUBANGULAR WEAK MEDIUM BLOCKY GRAVEL COBBLES STONES BOULDERS STRUCTURELESS EXTREMELY GRAVELLY Grayish Brown (10YR 5/2) 66-84 LOAMY SAND LOOSE NONSTICKY NONPLASTIC GRADUAL <5" NONE NONE BAG 72 S-4 SINGLE GRAIN 10 0 GRAVEL COBBLES STONES BOULDERS Light Yellowish EXTREMELY Brown (10YR 6/4) 90 S-5 84-96 SILT LOAM MOIST FIRM NONSTICKY NONPLASTIC CLEAR <2.5" SMOOTH NONE NONE BAG COBBLY SUBANGULAR BLOCKY MEDIUM GRAVEL CORRLES STONES BOULDERS Gray Weathered EXTREMELY COBBLY BAG 102 S-6 96-102 LOAMY SAND MOIST HARD NONSTICKY NONPLASTIC NONE NONE Rock (10YR 5/1) SUBANGULAR 10 STRONG MEDIUM

Additional Remarks: Soil profile pit SPP-118 encountered refusal on apparent weathered rock at approximately 8.5 feet below the ground surface.



Soil Profile Pit: <u>SPP-119</u>
Page <u>1</u> of <u>1</u>

Project:	Proposed Industria	I Warehouse										Project No.:	2803-99-012E											
Location:	US Highway 9W, To	own of Cornwall,	Orange County, New	York								Client:		C c/o Treetop Develop	ment, LLC									
Surface Elevi			Date Started:				1/18/22		Groundwa	ater Data			Depth			EL				Groundwa	ater Comm	nents		
Termination		4.5 SWM	Date Completed:				1/18/22 Seselgis						(ft) NE			(ft)								
Proposed Loc Excavation	cation:	SWM		Logged by Contractor			operty Manager	nent	Seepage Groundwater				NE NE											
/ Test Method:	Visual Observation			Rig Type			bcat E60		Mottling				NE											
metriou.									STRUCTURE				CONSISTENCY		BOU	NDARY			MOTTLING			SAMPLING		
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	AGMENTS (%)		Shape	Grade	Size	WATER CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography	ROOTS	Quantit	y Size	Contrast	Туре	Depth (in)	No.	LAB RESULTS
				GRAVEL	COBBLES	STONES	BOULDERS	1														()		
0-10	TOPSOIL Dark Gray (10YR 4/1)	VERY COBBLY	SILT LOAM	20	30	10	0	SUBANGULAR BLOCKY	WEAK	MEDIUM	MOIST	FRIABLE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	SMOOTH	CMN (20% MEDI MAX) MEDI	JM NONE			BAG	6	S-1	
				GRAVEL	COBBLES	STONES	BOULDERS																	
10-54	Light Yellowish Brown (10YR 6/4)	EXTREMELY BOULDERY	SILT LOAM	10	20	20	40	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FIRM	NONSTICKY	NONPLASTIC			NONE	NONE			BAG	36	S-2	



Soil Profile Pit: <u>SPP-120</u>
Page <u>1</u> of <u>1</u>

S 10 10 0 SUBANGULAR WEAK MEDIUM 5 10 10 0 SUBANGULAR WEAK MEDIUM 5 10 10 0 SUBANGULAR WEAK MEDIUM 9-48 Yellowish Brown (10YR 544) 5 10 10 0 SUBANGULAR WEAK MEDIUM MOIST FRIABLE NONSTICKY NONPLASTIC GRADUAL <5" SMOOTH N GRAVEL COBBLES STONES BOULDERS STRUCTURELESS STRUCTURELESS STRUCTURELESS STRUCTURELESS GRAVEL COBBLES STONES BOULDERS STRUCTURELESS STRUCTURELESS STRUCTURELESS STRUCTURELESS STRUCTURELESS MOIST LOOSE NONSTICKY NONPLASTIC CLEAR <2.5" SMOOTH N STONEY STONEY LOAMY SAND GRAVEL COBBLES STONES BOULDERS STRUCTURELESS STRUCTURELESS STRUCTURELESS MOIST LOOSE NONSTICKY NONPLASTIC CLEAR <2.5" SMOOTH N STRUCTURELESS STRUCTURELESS STRUCTURELESS STRUCTURELESS MOIST LOOSE NONSTICKY NONPLASTIC NONPLASTIC NONPLASTIC NONPLASTIC N	
Surface Sewation (R):	_
Termination Depth (R): Proposed Location: SVM Proposed Loged by: C. Seetleys Segue NE SVM Contractor: Neighbor Proposed Loged by: NE SVM Contractor: Neighbor Proposed Loged by: NE SVM Neighbor Proposed Loged by: NE SVM Neighbor Proposed Loged by: NE SVM Neighbor Proposed Loged by: NE SVM Neighbor Proposed Loged by: NE SVM Neighbor Proposed Loged by: NE SVM Neighbor Proposed Loged by: NE SVM Neighbor Proposed Loged by: NE SVM Neighbor Proposed Loged by: NE SVM Neighbor Proposed Loged by: NE SVM Neighbor Proposed Loged by: NE SVM Neighbor Proposed Loged by: NE SVM Neighbor Proposed Loged by: NE SVM Neighbor Proposed Loged by: NE SVM Neighbor Proposed Loged by: NE SVM Neighbor Proposed Loged by: NE SVM Neighbor Proposed Loged by: NE SVM Neighbor Proposed Loged by: NE SVM Neighbor Proposed Loged by: Neighbor Proposed Log	
Depth (N) Color Soil Texture Contractor: Neighbors Proposely Management Neighbors Propo	
Tight Tigh	
Method: DEPTH (N) COLOR SOIL TEXTURE COARSE FRAGMENTS (%) GRAVEL COBBLES STONES BOULDERS GRAVEL COBBLES STONES BOULDERS GRAVEL COBBLES STONES BOULDERS SUBANGULAR BLOCKY WEAK MEDIUM MOIST FRIABLE NONSTICKY NONPLASTIC GRADUAL <\$** SMOOTH N GRADUAL <** SMOOTH N CMM M MOIST FRIABLE NONSTICKY NONPLASTIC GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N MOIST FRIABLE NONSTICKY NONPLASTIC GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL <** SMOOTH N GRADUAL COBBLES STONES BOULDERS STRUCTURELESS GRADUAL COBBLES STONES STRUCTURELESS STRUCTURELESS MOIST LOOSE NONSTICKY NONPLASTIC N N	
COLOR SOIL TEXTURE COARSE FRAGMENTS (%) COARSE FRAGMENT (%) COARSE FRAGMENT (%) COARSE FRAGMENT (%) COARSE FRAGMENT (%) COARSE FRAGMENT (%) COARSE FRAGMENT (%) COARSE FRAGMENT (%) COARSE FRAGMENT (%) COARSE FRAGMENT (%) COARSE FRAGMENT (%) COARSE FRAGMENT (%) COARSE FRAGMENT (%) COARSE FRAGMENT (%) COARSE FRAGMENT (%) COARSE FRAGMENT (%) COARSE FRAGMENT (%) COARSE FRAGMENT (%) COARSE FRAGMENT (%) COARSE FRAGMENT (%)	
Shape Grade Size Content Rupture GRAVEL COBBLES STONES BOULDERS TOPSOIL Durk Gray (19'R 41') STONEY SILT LOAM GRAVEL COBBLES STONES BOULDERS GRAVEL COBBLES STONES BOULDERS GRAVEL COBBLES STONES BOULDERS GRAVEL COBBLES STONES BOULDERS GRAVEL COBBLES STONES BOULDERS GRAVEL COBBLES STONES BOULDERS GRAVEL COBBLES STONES BOULDERS GRAVEL COBBLES STONES BOULDERS GRAVEL COBBLES STONES BOULDERS GRAVEL COBBLES STONES BOULDERS GRAVEL COBBLES STONES BOULDERS GRAVEL COBBLES STONES BOULDERS GRAVEL COBBLES STONES BOULDERS GRAVEL COBBLES STONES BOULDERS GRAVEL COBBLES STONES BOULDERS GRAVEL COBBLES STONES BOULDERS GRAVEL COBBLES STONES BOULDERS GRAVEL COBBLES STONES BOULDERS GRAVEL COBBLES STONES BOULDERS STRUCTURELESS GRAVEL COBBLES STONES BOULDER	MOTTLING SAMPLING
TOPSOIL DIRK Gray (10YR 4/1) 9-48 Yellowish Brown (10YR 5/4) EXTREMELY STONEY GRAVEL COBBLES STONES BOULDERS GRAVEL COBBLES STONES BOULDERS GRAVEL COBBLES STONES BOULDERS SUBANGULAR BLOCKY WEAK MEDIUM MOIST FRIABLE NONSTICKY NONPLASTIC CLEAR <2.5" SMOOTH CM M MOIST FRIABLE NONSTICKY NONPLASTIC GRADUAL <5" SMOOTH N STONEY STONEY GRAVEL COBBLES STONES BOULDERS SUBANGULAR WEAK MEDIUM MOIST FRIABLE NONSTICKY NONPLASTIC GRADUAL <5" SMOOTH N STRUCTURELESS TRUCTURELESS GRAVEL COBBLES STONES BOULDERS STRUCTURELESS GRAVEL COBBLES STONES BOULDERS STRUCTURELESS GRAVEL COBBLES STONES BOULDERS STRUCTURELESS GRAVEL COBBLES STONES BOULDERS STRUCTURELESS STRUCTURELESS MOIST LOOSE NONSTICKY NONPLASTIC CLEAR <2.5" SMOOTH N STRUCTURELESS GRAVEL COBBLES STONES BOULDERS STRUCTURELESS STRUCTURELESS MOIST LOOSE NONSTICKY NONPLASTIC NONPLA	ROOTS Quantity Size Contrast Type Depth (in) No.
0-9 Dark Gray (16VR 4I1) STONEY SILT LOAM 5 10 10 0 SUBANGULAR WEAK MEDIUM MOIST FRABLE NONSTICKY NONPLASTIC CLEAR <2.5" SMOOTH MIN MOIST FRABLE NONSTICKY NONPLASTIC CLEAR <2.5" SMOOTH MIN MOIST FRABLE NONSTICKY NONPLASTIC CLEAR <2.5" SMOOTH MIN MOIST FRABLE NONSTICKY NONPLASTIC CLEAR <2.5" SMOOTH NO. 10 NO.	
Yellowish Brown (10VR 54) Yellowish Brown (10VR 54) STONEY SANDY LOAM 10 30 30 20 SUBANGULAR WEAK MEDIUM MOIST FRIABLE NONSTICKY NONPLASTIC GRADUAL <s <2.5"="" boulders="" clear="" cobbles="" gravel="" loose="" moist="" moist<="" n="" nonplastic="" nonsticky="" rectremely="" smooth="" stones="" stoney="" structureless="" td=""><td>CMN (20% MEDIUM NONE BAG 6 S-1</td></s>	CMN (20% MEDIUM NONE BAG 6 S-1
9-46 (10YR 5/4) STONEY SANUTUON 10 30 30 20 SUBANGULAR WEAK MEDIUM 10 30 30 20 SUBANGULAR WEAK MEDIUM 10 30 30 30 20 SUBANGULAR WEAK MEDIUM 10 30 30 30 10 SINGLE STRUCTURELESS MOST LOOSE NONSTICKY NONPLASTIC CLEAR <2.5" SMOOTH N STONEY STONEY COMPLETED STRUCTURELESS STONES BOULDERS STRUCTURELESS STONES SOULDERS STRUCTURELESS STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTURE STRUCTU	
48-96 Vallowish Brown (19YR 54) EXTREMELY STONEY LOAMY SAND 10 30 30 10 SINGLE GRAIN MOIST LOOSE NONSTICKY NONPLASTIC CLEAR <2.5" SMOOTH N Gray Weathered Rock STRUCTURELESS Gray Weathered Rock STRUCTURELESS MOIST LOOSE NONSTICKY NONPLASTIC CLEAR <2.5" SMOOTH N MOIST LOOSE NONSTICKY NONPLASTIC CLEAR <2.5" SMOOTH N MOIST LOOSE NONSTICKY NONPLASTIC N MOIST LOOSE NONSTICKY NONPLASTIC N	NONE NONE BAG 24 S-2
49-99 (10VR 5/4) STONEY LOWIN SAND 10 30 30 10 SINGLE GRAIN MUST LOSE WORSTICKT WORPLASTIC CLEAR CLS SMOUTH WORPLASTIC CLS SMOUTH WORPLASTIC CLEAR CLS SMOUTH WORPLASTIC CLEAR CLS SMOUTH WORPLASTIC CLEAR CLS SMOUTH WORPLASTIC CLEAR CLS SMOUTH WORPLASTIC CLEAR CLS SMOUTH WORPLASTIC CLEAR CLS SMOUTH WORPLASTIC CLEAR CLS SMOUTH WORPLASTIC CLEAR CLS SMOUTH WORPLASTIC CLEAR CLS SMOUTH WORPLASTIC CLEAR CLS SMOUTH WORPLASTIC CLEAR CLS SMOUTH WORPLASTIC CLEAR CLS SMOUTH WORPLASTIC CLEAR CLS SMOUTH WORPLASTIC C	
Gray Weathered Se-102 Rock EXTREMELY COANY SAND MOIST LOOSE NONSTICKY NONPLASTIC N	NONE NONE BAG 72 S-3
96-102 Rock ARCHITECTUREY LOAMY SAND MOIST LOOSE NONSTICKY NONPLASTIC N	
(10YR S/1) 31 ONL: 10 30 30 20 SINGLE GRAIN	NONE NONE BAG 102 S-4
Addition Sensets believes and and death by a contract of sensets Scientific and an advantage of sensets and advantage of	

Additional Remarks: Infiltration test not performed due to high percentage of coarse fragments. Soil profile pit SPP-120 encountered refusal at approximately 8.5 feet below the ground surface on apaprent rock.



Soil Profile Pit: <u>SPP-121</u>
Page <u>1</u> of <u>1</u>

Project:	Proposed Industr	trial Wareh	ouse										Project No.:	2803-99-012E											
Location:	US Highway 9W,	, Town of	Cornwall, (Orange County, New	/ York								Client:	Cornwall Logistics, Ll	C c/o Treetop Develop	oment, LLC									
Surface Ele			42.0	Date Started:				11/18/22		Groundw	ater Data			Depth			EL				Grounds	vater Comn	nents		
Proposed L	n Depth (ft): ocation:	:	8.0 SWM	Date Completed:	Logged by			. Seselgis		Seepage				(ft) NE			(ft)								
Excavation	1				Contractor			roperty Managem	ent	Groundwater				NE					Reddish brown (2.5YR 5/4) mottli	ng 60" - 96"				
/ rest Method:	Visual Observation	on			Rig Type	:	В	obcat E60		Mottling				5.0			137.0								
									,	STRUCTURE		WATER		CONSISTENCY		BOU	NDARY			MOTTLING			SAMPLIN	G	
DEPTH (IN)) COLOR		SOIL	TEXTURE		COARSE FRA	AGMENIS (%		Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography	ROOTS	Quantity	Size	Contrast	Туре	Depth (in)	No.	LAB RESULTS
					GRAVEL	COBBLES	STONES	BOULDERS																	
0-9	TOPSOIL Dark Gray (10YR 4/1)			SILT LOAM	10	0	0	0	SUBANGULAR BLOCKY	WEAK	MEDIUM	MOIST	FRIABLE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	SMOOTH	CMN (20% MEDIU MAX) MEDIU	M NONE			BAG	5	S-1	
					GRAVEL	COBBLES	STONES	BOULDERS																	
9-60	Yellowish Brown (10YR 5/4)	rn GR	AVELLY	SANDY CLAY LOAM	20	10	0	0	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	SLIGHTLY STICKY	SLIGHTLY PLASTIC	CLEAR <2.5"	SMOOTH	NONE	NONE			BAG	40	S-2	PT-121 @ 48" = 0.25 IPH
					GRAVEL	COBBLES	STONES	BOULDERS																	
60-96	Light Yellowish Brown (10YR 6/4)		ERY AVELLY	SANDY LOAM	25	10	10	20	SUBANGULAR BLOCKY	STRONG	MEDIUM	MOIST	FIRM	NONSTICKY	NONPLASTIC			NONE	CMN (20% MA	X) MEDIUM 5MM-15MM	FAINT	BAG	72	S-3	

Additional Remarks: Soil profile pit SPP-121 encountered refusal at approximately 8.0 feet below the ground surface on apparent boulders.



