



GeoLogic NY, Inc.

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**SUBSURFACE REPORT
ITHACA TOMPKINS REGIONAL AIRPORT
TERMINAL AND APRON EXPANSIONS
ITHACA, NEW YORK**

Prepared For:

P-W Laboratories, Inc.

Prepared By:

GeoLogic NY, Inc.

May 2014
Project No. 214056-D

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**SUBSURFACE REPORT
Ithaca Tompkins Regional Airport
Terminal and Apron Expansions
Ithaca, New York**

1. INTRODUCTION

This report is an instrument of service of GeoLogic NY, Inc. (GNY). This report presents the results of subsurface drilling activities completed on May 30, 2014 at the Ithaca Tompkins Regional Airport, Ithaca, New York. The scope of services completed was mutually agreed upon by GNY and P-W Laboratories and was outlined in our proposal of May 5, 2014. The services completed included providing personnel and equipment to obtain soil samples and perform a percolation test.

1.1. Purpose

The purpose of the work was to evaluate soil conditions at the site.

1.2. Scope of Services

The services provided by GeoLogic NY, Inc. are outlined below:

Provided equipment and personnel to advance a series of soil borings to collect soil samples and collect data and determine the percolation rate at one location. The soil borings were logged and the soils were visually classified in the field by the driller.

Conducted a percolation test.

Submitted the findings of the sampling in a report.

The site fieldwork was completed between May 28 and May 30, 2014.

2. METHODOLOGY

2.1 Methodology

Borings were advanced using 4 1/4 inch I.D. hollow stem augers.

Representative samples of the overburden were obtained by driving a 2 inch O.D. split spoon sampler into the soil, through and beneath the augers, using a 140 pound hammer free-falling 30 inches (ASTM D 1586).

For the percolation test, one boring was advanced to a depth of five feet. A 4 inch ID PVC casing was set into the boring to 5 feet. Graded silica sand was placed into the 4 inch casing and outside of the casing to act as an anti-scour agent. Potable water was used to presoak and complete the test.

3. FINDINGS

3.1. Site Specific Geologic and Hydrogeologic Conditions

The locations of the borings were selected by a representative of P-W Laboratories. The borings were selected to evaluate subsurface conditions for the Terminal and Apron Expansions.

The soils encountered at the site generally consisted of fill underlain by a brown/gray fine-coarse sand, gravel and silt unit. The material descriptions are presented on the attached Subsurface Logs.

The percolation test showed an average percolation rate of 5.90 minutes per inch.

Auger refusal was encountered in borings B-5, B-6, and C-1 – C4 ranging from 10.7 feet to 17.0 feet below ground surface (bgs).

Upon completion, groundwater was encountered at depths ranging from 2.0 to 9.4 feet bgs. No free water was observed in borings B-4 - B-7.

4. CONCLUSIONS

GNY has completed subsurface investigative work at the Ithaca Tompkins Regional Airport, Ithaca, New York. The conclusions reached in this report are based solely on the observations made and data collected during the course of the study. Should additional information pertaining to the site become available, GNY should be afforded an opportunity to review the information and to make additional conclusions and recommendations as necessary.

The soils encountered at the site generally consisted of fill underlain by a brown/gray fine-coarse sand, gravel and silt unit.

The percolation test showed an average percolation rate of 5.90 minutes per inch.

Auger refusal was encountered in borings B-5, B-6, and C-1 – C4 ranging from 10.7 feet to 17.0 feet below ground surface (bgs).

Upon completion, groundwater was encountered at depths ranging from 2.0 to 9.4 feet bgs. No free water was observed in borings B-4 - B-7.

The Subsurface Logs attached to this report present the observations and mechanical data collected at the site, supplemented by classification of material removed from the borings as determined through visual identification. It is cautioned that the materials removed from the borings represent only a fraction of the total volume of the deposits at the site and may not necessarily be representative of the subsurface conditions between adjacent borings or between the sampled intervals. The data presented on the Subsurface Logs together with the recovered samples will provide a basis for evaluating the character of the subsurface conditions relative to the project. The evaluation must consider all the recorded details and their significance relative to each other.

Often the analysis of hollow stem auger hole data indicate the need for additional testing or sampling procedures to more adequately evaluate the subsurface conditions. Any evaluation of the contents of this report and the recovered samples must be performed by knowledgeable Professionals.

5. LIMITATIONS

In conducting and preparing this work, GeoLogic NY, Inc. observed the ordinary standard of care normally exercised by other consultants at the same time and under similar conditions. No other warranty, expressed or implied is intended.

