

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	
2	Sample No.	Unit	Map	Latitude	Longitude	Major Elements in wt.%, normalized using FeO*										Wet Chemistry (wt. %)						XRF Trace Elements (in ppm)												
3				N 41°	W 121°	SiO ₂	Al ₂ O ₃	FeO*	MgO	CaO	Na ₂ O	K ₂ O	TiO ₂	P ₂ O ₅	MnO	ORIGINAL TOTAL	LOI	Na ₂ O	K ₂ O	FeO	H ₂ O+	H ₂ O-	CO ₂	Rb	Sr	Y	Zr	Nb	Ba	Ni	Cu	Zn	Cr	
4	18.M	rec		40.81	35.38	72.6	14.4	2.15	0.39	1.22	4.40	4.32	0.43	0.06	0.04	100.25	0.98							112	96	35	349	13	893	9	9	33	2	
5	19.M	rec		40.77	35.37	72.6	14.3	2.14	0.39	1.22	4.42	4.36	0.42	0.06	0.04	99.50	0.49			1.53	0.34	0.20	0.07	117	105	37	343	15	894	10	12	31	4	
6	44.M	bl		34.70	35.10	50.6	21.4	8.16	4.12	10.65	3.15	0.50	1.08	0.17	0.13	100.43	0.14							13	522	20	102	4	281	33	59	43	38	
7	75.M	bpA		48.00	25.10	50.6	17.2	8.65	8.32	11.18	2.49	0.46	0.88	0.08	0.16	100.24								13	196	27	89	5	129	152	130	39	232	
8	107.M	anr		37.10	34.30	62.7	16.2	6.18	1.75	4.16	5.26	1.85	1.27	0.46	0.15	99.91	0.16	5.67	1.880	4.99	0.24	0.07	0.07	40	390	33	239	10	808	12	23	86	0	
9	112.M	mSP		33.20	32.10	53.6	17.2	8.96	4.79	9.20	3.81	0.77	1.23	0.23	0.16	100.78	0.09							20	591	33	124	7	287	26	88	60	71	
10	114.M	aac		34.91	32.98	58.1	16.9	7.86	2.92	6.17	4.70	1.34	1.49	0.41	0.16	99.58	0.02																	
11	116.M	anr		36.40	38.00	59.9	16.5	7.26	2.27	5.23	4.88	1.50	1.63	0.66	0.21	99.81	0.42	5.18	1.526	5.13	0.51	0.11	0.22	31	434	31	198	8	684	2	19	114	0	
12	133.M	dsk		38.60	42.10	69.7	15.1	2.88	1.30	2.54	3.90	3.97	0.49	0.11	0.05	98.60	0.51																	
13	136.M	dtA		40.80	45.00	63.3	16.9	5.42	1.99	4.28	4.50	2.30	0.93	0.25	0.10	99.30	0.64																	
14	137.M	dec		40.70	34.28	70.2	15.2	2.70	0.79	2.08	4.42	3.88	0.51	0.10	0.05	98.81	0.16							114	184	33	291	12	791	0	18	41	4	
15	140.M	muc		41.20	37.20	53.1	19.8	7.74	4.61	9.07	3.35	1.01	0.96	0.17	0.14	100.81	0.10							27	440	23	139	5	360					
16	142.M	rgf		41.70	38.90	75.7	13.5	1.20	0.22	0.82	3.73	4.64	0.19	0.00	0.02	99.71	0.86			0.85	0.25	0.07	0.06	133	71	27	176	8	773	10	8	19	1	
17	143.M	mfh		41.70	39.00	54.9	17.8	8.04	4.72	8.42	3.77	0.85	1.13	0.23	0.14	99.65	0.26							25	605	25	130	5	390	17	71	66	76	
18	148.M	b8		41.17	34.63	51.4	17.9	9.00	6.81	9.58	3.14	0.62	1.14	0.25	0.16	99.54	0.02																	
19	155.M	rcb		39.70	27.40	77.2	12.5	1.05	0.06	0.40	4.23	4.47	0.03	0.00	0.03	99.09	0.63	4.44	4.540	0.62	0.32	0.14	0.03	147	13	61	147	18	35					
20	166.M	anl		41.30	40.60	60.2	16.2	7.20	2.51	5.53	4.58	2.00	1.30	0.36	0.15	99.67	0.93	4.77	1.981	5.76	0.75	0.10	0.14	48	328	39	244	11	681					
21	168.M	bea		41.92	40.96	50.5	17.8	10.72	5.89	9.51	3.17	0.50	1.52	0.26	0.18	100.25	0.22							16	490	28	107	8	299					
22	171.M	mnl		41.62	41.71	53.5	17.2	9.17	4.87	9.01	3.72	0.87	1.28	0.22	0.16	99.17								24	490	34	140	5	285	30	84	59	74	
23	183.M	mnl		40.50	38.20	53.4	17.2	9.16	4.93	9.13	3.74	0.75	1.27	0.23	0.16	99.27								22	505	32	134	7	275	28	85	57	70	
24	192.M	rgf		28.22	43.45	75.4	13.5	1.23	0.24	0.85	3.89	4.64	0.20	0.03	0.02	99.35	0.35							134	81	31	183	11	765					
25	194.M	dtA		32.60	43.40	63.6	16.7	5.33	1.82	4.41	4.62	2.23	0.92	0.22	0.10	99.29	0.54							54	392	27	203	6	561	11	43	57	4	
26	200.M	awh		37.90	43.70	64.4	16.1	5.03	1.68	3.94	4.85	2.67	0.93	0.27	0.10	99.39	<0.01							79	385	30	192	6	640					
27	201.M	anl		38.50	43.70	58.0	16.9	7.80	3.12	6.42	4.41	1.65	1.21	0.29	0.13	99.44	0.06							36	540	26	174	7	520					
28	202.M	anl		39.10	44.00	63.0	16.5	5.71	1.97	4.58	4.54	2.38	1.01	0.25	0.11	99.56	0.36	4.84	2.376	4.21	0.29	0.09	0.10	62	383	29	217	7	628	10	12	70	3	
29	203.M	anl		40.00	43.80	60.2	16.6	6.90	2.60	5.52	4.63	1.97	1.14	0.29	0.13	99.45	0.01							46	480	30	198	5	550					
30	218.M	anr		40.90	38.00	60.8	16.4	6.73	2.22	4.77	5.17	1.69	1.47	0.55	0.15	100.04		5.39	1.703	4.69	0.31	0.06	0.11	36	419	31	210	8	694			50	108	
31	219.M	arr		40.90	38.40	57.3	17.1	6.59	5.30	7.23	3.51	1.85	0.86	0.15	0.13	100.09	0.36							51	226	27	185	6	442					
32	253.M	rgf		31.24	42.00	75.2	13.6	1.26	0.29	0.85	3.94	4.65	0.21	0.00	0.03	99.49	0.02							140	76	29	191	12	772					
33	256.M	rsl		38.50	24.60	75.0	13.5	1.38	0.36	0.91	3.82	4.80	0.24	0.00	0.03	99.52	0.18							148	84	29	214	12	765					
34	275.M	mbp		36.30	40.50	54.4	18.6	7.77	4.39	8.79	3.75	0.82	1.12	0.23	0.14	100.33	0.25							20	630	17	114	6	369					
35	276.M	rng		37.00	31.20	71.1	14.7	2.57	0.73	1.91	3.89	4.50	0.49	0.11	0.04	99.16	0.74							143	127	32	294	8	750					
36	285.M	bl		26.60	27.60	51.2	21.0	7.39	5.21	10.70	2.91	0.39	0.94	0.16	0.13	99.88	0.28							9	625	15	96	7	214	65	57	47	84	
37	291.M	reg		35.72	27.17	76.4	13.1	1.12	0.00	0.44	4.07	4.77	0.06	0.00	0.05	98.58	0.60							139	16	56	170	16	101					
38	293.M	deg		35.80	27.90	69.3	15.4	3.10	0.84	2.37	4.56	3.60	0.63	0.15	0.06	98.95	0.40							97	210	32	270	9	736					
39	296.M	beg		35.30	27.60	51.0	19.3	7.90	7.34	10.10	2.95	0.34	0.80	0.10	0.14	100.85	0.18							10	571	16	75	7	169					
40	299.M	bl		35.60	26.60	53.0	21.1	6.51	4.08	10.10	3.23	0.70	0.91	0.19	0.11	99.69	0.05							17	688	17	110	5	308	23		59		
41	306.M	drs		33.83	30.94	63.4	16.2	5.74	1.80	4.42	4.76	2.10	1.09	0.31	0.12	99.79	0.50	5.02	2.142	3.92	0.19	0.13	0.09	55	400	36	222	11	608	13	23	77	4	
42	313.M	bl		34.80	30.60	55.7	17.5	8.06	4.28	8.21	3.82	0.85	1.14	0.23	0.14	99.56	0.31							25	592	19	115	5	377					
43	331.M	drs		34.82	29.82	63.0	16.3	5.81	1.91	4.42	4.88	2.09	1.11	0.31	0.13	100.35		5.02	2.094					57										

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG				
2	Sample No.	Unit	Map	Latitude	Longitude	Major Elements in wt.%, normalized using FeO*										ORIGINAL TOTAL						Wet Chemistry (wt. %)						XRF Trace Elements (in ppm)									
				N 41°	W 121°	SiO ₂	Al ₂ O ₃	FeO*	MgO	CaO	Na ₂ O	K ₂ O	TiO ₂	P ₂ O ₅	MnO	LOI	Na ₂ O	K ₂ O	FeO	H ₂ O+	H ₂ O-	CO ₂	Rb	Sr	Y	Zr	Nb	Ba	Ni	Cu	Zn	Cr					
76	478.M	mwr		32.13	45.93	53.7	19.3	8.82	3.70	8.15	3.94	0.64	1.29	0.27	0.15	99.28	1.30																				
77	479.M	atm		32.61	47.42	60.2	17.9	6.50	2.32	5.40	4.61	1.71	0.94	0.25	0.12	99.39	0.41																				
78	480.M	atm		33.00	46.60	60.8	17.5	6.41	2.21	5.34	4.79	1.63	0.93	0.25	0.13	100.31	< 0.01																				
79	484.M	atm		34.10	44.40	60.5	17.7	6.49	2.17	5.47	4.60	1.74	0.89	0.35	0.13	99.75	0.64																				
80	486.M	afr		31.54	45.45	60.8	18.8	5.02	3.42	6.02	3.65	1.50	0.58	0.16	0.08	98.58	1.08																				
81	487.M	mrl		31.20	45.60	54.7	16.7	7.45	7.72	8.41	3.20	0.84	0.77	0.16	0.13	99.81	0.37	3.31	0.850																		
82	497.M	aet		32.10	47.70	59.1	18.0	5.97	3.74	6.89	3.74	1.48	0.74	0.20	0.10	99.83	0.36	3.74	1.444																		
83	504.M	atm		33.00	47.67	59.7	18.2	6.63	2.20	5.59	4.68	1.58	0.89	0.40	0.15	99.46	0.68																				
84	505.M	atm		32.50	48.20	60.1	17.8	6.61	2.38	5.49	4.49	1.75	0.95	0.31	0.12	99.58	0.39																				
85	512.M	ael		31.24	45.48	60.4	18.9	5.18	2.73	6.43	4.18	1.34	0.62	0.16	0.09	99.74	0.43	4.28	1.342																		
86	517.M	dls		30.95	46.23	68.7	15.7	3.24	0.95	2.47	4.68	3.41	0.59	0.14	0.06	99.57	0.15																				
87	534.M	awh		34.80	40.00	61.1	17.6	5.60	3.16	5.72	3.59	2.06	0.78	0.24	0.10	98.65	1.11																				
88	554.M	rmh		35.90	34.10	71.7	14.9	2.17	0.64	1.70	4.48	3.90	0.37	0.08	0.05	99.30	0.31																				
89	564.M	drs		34.30	33.60	62.3	16.4	6.11	1.85	4.38	5.27	1.88	1.27	0.44	0.14	99.07		5.41	1.889	4.72	0.13	0.06	0.11														
90	565.M	drs		35.00	32.10	64.5	15.9	5.19	1.60	3.87	5.04	2.32	1.05	0.34	0.12	99.15	0.19																				
91	579.M	ib9		40.20	32.30	50.5	18.7	9.78	6.24	9.24	3.40	0.56	1.23	0.24	0.17	99.57	0.11																				
92	581.M	mtc		40.70	31.60	55.6	18.0	7.36	4.58	7.95	3.72	1.35	1.04	0.33	0.12	99.24	0.06																				
93	583.M	mhi		40.70	33.00	54.4	17.7	8.13	5.11	7.74	3.72	1.42	1.26	0.41	0.14	98.84	0.42																				
94	592.M	mni		40.40	30.50	54.8	17.9	7.36	5.23	8.54	3.56	1.24	1.03	0.21	0.13	100.25	0.26	3.69	1.251																		