Soil Profile Pit: <u>SPP-122</u>
Page <u>1</u> of <u>1</u>

Project:	Proposed Industrial	I Warehouse										Project No.:	2803-99-012E											
Location:	US Highway 9W, To	own of Cornwall,	Orange County, New	York								Client:		LC c/o Treetop Develop	ment, LLC									-
Surface Elev	ation (ft):	140.0	Date Started:				1/22/22		Groundw	ater Data			Depth			EL				Groundy	vater Comr	nents		
Termination		7.0 SWM	Date Completed:				1/22/22 Seselgis						(ft) NE			(ft)								
Proposed Lo Excavation		SWW		Logged by Contractor:			operty Managem	ent	Seepage Groundwater				NE NE					Roddish hown m	nottling (2.5YR 5/4	140" 70"				
	Visual Observation			Rig Type			bcat E60		Mottling				3.3			136.7		Reduisii biowii ii	lottiling (2.5 FTC 5/4	140 - 10				
Method:			Į.	Kig Type					STRUCTURE		WATER		CONSISTENCY		BOU	NDARY			MOTTLING			SAMPLING	3	
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	AGMENTS (%)		Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography	ROOTS	Quantity	Size	Contrast	Туре	Depth (in)	No.	LAB RESULTS
				GRAVEL	COBBLES	STONES	BOULDERS					Kupture							1	ļ		(111)	\Box	
0-10	TOPSOIL Dark Gray (10YR 4/1)		SILT LOAM	5	5	0	0	SUBANGULAR BLOCKY	WEAK	MEDIUM	MOIST	FRIABLE	NONSTICKY	NONPLASTIC	GRADUAL <5"	SMOOTH	CMN (20% MEI MAX) MEI	NONE			BAG	6	S-1	
				GRAVEL	COBBLES	STONES	BOULDERS																	
10-40	Light Yellowish Brown (10YR 6/4)	COBBLY	SILT LOAM	5	20	10	10	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	SMOOTH	NONE	NONE			BAG	24	S-2	PT-122 @ 32" = 0.0 IPI
				GRAVEL	COBBLES	STONES	BOULDERS																	
40-54	Light Yellowish Brown (10YR 6/4)	GRAVELLY	SILT LOAM	5	5	5	0	SUBANGULAR BLOCKY	STRONG	MEDIUM	MOIST	HARD	NONSTICKY	NONPLASTIC	GRADUAL <5"	SMOOTH	NONE	CMN (20% MAX	MEDIUM 5MM-15MM	FAINT	BAG	42	S-3	
				GRAVEL	COBBLES	STONES	BOULDERS																	
54-78	Light Yellowish Brown (10YR 6/4)	VERY COBBLY	SILT LOAM	20	20	10	0	SUBANGULAR BLOCKY	STRONG	MEDIUM	MOIST	HARD	NONSTICKY	NONPLASTIC	GRADUAL <5"	SMOOTH	NONE	CMN (20% MAX	MEDIUM 5MM-15MM	DISTINCT	BAG	66	S-4	
				GRAVEL	COBBLES	STONES	BOULDERS																	
78-84	Dark Gray Weathered Rock (10YR 5/1)	EXTREMELY STONEY	SANDY LOAM	20	30	30	20	SUBANGULAR BLOCKY	STRONG	MEDIUM	MOIST	HARD	NONSTICKY	NONPLASTIC			NONE	NONE			BAG	78	S-5	
-																							ı	<u></u>
																								I

Additional Remarks: Soil profile pit SPP-122 encountered refusal at approximately 7.0 feet below the ground surface on apparent rock.



Page <u>1</u> of <u>1</u>

Project:	Proposed Industria	I Warehouse										Project No.:	2803-99-012E												
Location: Surface Ele		own of Cornwall, 142.0	Orange County, New Date Started:	York			12/8/22		I		I	Client:	Cornwall Logistics, L Depth	C c/o Treetop Develop	ment, LLC	El.									
Termination		4.9	Date Completed:				12/8/22		Groundwa	ater Data			(ft)			(ft)					Groundwa	iter Comm	nents		
Proposed L Excavation	ocation:	SWM		Logged by			J. Gomez		Seepage				NE												
/ Test	Visual Observation			Contractor:			Property Managen lobcat E60	nent	Groundwater				NE NE			-									
Method:	1			Rig Type	:		ODCAL EOU	1	Mottling																
DEPTH (IN)	COLOR	9011	TEXTURE		COARSE FRA	ACMENTS (N	,		STRUCTURE		WATER		CONSISTENCY		BOUN	IDARY	ROOTS		M	OTTLING			SAMPLIN	G	LAB RESULTS
DE1 111 (IIV)	002011	001.	TEXTORE		OUNIOE 110	AGMILITIO (70	,	Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography	1,0010	Quan	itity	Size	Contrast	Туре	Depth (in)	No.	EAD REGUETO
				GRAVEL	0000150	0701150	BOULDERS		l			Kupture											(111)		
				GRAVEL	COBBLES	STONES	BOULDERS																		
0-10	Black (7.5YR 2.5/1)		CLAY LOAM	0	0	0	0	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	MNY (>20% MAX)	NE NOM	NE						
				GRAVEL	COBBLES	STONES	BOULDERS																		
10-25	Gray (10YR 5/1)	VERY BOULDERY	CLAY LOAM	10	10	10	30	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	CMN (20% FI MAX)	NE NOM	NE			BAG	16	S-1	
				GRAVEL	COBBLES	STONES	BOULDERS																		
25-59	Yellowish Brown (10YR 5/6)	EXTREMELY BOULDERY	LOAMY SAND	10	15	15	30	SUBANGULAR BLOCKY	WEAK	MEDIUM	MOIST	FRIABLE	SLIGHTLY STICKY	SLIGHTLY PLASTIC			NONE	NOM	NE			BAG	30	S-2	
								-																	
Additional	Domarka: Infiltra	tion test not no	erformed due to ex	cassiva coars	o fragmente	Coil Drofil	o D# SDD 121	3 encountered re	fueal at annrovi	imately 4.0 fee	at due to annar	rent houlders													

Additional Remarks: Infiltration test not performed due to excessive coarse fragments. Soil Profile Pit SPP-123 encountered refusal at approximately 4.9 feet due to apparent boulders



Soil Profile Pit: <u>SPP-124</u>
Page <u>1</u> of <u>1</u>

Project: Pr	roposed Industrial	Warehouse	Orange County, New	York									2803-99-012E	LC c/o Treetop Develop	ment LLC								
Surface Elevati		165.0	Date Started:				1/22/22		Groundw	enter Date			Depth	rectop bevelop		EL				C	ater Comme	ı.	
Termination De		11.0	Date Completed:		·		1/22/22		Groundw	vater Data			(ft)			(ft)				Groundwi	ater Comme	its	
Proposed Loca Excavation	ation:	SWM		Logged by			. Seselgis		Seepage				NE										
/ Test \	Visual Observation			Contractor			roperty Managem	ent	Groundwater				NE										
Method:				Rig Type	:	В	obcat E60		Mottling			1	NE			-	,						
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	AGMENTS (%)			STRUCTURE		WATER		CONSISTENCY		BOU	IDARY	ROOTS		MOTTLING	,		MPLING	LAB RESULTS
								Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography		Quantity	Size	Contrast	Туре	Depth (in) No	
				GRAVEL	COBBLES	STONES	BOULDERS																
0-10	TOPSOIL Dark Gray (10YR 4/1)		SILT LOAM	10	0	0	0	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	SMOOTH	CMN (20% MEDIUM MAX)	NONE			BAG	4 S-1	
				GRAVEL	COBBLES	STONES	BOULDERS																
10-24	Light Yellowish Brown (10YR 6/4)		SILT LOAM	10	0	0		SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	SMOOTH	NONE	NONE			BAG	20 S-2	
				GRAVEL	COBBLES	STONES	BOULDERS		STRUCTU	URELESS													
24-60	Light Yellowish Brown (10YR 6/4)	GRAVELLY	SAND	20	10	0	0	SINGLE GRAIN			MOIST	LOOSE	NONSTICKY	NONPLASTIC	GRADUAL <5"	SMOOTH	NONE	NONE			BAG	40 S-3	PT-124 @ 36" = 24. IPH
				GRAVEL	COBBLES	STONES	BOULDERS		STRUCTL	URELESS													
60-132	Light Yellowish Brown (10YR 6/4)	VERY GRAVELLY	SAND	30	20	10	0	SINGLE GRAIN			MOIST	LOOSE	NONSTICKY	NONPLASTIC			NONE	NONE			BAG	72 S-4	



SOIL PROFILE PIT LOG Soil Profile Pit: SPP-125

Page <u>1</u> of <u>1</u>

Project:	Proposed Industria	l Warehouse										Project No.:	2803-99-012E												
Location:	US Highway 9W, To	own of Cornwall	Orange County, New	York								Client:		LC c/o Treetop Develop	ment, LLC										
Surface Elev Termination		140.0 10.1	Date Started:				12/8/22		Groundy	water Data	1		Depth (ft)		1	EL (ft)					Groundw	ater Comr	ments		
Proposed Lo		SWM	Date Completed:	Logged by	:		J. Gomez		Seepage				(H) NE		1	(It) -									
Excavation				Contractor:			roperty Managem	nent	Groundwater				NE												
/ lest Method:	Visual Observation			Rig Type	:	В	obcat E60		Mottling				NE			-									
			1						STRUCTURE		WATER		CONSISTENCY		BOU	NDARY				MOTTLING			SAMPLIN	G	
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	AGMENTS (%)		Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography	ROOTS	3	Quantity	Size	Contrast	Туре	Depth (in)	No.	LAB RESULTS
				GRAVEL	COBBLES	STONES	BOULDERS					Rupture								1			(,		
0-13	TOPSOIL Dark Gray (10YR 4/1)		SILTY CLAY	0	0	0	0	SUBANGULAR BLOCKY	WEAK	FINE	MOIST	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC	CLEAR <2.5"	WAVY	MNY (>20% MAX)	FINE	NONE						
				GRAVEL	COBBLES	STONES	BOULDERS																		
13-27	Light Yellowish Brown (2.5Y 6/4)	VERY BOULDERY	LOAMY SAND	10	10	10	30	SUBANGULAR BLOCKY	WEAK	FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	MNY (>20% MAX)	FINE	NONE			BAG	24	S-1 F	rT-125 @ 16" = 24.0 IPH
				GRAVEL	COBBLES	STONES	BOULDERS																		
27-98	Light Yellowish Brown (10YR 6/4)	EXTREMELY BOULDERY	LOAMY SAND	10	10	10	40	SUBANGULAR BLOCKY	WEAK	COARSE	MOIST	FRIABLE	SLIGHTLY STICKY	SLIGHTLY PLASTIC	CLEAR <2.5"	WAVY	FEW (5% MAX)	VERY FINE	NONE			BAG	36 55	S-2 S-3	
				GRAVEL	COBBLES	STONES	BOULDERS																		
98-121	Light Yellowish Brown (2.5Y 6/4)	EXTREMELY BOULDERY	LOAMY SAND	20	10	10	30	SUBANGULAR BLOCKY	WEAK	COARSE	MOIST	FRIABLE	SLIGHTLY STICKY	SLIGHTLY PLASTIC			FEW (5% MAX)	VERY FINE	NONE			BAG	102	S-4	
				1									+				1		 						
								1																	
1																									
Additional	Domarka: Cail nr	ofile pit CDD	25 encountered re	fucal at appr	ovimataly 10	1 foot bolo	u the ground o	urface on apper	ont houldors					-	-										

Additional Remarks: Soil profile pit SPP-125 encountered refusal at approximately 10.1 feet below the ground surface on apparent boulders.



SOIL PROFILE PIT LOG Soil Profile Pit: SPP-126

Page <u>1</u> of <u>1</u>

Project:	Proposed Industrial	l Warehouse										Project No.:	2803-99-012E											
			, Orange County, New	York								Client:		LC c/o Treetop Develop	ment, LLC									
Surface Elev		142.0	Date Started:				12/8/22		Groundw	nter Data			Depth			El.					Groundw	ater Comm	nante	
Termination		11.3	Date Completed:				12/9/22			atti Data			(ft)			(ft)					Ground	atti Comi		
Proposed Lo Excavation	cation:	SWM		Logged by Contractor:			. Gomez roperty Managem	ont	Seepage Groundwater				NE 5.2			136.8								
/ Test	Visual Observation					-	bcat E60	unt					1.2			140.8		Light	gray mottling	(10 YK //1) 14	* - 30*; possible p	iercnea co	ondition	
Method:				Rig Type	:		JUCAL EUU		Mottling STRUCTURE			1	CONSISTENCY		POU	NDARY				MOTTLING		Γ.	SAMPLIN	
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	AGMENTS (%)			SIRUCIURE		WATER CONTENT	Resistance to	CONSISTENCT		600	NDART	ROOTS					,		LAB RESULTS
								Shape	Grade	Size	CONTENT	Rupture	Stickiness	Plasticity	Distinctness	Topography		C	Quantity	Size	Contrast	Type	Depth (in)	No.
				GRAVEL	COBBLES	STONES	BOULDERS																	
0-14	TOPSOIL Dark Gray (10YR 4/1)		LOAM	5	0	0	0	SUBANGULAR BLOCKY	MODERATE	FINE	MOIST	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC	CLEAR <2.5"	WAVY	MNY (>20% MAX) ME	DIUM	NONE					
				GRAVEL	COBBLES	STONES	BOULDERS																	
14-30	Yellowish Brown (10YR 5/6)	GRAVELLY	SILT	10	5	0	0	SUBANGULAR BLOCKY	MODERATE	FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	CMN (20% MAX) MEI	DIUM	FEW	MEDIUM	DISTINCT	BAG	20	S-1 PT-126 @ 14" = 0.0 IPH
				GRAVEL	COBBLES	STONES	BOULDERS																	
30-84	Yellowish Brown (10YR 5/6)	VERY GRAVELLY	LOAMY SAND	20	5	0	0	SUBANGULAR BLOCKY	WEAK	MEDIUM	WET	FRIABLE	SLIGHTLY STICKY	SLIGHTLY PLASTIC	CLEAR <2.5"	WAVY	NONE		NONE			BAG	32	S-2
				GRAVEL	COBBLES	STONES	BOULDERS																	
84-120	Yellowish Brown (10YR 5/6)	VERY GRAVELLY	LOAMY SAND	20	10	10	5	SUBANGULAR BLOCKY	WEAK	MEDIUM	WET	FRIABLE	SLIGHTLY STICKY	SLIGHTLY PLASTIC	CLEAR <2.5"	WAVY	NONE		NONE			BAG	86	S-3
				GRAVEL	COBBLES	STONES	BOULDERS																	
120-136	Yellowish Brown (10YR 5/6)	STONEY	SANDY LOAM	10	10	10	5	SUBANGULAR BLOCKY	WEAK	MEDIUM	WET	FRIABLE	SLIGHTLY STICKY	NONPLASTIC			NONE		NONE			BAG	126	S-4
							·															1 7		
			126 was terminate																					

Additional Remarks: Soil profile pit SPP-126 was terminated at approximately 11.3 feet below the ground surface.



Soil Profile Pit: <u>SPP-127</u>
Page <u>1</u> of <u>1</u>

Project:	Proposed Industrial	Warehouse										Project No.:	2803-99-012E		2803-99-012E								
Location:	US Highway 9W, To	wn of Cornwall, (Orange County, New	York										LC c/o Treetop Develop									
Surface Elev	vation (ft):	166.0	Date Started:				1/23/22		Groundw	vater Data			Depth			EL				Groundwater C	omments		
Termination Proposed Lo		12.0 SWM	Date Completed:				1/23/22 Seselgis						(ft) NE			(ft)		1					
Excavation		SWM		Logged by Contractor:			roperty Managem	nent	Seepage Groundwater				11.0			155.0							
	Visual Observation			Rig Type			obcat E60		Mottling				NE			_							
Method:			1	Kig Type					STRUCTURE				CONSISTENCY		BOUL	IDARY			MOTTLING		SAMPL	ING	
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	AGMENTS (%)		Shape	Grade	Size	WATER	Resistance to	Stickiness	Plasticity	Distinctness		ROOTS		Size	Contrast Ty	Dent		LAB RESULTS
								Snape	Grade	Size		Rupture	Stickiness	Plasticity	Distinctness	Topography		Quantity	Size	Contrast Ty	e (in)	No.	
				GRAVEL	COBBLES	STONES	BOULDERS																
0-9	TOPSOIL Dark Gray (10YR 4/1)		LOAM	10	0	0	0	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	SMOOTH	CMN (20% MEDIUM MAX)	NONE		ВА	G 5	S-1	
				GRAVEL	COBBLES	STONES	BOULDERS																
	Yellowish Brown																						
9-24	(10YR 5/4)		SANDY LOAM	5	0	0	10	SUBANGULAR BLOCKY	WEAK	MEDIUM	MOIST	FRIABLE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	SMOOTH	NONE	NONE		BA	G 18	S-2	
				GRAVEL	COBBLES	STONES	BOULDERS		STRUCTI	URELESS													
24-48	Yellowish Brown (10YR 5/4)		SAND	10	0	0	0	SINGLE GRAIN			MOIST	LOOSE	NONSTICKY	NONPLASTIC	GRADUAL <5"	SMOOTH	NONE	NONE		ВА	G 36	S-3	
				GRAVEL	COBBLES	STONES	BOULDERS		STRUCTI	URELESS													+
48-52	Light Yellowish Brown (10YR 6/4)		LOAMY SAND	3	0	0	0	SINGLE GRAIN			MOIST	LOOSE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	SMOOTH	NONE	NONE		ВА	G 50	S-4	PT-127 @ 48" = 24.0 IPH
				GRAVEL	COBBLES	STONES	BOULDERS		STRUCTI	URELESS													
52-132	Grayish Brown (10YR 5/2)		SAND	5	0	0	0	SINGLE GRAIN			MOIST	LOOSE	NONSTICKY	NONPLASTIC	GRADUAL <5"	SMOOTH	NONE	NONE		ВА	G 96	S-5	
				GRAVEL	COBBLES	STONES	BOULDERS		STRUCTI	URELESS													
132-144	Brownish Yellow (10YR 6/8)	GRAVELLY	SAND	25	10	0	0	SINGLE GRAIN			WET	LOOSE	NONSTICKY	NONPLASTIC			NONE	NONE		BA	G 144	S-6	
Additional	Remarks: Soil pro	ofile nit SDD-13	77 was terminated	d at annrovim	ataly 12 N fac	at balaw tha	ground curfo	00			1	1	l	1	1		1	1				\perp	

Additional Remarks: Soil profile pit SPP-127 was terminated at approximately 12.0 feet below the ground surface.



