



Places Associates, Inc.

Planning, Landscape Architecture, Civil Engineering and Surveying
Certified WBE

Soils testing performed on November 9, 2017 8:00 am to 12:30 pm., to the rear of the existing Northfield Fire Station off of School Street, see attached sketch.

Test Pit # 1

0'-2.5' Gravelly Fill

2.5' - 5' Fine Sandy Loam; Iron oxides @ 48" with distinct mottles; vitrified clay (?) sewer pipe at $\pm$ 4' broken by excavation.

5' - 10' Fine Sandy Loam; few stones, massive in place, moist
No refusal encountered at 10'
Groundwater seepage at 8' after 2.5 hrs open.

Test Pit # 2

0' - 5' Gravelly Fill and construction debris

5' -11.5' Gravelly Fine Sandy Loam; 10YR/5/4; mottles high (iron oxides) and low chroma at 5'; massive in place, moist
No refusal encountered at 11.5'
Groundwater seepage at 8.5' after 2 hrs open.

Test Pit #3

0' - 2' Gravelly Fill and construction debris

2' -5' C-1; Gravelly Fine Sandy Loam; 10YR/5/4; mottles high (iron oxides) and low chroma at 5'; massive in place, moist

5' -11' C-2; Gravelly Fine Sandy Loam; 10YR/5/4; mottles high (iron oxides) and low chroma at 5'; massive in place, moist, stones at 10% $\pm$

No refusal encountered at 11'
Groundwater seepage at 9.5' after 1:45 hrs open.

Test Pit #4

0' - 3.5' Gravelly Fill and construction debris and cinders

3.5' -9' C-1; Gravelly Fine Sandy Loam; 10YR/5/4; mottles high (iron oxides) and low chroma at 5'; massive in place, moist

9' -11' C-2; Silt Loam; 10Y/3/2; mottles low chroma at 5'; sidewalls smearing, massive in place, moist,

No refusal encountered at 11'
Groundwater seepage at 9' after 1:10 hrs open.

Test Pit #5

0' – 3.5' Gravelly Fill and construction debris and cinders

3.5' -11' Silt Loam; 10Y/3/2; mottles low chroma at 5'; sidewalls smearing, massive in place, moist, Sulphur smell.

No refusal encountered at 11'
Groundwater seepage at 8.5' after 1:00 hrs open.

Test Pit #6

0' – 1.5' A; Topsoil and Gravelly Fill mix

1.5' -3' Coarse to Med Sand; likely fill

3' -5.5' Silt Loam; 10Y/3/2; mottles low chroma at 5'; sidewalls smearing, massive in place, moist,

5.5' – 10 Fine Sandy Loam; 10YR/5/3, dense in place, moist; very few stones and pebbles.

No refusal encountered at 10'
Groundwater seepage at 7' after 20 mins open.

Test Pit #7

0' – 3.5' Gravelly, Coarse to Med Sand Fill

3.5' – 5' Broken Fill/Silt Loam

5' -9' Silt Loam; 5GY/4/1- very dark blue; ; mottles low chroma at 5'; sidewalls smearing, massive in place, moist,

9' – 11' Fine Sandy Loam; 10YR/4/6(matrix) ; mottles 10YR/4/4 Coarse Sand & 10YR/5/6-Very Fine Sand, moist; very few stones and pebbles.

No refusal encountered at 11'
Groundwater seepage at 8' after 20 mins open.

Places Associates, Inc.

256 Great Road, Suite 4, Littleton, MA 01460
(978) 486-0334 & (508) 829-0333
www.placesassociates.com

