

Table 1. Sample Localities, Lithology, and Mineralogy

Sample	Locality	Lithology	Mineralogy (%)
MRX1	Hsinwu, Taiwan	Slate	Qtz, Mus, Ill, Ca, Gr, Pl
MRX2	Kuanyuan, Taiwan	Slate	Ill, Qtz, Ca, Gr, Chl, Pl, Py
MRX3	Lushan, Taiwan	Slate	Ill, Qtz, Gr, Py, Pl, Ca
MRX4	Poultney, VT	Slate	Ill, Qtz, Gr, Pl, Chl, Py
MRX5	West Castleton, VT	Slate	Ill, Qtz, Chl, Mus, Py, Pl
MRX6	Hampton, NY	Slate	Ill, Qtz, He, Ca, Pl
MRX7	Hampton, NY	Slate	Ill, Qtz, Chl, Py, Ca, Pl, Mus
MRX8	Fair Haven, VT	Slate	Ill, Qtz, Ca, He, Py, Pl
MRX9	Lindis Pass, New Zealand	Phyllite	Pl 39, Qtz 35, Bi 15, Mus 5, Chl 3, Ep 3
MRX10	Botanical Beach, Vancouver Island, BC	Phyllite	Pl 31, Qtz 27, Mus 14, Bi 5, Ca 5, Gr 3, Chl 13, Ep 2
MRX11	Soule Ck., Vancouver Island, BC	Phyllite	Pl 35, Qtz 35, Bi 11, Chl 7, Mus 7, Ma 3, Gr 2
MRX12	Botanical Beach, Vancouver Island, BC	Phyllite	Pl 32, Qtz 31, Mus 17, Chl 8, Ca 7, Gr 3, Ma 2
MRX13	Soule Ck., Vancouver Island, BC	Phyllite	Qtz 38, Pl 27, Mus 21, Chl 6, Gr 3, Ma 3, Bi 2
MRX14	San Juan Point, Vancouver Island, BC	Phyllite	Qtz 28, Mus 20, Pl 19, Ca 18, Chl 9, Gr 4, Py 2
MRX15	Pelona, Lytle Ck., CA	Phyllite	Mus 35, Qtz 34, Pl 21, Ep 9, Ma 1
MRX16	Valdez, AK	Phyllite	Pl 36, Qtz 25, Chl 15, Bi 12, Mus 5, Gr 5, He 2
MRX17	Murton Ck., Vancouver Island, BC	Phyllite	Qtz 29, Pl 29, Mus 22, Gr 9, Ca 8, Chl 3
MRX18	Valdez, AK	Phyllite	Mus 33, Pl 29, Qtz 24, Ca 5, Chl 5, Gr 4
MRX19	Valdez, AK	Phyllite	Qtz 32, Mus 27, Pl 22, Ca 6, Chl 5, Bi 4, Gr 4
MRX20	Port Renfrew, Vancouver Island, BC	Phyllite	Qtz 31, Mus 19, Pl 16, Gr 9, Ca 5, Ma 4, Bi 4, Chl 12
MRX21	Port Renfrew, Vancouver Island, BC	Phyllite	Mus 38, Qtz 32, Pl 19, Gr 7, Py 2, Bi 2
MRX22	Lake Hawea, New Zealand	Phyllite	Pl 35, Qtz 31, Mus 30, Chl 2, Ep 2
MRX23	Fish River, New Zealand	Phyllite	Qtz 41, Mus 25, Gr 14, Pl 12, Ma 6, Chl 2
MRX24	White Point, New Zealand	Phyllite	Mus 50, Qtz 31, Pl 11, Chl 7, Ca 1
MRX25	Lake Hawea, New Zealand	Phyllite	Qtz 53, Pl 20, Mus 18, Chl 5, Ep 4
MRX26	Salcha River, AK	Qtz Mica Schist	Pl 39, Mus 29, Qtz 20, Bi 5, Chl 4, Ga 3
MRX27	J. Elliott Ck, Vancouver Island, BC	Qtz Mica Schist	Pl 33, Bi 31, Qtz 24, Mus 4, Ma 3, Ca 3, Chl 2
