



FOSSIL COLLECTIONS				
Sample (GSC loc. #)	Fossil Taxa	Age	Source	NTS
LITTLE SALMON SUCCESSION - CLSm				
F1 85GGA-66 (C-18094)	Conodonts: <i>Pendosia?</i> sp	Ordovician (Note: probably dental)	GSC fossil report OF-1992-11 (M.J. Orchard); collected by S.P. Gorday (Poulton et al., 1999)	105L/2
F2 98L-S-2 (C-34131)	echinoderms	Phanerozoic	GSC fossil report MUO-1996-4 (M.J. Orchard); collected by M. Colpron (1998)	105L/2
F3 99MC041 (C-13302)	solitary dibunophylid? corals; unidentified echinoderm ossicles	Carboniferous or Permian; possibly mid-Carboniferous (Viskian to Moscovian)	GSC fossil report 3-EWB-199 (E.W. Bamber); collected by M. Colpron	105L/2
F4 99MC042 (C-13302)	colonial autophyllid coral, possibly <i>Coveney</i> sp.	mid-Carboniferous, late Viskian to Moscovian	GSC fossil report 3-EWB-199 (E.W. Bamber); collected by M. Colpron	105L/2
F5 99-RAS-MAC-031-1 (C-04669)	Conodonts: ramiform elements; <i>grathofodi</i> sp.	Carboniferous - Permian	GSC fossil report MUO-2000-4 (M.J. Orchard); collected by M. Colpron	105L/2
LITTLE KALZAS SUCCESSION - MLKm				
F6 98MC142 (C-30413)	echinoderm fragments	Ordovician - Triassic?	Campbell (1967)	105L/13
F7 98MC158 (C-304129)	Conodonts: <i>grathofodi?</i> ramiform elements; <i>Hindolites?</i> sp.; <i>Vogelgrathus?</i> sp.	Early? Carboniferous	GSC fossil report MUO-1996-4 (M.J. Orchard); collected by M. Colpron (1998)	105L/13
F8 98MC160 (C-304130)	echinoderm fragments	Ordovician - Triassic?	Campbell (1967)	105L/13
F9 98MC167 (C-304130)	Conodonts: ramiform elements	Ordovician - Triassic	GSC fossil report MUO-1996-4 (M.J. Orchard); collected by M. Colpron (1998)	105L/13
EARN GROUND (KALZAS FORMATION) - MK				
F10 (C-20195)	<i>Camantochia</i> sp.; <i>Crinoid</i> stems; fish tooth; spirifer fragments	Lower Mississippian	identified by P. Harker in Campbell (1967)	105L/14
F11 82-DY-2381 (C-081691)	Conodonts: ramiform elements; <i>Biaparthodus</i> ex gr. <i>stabilis</i> (Branson & Mehl 1934)	Early Carboniferous	GSC fossil report OF-1992-5 (M.J. Orchard); collected by K.M. Dawson (Poulton et al., 1999) (Note: miscolated on map)	105L/14
F12 82-DY-2382 (C-081689)	Conodonts: ramiform elements; <i>Biaparthodus</i> ex gr. <i>stabilis</i> (Branson & Mehl 1934); <i>Polyprathus</i> sp. cf. <i>P. communis</i> (Branson & Mehl 1934)	Early Carboniferous, Tournaisian	GSC fossil report OF-1992-5 (M.J. Orchard); collected by K.M. Dawson (Poulton et al., 1999) (Note: miscolated on map)	105L/14
F13 82-DY-2383 (C-081686)	Conodonts: carinate element; ramiform element	Ordovician-Triassic	GSC fossil report OF-1992-5 (M.J. Orchard); collected by K.M. Dawson (Poulton et al., 1999) (Note: miscolated on map)	105L/14
F14 82-DY-23-79a (C-102623)	spiriferid brachiopods	Carboniferous	GSC fossil report C3-EWB-1983 (E.W. Bamber); collected by K.M. Dawson (1982) (Poulton et al., 1999) (Note: miscolated on map)	105L/14
F15 82-DY-23-81a (C-102624)	echinoderm columns; spiriferid? brachiopods	Carboniferous or Permian	GSC fossil report C3-EWB-1983 (E.W. Bamber); collected by K.M. Dawson (1982) (Poulton et al., 1999) (Note: miscolated on map)	105L/14
RABBITKETTLE FORMATION - COR				
F16 82-DY-23-74 (C-102622)	<i>Monograptus?</i> sp.; <i>Orthograptus</i> sp.; retiolid	Late Ordovician to early Silurian	GSC fossil report O-S-10-BSN-1983 (B.S. Norford); collected by K.M. Dawson (1982) (Poulton et al., 1999)	105L/14
