

Appendix 1A

Geological Survey of Canada
Banks Island KIM samples - FIELD SAMPLE DATA

Site No.	Field Sample Weight (kg)	Material	Site Notes	Processing	Blanks and Duplicates	Geologist	Easting	Northing	Datum	UTM Zone	NTS Sheet	Latitude	Longitude	Territory
15SUV001	24.9	stream sediments	head of mid-channel bar	wet-sieved (<2.38 mm)		Rod Smith	454857.52	8128944.87	NAD 83	11	88C06	73.25042167	-118.40349032	NWT
15SUV002	22.4	stream sediments	boulder traps	wet-sieved (<2.38 mm)		Rod Smith	457959.94	8132504.44	NAD 83	11	88C06	73.28295165	-118.30949029	NWT
15SUV003	21.7	stream sediments	fan apex, boulder traps	wet-sieved (<2.38 mm)		Rod Smith	456241.55	8133225.38	NAD 83	11	88C06	73.28906833	-118.36350859	NWT
15SUV004	27.9	stream sediments	mid-channel bar; stream below RTS ¹	wet-sieved (<2.38 mm)		Rod Smith	447943.83	8080396.03	NAD 83	11	88B14	72.81381835	-118.57857278	NWT
15SUV005	23.0	stream sediments	fan apex, boulder traps	wet-sieved (<2.38 mm)		Rod Smith	444098.84	8084919.80	NAD 83	11	88B14	72.85341337	-118.69899266	NWT
15SUV006	22.4	stream sediments	boulder traps	wet-sieved (<2.38 mm)		Rod Smith	449771.18	8078516.82	NAD 83	11	88B14	72.79740167	-118.52173949	NWT
15SUV008	26.5	stream sediments	dry stream bed	bulk		Rod Smith	458685.61	8142048.90	NAD 83	11	88C06	73.36862832	-118.29332179	NWT
15SUV009	25.3	stream sediments	dry stream bed	bulk		Rod Smith	457837.63	8143428.04	NAD 83	11	88C06	73.38082165	-118.32081176	NWT
15SUV010	25.6	stream sediments	dry stream bed	wet-sieved (<2.38 mm)		Rod Smith	475603.60	8154097.05	NAD 83	11	88C07	73.47922657	-117.76864510	NWT
15SUV014	20.1	stream sediments	head of point bar at fan apex	wet-sieved (<2.38 mm)		Rod Smith	466238.53	8154831.07	NAD 83	11	88C06	73.48451828	-118.06406164	NWT
15SUV015	24.2	Beaufort Fm. (fluvial)	2+ m slump headwall exposure	bulk		Rod Smith	466865.00	8154422.00	NAD 83	11	88C06	73.48095108	-118.04409602	NWT
15SUV017	18.6	glaciofluvial		bulk	Bathurst blank #98									
15SUV018	21.9	Beaufort Fm. (fluvial)	dug pit; 0.7 m	bulk	duplicate of 15SUV018	Rod Smith	434707.70	8155675.96	NAD 83	11	88C05	73.48470678	-119.05811461	NWT
15SUV019	27.3	Beaufort Fm. (fluvial)	dug pit; 1 m; field duplicate sample of 15SUV018	bulk		Rod Smith	434688.84	8155700.05	NAD 83	11	88C05	73.48491678	-119.05873461	NWT
15SUV020	24.0	stream sediments	boulder traps	wet-sieved (<2.38 mm)		Rod Smith	427838.92	8149909.81	NAD 83	11	88C05	73.4082848	-119.26752965	NWT
15SUV021	23.2	stream sediments	boulder traps	wet-sieved (<2.38 mm)		Rod Smith	483399.39	8128795.81	NAD 83	11	88C07	73.25318985	-117.51616231	NWT
15SUV022	23.9	till	Morgan Bluff, lowermost pink till ²	bulk		Rod Smith	403441.28	8016508.32	NAD 83	11	88B04	72.22682188	-119.83505177	NWT
15SUV023	21.9	till	Morgan Bluff, lowermost pink till ³	bulk		Rod Smith	403886.47	8016404.92	NAD 83	11	88B04	72.22608355	-119.82185844	NWT
15SUV024	16.6	fluvial	Morgan Bluff; preglacial gravel ⁴	dry-sieved (<2.38 mm)		Rod Smith	403266.93	8016636.24	NAD 83	11	88B04	72.22789355	-119.84034010	NWT
15SUV025	19.6	stream sediments	head of point bar; boulder traps	wet-sieved (<2.38 mm)		Rod Smith	519970.13	8164310.57	NAD 83	11	88C09	73.57123800	-116.36739211	NWT
15SUV026	19.9	stream sediments	head of point bar; boulder traps	wet-sieved (<2.38 mm)		Rod Smith	524684.22	8163444.27	NAD 83	11	88C09	73.56297298	-116.21843552	NWT
15SUV027	22.0	stream sediments	head of point bar; boulder traps	wet-sieved (<2.38 mm)		Rod Smith	539064.70	8167008.20	NAD 83	11	88D12	73.59273457	-115.76088398	NWT
15SUV028	25.4	Beaufort Fm. (fluvial)	dug pit; 0.7 m	bulk		Rod Smith	338951.33	8094936.39	NAD 83	10	98A15	72.89114725	-121.90956009	NWT
15SUV029	16.6	till		bulk	Linton blank #4									
15SUV030	24.7	Beaufort Fm. (fluvial)	dug pit; 0.5 m	bulk		Rod Smith	328245.00	8084207.27	NAD 83	10	98A14	72.78725563	-122.20594700	NWT
15SUV031	15.3	stream sediments	head of mid-channel bar	wet-sieved (<2.38 mm)		Rod Smith	430320.87	8091658.60	NAD 83	11	88B13	72.90985178	-119.12466907	NWT