MRX28	N. Sombrio River, Vancouver Island, BC	Qtz Mica Schist	Pl 38, Mus 21, Qtz 19, Bi 13, St 5, Ma 3, Ga 1
MRX29	Fox Glacier, New Zealand	Qtz Mica Schist	Mus 49, Qtz 24, Pl 13, Bi 5, Ga 4, Chl 3, Sp 1, Ma 1
MRX30	Coldfoot, AK	Qtz Mica Schist	Mus 37, Qtz 31, Pl 14, Chl 11, Bi 4, Ma 3
MRX31	S. Sombrio River, Vancouver Island, BC	Qtz Mica Schist	Pl 50, Bi 24, Qtz 18, And 3, Ma 3, Ga 2
MRX32	Sombrio Point, Vancouver Island, BC	Qtz Mica Schist	Pl 46, Qtz 26, Bi 22, And 3, Ma 2, Ga 1
MRX33	N. Sombrio River, Vancouver Island, BC	Qtz Mica Schist	Pl 36, Bi 35, Qtz 21, And 6, Ma 2
MRX34	J. Elliott Ck, Vancouver Island, BC	Qtz Mica Schist	Pl 48, Qtz 26, Bi 20, St 2, Ga 2, Sp 1, Ma 1
MRX35	Douglas Bluff, New Zealand	Qtz Mica Schist	Qtz 31, Pl 28, Mus 25, Bi 10, Chl 5, Ma 1
MRX36	Halfway Bluff, New Zealand	Qtz Mica Schist	Qtz 67, Mus 13, Bi 12, Pl 5, Ga 2, Ma 1
MRX37	Halfway Bluff, New Zealand	Qtz Mica Schist	Qtz 39, Pl 23, Mus 20, Bi 15, Ma 2, Chl 1
MRX38	Parkinson Ck., Vancouver Island, BC	Qtz Mica Schist	Pl 37, Bi 31, Qtz 25, And 5, Ma 2
MRX39	S. Gavilan Hills, CA	Qtz Mica Schist	Qtz 40, Pl 28, Bi 18, Mus 8, Zo 5, Ma 1
MRX40	Black Rapids, AK	Qtz Mica Schist	Mus 34, Qtz 19, Pl 18, Chl 14, Zo 6, Ca 5, Bi 2, Sp 2
MRX41	Thomaston, CT	Qtz Mica Schist	Qtz 28, Pl 24, Mus 18, Bi 17, Ga 7, Chl 3, Ma 2, St 1
MRX42	Fox Glacier, New Zealand	Qtz Mica Schist	Qtz 63, Mus 18, Bi 10, Pl 8, Ma 1
MRX43	Thomaston, CT	Qtz Mica Schist	Qtz 32, Mus 24, Bi 22, Pl 21, Ma 1
MRX44	Minute Ck., Vancouver Island, BC	Qtz Mica Schist	Qtz 31, Pl 26, Bi 25, Ma 6, Mus 4, Gr 4, Ga 4
MRX45	Torrington, CT	Qtz Mica Schist	Bi 32, Pl 20, Mus 17, Ky 14, Qtz 12, Ga 5
MRX46	Rupal, Nanga Parbat, Pakistan	Qtz Bio Gneiss	Pl 75, Mus 15, Bi 6, Qtz 4
MRX47	Birch Lake, AK	Qtz Bio Gneiss	Pl 32, Qtz 26, Chl 7, Bi 16, Mus 14, Ma 2, Ep 2, Ga 1
MRX48	Rupal, Nanga Parbat, Pakistan	Qtz Bio Gneiss	Pl 58, Qtz 20, Bi 17, Mus 3, Ma 2
MRX49	Astor River, Nanga Parbat, Pakistan	Qtz Bio Gneiss	Pl 45, Bi 33, Qtz 19, Ma 2, Sil 1
MRX50	Tato, Nanga Parbat, Pakistan	Qtz Bio Gneiss	Pl 49, Bi 26, Qtz 15, Or 5, Sil 3, Ma 2
