

MnDOT 2014 Standard Specifications for Construction
(3877 Topsoil Material)

A Common Topsoil Borrow

Provide Common topsoil borrow ranging from a silt loam, loam, clay loam, sandy clay loam, or sandy loam soils for general use as a turf growing medium and in accordance with Table 3877-1. Common Topsoil Borrow is a blend of Type A and/or Type B horizon soils defined in the soil profile section of the Grading and Base Manual, and is similar to topsoil found adjacent to the project.

Table 3877-1 Common Topsoil Borrow Requirements		
Requirement	Range	Test Method
Material Passing the ¾ in [19 mm]	100 %	ASTM D 422
Material passing No. 4 [4.75 mm]	≥ 85%	—
Clay	5% – 40%	ASTM D 422
Silt	10% – 60%	ASTM D 422
Sand	20% – 65%	ASTM D 422
Organic matter	3% – 20%	ASTM D 2974
pH	6.1 – 7.8	ASTM G 51

B Loam Topsoil Borrow

Provide topsoil borrow consisting mostly of loam ranging into sandy clay loam, sandy loam, silt loam, and clay loam soils as a plant growing medium for landscape and planting beds and in accordance with Table 3877-2:

Table 3877-2 Loam Topsoil Borrow Requirements		
Requirement	Range	Test Method
Material Passing the ¾ in [19.0 mm]	100%	ASTM D 422
Material passing No. 4 [4.75 mm]	≥ 90%	—
Clay	5% – 30%	ASTM D 422
Silt	10% – 50%	ASTM D 422
Sand	20% – 70%	ASTM D 422
Organic matter	3% – 20%	ASTM D 2974
pH	6.1 – 7.5	ASTM G 51
Soluble salts	≤ 0.15 siemens/m [1.5 mmho/cm]	—

C Sandy Clay Loam Topsoil Borrow

Provide topsoil borrow consisting mostly of a sandy clay loam and ranging into clay loam, sandy loam, and loam soils for use as a plant growing medium in critical areas, such as steep slopes and as a top dressing for Turf Reinforcement Mats and in accordance with Table 3877-3:

Table 3877-3 Sandy Clay Loam Topsoil Borrow Requirements		
Requirement	Range	Test Method
Screened and pulverized	—	—
Material passing the ¾ screen [19.0 mm]	100%	ASTM D 422
Material passing No. 4 [4.75 mm]	≥ 95%	ASTM D 422
Clay	15% – 35%	ASTM D 422
Silt	0% – 40%	ASTM D 422
Sand	30% – 80%	ASTM D 422
Organic matter	5% – 15%	ASTM D 2974
pH	6.0 – 7.1	ASTM G 51
Soluble salts	≤ 0.15 siemens/m [1.5 mmho/cm]	—