

**Table 1: Lake Vermilion and Soudan Underground Mine State Parks – USDA, NRCS Soil Survey List**

<b>Soil Class (Map Unit Symbol)</b>	<b>Soil Type and Characteristics</b> * = Hydric Soil Type Colored rows = slope >12%	<b>Texture</b>	<b>Drainage</b>	<b>Water Table (inches)</b>	<b>Depth to Bedrock (inches)</b>	<b>Slope</b>
1003B	Udorthents, (cut and fill land)	loamy	Well drained	>80"	>80"	0 to 6%
1020A *	Bowstring and Fluvaquents	loamy	Very poor	0"	>80"	0 to 2%
1021A *	Rifle soils	Mucky peat	Poorly drained	0"	>80"	0 to 1%
1022A *	Greenwood soils	Peat – mucky peat	Very poorly drained	6"	>80"	0 to 1%
1048	Dumps, iron mine	Variable	Variable	n/a	n/a	-
1049	Pits, iron mine	Variable	Variable	n/a	n/a	-
B6B *	Morcom-Thistledeu complex	Sandy loam	Somewhat poorly drained	12"	>80"	0 to 6%
B7D	Udorthents, slumped-Thistledeu-Taylor complex	Loam	Moderately well drained	18"	>80"	10 to 25%
F2B	Eaglesnest-Wahlsten complex	Bouldery	Moderately well drained	24"	40"-60"	2 to 8%
F3D	Eveleth-Eaglesnest-Conic complex	Bouldery	Well drained	>80"	12"-60" to densic material; 20"-40" to lithic bedrock	6 to 18%
F4E	Eveleth-Conic	Bouldery-Rock outcrop complex	Well drained	>80"	12"-55" to densic material	18 to 30%
F5B *	Babbitt, bouldery-Wahlsten, bouldery-Aquepts	Rubbly, complex	variable	12"-24"	20"-40"	0 to 8%
F6B	Soudan-Eaglesnest-Babbitt complex	Bouldery	Moderately well drained	12"-24"	40"-60"	1 to 8%
F7B	Biwabik-Graycalm complex	Gravelly	Excessively drained	>80"	>80"	1 to 8%
F8D	Biwabik-Graycalm-Friendship complex	Pitted outwash plains	Excessively drained	>80"	>80"	0 to 18%
F10D	Cloquet-Pequaywan complex	Pitted outwash plains	Well drained	>80" (varies)	>80"	0 to 18%
F13A *	Babbitt, bouldery-Aquepts, rubbly, complex	Bouldery, rubbly	Poorly drained	12" (varies)	40"-60" to densic material	0 to 3%
F14D	Eveleth stony loam	Bouldery	Well drained	>80"	35"-55" to densic material	8 to 18%
F15E	Rollins cobbly sandy loam	Stony	Somewhat excessively drained	>80"	>80"	18 to 35%
F17A *	Aquepts	Rubbly	Very poorly drained	0"	>80"	0 to 2%
F21D	Quetico, stony-Rock outcrop complex	Stony, outcrop	Well drained	>80"	4"-10"	15 to 35%
F21F	Quetico, stony-Rock outcrop complex	Outcrops, loamy glacial drift	Well drained	>80"	4"-10"	35 to 60%
F23D	Rollins-Biwabik complex	Loamy, gravelly	Somewhat excessively drained	>80"	>80"	8 to 18%
F24A *	Gnesen loam	Loam over gravelly outwash	Somewhat poorly drained	18"	>80"	0 to 3%

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F25D	Rollins-Cloquet complex	Loam over gravelly outwash	Somewhat excessively drained	>80"	>80"	8 to 18%
F26C	Shagawa-Beargrease complex,extremely bouldery	Loamy	Well drained	>80"	>80"	2 to 15%
F26E	Shagawa-Beargrease complex, extremely bouldery	Stony loam	Well drained	>80"	>80"	8 to 30%
F30G	Conic, very bouldery-Insula, very bouldery-Rock outcrop complex	Loamy material over dense till	Well drained	>80"	12"-30" to densic material; 20"-40" to lithic bedrock	20 to 70%
F34A *	Cathro muck, depressional	Muck	Very poorly drained	0"	>80"	0-1%
F35D	Eveleth, bouldery-Conic, bouldery-Aquepts, rubbly, complex	Rubbly	Well drained	>80"	12" – 55" to dense material; >80"	0 to 18%
F35E	Eveleth, bouldery-Conic, bouldery-Aquepts, rubbly, complex	Loamy material over dense till	Well drained	>80"	12"-30", 35"- 55" to densic material; 20"- 40" to lithic bedrock	0 to 30%
F36D	Conic, bouldery-Insula, bouldery-Rock outcrop complex	Loamy glacial drift	Well drained	>80"	12"-30" to densic material' 20"-40" to bedrock	8 to 25%
F37B *	Foglake-Babbitt, bouldery, complex	Gravelly sandy loam	Poorly drained	6"	>80"	0 to 4%
F39A *	Foglake-Aquepts, rubbly- Hassman, depressional, complex	Stony, loamy	Poorly drained	6"	>80"	0 to 2%
F116A *	Mooselake muck	Muck	Very poorly drained	0"	>80"	0 to 1%
F129A *	Tacoosh mucky peat	Muck	Very poorly drained	0"	>80"	0 to 1%
F169B *	Longsiding-Grasston complex	Silty loam, clay	Somewhat poorly drained	18"	>80"	1 to 6%
F187A *	Dora mucky peat	Mucky peat	Very poorly drained	0"	40"-60" to densic material	0 to 1%
GP	Pits, gravel-Udipsamments complex	Sand, gravel	Well drained	Variable	-	variable
W	Water	Liquid	Standing water	0"	-	-