

Table 1. Sampling Data and Geological Characteristics for Ultramafic Rocks

MAP CODE	LOCALITY	GEOLOGICAL PROVINCE	TYPE OF INTRUSION	INTERNAL FEATURES	ROCK TYPE SAMPLED	SULPHIDE MINERALIZATION	DISTRIBUTION OF MINERALIZATION	SAMPLES CLASSIFIED AS	SPREAD OF SAMPLES IN MILES	HAND SPECIMEN SAMPLE (H) AND/OR CORE (C)	NUMBER OF SAMPLES
1.	Eastern Townships (Quebec)	Appalachian	Continuous sills	Homogeneous bodies or simple differentiates	Asbestiform serpentinite derived from dunite and peridotite	None known	-	Barren	150	C	55
2.	Eastern Metals Prospect (Eastern Townships)	Appalachian	Continuous sill	Homogeneous body or simple differentiate	Serpentinite derived from dunite and peridotite	Massive chalcopyrite	Planar fracture zones in country rock close to ultramafic contact	Ore	0.5	C	12
3.	Farry Sound - Huntsville (Ontario)	Grenville	Plugs less than 1/4 mile diameter	-	Serpentinized peridotite and hartzburgite	Minor sulphide mineralization	-	Barren	30	H	15
4.	Strathy Twp. (Ontario)	Superior	Elliptical plug tapering at depth	-	Serpentinized peridotite; some talcose and chloritic alteration	Chalcopyrite, pyrrhotite, pentlandite, pyrite	Disseminated and as stockworks close to north contact in tongue of ultramafic	Ore	1	H and C	35
5.	McElroy and Skead Twps. (Ontario)	Superior	Continuous sills	-	Fine grained serpentinized peridotite	Minor Ni and Cu sulphides	Sulphides near contacts	Barren	12	H	34
6.	Pacaud and Boston Twps. (Ontario)	Superior	Continuous sills	-	Serpentinized peridotite	None known	-	Barren	2	H	9
7.	Cairo and Powell Twps. (Ontario)	Superior	Lensoid sills	-	Fine grained to aphanitic serpentinized peridotite	None known	-	Barren	6	H	24
8.	Roquemare Twp. (Quebec)	Superior	Lensoid sills	-	Serpentinized peridotite	None known	-	Barren	2	C	35
9.	Midlothian Twp. (Ontario)	Superior	Lensoid sills	-	Serpentinized dunite and peridotite	None known	-	Barren	2	H	31
10A.	Langmuir Ore Sill (Ontario)	Superior	Lensoid sill	Differentiated into gabbroic and ultramafic rock types	Serpentinized peridotite; talcose and carbonate alteration	Pyrite, pentlandite, pyrrhotite, millerite	Disseminated, within serpentinite close to basal contact	Ore	0.5	C	36
10B.	Langmuir Barren Sill (Ontario)	Superior	Lensoid sill	-	Serpentinized peridotite; talcose and carbonate alteration	None known	-	Barren	1	C	10
11.	Deloro Twp. (Ontario)	Superior	Lensoid sills and dikes	-	Variably serpentinized peridotite, talc-chlorite schist	None known	-	Barren	4	H	31
12A.	Shaw Twp. (Ontario)	Superior	Lensoid sills	-	Serpentinized dunite and peridotite	None known	-	Barren	3	H	18
12B.	Carman Twp. (Ontario)	Superior	Lensoid sills	-	Serpentinized dunite and peridotite	None known	-	Barren	3	C	8
13.	Semple Twp. (Ontario)	Superior	Lensoid sills and dikes	-	Talcose, chloritic and asbestiform serpentinites and serp. peridotites	None known	-	Barren		C	11
14.	Texmont Mine (Ontario)	Superior	Elliptical sill-like body	Some differentiation into gabbroic and ultramafic rock types	Serpentinized peridotite with local talc alteration	Pentlandite, pyrite, rare chalcopyrite	Disseminated through vertical lenses of U.M. rock lying en echelon to strike of U.M. body	Ore	1.5	H and C	36
15.	Alexo Mine (Ontario)	Superior	Sill	Some differentiation into gabbroic and ultramafic rock types	Serpentinized peridotite	Pentlandite, pyrrhotite, chalcopyrite, heazlewoodite	Massive and disseminated ore along basal contact of ultramafic body	Minore	2	H and C	31
17.	McArthur Twp. (Ontario)	Superior	Sill	-	Very fine grained serpentinized peridotite	None known	-	Barren	2	H	8
18.	Tisdale Twp. (Ontario)	Superior	Lensoid sill	-	Fine grained serpentinized peridotite; occ. talcose	None known	-	Barren	1.5	H	9