MRX51	Tato, Nanga Parbat, Pakistan	Qtz Bio Gneiss	Pl 54, Bi 25, Qtz 20, Ma 1
MRX52	Tato, Nanga Parbat, Pakistan	Qtz Bio Gneiss	Pl 38, Or 25, Bi 22, Qtz 15
MRX53	Rupal, Nanga Parbat, Pakistan	Qtz Bio Gneiss	Pl 55, Bi 24, Qtz 15, Mus 6
MRX54	ADCOH drill hole 1 (278.6 m), Westminster, SC	Qtz Bio Gneiss	Pl 45, Bi 29, Qtz 21, Ep 5
MRX55	ADCOH drill hole 1 (83.8 m), Westminster, SC	Qtz Bio Gneiss	Pl 48, Bi 24, Qtz 23, Ep 3, Ma 2
MRX56	ADCOH drill hole 1 (174.7 m), Westminster, SC	Qtz Bio Gneiss	Pl 48, Bi 25, Qtz 25, Ep 1, Ma 1
MRX57	ADCOH drill hole 2 (52.7 m), Walhalla, SC	Mylonite	Pl 55, Mus 25, Qtz 19, Ma 1
MRX58	ADCOH drill hole 2 (43.6 m), Walhalla, SC	Mylonite	Pl 52, Mus 22, Qtz 22, Ca 3, Ma 1
MRX59	ADCOH drill hole 2 (303.9 m), Walhalla, SC	Mylonite	Pl 30, Qtz 24, Mic 21, Mus 14, Bi 6, Ca 3, Sp 1, Chl 1
MRX60	ADCOH drill hole 2 (274.9 m), Walhalla, SC	Mylonite	Mic 23, Pl 22, Qtz 21, Mus 21, Ep 5, Bi 5, Ca 2, Sp 1
MRX61	Alpine fault, Franz Josef, New Zealand	Mylonite	Pl 31, Mus 28, Qtz 28, Bi 6, Chl 3, Ca 2, Ma 2
MRX62	Rocky Pt., New Zealand	Mylonite	Qtz 49, Pl 20, Mus 20, Chl 3, Ca 3, Ma 3, Bi 2
MRX63	ADCOH drill hole 2 (212.5 m), Walhalla, SC	Mylonite	Pl 28, Qtz 26, Mus 23, Chl 6, Ep 5, Sp 4, Mic 4, Tou 2, Ma 2
MRX64	Alpine fault, Franz Josef, New Zealand	Mylonite	Pl 31, Mus 29, Qtz 17, Bi 8, Chl 8, Ca 4, Ma 3
MRX65	ADCOH drill hole 2 (121.9m), Walhalla, SC	Mylonite	Qt 48, Pl 22, Mus 18, Bi 10, Ma 2
MRX66	ADCOH drill hole 2 (77.7 m), Walhalla, SC	Mylonite	Pl 33, Bi 21, Qtz 21, Mus 15, Ca 7, Ma 3
MRX67	ADCOH drill hole 2 (29.0 m), Walhalla, SC	Mylonite	Mus 32, Pl 22, Bi 18, Qtz 18, Ga 4, Chl 3, Ma 1, Tou 1, Sp 1

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MRX68	ADCOH drill hole 2 (167.9 m), Walhalla, SC	Mylonite	Pl 27, Bi 21, Qtz 20, Chl 16, Mus 10, Ma 4, Ga 2
MRX69	ADCOH drill hole 2 (34.8 m), Walhalla, SC	Mylonite	Bi 25, Pl 20, Ca 18, Qtz 15, Mus 12, Chl 6, Tou 2, Ma 2
MRX70	ADCOH drill hole 2 (84.4 m), Walhalla, SC	Mylonite	Mus 39, Qtz 20, Pl 15, Chl 15, Ga 7, Ma 3, Ep 1
MRX71	ADCOH drill hole 2 (113.7 m), Walhalla, SC	Mylonite	Pl 34, Qtz 28, Bi 20, Mus 13, Chl 3, Ma 2