95	593.M	lbc		39.32	27.45	51.2	18.2	7.98	7.20	10.80	2.97	0.46	0.88	0.16	0.14	98.98				5.56	0.33	0.11															
96	595.M	lbc		39.60	32.60	51.8	16.9	9.53	6.14	9.88	3.42	0.62	1.27	0.21	0.17	99.23				7.76	0.40	0.13															
97	605.M	lmc		41.50	29.90	56.1	17.6	7.59	4.27	7.43	3.87	1.47	1.14	0.38	0.13	99.18	0.1																				
98	611.M	ama		39.60	34.40	57.4	17.0	7.49	4.28	7.03	3.97	1.56	1.01	0.20	0.14	99.16	0.18																				
99	620.M	asm		40.40	33.00	58.6	16.6	8.07	2.78	5.89	4.39	1.89	1.33	0.32	0.15	99.18	0.24	4.48	1.897	5.50	0.53	0.06															
100	625.M	lbg		41.08	27.76	49.4	18.0	9.72	7.37	9.98	3.33	0.41	1.36	0.26	0.17	100.18				8.45	0.22	0.06															
101	631.M	lbt		38.90	19.60	48.1	18.5	8.68	9.68	11.51	2.49	0.08	0.71	0.07	0.16	100.03	0.04			7.66	0.27	0.14															
102	638.M	laib		37.64	26.30	58.0	17.4	6.42	4.43	6.89	3.70	1.83	0.87	0.32	0.11	98.27	0.44			5.03	0.65	0.08															
103	640.M	lbp		51.30	23.20	48.0	17.9	9.66	8.52	10.43	3.14	0.56	1.28	0.28	0.17	99.77																					
104	646.M	lbmc		41.90	32.70	55.2	17.1	7.03	6.69	8.56	3.06	1.37	0.69	0.11	0.13	98.76	0.64	3.15	1.357	5.71	0.65	0.17	0.01														
105	649.M	lbtm		38.20	36.40	51.9	17.4	8.36	7.37	10.07	2.89	0.86	0.91	0.14	0.15	99.42	0.04			7.37	0.45	0.12															
106	668.M	laug		37.60	30.30	53.6	18.2	7.68	5.45	9.42	3.50	0.82	1.01	0.22	0.14	99.38	0.15																				
107	678.M	lanh		37.70	31.70	58.0	17.0	7.52	3.08	6.78	4.46	1.38	1.34	0.34	0.14	99.26	0.63	4.44	1.387	5.18	0.81	0.16															
108	683.M	lmfh		40.55	43.33	54.1	18.1	7.95	5.09	8.88	3.63	0.77	1.10	0.25	0.14	99.23				4.86	0.25	0.15															
109	684.M	lrcw		40.70	38.80	73.4	14.0	1.71	0.40	1.16	4.17	4.69	0.31	0.07	0.03	98.51	0.32			1.19	0.16	0.08															
110	685.M	lrgf		41.00	38.80	56.6	13.4	1.19	0.25	0.82	3.85	4.72	0.19	0.00	0.02	98.04	0.37			0.79	0.19	0.07															
111	687.M	ama		40.60	34.00	56.7	16.9	8.27	3.68	7.52	4.13	1.15	1.28	0.27	0.15	99.21	0.15			5.74	0.39	0.06															
112	688.M	lbcu		40.30	33.30	52.5	17.1	9.25	6.52	8.85	3.30	0.96	1.15	0.17	0.17	99.25	0.04			7.74	0.53	0.13															
113	689.M	lbyb		30.40	23.60	50.6	18.3	8.00	7.64	10.43	3.02	0.58	1.00	0.21	0.14	99.60	0.03			6.24	0.33	0.10															
114	691.M	lbrf		27.65	29.55	50.1	16.6	10.56	6.48	9.55	3.39	0.81	1.92	0.42	0.19	99.20				8.88	0.24	0.13															
115	700.M	lmes		40.70	22.20	54.6	17.5	7.51	5.97	8.36	3.51	1.23	0.97	0.20	0.14	99.15	0.53	3.49	1.230	6.00	0.61	0.12															
116	701.M	lbs		40.10	24.10	51.1	18.2	8.47	7.16	9.67	3.25	0.63	1.06	0.24	0.15	99.68				5.94	0.24	0.11															
117	702.M	lbnf		39.30	35.70	52.3	18.6	7.61	6.77	10.26	2.93	0.49	0.77	0.14	0.14	99.31	0.12																				
118	703.M	lasc		40.80	35.80	58.5	17.4	6.47	3.74	7.14	3.75	1.65	0.96	0.22	0.12	98.92	0.55																				
119	707.M	lmhi		40.80	33.10	55.1	17.4	7.93	4.92	7.51	3.81	1.51	1.23	0.41	0.14	98.88	0.4																				
120	717.M	la3		41.70	35.50	57.5	16.4	8.13	3.57	6.95	4.25	1.52	1.28	0.25	0.15	99.68				6.82	0.21	0.12	0.01														
121	720.M	lmuc		41.40	37.70	52.9	20.0	7.51	4.81	9.41	3.13	0.94	0.94	0.20	0.13	98.47	0.62																				
122	721.M	lmwc		41.38	37.53	54.4	18.7	7.28	5.24	8.71	3.64	0.90	0.86	0.19	0.13	99.36	0.18			5.40	0.45	0.07															
123	723.M	lmnl		41.50	37.80	55.																															

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2	Sample No.	Unit	Map	Latitude	Longitude	Major Elements in wt.%, normalized using FeO*										ORIGINAL						Wet Chemistry (wt. %)						XRF Trace Elements (in ppm)					
				N 41°	W 121°	SiO ₂	Al ₂ O ₃	FeO*	MgO	CaO	Na ₂ O	K ₂ O	TiO ₂	P ₂ O ₅	MnO	TOTAL	LOI	Na ₂ O	K ₂ O	FeO	H ₂ O+	H ₂ O-	CO ₂	Rb	Sr	Y	Zr	Nb	Ba	Ni	Cu	Zn	Cr
149	830.M	rse		41.02	35.44	73.9	14.4	1.58	0.29	1.10	4.15	4.24	0.30	0.05	0.03	98.39	0.79	4.32	4.290	0.97	0.66	0.21	0.04	116	117	30	213	9	803			30	
150	853.M	beb		41.50	24.10	51.0	18.0	8.73	7.27	9.72	3.17	0.61	1.06	0.24	0.16	100.21	0.09	3.29	0.639	7.20	0.44	0.12	0.04	12	421	22	122	5	304				
151	887.M	bwc		28.20	38.30	49.9	18.0	8.31	8.65	10.33	2.90	0.62	0.98	0.16	0.15	100.63		3.01	0.639	7.41	0.13	0.23	0.03	14	259	23	113	5	157	139		45	
152	898.M	mhi		43.50	31.30	56.1	17.7	7.17	4.80	7.39	3.64	1.67	1.06	0.35	0.12	100.24	0.34	3.88	1.697	5.51	0.57	0.13	0.03	34	494	25	168	8	499				
153	900.M	dt		32.60	43.40	65.5	16.2	4.61	1.44	3.55	4.91	2.56	0.89	0.22	0.09	99.12	0.27	5.17	2.550	3.21	0.34	0.23	0.04	59	354	28	222	5	630		25	70	
154	912.M	ds		32.50	32.10	69.9	14.9	2.77	1.29	2.50	3.98	4.02	0.48	0.12	0.05	98.88	0.69	4.09	4.100	2.03	0.61	0.03	0.03	128	163	29	241	9	672			37	
155	919.M	bu		33.30	32.60	50.4	18.6	7.76	8.29	10.42	2.97	0.44	0.83	0.10	0.14	100.64		3.02	0.455	6.59	0.26	0.06	0.05	8	286	21	85	2	107				
156	928.M	msp		33.50	31.40	53.3	18.5	7.73	5.50	9.42	3.46	0.79	1.03	0.21	0.14	99.98	0.04	3.71	0.804	4.44	0.26	0.02	0.03	16	663	20	120	5	246				
157	933.M	m14		33.00	33.00	53.0	18.7	7.60	5.54	9.55	3.41	0.79	1.00	0.25	0.14	98.58	0.76																
158	934.M	brf		31.30	30.70	50.5	16.6	10.15	6.56	9.51	3.39	0.85	1.81	0.38	0.19	100.43		3.53	0.870	8.69	0.46	0.07	0.02	16	298	34	197	6	252				
159	935.M	bnb		31.13	31.30	49.2	18.7	9.63	7.04	9.87	3.29	0.38	1.44	0.34	0.17	100.13	0.21	3.46	0.393	6.87	0.66	0.05	0.03	4	444	24	138	6	319	90	85	78	
160	939.M	bsp		31.50	32.20	53.3	18.1	8.52	5.11	9.13	3.59	0.78	1.12	0.23	0.15	98.88	0.39																
161	940.M	msp		31.80	32.30	53.3	18.3	7.88	5.43	9.33	3.55	0.84	1.06	0.24	0.14	98.86	0.2																
162	941.M	bsp		31.80	32.80	52.1	18.9	8.30	5.49	9.92	3.33	0.62	1.05	0.19	0.14	100.41	0.14	3.56	0.636	4.85	0.44	0.03	0.03	10	610	19	99	3	203				
163	942.M	asr		32.10	34.90	61.5	16.0	6.68	2.03	4.60	5.32	1.74	1.44	0.50	0.16	99.93		5.67	1.768	5.29	0.22	0.04	0.05	39	416	35	228	13	754	11	37	69	1
164	955.M	adh		47.50	33.70	57.7	16.7	6.45	5.20	7.37	3.68	1.68	0.85	0.19	0.13	99.86	0.19			5.24	0.27	0.11	0.08	41	225	29	200	6	391				
165	967.M	adh		47.35	33.79	57.8	16.8	6.47	5.14	7.26	3.64	1.69	0.86	0.20	0.13	99.36	0.59			2.55	0.29	0.18	0.19	42	237	30	202	7	424				
166	977.M	bnw		46.17	35.52	50.7	17.0	8.37	8.95	9.13	3.26	0.85	1.27	0.30	0.15	100.47				6.78	0.16	0.07	0.05	14	403	21	138	10	242				
167	979.M	bpa		46.45	27.12	51.0	17.5	8.22	8.41	10.63	2.66	0.61	0.82	0.09	0.15	100.60	0.14			6.24	0.23	0.06	0.03	13	199	22	94	3	166				
168	980.M	bpa		46.54	26.86	49.6	17.9	8.26	9.19	11.21	2.50	0.35	0.78	0.08	0.15	100.81				7.29	0.24	0.07	0.08	7	204	20	74	1	101	150	115	50	
169	982.M	bmc		49.70	29.60	49.3	18.2	8.78	8.98	10.63	2.76	0.32	0.84	0.11	0.16	100.66		2.86	0.326	7.58	0.11	0.03	0.02	7	266	21	79	2	96	140	56	55	
170	983.M	bdh		45.50	34.00	51.4	17.2	8.71	7.54	10.18	2.82	0.76	1.00	0.15	0.16	100.13	0.20			7.71	0.36	0.10	0.03	15	200	26	118	5	198				
171	984.M	bng		41.50	26.90	48.8	17.9	10.20	7.60	10.23	3.19	0.25	1.45	0.25	0.19	100.79				8.58	0.28	0.04	0.02	0	317	26	121	2	122	65	90	70	
172	990.M	bmc		44.60	32.70	50.2	17.9	8.67	8.45	10.43	2.80	0.48	0.87	0.11	0.19	100.66	0.04	2.94	0.534	7.42	0.23	0.07	0.02	9	265	22	87	3	128	140	70	60	
173	1017.M	bwc		26.40	38.40	53.7	17.0	7.55	7.25	8.93	3.04	1.26	0.95	0.16	0.13	100.65	0.28							35	245	24	140	5	255	120	80	56	
174	1019.M	byb		20.80	33.00	50.1	18.3	9.09	7.30	10.30	3.09	0.40	1.07	0.18	0.16	101.00								8	397	21	96	6	235	72	87	74	
175	1027.M	anh		41.20	28.10	57.7	17.6	7.18	3.14	7.13	4.17	1.36	1.26	0.31	0.14	99.44	0.86			4.53	0.63	0.29	0.07	24	567	28	160	7	474			81	
176	1028.M	bmc		43.90	30.60	53.8	17.1	7.68	7.39	9.04	2.92	1.09	0.79	0.11	0.14	100.37	0.23	3.10	1.109	6.29	0.38	0.07	0.02	30	249	24	115	4	250	109	65	56	
177	1031.M	bsc		40.40	36.40	52.1	17.9	8.42	6.63	9.70	3.23	0.62	1.00	0.18	0.15	100.84				7.54	0.07	0.07		8	366	22	102	3	211	62		64	
178	1039.M	asb		43.64	31.16	56.8	18.5	7.16	4.38	6.98	3.36	1.37	1.04	0.34	0.12	97.66	2.91							29	458	24	177	9	527	88	52	76	