F17 82GGA-88A (C-107906)	dicyonemid graptolite? fenestellid bryozoan indet.; gastropod? indet.; ramose bryozoan indet.	Silurian to Permian	GSC fossil report O4-EWB-1983 (E.W. Bamber); collected by S.P. Gorday (1982) (Poulton et al., 1999) (Note: location uncertain on map)	105L/14

ISOTOPIC AGE DATES									
Sample	Age (Ma)	2 σ	Method	Mineral	Lithology	Interpretation notes	Reference	NTS	
TERTIARY - T₀									
1 25887R1	54.9 ± 1.7		U/Pb	zircon	Rhyolite Porphyry		Bretspecher et al. (2002)	105L/13	
2 J12888-R6	56.3 ± 0.2		U/Pb	zircon	Quartz-feldspar-hornblende porphyry dyke(?)		Colpron and Mortensen (2002)	105L/3	
3 J12888-R6	67.7 ± 3.3		K/Ar	hornblende	Quartz-feldspar-hornblende porphyry dyke(?)	Igneous cooling age	Hunt and Roddick (1992)	105L/3	
4 MB-88-182	57 ± 0.8		K/Ar	biotite	Biote-plagioclase-hornblende porphyry dyke	Igneous cooling age	Bretspecher et al. (2002)	105L/3	
5 MB-88-185	60.1 ± 0.8		K/Ar	biotite	Biote quartz monzonite	Igneous cooling age	Bretspecher et al. (2002)	105L/3	
6 MB-88-185	56.6 ± 0.9		K/Ar	biotite	Biote quartz monzonite	Igneous cooling age	Bretspecher et al. (2002)	105L/3	
CARMACKS GROUP - uKcV									
7 16687b	73.4 ± 1.3		K/Ar	whole rock	Slightly altered olivine basalt.	Igneous cooling age	Hunt and Roddick (1992)	105L/3	
8 TO-74-74a	63.3 ± 3.1		K/Ar	biotite	Fresh basalt		Wanless et al. (1979)	115H/16	
9 TOR29-23a	74.4 ± 3		K/Ar	hornblende	Hornblende porphyry		Stevens et al. (1982)	115H/16	
MID-CRETACEOUS GRANITE - mKcG									
10 00MC173	93 ± 1		U/Pb	zircon	K-feldspar porphyritic granite	3 near-concordant fraction scattered between 92 and 94 Ma	Colpron and Mortensen (unpub.)	105L/2	
11 98MC171	94.5 ± 1.5		U/Pb	zircon	Medium-grained equigranular biotite granite	5 near-concordant fractions scattered between 93 and 98 Ma	Colpron and Mortensen (unpub.)	105L/2	
GLENLYON SUITE (?) - mKcG									
12 CL-46-860-700-M-CL	108.1 ± 0.2		U/Pb	zircon	Quartz-feldspar porphyry dyke in drill core at the Clear Lake deposit		Bretspecher et al. (2002)	105L/14	
13 SYA88-64A-1	105 ± 4		K/Ar	whole rock	Hornfels zone associated with a small stock or sill of quartz-feldspar porphyry	Metamorphic cooling age; probably closely reflects age of nearby Glenlyon batholith (?)	Hunt and Roddick (1990)	105L/1	
TANTALUS FORMATION (?) - iKT									
14 MB-88-181	92 ± 1.3		U/Pb	zircon	Felsic tuff band within immature clastic sedimentary rocks		Bretspecher et al. (2002)	105L/3	
TATLMAIN BATHOLITH - eJTG									
15 98MC227	197.1 ± 0.4		U/Pb	zircon	Unfoliated, medium-grained hornblende tonalite	Age is based on one concordant fraction	Colpron and Mortensen (unpub.)	105L/14	
16 98MC227	193		U/Pb	zircon	tonalite	Igneous cooling age - Younger of two concordant fractions; other fraction is concordant at 199 Ma	Colpron and Mortensen (unpub.)	105L/14	
17 TO79-25-2	142 ± 10		K/Ar	biotite	Well foliated porphyritic granite/granodiorite	Igneous cooling age (300°C)	Stevens et al. (1982)	115H/9	
CORNOLIO PLUTON - PJcm									
18 98MC054a	264.2 ± 1		U/Pb	zircon	Undeformed hornblende-biotite quartz monzonite	6 discordant fractions; age is lower intercept of 3 point regression (MSWD - unresolved)	Colpron and Mortensen (unpub.)	105L/13	
19 98MC054a	190.7 ± 1.9		Ar/Ar	hornblende	Undeformed hornblende-biotite quartz monzonite	Igneous cooling age (500°C) - plateau age	Colpron and Villeneuve (unpub.)	105L/13	
