



Table 1. Geochronology data collected within Taseko Lakes map area (NTS 92-O)

Argon-Argon (Ar-Ar) Method											
Map ID	Sample ID	UTM Easting	UTM Northing	Age (Ma)	Error ² (Ma)	Material Dated	Map Unit	Geologic Occurrence	Rock Type	Geologist	Reference
1	CS-109D4	511100	5744500	0.9	0.5	whole rock	MPov	Chikotin Group	alkaline augite basalt	P.B. Read	unpublished
2	CS-104K4	511450	5757200	1.2	0.1	whole rock	Pra	Chikotin Group, Chiem formation	alkaline basalt	unpublished	GSC
3	CS-101H1	512000	575000	1.3	0.2	whole rock	MPov	Chikotin Group	medium-grained basalt flow	unpublished	GSC
4	CS-103C2	511600	5752000	1.9	0.4	whole rock	MPov	Chikotin Group	medium-grained alkali basalt	P.B. Read	unpublished
5	CS-109D1	510950	5743000	2.7	0.1	whole rock	MPov	Chikotin Group	alkaline augite basalt	P.B. Read	unpublished
6	CS-109D1	512000	5748100	3.0	0.2	whole rock	MPov	Chikotin Group	medium-grained alkali basalt	P.B. Read	unpublished
7	TL-87-12	523078	5655439	27.3	0.2	sericite	Epd	Red Mountain volcanic complex	alkalifid and sericized volcanics	D.A. Archibald et al. (1990); Schanz et al. (1997)	Quens
8	TL-87-16	491241	5655027	34.7	1.9	hornblende	Ev	Lizard stock	hornblende porphyry	D.A. Archibald et al. (1990); Schanz et al. (1997)	Quens
9	TL-87-1	484187	5653116	41.8	2.8	K-feldspar	MP	Shale Lake stock	hornblende-plagioclase-biotite quartz porphyry	D.A. Archibald et al. (1990); Schanz et al. (1997)	Quens
10	TL-87-7	486584	5662298	43.5	0.3	biotite	Epd	Lorne Lake stock	quartz monzonite	D.A. Archibald et al. (1990); Schanz et al. (1997)	Quens
11	TL-87-8	471661	5677487	43.9	0.6	biotite	Epd	Lorne Lake stock	quartz monzonite	D.A. Archibald et al. (1990); Schanz et al. (1997)	Quens
12	TL-87-8	510069	5675234	47.4	0.5	biotite	Ev	Red Mountain volcanic complex	hornblende-plagioclase-biotite quartz porphyry	D.A. Archibald et al. (1990); Schanz et al. (1997)	Quens
13	HB-89-03-06	544200	5704000	48.2	0.5	whole rock	Ev	Exton volcanic-Empire Valley	hyalite	C.J. Hickson	unpublished
14	HB-89-03-06	525700	5671000	48.5	0.5	whole rock	Ev	Exton volcanic-Empire Valley	basalt(?) sill	C.J. Hickson	unpublished
15	HB-89-03-06	544200	5705000	49.0	0.5	whole rock	Ev	Exton volcanic-Empire Valley	andesite	C.J. Hickson	unpublished
16	HB-89-36-10	515700	5705450	52.8	0.5	whole rock	IKa	dike in Mt. New complex	andesite	C.J. Hickson	unpublished
17	TL-87-8	510069	5675234	53.5	0.8	hornblende	Ev	Red Mountain volcanic complex	hornblende-plagioclase-biotite quartz porphyry	D.A. Archibald et al. (1990); Schanz et al. (1997)	Quens
18	TL-87-17	478415	5661884	54.4	0.3	whole rock	uKpm	Powell Creek Formation	andesite	D.A. Archibald et al. (1990); Schanz et al. (1997)	Quens
19	TL-87-17	478415	5661884	55.0	1.9	plagioclase (interst)	uKpm	Powell Creek Formation	andesite	D.A. Archibald et al. (1990); Schanz et al. (1997)	Quens
20	DR-89-04-01	534300	5695000	61.7	0.6	whole rock	Ev	Exton volcanic-Empire Valley	basalt(?)	C.J. Hickson	unpublished
21	VSI-128-6	488400	5702000	64.5	0.7	biotite	KfTf	Powell Creek Formation	mylonitic muscovite-biotite porphyry	P. van der Heyden	unpublished
