

Appendix L
Soil Borings Data

**SITE INVESTIGATION AND PERCOLATION
TEST REPORT**

Site Location Butterfield Hospital Municipality Cold Spring County Putnam

Hole No. 1

SOILS DESCRIPTION:

Soils Description Completed By: Bradley G. Cleverley, PE Date: 1/20/2012
 Surface Elevation 149.50 Depth 8.50 Test Pit Elevation 141.00

Inches				Description of Horizon
	0	TO	3	Asphalt
	3	TO	11	FILL, sampled as dark brown medium SAND, little gravel, moist
	11	TO	8'-6"	Medium brown medium to coarse SAND, some gravel, trace cobbles, moist No groundwater or bedrock encountered

PERCOLATION TEST:

Soils Description Completed By: Bradley G. Cleverley, PE Date: 1/20/2012
 Weather Conditions: Below 40 F
 Soil Conditions: Dry
 Surface Elevation 149.50 Depth 2.50 Perc. Test Elevation 147.00

TIME	READING (INCHES)		TIME (MIN)	INCHES OF DROP	PERC. RATE (MINUTES PER INCH)
10:09	6				
10:11	5		2.0	1	2.0
10:17	3		6.0	2	3.0
10:46	-1.5	EMPTY	29.0	4.5	6.4

**SITE INVESTIGATION AND PERCOLATION
TEST REPORT**

Site Location Butterfield Hospital Municipality Cold Spring County Putnam

Hole No. 2

SOILS DESCRIPTION:

Soils Description Completed By: Bradley G. Cleverley, PE Date: 1/20/2012
 Surface Elevation 148.50 Depth 8.00 Test Pit Elevation 140.50

Inches				Description of Horizon
0	TO	3		Asphalt
3	TO	6		Gravel
6	TO	36		FILL, sampled as brown silty medium SAND, some gravel, moist
36	TO	8'		Brown fine SAND, moist
No groundwater or bedrock encountered				

PERCOLATION TEST:

Soils Description Completed By: Bradley G. Cleverley, PE Date: 1/20/2012
 Weather Conditions: Below 40 F
 Soil Conditions: Dry
 Surface Elevation 148.50 Depth 3.00 Perc. Test Elevation 145.50

TIME	READING (INCHES)		TIME (MIN)	INCHES OF DROP	PERC. RATE (MINUTES PER INCH)
9:48	0				
10:46	-1		58.0	1	58.0
11:18	-1.5		32.0	0.5	64.0
12:30	-2.25		72.0	0.75	96.0
13:10	-3		40.0	0.75	53.3

**SITE INVESTIGATION AND PERCOLATION
TEST REPORT**

Site Location Butterfield Hospital Municipality Cold Spring County Putnam

Hole No. 3

SOILS DESCRIPTION:

Soils Description Completed By: Bradley G. Cleverley, PE Date: 1/20/2012
 Surface Elevation 148.50 Depth 3.00 Test Pit Elevation 145.50

Inches

0 TO 3
 3 TO 10
 10 TO 36

Description of Horizon

Asphalt
 Dark brown SAND, some gravel, moist
 Medium brown fine SAND, moist
 No groundwater or bedrock encountered

PERCOLATION TEST:

Soils Description Completed By: Bradley G. Cleverley, PE Date: 1/20/2012
 Weather Conditions: Below 40 F
 Soil Conditions: Dry
 Surface Elevation 148.50 Depth 3.00 Perc. Test Elevation 145.50

TIME	READING (INCHES)		TIME (MIN)	INCHES OF DROP	PERC. RATE (MINUTES PER INCH)
10:16	7				
10:46	4		30.0	3	10.0
11:20	1		34.0	3	11.3
12:30	0	EMPTY	70.0	1	70.0

**SITE INVESTIGATION AND PERCOLATION
TEST REPORT**

Site Location Butterfield Hospital Municipality Cold Spring County Putnam

Hole No. 7

SOILS DESCRIPTION:

Soils Description Completed By: Bradley G. Cleverley, PE Date: 1/20/2012
 Surface Elevation 131.50 Depth 3.67 Test Pit Elevation 127.83

