

ATTACHMENT NO. 2

**LAKE VERMILION - SOUDAN UNDERGROUND MINE STATE
PARK DEVELOPMENT**

EAW TABLE 1 (REVISED)

**LAKE VERMILION AND SOUDAN UNDERGROUND MINE STATE
PARKS - USDA, NRCS SOIL SURVEY LIST**

| Soil Class (Map Unit Symbol) | Soil Type and Characteristics * = Hydric Soil Type Colored rows = slope >12% | Texture | Drainage | Water Table (inches) | Depth to Bedrock (inches) | Slope |
|---|---|-------------------------------|------------------------------|-------------------------------------|--|--------------|
| 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 | Very 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-Thistledeew complex | Sandy loam | Somewhat poorly drained | 12" | >80" | 0 to 6% |
| B7D | Udorthents, slumped-Thistledeew-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" | ~15% at 0"-12"; 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% |

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|---|---|-----------------------------------|------------------------------------|-------------------------------------|---|--------------|
| F24A * | Gnesen loam | Loam over gravelly outwash | Somewhat poorly drained | 18" | >80" | 0 to 3% |
| F25D | Rollins-Cloquet complex | Loam over gravelly outwash | Somewhat excessively drained | >80" | >80" | 8 to 18% |
| F26C | Shagawa-Beargrease complex,extremely bouldery | Stony loam over coarse sand | Well drained | >80" | >80" | 2 to 15% |
| F26E | Shagawa-Beargrease complex, extremely bouldery | Stony loam over coarse sand | 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" | - | - |