22	HB-89-40-03	481000	5695000	64.7	0.1	hornblende	uKpm	Powell Creek Formation	hornblende-plagioclase porphyry	D.A. Archibald et al. (1990); Schanz et al. (1997)	Quens
23	HB-89-40-03	521850	5675000	65.2	0.6	whole rock	uKpm	Dash-Chum succession (Powell Creek Formation)	basalt(?)	C.J. Hickson	unpublished
24	TL-88-17	509250	5651240	67.1	0.9	biotite	KfTf	Enderbury pluton	granodiorite	D.A. Archibald et al. (1990); Schanz et al. (1997)	Quens
25	TL-88-17	509250	5651240	67.1	0.9	plagioclase	KfTf	Enderbury pluton	granodiorite	D.A. Archibald et al. (1990); Schanz et al. (1997)	Quens
26	HB-89-10-01	521850	5675000	68.5	0.7	whole rock	uKpm	dike cutting Powell Creek Formation	andesite	C.J. Hickson	unpublished
27	JA-81-18	435000	5650000	69.9	3.2	whole rock	uKpm	dike cutting Powell Creek Formation	diorite	J.A. Mason	unpublished
28	TL-88-17	509250	5651240	69.9	0.3	biotite	KfTf	Enderbury pluton	hornblende-plagioclase porphyry	D.A. Archibald et al. (1990); Schanz et al. (1997)	Quens
29	JA-81-18	435000	5650000	69.9	3.2	whole rock	uKpm	dike cutting Powell Creek Formation	diorite	J.A. Mason	unpublished
30	JA-81-18	435000	5650000	69.9	3.2	whole rock	uKpm	dike cutting Powell Creek Formation	diorite	J.A. Mason	unpublished
31	DR-89-03-03	478415	5661884	73.7	0.5	sericite	uKpm	Exton volcanic-Empire Valley	alkali in mineralized zone	D.A. Archibald et al. (1990); Schanz et al. (1997)	Quens
32	TL-87-11a	533574	5655234	75.6	2.1	hornblende	Ev	dike within Shalups Ultramafic Complex	hornblende-plagioclase porphyry	D.A. Archibald et al. (1990); Schanz et al. (1997)	Quens
33	TL-87-11b	533532	5654005	76.5	8.6	hornblende	Ev	dike within Shalups Ultramafic Complex	hornblende-plagioclase porphyry	D.A. Archibald et al. (1990); Schanz et al. (1997)	Quens
34	TL-87-17	478415	5661884	77.8	1.5	plagioclase	uKpm	Powell Creek Formation	andesite	D.A. Archibald et al. (1990); Schanz et al. (1997)	Quens
35	JA-81-18	435000	5650000	79.0	0.5	whole rock	uKpm	dike cutting Powell Creek Formation	andesite	J.A. Mason	unpublished
36	JA-81-18	435000	5650000	79.0	0.5	whole rock	uKpm	dike cutting Powell Creek Formation	andesite	J.A. Mason	unpublished
37	JA-81-18	435000	5650000	79.0	0.5	whole rock	uKpm	dike cutting Powell Creek Formation	andesite	J.A. Mason	unpublished
38	JA-81-18	435000	5650000	79.0	0.5	whole rock	uKpm	dike cutting Powell Creek Formation	andesite	J.A. Mason	unpublished
39	JA-81-18	435000	5650000	79.0	0.5	whole rock	uKpm	dike cutting Powell Creek Formation	andesite	J.A. Mason	unpublished
40	TL-87-17	478415	5661884	86.3	0.3	muscovite	uKpm	Powell Creek Formation	andesite	C. Pace	unpublished
41	JA-81-18	435000	5650000	86.3	0.3	whole rock	uKpm	Powell Creek Formation	andesite	J.A. Mason	unpublished
42	JA-308	442100	5678000	88.2	3.4	hornblende	uKpm	Powell Creek Formation	andesite	J.A. Mason	unpublished
43	JA-308	442100	5678000	88.2	3.4	hornblende	uKpm	Powell Creek Formation	andesite	J.A. Mason	unpublished
44	JA-308	442100	5678000	88.2	3.4	hornblende	uKpm	Powell Creek Formation	andesite	J.A. Mason	unpublished
45	HB-89-16-01	521850	5675000	89.0	0.9	whole rock	uKpm	Dash-Chum succession (Powell Creek Formation)	basalt flow fault zone	J.A. Mason	unpublished