MRX72	Tienhsiang, Taiwan	Greenschist	Chl 46, Ca 17, Pl 11, Ep 8, Qtz 7, Ma 6, Act 5
MRX73	Lake Wanaka, South Island, New Zealand	Greenschist	Pl 33, Qtz 24, Act 23, Ep 7, Chl 6, Ca 5, Ma 2
MRX74	Shuksan, Iron Mountain, WA	Greenschist	Chl 47, Ep 24, Pl 19, Qtz 5, Act 4, Ma 1
MRX75	Big Bluff, New Zealand	Amphibolite	Hbn 28, Pl 25, Bi 20, Qtz 12, Ca 10, Ma 3, Mus 2
MRX76	ADCOH drill hole 1 (109.7 m), Westminster, SC	Amphibolite	Hbn 55, Pl 34, Qtz 9, Ep 1, Bi 1
MRX77	Gaunt Ck., New Zealand	Amphibolite	Hbn 68, Pl 22, Ga 4, Sp 3, Qtz 2, Ca 1
MRX78	Rob Roy St., New Zealand	Amphibolite	Hbn 35, Ep 33, Pl 24, Qtz 6, Chl 2
MRX79	Gaunt Ck, New Zealand	Amphibolite	Hbn 78, Pl 17, Ma 2, Sp 1, Ca 1, Chl 1
MRX80	Trio Peak, Fiordland, New Zealand	Amphibolite	Hbn 61, Pl 28, Ep 6, Qtz 5
MRX81	Copper Center, AK	Amphibolite	Hbn 71, Pl 16, Qtz 5, Sp 5, Ep 3
MRX82	Kola Drillhole (8732 m), Kola Peninsula, Russia	Amphibolite	Hbn 70, Pl 17, Qtz 10, Ap 1, Bi 1, Ilm 1
MRX83	ADCOH drill hole 1 (235.0 m), Westminster, SC	Amphibolite	Hbn 69, Pl 16, Ep 8, Qtz 7
MRX84	Iron Mountain, WA	Ant Schist	Ant 94, Ma 6
MRX85	Gee Point, WA	Ant Schist	Ant 97, Ma 3
MRX86	Iron Mountain, WA	Ant Schist	Ant 96, Ma 4
MRX87	Val Malenco, Italy	Olivine Ant Schist	Ant 69, Ol 25, Ma 3, Cpx 3
MRX88	Tonsina, AK	Greenschist	Ep 55, Pl 29, Chl 16
MRX89	Mayguan, Qanshan, China	Phengite Schist	Phn 36, Qtz 29, Ga 24, Bi 8, Ky 2, Rt 1
MRX90	Tonsina, AK	Blueschist	Gla 45, Ep 25, Pl 29, Ma 1
MRX91	Maowu, Taihu, China	Eclogite	Cpx 58, Ga 40, Rt 2
MRX92	Digermulen, Norway	Mangerite	Pl 56, Cpx 28, Opx 7, Bi 3, Ma 3, Hbn 2, Ga 1
MRX93	Skeena River, AK	Restite	Ga 20, Sil 12, Qtz 15, Ma 5, Pl 48
MRX94	Malaspina Reach, Fiordland, New Zealand	Mafic Granulite	Pl 51, Hbn 22, Cpx 14, Opx 10, Sp 2, Ma 1
MRX95	Stokmarknes, Norway	Mangerite	Pl 49, Cpx 39, Opx 6, Bi 3, Ma 3
MRX96	S.W. Greenland	Mafic Granulite	Pl 35, Cpx 24, Opx 22, Hbn 18, Ma 1
MRX97	Brooks Range, AK	Marble	Ca 100
MRX98	Chipan, Taiwan	Marble	Ca 98, Qtz 1, Ma 1
MRX99	Cypress Island, WA	Dunite	Ol 98, Opx 1, Chr 1
MRX100	Twin Sisters, WA	Dunite	Ol 94, Opx 5, Chr 1