The conclusions reached in this report do not represent scientific certainties, but rather are probabilities based on our professional judgment. The conclusions made in this report are based solely on the scope of services described herein, and the information obtained during the course of the work.

The observations and data contained in this report are only indicative of the conditions at the date, time and location they were made. Subsurface conditions are inherently transient; therefore, variation with time and location should be expected.

Respectfully Submitted,

GeoLogic NY, Inc.



Forrest Earl
President

APPENDIX A
SUBSURFACE LOGS



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SUBSURFACE LOG

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Ithaca Tompkins Regional Airport
Terminal and Apron Expansions
Ithaca, New York

Boring No.: B-1
Project No.: 214056-D
Date Started: 05/28/14
Date Completed: 05/28/14

Depth (ft)	Sample No.	Blow Count	N-Value	Recovery (ft)	DESCRIPTION	REMARKS	
0		21			Topsoil 0.3'		
1		20	30	1.0	Brown SILT, coarse-fine SAND and GRAVEL fragments, damp, firm		
		10					
		9					
2		9			Brown coarse-fine SAND and GRAVEL, Some Silt, damp, firm		
		8	15	1.1			
		7					
		7					
4		2			similar, saturated		
		6					
3		18	24	0.8			
		12					
6		22				With augers at 4.0', water first encountered at 2.0'.	
		27	61	2.0	Brown SILT, coarse-fine SAND and GRAVEL, damp, very compact	Upon completion, with augers at 4.0', water level at 2.0'.	
		34				Caved at 2.4', no free water observed.	
		34				Backfilled with auger cuttings.	
8	BORING TERMINATED AT 8.0'						
10							

Sampling Method: ASTM D-1586, unless otherwise noted.

Notes: 4 1/4" ID Hollow Stem Augers

Visually Classified by: S. Laramee

File: 214056-D/tech/B-1

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SUBSURFACE LOG

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Ithaca Tompkins Regional Airport
Terminal and Apron Expansions
Ithaca, New York

Boring No.: B-2
Project No.: 214056-D
Date Started: 05/28/14
Date Completed: 05/28/14

Depth (ft)	Sample No.	Blow Count	N-Value	Recovery (ft)	DESCRIPTION	REMARKS
0		2			FILL: Brown medium-coarse SAND and GRAVEL, Some fine Sand and Silt, damp	<p>With augers at 4.0', water first encountered at 2.9'.</p> <p>Upon completion, with augers at 4.0', water level at 2.9'.</p> <p>Caved at 3.3', water level at 3.3'.</p> <p>Backfilled with auger cuttings.</p>
1	6	12	1.5			
	6					
	4					
2					Brown SILT, coarse-fine SAND and GRAVEL, moist, compact	
	11				similar, becomes Gray, saturated, firm	
2	13	28	1.6			
	15					
4					similar, saturated, firm	
	9					
	6					
3					similar, saturated, firm	
	6	15	1.5			
	9					
	7					
6					similar, saturated, firm	
	6					
	9	19	1.7			
4	10					
	14					
8	BORING TERMINATED AT 8.0'					
10						

Sampling Method: ASTM D-1586, unless otherwise noted.

Notes: 4 1/4" ID Hollow Stem Augers

Visually Classified by: S. Laramee

File: 214056-D/tech/B-2

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Ithaca Tompkins Regional Airport
Terminal and Apron Expansions
Ithaca, New York

Boring No.: B-3
Project No.: 214056-D
Date Started: 05/28/14
Date Completed: 05/28/14

Depth (ft)	Sample No.	Blow Count	N-Value	Recovery (ft)	DESCRIPTION	REMARKS	
0		2			Topsoil 0.8'		
1		4	8	1.2	FILL: Brown SILT, Some fine Sand, organics, brick, moist		
		4					
		5					
2		13			FILL: Brown coarse-fine SAND, GRAVEL and SILT, damp		
		25	40	1.3			
		15					
		7					
4		4			Gray coarse-fine SAND, GRAVEL and SILT, saturated, firm		
		8	12	0.8			
3		4					
		7					
6		4			similar, saturated	With augers at 4.0', water first encountered at 2.8'.	
		5	12	0.4		Upon completion, with augers at 4.0', water level at 2.8'.	
4		7				Caved at 3.0', water level at 3.0'.	
		8				Backfilled with auger cuttings.	
8	BORING TERMINATED AT 8.0'						
10							

Sampling Method: ASTM D-1586, unless otherwise noted.