46	VSI-128-6	488400	5702000	89.2	2.4	biotite	KfTf	Powell Creek Formation	mylonitic muscovite-biotite porphyry	P. van der Heyden	unpublished
47	HB-89-16-01	521850	5675000	90.0	0.9	whole rock	uKpm	Dash-Chum succession (Powell Creek Formation)	basalt flow fault zone	J.A. Mason	unpublished
48	VSI-128-6	488400	5702000	90.2	2.4	biotite	KfTf	Powell Creek Formation	mylonitic muscovite-biotite porphyry	P. van der Heyden	unpublished
49	JA-262	434500	5650000	90.2	0.5	whole rock	uKpm	Powell Creek Formation	andesite	J.A. Mason	unpublished
50	HB-89-16-01	521850	5675000	90.2	0.9	whole rock	uKpm	Dash-Chum succession (Powell Creek Formation)	basalt flow fault zone	J.A. Mason	unpublished
51	VSI-128-6	488400	5702000	90.2	2.4	biotite	KfTf	Powell Creek Formation	mylonitic muscovite-biotite porphyry	P. van der Heyden	unpublished
52	JA-262	434500	5650000	90.2	0.5	whole rock	uKpm	Powell Creek Formation	andesite	J.A. Mason	unpublished
53	HB-89-16-01	521850	5675000	90.2	0.9	whole rock	uKpm	Dash-Chum succession (Powell Creek Formation)	basalt flow fault zone	J.A. Mason	unpublished
54	TL-87-14	509250	5651240	104.5	16.6	hornblende	KfTf	North Bay pluton	hornblende-plagioclase porphyry	D.A. Archibald et al. (1990); Schanz et al. (1997)	Quens
55	TL-87-14	509250	5651240	104.5	16.6	hornblende	KfTf	North Bay pluton	hornblende-plagioclase porphyry	D.A. Archibald et al. (1990); Schanz et al. (1997)	Quens
56	VSI-128-6	488400	5702000	104.5	16.6	hornblende	KfTf	North Bay pluton	hornblende-plagioclase porphyry	D.A. Archibald et al. (1990); Schanz et al. (1997)	Quens
57	VSI-128-6	488400	5702000	104.5	16.6	hornblende	KfTf	North Bay pluton	hornblende-plagioclase porphyry	D.A. Archibald et al. (1990); Schanz et al. (1997)	Quens
58	VSI-128-6	488400	5702000	104.5	16.6	hornblende	KfTf	North Bay pluton	hornblende-plagioclase porphyry	D.A. Archibald et al. (1990); Schanz et al. (1997)	Quens
59	TL-88-23	529500	5654720	200.8	10.7	hornblende	Pan	Shalups ultramafic (hooker in Shalups serpentine embayment)	amphibolite	D.A. Archibald et al. (1991); Schanz et al. (1997)	Quens

Uranium-Lead (U-Pb) Method												
Map ID	Sample ID	UTM Easting	UTM Northing	Age (Ma)	Error ² (Ma)	Material Dated	Map Unit	Geologic Occurrence	Rock Type	Geologist	Reference	Lab
163	MONS-2	507500	5723150	52.2		zircon	Ev	Marine pluton	granodiorite	R.M. Friedman	Friedman and Armstrong (1989)	UBC
144	95SC-4	514570	5712000	73.0	+13/-14	zircon	KfTf	Tonalitic Rapallo pluton	disseminated biotite porphyry	S. Israel	unpublished	UBC
165	VSI-128-6	488400	5702000	82.3	0.5	zircon	KfTf	mylonitic phase of biotite tonalite	mylonitic phase of biotite tonalite	P. van der Heyden	unpublished	UBC
166	VSI-128-6	522320	5680592	86.2	0.3	zircon	uKpm	Powell Creek Formation	spilitic tuff	J.B. Mahoney	Mahoney et al. (1999)	UBC
167	CS-102C-2	517100	5700707	92.0	0.3	zircon	KgT	Pink Lake pluton (dike belt)	coarse-grained hornblende diorite	P. Slichter	Friedman et al. (2005)	UBC
168	CS-102C-2	517100	5700707	92.4	0.1	zircon	KgT	And-Mt. Wollas, Pinnacles Power-Creek subvolcanic intrusion	hornblende diorite	S. G. Samuelsen	unpublished	UBC