Soil Profile Pit: SPP-128

Page <u>1</u> of <u>1</u>

roject:	Proposed Industrial	Warehouse										Project No.:	2803-99-012E										
ocation:	US Highway 9W, To	wn of Cornwall, (York								Client:		C c/o Treetop Develop	ment, LLC								
urface Elev		142.0 13.2	Date Started:				2/8/22		Groundw	vater Data			Depth (ft)			El. (ft)				Groundwa	ter Comment	s	
ermination roposed Lo		SWM	Date Completed:	Logged by:			Gomez		Seepage				NE NE			(11)							
Excavation				Contractor:			perty Manageme	nt	Groundwater				NE										
/ Test Method:	Visual Observation			Rig Type:	:	Bot	ocat E60		Mottling				NE			-							
	COLOR		TEXTURE		COARSE FRA				STRUCTURE		WATER		CONSISTENCY		BOUN	IDARY	ROOTS		MOTTLING		SA	IPLING	
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	GMENTS (%)		Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography	ROOTS	Quantity	Size	Contrast	Type D	epth (in)	LAB RESULTS
				GRAVEL	COBBLES	STONES	BOULDERS		•														
0-12	TOPSOIL Dark Gray (10YR 4/1)		SILTY CLAY	0	0	0	0		STRONG	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	MNY (>20% FINE MAX)	NONE					
				GRAVEL	COBBLES	STONES	BOULDERS																
12-20	Yellowish Brown (10YR 5/6)	BOULDERY	SILTY CLAY	10	5	5	15	SUBANGULAR BLOCKY	STRONG	VERY FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	FEW (5% MAX) FINE	NONE			BAG	16 S-	
				GRAVEL	COBBLES	STONES	BOULDERS																
20-32	Yellowish Brown (10YR 5/6)	VERY BOULDERY	SANDY CLAY LOAM	10	5	5	25	SUBANGULAR BLOCKY	MODERATE	FINE	MOIST	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC	CLEAR <2.5"	WAVY	FEW (5% MAX) VERY FINE	NONE			BAG	26 S-2	PT-128 @ 30" = 1 IPH
				GRAVEL	COBBLES	STONES	BOULDERS																
32-65	Yellowish Brown (10YR 5/6)	VERY BOULDERY	LOAM	10	5	5	25	SUBANGULAR BLOCKY	WEAK	MEDIUM	MOIST	FRIABLE	SLIGHTLY STICKY	SLIGHTLY PLASTIC	CLEAR <2.5"	WAVY	NONE	NONE			BAG	36 S-	
				GRAVEL	COBBLES	STONES	BOULDERS																
60-98	Yellowish Brown (10YR 5/6)	VERY BOULDERY	LOAMY SAND	25	5	5	25	SUBANGULAR BLOCKY	WEAK	MEDIUM	MOIST	FRIABLE	SLIGHTLY STICKY	SLIGHTLY PLASTIC	CLEAR <2.5"	WAVY	NONE	NONE			BAG	65 S-	
				GRAVEL	COBBLES	STONES	BOULDERS																
98-120	Yellowish Brown (10YR 5/6)	VERY GRAVELLY	SANDY CLAY LOAM	25	5	5	20	SUBANGULAR BLOCKY	WEAK	FINE	MOIST	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC	GRADUAL <5"	WAVY	NONE	NONE			BAG	104 S-	
				CHANNERS	FLAGSTONES	STONES	BOULDERS																
120-158	Weak Red (10R 5/4)	EXTREMELY CHANNERY	LOAMY SAND	40	50	0	0	SUBANGULAR BLOCKY	WEAK	COARSE	MOIST	FRIABLE	SLIGHTLY STICKY	NONPLASTIC			NONE	NONE			BAG	124 S-4	

Additional Remarks: Weathered rock encountered from 120" - 158". Soil profile pit SPP-128 was terminated at approximately 13.2 feet below the ground surface.



Soil Profile Pit: <u>SPP-129</u>
Page <u>1</u> of <u>1</u>

Project:	Proposed Industrial	Warehouse										Project No.:	2803-99-012E										
			Orange County, New	York										LC c/o Treetop Develop	ment, LLC								
Surface Elevi		137.0	Date Started:				12/12/22						Depth			EL							
Termination		7.0	Date Completed:				12/12/22		Groundwa	ater Data			(ft)			(ft)				Groundwater Con	iments		
Proposed Lo	cation:	SWM		Logged by:	:		. Seselgis		Seepage				NE										
Excavation				Contractor:		Neighbors P	roperty Managem	nent	Groundwater				NE										
/ Test Method:	Visual Observation			Rig Type:		Be	obcat E60		Mottling				NE										
method.			1	, , , , , , , , , , , , , , , , , , ,					STRUCTURE				CONSISTENCY			NDARY			MOTTLING		SAMPLIN		
DEPTH (IN)	COLOR	9011	TEXTURE		COARSE FRA	CMENTS (V)			STRUCTURE		WATER		CONSISTENCY		BOUN	NDARY	ROOTS		MOTILING				LAB RESULTS
DE: 111 (114)	OCLOIN	0012	LATORE		OUTLINE ! III	1011121110 (70)		Shape	Grade	Size	CONTENT	Resistance to	Stickiness	Plasticity	Distinctness	Topography		Quantity	Size	Contrast Type	Depth	No.	DAD RECOLLO
												Rupture		,							(in)		
				GRAVEL	COBBLES	STONES	BOULDERS																
	TOPSOIL																						
0-8	Dark Gray		SILT LOAM								MOIST	FRIABLE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	SMOOTH	CMN (20% MEDIUM	NONE		BAG	4	S-1	
	(10YR 4/1)			10	10	0	0	SUBANGULAR	WEAK	MEDIUM							MAX)						
	, , ,							BLOCKY															
				GRAVEL	CORRI ES	STONES	BOULDERS																
				GILAVEL	CODDLES	STONES	BOOLDERS																
	Yellowish Brown																						
8-32	(10YR 5/6)	COBBLY	SILT LOAM					SUBANGULAR	MODERATE		MOIST	FRIABLE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	SMOOTH	FEW (5% MAX) FINE	NONE		BAG	24	S-2	
				15	15	0	0	BLOCKY	MODERATE	MEDIUM													
								1			 	 		1	1						 	1	
				GRAVEL	COBBLES	STONES	BOULDERS		STRUCTU	JKELESS	1	1								1	1	1	
	Yellowish Brown	EXTREMELY						1															PT-129 @ 48" = 24.0
32-84	(10YR 5/6)	GRAVELLY	LOAMY SAND								MOIST	LOOSE	NONSTICKY	NONPLASTIC			NONE	NONE		BAG	48	S-3	IPH
	(30	20	10	10	SINGLE GRAIN															
								-															
											L	<u> </u>			1						<u> </u>		
								4			1	1						l			1	1	
				1							1	1								1	1	1	
											1	1						l			1	1	
											1	1						l			1	1	
				1							1	1								1	1	1	
								1														1	
											1	1						l			1	1	
											1	1								1	1	1	
												1											
											1	1						l			1	1	
											1	1						l			1	1	
				-				-			-	+		-	1						-	+	
				1							1	1								1	1	1	
								1			1	1								1	1	1	
												1											
											1	1						l			1	1	
				1							1	1								1	1	1	
												1										1	
Additional F	Remarks: Soil pro	offile pit SPP-1	29 encountered re	tusal on appa	arent boulders	s at approxi	mately 7.0 fe	et below the grou	ind surface.														



Soil Profile Pit: <u>SPP-130</u>
Page <u>1</u> of <u>1</u>

Project: F Location: I	Proposed Industrial	Warehouse wn of Cornwall	Orange County, New	York									2803-99-012E	LC c/o Treetop Develop	ment LLC									
Surface Eleva		137.0	Date Started:	TOTA		1	12/12/22			water Data			Depth .	EO GIO TICCIOP DEVELOP	inon, EEO	EL					ater Comme			
Termination D		11.0	Date Completed:				12/12/22		Groundw	water Data			(ft)			(ft)				Groundw	ater Comme	ats		
Proposed Loc Excavation	ation:	SWM		Logged by			. Seselgis		Seepage				NE											
	Visual Observation			Contractor:			roperty Managem	ent	Groundwater				NE											
Method:				Rig Type	:	Вс	obcat E60	1	Mottling				NE			-								
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	AGMENTS (%)			STRUCTURE		WATER		CONSISTENCY		BOU	IDARY	ROOTS		MOTTLING			AMPLING		LAB RESULTS
								Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography		Quantity	Size	Contrast	Туре	Depth (in)	No.	
				GRAVEL	COBBLES	STONES	BOULDERS																	
0-10	TOPSOIL Dark Gray (10YR 4/1)		SILT LOAM	5	5	0	0	SUBANGULAR BLOCKY	WEAK	MEDIUM	MOIST	FRIABLE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	SMOOTH	CMN (20% MEDIUM MAX)	NONE			BAG	5	S-1	
				GRAVEL	COBBLES	STONES	BOULDERS																	
10-36	Yellowish Brown (10YR 5/6)	BOULDERY	SILT LOAM	5	10	10	10	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	SLIGHTLY PLASTIC	CLEAR <2.5"	WAVY	FEW (5% MAX) FINE	NONE			BAG	20	S-2	PT-130 @ 24" = 0.75 IPH
				GRAVEL	COBBLES	STONES	BOULDERS		STRUCTI	URELESS														
36-132	Yellowish Brown (10YR 5/6)	EXTREMELY COBBLY	LOAMY SAND	20	35	10	10	SINGLE GRAIN			MOIST	LOOSE	NONSTICKY	NONPLASTIC			NONE	NONE			BAG	50	S-3	
								-																
																							_	
								_																
Additional R	Remarks: Soil pr	ofile nit SPP-1	30 was terminated	at annrovim	ately 11 0 fee	at helow the	around surfa	200																



Soil Profile Pit: <u>SPP-131</u>
Page <u>1</u> of <u>1</u>

	Proposed Industrial		Orange County, New	York									2803-99-012E	LC c/o Treetop Develop	ment LLC									
Surface Eleva		137.0	Date Started:	TOTA			12/8/22			water Data			Depth	Eo dio Trediop Develop	inom, EEO	El.				-	ater Comm			
Termination D		10.3	Date Completed:				12/9/22		Ground	water Data			(ft)			(ft)				Groundw	ater Comm	zents		
Proposed Loc Excavation	ation:	SWM		Logged by: Contractor:			. Gomez operty Managem		Seepage Groundwater				NE NE											
/ Test	Visual Observation						bcat E60	ent					NE NE											
Method:			1	Rig Type:	:		DOLK EUU		Mottling												1			
DEPTH (IN)	COLOR	6011	TEXTURE		COARSE FRA	CHENTO (IV)			STRUCTURE		WATER		CONSISTENCY		BOU	NDARY	ROOTS		MOTTLING			SAMPLING	3	LAB RESULTS
DEFIN (III)	COLOR	JOIL	TEXTORE		COARSETRA	IGMENTS (70)		Shape	Grade	Size	CONTENT	Resistance to	Stickiness	Plasticity	Distinctness	Topography	ROOTS	Quantity	Size	Contrast	Туре	Depth (in)	No.	LAB RESULTS
												Rupture								1		(III)	\vdash	
				GRAVEL	COBBLES	STONES	BOULDERS															i	l l	
	Black	VERY											SLIGHTLY	MODERATELY								i	l l	
0-11	(7.5YR 2.5/1)	BOULDERY	SILTY CLAY	10	15	15	20	SUBANGULAR	WEAK	FINE	MOIST	FRIABLE	STICKY	PLASTIC	CLEAR <2.5"	WAVY	FEW (5% MAX) MEDIUM	NONE						
				10	15	15	20	BLOCKY	WEAK	FINE												i	l l	
				GRAVEL	COBBLES	STONES	BOULDERS															i	l l	
																						i	l l	
11-22	Brownish Yellow (10YR 6/6)	VERY BOULDERY	SANDY CLAY LOAM					SUBANGULAR			MOIST	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC	CLEAR <2.5"	WAVY	FEW (5% MAX) FINE	NONE			BAG	16	S-1	
	(1011 010)	BOOLDERI	LOAM	10	15	15	20	BLOCKY	WEAK	FINE			SHORT	PEASITO								i	l l	
																						i	l l	
				0041151	0000150	OTOLIEO	001110500																	
				GRAVEL	COBBLES	STONES	BOULDERS															i	l l	
22-38	Brownish Yellow	EXTREMELY	SILTY CLAY								MOIST	FRIABLE	SLIGHTLY	VERY PLASTIC	CLEAR <2.5"	WAVY	FEW (5% MAX) FINE	NONE			BAG	30	S-2	
22-30	(10YR 6/6)	BOULDERY	SILITCLAT	10	20	20	20	SUBANGULAR	WEAK	VERY FINE	MOIST	PRIABLE	STICKY	VERT PLASTIC	CLEAR <2.5	WAVT	FEW (5% MAX) FINE	NONE			BAG	30	3-2	
								BLOCKY														i	l l	
				GRAVEL	COBBLES	STONES	BOULDERS															i	l l	
													SLIGHTLY	SLIGHTLY								i	l l	
38-112	Yellowish Brown (10YR 5/6)	EXTREMELY BOULDERY	LOAMY SAND					SUBANGULAR			MOIST	FRIABLE	STICKY	PLASTIC	CLEAR <2.5"	WAVY	NONE	NONE			BAG	44	S-3	PT-131 @ 48" = 24.0 IPH
	, ,			10	20	20	20	BLOCKY	WEAK	MEDIUM			-									i	l l	
																						i	l l	
				GRAVEL	COBBLES	STONES	BOULDERS																	
																						i	l l	
112-124	Yellowish Brown	EXTREMELY BOULDERY	SANDY CLAY LOAM								MOIST	FRIABLE	SLIGHTLY STICKY	NONPLASTIC			NONE	NONE			BAG	116	S-4	
	(10YR 5/6)	BOULDERY	LOAM	10	20	20	20	SUBANGULAR BLOCKY	WEAK	MEDIUM			STICKY									i	l l	
																						i	l l	
																							+	
																						i	l l	
																						i	l l	
																						i	l l	
																						i	l l	
				-											1						1		\vdash	
																						i		
								İ														i		
																						i		
																						i		
																						i		
	-			1																				
								-														i		
																	1	1						
																						i		
																	1	1						
Additional R	Remarks: Soil on	ofile pit SPP-1	31 was terminated	d at approxima	ately 10.3 fee	t below the	ground surfa	ne.				1		I	1		1	1						
u.uoridi i	anno. com pri	pr. 01 1 -1		аррголин	, .0.0100	0.0	g. 20110 Odila																	



Soil Profile Pit: <u>SPP-132</u>
Page <u>1</u> of <u>1</u>

Project:	Proposed Industrial	l Warehouse											2803-99-012E		2803-99-012E								
Location: Surface Elev		own of Cornwall, 137.0	Orange County, New Date Started:	York			12/8/22				1		Cornwall Logistics, LL Depth	_C c/o Treetop Develop	oment, LLC	EL		ı					
Termination		11.1	Date Started: Date Completed:		-		12/9/22		Groundwa	iter Data			(ft)			(ft)				Groundw	ater Comments		
Proposed Lo	ocation:	SWM		Logged by			. Gomez		Seepage				5.0			132.0							
Excavation	Visual Observation			Contractor:			roperty Managem	ent	Groundwater				NE			-							
Method:	Visual Observation			Rig Type	:	Bo	obcat E60		Mottling				NE										
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	GMENTS (%)			STRUCTURE		WATER		CONSISTENCY		BOU	NDARY	ROOTS		MOTTLING		SAMP		LAB RESULTS
DEI III (IIV)	GGEGIK	0012	TEXTORE		CONTROL	OMENTO (70)		Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography	1,0010	Quantity	Size	Contrast	Type Dep	th No.	
				GRAVEL	COBBLES	STONES	BOULDERS																
0-8	Brownish Yellow (10YR 6/6)	VERY BOULDERY	SILTY CLAY LOAM	10	10	10	10	SUBANGULAR BLOCKY	WEAK	FINE	MOIST	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC	CLEAR <2.5"	WAVY	CMN (20% FINE MAX)	NONE					
				GRAVEL	COBBLES	STONES	BOULDERS																
8-23	Brownish Yellow (10YR 6/6)	VERY BOULDERY	CLAY LOAM	10	10	10	10	SUBANGULAR BLOCKY	WEAK	FINE	MOIST	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC	CLEAR <2.5"	WAVY	CMN (20% FINE MAX)	NONE			BAG 16	S-1	
				GRAVEL	COBBLES	STONES	BOULDERS																
23-60	Brownish Yellow (10YR 6/8)	VERY BOULDERY	SANDY CLAY LOAM	10	10	10	20	SUBANGULAR BLOCKY	WEAK	FINE	MOIST	FRIABLE	SLIGHTLY STICKY	SLIGHTLY PLASTIC	CLEAR <2.5"	WAVY	FEW (5% MAX) FINE	NONE			BAG 30	S-2	PT-132 @ 16" = 0.5 IPH
				GRAVEL	COBBLES	STONES	BOULDERS																
60-133	Dark Brown (10YR 3/3)	VERY BOULDERY	LOAMY SAND	10	10	10	20	SUBANGULAR BLOCKY	WEAK	FINE	WET	FRIABLE	SLIGHTLY STICKY	NONPLASTIC			NONE	NONE			BAG 69	S-3	
		£1 '1 ODD	132 was terminated																			\perp	

Additional Remarks: Soil profile pit SPP-132 was terminated at approximately 11.1 feet below the ground surface.