20 98MC054a	194.9 ± 1.9		Ar/Ar	biotite	Undeformed hornblende-biotite quartz monzonite	Igneous cooling age (300°C) - hump-shaped spectra indicate that this sample is probably altered	Colpron and Villeneuve (unpub.)	105L/13	
LITTLE SALMON SUITE - mMad - mMpB									
21 00MC005	339.4 ± 0.9		U/Pb	zircon	Fine to coarse-grained augite gabbro (unit mMpB)	Fraction B concordant - weighted average of fractions B+C = 342.4 ± 6 Ma	Colpron and Mortensen (unpub.)	105L/7	
22 98MC014	338.5 ± 1		U/Pb	zircon	Fine-grained foliated and strongly-lined quartz diorite to granodiorite	Single concordant fraction	Colpron and Mortensen (unpub.)	105L/2	
23 98MC034	339.8 ± 2.3		U/Pb	zircon	Medium-grained foliated and lined granodiorite	3 point regression, MSWD = 17.6	Colpron and Mortensen (unpub.)	105L/1	
24 98MC072B	358.2 ± 4.2		U/Pb	zircon	Strongly foliated, coarse-grained hornblende diorite	Poorly resolved age - 5 discordant fractions - A+B are near concordant at ca. 349 Ma; weighted average of A+B+C = 358.2 ± 4.2 Ma	Colpron and Mortensen (unpub.)	105L/1	
25 T-454	353 ± 1.3		U/Pb	zircon	Massive, medium-grained equigranular granodiorite	Minimum age estimate; 3 point regression	Oliver and Mortensen (1998)	105L/1	
TATLMAIN BATHOLITH - mMTg									
26 98MC195	339.5 ± 1.3		U/Pb	zircon	Medium-grained, equigranular hornblende-biotite quartz diorite; unfoliated	2 concordant fractions	Colpron and Mortensen (unpub.)	105L/13	
27 98MC195	343.7 ± 3.2		Ar/Ar	hornblende	Medium-grained, equigranular hornblende-biotite quartz diorite; unfoliated	Igneous cooling age (500°C) - good, strong reproducible plateaus	Colpron and Villeneuve (unpub.)	105L/13	
28 98MC065	347.8 ± 4		U/Pb	zircon	granite/medium-grained equigranular granite; unfoliated	Weighted mean of 4 discordant fractions; see sample 98MC195 for more reliable age of same pluton; possibly age of xenocrysts	Colpron and Mortensen (unpub.)	105L/13	
LITTLE SALMON SUCCESSION - mM.Sp									
29 98MC001-3	340.2 ± 2.1		U/Pb	zircon	Quartz-feldspar meta-porphry	4 point regression, MSWD=0.5; one fraction concordant	Colpron and Mortensen (unpub.)	105L/2	
LITTLE KALZAS SUCCESSION - MLkV									
30 98MC063a	344.5 ± 5.2		U/Pb	zircon	Meta-thyllite	Weighted mean of 4 discordant Pb/Pb ages	Colpron and Mortensen (unpub.)	105L/13	
31 98MC125	345.8 ± 1		U/Pb	zircon	Light-green quartz-muscovite-feldspar schist	Age is single concordant fraction. Remaining 3 fractions discordant, align with concordant fraction albeit poorly	Colpron and Mortensen (unpub.)	105L/13	
LITTLE KALZAS SUITE - mKcG									
32 98MC058a	343.1 ± 1.2		U/Pb	zircon	Medium-grained, strongly-foliated quartz diorite	5 point regression, MSWD = 6.9	Colpron and Mortensen (unpub.)	105L/13	
33 98MC111	344 ± 1.5		U/Pb	zircon	Strongly-foliated biotite granite to tonalite	4 point regression on discordant fractions (MSWD = 15)	Colpron and Mortensen (unpub.)	105L/13	
34 98MC119	346.2 ± 1.8		U/Pb	zircon	Hornblende biotite granodiorite, variably foliated, fine- to medium-grained, contains abundant xenoliths	2 concordant fractions	Colpron and Mortensen (unpub.)	105L/13	
35 98MC16d	347		U/Pb	zircon	K-feldspar megacrystic granite; strongly foliated	Poorly resolved age - lower intercept of 2 point regression	Colpron and Mortensen (unpub.)	105L/13	