179	1064.M	byb		23.70	21.10	50.7	17.9	8.01	8.11	10.69	2.90	0.53	0.85	0.16	0.15	101.02	0.01	3.03	0.518					11	366	19	93	8	197	77	82	58	
180	1068.M	asr		33.10	37.90	60.3	16.2	7.11	2.30	5.04	5.22	1.62	1.55	0.50	0.16	100.39				5.33	1.533			35	432	30	211	8	711	40		100	
181	1076.M	aeg		31.93	37.55	56.4	16.8	8.11	3.96	7.90	4.15	1.01	1.24	0.26	0.15	100.32	0.46	4.21	0.959					22	549	23	138	7	408			95	85
182	1086.M	men		46.72	32.63	53.1	17.8	9.08	5.81	8.47	3.36	0.94	1.12	0.23	0.16	100.11	0.46							21	423	24	123	5	336	70	75	88	
183	1089.M	acc		31.10	39.50	58.8	16.8	7.30	3.32	6.41	4.23	1.65	1.12	0.24	0.14	99.63	1.04	4.28	1.600					39	314	35	206	5	488	20	50	80	
184	1092.M	mgf		31.50	40.70	54.3	16.7	7.44	7.20	9.30	2.84	1.21	0.79	0.09	0.13	100.69	0.55	2.93	1.182					33	179	23	110	3	230	110	100	60	
185	1094.M	mug		31.80	39.60	54.5	17.8	8.01	4.99	8.80	3.74	0.76	1.11	0.23	0.14	101.13	0.20	3.83	0.728					15	592	19	114	3	331	30	70	70	
186	1095.M	mug		32.60	39.30	53.4	19.1	7.41	4.95	9.60	3.48	0.67	0.98	0.20	0.13	100.58	0.36	3.55	0.633					15	634	21	102	2	303	40	70	65	
187	1096.M	m17		32.07	38.19	54.0	17.1	9.53	4.72	8.34	3.78	0.77	1.35	0.23	0.18	100.21	0.22	3.85	0.734					13	383	24	133	2	339	25	40	90	
188	1097.M	asr		33.22	38.40	62.0	16.0	6.45	1.95	4.45	5.33	1.86	1.36	0.47	0.16	99.33	0.79	5.65	1.793					38	407	32	227	9	780			25	95
189	1098.M	brh		33.20	38.30	50.6	18.0	9.36	7.04	9.76	3.26	0.46	1.14	0.19	0.17	101.02		3.34	0.430					6	416	22	105	4	298	80	100	75	
190	1101.M-A	mug		31.80	41.40	54.6	18.6	7.99	4.40	8.49	3.64	0.78	1.16	0.27	0.15	98.93	0.58							20	620	24	124	380					
191	1101.M-B	mug		31.80	41.40	56.0	17.0	8.20	4.16	7.91	4.06	1.02	1.22	0.26	0.15	99.51	0.1							23	580	24	134	390					
192	1110.M	mwg		32.10	41.40	56.4	17.2	8.12	3.80	7.58	4.21	1.03	1.26	0.30	0.15	99.19	0.2																
193	1113.M	mwg		32.3																													

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	
2	Sample No.	Unit	Map	Latitude	Longitude	Major Elements in wt.%, normalized using FeO*										ORIGINAL TOTAL		Wet Chemistry (wt. %)					XRF Trace Elements (in ppm)											
				N 41°	W 121°	SiO ₂	Al ₂ O ₃	FeO*	MgO	CaO	Na ₂ O	K ₂ O	TiO ₂	P ₂ O ₅	MnO	LOI	Na ₂ O	K ₂ O	FeO	H ₂ O+	H ₂ O-	CO ₂	Rb	Sr	Y	Zr	Nb	Ba	Ni	Cu	Zn	Cr		
222	1239.M	b13		30.90	35.30	52.2	19.2	8.01	5.78	9.43	3.40	0.53	1.07	0.26	0.14	98.39	1.34																	
223	1240.M	m16		32.30	36.00	55.7	17.4	8.90	3.25	6.85	4.62	0.97	1.66	0.40	0.16	98.40	1.1																	
224	1241.M	bsh		30.10	36.30	50.6	19.6	8.05	6.76	10.31	2.99	0.33	0.96	0.22	0.16	97.86	1.4																	
225	1242.M	ay		29.40	34.02	58.5	16.6	7.72	2.85	6.18	4.71	1.49	1.45	0.38	0.15	99.29	0.71	4.77	1.487				31	493	28	185	8	602	< 20	55	90			
226	1245.M	aug		36.60	28.40	54.7	16.9	9.54	3.87	8.07	4.05	1.06	1.40	0.26	0.16	100.09	0.11	4.21	1.059				24	547	26	141	3	303	< 20	65	85			
227	1246.M	bl		35.40	26.20	55.1	17.5	8.02	4.71	8.54	3.80	0.86	1.12	0.24	0.14	100.23	0.27	3.97	0.86				19	601	23	120	6	363	25	80	80			
228	1248.M	bac		35.50	33.60	50.1	17.8	9.49	6.91	10.55	3.28	0.31	1.19	0.19	0.17	100.60	< 0.01	3.37	0.331				4	368	26	106	2	237	65	95	75			
229	1250.M	bph		29.83	38.27	54.3	18.0	7.88	4.85	8.91	3.61	0.93	1.09	0.27	0.14	99.60	0.45																	
230	1254.M	bph		29.40	38.10	49.0	17.8	9.14	8.60	11.36	2.58	0.29	0.95	0.13	0.16	100.44	0.09	3.23	0.576				13	695	17	90	4	185	35	75	62			
231	1262.M	mug		28.80	39.10	54.3	17.2	8.70	5.02	8.51	3.78	0.93	1.19	0.20	0.16	100.12	0.22	3.9	0.928				19	406	27	135	4	299	35	65	80			
232	1267.M	bwh		36.02	34.70	52.9	17.6	9.46	5.44	8.38	3.59	0.94	1.30	0.27	0.16	99.97	0.29	3.72	0.938				18	433	24	136	6	354	50	75	80			
233	1270.M	bsp		30.50	31.20	51.8	18.7	8.63	5.57	9.95	3.34	0.54	1.08	0.19	0.15	100.18	0.39	3.46	0.554				12	621	21	112	3	220	35	90	75			
234	1271.M	bsp		30.70	31.40	53.0	18.3	8.70	5.67	9.33	2.87	0.64	1.11	0.23	0.16	98.88	0.51																	
235	1272.M	b15		29.00	32.00	52.0	19.2	7.92	5.85	9.83	3.24	0.60	1.01	0.22	0.15	99.77	0.5						18	671	25	125	5	256	47	58	63	80		
236	1279.M	mug		29.60	41.20	55.9	16.6	8.53	4.48	7.78	3.89	1.24	1.20	0.21	0.16	100.11	0.46	4.04	1.241				30	364	29	156	5	368	30	70	80			
237	1281.M	bl		34.90	31.30	53.7	17.9	8.34	5.46	9.04	3.54	0.56	1.12	0.22	0.15	100.83	0.13	3.74	0.576				11	602	21	104	2	365	40	65	80			
238	1282.M	aac		35.10	33.10	58.0	16.8	7.92	2.91	6.35	4.68	1.30	1.49	0.39	0.15	99.39	0.66	4.83	1.296				30	496	29	179	7	575	< 20	50	85			
239	1283.M	mrs		35.40	30.90	54.0	17.9	8.02	4.99	8.47	3.65	1.18	1.20	0.40	0.14	100.27	0.23	3.91	1.193				25	585	25	167	8	476	50	70	90			
240	1285.M	bnp		31.60	43.30	49.4	18.2	8.36	8.49	11.05	2.87	0.34	0.96	0.17	0.15	100.48	0.19	3.05	0.36				5	419	19	93	5	173	120	90	65			
241	1286.M	mwg		31.70	43.20	55.0	18.0	8.35	3.94	8.02	4.20	0.79	1.28	0.29	0.15	98.61	0.47																	
242	1287.M	bsl		31.90	42.90	49.3	18.5	8.77	8.39	10.86	2.86	0.19	0.89	0.11	0.16	100.42	0.12	3	0.203				1	375	18	77	2	130	105	90	60			
243	1288.M	bup		31.70	42.90	49.0	17.7	9.22	8.37	11.44	2.74	0.18	1.08	0.14	0.17	100.64	< 0.01	2.96	0.202				1	275	21	112	2	61	80	95	65			
244	1289.M	b12		31.30	43.40	52.6	18.9	7.71	5.70	9.59	3.41	0.66	1.02	0.22	0.14	99.25	0.58																	
245	1291.M	b14		30.30	43.10	52.3	17.7	9.58	4.98	8.93	4.01	0.74	1.32	0.26	0.17	100.62	< 0.01	4.23	0.754				13	466	26	124	6	315	20	110	80			
246	1292.M	mnd		30.60	43.30	53.5	17.0	8.40	6.27	9.18	3.24	0.95	1.15	0.13	0.15	99.76	0.43	3.44	0.959				23	221	31	157	4	335	80	100	70			
247	1294.M	m18		31.40	42.50	53.5	16.2	10.49	4.17	8.37	4.22	0.87	1.65	0.36	0.19	100.64	< 0.01	4.45	0.877				16	435	31	142	6	380	< 20	110	90			
248	1296.M	mrs		34.50	31.90	53.0	17.9	8.82	5.34	8.96	3.74	0.63	1.21	0.25	0.16	99.71	< 0.01						14	590	27	114		285						
249	1297.M	mwg		32.47	42.22	55.2	17.9	8.38	3.93	7.88	4.14	0.81	1.29	0.33	0.15	99.29	0.66																	
250	1306.M	m4		40.00	37.70	53.9	18.4	8.71	4.63	7.98	4.01	0.66	1.27	0.29	0.17	97.77	1.55																	
251	1309.M	aug		37.60	31.20	58.3	17.3	6.67	3.73	6.80	4.02	1.75	1.02	0.32	0.12	100.39	< 0.01	4.29	1.826				49	476	31	199	11	614	48	49	57	42		
252	1314.M	bec		41.10	34.90	51.6	17.3	8.28	7.90	10.24	2.75	0.79	0.92	0.13	0.15	100.57	0.16	2.87	0.820				17	184	26	109	4	175	134	96	40	142		
253	1316.M	mws		33.50	46.90	54.4	20.2	7.18	4.84	7.95	3.92	0.43	0.87	0.15	0.13	98.99	1.39	3.98	0.434				13	716	23	127	3	415	44	60	57	62		
254	1317.M	bss		33.20	46.30	51.7	20.3	7.22	6.00	9.90	3.31	0.50	0.78	0.13	0.12	100.35	0.04	3.46	0.504				6	759	18	94	3	207	78	20	52	60		
255	1318.M	atm		33.50	46.30	62.4	17.7	5.58	1.73	4.69	4.66	1.95	0.77	0.40	0.13	98.74	1.25	4.87	1.945				45	487	30	205	10	667	11	3	81	2		
256	1319.M	mnp		33.60	45.10	55.4	19.0	6.57	5.01	8.31	3.68	0.94	0.75	0.17	0.10	99.94	0.17	3.90	0.972				30	632	21	109	5	315	73	55	52	44		
257	1320.M	atm		32.00	47.40	60.2	17.8	6.57	2.28	5.50	4.53	1.80	0.96	0.25	0.12	99.70	0.54	4.76	1.824				41	485	29	156	8	513	10	6	69	2		
258	1321.M	bss		31.50	46.90	51.4	20.9	7.00	5.61	10.35	3.20	0.51	0.79	0.14	0.11	100.25	< 0.01	3.38	0.528				15	711	23	102	5	222	59	51	48	57		
259	1323.M	m15		32.60	40.80	55.9	16.9	9.01	3.26	6.89	4.31	1.08	1.93	0.48	0.17	99.66	0.55	4.43	1.088				26	494	35	190	7	598	13	2	82	11		
260	1324.M	a7		36.60	40.00	57.2	17.9	7.07	3.87	7.40	4.01	1.22	0.99	0.20	0.12	99.43	0.43	4.13	1.203				24	561	24	138	6	400	28	51	72	45		
261	1326.M	b1h		34.70	39.50	52.1	18.8	7.66	7.16	9.23	3.27	0.54	0.93	0.21	0.13	100.48	< 0.01	3.42	0.561				13	635	20	98	6	284	128	52	44	80		
262	1328.M	mug		34.80	38.60	56.6	16.8	8.18	3.75	7.84	4.04	1.03	1.31	0.28	0.15	100.06	0.35	4.23	1.033				26	572	27	146	7	412	21	87	63	41		
263	1334.M	bet		27.42	36.17	50.9	18.4	8.29	6.50	10.06	3.32	0.71	1.34	0.34	0.14	98.89	0.69	3.52	0.733				10	538	27	144	7	309	83	67	51	112		
264	1335.M	mug		34.80	36.90	54.5	18.0	8.34	4.66	8.36	3.67	0.82	1.19	0.23	0.15	99.18	0.95	3.67	0.812				19	593	25	129	7	348	28	68	59	63		
