

APPENDIX 1

Summary of chemical weathering indices

Sample	Description	Locality	CIA	PIA	CIW
CG-10B	lower part of diamictite (Krakowiak Glacier Member)	Lions Rump – Conglomerate Bluff	51	51	55
CG-10A	upper part of conglomerate	Lions Rump – Conglomerate Bluff	50	50	53
CG-8	mudrock and tuff with debris and pebbles of basalt	Lions Rump – Conglomerate Bluff	50	50	52
CG-7	coarse-grained sandstone	Lions Rump – Conglomerate Bluff	45	45	46
CG-6	lower part of conglomerate	Lions Rump – Conglomerate Bluff	46	45	48
CG-4C	mudrock with coal and wood	Lions Rump – Conglomerate Bluff	64	64	65
CG-4B	mudrock with coal and wood	Lions Rump – Conglomerate Bluff	63	63	64
CG-4A	mudrock with coal and wood	Lions Rump – Conglomerate Bluff	37	37	38
CG-3	grey tuff and breccias	Lions Rump – Conglomerate Bluff	55	56	57
CG-2	green tuff and breccias	Lions Rump – Conglomerate Bluff	44	43	45
CG-1	brown tuff-mudrock	Lions Rump – Conglomerate Bluff	74	80	82
CTPW-4.+60	regolith	Cytadela – Upper Member	59	59	61
CTPW-4.+50	regolith	Cytadela – Upper Member	60	61	62
CTPW-4.+40	regolith	Cytadela – Upper Member	61	62	64
CTPW-4.+30	regolith	Cytadela – Upper Member	63	64	64
CTPW-4.+20	regolith	Cytadela – Upper Member	63	64	64
CTPW-4.+10	regolith	Cytadela – Upper Member	60	61	62
CTPW-4.0	basalt to basaltic andesite	Cytadela – Upper Member	61	62	63
CTPW-4.-20	basalt to basaltic andesite	Cytadela – Upper Member	60	61	62
CTPW-4.-40	basalt to basaltic andesite	Cytadela – Upper Member	60	61	62
CTPW-5.+50	regolith	Cytadela – Upper Member	61	61	62
CTPW-5.+40	regolith	Cytadela – Upper Member	63	64	65
CTPW-5.+30	regolith	Cytadela – Upper Member	63	63	64
CTPW-5.+20	regolith	Cytadela – Upper Member	64	65	66
CTPW-5.+10	regolith	Cytadela – Upper Member	62	62	64
CTPW-5.0	basalt to basaltic andesite	Cytadela – Upper Member	62	63	64
CTPW-5.-20	basalt to basaltic andesite	Cytadela – Upper Member	62	62	64
CTPW-5.-40	basalt to basaltic andesite	Cytadela – Upper Member	61	62	63
CTAM-1	mudrock with coal and plant fossils	Cytadela – Lower Member	41	41	42
CTAM-2	mudrock with coal and plant fossils	Cytadela – Lower Member	63	73	80
CTAM-3	mudrock with coal and plant fossils	Cytadela – Lower Member	39	37	41
CTAM-9	mudrock with coal and plant fossils	Cytadela – Lower Member	60	65	72
CTAM-10	mudrock with coal and plant fossils	Cytadela – Lower Member	54	54	55
CTAM-12	mudrock with coal and plant fossils	Cytadela – Lower Member	56	57	61
CTAM-13	mudrock with coal and plant fossils	Cytadela – Lower Member	60	61	62
CTAM-13A	mudrock with coal and plant fossils	Cytadela – Lower Member	67	68	70
CTAM-13B	mudrock with coal and plant fossils	Cytadela – Lower Member	65	67	68
CTAM-13C	mudrock with coal and plant fossils	Cytadela – Lower Member	60	60	61
CTAM-14	mudrock with coal and plant fossils	Cytadela – Lower Member	57	57	59
CTAM-16	mudrock with coal and plant fossils	Cytadela – Lower Member	59	60	63
CT-3/1	mudrock with plant fossils	Cytadela – Lower Member	54	54	56
CT-3/2	mudrock with plant fossils	Cytadela – Lower Member	55	55	57
CT-3/3	mudrock with plant fossils	Cytadela – Lower Member	55	56	58
CT-3/4	mudrock with plant fossils	Cytadela – Lower Member	53	53	54
CT-3/5	mudrock with plant fossils	Cytadela – Lower Member	63	66	70
CT-4 mudrock	mudrock with plant fossils	Cytadela – Lower Member	51	51	53
CTAM-4	mudrock with plant fossils	Cytadela – Lower Member	55	56	57
CT-3	basalt to basaltic andesite	Cytadela – Lower Member	45	45	47
CT-4	basalt to basaltic andesite	Cytadela – Lower Member	45	45	47
S-1.1	mudstone/sandstone with plant fossils	Wawel – Dragon Glacier Moraine	52	52	55
S-3	mudstone/sandstone with plant fossils	Wawel – Dragon Glacier Moraine	65	67	69
S-2	mudstone/sandstone with plant fossils	Wawel – Dragon Glacier Moraine	73	75	77

Sample	Description	Locality	CIA	PIA	CIW
AMQ-11 (4)	mudstone/sandstone with plant fossils	Wawel – Dragon Glacier Moraine	55	57	64
AMQ-11 (9)	mudstone/sandstone with plant fossils	Wawe – Dragon Glacier Moraine	57	59	61
AMQ flora SMOK (10)	mudstone/sandstone with plant fossils	Wawel – Dragon Glacier Moraine	61	62	62
AMQ-12A block (33)	mudstone/sandstone with plant fossils	Wawel – Dragon Glacier Moraine	59	59	60
AMQ-11 (5a)	mudstone/sandstone with plant fossils	Wawel – Dragon Glacier Moraine	64	64	64
AMQ-11 (5b)	mudstone/sandstone with plant fossils	Wawel – Dragon Glacier Moraine	62	62	62
AMQ-14B (a)	mudstone/sandstone with plant fossils	Wawel – Dragon Glacier Moraine	57	59	65
AMQ-14B (b)	mudstone/sandstone with plant fossils	Wawel – Dragon Glacier Moraine	55	56	62
AMQ-14B (c)	mudstone/sandstone with plant fossils	Wawel – Dragon Glacier Moraine	57	59	62
Wawel Smok (matrix)	mudstone/sandstone with plant fossils	Wawel – Dragon Glacier Moraine	52	52	54
Wawel Smok (bomb I)	volcanic bomb	Wawel – Dragon Glacier Moraine	44	44	45
Wawel Smok (bomb II)	volcanic bomb	Wawel – Dragon Glacier Moraine	42	42	43
AMQ-08 (27)	mudstone/sandstone with plant fossils	Wawel – Dragon Glacier Moraine	58	58	60
AMQ-08 (26)	mudstone/sandstone with plant fossils	Wawel – Dragon Glacier Moraine	60	60	61
AMQ-08 (25)	mudstone/sandstone with plant fossils	Wawel – Dragon Glacier Moraine	53	53	56
AMQ-11 (6a)	mudstone/sandstone with plant fossils	Wawel – Dragon Glacier Moraine	56	56	58
AMQ-11 (6b)	mudstone/sandstone with plant fossils	Wawel – Dragon Glacier Moraine	56	56	58
AMQ-14 (21a-matrix)	mudstone/sandstone with plant fossils	Wawel – Dragon Glacier Moraine	55	55	56
AMQ-12 (36)	mudstone/sandstone with plant fossils	Wawel – Dragon Glacier Moraine	57	57	59