15SUV032	19.6	stream sediments	mid-channel boulder traps	wet-sieved (<2.38 mm)		Rod Smith	444117.96	8100794.57	NAD 83	11	88B14	72.99566338	-118.71219071	NWT
15SUV033	22.1	stream sediments	boulder traps below stream confluence	wet-sieved (<2.38 mm)		Rod Smith	458769.83	8093461.24	NAD 83	11	88B14	72.93320163	-118.25871100	NWT
15SUV050	22.0	stream sediments	mid-channel boulder traps	wet-sieved (<2.38 mm)		Landen Powell	495777.75	8145017.61	NAD 83	11	88C07	73.39920300	-117.13240210	NWT
15SUV051	20.1	stream sediments	mid-channel boulder traps	dry-sieved (<2.38 mm)		Landen Powell	495772.54	8134535.16	NAD 83	11	88C07	73.30523800	-117.13184080	NWT
15SUV052	30.2	stream sediments	mid-channel bar; stream below RTS ¹	wet-sieved (<2.38 mm)	split of 15SUV031	Landen Powell	428187.09	8089267.22	NAD 83	11	88B13	72.88774100	-119.18701410	NWT
15SUV053	25.0	stream sediments	dry stream bed	wet-sieved (<2.38 mm)		Landen Powell	437108.81	8093873.99	NAD 83	11	88B14	72.93175100	-118.92000925	NWT
15SUV054	18.7	till	dug pit; 0.5 m	dry-sieved (<2.38 mm)		Landen Powell	440878.11	8108920.91	NAD 83	11	88C03	73.06762000	-118.81895377	NWT
15SUV055	13.1	stream sediments	duplicate sample of 15SUV031	wet-sieved (<2.38 mm)		Rod Smith	430320.87	8091658.60	NAD 83	11	88B13	72.90985178	-119.12466907	NWT
16SUV013	22.9	glaciofluvial	dug 2.5 below bluff face of GF terrace ⁵	bulk		Rod Smith	280578.27	7914804.06	NAD 83	10	97H04	71.23578240	-123.12088863	NWT
16SUV014	21.3	stream sediments	mid-channel bar; boulder traps	wet-sieved (<2.38 mm)		Rod Smith	276658.25	7922431.42	NAD 83	10	97H05	71.30018409	-123.25133534	NWT
16SUV015	25.1	stream sediments	apex of tributary fan	wet-sieved (<2.38 mm)		Rod Smith	279999.63	7923737.74	NAD 83	10	97H05	71.31489574	-123.16221521	NWT
16SUV016	21.4	stream sediments	mid-channel boulder traps	wet-sieved (<2.38 mm)		Rod Smith	291585.58	7929184.59	NAD 83	10	97H06	71.37376570	-122.85460483	NWT
16SUV017	26.6	glaciofluvial	Duck Hawk Bluffs; lowermost glaciofluvial ⁶	bulk		Rod Smith	200433.72	8006147.38	NAD 83	10	97G15	71.96014768	-125.69395117	NWT
16SUV018	23.3	glaciofluvial	Duck Hawk Bluffs; uppermost glaciofluvial ⁷	bulk		Rod Smith	200433.91	8006154.31	NAD 83	10	97G15	71.96020935	-125.69397451	NWT
16SUV019	15.1	till	Duck Hawk Bluffs; lower till ⁸	bulk		Rod Smith	200156.60	8006180.55	NAD 83	10	97G15	71.96008435	-125.70201460	NWT
16SUV020	16.5	till	Duck Hawk Bluffs; lower till ⁹	bulk		Rod Smith	200433.14	8006082.02	NAD 83	10	97G15	71.95956768	-125.69369617	NWT
16SUV021	16.6	till		bulk	Linton blank #22									
16SUV022	23.2	sandstone	planar cross-bed, unconsolidated Isachsen Fm	bulk		Rod Smith	402147.87	8172799.58	NAD 83	10	98D09	73.62542696	-120.11093395	NWT
16SUV023	26.2	Beaufort Fm. (fluvial)	dug pit; 0.5 m; peneplain 150 m x >1 km	bulk		Rod Smith	377188.23	8180819.82	NAD 83	10	98D09	73.68402210	-120.91904192	NWT
16SUV024	23.4	sandstone	Isachsen Fm; cross-bed and pebble-boulder conglomerate	dry-sieved (<2.38 mm)		Rod Smith	460531.75	8240666.22	NAD 83	11	88F06	74.25273334	-118.30295822	NWT
16SUV025	23.7	stream sediments	mid-channel bar, scour fill	wet-sieved (<2.38 mm)		Rod Smith	463295.66	8155067.82	NAD 83	11	88C06	73.48614996	-118.15693327	NWT
16SUV026	23.1	Beaufort Fm. (fluvial)	Beaufort Fm terrace; bluff face 3 m below top	bulk		Rod Smith	463571.72	8154100.11	NAD 83	11	88C06	73.47752496	-118.14764829	NWT
16SUV027	20.5	stream sediments	gravel-armoured channel; numerous kames around	wet-sieved (<2.38 mm)		Rod Smith	381197.27	8106088.64	NAD 83	10	98D01	73.01785704	-120.64624670	NWT
16SUV028	29.6	stream sediments	mid-channel bar, boulder traps; gravel-armoured channel	wet-sieved (<2.38 mm)		Rod Smith	390652.11	8087084.01	NAD 83	10	98A16	72.85273198	-120.32439878	NWT
16SUV029	17.2	glaciofluvial		bulk	Bathurst blank #103									
16SUV030	18.3	stream sediments	mid-channel boulder traps	wet-sieved (<2.38 mm)		Barrett Elliott	487544.60	7934701.80	NAD 83	10	97H12	71.51347000	-123.35195000	NWT