265	1336.M	m12		34.60	36.80	56.6	16.9	8.67	3.25	6.70	4.59	1.14	1.58	0.39	0.16	99.28	0.05						23	560	27	168		495						
266	1337.M	aac		35.00	33.60	58.0	16.8	7.90	2.99	6.18	4.72	1																						

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	
2	Sample No.	Unit	Map	Latitude	Longitude	Major Elements in wt.%, normalized using FeO*											ORIGINAL		Wet Chemistry (wt. %)					XRF Trace Elements (in ppm)										
				N 41°	W 121°	SiO ₂	Al ₂ O ₃	FeO*	MgO	CaO	Na ₂ O	K ₂ O	TiO ₂	P ₂ O ₅	MnO	TOTAL	LOI	Na ₂ O	K ₂ O	FeO	H ₂ O+	H ₂ O-	CO ₂	Rb	Sr	Y	Zr	Nb	Ba	Ni	Cu	Zn	Cr	
295	1422.M	aib		39.70	30.70	56.4	17.1	7.66	4.08	7.74	3.84	1.52	1.17	0.35	0.13	100.43	0.33							38	496	33	180	12	540	34	62	74	29	
296	1443.M	bl		28.30	24.90	51.1	20.8	7.23	5.28	10.87	2.98	0.45	0.92	0.17	0.12	100.13	0.28							13	675	26	99	6	228	63	57	44	82	
297	1444.M	bl		32.06	24.38	52.8	18.0	8.50	5.50	9.80	3.41	0.62	1.11	0.18	0.15	100.04	0.44							17	459	30	108	6	322	45	95	68	104	
298	1445.M	bl		36.63	20.53	52.8	20.6	6.64	4.71	10.33	3.20	0.63	0.85	0.19	0.11	100.42	0.30							14	655	24	96	5	274	49	48	57	82	
299	1446.M	bl		33.40	29.30	50.0	21.6	8.10	4.18	11.05	3.27	0.42	1.07	0.17	0.13	100.47	0.03							12	555	28	106	6	280	45	57	52	49	
300	1447.M	aib		40.20	31.70	56.1	17.7	7.35	4.42	7.77	3.71	1.45	1.05	0.31	0.12	99.69	0.54							43	532	35	179	13	542	68	59	59	57	
301	1449.M	mni		39.70	29.90	55.0	18.0	7.18	5.33	8.44	3.48	1.32	0.97	0.19	0.13	99.20	0.46							40	404	36	162	7	349	66	42	52	88	
302	1450.M	aib		39.30	29.70	58.3	17.1	6.46	4.38	6.97	3.68	1.82	0.91	0.31	0.11	99.70	0.64							50	468	33	172	11	558	69	43	61	52	
303	1470.M	bl		32.70	29.70	51.0	20.8	7.28	5.06	11.07	3.10	0.41	0.92	0.16	0.12	100.15	0.10							12	627	27	89	6	205	51	55	52	79	
304	1471.M-A	bl		31.90	30.20	51.5	19.2	8.35	5.64	10.33	3.27	0.44	1.04	0.17	0.15	100.63	<0.01							18	543	26	99	5	192	50	74	53	79	
305	1471.M-B	bl		31.90	30.20	52.1	17.9	9.03	5.98	9.70	3.44	0.48	1.13	0.18	0.16	100.71	<0.01							15	487	29	104	5	206	51	77	67	86	
306	1472.M	msp		31.90	30.90	53.2	18.1	8.00	5.48	9.44	3.56	0.77	1.05	0.22	0.14	100.42	0.06							21	639	25	125	9	256	44	82	58	76	
307	1474.M	mfh		40.00	39.30	55.6	17.2	7.97	4.63	8.31	3.89	0.88	1.12	0.23	0.14	100.71	<0.01							22	571	27	133	4	376	34	55	63	68	
308	1478.M	bl		35.30	31.40	52.4	19.8	7.42	5.02	10.15	3.37	0.50	0.98	0.18	0.13	100.35	0.22							23	681	27	106	6	284	48	61	48	72	
309	1482.M	aib		39.90	28.30	57.4	17.3	6.80	4.38	7.16	3.77	1.74	1.01	0.36	0.12	99.74	0.39							53	537	35	190	14	602	65	53	61	40	
310	1497.M	mfh		40.00	39.30	55.5	17.3	7.98	4.64	8.34	3.92	0.88	1.13	0.23	0.14	100.56	<0.01							24	566	29	127	6	352	34	86	64	51	
311	1499.M	dt		45.10	17.90	63.8	16.7	5.49	1.96	4.32	4.29	2.08	0.94	0.21	0.10	96.12	3.48							57	376	27	196	10	608	7	55	76	0	
312	1500.M	dt		45.10	17.90	66.9	16.2	4.18	1.44	3.14	4.30	2.72	0.85	0.24	0.09	93.28	5.55							68	318	31	222	6	646	4	13	78	0	
313	1504.M	dt		45.10	17.90	67.1	16.0	4.09	1.55	3.08	4.33	2.72	0.83	0.23	0.09	93.46	5.47							69	328	31	230	7	726	3	16	71	0	
314	1506.M	bmc		41.80	33.90	52.0	17.0	9.38	6.79	9.08	3.35	0.88	1.14	0.16	0.17	100.83	<0.01							22	299	25	126	8	227	80	63	54	81	
315	1509.M	bvc		40.95	31.85	52.9	16.3	9.03	6.25	8.99	3.35	1.20	1.52	0.30	0.16	100.71	<0.01							24	255	28	177	10	287	67	64	78	109	
316	1514.M-A	dt		32.58	43.37	63.1	16.8	5.60	1.92	4.27	4.78	2.18	0.98	0.23	0.10	98.18	1.30							43	374	27	202	9	587	3	52	90	0	
317	1514.M-B	dt		32.58	43.37	64.4	16.5	5.14	1.72	3.84	4.75	2.43	0.94	0.23	0.10	98.90	0.65							62	359	28	218	8	616	3	37	81	0	
318	1514.M-P	dt		32.58	43.37	65.0	16.6	4.67	1.44	3.57	4.95	2.47	0.91	0.23	0.09	98.47	0.89							52	357	31	238	9	704	1	24	82	0	
319	1515.M	dt		35.34	36.93	65.5	16.1	4.78	1.47	3.58	4.74	2.62	0.89	0.24	0.09	97.95	1.33							59	357	32	221	7	625	3	30	83	0	
320	1516.M	bl		35.20	35.50	50.1	21.4	8.13	4.28	10.92	3.28	0.47	1.07	0.18	0.13	100.71	<0.01							9	531	20	93	2	256	28	62	63	34	
321	1518.M	bgd		47.10	36.90	50.2	17.6	8.92	7.94	9.71	3.19	0.68	1.40	0.28	0.16	100.67	<0.01							14	371	26	160	8	190	125	59	72	178	
322	1521.M	bhp		49.15	31.35	50.9	17.7	8.13	7.92	10.62	2.97	0.54	0.88	0.13	0.15	100.67	<0.01							19	308	27	161	9	208	101	60	53	180	
323	1523.M	b6		41.40	32.35	51.4	17.1	9.86	6.82	9.21	3.27	0.78	1.24	0.18	0.17	100.55	<0.01							18	305	27	136	7	199	65	57	76	59	
324	1524.M	bci		41.00	29.10	52.8	17.4	7.53	8.00	9.57	2.98	0.92	0.66	0.10	0.13	100.54	<0.01							23	239	24	97	8	227	137	58	56	154	
325	1526.M	bng		37.70	26.10	48.4	18.1	10.11	7.72	10.33	3.18	0.23	1.42	0.25	0.18	100.85	<0.01							8	340	30	131	6	137	87	66	75	82	
326	1528.M	awm		35.50	37.25	59.1	17.3	6.49	3.42	6.29	4.22	1.78	0.99	0.29	0.13	99.70	0.77							38	446	30	187	10	514	28	49	87	20	
327	1529.M	mnm		36.70	36.50	56.4	16.8	8.76	3.53	7.30	4.31	1.06	1.41	0.30	0.15	100.04	0.08							20	536	24	147	6	446	10	101	87	12	
328	1530.M	bcb		39.70	33.60	52.2	17.1	9.35	6.76	8.81	3.29	0.91	1.14	0.18	0.17	100.18	<0.01							24	300	29	128	235						
329	1530.M	mnm		39.80	33.65	56.4	16.7	8.74	3.57	7.27	4.32	1.07	1.42	0.30	0.15	100.21	0.02							25	296	24	125	3	209	77	71	75	174	
330	1531.M	mnm		39.80	33.65	56.5	16.8	8.09	3.91	7.88	4.18	1.00	1.21	0.26	0.14	100.16	0.06							20	551	21	132	7	404	12	67	82	29	
331	1532.M	anl		36.30	40.45	59.1	16.8	7.15	3.00	6.41	4.49	1.54	1.08	0.23	0.13	99.90	0.10							44	509	23	151	7	439	7	114	77	2	
332	1534.M	mbp		35.10	38.48	55.0	18.0	7.86	4.36	8.61	3.73	0.85	1.13	0.23	0.14	100.05	0.48							17	569	19	119	5	356	11	67	79	50	
333	1535.M	a4		39.48	29.97	62.0	16.6	5.80	2.39	5.18	4.56	2.16	0.95	0.23	0.11	99.23	0.30							52	430	24	198	7	567	4	53	72	0	
334	1536.M	dac		38.80	32.50	64.0	15.5	4.82	2.94	4.86	3.68	3.17	0.74	0.16	0.09	99.61	0.35							94	180	33	240	11	574	38	24	53	33	
335	1537.M	bac		38.80	32.40	50.5	18.1	8.72	7.62	10.34	3.01	0.41	0.98	0.15	0.18	100.56	<0.01							11	354	22	99	6	192	104	86	73	78	
336	1539.M	bwc		21.10	37.00	52.5	17.4	7.71	7.66	9.45	3.05	1.09	0.92	0.15	0.14	100.37	0.15							30	244	28	131	11	227	129	80	35	139	
337	1552.M	bp		50.10	24.15	48.2	17.7	9.60	8.57	10.57	3.11	0.58	1.30	0.28	0.17	101.34	<0.01							15	373	24	109	13	163	132	87	60	152	
338	1558.M	bdp		30.50	44.80	49.1	17.9	9.45	8.02	10.60	3.10	0.30	1.13	0.20	0.17	101.02	<0.01							11	346	23	105	5	269	121	104	71	103	
339	1559.M	bgd		45.16	37.85	50.6	17.3	8.92	7.78	9.55	3.26	0.76</																						

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG							
2	Sample No.	Unit	Map	Latitude	Longitude	Major Elements in wt.%, normalized using FeO*											ORIGINAL						Wet Chemistry (wt. %)						XRF Trace Elements (in ppm)											
			N 41°	W 121°	SiO ₂	Al ₂ O ₃	FeO*	MgO	CaO	Na ₂ O	K ₂ O	TiO ₂	P ₂ O ₅	MnO	TOTAL	LOI	Na ₂ O	K ₂ O	FeO	H ₂ O+	H ₂ O-	CO ₂	Rb	Sr	Y	Zr	Nb	Ba	Ni	Cu	Zn	Cr								
368	1630.M	bdb	35.08	13.77	47.8	17.9	9.68	8.99	11.25	2.76	0.22	1.07	0.14	0.17	100.59	<0.01	0	304	24	85	7	115	147	114	67	164														
369	1649.M	dec	39.82	36.28	67.3	15.6	3.95	1.31	3.30	4.53	3.14	0.66	0.13	0.08	98.98	0.29	98	291	35	248	11	657	1	28	54	8														
370	1650.M-A	dt	39.83	36.28	64.9	16.1	4.92	1.62	3.96	4.81	2.44	0.91	0.24	0.10	98.70	0.44	70	390	32	219	8	620	4	30	69	7														
371	1650.M-B	dt	39.83	36.28	64.2	16.5	5.05	1.73	4.24	4.73	2.33	0.91	0.24	0.10	100.10	0.22	72	407	32	116	9	620	6	43	71	8														
372	1657.M	btw	45.10	22.80	49.6	18.3	8.60	8.51	9.66	3.14	0.51	1.23	0.30	0.16	99.63	0.10	10	495	23	123	9	255	153	31	73	203														
373	1663.M	dt	23.00	44.50	61.0	19.2	6.08	2.16	4.58	3.72	1.77	1.08	0.27	0.12	93.13	6.21	46	345	33	234	9	593	8	38	85	11														
374	1663.M-A	dt	23.00	44.40	64.4	17.2	4.97	1.51	3.69	4.49	2.43	0.94	0.26	0.10	96.48	3.57	65	349	34	237	10	610	5	28	66	5														
375	1665.M	bl	30.70	29.00	50.8	21.8	6.67	5.10	11.27	2.90	0.39	0.82	0.14	0.12	99.23	0.36	13	550	21	89	2	323	52	76	50	119														