Notes: 4 1/4" ID Hollow Stem Augers

Visually Classified by: S. Laramee

File: 214056-D/tech/B-3

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Ithaca Tompkins Regional Airport
Terminal and Apron Expansions
Ithaca, New York

Boring No.: B-4
Project No.: 214056-D
Date Started: 05/28/14
Date Completed: 05/28/14

Depth (ft)	Sample No.	Blow Count	N-Value	Recovery (ft)	DESCRIPTION	REMARKS	
0		2			Topsoil 0.4'		
		5			FILL: Brown SILT, Some fine Sand, damp		
1		5	10	1.0			
		5					
2		5			similar with Gravel / Cobble fragments, damp		
		5					
2		5	14	0.7			
		9					
		12					
4		12			similar, damp		
		9					
3		5	14	0.7			
		6					
6		10			Brown SILT, coarse-fine SAND and GRAVEL, damp	With augers at 4.0', water first encountered at 7.0'.	
		11				Upon completion, no free water observed.	
4		14	25	0.8	wet at 7.0'	Caved at 2.5'.	
		16				Backfilled with auger cuttings.	
8	BORING TERMINATED AT 8.0'						
10							

Sampling Method: ASTM D-1586, unless otherwise noted.

Notes: 4 1/4" ID Hollow Stem Augers

Visually Classified by: S. Laramee

File: 214056-D/tech/B-4

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Terminal and Apron Expansions
Ithaca, New York

Boring No.: B-5
Project No.: 214056-D
Date Started: 05/28/14
Date Completed: 05/28/14

Depth (ft)	Sample No.	Blow Count	N-Value	Recovery (ft)	DESCRIPTION	REMARKS
0		2			Topsoil 0.8'	
1	8	19	1.5		Brown SILT, coarse-fine SAND and GRAVEL, damp, firm	
2	11				similar, damp	
2	13					
2	9					
2	10	16	0.3			
4	6					
4	4					
4	WH				Gray fine SAND, Some Silt, saturated, loose	
3	3	7	1.5			
3	4					
3	11					
6					similar, saturated	
6	14					
4	20	38	1.2		Brown SILT, coarse-fine SAND and GRAVEL, damp, compact	
4	18					
4	20					
8					similar, damp	With augers at 8.0', water first encountered at 5.2'.
8	15					
5	27	58	1.5			Upon completion, with augers at 11.2', no free water observed.
5	31					
10	26					Caved at 3.9', water level at 3.9'.
10	20				similar, damp	Backfilled with auger cuttings.
10	6	46	-	1.4		
	50/.1					
AUGER REFUSAL AT 11.2'						
12						

Sampling Method: ASTM D-1586, unless otherwise noted.

Notes: 4 1/4" ID Hollow Stem Augers

Visually Classified by: S. Laramee

File: 214056-D/tech/B-5

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Terminal and Apron Expansions
Ithaca, New York

Boring No.: B-6
Project No.: 214056-D
Date Started: 05/28/14
Date Completed: 05/28/14

Depth (ft)	Sample No.	Blow Count	N-Value	Recovery (ft)	DESCRIPTION	REMARKS
0		14			Topsoil 0.3'	
1		13	44	1.2	Brown SILT, coarse-fine SAND and GRAVEL, Gravel or Cobble fragments, damp	
2		31				
2		21			similar, damp	
2		15				
2		9	21	1.3		
4		12				
4		16			similar, saturated, firm	
3		4				
3		9	15	1.5		
6		6				
6		4			Brown coarse-fine SAND and GRAVEL, Some Silt, saturated, loose	
4		4				
4		7	11	1.4		
8		11			similar, saturated	
5		20				With augers at 4.0', water first encountered at 3.9'.
5		29	60	1.5		Upon completion, with augers at 10.7', no free water observed.
10		31			Brown SILT and CLAY, Some Gravel, damp, very compact	Caved at 4.6', water level at 4.0'.
10		50/.4			similar, damp	Backfilled with auger cuttings.
6		22	-	0.7		
		50/.2				
AUGER REFUSAL AT 10.7'						
12						

Sampling Method: ASTM D-1586, unless otherwise noted.

Notes: 4 1/4" ID Hollow Stem Augers

Visually Classified by: S. Laramee

File: 214056-D/tech/B-6

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Ithaca Tompkins Regional Airport
Terminal and Apron Expansions
Ithaca, New York

Boring No.: B-7
Project No.: 214056-D
Date Started: 05/28/14
Date Completed: 05/28/14

Depth (ft)	Sample No.	Blow Count	N-Value	Recovery (ft)	DESCRIPTION	REMARKS	
0		4			Topsoil 0.2'		
1		9	21	2.0	Brown SILT, coarse-fine SAND and GRAVEL, damp, firm		
2		12					
2		11			similar, damp, compact		
2		16					
2		25	47	1.5			
2		22					
4		23			similar, becomes wet, firm		
3		11					
3		8	14	1.2			
3		6					
6		7			similar, saturated, firm	Upon completion, no free water observed.	
4		6				Caved at 2.1'.	
4		13	25	1.0		Backfilled with auger cuttings.	
4		12					
4		7					
8	BORING TERMINATED AT 8.0'						
10							

Sampling Method: ASTM D-1586, unless otherwise noted.