Soil Profile Pit: <u>SPP-133</u>
Page <u>1</u> of <u>1</u>

	Proposed Industrial												2803-99-012E										
Location:			Orange County, New	York					,			Client:		C c/o Treetop Develop	ment, LLC								
Surface Ele		137.0	Date Started:				12/8/22		Groundy	vater Data			Depth			EL				Groundwa	ter Comment	s	
Termination Proposed Le		10.8 SWM	Date Completed:	Logged by:			. Gomez		Seepage				(ft) 5.3			(ft) 131.7							
Excavation				Contractor:			operty Managem	ent	Groundwater				NE					1					
/ Test Method:	Visual Observation			Rig Type:		В	bcat E60		Mottling				NE			-		1					
			1						STRUCTURE		WATER		CONSISTENCY		BOU	NDARY			MOTTLING		SAI	IPLING	
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	GMENTS (%)		Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography	ROOTS	Quantity	Size	Contrast	Type D	epth (in) N	LAB RESULTS
		GRAVEL COBBLES STONES BOULDERS								1		Nupture							1			,	
0-10	Brownish Yellow (10YR 6/6)		SILTY CLAY	0	0	0	0	SUBANGULAR BLOCKY	WEAK	FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	CMN (20% FINE MAX)	NONE					
				GRAVEL	COBBLES	STONES	BOULDERS																
10-31	Brownish Yellow (10YR 6/6)	VERY STONE	SANDY CLAY LOAM	10	20	20	10	SUBANGULAR BLOCKY	WEAK	FINE	MOIST	FRIABLE	SLIGHTLY STICKY	VERY PLASTIC	CLEAR <2.5"	WAVY	CMN (20% FINE MAX)	NONE			BAG	20 S	PT-133 @ 24" = 1.0 IP
				GRAVEL	COBBLES	STONES	BOULDERS																
31-64	Brown (10YR 5/3)	EXTREMELY BOULDERY	LOAMY SAND	10	20	20	20	SUBANGULAR BLOCKY	WEAK	MEDIUM	MOIST	FRIABLE	SLIGHTLY STICKY	SLIGHTLY PLASTIC	CLEAR <2.5"	WAVY	NONE	NONE			BAG	36 S-	
				GRAVEL	COBBLES	STONES	BOULDERS																
64-129	Brown (10YR 5/3)	EXTREMELY BOULDERY	LOAMY SAND	10	20	20	20	SUBANGULAR BLOCKY	WEAK	MEDIUM	WET	FRIABLE	SLIGHTLY STICKY	SLIGHTLY PLASTIC			NONE	NONE			BAG	76 S-	3



Soil Profile Pit: <u>SPP-134</u>
Page <u>1</u> of <u>1</u>

Project:	Proposed Industria	I Warahousa										Project No.:	2803-99-012E		2803-99-012E									
Location:	US Highway 9W, T	own of Cornwall	, Orange County, New	York								Client:		LC c/o Treetop Develop										
Surface Elev	vation (ft):	140.0	Date Started:				12/8/22		Groundy	water Data			Depth	•		El.				Groundw	ater Comm	ients		
Termination		8.3 SWM	Date Completed:	1			12/9/22 . Gomez						(R) NE		1	(ft)						-		
Proposed Lo Excavation				Logged by Contractor:			operty Managem	ent	Seepage Groundwater				NE NE					1						
/ Test Method:	Visual Observation			Rig Type			obcat E60		Mottling				NE											
				rug rypc					STRUCTURE		WATER		CONSISTENCY		BOU	NDARY			MOTTLING		:	SAMPLING		
DEPTH (IN)	COLOR	SOIL	LTEXTURE		COARSE FRA	GMENTS (%)		Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography	ROOTS	Quantity	Size	Contrast	Туре	Depth (in)	No.	LAB RESULTS
				GRAVEL	COBBLES	STONES	BOULDERS	1		1		Kupture				1			-			(III)		-
0-9	TOPSOIL	VERY STONE	Y SILTY CLAY LOAM	10	20	20	10	SUBANGULAR BLOCKY	WEAK	FINE	MOIST	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC	CLEAR <2.5"	WAVY	MNY (>20% FINE MAX)	NONE						
				GRAVEL	COBBLES	STONES	BOULDERS																	
9-32	Brownish Yellow (10YR 6/6)	EXTREMELY STONEY	SILTY CLAY LOAM	10	25	25	10	SUBANGULAR BLOCKY	WEAK	FINE	MOIST	FRIABLE	SLIGHTLY STICKY	MODERATELY PLASTIC	CLEAR <2.5"	WAVY	CMN (20% MAX) FINE	NONE			BAG	18	S-1	
				GRAVEL	COBBLES	STONES	BOULDERS																	
32-71	Brown (10YR 5/3)	EXTREMELY GRAVELLY		25	20	20	10	SUBANGULAR BLOCKY	WEAK	MEDIUM	MOIST	FRIABLE	SLIGHTLY STICKY	SLIGHTLY PLASTIC	CLEAR <2.5"	SMOOTH	FEW (5% MAX) FINE	NONE			BAG	40	S-2	
				GRAVEL	COBBLES	STONES	BOULDERS																1	-
71-99	Brown (10YR 5/3)	EXTREMELY GRAVELLY		25	20	20	15	SUBANGULAR BLOCKY	WEAK	MEDIUM	MOIST	FRIABLE	SLIGHTLY STICKY	SLIGHTLY PLASTIC			NONE	NONE			BAG	95	S-3	
								1																
A	Damania Infilm	tion tooting ==	t performed due to	high coars - 1	froamonto C	oil profile =	+ CDD 124	countered ref :	al on annor	houldorn at	provimatel: 0 1	2 foot bolow the	round ourfood					1						

Additional Remarks: Infiltration testing not performed due to high coarse fragments. Soil profile pit SPP-134 encountered refusal on apparent boulders at approximately 8.3 feet below the ground surface.



Soil Profile Pit: SPP-135

Page <u>1</u> of <u>1</u>

Project:	Proposed Industrial	Warehouse	Orange County, New	Vork									2803-99-012E	LC c/o Treetop Develop	ment IIC										
Surface Elev		137.0	Date Started:	TORK		-	12/12/22						Depth	LC C/O Treetop Developi	ment, LLC	EL									
Termination		9.0	Date Completed:		-		12/12/22		Groundw	vater Data			(ft)			(ft)					Groundw	ater Comm	nents		
Proposed Lo	cation:	SWM		Logged by			. Seselgis		Seepage				NE			·			_						
Excavation / Test	Visual Observation			Contractor:			roperty Managem	nent	Groundwater				NE			-			_						
Method:		,		Rig Type) :	В	obcat E60		Mottling			,	NE			-	,								
									STRUCTURE		WATER		CONSISTENCY		BOUR	NDARY				MOTTLING		8	SAMPLING	G	
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	AGMENTS (%)		Shape	Grade	Size	CONTENT	Resistance to	Stickiness	Plasticity	Distinctness	Topography	RO	OTS	Quantity	Size	Contrast	Туре	Depth	No.	LAB RESULTS
								Snape	Grade	3126		Rupture	Stickilless	riasticity	Distilictiess	Topography			quantity	3120	Contrast	Type	(in)	NO.	
				GRAVEL	COBBLES	STONES	BOULDERS																		
	TOPSOIL							1																	
0-10	Dark Gray		SILT LOAM					SUBANGULAR			MOIST	FRIABLE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	SMOOTH	CMN (20% MAX)	MEDIUM	NONE			BAG	4	S-1	
	(10YR 4/1)			5	5	5	0	BLOCKY	WEAK	MEDIUM							,								
				GRAVEL	CORRIEC	CTONEC	BOULDERS																		
				GIOAVEE	COBBLES	STONES	BOOLDENS	4																	
10-32	Yellowish Brown	VERY CORRLY	SANDY LOAM								MOIST	FRIABLE	NONSTICKY	SLIGHTLY	CLEAR <2.5"	SMOOTH	FEW (5% MAX) FINE	NONE			BAG	24	8.2	PT-135 @ 24" = 6.0 IP
10-32	(10YR 5/6)	VERT COBBET	SANDT LOAM	10	15	10	0	SUBANGULAR	MODERATE	MEDIUM	moisi	FRIADLE	NONSTICKT	PLASTIC	CLEAR 12.0	31100111	FEW (5 % MIAA	, rine	HONE			BAG	24	3-2	F1-135@24 = 0.0 IF
								BLOCKY																	
				GRAVEL	COBBLES	STONES	BOULDERS		STRUCTU	URELESS															
	Vellendek Berne	EXTREMELY						1																	
32-108	Yellowish Brown (10YR 5/6)	COBBLY	LOAMY SAND								MOIST	LOOSE	NONSTICKY	NONPLASTIC			NONE		NONE			BAG	40	S-3	
	, , , , ,			20	30	20	10	SINGLE GRAIN																	
								-																	
																						l T			
								+																	
								1																	
											1				1										
								1																	
Additional I	Remarks: Soil pr	ofile pit SPP-1	35 encountered re	fusal on appa	arent boulder	s at approxi	mately 9.0 fe	et below the gro	und surface.																



Soil Profile Pit: SPP-136

Page 1 of 1

Project: Proposed Industrial Warehouse
Location: US Highway 9W, Town of Comwall, Crange County, New York
Surface Elevation (It): 137.0
Date Started:
Date Completed:
Date Completed: Project No.: 2803-99-012E Cornwall Logistics, LLC c/o Treetop Development, LLC
Depth **Groundwater Comments** 12/15/22 G. Seselgis Neighbors Property Management (ft) Proposed Location: Excavation / Test Visual C Logged by: Seepage Groundwater NE Bobcat E60 NE Rig Type: Method: CONSISTENCY MOTTLING SAMPLING STRUCTURE BOUNDARY DEPTH (IN) COLOR SOIL TEXTURE COARSE FRAGMENTS (%) ROOTS LAB RESULTS CONTENT Type Depth (in) No. Grade Size Stickiness Plasticity Distinctness Topography Quantity Size Contrast Rupture GRAVEL COBBLES STONES BOULDERS TOPSOIL Dark Yellow Brown (10YR 4/4) 0-11 LOAM MOIST FRIABLE NONSTICKY NONPLASTIC CLEAR <2.5" SMOOTH MEDIUM NONE SUBANGULAR BLOCKY WEAK MEDIUM 5 0 0 GRAVEL COBBLES STONES BOULDERS SLIGHTLY PLASTIC Yellowish Brown VERY FRIABLE NONSTICKY CLEAR <2.5" FEW (5% MAX) FINE NONE BAG 16 S-1 PT-136 @ 16" = 0.5 IPH 11-24 SILT LOAM MOIST WAVY (10YR 5/6) GRAVELLY SUBANGULAR MODERATE MEDIUM GRAVEL COBBLES STONES BOULDERS STRUCTURELESS Yellowish Brown (10YR 5/6) MOIST LOOSE NONSTICKY NONPLASTIC CLEAR <2.5" NONE NONE BAG 48 S-2 24-84 COBBLY 10 SINGLE GRAIN GRAVEL COBBLES STONES BOULDERS STRUCTURELESS EXTREMELY COBBLY Grayish Brown (10YR 5/2) 84-120 LOOSE NONSTICKY NONPLASTIC CLEAR <2.5" NONE NONE BAG 96 S-3 30 10 10 SINGLE GRAIN GRAVEL COBBLES STONES BOULDERS STRUCTURELESS Grayish Brown (10YR 5/2) VERY 132 S-4 120-144 SAND MOIST LOOSE NONSTICKY NONPLASTIC NONE NONE BAG GRAVELLY SINGLE GRAIN

Additional Remarks: Soil profile pit SPP-136 was terminated at approximately 12.0 feet below the ground surface.



Soil Profile Pit: <u>SPP-137</u>
Page <u>1</u> of <u>1</u>

ocation:	IIS Highway 9W To	own of Cornwall	Orange County, New	Vork								Client:	Cornwell Logistics 11	LC c/o Treetop Develop	ment LLC								
Surface Elev			Date Started:	TOIK		-	12/15/22				1		Depth	LC CIO Treetop Develop	illelii, LLC	EL							
ermination		12.0	Date Completed:			1	12/15/22		Groundw	water Data			(ft)			(ft)				Groundwa	iter Commen	s	
roposed Lo	cation:	SWM		Logged by			. Seselgis		Seepage				NE			·							
Excavation / Test	Visual Observation			Contractor:			roperty Managem	ent	Groundwater				NE										
Method:				Rig Type	:	Bo	obcat E60		Mottling			,	NE										
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	AGMENTS (%)			STRUCTURE		WATER		CONSISTENCY		BOUN	NDARY	ROOTS		MOTTLING			MPLING	LAB RESULTS
								Shape	Grade	Size	CONTENT	Resistance to Rupture	Stickiness	Plasticity	Distinctness	Topography		Quantity	Size	Contrast	Type	epth (in) No.	
	TOPSOIL			GRAVEL	COBBLES	STONES	BOULDERS																
0-10	Dark Yellow Brown (10YR 4/4)		LOAM	5	0	0	0	SUBANGULAR BLOCKY	WEAK	MEDIUM	MOIST	FRIABLE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	SMOOTH	CMN (20% MEDIUM MAX)	NONE					
				GRAVEL	COBBLES	STONES	BOULDERS																
10-30	Yellowish Brown (10YR 5/6)	BOULDERY	SILT LOAM	10	10	0	10	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	SLIGHTLY PLASTIC	CLEAR <2.5"	WAVY	FEW (5% MAX) FINE	NONE			BAG	20 S-1	
				GRAVEL	COBBLES	STONES	BOULDERS		STRUCTI	URELESS													
30-96	Yellowish Brown (10YR 5/6)	EXTREMELY COBBLY	LOAMY SAND	20	30	20	20	SINGLE GRAIN			MOIST	LOOSE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	SMOOTH	NONE	NONE			BAG	48 S-2	PT-137 @ 32" = 14 IPH
				GRAVEL	COBBLES	STONES	BOULDERS		STRUCTI	URELESS													
96-144	Grayish Brown (10YR 5/2)	EXTREMELY GRAVELLY	SAND	40	30	10	0	SINGLE GRAIN			MOIST	LOOSE	NONSTICKY	NONPLASTIC			NONE	NONE			BAG	132 S-3	
		1		1				1			1	1	1		1						1 1	- 1	1



Soil Profile Pit: <u>SPP-138</u>
Page <u>1</u> of <u>1</u>

ocation:	US Highway 9W, To			YORK								Client:	Cornwall Logistics, Li	LC c/o Treetop Develop	ment, LLC								
urface Elev	ation (ft):	136.0	Date Started:				12/15/22	•	Grounds	water Data			Depth	-		EL	-	-		Groupdwa	ter Commen	ts	
ermination		12.0 SWM	Date Completed:				2/15/22 Seselgis						(ft) NE			(ft)						-	
roposed Lo	cation:	SWM		Logged by Contractor:			. Seseigis roperty Managem	nent	Seepage Groundwater				NE NE										
	Visual Observation			Rig Type			bcat E60		Mottling				NE			-							
Method:			1	Kig Type																			
DEPTH (IN)	COLOR	SOIL	TEXTURE		COARSE FRA	GMENTS (%)		-	STRUCTURE		WATER CONTENT	Resistance to	CONSISTENCY			NDARY .	ROOTS		MOTTLING	T		MPLING Depth No	LAB RESULTS
								Shape	Grade	Size		Rupture	Stickiness	Plasticity	Distinctness	Topography		Quantity	Size	Contrast	Туре	(in) No	
0-11	TOPSOIL Dark Yellow Brown		LOAM	GRAVEL 0	COBBLES	STONES 0	BOULDERS	SUBANGULAR	WEAK	MEDIUM	MOIST	FRIABLE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	SMOOTH	CMN (20% MEDIUM MAX)	NONE					
	(10YR 4/4)			GRAVEL	COBBLES			BLOCKY		III CON													
11-36	Yellowish Brown (10YR 5/6)	VERY COBBLY	SILT LOAM	10	15	10	10	SUBANGULAR BLOCKY	MODERATE	MEDIUM	MOIST	FRIABLE	NONSTICKY	SLIGHTLY PLASTIC	GRADUAL <5"	WAVY	FEW (5% MAX) FINE	NONE			BAG	24 S-	PT-138 @ 24" = 1.
				GRAVEL	COBBLES	STONES	BOULDERS		STRUCT	TURELESS													
36-78	Yellowish Brown (10YR 5/6)	EXTREMELY COBBLY	LOAMY SAND	30	40	20	10	SINGLE GRAIN			MOIST	LOOSE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	WAVY	NONE	NONE			BAG	60 S-	
				GRAVEL	COBBLES	STONES	BOULDERS		STRUCT	TURELESS													
78-120	Dark Yellowish Brown (10YR 4/4)	EXTREMELY COBBLY	SAND	30	40	20	10	SINGLE GRAIN			MOIST	LOOSE	NONSTICKY	NONPLASTIC	CLEAR <2.5"	SMOOTH	NONE	NONE			BAG	96 S-	
				GRAVEL	COBBLES	STONES	BOULDERS		STRUCT	TURELESS													
120-144	Grayish Brown (10YR 5/2)	VERY GRAVELLY	SAND	30	10	0	0	SINGLE GRAIN			MOIST	LOOSE	NONSTICKY	NONPLASTIC			NONE	NONE			BAG	132 S-	
		1		1				11			1	1	1	1	1						1	- 1	1

Client: Treetop Development, Test Hole No.: PT-1/SPP-1

LLC

Project: Proposed Industrial **Date:** 3/1/2022

Warehouse

Location: Cornwall, NY **Weather:** Clear 40°F

Surface Elevat	tion: 226	5.0 ft.		Test Depth: 4 ft.			
Reading No.	Water Le	evel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)		
1	24	22	2	1	2.0		
2	24	22	2	1	2.0		
3	24	22	2	1	2.0		
4	24	22	2	1	2.0		
	l	1		1			

Client: Treetop Development, Test Hole No.: PT-2/SPP-2

LLC

Project: Proposed Industrial **Date:** 3/2/2022

Warehouse

Location: Cornwall, NY **Weather:** Clear 40°F

Surface Eleva		0.0 ft.		Test Depth: 3 ft.			
Reading No.		er Level ches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)		
1	24	19	5	1	5.0		
2	24	19	5	1	5.0		
3	24	19	5	1	5.0		
4	24	19	5	1	5.0		
	1	1	1	1	1		

Client: Treetop Development, Test Hole No.: PT-3/SPP-3

LLC

Project: Proposed Industrial **Date:** 3/1/2022

Warehouse

Location: Cornwall, NY **Weather:** Clear 40°F

Surface Elevat	tion: 222	.0 ft.	Test Depth: 4 ft.			
Reading No.	Water Le	vel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)	
1	24	21.5	2.5	1	2.5	
2	24	21.5	2.5	1	2.5	
3	24	21.5	2.5	1	2.5	
4	24	21.5	2.5	1	2.5	

