


MINERALOGY – BIWABIK FORMATION

| Mineral Name | Colour | RGB Code |  <div>First</div> <div>Display Priority</div> <div>Last</div> |
|------------------------------|--------|-------------|---|
| Hematitic Quartz | | 255,200,200 | |
| Goethite | | 255,153,0 | |
| Nontronite | | 105,105,255 | |
| Montmorillonite | | 175,175,255 | |
| Kaolinite | | 191,183,143 | |
| Chert + White Mica* | | 31,76,131 | |
| White Mica (NH4-rich) | | 141,180,226 | |
| White Mica | | 58,102,156 | |
| Carbonate (Fe-rich) | | 0,108,105 | |
| Hydrous Silica/Quartz | | 0,176,240 | |
| Jasper + Carbonate (Fe-rich) | | 0,219,214 | |
| Jasper | | 255,0,0 | |
| Chert + Carbonate (Fe-rich) | | 112,104,64 | |
| Microplaty Hematite | | 168,128,0 | |
| Martite | | 204,102,0 | |
| Fe-Oxide Mixture | | 255,192,0 | |
| Talc (Fe-rich) | | 145,255,145 | |
| Talc | | 255,255,20 | |
| Greenalite | | 196,215,155 | |
| Minnesotaite | | 255,153,255 | |
| Stilpnomelane | | 163,41,122 | |
| Chlorite (Fe-rich) | | 0,255,0 | |
| Chlorite | | 0,192,0 | |
| Carbonate + Silicate | | 188,255,255 | |
| Chert + Carbonate* | | 255,255,255 | |
| Carbonate | | 0,255,255 | |
| Magnetite Mixture | | 167,37,255 | |
| Magnetite | | 95,95,95 | |
| Chert Mixture | | 166,166,166 | |
| Chert | | 209,209,209 | |
| Chert + Slate | | 128,0,0 | |
| Slate Mixture | | 88,0,0 | |
| Slate | | 50,50,80 | |

* Only displayed in the class map

MINERALOGY – VIRGINIA FORMATION

| Mineral Name | Colour | RGB Code |
|------------------------------|--------|-------------|
| Slate | | 50,50,80 |
| Slate Mixture | | 88,0,0 |
| Carbonate | | 0,255,255 |
| Carbonate (Fe-rich) | | 0,108,105 |
| Carbonate + Silicate | | 188,255,255 |
| Hydrous Silica/Quartz | | 0,176,240 |
| White Mica | | 58,102,156 |
| White Mica (NH4-rich) | | 141,180,226 |
| Chlorite (Fe-rich) | | 0,255,0 |
| Chlorite | | 0,192,0 |
| Chert Mixture | | 166,166,166 |
| Chert + Carbonate* | | 255,255,255 |
| Chert + Slate | | 128,0,0 |
| Chert | | 209,209,209 |
| Hematitic Quartz | | 255,200,200 |
| Goethite | | 255,153,0 |
| Nontronite | | 105,105,255 |
| Montmorillonite | | 175,175,255 |
| Kaolinite | | 193,183,143 |
| Chert + White Mica* | | 31,76,131 |
| Jasper + Carbonate (Fe-rich) | | 0,219,214 |
| Jasper | | 255,0,0 |
| Chert + Carbonate (Fe-rich) | | 112,104,64 |
| Microplaty Hematite | | 168,128,0 |
| Martite | | 204,102,0 |
| Fe-Oxide Mixture | | 255,192,0 |
| Talc (Fe-rich) | | 145,255,145 |
| Talc | | 255,255,20 |
| Greenalite | | 196,215,155 |
| Minnesotaite | | 255,153,255 |
| Stilpnomelane | | 163,41,122 |
| Magnetite Mixture | | 167,37,255 |
| Magnetite | | 95,95,95 |

First

Display Priority

Last

** Only displayed in the class map*

MINERALOGY – POKEGAMA FORMATION

| Mineral Name | Colour | RGB Code | <div> <div>First</div> <div>Display Priority</div> <div>Last</div> </div> |
|------------------------------|--------|-------------|---|
| Quartz | | 0,176,240 | |
| Hematitic Quartz | | 255,200,200 | |
| White Mica | | 58,102,156 | |
| White Mica (NH4-rich) | | 141,180,226 | |
| Chert + White Mica* | | 31,76,131 | |
| Chlorite (Fe-rich) | | 0,255,0 | |
| Chlorite | | 0,192,0 | |
| Nontronite | | 105,105,255 | |
| Montmorillonite | | 175,175,255 | |
| Kaolinite | | 191,183,143 | |
| Slate Mixture | | 88,0,0 | |
| Slate | | 50,50,80 | |
| Carbonate | | 0,255,255 | |
| Carbonate (Fe-rich) | | 0,108,105 | |
| Chert + Slate | | 128,0,0 | |
| Chert + Carbonate* | | 255,255,255 | |
| Carbonate + Silicate | | 188,255,255 | |
| Chert | | 209,209,209 | |
| Chert Mixture | | 166,166,166 | |
| Goethite | | 255,153,0 | |
| Jasper + Carbonate (Fe-rich) | | 0,219,214 | |
| Jasper | | 255,0,0 | |
| Chert + Carbonate (Fe-rich) | | 112,104,64 | |
| Microplaty Hematite | | 168,128,0 | |
| Martite | | 204,102,0 | |
| Fe-Oxide Mixture | | 255,192,0 | |
| Talc (Fe-rich) | | 145,255,145 | |
| Talc | | 255,255,20 | |
| Greenalite | | 196,215,155 | |
| Minnesotaite | | 255,153,255 | |
| Stilpnomelane | | 163,41,122 | |
| Magnetite Mixture | | 167,37,255 | |
| Magnetite | | 95,95,95 | |

* Only displayed in the class map

MINERAL COMPOSITION PARAMETERS: IMAGING THRESHOLD



| Image | Measurement* | Lower Threshold | Upper Threshold |
|--|-----------------------------|-----------------|-----------------|
| Albedo 448-740nm | Average R(448-820nm) | -0.05 | 0.50 |
| Carbonate (all) 2340nm wavelength | L2300 | 2315nm | 2350nm |
| Carbonate (all) 2340nm relative grain size | D2340/D _{max} 2340 | 0.02 | 1.00 |
| Chlorite 2250nm wavelength | L2250 | 2240nm | 2270nm |
| Microplaty Hematite ratio | R540/R620 | 0.45 | 1.05 |
| Minnesotaite 2340nm wavelength | L2340 | 2320nm | 2350nm |
| Talc (all) 2310nm wavelength | L2310 | 2305nm | 2320nm |
| Illite Crystallinity Index | D2200/D1900 | 0.75 | 6.5 |
| White Mica (all) 220nm crystallinity | (D2200 ²)/A2200 | 0 | 0.0025 |
| White Mica (all) 2200nm wavelength | L2200 | 2185nm | 2225nm |

*L = wavelength (in nm) at feature minimum, R = reflectance, A = area, D = depth at feature minimum,
D_{max} = maximum depth at feature minimum