169	CS-102C-2	517670	5704233	89.5	0.3	zircon	KgT	Granitic Gable pluton	hornblende porphyry	S. Israel	unpublished	UBC
170	95SC-1	456400	5664000	102.0	2.0	zircon	KfTf	Marine Plungton intrusion	volcanic plug	S. Israel	Israel, 2001	UBC
171	95SC-2	456400	5662110	102.0	2.5	zircon	KfTf	Pall's River intrusion	felsic tuff	S. Israel	Israel, 2001	UBC
172	95SC-3	456400	5664000	103.0	3.0	zircon	KfTf	Marine Mt. Wollas batholith	granite	S. Israel	Israel et al. (2004)	UBC
173	95SC-4	456400	5707000	104.1	0.5	zircon	KfTf	Seabee Ridge pluton	syenite	J.B. Mahoney	Heister et al. (2003)	UBC
174	CS-102C-5A-1	512270	5714813	93.0	0.5	zircon	KfTf	NE - Newbury complex	granite	S. G. Samuelsen	unpublished	UBC
175	95MR-30-36-29	518100	5707430	105.9	0.5	zircon	mKb	Alban tuffites, dykes, unconformable on gabbro	quartzite and feldspathic gneiss	C. Hickson	unpublished	GSC
176	95H-17-17-05	525000	5695000	102.6	0.5	zircon	Ev	Lillo Basin pluton, granodiorite phase	biotite granodiorite	C. Hickson	unpublished	GSC
177	95H-17-17-05	525000	5697000	102.8	0.5	zircon	Ev	Mt. Wollas tonalite	hornblende biotite tonalite	P. van der Heyden	unpublished	GSC
178	VSI-87	467750	5695000	119.2	0.5	zircon	JGKd	Mt. Wollas tonalite	weakly biotized biotite-hornblende tonalite	P. van der Heyden	unpublished	GSC
179	VSI-87-2	502900	5695000	118.7	1.0	zircon	Ev	Pink Peak diorite	medium to coarse-grained tonalite	P. van der Heyden	unpublished	GSC
180	VSI-87-3	509440	5695000	119.9	0.9	zircon	JGKd	Pink Peak hornblende quartz diorite	tonalite	J. Monge	unpublished	GSC
181	Pink Peak	501967	5703367	116.5	2.0	zircon	JGKd	Pink Peak tonalite	tonalite	R.M. Friedman	Friedman and Armstrong (1989)	UBC
182	VSI-245-6	568800	5688000	88.7	0.8	zircon	Ev	Seabee Ridge pluton	granite	J. B. Mahoney	Mahoney et al. (1999)	UBC
183	VSI-87	507750	5695000	147.0	0.5	zircon	JGKd	Mt. Wollas tonalite	weakly biotized biotite-hornblende tonalite	P. van der Heyden	unpublished	GSC
184	VSI-24	503700	5695000	147.5	0.5	zircon	Ev	Mt. Wollas tonalite, Pink Peak complex	medium to coarse-grained tonalite	P. van der Heyden	unpublished	GSC
185	VSI-480	496200	5700000	111.1	1.0	zircon	MMT	metachert, calcic dikes within Pink Peak complex	biotite-hornblende quartz monzonite	P. van der Heyden	unpublished	GSC
186	VSI-41	496900	5695075	144.3	1.0	zircon	MMT	metachert/dike of Pink Peak complex	gneissiferous felsite, biotite tuff-breccia	P. van der Heyden	unpublished	GSC
187	CS-12N	508700	5695000	26.5	0.5	zircon	MMT	Farwell diorite	spilitic diorite	P. van der Heyden	unpublished	GSC
188	95SC-2	456310	5663110	25.0	16.0	zircon	IPW	Pike within Twin Creek succession	metachert	S. G. Samuelsen	Israel et al. (2004)	UBC
189	CS-12N	523750	5738550	25.04	1.2	zircon	IPW	Wollages Assemblage	barite-hornblende quartz monzonite	P.B. Reed	unpublished	UBC
190	CS-101	521467	57390.0	25.0		zircon	IPW	Wollages Assemblage	biotite-hornblende quartz monzonite	P.B. Friedman	Friedman and van der Heyden (1992)	UBC
191	CS-122R	523950	5733200	25.00	2.0	zircon	IPW	Wollages Assemblage	sparsely porphyritic quartz, apatite, diorite felds	P.B. Reed	unpublished	GSC