803844

SOUTH TREATY GLACIER VOLCANIC ROCKS

May 6/91

SAMPLE No.	KQ- NUMBER	Na_2O	K_2O	$Na_2O + K_2O$	K_2O / Na_2O	SiO_2	SYMBOL	Plotted	$Na_2O - 2$	Type		u ✓	H_2O	CO_2	
															Identify all samples @ $< 2\% H_2O$ & $< 0.5\% CO_2$ & plot on separate diagram (i.e. "unaltered" rocks) = u
① 879694	KQ-87-81A	3.7	0.05	3.75	0.0135	41.2	□	✓	1.7	Na	= sodic				
② 879696	KQ-87-83A	2.5	0.36	2.86	0.144	81.1	△	✓	0.5	Na		u	1.7	0.0	
③ 879698	KQ-87-83B	0.6	0.41	1.01	0.683	82.7	△	✓	-	K	= potassic (u)		2.6	0.1	
④ 879699 bedded	KQ-87-83C	2.6	0.67	3.27	0.258	74.2	+	✓	0.6	sl. K		u	1.9	0.2	
⑤ 879700 pebble mudstone	~~KQ-87-84~~	~~0.8~~	~~3.85~~	~~4.65~~	~~4.813~~	~~62.3~~	?	✓	-	K					
⑥ 879703	KQ-87-85B	4.4	0.73	5.13	0.166	44.4	+	✓	2.4	Na					
⑦ 879704	KQ-87-85C	5.7	2.50	8.2	0.438	54.3	+	✓	3.7	Na					
⑧ 879705	KQ-87-85D	5.3	1.44	6.74	0.272	51.9	+	✓	3.3	Na					
⑨ 879706	KQ-87-85E	4.8	0.94	5.74	0.196	48.6	+	✓	2.8	Na					
⑩ 879708	KQ-87-85F	3.1	1.62	4.72	0.522	46.7	+	✓	1.1	Na					

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SAMPLE No.	KQ- NUMBER	Na_2O	K_2O	$Na_2O + K_2O$	K_2O / Na_2O	SiO_2	SYMBOL		$Na_2O - 2$	Type	U ✓	H_2O	CO_2	
(11) 879709	KQ-87-86	3.2	0.14	3.34	0.044	42.8	+	✓	1.2	Na = sodic				⇐ lower mafic lava below Bonty Creek lithologies
(12) 879714	KQ-87-88A	3.2	2.93	6.13	0.915	63.1	*	✓	1.2	K = potassic				
(13) 879715	KQ-87-88B	3.6	1.15	4.75	0.319	60.3	*	✓	1.6	Na				
(14) 879716	KQ-87-88C	2.6	4.91	7.51	1.888	55.7	*	✓	0.6	K	(U)	2.5	0.2	CO_2 0.2
	HIGH RIDGE NE of upper MITCHELL GLACIER													
(15) 879832	KQ-87-122	3.1	2.01	5.11	0.648	58.5	+	✓	1.1	K	(U)	2.8	0.2	
(16) 879836	KQ-87-122D	3.3	2.27	5.57	0.688	53.4	+	✓	1.3	K				
(17) 879838	KQ-87-122E	6.4	3.62	10.02	0.565	57.1	+	✓	4.4	Na	U	1.9	0.4	
(18) 879839	KQ-87-122F	3.6	2.87	6.47	0.797	60.4	+	✓	1.6	K				
(19) 879840	KQ-87-123	5.4	0.69	6.09	0.128	60.1	+	✓	3.4	Na	(U)	2.5	0.1	CO_2 0.1

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	SAMPLE No.	KQ– NUMBER	Na_2O	K_2O	Na_2O +K_2O	K_2O/ Na_2O	SiO_2	SYMBOL		Na_2O −2			U✓	H_2O	CO_2	
20	879844	KQ-87-126	2.8	3.31	6.11	1.182	58.5	*(?)	✓	0.8	K = potassic					
21		KQ-86-55	3.8	3.68	7.48	0.968	62.8	+	✓	1.8	K		U	H_2O = 2.4	CO_2 = 0.5	
22		KQ-86-56	3.0	2.29	5.29	0.763	57.4	+	✓	1.0	K					
23		KQ-86-57	3.90	1.73	5.63	0.443	72.8	Δ	✓	1.9	sl Na					
24		KQ-86-58	1.10	2.52	3.62	2.29	76.4	Δ	✓	–	K		(U)	H_2O = 2.5	CO_2 = 0.7	
		JOHN WALKER ROCKS														
25	899508	KQ-89-42	0.5	0.54	1.04	1.08	44.7	+	✓	–	thin "BC" flow in dark soil					
26	899509	KQ-89-42B	3.8	0.49	4.29	0.129	60.1	•	✓	1.8	Na					
27	899510	KQ-89-42C	3.1	4.28	7.38	1.381	59.2	•	✓	1.1	K					
28	899511	KQ-89-42D	6.8	0.3	7.1	0.044	61.2	•	✓	4.8	Na		U	2.3		0.3