Client: Treetop Development, Test Hole No.: PT-4/SPP-4

LLC

Project: Proposed Industrial **Date:** 3/2/2022

Warehouse

Location: Cornwall, NY **Weather:** Clear 40°F

Surface Elevat	tion: 230	0.0 ft.		Test Depth: 3 ft.			
Reading No.	Water Le	evel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)		
1	24	23.5	0.5	1	0.5		
2	24	23.5	0.5	1	0.5		
3	24	23.5	0.5	1	0.5		
4	24	23.5	0.5	1	0.5		
	<u> </u>	1					

Client: Treetop Development, Test Hole No.: PT-5/SPP-5

LLC

Project: Proposed Industrial **Date:** 3/2/2022

Warehouse

Location: Cornwall, NY **Weather:** Clear 40°F

Surface Elevat	tion: 224	.0 ft.		Test Depth: 2 ft.			
Reading No.	Water Le	evel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)		
1	24	23.9	0.1	1	0.1		
2	24	23.9	0.1	1	0.1		
3	24	23.9	0.1	1	0.1		
4	24	23.9	0.1	1	0.1		
		<u> </u>	<u> </u>	<u> </u>			

Client: Treetop Development, Test Hole No.: PT-6/SPP-6

LLC

Project: Proposed Industrial **Date:** 3/2/2022

Warehouse

Location: Cornwall, NY **Weather:** Clear 40°F

Surface Elevat	tion: 229	0.0 ft.		Test Depth: 1.5 ft.			
Reading No.	Water Le	evel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)		
1	24	23.9	0.1	1	0.1		
2	24	23.9	0.1	1	0.1		
3	24	23.9	0.1	1	0.1		
4	24	23.9	0.1	1	0.1		
		L	I	I	1		

Client: Treetop Development, Test Hole No.: PT-7/SPP-7

LLC

Project: Proposed Industrial **Date:** 3/3/2022

Warehouse

Location: Cornwall, NY **Weather:** Clear 40°F

Surface Elevat	tion: 231	.0 ft.		Test Depth: 3 ft.			
Reading No.	Water Le	vel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)		
1	24	23.9	0.1	1	0.1		
2	24	23.9	0.1	1	0.1		
3	24	23.9	0.1	1	0.1		
4	24	23.9	0.1	1	0.1		
	I	1		l	1		

Client: Treetop Development, Test Hole No.: PT-8/SPP-8

LLC

Project: Proposed Industrial **Date:** 3/2/2022

Warehouse

Location: Cornwall, NY **Weather:** Clear 40°F

Surface Elevat	tion: 212	.0 ft.		Test Depth: 2 ft.			
Reading No.	Water Le	vel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)		
1	24	23.8	0.2	1	0.2		
2	24	23.8	0.2	1	0.2		
3	24	23.8	0.2	1	0.2		
4	24	23.8	0.2	1	0.2		
	l	1	1				

Client: Treetop Development, Test Hole No.: PT-9/SPP-9

LLC

Project: Proposed Industrial **Date:** 3/2/2022

Warehouse

Location: Cornwall, NY **Weather:** Clear 40°F

Surface Elevat	ion: 211	.0 ft.		Test Depth: 3.0 ft.			
Reading No.	Water Le	evel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)		
1	24	23.9	0.1	1	0.1		
2	24	23.9	0.1	1	0.1		
3	24	23.9	0.1	1	0.1		
4	24	23.9	0.1	1	0.1		
	<u> </u>	1	I	l			

Client: Treetop Development, Test Hole No.: PT-10/SPP-10

LLC

Project: Proposed Industrial **Date:** 3/5/2022

Warehouse

Location: Cornwall, NY **Weather:** Clear 40°F

Surface Elevat	tion: 216	5.0 ft.		Test Depth: 4 ft.			
Reading No.	Water Le	evel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)		
1	24	23.9	0.1	1	0.1		
2	24	23.9	0.1	1	0.1		
3	24	23.9	0.1	1	0.1		
4	24	23.9	0.1	1	0.1		
			1	<u> </u>	<u> </u>		

Client: Treetop Development, Test Hole No.: PT-11/SPP-11

LLC

Project: Proposed Industrial **Date:** 3/3/2022

Warehouse

Location: Cornwall, NY **Weather:** Clear 40°F

Surface Elevat	tion: 200	0.0 ft.		Test Depth: 2 ft.			
Reading No.	Water Le	evel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)		
1	24	23.7	0.3	1	0.3		
2	24	23.7	0.3	1	0.3		
3	24	23.7	0.3	1	0.3		
4	24	23.7	0.3	1	0.3		
	l		1	1	1		

Client: Treetop Development, Test Hole No.: PT-12/SPP-12

LLC

Project: Proposed Industrial **Date:** 3/3/2022

Warehouse

Location: Cornwall, NY **Weather:** Clear 40°F

Surface Elevat	tion: 189	.0 ft.	Test Depth: 3 ft.				
Reading No.	Water Le Start	vel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)		
1	24	19.0	5.0	1	5.0		
2	24	19.0	5.0	1	5.0		
3	24	19.0	5.0	1	5.0		
4	24	19.0	5.0	1	5.0		

Client: Treetop Development, Test Hole No.: PT-13/SPP-13

LLC

Project: Proposed Industrial **Date:** 3/3/2022

Warehouse

Location: Cornwall, NY **Weather:** Clear 40°F

Surface Elevat	tion: 210	.0 ft.	Test Depth: 1.5 ft.		
Reading No.	Water Le	vel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24	23.9	0.1	1	0.1
2	24	23.9	0.1	1	0.1
3	24	23.9	0.1	1	0.1
4	24	23.9	0.1	1	0.1
	I	<u> </u>			

Client: Treetop Development, Test Hole No.: PT-14/SPP-14

LLC

Project: Proposed Industrial **Date:** 3/4/2022

Warehouse

Location: Cornwall, NY **Weather:** Clear 40°F

Surface Elevat	tion: 193	5.0 ft.	Test Depth: 4 ft.		
Reading No.	Water Le	evel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24	24	0	1	0
2	24	24	0	1	0
3	24	24	0	1	0
4	24	24	0	1	0
	L		1	1	1

Client: Treetop Development, Test Hole No.: PT-15/SPP-15

LLC

Project: Proposed Industrial **Date:** 3/5/2022

Warehouse

Location: Cornwall, NY **Weather:** Clear 40°F

Surface Elevation: 203.0 ft.				Test Depth: 2 ft.			
Reading No.	Water Le Start	evel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)		
1	24	23.5	0.5	1	0.5		
2	24	23.5	0.5	1	0.5		
3	24	23.5	0.5	1	0.5		
4	24	23.5	0.5	1	0.5		

Client: Treetop Development, Test Hole No.: PT-16/SPP-16

LLC

Project: Proposed Industrial **Date:** 3/7/2022

Warehouse

Location: Cornwall, NY **Weather:** Clear 40°F

Surface Elevation: 207.0 ft.				Test Depth: 3 ft.			
Reading No.	Water Le	evel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)		
1	24	23.9	0.1	1	0.1		
2	24	23.9	0.1	1	0.1		
3	24	23.9	0.1	1	0.1		
4	24	23.9	0.1	1	0.1		

Client: Treetop Development, Test Hole No.: PT-17/SPP-17

LLC

Project: Proposed Industrial **Date:** 3/7/2022

Warehouse

Location: Cornwall, NY **Weather:** Clear 40°F

Surface Elevat	tion: 197	'.0 ft.	Test Depth: 4 ft.				
Reading No.	Water Le	evel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)		
1	24	23	1	1	1.0		
2	24	23	1	1	1.0		
3	24	23	1	1	1.0		
4	24	23	1	1	1.0		

Client: Treetop Development, Test Hole No.: PT-18/SPP-18

LLC

Project: Proposed Industrial **Date:** 3/7/2022

Warehouse

Location: Cornwall, NY **Weather:** Clear 40°F

Surface Elevat	tion: 191	.0 ft.	Test Depth: 4 ft.				
Reading No.	Water Le	evel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)		
1	24	23.5	0.5	1	0.5		
2	24	23.5	0.5	1	0.5		
3	24	23.5	0.5	1	0.5		
4	24	23.5	0.5	1	0.5		

Client: Treetop Development, Test Hole No.: PT-19/SPP-19

LLC

Project: Proposed Industrial **Date:** 3/22/2022

Warehouse

Location: Cornwall, NY **Weather:** Clear 40°F

Surface Elevation: 140.0 ft.			Test Depth: 4 ft.		
Reading No.	Water Le	vel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24	20	4.0	1	4.0
2	24	20	4.0	1	4.0
3	24	20	4.0	1	4.0
4	24	20	4.0	1	4.0
			1	1	1

Client: Treetop Development, Test Hole No.: PT-20/SPP-20

LLC

Project: Proposed Industrial **Date:** 3/22/2022

Warehouse

Location: Cornwall, NY **Weather:** Clear 40°F

Surface Elevat	tion: 143		Test Depth: 2 ft.				
Reading No.		vel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)		
1	24	23.5	0.5	1	0.5		
2	24	23.5	0.5	1	0.5		
3	24	23.5	0.5	1	0.5		
4	24	23.5	0.5	1	0.5		

Client: Treetop Development, Test Hole No.: PT-21/SPP-21

LLC

Project: Proposed Industrial **Date:** 3/22/2022

Warehouse

Location: Cornwall, NY **Weather:** Clear 40°F

Surface Elevation: 152 ft.				Test Depth: 2 ft.		
Reading No.	Water Le Start	evel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)	
1	24	21	3	1	3.0	
2	24	21	3	1	3.0	
3	24	21	3	1	3.0	
4	24	21	3	1	3.0	

Client: Treetop Development, Test Hole No.: PT-22/SPP-22

LLC

Project: Proposed Industrial **Date:** 3/22/2022

Warehouse

Location: Cornwall, NY **Weather:** Clear 40°F

Surface Elevat	tion: 145	ft.	Test Depth: 2 ft.				
Reading No.	Water Le	vel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)		
1	24	23.50	0.50	1	0.50		
2	24	23.50	0.50	1	0.50		
3	24	23.50	0.50	1	0.50		
4	24	23.50	0.50	1	0.50		

Client: Treetop Development, Test Hole No.: PT-23/SPP-23

LLC

Project: Proposed Industrial **Date:** 3/22/2022

Warehouse

Location: Cornwall, NY **Weather:** Clear 40°F

Surface Elevat	2803-99- tion: 140		Test Depth/Elevation: 4 ft.			
Reading No.	Water Le	evel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)	
1	24	20.5	3.5	1	3.5	
2	24	20.5	3.5	1	3.5	
3	24	20.5	3.5	1	3.5	
4	24	20.5	3.5	1	3.5	

Client: Treetop Development, Test Hole No.: PT-24/SPP-24

LLC

Project: Proposed Industrial **Date:** 3/21/2022

Warehouse

Location: Cornwall, NY **Weather:** Clear 40°F

Surface Elevat	2803-99- tion: 137		Test Depth/Elevation: 4 ft.			
Reading No.	Water Le	evel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)	
1	24	18	6	24	6.0	
2	24	18	6	24	6.0	
3	24	18	6	24	6.0	
4	24	18	6	24	6.0	
	I	l	1	1	I	

Client: Treetop Development, Test Hole No.: PT-25/SPP-25

LLC

Project: Proposed Industrial **Date:** 3/21/2022

Warehouse

Location: Cornwall, NY **Weather:** Clear 40°F

Surface Elevat	ion: 136		Test Depth/Elevation: 2 ft.		
Reading No.	Water Le Start	evel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24	21.5	2.5	1	2.5
2	24	21.5	2.5	1	2.5
3	24	21.5	2.5	1	2.5
4	24	21.5	2.5	1	2.5
	<u> </u>	<u> </u>		<u> </u>	1

Client: Treetop Development, LLC Test Hole No.: PT-101/SPP-101

Project: Proposed Industrial Warehouse

Date: 11/11/2022

Location: Cornwall, NY

Weather: Cloudy 65 F

Surface Elevation: 220.0 ft.			Tes		
Reading No.	Water Lev Start	vel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24.0	23.50	0.5	1	0.50
2	24.0	23.75	0.25	1	0.25
3	24.0	23.75	0.25	1	0.25
4	24.0	23.75	0.25	1	0.25

Client: Treetop Development, LLC Test Hole No.: PT-102/SPP-102

Project: Proposed Industrial Warehouse **Date:** 11/11/2022

Location: Cornwall, NY Weather: Cloudy 65 F

Surface Elevation: 224.0 ft			Tes		
Reading No.	Water Lev Start	vel (Inches) Finish	- Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24.0	22.75	1.25	1	1.25
2	24.0	23	1.0	1	1.0
3	24.0	23	1.0	1	1.0
4	24.0	23	1.0	1	1.0

Client: Treetop Development, LLC Test Hole No.: PT-103/SPP-103

Project: Proposed Industrial WarehouseDate:11/11/2022Location: Cornwall, NYWeather:Cloudy 65 F

Project No.: 2803-99-012E Project Manager: F. Van Cleve

Surface Elevation: 228.0 ft Test Depth: 2.0 ft

Surface Elevation: 228.0 ft			Test Depth: 2.0 ft		
Reading No.	Water Lev Start	rel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24	23.25	0.75	1	0.75
2	24	23.5	0.50	1	0.50
3	24	23.5	0.50	1	0.50
4	24	23.5	0.50	1	0.50

Client: Treetop Development, LLC Test Hole No.: PT-104/SPP-104

Project: Proposed Industrial Warehouse

Date: 11/10/2022

Location: Cornwall, NY

Weather: Cloudy 62 F

Project No.: 2803-99-012E Project Manager: F. Van Cleve

Surface Elevation: 222.0 ft. Test Depth: 2.0 ft

Surface Elevation: 222.0 ft.			Test Depth: 2.0 ft		
Reading No.	Water Lev Start	rel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24	21	3	1	3
2	24	21.25	2.75	1	2.75
3	24	21.25	2.75	1	2.75
4	24	21.25	2.75	1	2.75

Client: Treetop Development, LLC Test Hole No.: PT-105/SPP-105

Project: Proposed Industrial Warehouse

Date: 11/10/2022

Location: Cornwall, NY

Weather: Cloudy 62 F

Project No.: 2803-99-012E Project Manager: F. Van Cleve

Surface Elevation: 222.0 ft Test Depth: 1.0 ft

Surface Elevation: 222.0 ft			Tes		
Reading No.	Water Lev Start	vel (Inches) Finish	- Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24	2	22	1	22
2	24	2	22	1	22
3	24	3	21	1	21
4	24	3.5	20.5	1	20.5

Client: Treetop Development, LLC Test Hole No.: PT-106/SPP-106

Project: Proposed Industrial Warehouse

Date: 11/11/2022

Location: Cornwall, NY

Weather: Cloudy 65 F

Project No.: 2803-99-012E Project Manager: F. Van Cleve

Surface Elevation: 219.0 ft Test Depth: 1.2 ft

Surface Elevation: 219.0 ft			Tes		
Reading No.	Water Lev Start	vel (Inches) Finish	- Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24	0	24	1	24.0
2	24	0	24	1	24.0
3	24	0	24	1	24.0
4	24	0	24	1	24.0

Client: Treetop Development, LLC **Test Hole No.:** PT-107/SPP-107

Project: Proposed Industrial Warehouse **Date:** 11/14/2022 Location: Cornwall, NY Weather: Sunny 40 F

Surface Elevation: 224.0 ft.			Test Depth: 1.0 ft.		
Reading No.	Water Lev Start	vel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24	23.9	0.1	1	0.1
2	24	23.9	0.1	1	0.1
3	24	23.9	0.1	1	0.1
4	24	23.9	0.1	1	0.1

Client: Treetop Development, LLC Test Hole No.: PT-108/SPP-108

Project: Proposed Industrial WarehouseDate:11/14/2022Location: Cornwall, NYWeather:Sunny 42 F

Project No.: 2803-99-012E Project Manager: F. Van Cleve

Surface Elevation: 222.0 ft Test Depth: 2.0 ft

Surface Elevation: 222.0 ft			Test Depth: 2.0 ft		
Reading		vel (Inches)	Water Level Fall	Time Interval	Rate of Flow
No.	Start	Finish	(Inches)	(Hours)	(Inches/ Hour)
1	24	23.75	0.25	1	0.25
2	24	23.75	0.25	1	0.25
3	24	23.75	0.25	1	0.25
4	24	23.75	0.25	1	0.25
	<u>'</u>	<u>'</u>	,		•

Client: Treetop Development, LLC Test Hole No.: PT-109/SPP-109

Project: Proposed Industrial WarehouseDate:11/14/2022Location: Cornwall, NYWeather:Sunny 42 F

Surface Elevation:	214.0 ft	Test Depth: 2.0 ft
---------------------------	----------	--------------------

Surface Elevation: 214.0 ft			Test Depth: 2.0 ft		
Reading No.	Water Lev Start	vel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24	23.5	0.5	1	0.5
2	24	23.6	0.4	1	0.4
3	24	23.6	0.4	1	0.4
4	24	23.6	0.4	1	0.4
			<u>, </u>		

Client: Treetop Development, LLC Test Hole No.: PT-110/SPP-110

Project: Proposed Industrial WarehouseDate:11/14/2022Location: Cornwall, NYWeather:Cloudy 38 F

Project No.: 2803-99-012E Project Manager: F. Van Cleve

Surface Elevation: 216.0 ft Test Depth: 1.7 ft.

Surface Elevation: 216.0 ft			Test Depth: 1.7 ft.		
Reading No.	Water Lev Start	el (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24	23.75	0.25	1	0.25
2	24	23.75	0.25	1	0.25
3	24	23.75	0.25	1	0.25
4	24	23.75	0.25	1	0.25
	L	ı	1		1

Client: Treetop Development, LLC Test Hole No.: PT-111/SPP-111

Project: Proposed Industrial Warehouse Date: 11/16/2022

Location: Cornwall, NYWeather:Cloudy 43 FProject No.: 2803-99-012EProject Manager:F. Van Cleve

Surface Elevation: 214.0 ft. Test Depth: 1.0 ft.