MRX101	Alpena, MI	Shale	Ill, Chl, Qtz, Py
MRX102	Scottsburg, IN	Shale	Ill, Chl, Qtz, Py, Dol, Ca
MRX103	Thorn Hill, TN	Shale	Ill, Chl, Qtz, Py
MRX104	Scottsburg, IN	Shale	Ill, Chl, Qtz, Py, Dol
MRX105	Scottsburg, IN	Shale	Ill, Chl, Qtz, Dol, Py
MRX106	Scottsburg, IN	Shale	Ill, Chl, Qtz, Py, Dol, Ca
MRX107	Thorn Hill, TN	Shale	Ill, Chl, Qtz, Py
MRX108	Kuanyuan, Taiwan	Slate	Chl, Qtz, Ill, Ca, Gr, Mic, Pl
MRX109	Valdez, AK	Phyllite	Qtz 35, Bi 20, Pl 19, Mus 18, Ca 5, Ma 3
MRX110	Tienhsiang, Taiwan	Schist	Mus 38, Qtz 31, Pl 20, Ca 6, Gr 3, Ma 2
MRX111	Evans Creek, New Zealand	Schist	Qtz 46, Mus 22, Pl 15, Chl 13, Bi 10, Ma 4
MRX112	S. Gavilan Hills, CA	Schist	Pl 40, Bi 21, Mus 18, Qtz 15, Ca 3, Zo 2, Ma 1
MRX113	S. Gavilan Hills, CA	Schist	Pl 38, Mus 24, Bi 16, Qtz 12, Chl 4, Ga 3, Ky 2, Ma 1
MRX114	Chipan, Taiwan	Schist	Pl 41, Qtz 24, Bi 21, Mus 10, Ma 3, Chl 1
MRX115	W. Torrington, CT	Schist	Bi 57, Pl 15, Qtz 15, Mus 6, Ky 4, Ga 3
MRX116	Litchfield, CT	Schist	Mus 44, Pl 20, Bi 16, Qtz 14, Ga 4, St 1, Ma 1
MRX117	Litchfield, CT	Schist	Mus 51, Pl 19, Qtz 15, Ky 4, Ma 3, Bi 5, Ga 1, Sil 1, St 1
MRX118	Tonsina, AK	Amphibolite	Hbn 51, Pl 40, Opx 4, Ma 3, Cpx 2
MRX119	W. Torrington, CT	Amphibolite	Hbn 61, Pl 28, Ep 6, Qtz 5
MRX120	ADCOH drillhole 1 (221.8 m), Westminster, SC	Amphibolite	Hbn 52, Pl 41, Qtz 3, Chl 3, Ma 1
MRX121	ADCOH drillhole 1 (159.7m), Westminster, SC	Amphibolite	Hbn 55, Pl 33, Qtz 9, Ep 2, Bi 1
MRX122	Cornwall, CT	Amphibolite	Hbn 70, Pl 20, Qtz 5, Bi 3, Ma 2
MRX123	Twin Sisters, WA	Dunite	Ol 96, Chr 3, Opx 1

Act, actinolite; And, andalusite; Ant, Antigorite; Ap, apatite; Bi, biotite; Ca, calcite; Chl, chlorite; Chr, chromite; Cpx, clinopyroxene; Dol, dolomite; Ep, epidote; Ga, garnet; Gla, glaucophane; Gr, graphite; Hbn, hornblende; He, hematite; Ill, illite; Ilm, ilmenite; Ky, kyanite; Liz, lizardite; Ma, magnetite; Mic, microcline; Mus, muscovite; Ol, olivine; Opx, orthopyroxene; Or, orthoclase; Phn, phengite; Pl, plagioclase; Py, pyrite; Qtz, Quartz; Rt, rutile; Sil, sillimanite; Sp, sphene; St, staurolite; Tou, tourmaline; Zo, zoisite;