Inches

0 TO 12
 12 TO 26
 26 TO 44

Description of Horizon

Topsoil
 Medium brown fine SAND, trace gravel, moist
 Dark brown fine sand, trace gravel, moist
 No groundwater or bedrock encountered

PERCOLATION TEST:

Soils Description Completed By: Bradley G. Cleverley, PE Date: 1/20/2012
 Weather Conditions: Below 40 F
 Soil Conditions: Dry
 Surface Elevation 131.50 Depth 3.67 Perc. Test Elevation 127.83

TIME	READING (INCHES)		TIME (MIN)	INCHES OF DROP	PERC. RATE (MINUTES PER INCH)
10:45	16				
10:49	9		4.0	7	0.6
11:14	5.5	EMPTY	25.0	3.5	7.1

**SITE INVESTIGATION AND PERCOLATION
TEST REPORT**

Site Location Butterfield Hospital Municipality Cold Spring County Putnam

Hole No. 8

SOILS DESCRIPTION:

Soils Description Completed By: Bradley G. Cleverley, PE Date: 1/20/2012
 Surface Elevation 129.00 Depth 3.50 Test Pit Elevation 125.50

Inches

0 TO 12
 12 TO 42

Description of Horizon

Topsoil with roots
 Medium brown fine SAND, moist
 No groundwater or bedrock encountered

PERCOLATION TEST:

Soils Description Completed By: Bradley G. Cleverley, PE Date: 1/20/2012
 Weather Conditions: Below 40 F
 Soil Conditions: Dry
 Surface Elevation 129.00 Depth 3.50 Perc. Test Elevation 125.50

TIME	READING (INCHES)		TIME (MIN)	INCHES OF DROP	PERC. RATE (MINUTES PER INCH)
11:33	14				
11:35	13		2.0	1	2.0
11:36	12		3.0	2	1.5
12:00	6.5	EMPTY	24.0	5.5	4.4

**SITE INVESTIGATION AND PERCOLATION
TEST REPORT**

Site Location Butterfield Hospital Municipality Cold Spring County Putnam

Hole No. 12

SOILS DESCRIPTION:

Soils Description Completed By: Bradley G. Cleverley, PE Date: 1/20/2012
 Surface Elevation 123.00 Depth 8.50 Test Pit Elevation 114.50

Inches

Description of Horizon

0	TO	6	Topsoil
6	TO	40	Medium brown fine SAND, trace gravel, moist
40	TO	8'-6"	Dark brown medium to coarse SAND, some cobbles, moist No groundwater or bedrock encountered

PERCOLATION TEST:

Soils Description Completed By: Bradley G. Cleverley, PE Date: 1/20/2012
 Weather Conditions: Below 40 F
 Soil Conditions: Dry
 Surface Elevation 123.00 Depth 3.33 Perc. Test Elevation 119.67

TIME	READING (INCHES)		TIME (MIN)	INCHES OF DROP	PERC. RATE (MINUTES PER INCH)
11:00					
		EMPTY	<1	>1	< 1
WATER DRAINED FROM HOLE					

**SITE INVESTIGATION AND PERCOLATION
TEST REPORT**

Site Location Butterfield Hospital Municipality Cold Spring County Putnam

Hole No. 13

SOILS DESCRIPTION:

Soils Description Completed By: Bradley G. Cleverley, PE Date: 1/20/2012
 Surface Elevation 138.50 Depth 11.00 Test Pit Elevation 127.50

Inches

0 TO 6
 6 TO 72
 72 TO 11'

Description of Horizon

Topsoil
 Medium brown fine SAND, moist
 Dark brown medium to coarse SAND, moist
 No groundwater or bedrock encountered

PERCOLATION TEST:

Soils Description Completed By: Bradley G. Cleverley, PE Date: 1/20/2012
 Weather Conditions: Below 40 F
 Soil Conditions: Dry
 Surface Elevation 138.50 Depth 3.50 Perc. Test Elevation 135.00

TIME	READING (INCHES)		TIME (MIN)	INCHES OF DROP	PERC. RATE (MINUTES PER INCH)
12:55	10				
13:00	9		5.0	1	5.0
13:23	5		28.0	5	5.6
13:30	4		7.0	1	7.0
13:39	3		9.0	1	9.0