376	1666.M	bl	30.50	28.60	51.9	20.2	7.58	5.14	10.15	3.21	0.52	1.00	0.20	0.14	99.36	0.09	13	647	22	102	4	274	43	73	67	88														
377	1667.M	mnm	39.20	36.00	56.8	16.8	8.24	3.79	7.49	4.07	1.18	1.26	0.28	0.15	98.79	0.48	29	559	29	144	7	421	14	93	79	43														
378	1668.M	bl	34.70	30.50	56.1	17.4	7.81	4.32	7.93	3.86	1.00	1.12	0.25	0.14	99.00	0.35	27	587	29	135	7	383	26	74	84	69														
379	1669.M	bl	34.80	30.30	53.1	19.1	7.74	5.19	9.46	3.43	0.60	1.04	0.21	0.14	99.34	0.19	20	632	26	109	6	299	38	57	66	88														
380	1670.M	bl	34.80	31.40	52.5	18.9	8.35	5.16	9.60	3.45	0.57	1.13	0.21	0.15	99.41	0.15	21	598	26	114	6	268	44	72	71	93														
381	1671.M	byb	30.80	33.10	50.0	18.1	9.18	7.60	10.10	3.14	0.40	1.10	0.19	0.17	99.98	<0.01	7	397	23	99	6	230	88	79	67	84														
382	1672.M	bl	34.60	33.80	50.0	21.7	8.11	4.32	10.86	3.19	0.44	1.08	0.18	0.14	99.37	<0.01	12	549	21	102	3	291	34	72	67	68														
383	1673.M	muc	40.80	36.80	53.0	19.9	7.54	4.74	9.45	3.24	0.86	0.96	0.17	0.14	99.04	0.43	49	483	41	147	9	313	43	43	61	41														
384	1674.M	b4	41.80	28.60	51.6	20.7	7.10	5.17	10.66	3.04	0.59	0.86	0.18	0.13	99.30	0.14	38	753	34	109	7	202	40	60	61	114														
385	1681.M	m3	41.50	24.90	54.0	18.6	7.17	5.40	8.78	3.32	1.28	1.01	0.32	0.13	98.87	0.34	33	623	33	188	10	395	87	70	71	85														
386	1687.M	bts	42.90	43.90	52.0	17.9	10.65	4.88	8.10	3.76	0.82	1.47	0.27	0.18	99.19	0.11	30	503	31	138	6	400	27	39	105	18														
387	1688.M	anl	36.15	40.49	59.3	20.0	7.24	2.85	6.08	4.44	1.55	1.10	0.25	0.12	98.74	0.26	47	544	29	160	6	446	7	105	72	24														
388	1689.M	drs	34.20	33.70	62.8	16.1	6.03	1.83	4.26	5.25	1.94	1.24	0.44	0.14	98.93	0.14	48	421	40	248	11	751	2	34	77	6														
389	1694.M-A	?	33.60	30.20	56.7	17.4	8.44	3.70	7.41	3.74	0.92	1.27	0.25	0.16	95.22	4.68	28	563	27	146	7	396	13	95	83	39														
390	1694.M-B	?	33.60	30.20	65.6	16.6	5.05	1.37	3.37	4.31	2.31	1.02	0.25	0.12	95.30	4.4	68	338	36	273	10	628	3	14	74	7														
391	1694.M-C	?	33.60	30.20	56.9	16.9	8.62	3.57	7.21	4.05	1.00	1.30	0.27	0.15	98.99	0.9	30	540	30	144	7	401	11	98	85	40														
392	1704.M	bl	34.50	32.80	50.3	21.5	8.18	4.13	10.78	3.29	0.47	1.11	0.19	0.14	100.20	<0.01	23	563	29	107	5	254	27	79	66	51														
393	1707.M	reg	36.62	28.08	76.4	12.8	1.21	0.00	0.45	4.25	4.77	0.09	0.00	0.06	99.27	0.38	141	23	66	177	17	83	5	5	70	4														
394	1708.M	bl	34.80	27.90	53.1	20.9	6.55	4.13	9.93	3.42	0.65	0.94	0.23	0.12	100.02	<0.01	13	710	22	112	8	312	34	64	61	70														
395	1709.M	bl	35.40	34.80	51.0	21.3	7.97	4.11	10.35	3.32	0.58	1.07	0.20	0.14	100.38	0.09	16	561	25	111	6	271	32	65	66	55														
396	1716.M	bp	50.70	23.30	48.7	18.0	9.77	7.58	10.35	3.05	0.64	1.37	0.31	0.20	100.58	<0.01	15	384	30	124	13	171	97	108	61	149														
397	1717.M	bp	51.90	23.50	48.7	18.0	9.66	8.28	10.13	2.94	0.61	1.30	0.30	0.17	100.76	<0.01	12	390	26	116	14	173	108	84	65	146														
398	1718.M	bp	52.80	23.50	49.5	18.1	8.94	7.46	9.50	3.51	0.93	1.49	0.43	0.16	99.98	<0.01	17	464	29	162	23	251	108	66	59	152														
399	1720.M	dt	45.90	52.80	64.9	16.4	4.89	1.65	3.90	4.62	2.45	0.90	0.26	0.10	97.16	2.7	64	402	33	218	9	660	12	28	74	6														
400	1721.M	aes	41.30	43.20	58.9	16.2	7.40	3.43	6.49	4.01	1.92	1.23	0.29	0.14	99.24	0.36	41	306	33	194	7	439	21	54	72	39														
401	1722.M	dt	31.80	47.70	62.3	18.0	5.80	2.07	4.00	4.39	2.02	1.01	0.26	0.14	96.62	2.86	33	389	34	219	10	602	6	30	67	13														
402	1723.M	drs	34.60	30.70	63.5	16.0	5.73	1.84	4.35	4.91	2.12	1.10	0.34	0.13	99.90	0.1	61	421	38	230	12	597	5	19	81	4														
403	1724.M	bl	34.00	29.90	50.1	21.7	8.04	4.16	10.82	3.28	0.45	1.07	0.20	0.14	100.70	<0.01	10	557	25	103	4	233	25	54	71	48														
404	1725.M	bl	33.80	24.70	54.6	18.6	7.75	4.33	8.79	3.53	0.91	1.09	0.25	0.14	99.90	0.39	24	627	26	124	6	317	28	81	67	63														
405	1726.M	bl	32.70	25.30	51.0	20.9	7.50	5.17	10.67	3.09	0.38	0.96	0.19	0.14	100.14	<0.01	19	656	30	101	6	203	46	74	67	78														
406	1727.M	dt	36.70	28.20	62.8	16.8	5.69	2.04	4.66	4.59	2.12	0.97	0.23	0.11	98.87	1.01	62	427	32	205	8	551	5	49	75	9														
407	1727.M-A	dt	36.70	28.20	63.8	16.3	5.39	1.78	4.37	4.83	2.22	0.94	0.24	0.11	99.69	0.17	62	432	35	212	11	565	4	49	61	9														
408	1728.M	dt	35.80	28.00	64.2	16.7	5.09	1.61	3.94	4.74	2.38	0.92	0.28	0.11	98.67	0.95	52	375	32	215	7	596	2	42	67	5														
409	1729.M	bl	35.20	25.50	53.3	20.2	6.89	4.65	9.69	3.46	0.60	0.91	0.22	0.13	100.29	<0.01	20	705	25	108	4	302	37	58	59	74														
410	1730.M	rmh	35.95	32.87	71.9	14.6	2.22	0.55	1.65	4.60	3.91	0.39	0.09	0.06	99.28	0.27	126	152	35	284	9	885	1	7	42	5														
411	1731.M	bdb	31.20	11.80	48.3	17.8	9.62	8.33	10.49	3.13	0.50	1.42	0.28	0.17	101.13	<0.01	17	403	32	135	12	135	120	101	59	151														
412	1732.M	bl	27.27	25.82	50.4	21.7	7.21	5.25	10.93	3.04	0.26	0.90	0.19	0.13	99.57	0.12	9	670	21	90	4	226	59	63	60	87														
413	1733.M	b17	25.70	27.70	51.7	19.4	7.70	6.23	10.12	3.07	0.50	0.94	0.19	0.14	99.70	0.39	12	677	22	117	2	193	63	77	70	122														
414	1734.M	bl	28.00	26.90	50.4	21.5	7.25	5.40	10.91	2.96	0.33	0.91	0.18	0.13	99.79	0.04	13	663	23	92	4	218	64	62	56	106														
415	1741.M	dt	47.22	34.43	64.1	16.4	5.27	1.81	4.22	4.58	2.37	0.94	0.26	0.10	97.76	1.91	66	400	32	212	9	584	4	36	67	12														
416	1741.M-A	dt	47.20	34.50	65.5	15.9	4.73	1.52	3.76	4.84	2.51	0.88	0.25	0.10	99.18	1.01	66	369	34	217	8	603	5	35	68	4														
417	1745.M	mj	47.40	27.00	53.8	17.5	7.69	7.03	8.75	2.97	1.01	0.91	0.14	0.15	99.10	1.19	34	230	31	144	9	249	131	89	63															

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	
2	Sample No.	Unit	Map	Latitude	Longitude	Major Elements in wt.%, normalized using FeO*										ORIGINAL						Wet Chemistry (wt. %)						XRF Trace Elements (in ppm)						
				N 41°	W 121°	SiO ₂	Al ₂ O ₃	FeO*	MgO	CaO	Na ₂ O	K ₂ O	TiO ₂	P ₂ O ₅	MnO	TOTAL	LOI	Na ₂ O	K ₂ O	FeO	H ₂ O+	H ₂ O-	CO ₂	Rb	Sr	Y	Zr	Nb	Ba	Ni	Cu	Zn	Cr	
441	1795.M	byb		20.69	35.03	51.3	18.2	7.79	7.42	10.42	3.00	0.60	0.94	0.19	0.15	99.73	<0.01							14	365	21	102		235	74	73	59	190	
442	1797.M	bug		22.17	35.41	49.3	18.0	8.36	9.41	10.95	2.48	0.32	0.92	0.14	0.15	99.51	0.17							12	215	23	98		126	160	98	55	184	
443	1798.M	bdb		30.52	12.83	48.0	17.9	9.74	8.79	11.13	2.72	0.22	1.12	0.16	0.17	99.94	<0.01								315	25	87		108	120	102	54	168	
444	1799.M	bdb		30.64	18.03	48.2	18.2	9.55	8.49	11.01	2.81	0.29	1.13	0.17	0.17	100.03	<0.01								375	24	90		96	104	99	60	140	
445	1830.M	m11		34.86	37.27	54.2	17.6	8.80	4.80	8.63	3.58	0.79	1.23	0.22	0.16	99.20	0.27							17	500	23	128		320	21	69	96	68	
446	1831.M	mph		28.23	37.61	53.4	18.4	7.36	5.96	9.65	3.17	0.83	0.92	0.17	0.13	99.54	0.35							18	590	20	118		275	55	84	61	95	
447	1846.M	b7		41.36	40.83	50.4	17.7	10.49	6.24	9.49	3.25	0.49	1.47	0.28	0.18	99.82	<0.01								460	26	108							
448	1847.M	m6		39.79	38.42	54.6	17.4	9.50	4.22	8.09	3.51	0.84	1.40	0.27	0.17	99.54	0.14							20	445	30	132							
449	1848.M	bwd		30.97	44.63	53.0	17.3	9.45	5.12	8.90	3.69	0.77	1.34	0.25	0.17	100.04	<0.01							17	570	26	136							
450	1853.M	a5		38.52	35.15	57.4	16.8	8.01	3.43	6.95	4.24	1.45	1.22	0.29	0.15	99.60	0.09							35	510	26	166							
451	1854.M	m9		38.42	32.92	55.1	17.1	8.86	4.07	8.13	4.08	0.97	1.26	0.26	0.16	99.29	0.41							17	570	26	136							
452	1855.M	m10		38.03	31.99	54.7	17.2	9.54	3.83	7.89	4.03	0.97	1.38	0.25	0.16	99.16	0.64							23	560	25	142							
453	1856.M	aug		37.69	30.62	53.7	18.1	7.74	5.38	9.35	3.54	0.78	1.02	0.23	0.14	99.15	0.48							14	630	20	126							
454	1857.M	bng		40.56	27.07	50.5	17.6	9.61	7.02	9.43	3.39	0.61	1.40	0.28	0.18	100.36	<0.01							15	315	30	150							
455	1858.M	bng		40.49	27.10	50.8	17.6	9.53	6.80	9.26	3.44	0.70	1.41	0.29	0.17	100.18	<0.01							18	305	34	158							