19.	McCart Twp. (Ontario)	Superior	Sill	-	Serpentinized peridotite	Very minor sulphides	-	Barren	1	H	8
20.	Reaume Twp. (Ontario)	Superior	Sill	-	Serpentinized dunite and serpentinized peridotite; occ. talcose	None known	-	Barren	4	C	10
21.	Hunro Twp. (Ontario)	Superior	3 sills	Homogeneous to banded; gabbro to ultramafic	Serpentinite, serpentinized peridotite, pyroxenite	Minor amount nickelliferous pyrrhotite	-	Barren	5	H and C	28
22.	Garrison Twp. (Ontario)	Superior	Sill	Gabbroic differentiate	Asbestiform serpentinized dunite and peridotite	Rare occurrences pyrrhotite	-	Barren	1.5	H and C	12
23.	Vassan Twp. (Quebec)	Superior	Scattered plug-like bodies	Layered in part; several outcrops homogeneous	Serpentinized peridotite and pyroxenite; local alteration to talc-chlorite-tremolite schist	None known	-	Barren	1.5	H	11
24.	Freissac Twp. (Quebec)	Superior	Elongate plug or sill	-	Talc-chlorite schist, sheared serpentinized peridotite, and tremolitic pyroxenites	5-8 miles from Marbridge Mine within same U.M. body	See Marbridge Mine	Minore	3	H and C	9
25.	Carpentier Twp. (Quebec)	Superior	Sill	-	Serpentinized dunite and peridotite	None known	-	Barren	2	C	11
26.	Marbridge Mine (Quebec)	Superior	Elongate plug or sill	-	Serpentinite, serp. peridotite, talcose peridotite, talc-chlorite schist, tremolite pyroxenite	Millerite, pyrrhotite, pentlandite, pyrite	Massive in U.M. at contact and in country rock	Ore	2.5	C	36
27.	Louvicoourt Twp. (Quebec)	Superior	Elliptical plug or sill	-	Serpentinized peridotite and dunite	None known	-	Barren	0.5	C	8
28.	Malartic Twp. (Quebec)	Superior	Fault emplaced body along "Malartic Break"	Probably homogeneous; condition obscured by shearing	Talc schist, talc-chlorite schist, tremolitic peridotite and carbonated var. of above	None known	-	Barren	7	C	16
29A.	Lac Bourbeau (Quebec)	Superior	Sills	Multiple layering: peridotite-pyroxenite-dunite	Serpentinized dunite peridotite and pyroxenite	None known	-	Barren	2.5	H	12
29B.	Lac Antoinette (Quebec)						-	Barren	1	C	12
29C.	Lake Chibougamau North (Quebec)						-	Barren	3	H	16
30.	Werner and Gordon Lakes (Ontario)	Superior	Lenses and vertical pods emplaced along E-W fault zone	Originally homogenous, some foliation and pegmatite contact alteration	Tremolite peridotite (var. amounts of amphibole), some tremolite-pyroxenite	Massive and disseminated pyrrhotite, pentlandite, chalcopyrite, some cobaltite	Disseminated through intrusion or concentrated at contact; also in fault adjacent to body	Ore	7	H and C	29
31.	Bird River (Manitoba)	Superior	Layered sill	Differentiated sill with peridotite and anorthositic gabbro	Chloritized, serpentinized peridotite and tremolite-pyroxenite	Massive pyrrhotite, pentlandite, chalcopyrite, and cubanite	In fracture zone at or below contact of sill with volcanics	Ore	3	H and C	32
32A.	Reeves Twp. (Ontario)	Superior	Sill	-	Serpentinized dunite and peridotite; occ. asbestiform	None known	-	Barren	1.5	H and C	9
32B.	Kenogaming Twp. (Ontario)	Superior	Sill	-	Serpentinized peridotite	Some disseminated pentlandite	Disseminated within ultramafic	Barren	2	H	9
33.	Adrian Twp. (Ontario)	Superior	Sill?	Fairly homogeneous, some pyroxenite near margin	Serpentinized peridotite	None known	-	Barren	3	H	8
34.	Maizerets Twp. (Quebec)	Superior	Sill?	-	Serpentinized peridotite and dunite	None known	-	Barren	12	C	11
35.	Dryden Twp. (Ontario)	Superior	Plug	Originally zoned? secondary alteration and shearing	Hartzburgite, serpentinized peridotite and talcose, varieties of above	None known	-	Barren	1	H	8
36.	Nakina Area (Ontario)	Superior	Sill	-	Very fine grained serpentinized peridotite	None known	-	Barren	2	H	16