¹Sample collected in stream draining an active Retrogressive Thaw Slide (RTS)

²Morgan Bluff section; ~30 m above base; 75 cm thick till; Lithofacies 4.3 of Lakeman and England (2014)

³Morgan Bluff section; ~30 m above base; 70 cm thick till; Lithofacies 4.3 of Lakeman and England (2014); 200 m east of site 15SUV022

⁴Morgan Bluff section; preglacial/interglacial fluvial deposits; Section 3, Lithofacies 3 of Lakeman and England (2014) and the Morgan Bluff's Fm of Vincent (1982, 1983)

⁵Ice-contact glaciofluvial terrace that Vincent (1983) had previously identified a Beaufort Fm deposit

⁶Duck Hawk Bluffs; lowermost glaciofluvial outwash; West Cliff, lithofacies LFA 1 of Evans et al. (2014); 5 m above sea level; near base of LFA 1 section

⁷Duck Hawk Bluffs; lowermost glaciofluvial outwash; West Cliff, lithofacies LFA 1 of Evans et al. (2014); 20 m above sea level; near top of LFA 1 section

⁸Duck Hawk Bluffs; West Cliff, lower till, lithofacies LFA 3 of Evans et al. (2014); 26 m above sea level (base of LFA 3 section)

⁹Duck Hawk Bluffs; West Cliff, lower till, lithofacies LFA 3 of Evans et al. (2014); 30 m above sea level (mid-upper part of LFA 3 section)