456	1859.M	bt		37.38	21.55	48.3	18.3	9.00	9.66	11.13	2.48	0.11	0.79	0.08	0.17	99.82	<0.01								235	21	59		78	178	106	60	200	
457	1876.M	bdb		30.77	12.07	48.2	17.9	9.66	8.61	11.14	2.77	0.22	1.11	0.17	0.17	99.80	0.04								315	24	88		118	126	102	74	174	
458	1877.M	bdb		31.14	11.82	48.3	17.8	9.52	8.32	10.57	3.05	0.48	1.43	0.29	0.17	100.35	<0.01							10	400	27	128		166	118	94	73	152	
459	1878.M	bdb		31.85	11.54	48.1	17.6	9.86	8.44	11.26	2.98	0.24	1.18	0.16	0.18	99.70	0.39								310	26	92		108	95	83	60	182	
460	1880.M	mwd		47.50	34.53	52.6	17.7	8.89	6.73	9.03	3.22	1.00	1.35	0.30	0.16	99.79	<0.01							28	285	31	170		340	84	70	77	136	
461	1882.M	mvg		31.82	41.85	57.0	16.5	8.46	3.11	6.56	4.55	1.15	1.90	0.55	0.17	98.42	1							23	520	32	190							
462	1884.M	m2		42.97	30.85	55.4	17.3	8.54	4.13	8.13	3.83	1.03	1.21	0.28	0.15	99.29	0.72							23	565	20	119		6	314	<10	(9)	97	94
463	1888.M	bts		44.45	43.72	52.0	17.8	10.58	4.91	8.07	3.83	0.83	1.46	0.29	0.18	99.81	0.13							17	478	24	128		5	416	32	53	102	
464	1889.M	bts		44.15	45.43	52.2	17.8	10.55	4.80	8.01	3.90	0.84	1.48	0.29	0.18	100.09	0.04							19	471	22	130		9	393	34	59	102	
465	1890.M	b2		43.33	45.63	51.1	17.8	9.24	6.53	9.60	3.17	0.58	1.35	0.45	0.16	99.38	0.21							13	474	27	121		9	381	79	33	90	
466	1892.M	b3		42.60	44.93	51.5	18.1	9.81	5.85	8.79	3.38	0.72	1.36	0.37	0.17	100.16	<0.01							15	549	24	107		5	342	81	93	90	
467	1904.M	mlc		25.80	41.53	57.0	16.4	7.47	5.24	7.27	3.45	1.70	1.07	0.25	0.14	99.60	0.37							37	244	32	149		10	383	58	64	66	
468	1905.M	mlc		25.61	41.47	55.7	16.5	7.70	5.66	8.12	3.49	1.37	1.12	0.21	0.15	100.04	<0.01							35	226	29	175		6	341	67	92	63	
469	1906.M	mlc		25.62	41.15	56.8	17.1	7.84	4.34	7.31	3.86	1.34	1.07	0.22	0.14	99.26	0.45							36	343	28	169		7	389	24	68	76	
470	1907.M	mlc		24.55	41.23	55.4	17.3	7.88	5.48	7.69	3.47	1.30	1.12	0.25	0.15	99.69	0.21							13	266	32	161		7	385	71	54	69	
471	1908.M	bl		28.48	28.15	51.4	21.0	7.04	5.25	10.63	2.99	0.48	0.89	0.21	0.13	99.56	0.14							13	645	15	79		3	207	49	5	17	
472	1909.M	bl		27.33	27.58	51.3	21.1	7.08	5.28	10.66	2.89	0.42	0.90	0.21	0.13	99.24	0.26							11	649	14	73		4	238	55	65	67	
473	1915.M	byb		22.42	27.62	51.4	17.9	9.55	5.81	9.51	3.38	0.64	1.33	0.29	0.18	100.03	<0.01								42	474	24	189		7	571	8	43	80
474	1918.M	anl		38.18	44.38	60.1	16.9	6.96	2.62	5.66	4.14	2.05	1.15	0.31	0.13	99.23	0.96								10	358	20	95		11	198	76	65	61
475	1959.M	byb		25.47	30.38	51.4	18.5	7.58	7.43	10.31	2.96	0.58	0.88	0.21	0.14	99.81	0.05							8	638	14	68		5	217	55	87	77	
476	1961.M	bl		27.65	26.50	51.2	20.9	7.27	5.32	10.60	3.04	0.40	0.93	0.21	0.13	99.84	<0.01							11	648	16	73		7	234	42	58	64	
477	1962.M	bl		27.60	26.42	51.2	21.2	7.11	5.23	10.59	3.04	0.41	0.91	0.21	0.13	99.02	0.29							29	555	21	136		9	447	9	95	76	
478	2006.M	a6		37.68	38.85	57.6	17.7	6.99	3.58	7.13	4.34	1.26	1.03	0.22	0.12	99.13	0.37							15	219	29	122		4	199	97	114	64	144
479	2045.M	bel		42.75	27.85	51.4	17.4	8.69	7.33	10.15	3.01	0.60	1.11	0.18	0.16	100.42	0.26																	
480	2047.M	as		31.56	35.72	57.5	17.3	7.67	3.19	6.89	4.40	1.24	1.36	0.35	0.15	99.25	0.22																	
481	2055.M	anl		36.19	43.00	58.4	16.7	7.39	3.37	6.11	4.56	1.70	1.25	0.37	0.15	98.76	0.71							42	332	32	207		12	443	18	42	84	
482	2056.M	mtl		33.04	46.86	57.0	18.1	7.91	3.09	6.43	4.54	1.25	1.18	0.37	0.15	99.21	0.31							27	561	24	143		10	464	8	53	95	
483	2057.M	atm		32.99	46.68	59.1	18.8	6.64	2.36	5.55	4.44	1.71	0.99	0.33	0.14	99.35	1.09							34	494	25	155		6	523	1	14	85	
484	2058.M	mrr		24.33	35.63	54.4	17.5	7.50	6.33	8.46	3.40	1.30	0.81	0.21	0.14	98.45	0.01							27	232	26	157		9	351	84	81	61	
485	2061.M	mnm		39.85	35.83	57.6	16.8	7.88	3.37	6.76	4.31	1.54	1.22	0.35	0.15	99.46	0.05							33	493	27	166		7	408	18	56	87	
486	2062.M	mnm		39.90	35.70	57.4	16.8	7.95	3.42	6.88	4.24	1.57	1.22	0.35	0.15	99.07	0.26																	

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG		
2	Sample No.	Unit	Map	Latitude	Longitude	Major Elements in wt.%, normalized using FeO*											ORIGINAL						Wet Chemistry (wt. %)						XRF Trace Elements (in ppm)						
				N 41°	W 121°	SiO ₂	Al ₂ O ₃	FeO*	MgO	CaO	Na ₂ O	K ₂ O	TiO ₂	P ₂ O ₅	MnO	TOTAL	LOI	Na ₂ O	K ₂ O	FeO	H ₂ O+	H ₂ O-	CO ₂	Rb	Sr	Y	Zr	Nb	Ba	Ni	Cu	Zn	Cr		
514	53 IM	ob		47.30	35.40	48.6	17.9	9.18	8.98	11.31	2.69	0.17	0.93	0.15	0.17	100.07	<0.01																		
515	57 IM	otb		47.10	37.00	68.9	16.9	3.46	1.02	2.30	3.58	2.99	0.55	0.14	0.09	93.05	5.81									68	285	27	193	7	652			36	
516	135 IM	odh		26.90	44.70	63.9	16.8	4.75	2.52	5.32	3.76	1.96	0.67	0.20	0.08	99.72	0.44			2.48	0.44	0.18	0.07		46	611	16	126	3	498	23		61		
517	178 IM	ob		45.60	40.90	52.3	18.8	8.71	5.47	8.76	3.55	0.72	1.24	0.33	0.14	99.30	0.31																		
518	195 IM	orr		32.10	43.50	73.6	14.8	1.58	0.46	1.86	3.88	3.58	0.21	0.06	0.03	99.12	0.29								125	250	20	155	9	860	2	11	37	4	
519	241 IM	otg		47.20	34.00	66.9	16.3	3.81	1.29	2.96	4.74	2.90	0.73	0.21	0.11	97.10	2.94																		
520	243 IM	otb		47.40	40.40	69.3	15.5	2.89	1.11	2.66	3.84	3.97	0.45	0.20	0.06	95.92	3.55			1.89	2.83	0.27	0.24		105	250	42	263	14	797	14	22	39	5	
521	315 IM	otb		47.40	40.40	70.5	15.2	2.59	0.81	2.20	4.17	3.88	0.45	0.12	0.05	95.57	3.98								97	202	33	258	12	826	11	16	39	2	
522	345 IM	opt		45.27	38.57	56.4	16.9	8.90	5.26	7.18	2.52	0.95	1.32	0.42	0.16	93.15	6.58																		
523	349 IM	oap		40.60	44.60	57.4	18.8	6.41	4.41	7.39	3.63	0.94	0.81	0.18	0.11	99.88	0.30								18	786	12	110	5	320					
524	381 IM	ord		38.20	43.10	72.3	14.8	2.25	0.56	1.67	4.17	3.77	0.30	0.09	0.06	97.69	1.76								90	175	27	191	11	814					
525	448 IM	ob		47.10	37.00	50.4	16.8	9.70	8.39	9.45	2.83	0.73	1.26	0.22	0.17	100.38									17	303	26	120		220					
526	451 IM	obw		37.00	45.80	51.7	18.2	9.20	6.17	8.66	3.34	0.86	1.31	0.35	0.16	99.79	0.05								22	491	33	156	9	386	93	56	59	94	
527	452 IM	oag		35.70	46.30	59.6	18.2	5.49	4.10	7.08	3.53	1.16	0.66	0.16	0.09	99.66	0.71								33	680	25	124	7	404	52	25	44	60	
528	460 IM	oap		34.80	43.70	57.6	18.7	6.54	3.91	7.33	3.66	1.15	0.77	0.20	0.11	99.64	0.35								31	614	18	116		380					
529	501 IM	ods		33.30	45.80	67.1	17.0	3.91	0.88	2.94	4.83	2.66	0.44	0.18	0.10	98.33	0.93								66	345	28	229	7	809					
530	767 IM	ob		47.10	36.90	47.6	18.1	8.61	10.47	11.88	2.32	0.06	0.71	0.08	0.15	100.31		2.36	0.076	7.31	0.25	0.14	0.18		2	210	19	59	2	62	205	100	50		
531	769 IM	omg		47.30	34.00	56.9	16.7	8.67	3.34	6.95	4.09	1.59	1.29	0.30	0.14	98.99	0.64	4.22	1.594	5.57	0.72	0.21	0.06		29	494	25	142	4	490					
532	777 IM	otg		47.70	44.30	66.9	16.2	4.41	1.29	3.19	4.06	2.78	0.78	0.23	0.11	94.14	5.66			2.20	4.14	1.64	0.25		48	296	27	219	4	648					
533	831 IM	ord		38.60	42.80	71.1	15.3	2.45	0.60	1.96	4.91	3.04	0.42	0.12	0.08	98.97	0.25	5.08	3.060	0.16	0.13	0.02	0.03		78	263	28	190	7	760			49		
534	851 IM	obg		47.20	34.00	47.7	18.4	8.69	9.93	11.72	2.43	0.08	0.77	0.10	0.16	100.79	0.01	2.46	0.104	7.09	0.30	0.07	0.04		0	223	20	59	1	52	185	115	50		
535	954 IM	obg		47.90	33.80	47.9	17.9	8.81	9.88	11.91	2.39	0.08	0.80	0.11	0.18	100.91				7.48	0.16	0.04	0.19		0	223	19	53	1	113	185	65	50		
536	962 IM	omw		49.20	33.50	53.7	18.1	8.01	4.95	8.65	3.71	1.19	1.14	0.46	0.16	100.01	0.23			3.66	0.11	0.20	0.14		18	632	21	156	8	512					
537	968 IM	obp		47.00	34.00	52.2	18.0	9.06	5.06	9.41	3.59	0.86	1.35	0.31	0.17	100.32	0.22			6.74	0.27	0.10	0.12		10	467	27	136	6	317					
538	1079 IM	otg		47.30	33.90	69.3	15.6	3.33	0.36	1.96	5.41	3.05	0.69	0.20	0.05	99.02	1.34	5.62	3.040						51	242	33	278	9	830			30	65	
539	1223 IM	om		44.80	39.10	53.0	17.6	8.72	4.95	8.68	3.59	1.33	1.46	0.53	0.16	100.57	0.01	3.77	1.326						20	483	31	181	10	495	40	60	85		
540	1227 IM	obu		30.70	23.40	52.8	18.4	7.78	5.91	9.78	3.16	0.86	0.89	0.20	0.14	100.60	0.38	3.3	0.875						16	437	26	132	7	332	65	85	70		
541	1229 IM	omb		32.10	26.00	55.1	18.4	7.26	4.77	8.37	3.74	1.06	0.95	0.24	0.13	99.74	0.24	3.85	1.062						17	541	21	147	6	425	50	75	70		