Notes: 4 1/4" ID Hollow Stem Augers

Visually Classified by: S. Laramee

File: 214056-D/tech/B-7

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Ithaca Tompkins Regional Airport
Terminal and Apron Expansions
Ithaca, New York

Boring No.: B-10
Project No.: 214056-D
Date Started: 05/28/14
Date Completed: 05/28/14

Depth (ft)	Sample No.	Blow Count	N-Value	Recovery (ft)	DESCRIPTION	REMARKS
0		20			Topsoil 0.2'	
1	19	-	0.4		FILL: Gray Rock fragments, probable Cobbles	
2	10				FILL: Brown SILT, coarse-fine SAND and GRAVEL, damp	
2	8					
2	13	21	1.5			
4	10					
4	15				Brown Cobble or Gravel fragments, Some Silt, saturated	
3	9					
3	9	18	0.3			
6	13					
6	10				Brown coarse-fine SAND and GRAVEL, saturated, firm	With augers at 4.0', water first encountered at 4.9'.
4	8					Upon completion, with augers at 4.0', water level at 4.9'.
4	7	15	1.2			Caved at 2.4', no free water observed.
4	7					Backfilled with auger cuttings.
8	7					
BORING TERMINATED AT 8.0'						
10						

Sampling Method: ASTM D-1586, unless otherwise noted.

Notes: 4 1/4" ID Hollow Stem Augers

Visually Classified by: S. Laramee

File: 214056-D/tech/B-10

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Ithaca Tompkins Regional Airport
Terminal and Apron Expansions
Ithaca, New York

Boring No.: C-1
Project No.: 214056-D
Date Started: 05/29/14
Date Completed: 05/29/14

Depth (ft)	Sample No.	Blow Count	N-Value	Recovery (ft)	DESCRIPTION	REMARKS
0					Asphalt 0.5'	
1	15 22 24	46	1.0		Brown GRAVEL Sub base damp	
2	37 40 29	69	1.8			
4	21				FILL: Gray SILT, fine SAND, Some fine Gravel, damp	
3	17 22 22	44	1.5			
6	13 16 18	34	1.0		Brown fine SAND, Some fine Gravel, Some Silt, damp	
8	14				wet at 8.0'	
5	8 9 6 9	15	1.5			
10	9					
6	12 12	24	1.6			
12	13					With augers at 8.0', water first encountered at 7.8'.
7	9 22 21	43	1.4		Brown SILT, fine SAND, Some fine-coarse GRAVEL, moist	Upon completion, with augers at 17.0', water level at 7.6'.
14	24					Caved at 8.0', water level at 6.0'.
8	17 24 21	45	1.0			Backfilled with auger cuttings and non shrink grout.
16	24					
9	50/.3	-	-		Weathered SHALE	
AUGER REFUSAL AT 17.0'						
18						
20						

Sampling Method: ASTM D-1586, unless otherwise noted.

Notes: 4 1/4" ID Hollow Stem Augers

Visually Classified by: S. Breeds

File: 214056-D/tech/C-1

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Ithaca Tompkins Regional Airport
Terminal and Apron Expansions
Ithaca, New York

Boring No.: C-2
Project No.: 214056-D
Date Started: 05/29/14
Date Completed: 05/29/14

Depth (ft)	Sample No.	Blow Count	N-Value	Recovery (ft)	DESCRIPTION	REMARKS
0					Concrete 1.0'	
2	1	24 18 25 34	43	1.0	Brown GRAVEL Sub base, damp	
4	2	22 14 7 9	21	1.0	No Recovery, stone in shoe	
6	3	11 9 8 7	17	0		
8	4	6 5 6 8	11	1.8	Brown SILT, fine SAND, Some fine-coarse Gravel, moist wet at 8.0'	
10	5	14 7 5 6	12	1.0	similar, wet	
12	6	7 7 22 16	29	1.5	similar with SHALE fragments	With augers at 9.0', water first encountered at 6.8'.
14	7	12 13 9 14	22	0	No Recovery	Upon completion, with augers at 16.5', water level at 9.4'. Caved at 8.0', water level at 6.5'.
16	8	24 18 50/3	-	1.0	AUGER REFUSAL AT 16.5'	Backfilled with auger cuttings and non shrink grout.
18						
20						

Sampling Method: ASTM D-1586, unless otherwise noted.