Surface Elevation: 214.0 ft.			Test Depth: 1.0 ft.		
Reading No.	Water Lev Start	vel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24	23.50	0.5	1	0.5
2	24	23.6	0.4	1	0.4
3	24	23.6	0.4	1	0.4
4	24	23.6	0.4	1	0.4
		<u> </u>	<u>'</u>		

Client: Treetop Development, LLC Test Hole No.: PT-112/SPP-112

Project: Proposed Industrial Warehouse **Date:** 11/16/2022

Location: Cornwall, NY Weather: Cloudy 43 F

Surface Elevation: 211.0 ft.			Tes		
Reading No.	Water Lev Start	vel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24	23.75	0.25	1	0.25
2	24	23.75	0.25	1	0.25
3	24	23.75	0.25	1	0.25
4	24	23.75	0.25	1	0.25
			,		

Client: Treetop Development, LLC Test Hole No.: PT-113/SPP-113

Project: Proposed Industrial Warehouse **Date:** 11/16/2022

Location: Cornwall, NY Weather: Cloudy 43 F

Surface Elevation: 208.0 ft.			Test Depth: 2.7 ft.		
Reading		vel (Inches)	Water Level Fall	Time Interval	Rate of Flow
No.	Start	Finish	(Inches)	(Hours)	(Inches/ Hour)
1	24	23.9	0.1	1	0.1
2	24	24	0.0	1	0.0
3	24	24	0.0	1	0.0
4	24	24	0.0	1	0.0

Client: Treetop Development, LLC Test Hole No.: PT-114/SPP-114

Project: Proposed Industrial Warehouse **Date:** 11/16/2022

Location: Cornwall, NY Weather: Cloudy 43 F

Surface Elev	vation: 20	6.0 ft.	Tes	t Depth: 1.8 ft	
Reading No.	Water Lev Start	vel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24	23.9	0.1	1	0.1
2	24	23.9	0.1	1	0.1
3	24	23.9	0.1	1	0.1
4	24	24	0.0	1	0.1
					•

Client: Treetop Development, LLC Test Hole No.: PT-115/SPP-115

Project: Proposed Industrial Warehouse

Date: 11/17/2022

Location: Cornwall, NY

Weather: Cloudy 43 F

Project No.: 2803-99-012E Project Manager: F. Van Cleve

Surface Elevation: 206.0 ft. Test Depth: 1.5 ft.

Surface Elevation: 206.0 ft.			Test Depth: 1.5 ft.		
Reading No.	Water Lev Start	vel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24	21	3.0	1	3.0
2	24	21	3.0	1	3.0
3	24	21.25	2.75	1	2.75
4	24	21.25	2.75	1	2.75
	L	ı	1		'

Client: Treetop Development, LLC Test Hole No.: PT-116/SPP-116

Project: Proposed Industrial WarehouseDate:11/17/2022Location: Cornwall, NYWeather:Sunny 33 F

Project No.: 2803-99-012E Project Manager: F. Van Cleve

Surface Elevation: 197.0 ft. Test Depth: 4.25 ft.

rt Finish 1 0 1 0 1 0	Water Level Fall (Inches) 24 24 24	Time Interval (Hours) 1 1	Rate of Flow (Inches/ Hour) 24.0 24.0
4 0 4 0	24	1	24.0
4 0	24		
		1	24.0
4 0	24		
	24	1	24.0

Client: Treetop Development, LLC Test Hole No.: PT-117/SPP-117

Project: Proposed Industrial WarehouseDate:11/17/2022Location: Cornwall, NYWeather:Sunny 33 F

Project No.: 2803-99-012E Project Manager: F. Van Cleve

Surface Elevation: 193.0 ft. Test Depth: 3.9 ft.

Surface Elevation: 193.0 ft.			Test Depth: 3.9 ft.		
Reading No.	Water Lev Start	vel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24	0	24	1	24.0
2	24	0	24	1	24.0
3	24	0	24	1	24.0
4	24	0	24	1	24.0
]		

Client: Treetop Development, LLC Test Hole No.: PT-118/SPP-118

Project: Proposed Industrial WarehouseDate:11/21/2022Location: Cornwall, NYWeather:Sunny 33 F

Project No.: 2803-99-012E Project Manager: F. Van Cleve

Surface Elevation: 187.0 ft. Test Depth: 3.4 ft.

Surface Elevation: 187.0 ft.			Test Depth: 3.4 ft.		
Reading No.	Water Lev Start	vel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24	0	24	1	24.0
2	24	0	24	1	24.0
3	24	0	24	1	24.0
4	24	0	24	1	24.0
	<u> </u>	<u> </u>			

Client: Treetop Development, LLC Test Hole No.: PT-121/SPP-121

Project: Proposed Industrial Warehouse Date: 11/18/2022

Location: Cornwall, NYWeather:Sunny 38 FProject No.: 2803-99-012EProject Manager:F. Van Cleve

Surface Elevation: 142.0 ft. Test Depth: 4.0 ft.

Surface Elevation: 142.0 ft.			Test Depth: 4.0 ft.		
Reading No.	Water Lev Start	el (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24	23.5	0.5	1	0.5
2	24	23.75	0.25	1	0.25
3	24	23.75	0.25	1	0.25
4	24	23.75	0.25	1	0.25
	l .	l .	1		

Client: Treetop Development, LLC Test Hole No.: PT-122/SPP-122

Project: Proposed Industrial Warehouse

Date: 11/22/2022

Location: Cornwall, NY

Weather: Sunny 45 F

Surface Elevation: 140.0 ft.			Test Depth: 2.7 ft.		
Reading No.	Water Lev Start	rel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24	24	0.0	1	0.0
2	24	24	0.0	1	0.0
3	24	24	0.0	1	0.0
4	24	24	0.0	1	0.0

Client: Treetop Development, LLC Test Hole No.: PT-124/SPP-124

Project: Proposed Industrial Warehouse **Date:** 11/23/2022

Location: Cornwall, NY Weather: Sunny 45 F

ation: 16	5.0 ft.	Test Depth: 3.0 ft.		
Water Level (Inches)		- Water Level Fall	Time Interval	Rate of Flow
Start	Finish	(Inches)	(Hours)	(Inches/ Hour)
24	0	24	1	24.0
24	0	24	1	24.0
24	0	24	1	24.0
24	0	24	1	24.0
	Water Lev Start 24 24 24	Water Level (Inches) Start Finish 24 0 24 0 24 0	Water Level (Inches)StartFinishWater Level Fall (Inches)240242402424024	Water Level (Inches) Water Level Fall (Inches) Time Interval (Hours) 24 0 24 1 24 0 24 1 24 0 24 1 24 0 24 1

Client: Treetop Development, LLC Test Hole No.: PT-125/SPP-125

Project: Proposed Industrial Warehouse Date: 11/23/2022

Location: Cornwall, NYWeather:Cloudy 32 FProject No.: 2803-99-012EProject Manager:F. Van Cleve

Surface Elevation: 140.0 ft. Test Depth: 1.3 ft.

Surface Elev	14	0.0 ft.	1 es	Τ	
Reading No.	Water Lev Start	rel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24	0	24	1	24.0
2	24	0	24	1	24.0
3	24	0	24	1	24.0
4	24	0	24	1	24.0

Client: Treetop Development, LLC Test Hole No.: PT-126/SPP-126

Project: Proposed Industrial Warehouse **Date:** 12/15/2022

Location: Cornwall, NYWeather:Sunny 36 FProject No.: 2803-99-012EProject Manager:F. Van Cleve

Surface Elevation: 142.0 ft. Test Depth: 1.2 ft.

ation: 142	.0 ft.	Test Depth: 1.2 ft.		
		Water Level Fall	Time Interval	Rate of Flow
Start	Finish	(Inches)	(Hours)	(Inches/ Hour)
24	24	0	1	0.0
24	24	0	1	0.0
24	24	0	1	0.0
24	24	0	1	0.0
	Water Lev Start 24 24 24	Water Level (Inches) Start Finish 24 24 24 24 24 24	Water Level (Inches)StartFinishWater Level Fall (Inches)242402424024240	Water Level (Inches) Water Level Fall (Inches) Time Interval (Hours) 24 24 0 1 24 24 0 1 24 24 0 1 24 24 0 1

Client: Treetop Development, LLC Test Hole No.: PT-127/SPP-127

Project: Proposed Industrial Warehouse **Date:** 12/15/2022

Location: Cornwall, NY Weather: Sunny 36 F

Surface Elev	vation: 16	6.0 ft.	Test Depth: 4.0 ft.		
Reading No.	Water Lev Start	vel (Inches) Finish	- Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24	0	24	1	24.0
2	24	0	24	1	24.0
3	24	0	24	1	24.0
4	24	0	24	1	24.0
	ı	1			

Client: Treetop Development, LLC Test Hole No.: PT-128/SPP-128

Project: Proposed Industrial Warehouse **Date:** 12/8/2022

Location: Cornwall, NY Weather: Cloudy 32 F

Surface Elevation: 142.0 ft.			Test Depth: 2.5 ft.			
Reading No.	Water Lev Start	vel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)	
1	24	14	10.0	1	10.0	
2	24	14	10.0	1	10.0	
3	24	14	10.0	1	10.0	
4	24	14	10.0	1	10.0	

Client: Treetop Development, LLC Test Hole No.: PT-129/SPP-129

Project: Proposed Industrial Warehouse **Date:** 12/16/2022

Location: Cornwall, NYWeather:Cloudy 37 FProject No.: 2803-99-012EProject Manager:F. Van Cleve

Surface Elevation: 137.0 ft. Test Depth: 4.0 ft.

Surface Elevation: 137.0 ft.			Test Depth: 4.0 ft.		
Reading No.	Water Lev Start	vel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24	0	24	1	24.0
3	24	0	24	1	24.0
3	24	0	24	1	24.0
4	24	0	24	1	24.0
	1	1			1

Client: Treetop Development, LLC Test Hole No.: PT-130/SPP-130

Project: Proposed Industrial WarehouseDate:12/15/2022Location: Cornwall, NYWeather:Sunny 36 F

Project No.: 2803-99-012E Project Manager: F. Van Cleve

Surface Elevation: 137.0 ft. Test Depth: 2.0 ft.

Surface Elev	vation: 13	37.0 ft.	Test Depth: 2.0 ft.		
Reading No.	Water Lev Start	vel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24	23.25	0.75	1	0.75
2	24	23.25	0.75	1	0.75
3	24	23.25	0.75	1	0.75
4	24	23.25	0.75	1	0.75
		l	1		1

Client: Treetop Development, LLC Test Hole No.: PT-131/SPP-131

Project: Proposed Industrial WarehouseDate:12/15/2022Location: Cornwall, NYWeather:Sunny 36 F

Project No.: 2803-99-012E Project Manager: F. Van Cleve

Surface Elevation: 137.0 ft. Test Depth: 4.0 ft.

Surface Elevation: 137.0 ft.			Test Depth: 4.0 ft.		
Reading No.	Water Lev Start	vel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24	0	24	1	24.0
2	24	0	24	1	24.0
3	24	0	24	1	24.0
4	24	0	24	1	24.0
	1	ı			

Client: Treetop Development, LLC Test Hole No.: PT-132/SPP-132

Project: Proposed Industrial WarehouseDate:12/15/2022Location: Cornwall, NYWeather:Sunny 36 F

Project No.: 2803-99-012E Project Manager: F. Van Cleve

Surface Elevation: 137.0 ft Test Denth: 1.3 ft

Surface Elevation: 137.0 ft.			Test Depth: 1.3 ft.		
Reading No.	Water Lev Start	vel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24	23.5	0.5	1	0.50
2	24	23.5	0.5	1	0.50
3	24	23.5	0.5	1	0.50
4	24	23.5	0.5	1	0.50

Client: Treetop Development, LLC **Test Hole No.:** PT-133/SPP-133

Project: Proposed Industrial Warehouse **Date:** 12/15/2022 Location: Cornwall, NY Weather: Sunny 36 F

Project Manager: F. Van Cleve **Project No.:** 2803-99-012E

Surface Elevation: 137.0 ft.			Test Depth: 2.0 ft.			
Reading No.	Water Lev Start	el (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)	
1	24	23	1	1	1.0	
2	24	23	1	1	1.0	
3	24	23	1	1	1.0	
4	24	23	1	1	1.0	
	<u> </u>					

Client: Treetop Development, LLC Test Hole No.: PT-135/SPP-135

Project: Proposed Industrial Warehouse Date: 12/15/2022

Location: Cornwall, NY Weather: Sunny 36 F

Surface Elev	vation: 13	7.0 ft.	Test Depth: 2.0 ft.		
Reading No.	Water Lev Start	vel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24	18	6	1	6.0
2	24	18	6	1	6.0
3	24	18	6	1	6.0
4	24	18	6	1	6.0
	1		1		1

Weather:

Sunny 36 F

Client: Treetop Development, LLC Test Hole No.: PT-136/SPP-136

Project: Proposed Industrial Warehouse Date: 12/15/2022

Project No.: 2803-99-012E Project Manager: F. Van Cleve

Location: Cornwall, NY

Test Depth: 1.3 ft. **Surface Elevation:** 137.0 ft. Water Level (Inches) Water Level Fall **Time Interval** Reading Rate of Flow (Inches) (Hours) Start **Finish** (Inches/ Hour) No. 0.50 1 0.5 1 24 23.5 0.50 1 0.5 2 24 23.5 3 1 0.5 24 23.5 0.50 4 24 23.5 0.50 1 0.5

Weather: Rain 37 F

Client: Treetop Development, LLC Test Hole No.: PT-137/SPP-137

Project: Proposed Industrial Warehouse **Date:** 12/16/2022

Project No.: 2803-99-012E Project Manager: F. Van Cleve

Surface Elevation: 137.0 ft. Test Depth: 2.7 ft.

Location: Cornwall, NY

Surface Elevation: 137.0 ft.			Test Depth: 2.7 ft.		
Reading No.	Water Lev Start	vel (Inches) Finish	Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)
1	24	11	13	1	13.0
2	24	11	13	1	13.0
3	24	10	14	1	13.0
4	24	10	14	1	13.0

INFILTRATION TEST REPORT

Weather: Rain 37 F

Client: Treetop Development, LLC Test Hole No.: PT-138/SPP-138

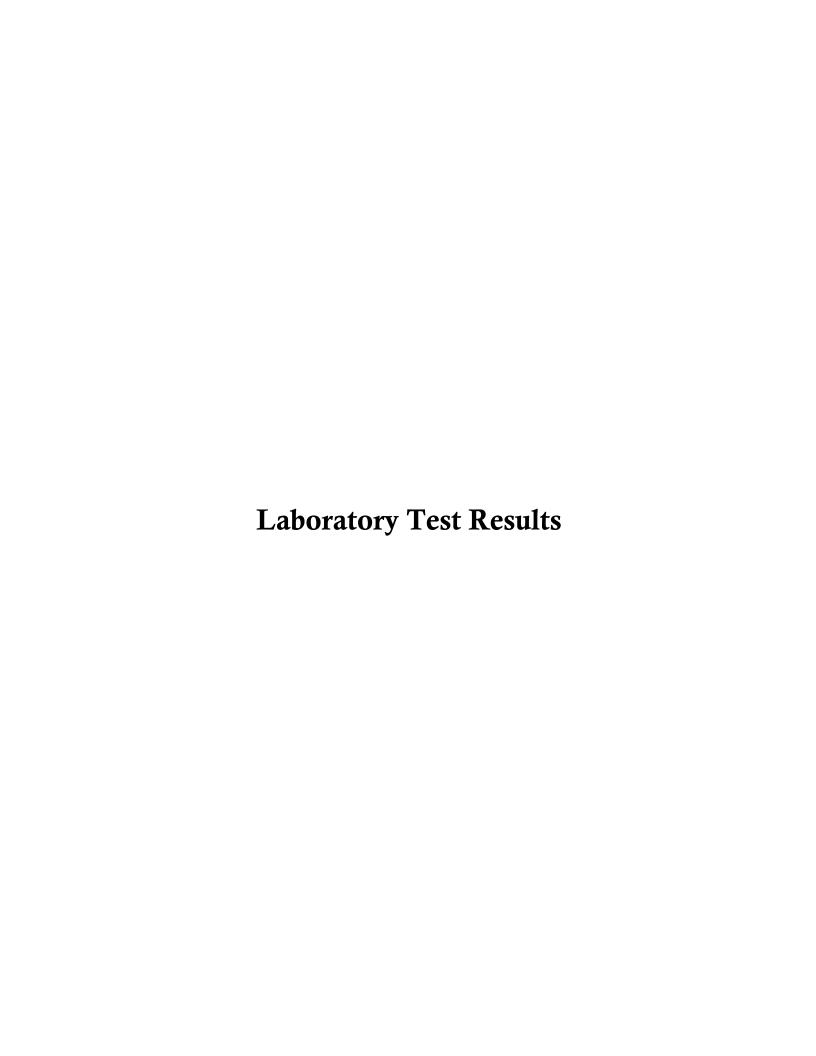
Project: Proposed Industrial Warehouse **Date:** 12/16/2022

Project No.: 2803-99-012E Project Manager: F. Van Cleve

Surface Elevation: 136.0 ft. Test Depth: 2.0 ft.