542	1280 IM	obd		26.20	46.70	49.1	18.4	9.06	8.86	10.71	2.58	0.15	0.90	0.09	0.16	99.97	0.35	2.78	0.169						3	381	23	74	1	97	110	80	60		
543	1330 IM	oml		27.50	44.90	55.1	19.1	7.82	4.63	7.44	3.49	0.98	1.08	0.25	0.14	99.01	1.19	3.53	0.965						20	530	28	138	7	492	45	45	62	44	
544	1454 IM	obc		47.80	21.10	52.0	18.5	7.64	6.49	10.50	3.08	0.63	0.89	0.17	0.13	99.89	0.61								19	606	26	104	4	189	72	70	57	93	
545	1601 IM	ob		46.76	39.05	48.1	18.0	8.48	10.45	11.55	2.40	0.11	0.67	0.07	0.15	100.47	0.10								0	213	18	51	2	72	214	102	50	120	
546	1605 IM	ob		30.43	17.60	47.7	17.3	9.96	9.76	11.17	2.56	0.14	1.09	0.13	0.18	100.47	0.05								0	247	22	69	2	102	175	120	60	280	
547	1613 IM	ob		47.16	36.82	50.0	16.8	9.68	8.76	9.66	2.81	0.67	1.24	0.23	0.17	100.51	<0.01								11	315	28	108	1	322	147	67	84	217	
548	1614 IM	ob		47.27	35.44	48.6	17.9	8.94	9.20	11.42	2.66	0.19	0.86	0.13	0.16	101.69	<0.01								0	248	21	68	3	94	168	108	66	198	
549	1845 IM	otb		45.46	43.97	70.9	15.3	2.55	0.67	2.11	4.69	3.14	0.47	0.16	0.08	96.51	3.15								74	285	26	198	74	740					
550	1860 IM	ob		46.69	21.59	50.2	18.2	8.37	8.09	10.50	2.99	0.41	0.97	0.19	0.15	100.01	0.09									380	23	87		154	126	80	64	144	
551	1887 IM	otb		45.46	44.00	70.4	16.4	2.71	0.50	1.96	4.23	3.02	0.49	0.20	0.09	95.69	3.96								77	277	25	207	9	828	ND	17	68		
552	1900 IM	ob		46.17	40.80	53.1	17.8	8.27	5.86	8.75	3.35	1.06	1.20	0.46	0.15	99.64	0.20								17	490	24	137	10	486	72	52	80		
553	1901 IM	ob		45.93	40.50	52.3	18.7	8.67	5.63	8.76	3.44	0.70	1.25	0.34	0.15	99.74	0.10								9	575	23	108	10	295	55	50	90		
554	1902 IM	ob		45.88	40.12	52.8	17.5	8.64	6.32	8.66	3.30	0.97	1.25	0.44	0.16	99.71	0.13								17	471	24	140	11	385	88	63	82		
555	1917 IM	otb		46.33	46.22	71.2	15.3	2.63	0.69	2.12	4.02	3.33	0.46	0.17	0.09	95.67	4.15								74	283	27	195	8	737	9	14	59		
556	1934 IM	otg		47.30	33.92	68.7	16.2	3.45	0.18	1.79	5.35	3.18	0.74	0.29	0.07	98.45	1.28								52	219	32	293	12	852	3	38	69		
557	1935 IM	otg		47.32	33.90	69.1	16.2	3.38	0.19	1.66	5.31	3.06	0.71	0.26	0.06	98.31	1.40								53	211	33	297	11	851	7	35	68</		

1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG		
2	Sample No.	Unit	Map	Latitude	Longitude	Major Elements in wt.%, normalized using FeO*										ORIGINAL TOTAL	LOI	FP	FP	Wet Chemistry (wt. %)					XRF Trace Elements (in ppm)										
				N 41°	W 121°	SiO ₂	Al ₂ O ₃	FeO*	MgO	CaO	Na ₂ O	K ₂ O	TiO ₂	P ₂ O ₅	MnO			Na ₂ O	K ₂ O	FeO	H ₂ O+	H ₂ O-	CO ₂	Rb	Sr	Y	Zr	Nb	Ba	Ni	Cu	Zn	Cr		
587	828 M-C			45.10	17.90	54.0	17.2	9.49	4.18	8.31	3.81	0.87	1.53	0.36	0.18	99.69	0.36							16	425	30	148	7	342	22			104		
588	1021 M			11.55	29.95	49.3	17.2	9.40	9.10	11.13	2.55	0.09	0.97	0.09	0.18	102.57	0.40							0	259	20	67	1	88	140	95	66			
589	1022 M			9.40	31.10	47.8	17.5	9.80	9.81	11.49	2.47	0.09	0.83	0.07	0.18	101.16						8.36	0.13	0.06	0.03	0	211	21	58	1	79	180	115	64	
590	1023 M			7.50	31.50	47.7	17.5	9.85	10.24	11.24	2.40	0.08	0.81	0.07	0.18	100.73						8.71	0.35	0.24	0.08	0	208	22	57	2	61	190	100	60	
591	1024 M			22.10	40.70	48.7	17.7	10.01	8.75	10.41	2.73	0.24	1.10	0.15	0.17	100.00	0.59					7.93	0.49	0.24		2	366	23	90	1	128	118		59	
592	1085 M			54.50	38.60	47.8	17.7	8.86	10.26	11.86	2.40	0.09	0.74	0.08	0.16	101.36	0.28	2.41	0.042					1	208	20	56	3	46	180	80	50			
593	1188 M			20.30	39.30	56.8	17.5	6.88	4.80	7.69	3.52	1.50	0.89	0.30	0.12	100.22	0.50	3.61	1.487					29	512	24	161	6	527	44	55	72			
594	1333 M			20.40	27.10	48.4	17.4	10.02	8.45	11.43	2.69	0.22	1.04	0.10	0.18	100.85	0.14	2.81	0.234					1	252	24	64	2	145	107	101	44	151		
595	1468 M			12.70	33.50	53.4	17.3	7.39	7.37	9.54	2.83	1.07	0.88	0.11	0.13	100.14	0.38							30	196	29	127	2	203	119	71	44	113		
596	1501 M			45.10	17.90	54.0	17.2	9.38	4.11	8.22	4.07	0.92	1.53	0.38	0.17	99.88	0.26							23	411	27	143	8	351	18	79	102	30		
597	1502 M			45.10	17.90	67.2	15.9	4.30	0.92	2.35	5.58	2.60	0.74	0.20	0.15	94.74	4.89							48	197	44	334	12	686	3	2	103	0		
598	1503 M			45.10	17.90	53.8	16.2	10.55	4.03	8.27	3.84	0.85	1.82	0.43	0.19	100.14	0.05							18	407	29	139	6	355	14	95	107	20		
599	1548 M			48.40	56.30	48.4	17.4	9.38	9.20	11.63	2.62	0.12	0.91	0.09	0.17	100.78	<0.01							7	233	24	62	4	73	149	56	55	245		
600	1549 M			46.10	49.90	48.1	17.8	9.36	9.23	11.60	2.65	0.09	0.93	0.09	0.17	101.06	<0.01							0	238	24	64	3	42	131	64	64	205		
601	1550 M			34.96	52.35	51.1	18.8	8.03	7.35	10.16	3.05	0.40	0.83	0.11	0.14	100.29	<0.01							2	531	21	82	2	157	85	73	67	117		
602	1551 M			38.40	51.90	48.8	17.8	9.02	9.08	11.22	2.72	0.19	0.89	0.10	0.16	100.81	<0.01							5	315	24	72	10	81	143	67	59	210		
603	1602 M			51.42	44.46	47.9	18.2	8.58	10.13	11.84	2.31	0.07	0.72	0.10	0.15	100.64	0.15							0	191	19	52	2	67	200	91	47	190		
604	1623 M			35.63	57.40	49.4	18.2	8.84	8.44	10.92	2.81	0.22	0.89	0.10	0.15	100.78	<0.01							0	346	16	68	1	111	110	88	69	190		
605	1624 M			34.51	54.95	49.6	18.8	8.61	8.20	10.57	2.84	0.20	0.87	0.10	0.15	100.27	0.10							4	415	17	75	2	145	108	75	71	162		
606	1632 M			44.50	56.00	48.1	18.0	9.16	9.63	11.18	2.56	0.11	0.92	0.10	0.17	100.29	<0.01							4	255	32	64	1	80	171	75	71	219		
607	1633 M			42.40	58.40	48.4	18.8	8.90	9.27	10.89	2.53	0.16	0.86	0.09	0.16	100.17	<0.01							13	351	31	80	6	75	142	60	62	188		
608	1634 M			39.70	55.80	48.3	18.8	9.02	9.13	10.89	2.61	0.13	0.89	0.10	0.16	100.15	<0.01							9	354	29	74	5	121	136	65	65	185		
609	1635 M			26.70	51.20	48.7	18.4	9.36	8.45	10.60	2.86	0.19	1.09	0.17	0.17	100.11	0.12							13	346	29	102	4	168	109	108	62	134		
610	1664 M			22.40	43.20	48.7	18.1	9.47	8.74	10.63	2.78	0.25	1.01	0.15	0.17	99.86	0.04							3	305	30	81	5	118	152	98	59	144		
611	1702 M			10.30	29.80	48.3	18.1	9.66	8.71	11.34	2.58	0.11	1.00	0.09	0.18	100.73	0.04							13	304	32	78	5	87	128	85	68	230		
612	1703 M			11.30	30.10	48.2	18.0	9.58	9.00	11.25	2.57	0.12	0.98	0.10	0.18	100.60	0.02							18	276	35	79	7	77	126	106	66	207		
613	1849 M			26.55	48.67	49.2	18.8	8.97	8.70	10.36	2.63	0.16	0.91	0.12	0.16	99.40	0.68									375	23	72		110	124	77	68	188	
614	1850 M			26.32	52.18	52.0	17.8	8.49	6.94	9.58	3.17	0.70	0.98	0.18	0.16	99.78	0.17							20	320	28	116		290	70	96	70	134		
615	1851 M			25.73	53.23	52.8	17.9	8.30	6.71	9.02	3.14	0.80	0.97	0.19	0.16	98.78	1.04							24	300	27	130		320	72	94	66	142		
616	1852 M			25.48	52.18	54.0	17.2	7.93	6.34	8.84	3.28	1.08	0.94	0.18	0.15	99.67	0.24							30	295	26	128		335	62	92	67	144		
617	1891 M			42.68	45.48	54.5	18.5	7.57	5.16	8.25	3.53	1.10	0.94	0.28	0.13	99.83	0.20							18	672	15	92	6	452	77	88	83			
618	1912 M			21.25	31.92	57.8	17.4	7.02	4.64	7.18	3.37	1.29	0.81	0.28	0.12	98.26	1.11							31	598	45	108	5	432	57	69	79			

1	A	B	C	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG		
2	Sample No.	Unit	Map	INAA (in ppm)		Co	Zn	Rb	Sr	Zr	Sb	Cs	Ba	La	Ce	Nd	Sm	Eu	Gd	Tb	Dy	Tm	Yb	Lu	Hf	Ta	Th	U	Mn		
76	478.M	rmwr																													
77	479.M	atm		15.0	1	12.7		41	462	131		1.75	453	13.3	27.8	15.0	3.75	1.190	3.70	0.643	3.70	0.35	2.05	0.328	3.06	0.322	3.17	1.47	950		
78	480.M	atm																													
79	484.M	atm																													
80	486.M	ifr		12.9	32	16.6		31	725	80		0.78	383	12.0	21.7	13.0	2.52	0.822		0.397	2.22	0.16	1.14	0.148	2.34	0.230	3.49	1.06	677		
81	487.M	mrl		25.1	430	35.0	81	19	457	< 160	<0.4	0.54	309	7.60	16.8	9.7	2.74	0.841		0.48				1.67	0.24	2.08	0.20	1.73	0.61		
82	497.M	aet																													
83	504.M	atm																													
84	505.M	atm		13.0		12.9		35	469	134	0.07	1.65	483	16.2	33.2	18.2	4.01	1.260	4.51	0.657	352.00			2.25	0.365	3.60	0.403	3.10	1.10	949	
85	512.M	ael																													
86	517.M	dls		8.5	1	4.5		89	225	219	0.50	5.31	703	20.2	42.0	20.9	4.27	0.963		0.696	4.18			2.93	0.453	6.20	0.730	9.07	3.32	539	
87	534.M	awh		14.1	48	16.5		53	421		0.20	3.34	596	18.1	36.4	19.2	3.84	1.120		3.74	0.578	3.40			1.82	0.291	3.81	0.540	5.76	2.13	786