37.	Kakagi Lake (Ontario)	Superior	Sill	-	Serpentinized dunite and peridotite, subordinate pyroxenite and talc-chlorite schist	None known	-	Barren	4	H	16
38.	Lynn Lake (Manitoba)	Churchill	Plugs	Gabbro body with ultramafic facies-apparently a layered intrusion	Tremolite-pyroxenite, tremolite-peridotite, serpentinized dunite	Massive and disseminated pyrrhotite, pentlandite, chalcopyrite, and pyrite	Ore bodies occur along west side of gabbro-ultramafic body near to contact	Ore	1	C	**
39A.	Shebandowan Lake North Sill (Ontario)	Superior	Sill	-	Serpentinized peridotite, variably carbonated	Massive, some disseminated pentlandite, pyrrhotite, chalcopyrite, pyrite and polydymite	Ore principally occurs along shear zone in peridotite and country rocks	Ore	1.5	H and C	13
39B.	Shebandowan Lake Central and South Sills	Superior	Sills	-	Serpentinized peridotite, variably carbonated	None known?	-	Barren	4	H	16
40.	McCool Twp. (Ontario)	Superior	Sill	Gabbro differentiate, layered?	Serpentinized dunite and peridotite	None known	-	Barren	5.5	C	16
41A.	Hargrave River (Manitoba)	Churchill/Superior boundary	Lensoid sill	-	Serpentinite, serpentinized dunite and peridotite	None known	-	Barren	6	C	12
41B.	Resting Lake (Manitoba)	Churchill/Superior boundary	Lensoid sill	-	Serpentinite, serpentinized dunite and peridotite	None known	-	Barren	2	C	12
41C.	Bucko Ore Sill (Manitoba)	Churchill/Superior boundary	Discordant sill-like body	-	Serpentinite, talc schist	Disseminated pentlandite and pyrrhotite	Disseminated through zones in ultramafic	Ore	<1	C	7
41D.	Bucko Barren Sill (Manitoba)	Churchill/Superior boundary	Discordant sill	-	Serpentinite	None known	-	Barren	<1	C	7
42.	Puddy Lake (Ontario)	Superior	Lensoid sill	-	Serpentinite, talc-chlorite schist, serpentinized pyroxenite	Irregular disseminations of millerite, chalcopyrite, pentlandite. Also nickelliferous magnetite	Disseminated sulphides occur in different parts of body from nickelliferous magnetite	Minore	2	H and C	23
43.	Moak Lake (Manitoba)	Churchill/Superior boundary	Sill	-	Serpentinized dunite and peridotite	Disseminated pyrrhotite and pentlandite	No regular pattern to disseminated sulphides in U.M.; some massive sulphides in fractures	Ore	1	H and C	27
44A.	Katinic (Quebec)	Churchill/Superior boundary	Sill	-	Serpentinized peridotite	Disseminated and massive pentlandite, pyrrhotite and chalcopyrite	Sulphides concentrated along base of sill	Ore	1	C	16
44B.	Raglan (Quebec)							Ore	1	H and C	28
44C.	Expo (Quebec)							Ore	1	H and C	20
45.	Pipe Lake (Manitoba)	Churchill/Superior boundary	Unknown	-	Serpentinized peridotite	Sulphides	Not known	Ore	<1	C	4
46A.	Retty Lake (Quebec)	Churchill/Superior boundary (Labrador Trough)	Sills	Ultramafic sills; usually have a gabbroic upper phase	Serpentinized peridotite, tremolite pyroxenite, rare serpentinized dunite	None known	-	Barren	1	H	14
46B.	Thompson Lake (Quebec)							Barren	<1	H	10
46C.	Asbestos Lake (Quebec)							Barren	<1	H	10
46D.	Glance Lake (Quebec)							Disseminated pyrrhotite, pentlandite, and chalcopyrite	Concentrated at base of sill	Minore	1
47.	Renzly Lake (Quebec)	Grenville	Sill	-	Serpentinized and tremolitic peridotite, foliated	Massive and disseminated pyrrhotite, pentlandite, chalcopyrite	Within ultramafic along fractures parallel to foliation	Ore	1	H and C	16
48.	Sothman Twp. (Ontario)	Superior	Sill	Some differentiation into gabbroic and ultramafic rock types	Serpentinized dunite, serpentinized peridotite, tremolitic peridotite	Massive and disseminated pyrrhotite and chalcopyrite	Concentrated along base of sill	Minore	2.5	C	18