TELEGRAPH SUITE - mMTd									
36 01MC230-1	349 ± 0.7		U/Pb	zircon	Weakly foliated and boudinaged, coarse-grained hornblende tonalite	2 overlapping concordant fractions; fraction B is most precise at 349 Ma	Colpron and Mortensen (unpub.)	105L/2	
37 01MC230-2	348.5 ± 1.2		U/Pb	zircon	Strongly foliated, fine-grained, Plag-Mz-Qtz-Hbl-Bt schist (quartz diorite)	5 concordant fractions; minor Pb loss for some fractions; A + C are oldest at 348.3 Ma	Colpron and Mortensen (unpub.)	105L/2	
38 K001-220	348.3 ± 1.1		U/Pb	zircon	Medium-grained, equigranular hornblende granodiorite	3 overlapping concordant fractions at 348.3 Ma	Gladwin, Colpron and Mortensen (unpub.)	105L/1	
LOKKEN SUCCESSION - MLp									
39 01MC288	350.4 ± 1.3		U/Pb	zircon	Quartz-feldspar porphyry; foliated	4 fractions on or near concordia; fraction D is most concordant at 350.4 Ma	Colpron and Mortensen (unpub.)	105L/1	
RAGGED PLUTON - mMRs									
40 00T9004	356.4 ± 1		U/Pb	zircon	K-feldspar porphyritic augite syenite; unfoliated	2 concordant fractions	Colpron and Mortensen (unpub.)	105L/12	

MINIFILE									
MINIFILE No.	Name	Status	Deposit Type	Commodities	Map Unit	NTS			
105L 001	Little Salmon	Prospect	Skim	Zn (Ag, Pb, Cu, Au)	COk	105L/1			
105L 002	Cain	Unknown	Unknown		COk	105L/1			
105L 003	Little Salomon	Drilled Prospect	Skim	Zn, Ag, Pb (Au, Sn) (As)	COk	105L/1			
105L 004	Moule	Anomaly	Unknown	Cu	SDAc	105L/1			
105L 005	Tuitt	Drilled Prospect	Unknown		COk	105L/1			
105L 006	Keene	Unknown	Unknown		COk	105L/1			
105L 007	Ret Knoll	Unknown	Unknown		DMdg	105L/1			
105L 008	Ulrike	Anomaly	Unknown		DMdg	105L/1			
105L 009	Whelton	Anomaly	Unknown		CLsv	105L/7			
105L 010	Lark	Unknown	Unknown		CLsv	105L/2			
105L 011	Stud	Unknown	Unknown		PSa	105L/2			
105L 012	Brandy	Unknown	Unknown	Cu	PSa	105L/2			
105L 013	Jumpout	Showing	Coal	Coal	cSv	105L/2			
105L 014	Drury	Unknown	Unknown		cSv	105L/7			
105L 030	Hachey	Drilled Prospect	Unknown	Pb, Zn (Cu)	cGAL	105L/14			
105L 032	Horsfall	Anomaly	SEDEX	Ba (Pb)	DME	105L/14			
105L 033	Nels	Unknown	Unknown		COk	105L/13			
105L 034	Flu	Anomaly	Unknown		COk	105L/13			
105L 036	Duo	Unknown	Coal		cGAL	105L/14			
105L 037	McArthur	Prospect	SEDEX	Zn, Pb, Ag, Mo (Au)	COk	105L/14			
105L 042	Trudor	Drilled Prospect	Unknown		cGAL	105L/14			
105L 043	Conwest	Drilled Prospect	Unknown		cGAL	105L/14			
105L 045	Clear Lake	Deposit	SEDEX	Zn, Pb, Ag (Ba) (Tl, Pb)	DME	105L/14			
105L 047	Graged	Unknown	Unknown		DME	105L/11			
105L 048	Raf	Unknown	Unknown		mKc	105L/11			
105L 049	Hugh	Anomaly	Unknown		MPq	105L/13			
105L 060	Hark	Showing	SEDEX	Ba	cGAL	105L/14			
105L 063	Black Bear	Unknown	Unknown		COk	105L/14			
105L 054	Kal	Prospect	SEDEX	Zn, Pb, Ag, Mo (Au)	COk	105L/14			
105L 056	Tum	Drilled Prospect	SEDEX	Zn	COk	105L/11			
105L 059	Goo	Anomaly	Unknown		Tr	105L/2			
105L 060	Marble	Anomaly	Unknown	Au	Tr	105L/2			
105L 061	Oobird	Showing	Porphyry	Cu (Ag)	uLlv	105L/5			
105L 062	Government	Showing	Volcanogenic	Cu	mMLSp	105L/2			
105L 063	Highway	Showing	Volcanogenic	Cu (Au, Pb, Ag)	PSa	105L/2			
105L 064	Jenny	Showing	Ven	Cu, Pb, Zn, Ag	CLsv	105L/7			
115 017	Tonahala	Anomaly	Coal	Coal	PSa	115H/9			
115 018	Nadnerock	Showing	Coal	Coal	cSv	115H/6			
115 114	Taitnan	Anomaly	Unknown		eJTG	115H/9			

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