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SAMPLE No.	KQ- NUMBER	Na_2O	K_2O	$Na_2O + K_2O$	K_2O / Na_2O	SiO_2	SYMBOL			$Na_2O - 2$	Type		U	H_2O	CO_2	
(29) 899513	KQ-89-44A	4.1	1.26	5.36	0.307	59.0		x	✓	2.1	Na					
(30) 899514	KQ-89-44B	2.7	2.68	5.38	0.992	60.9		x	✓	0.7	K					
(31) 899515	KQ-89-44C	4.1	2.3	6.4	0.561	63.6		x	✓	2.1	s/k		U	2.3	0.5	
(32) 899516	KQ-89-44D	2.7	3.36	6.06	1.244	58.2		x	✓	0.7	K					
(33) 899517	KQ-89-44E	3.4	3.21	6.61	0.944	57.9		x	✓	1.4	K					
(34) 869006	KQ-86-45	3.1	5.84	8.94	1.884	58.9		•	✓	1.1	K		(U)	2.5	0.7	
(35) 869008	KQ-86-46	5.4	4.76	10.16	0.881	59.9		•	✓	3.4	K		(U)	1.8	0.8	
(36) 869009	KQ-86-47	3.3	4.29	7.59	1.3	58.2		•	✓	1.3	K		U	2.3	0.4	
(37) 869010	KQ-86-48	4.0	6.68	10.68	1.67	56.8		•	✓	2.0	K					
(38) 869011	KQ-86-49	0.6	8.16	8.76	(13.6)	67.3		x	✓	~	K		U	1.7	0	

was this to be included?

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SAMPLE No.	KQ- NUMBER	Na_2O	K_2O	$Na_2O + K_2O$	K_2O / Na_2O	SiO_2	SYMBOL		$Na_2O - 2$	Type		UV	H_2O	CO_2	
(39) 869012	KQ-86-50	5.3	2.41	7.71	0.455	61.4	x	✓	3.3	Na					
(40) 869013	KQ-86-51	1.6	2.67	4.27	1.668	66.2	x	✓	-ve	K					
		NE of TREATY GOSSAN													
(41) 899722	KQ-89-121A	2.6	2.69	5.29	1.035	46.1	□	✓	0.6	K					
(42) 899723	KQ-89-121B	4.3	2.03	6.33	0.472	46.9	□	✓	2.3	sl. Na					
(43) 899724	KQ-89-121C	3.7	1.19	4.89	0.322	49.2	□	✓	1.7	sl. Na					
(44) 899725	KQ-89-121D	0.9	0.85	1.75	0.944	14.9	□	X	-	K					
(45) 899726	KQ-89-121E	3.0	4.44	7.44	1.48	74.9	△	✓	1.0	K		U	1.5	0.1	
(46) 899728	KQ-89-122A	4.2	0.77	4.97	0.183	61.6	△	✓	2.2	Na					
(47) 899729	KQ-89-122B	4.3	0.09	4.39	0.021	41.0	†	✓	2.3	Na	thin amyg bas. below			Dil. hydrite	

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(48) 899730	KQ-89-122C	0.7	10.2	10.9	14.57	68.3		△	✓	-	k		U	1.4	0	
(49) 899739	KQ-89-125B	5.4	2.12	7.52	0.392	62.6		+	✓	3.4	Na		U	2.4	0.2	
(50) 899740	KQ-89-125C	4.4	0.22	4.62	0.05	47.5		△	✓	2.4	Na					
(51) 899742	KQ-89-126A	5.0	5.5	10.5	1.1	70.0		△	✓	3.0	k		U	0.8	0.1	
(52) 899743	KQ-89-126B	3.6	7.57	11.17	2.103	69.8		△	✓	1.6	k		U	0.8	0.2	
(53) 899744	KQ-89-126C	3.6	5.39	8.99	1.497	74.9		△	✓	1.6	k		U	0.8	0.1	
(54) 899745	KQ-89-127A	2.7	6.75	9.45	2.5	74.6		△	✓	0.7	k		U	0.8	0.1	
(55) 899746	KQ-89-127B	3.7	4.38	8.08	1.184	68.0		△	✓	1.7	k		U	2	0.1	
(56) 899747	KQ-89-127C	2.3	5.53	7.83	2.404	60.3		?	✓	0.3	k		(U)	2.5	0.1	