Location: Cornwall, NY

Surface Elevation: 136.0 ft.			Tes			
Reading No.	Water Level (Inches) Start Finish		Water Level Fall (Inches)	Time Interval (Hours)	Rate of Flow (Inches/ Hour)	
1	24	22.75	1.25	1	1.25	
2	24	22.75	1.25	1	1.25	
3	24	22.75	1.25	1	1.25	
4	24	22.75	1.25	1	1.25	
	I	I	1		1	



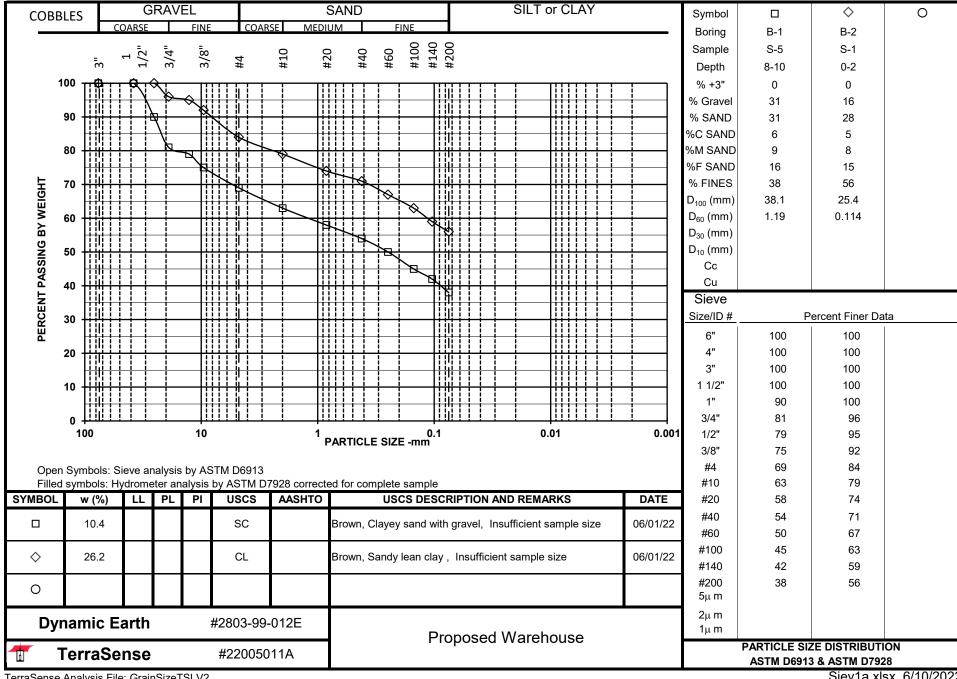
Dynamic Earth #2803-99-012E Proposed Warehouse LABORATORY TESTING DATA SUMMARY

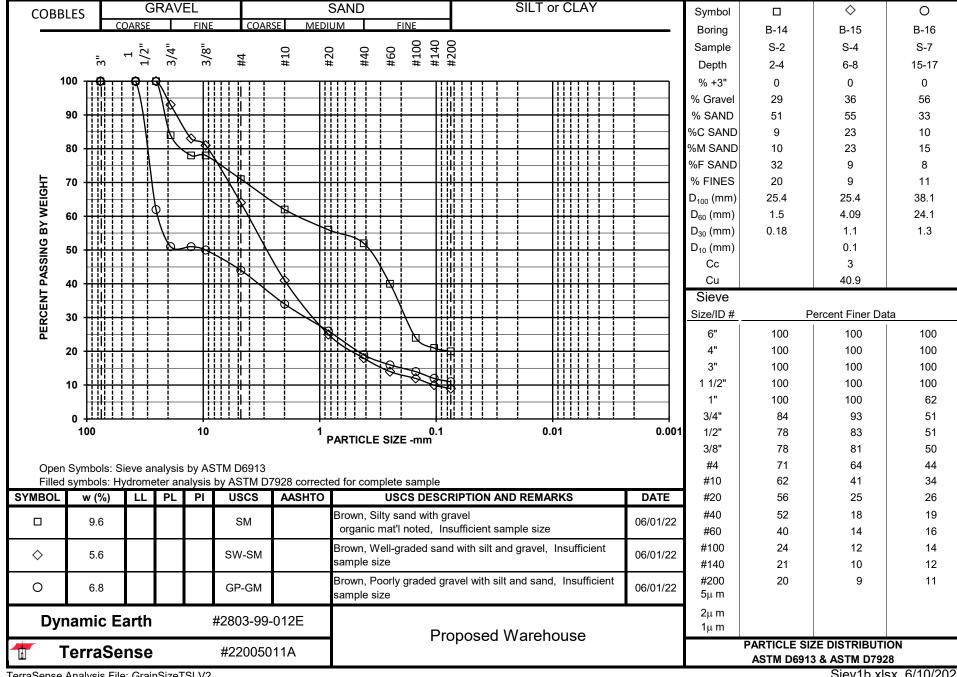
BORING	SAMPLE	DEPTH		IDENTIFICATION TESTS					REMARKS
			WATER	LIQUID	PLASTIC	PLAS.	USCS	SIEVE	
NO.	NO.		CONTENT	LIMIT	LIMIT	INDEX	SYMB.	MINUS	
							(1)	NO. 200	
		(ft)	(%)	(-)	(-)	(-)		(%)	
B-1	S-5	8-10	10.4				SC	38	
B-2	S-1	0-2	26.2				CL	56	
B-3	S-2	2-4	11.1	28	17	11	CL	37	
B-12	S-5	8-10	9.3	25	15	10	SC	46	
B-13	S-4	6-8	9.2	25	15	10	SC	44	
B-14	S-2	2-4	9.6				SM	20	
B-15	S-4	6-8	5.6				SW-SM	9	
B-16	S-7	15-17	6.8				GP-GM	11	
B-17	S-2	2-4	10.3	23	14	9	SC	41	
B-18	S-6	10-12	11.1				SM	13	
B-19	S-3	4-6	10.5				GC	16	

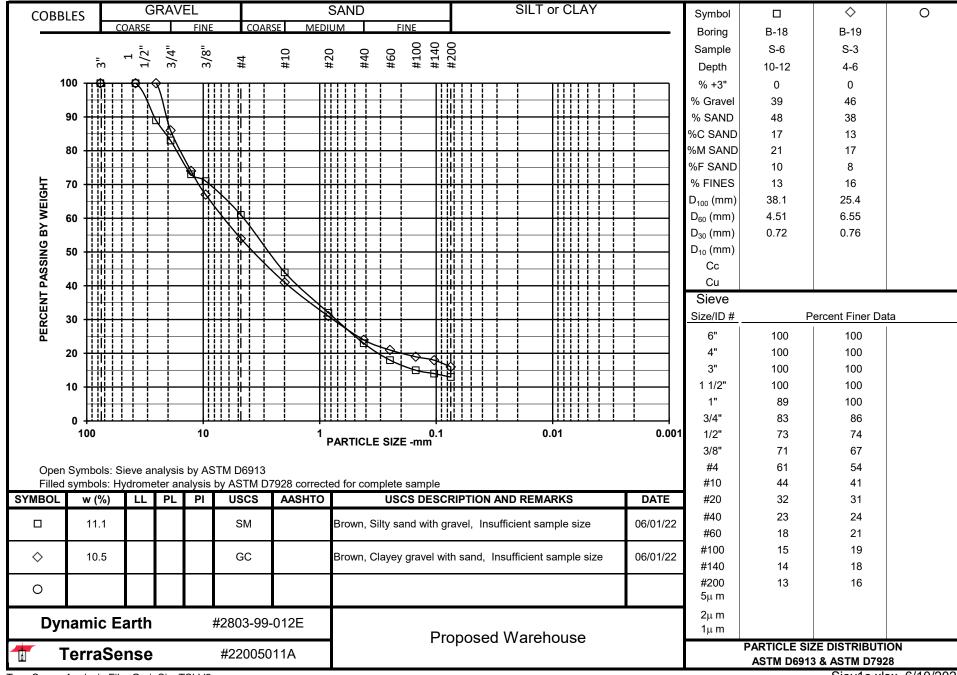
Note: (1) USCS symbol based on visual observation and Sieve and Atterberg limits reported.

Prepared by: NG Reviewed by: CMJ Date: 6/10/2022 TerraSense 45H Commerce Way Totowa, NJ 07512

Project No.: 22005011A File: Indx1.xlsx Page 1 of 1







USDA-NCRS Custom Soil Resource Report of Orange County, NY



Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Orange County, New York



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2 053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Contents

Preface	2
How Soil Surveys Are Made	
Soil Map	
Soil Map	9
Legend	
Map Unit Legend	11
Map Unit Descriptions	
Orange County, New York	
BnB—Bath-Nassau channery silt loams, 3 to 8 percent slopes	13
ErA—Erie gravelly silt loam, 0 to 3 percent slopes	15
MdB—Mardin gravelly silt loam, 3 to 8 percent slopes	16
MNE—Mardin soils, steep	18
SXC—Swartswood and Mardin soils, sloping, very stony	
UF—Udifluvents-Fluvaquents complex, frequently flooded	22
W—Water	24
References	25

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

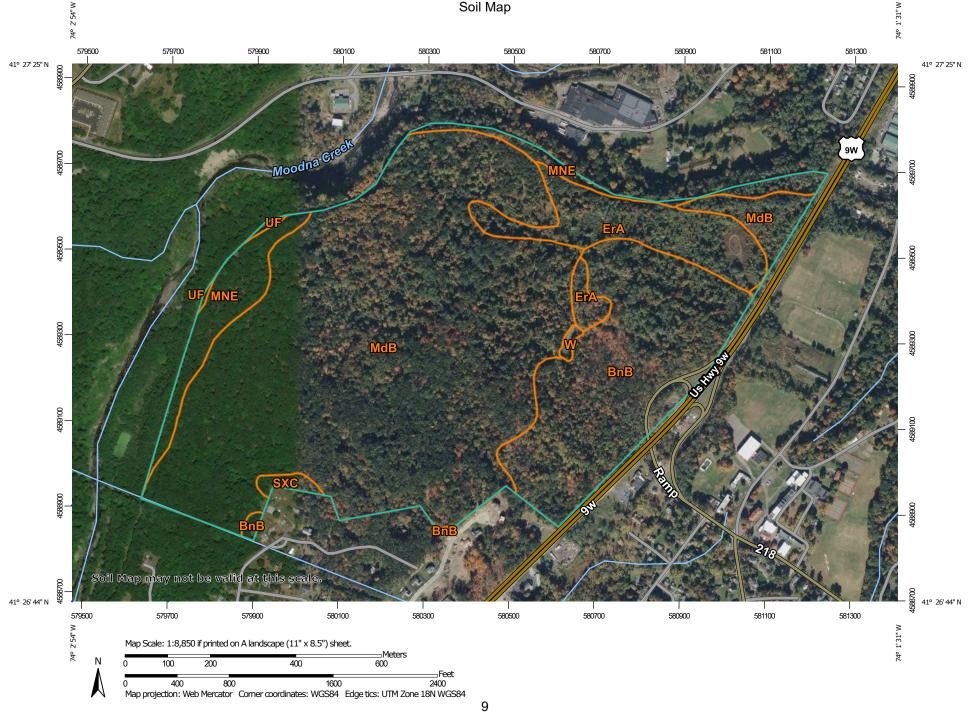
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report Soil Map



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

-

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

ဖ

Blowout

 \boxtimes

Borrow Pit

Ж

Clay Spot

 \Diamond

Closed Depression

Š

Gravel Pit

.

Gravelly Spot

(2)

Landfill

٨

Lava Flow

Marsh or swamp

2

Mine or Quarry

0

Miscellaneous Water

0

Perennial Water
Rock Outcrop

+

Saline Spot

. .

Sandy Spot

_

Severely Eroded Spot

.

Sinkhole

3⊳

Slide or Slip

Ø

Sodic Spot

LEGEND

8

Spoil Area Stony Spot

Ø

Very Stony Spot

Ø

Wet Spot Other

Δ

Special Line Features

Water Features

_

Streams and Canals

Transportation

ransp

Rails

~

Interstate Highways

__

US Routes

 \sim

Major Roads

~

Local Roads

Background

100

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15.800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Orange County, New York Survey Area Data: Version 22, Aug 29, 2021

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Oct 7, 2013—Oct 14, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BnB	Bath-Nassau channery silt loams, 3 to 8 percent slopes	47.5	20.0%
ErA	Erie gravelly silt loam, 0 to 3 percent slopes	19.9	8.4%
MdB	Mardin gravelly silt loam, 3 to 8 percent slopes	153.1	64.5%
MNE	Mardin soils, steep	14.5	6.1%
SXC	Swartswood and Mardin soils, sloping, very stony	1.3	0.5%
UF	Udifluvents-Fluvaquents complex, frequently flooded	0.4	0.2%
W	Water	0.5	0.2%
Totals for Area of Interest		237.1	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not

mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Orange County, New York

BnB—Bath-Nassau channery silt loams, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 9vtn Elevation: 600 to 1,800 feet

Mean annual precipitation: 42 to 52 inches Mean annual air temperature: 46 to 52 degrees F

Frost-free period: 135 to 215 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Bath and similar soils: 50 percent Nassau and similar soils: 30 percent Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Bath

Setting

Landform: Drumlinoid ridges, hills, till plains Landform position (two-dimensional): Summit Landform position (three-dimensional): Crest

Down-slope shape: Convex Across-slope shape: Convex

Parent material: Loamy till derived mainly from gray and brown siltstone,

sandstone, and shale

Typical profile

H1 - 0 to 9 inches: channery silt loam
H2 - 9 to 29 inches: channery silt loam
H3 - 29 to 53 inches: very channery silt loam
H4 - 53 to 57 inches: unweathered bedrock

Properties and qualities

Slope: 3 to 8 percent

Depth to restrictive feature: 22 to 38 inches to fragipan; 40 to 60 inches to lithic

bedrock

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

high (0.00 to 0.20 in/hr)

Depth to water table: About 24 to 30 inches

Frequency of flooding: None Frequency of ponding: None

Available water supply, 0 to 60 inches: Very low (about 2.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2e

Hydrologic Soil Group: C

Ecological site: F140XY030NY - Well Drained Dense Till

Hydric soil rating: No

Description of Nassau

Setting

Landform: Benches, ridges, till plains

Landform position (two-dimensional): Summit Landform position (three-dimensional): Crest

Down-slope shape: Convex Across-slope shape: Convex

Parent material: Channery loamy till derived mainly from local slate or shale

Typical profile

H1 - 0 to 10 inches: channery silt loam
H2 - 10 to 19 inches: very channery silt loam
H3 - 19 to 23 inches: unweathered bedrock

Properties and qualities

Slope: 3 to 8 percent

Depth to restrictive feature: 10 to 20 inches to lithic bedrock

Drainage class: Somewhat excessively drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to

moderately high (0.06 to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Available water supply, 0 to 60 inches: Very low (about 2.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3s

Hydrologic Soil Group: D

Ecological site: F144AY033MA - Shallow Dry Till Uplands

Hydric soil rating: No

Minor Components

Lordstown

Percent of map unit: 9 percent Hydric soil rating: No

Mardin

Percent of map unit: 5 percent

Hydric soil rating: No

Erie

Percent of map unit: 5 percent

Hydric soil rating: No

Rock outcrop

Percent of map unit: 1 percent Hydric soil rating: Unranked

ErA—Erie gravelly silt loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 9vv8 Elevation: 100 to 1,360 feet

Mean annual precipitation: 42 to 52 inches Mean annual air temperature: 46 to 52 degrees F

Frost-free period: 135 to 215 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Erie and similar soils: 75 percent Minor components: 25 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Erie

Setting

Landform: Drumlinoid ridges, hills, till plains

Landform position (two-dimensional): Summit, footslope Landform position (three-dimensional): Base slope

Down-slope shape: Concave Across-slope shape: Linear

Parent material: Loamy till derived from siltstone, sandstone, shale, and limestone

Typical profile

H1 - 0 to 10 inches: gravelly silt loam H2 - 10 to 18 inches: channery silt loam H3 - 18 to 56 inches: channery silt loam H4 - 56 to 70 inches: channery silt loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 10 to 21 inches to fragipan

Drainage class: Somewhat poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to

moderately high (0.06 to 0.20 in/hr)

Depth to water table: About 6 to 18 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Available water supply, 0 to 60 inches: Very low (about 2.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3w

Hydrologic Soil Group: D

Ecological site: F144AY037MA - Moist Dense Till Uplands

Hydric soil rating: No

Minor Components

Wurtsboro

Percent of map unit: 5 percent Hydric soil rating: No

Bath

Percent of map unit: 5 percent Hydric soil rating: No

Mardin

Percent of map unit: 5 percent Hydric soil rating: No

Alden

Percent of map unit: 5 percent Landform: Depressions Hydric soil rating: Yes

Swartswood

Percent of map unit: 5 percent Landform: Depressions Hydric soil rating: No

MdB—Mardin gravelly silt loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2v30j Elevation: 330 to 2,460 feet

Mean annual precipitation: 31 to 70 inches Mean annual air temperature: 39 to 52 degrees F

Frost-free period: 105 to 180 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Mardin and similar soils: 85 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Mardin

Setting

Landform: Hills, mountains

Landform position (two-dimensional): Summit, shoulder Landform position (three-dimensional): Interfluve, side slope

Down-slope shape: Convex Across-slope shape: Convex Parent material: Loamy till

Typical profile

Ap - 0 to 8 inches: gravelly silt loam

Bw - 8 to 15 inches: gravelly silt loam E - 15 to 20 inches: gravelly silt loam Bx - 20 to 72 inches: gravelly silt loam

Properties and qualities

Slope: 3 to 8 percent

Surface area covered with cobbles, stones or boulders: 0.0 percent

Depth to restrictive feature: 14 to 26 inches to fragipan

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.14 in/hr)

Depth to water table: About 13 to 24 inches

Frequency of flooding: None Frequency of ponding: None

Available water supply, 0 to 60 inches: Low (about 3.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2w