Notes: 4 1/4" ID Hollow Stem Augers

Visually Classified by: S. Breeds

File: 214056-D/tech/C-2

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Ithaca Tompkins Regional Airport
Terminal and Apron Expansions
Ithaca, New York

Boring No.: C-3
Project No.: 214056-D
Date Started: 05/30/14
Date Completed: 05/30/14

Depth (ft)	Sample No.	Blow Count	N-Value	Recovery (ft)	DESCRIPTION	REMARKS
0					Asphalt 0.5'	
1	6	20	37	1.0	Brown GRAVEL Sub base, damp	
2	17					
2	27				FILL: Brown SILT, fine SAND and GRAVEL, Cobbles, damp	
2	40		-	1.0		
4	50/.3					
3	25					
3	22		34	1.5		
3	12					
3	10					
6	9				Brown SILT, fine SAND, Some fine-coarse GRAVEL, moist	
4	52		81	1.0		
4	29					
4	9					
8	10					
5	5		8	1.0		
5	3					
5	7					
10	4					
6	3		7	0.2		
6	4					
6	7					
12	2					With augers at 18.0', water first encountered at 9.4'.
7	7		15	1.0		Caved at 8.5', water level at 8.0'.
7	8					
7	16					
14	11					Backfilled with auger cuttings and non shrink grout.
8	14		41	1.5		
8	27					
16	50/.3				AUGER REFUSAL AT 16.2'	
18						
20						

Sampling Method: ASTM D-1586, unless otherwise noted.

Notes: 4 1/4" ID Hollow Stem Augers

Visually Classified by: S. Breeds

File: 214056-D/tech/C-3

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Ithaca Tompkins Regional Airport
Terminal and Apron Expansions
Ithaca, New York

Boring No.: C-4
Project No.: 214056-D
Date Started: 05/30/14
Date Completed: 05/30/14

Depth (ft)	Sample No.	Blow Count	N-Value	Recovery (ft)	DESCRIPTION	REMARKS
0					Asphalt	
1	9 21	18	39	1.0	Brown GRAVEL Sub base, damp	
2	25 15 21	14	36	1.8	FILL: Brown SILT, fine SAND, Some fine-coarse Gravel, moist	
3	5 6 6	12	12	1.0	FILL: Brown fine-coarse SAND, little fine gravel, moist	
4	10 9 8	8	17	1.2	Brown SILT, fine SAND, Some fine-coarse Gravel, wet	
5	6 5 6 9	11	11	0.3		
6	10 12 10 12	22	22	1.5	Brown fine-coarse SAND, Some Silt, Some fine-coarse Gravel, wet	With augers at 8.5', water first encountered at 10.0'. Upon completion, with augers at 14.0', water level at 8.7'. Caved at 8.0', water level at 7.0'.
7	21 45	-	-	-		Backfilled with auger cuttings and non shrink grout.
14	50/.4				AUGER REFUSAL AT 14.0'	
16						

Sampling Method: ASTM D-1586, unless otherwise noted.

Notes: 4 1/4" ID Hollow Stem Augers

Visually Classified by: S. Breeds

File: 214056-D/tech/C-4

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SUBSURFACE LOG - Percolation Test

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Ithaca Tompkins Regional Airport
Terminal and Apron Expansions
Ithaca, New York

Boring No.: : IT-1
Project No.: : 214056-D
Date Started: : 05/29/14
Date Completed: : 05/29/14

Depth (ft)	Sample No.	Blow Count	N-Value	Recovery (ft)	DESCRIPTION	REMARKS
0					No Soil Samples Obtained	Next to B-4.
2						
4						
6						
BORING TERMINATED AT 5.0'						

Sampling Method: ASTM D-1586, unless otherwise noted.
Notes: 4 1/4" ID Hollow Stem Augers
Visually Classified by: N/A
File: 214056-D/tech/IT-1

APPENDIX B
PERCOLATION TEST

Percolation Test #1

Performed by: Scott Breeds

Date	Time	Time Interval in Minutes	Measurement in inches	Drop in water level in inches	Percolation rate minutes per inch
05/29/14	3:00 PM	Presoak	0' 0"		
05/30/14	8:10 AM	Filled to Grade	0' 0"		
05/30/14	10:10 AM	120	1' 11"	23"	5.22 min. / inch
05/30/14	12:00 PM	110	2' 5"	16"	6.88 min. / inch

Percolation rate = 5.90 minutes per inch.
(Divided time interval in minutes by the drop in inches).