Hydrologic Soil Group: D

Ecological site: F144AY008CT - Moist Till Uplands

Hydric soil rating: No

Minor Components

Volusia

Percent of map unit: 5 percent Landform: Hills, mountains

Landform position (two-dimensional): Summit, footslope

Landform position (three-dimensional): Interfluve, base slope, side slope

Down-slope shape: Concave Across-slope shape: Linear Hydric soil rating: No

Lordstown

Percent of map unit: 5 percent Landform: Mountains, hills

Landform position (two-dimensional): Summit, shoulder

Landform position (three-dimensional): Mountaintop, interfluve, crest

Down-slope shape: Convex Across-slope shape: Convex Hydric soil rating: No

Bath

Percent of map unit: 5 percent Landform: Hills, mountains

Landform position (two-dimensional): Shoulder, backslope Landform position (three-dimensional): Interfluve, side slope

Down-slope shape: Concave Across-slope shape: Linear Hydric soil rating: No

MNE—Mardin soils, steep

Map Unit Setting

National map unit symbol: 2v30q Elevation: 330 to 2,460 feet

Mean annual precipitation: 31 to 70 inches
Mean annual air temperature: 39 to 52 degrees F

Frost-free period: 105 to 180 days

Farmland classification: Not prime farmland

Map Unit Composition

Mardin and similar soils: 80 percent Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Mardin

Setting

Landform: Hills, mountains

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Head slope, side slope

Down-slope shape: Concave Across-slope shape: Linear Parent material: Loamy till

Typical profile

A - 0 to 4 inches: gravelly silt loam
Bw - 4 to 15 inches: gravelly silt loam
E - 15 to 20 inches: gravelly silt loam
Bx - 20 to 72 inches: gravelly silt loam

Properties and qualities

Slope: 25 to 35 percent

Surface area covered with cobbles, stones or boulders: 0.0 percent

Depth to restrictive feature: 14 to 26 inches to fragipan

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.14 in/hr)

Depth to water table: About 13 to 24 inches

Frequency of flooding: None Frequency of ponding: None

Available water supply, 0 to 60 inches: Low (about 3.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: D

Ecological site: F144AY008CT - Moist Till Uplands

Hydric soil rating: No

Minor Components

Bath

Percent of map unit: 8 percent Landform: Hills, mountains

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Nose slope, side slope

Down-slope shape: Linear Across-slope shape: Linear Hydric soil rating: No

Lordstown, very stony

Percent of map unit: 7 percent Landform: Mountains, hills

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Mountainflank, nose slope, side slope, free

face

Down-slope shape: Linear Across-slope shape: Linear Hydric soil rating: No

Volusia

Percent of map unit: 5 percent Landform: Hills, mountains

Landform position (two-dimensional): Backslope, footslope Landform position (three-dimensional): Head slope, side slope

Down-slope shape: Concave Across-slope shape: Linear Hydric soil rating: No

SXC—Swartswood and Mardin soils, sloping, very stony

Map Unit Setting

National map unit symbol: 2v30r Elevation: 330 to 2,460 feet

Mean annual precipitation: 31 to 70 inches Mean annual air temperature: 39 to 52 degrees F

Frost-free period: 105 to 180 days

Farmland classification: Not prime farmland

Map Unit Composition

Swartswood, very stony, and similar soils: 41 percent Mardin, very stony, and similar soils: 39 percent

Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Swartswood, Very Stony

Setting

Landform: Hills, till plains

Landform position (two-dimensional): Shoulder Landform position (three-dimensional): Crest

Down-slope shape: Convex Across-slope shape: Convex

Parent material: Loamy till derived mainly from quartzite, conglomerate, and

sandstone

Typical profile

H1 - 0 to 3 inches: gravelly loam

H2 - 3 to 31 inches: gravelly fine sandy loam H3 - 31 to 60 inches: gravelly fine sandy loam

Properties and qualities

Slope: 8 to 15 percent

Surface area covered with cobbles, stones or boulders: 1.6 percent

Depth to restrictive feature: 20 to 36 inches to fragipan

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to

moderately high (0.06 to 0.57 in/hr)

Depth to water table: About 23 to 31 inches

Frequency of flooding: None Frequency of ponding: None

Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: C

Ecological site: F140XY030NY - Well Drained Dense Till

Hydric soil rating: No

Description of Mardin, Very Stony

Setting

Landform: Hills, mountains

Landform position (two-dimensional): Shoulder, backslope Landform position (three-dimensional): Interfluve, side slope

Down-slope shape: Linear Across-slope shape: Linear Parent material: Loamy till

Typical profile

A - 0 to 4 inches: gravelly silt loam
Bw - 4 to 15 inches: gravelly silt loam
E - 15 to 20 inches: gravelly silt loam
Bx - 20 to 72 inches: gravelly silt loam

Properties and qualities

Slope: 8 to 15 percent

Surface area covered with cobbles, stones or boulders: 1.6 percent

Depth to restrictive feature: 14 to 26 inches to fragipan

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.14 in/hr)

Depth to water table: About 13 to 24 inches

Frequency of flooding: None Frequency of ponding: None

Available water supply, 0 to 60 inches: Low (about 3.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: D

Ecological site: F144AY008CT - Moist Till Uplands

Hydric soil rating: No

Minor Components

Wurtsboro, very stony

Percent of map unit: 5 percent Landform: Hills. till plains

Landform position (two-dimensional): Summit Landform position (three-dimensional): Crest

Down-slope shape: Concave Across-slope shape: Convex

Hydric soil rating: No

Bath, very stony

Percent of map unit: 5 percent Landform: Hills, mountains

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Nose slope, side slope

Down-slope shape: Linear Across-slope shape: Linear Hydric soil rating: No

Volusia, very stony

Percent of map unit: 5 percent Landform: Hills, mountains

Landform position (two-dimensional): Footslope, summit

Landform position (three-dimensional): Side slope, interfluve, base slope

Down-slope shape: Concave Across-slope shape: Linear Hydric soil rating: No

Lordstown

Percent of map unit: 5 percent Landform: Mountains, hills

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Mountainflank, nose slope, side slope

Down-slope shape: Linear Across-slope shape: Linear Hydric soil rating: No

UF—Udifluvents-Fluvaquents complex, frequently flooded

Map Unit Setting

National map unit symbol: 9vxb Elevation: 100 to 3.000 feet

Mean annual precipitation: 42 to 52 inches
Mean annual air temperature: 46 to 52 degrees F

Frost-free period: 135 to 215 days

Farmland classification: Not prime farmland

Map Unit Composition

Udifluvents, frequently flooded, and similar soils: 45 percent

Fluvaquents and similar soils: 30 percent

Minor components: 25 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Udifluvents, Frequently Flooded

Setting

Landform: Flood plains

Landform position (two-dimensional): Summit Landform position (three-dimensional): Talf

Down-slope shape: Concave Across-slope shape: Convex

Parent material: Alluvium with a wide range of texture

Typical profile

H1 - 0 to 4 inches: gravelly loam
H2 - 4 to 70 inches: very gravelly sand

Properties and qualities

Slope: 0 to 5 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high

(0.06 to 5.95 in/hr)

Depth to water table: About 24 to 72 inches Frequency of flooding: FrequentNone

Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Available water supply, 0 to 60 inches: Moderate (about 6.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 5w

Hydrologic Soil Group: A Hydric soil rating: No

Description of Fluvaquents

Setting

Landform: Flood plains

Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Dip

Down-slope shape: Concave Across-slope shape: Concave

Parent material: Alluvium with highly variable texture

Typical profile

H1 - 0 to 5 inches: silt loam

H2 - 5 to 70 inches: very gravelly sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to very

high (0.06 to 19.98 in/hr)

Depth to water table: About 0 inches

Frequency of flooding: NoneFrequent

Frequency of ponding: Frequent

Calcium carbonate, maximum content: 15 percent

Available water supply, 0 to 60 inches: Moderate (about 6.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 5w

Hydrologic Soil Group: A/D Hydric soil rating: Yes

Minor Components

Canandaigua

Percent of map unit: 5 percent Landform: Depressions Hydric soil rating: Yes

Humaquepts

Percent of map unit: 5 percent Landform: Swamps, marshes Hydric soil rating: Yes

Palms

Percent of map unit: 5 percent Landform: Marshes, swamps Hydric soil rating: Yes

Wayland

Percent of map unit: 5 percent Landform: Flood plains Hydric soil rating: Yes

Wallkill

Percent of map unit: 5 percent Landform: Flood plains Hydric soil rating: Yes

W-Water

Map Unit Setting

National map unit symbol: 9vxh

Mean annual precipitation: 42 to 52 inches Mean annual air temperature: 46 to 52 degrees F

Frost-free period: 135 to 215 days

Farmland classification: Not prime farmland

Map Unit Composition

Water: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

References

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

National Research Council. 1995. Wetlands: Characteristics and boundaries.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 054262

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 053577

Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 053580

Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.

United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.

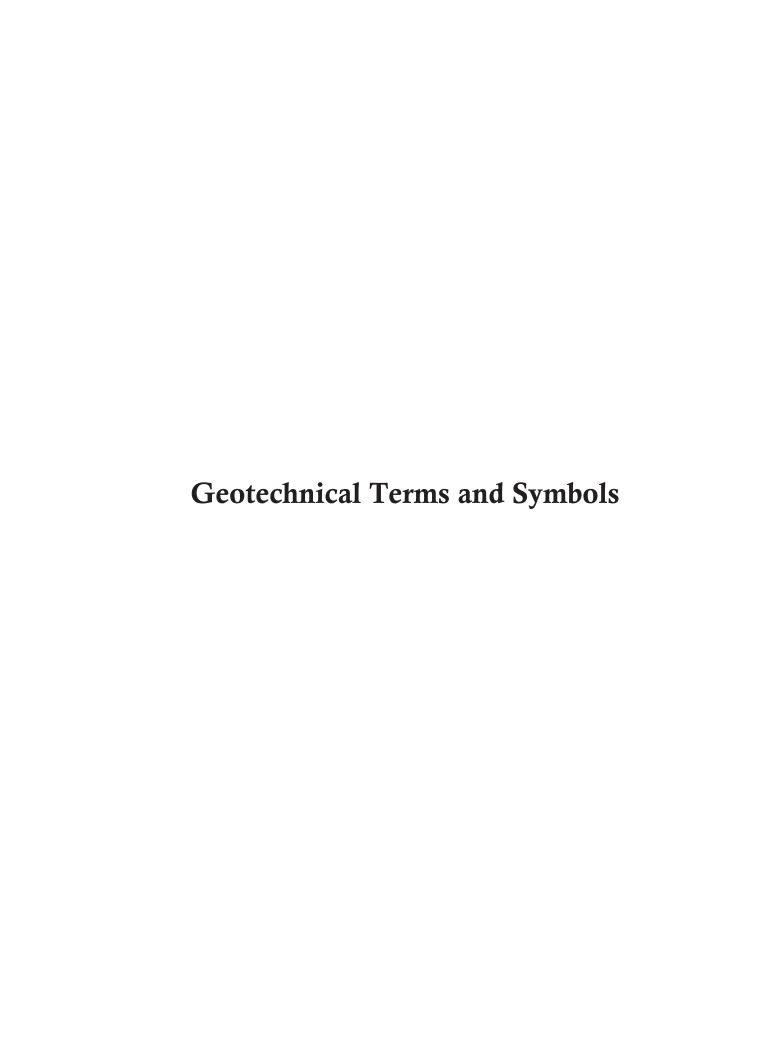
United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2 053374

United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf





245 Main Street; Suite 110 Chester, NJ 07930 908-879-9229; Fax 908-879-0222

GEOTECHNICAL TERMS AND SYMBOLS

SAMPLE IDENTIFICATION

The Unified Soil Classification System is used to identify the soil unless otherwise noted.

SOIL PROPERTY SYMBOLS

N: Standard Penetration Value: Blows per ft. or a 140 lb. hammer falling 30" on a 2" O.D. split-spoon.

Qu: Unconfined compressive strength, TSF.

Qp: Penetrometer value, unconfined compressive strength, TSF.

Mc: Moisture content, %
LL: Liquid limit, %
PI: Plasiticity index, %
δd: Natural dry density, PCF.

▼: Apparent groundwater level at time noted after completion of boring.

_

DRILLING AND SAMPLING SYMBOLS

NE: Not Encountered (Groundwater was not encountered) SS: Split-Spoon – 13/8" I.D., 2" O.D., except where noted

ST: Shelby Tube -3" O.D., except where noted

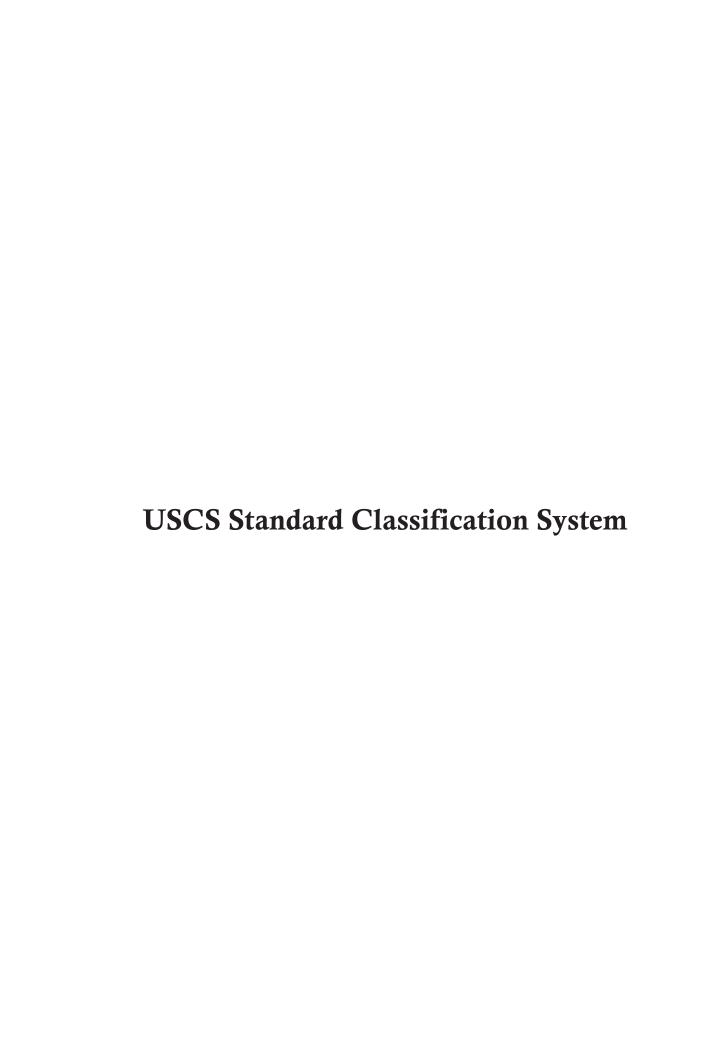
AU: Auger Sample
OB: Diamond Bit
CB: Carbide Bit
WS: Washed Sample

RELATIVE DENSITY AND CONSISTENCY CLASSIFICATION

Term (Non-Cohesive Soils) Standard Penetration Resistance 0-4Very Loose Loose 4-10 10-30 Medium Dense Dense 30-50 Very Dense Over 50 Term (Cohesive Soils) Qu (TSF) Very Soft 0 - 0.25Soft 0.25-0.50 Firm (Medium) 0.50 - 1.001.00-2.00 Stiff Very Stiff 2.00-4.00 Hard 4.00 +

PARTICLE SIZE

Boulders	8 in. +	Coarse Sand	5mm-0.6mm	Silt	0.074mm-0.005mm
Cobbles	8 in. - 3 in.	Medium Sand	0.6mm-0.2mm	Clay	- 0.005mm
Gravel	3 in. – 5mm	Fine Sand	0.2 mm - 0.074 mm		



UNIFIED SOIL CLASSIFICATION SYSTEM - ASTM D2488

MAJOR DIVISION			GROUP SYMBOL	LETTER SYMBOL	GROUP NAME
	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF	GRAVEL WITH *5% FINES	CAC	GW	Well-graded GRAVEL
			0000	GP	Poorly graded GRAVEL
		GRAVEL WITH BETWEEN 5% AND 15% FINES		GW-GM	Well-graded GRAVEL with silt
				GW-GC	Well-graded GRAVEL with clay
	COARSE FRACTION			GP-GM	Poorly graded GRAVEL with silt
	RETAINED ON NO. 4 SIEVE		0	GP-GC	Poorty graded GRAVEL with clay
COARSE		GRAVEL WITH ≥ 15% FINES	0000	GM	Silty GRAVEL
GRAINED SOILS				GC	Clayey GRAVEL
CONTAINS MORE THAN 50% FINES	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SAND WITH *5% FINES		sw	Well-graded SAND
				SP	Poorty graded SAND
		SAND WITH BETWEEN 5% AND 15% FINES SAND WITH ≥ 15% FINES		SW-SM	Well-graded SAND with silt
				SW-SC	Well-graded SAND with clay
				SP-SM	Poorly graded SAND with silt
				SP-SC	Poorly graded SAND with clay
				SM	Silty SAND
# DO				sc	Clayey SAND
	SILT AND CLAY	LIQUID LIMIT LESS THAN 50		ML	Inorganic SILT with low plasticity
FINE				CL	Lean inorganic CLAY with low plasticity
GRAINED SOILS		,		OL	Organic SILT with low plasticity
CONTAINS MORE THAN 50% FINES		LIQUID LIMIT GREATER THAN 50		МН	Elastic inorganic SILT with moderate to high plasticity
3070111123				СН	Fat inorganic CLAY with moderate to high plasticity
				ОН	Organic SILT or CLAY with moderate to high plasticity
H	GHLY ORGANIC SO	ILS	77 77 77 77 77 77 77	PT	PEAT soils with high organic contents

NOTES:

- Sample descriptions are based on visual field and laboratory observations using classification methods of ASTM D2488. Where laboratory data are available, classifications are in accordance with ASTM D2487.
- 2) Solid lines between soil descriptions indicate change in interpreted geologic unit. Dashed lines indicate stratigraphic change within the unit.
- 3) Fines are material passing the U.S. Std. #200 Sieve.