88	554.M	rmh		5.7	2	3.1		111	124	237	0.96	6.80	918	20.8	41.9	19.7	3.71	0.783	4.20	0.648	3.80			3.21	0.517	6.62	0.772	11.30	4.16	422	
89	564.M	drs		18.7	6	10.2	84	41		242	1.10	1.80	734	22.0	45.0	28.0	6.30	1.810	7.70	0.720		0.53	3.60	0.530	5.40	0.740	4.30	1.50			
90	565.M	drs																													
91	579.M	b9																													
92	581.M	mtc		22.4	62	27.0		33	518	161		0.98	473	17.5	35.2	18.7	4.05	1.290	4.07	0.589	4.05	0.37	2.22	0.348	3.49	0.538	3.22	0.91	965		
93	583.M	mhi																													
94	592.M	mni																													
95	593.M	bco		33.2	156	36.7		10	541	73		0.25	127	6.9	14.3	9.4	2.52	1.000	2.86	0.482	3.20	0.29	1.82	0.266	1.89	0.097	0.92	0.27	1080		
96	595.M	bac		42.3	91	36.9		-	333	160	0.14	0.75	271	8.0	19.8	13.2	3.85	1.490	4.59	0.801	5.09	0.52	3.19	0.487	3.05	0.275	1.41	0.84	1420		
97	605.M	mc																													
98	611.M	ama																													
99	620.M	asm		26.3	4	21.9		58	439	243	0.49	3.29	657	19.2	38.6	22.6	5.16	1.940	5.61	1.160	6.31	0.58	3.60	0.550	5.24	0.513	5.50	1.57	1300		
100	625.M	bng		33.9	60	39.3		9	294	160		0.29	122	7.0	18.9	13.9	3.69	1.380	4.53	0.721	4.75	0.47	2.95	0.484	2.85	0.309	0.56	0.69	1370		
101	631.M	bt		39.2	197	46.5		-	180	76			77	1.9	4.7	4.4	1.70	0.762	2.58	0.481	3.28	0.33	2.19	0.354	1.18	0.058	0.22	0.24	1270		
102	638.M	iaib		19.5	72	23.7		50	540	167	0.33	2.38	613	20.2	45.7	21.8	4.66	1.260	4.27	0.647	4.10	0.40	2.34	0.350	4.27	0.673	5.48	2.07	906		
103	640.M	bp		33.6	153	46.3		9	393	110		1.65	9.4	20.3	11.6	3.22	1.190	3.50	0.622	3.89	0.38	2.53	0.374	2.29	0.690	0.67	0.28	1300			
104	646.M	bmc		30.7	129	35.0		42	220	160	0.30	2.73	280	8.6	19.7	11.7	2.83	0.923	3.40	0.580	4.00	0.42	2.87	0.440	3.08	0.351	4.69	1.65	1060		
105	649.M	btm		37.9	145	42.2		31	230	110	0.32	1.73	200	7.7	18.5	11.4	3.24	1.120	4.16	0.751	5.11	0.52	3.44	0.489	2.99	0.31	3.50	1.25	1260		
106	668.M	aug																													
107	678.M	anh		27.3	25	19.1		26	565	170		1.15	496	15.7	35.2	22.1	4.09	1.620	4.65	0.830	5.34	0.43	2.70	0.400	3.90	0.506	3.05	0.80	1090		
108	683.M	mfw																													
109	684.M	rwk		5.4	1	2.2		141	88.8	246	1.47	9.19	860	25.7	54.5	21.8	4.53	0.717	5.53	0.788	5.25	0.56	3.68	0.548	7.60	1.030	15.30	5.47	309		
110	685.M	rgf		4.1	1	1.2		144	177	1.47	8.20	788	26.3	55.2	20.8	4.38	0.477	4.66	0.716	4.85	0.53	3.41	0.500	5.87	1.090	14.90	4.85	270			
111	687.M	ama		31.0	24	22.3		24	585	123	0.12	1.10	390	12.7	28.6	15.9	3.80	1.460	4.17	0.675	4.31	0.40	2.38	0.395	3.24	0.318	2.40	1.19	1120		
112	688.M	bcb		33.4	76	37.9		23	273	128	0.22	1.51	247	8.2	20.7	15.4	3.65	1.300	4.37	0.739	4.99	0.49	3.02	0.460	3.19	0.311	2.94	1.44	1290		
113	689.M	byb		34.5	186	39.4		16	380	130	0.11	0.35	223	8.7	18.6	11.5	3.05	1.150	3.80	0.627	4.20	0.38	2.39	0.353	2.32	0.466	1.12	0.29	1170		
114	691.M	brf		36.6	112	37.9		17	302	252	0.20	0.76	256	13.5	34.5	22.9	5.87	1.950	6.97	1.100	7.01	0.68	4.05	0.635	4.99	0.64	2.10	1.10	1510		
115	700.M	mes		28.8	64	30.8		30	360	166	0.18	1.86	363	10.7	24.2	14.8	3.56	1.300		0.673	4.46	0.44	2.75	0.420	3.36	0.400	3.21	1.51	1120		
116	701.M	bls		30.7	133	35.3		12	388	179	0.12	0.34	293	8.3	21.0	12.5	3.32	1.230	3.85	0.545	3.51	0.37	2.35	0.339	2.51	0.360	1.15	0.44	1100		
117	702.M	bnf																													
118	703.M	iasc																													
119	707.M	mhi																													
120	717.M	ia3		31.7	49	21.8		42	299	194	0.18	2.25	444	12.7	29.9	18.3	4.91	1.470	5.42	0.920	6.20	0.62	3.64	0.598	4.86	0.430	4.11	1.41	1180		
121	720.M	rmuc																													
122	721.M	rmwc		27.9	86	28.6		21	521	120	0.21	1.05	328	9.3	21.6	13.9	3.36	1.150	3.16	0.486	3.25			1.95	0.242	2.66	0.216	2.17	0.98	1040	
123	723.M	mnl		27.9	45	27.8		38	336	178	0.14	2.03	415	11.3	26.6	16.6	4.23	1.360	4.47	0.781	5.06	0.54	3.36	0.480	4.47	0.381	3.78	1.74	1130		
124	726.M	iasb		19.2	71	21.9		52	557	140	0.32	2.35	624	28.2	63.6	32.8	6.72	1.640	5.97	0.803	5.05	0.39	2.39	4.92	0.891	5.73	1.87	928			
125	728.M	mhi		22.6	75	27.3		38	567	160	0.26	1.65	514	19.0	45.4	23.2	5.26	1.550	5.23	0.781	5.22	0.46	2.81	0.423	4.41	0.781	3.78	1.70	1070		
126	732.M	bc		42.8	174	42.2			250	147		1.41	4.9	13.0	9.3	2.80	1.130	4.00	0.673	4.56	0.49	3.08	0.461	2.13	0.163	0.22		1350			
127	734.M	mts		25.8	46	34.0		36		124	0.16	2.03	244	7.8	19.1	11.2	2.89	0.893	3.19	0.522	3.58	0.37	2.39	0.361	2.98	0.302	3.72	1.33	934		
128	735.M	ia1		32.7	57	22.8		41	450	127	0.25	2.27	391	13.3	31.2	18.2	4.61	1.470	4.64	0.797	5.00	0.50	3.19	0.544	4.49	0.440	4.31	1.99	1170		
129	737.M	msc																													
130	744.M	iasb		20.5	71	23.5		42	499	158	0.19	1.76	605	20.5	47.4	24.9	5.18	1.440	4.97	0.766	4.95	0.40	2.57	0.390	4.55	0.764	4.39	1.88	974		
131	752.M	bcb		36.7	210	39.8		8	334	130	0.																				

1	A	B	C	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG		
2	Sample No.	Unit	Map	INAA (in ppm)		Sc	Cr	Co	Zn	Rb	Sr	Zr	Sb	Cs	Ba	La	Ce	Nd	Sm	Eu	Gd	Tb	Dy	Tm	Yb	Lu	Hf	Ta	Th	U	Mn
149	830.M	rse		5.0		1.6	35	123			221	1.20	6.44	839	25.9	50.3	20.0	4.34	0.600	5.10	0.720		0.43	3.12	0.438	5.98	1.030	13.40	4.07		
150	853.M	beb		29.6	116	39.0	83	13			124		0.38	291	9.3	18.2	12.0	3.40	1.160	3.40	0.560		0.27	2.28	0.354	2.51	0.430	1.10	0.30		
151	887.M	bwc		30.9	180	43.0	71	16			-	0.26	0.80	143	7.6	15.2	10.5	3.02	0.933	3.70	0.550		0.37	2.70	0.410	2.37	0.44	1.95	0.69		
152	898.M	mhi		20.4	75	27.5	80	39			157	0.30	1.65	518	19.4	37.8	22.0	4.85	1.300	4.80	0.630		0.34	2.40	0.383	3.93	0.690	3.96	1.30		
153	900.M	dt		13.4	2	8.2	66	64			228	0.36	3.27	641	20.4	38.8	21.3	4.79	1.140	5.20	0.810		0.45	2.61	0.408	5.42	0.670	6.78	2.26		
154	912.M	ds		8.5	15	7.2	41	134			243	0.99	7.67	703	23.2	44.0	21.0	4.53	0.800	4.40	0.780		0.45	3.16	0.443	6.26	0.990	13.80	4.86		
155	919.M	bu		29.3	56	43.1	69	13					0.58	99	4.4	9.5	9.0	2.43	0.860	2.60	0.520		0.24	2.22	0.360	2.03	0.150	1.21	0.37		
156	928.M	msp		29.0	92	29.9	79	15			119		0.23	259	10.8	23.1	15.7	3.40	1.090	4.30	0.510		0.31	1.88	0.289	2.54	0.390	1.60	0.53		
157	933.M	m14																													
158	934.M	brf		34.2	125	37.7	96	23			171		1.05	255	13.4	28.6	21.0	5.82	1.640	5.10	0.980		0.56	4.04	0.620	4.32	0.61	2.37	0.92		
159	935.M	bnb		30.3	101	39.7	90				137			336	10.8	22.9	17.0	4.29	1.450	3.40	0.740		0.28	2.59	0.385	2.88	0.480	0.60	0.21		
160	939.M	bsp																													
161	940.M	msp																													
162	941.M	bsp		29.0	96	31.5	83	12					0.43	211	7.7	17.7	11.0	2.98	1.040	3.10	0.490		0.31	1.73	0.280	1.99	0.210	0.94	0.29		
163	942.M	asr		20.3		11.4	93	38			198	0.24	1.54	771	21.8	44.5	27.0	6.40	2.030	6.10	1.000		0.60	3.51	0.527	5.23	0.680	3.74	1.20		
164	955.M	adh		27.6	112	25.5	58	50			182	0.30	2.58	457	13.8	31.5	14.9	4.11	1.290	4.95	0.882		0.57	3.65	0.559	4.91	0.499	4.91	1.64		
165	967.M	adh		26.9	108	25.0	56	45			193	0.33	2.58	419	13.8	30.0	15.8	4.13	1.260	4.87	0.833		0.56	3.60	0.552	4.90	0.499	4.92	1.65		
166	977.M	bnw		27.4	382	40.8	63	19			112		0.68	241	11.0	23.5	14.7	3.70	1.290	4.42	0.699		0.37	2.21	0.330	2.84	0.626	1.61	0.50		
167	979.M	bpa		36.9	220	43.1	53	20			76	0.48	0.96	148	5.1	11.6	7.8	2.25	0.920	2.92	0.589		0.41	2.79	0.432	2.17	0.146	1.93	0.57		
168	980.M	bpa		35.2	212	43.8	49	9			70	0.10	0.59	90	3.2	7.1	5.4	1.80	0.817	2.51	0.492		0.35	2.28	0.358	1.52	0.089	0.98	0.38		
169	982.M	bmc		36.1	168	44.4	57	15			79		0.35	82.7	3.9	8.9	6.4	2.08	0.909	2.86	0.516		0.37	2.46	0.391	1.53	0.130	0.78	0.22		
170	983.M	bdh		33.8	127	35.6	59	24			114	0.18	1.29	179	7.1	18.9	11.5	3.07	1.090	3.80	0.613		0.44	2.84	0.436	2.75	0.31	2.59	1.20		
171	984.M	bng		34.7	64	37.8	67	5			95		0.28	101	6.0	20.0	12.4	3.56	1.400	4.27	0.718		0.45	2.78	0.431	2.77	0.319	0.34	0.54		
172	990.M	bmc		36.5	159	39.9	59	13	242		94	0.08	0.61	145	4.9	13.1	9.1	2.57	0.904	3.20	0.540		0.41	2.78	0.422	1.94	0.190	1.54	0.57		
173	1017.M	bwc																													
174	1019.M	byb		31.2	87	40.6	80	10	430			0.18	0.62	228	6.1	13.5	10.5	2.83	1.080		0.497			2.15	0.307	1.98	0.190	0.72			
175	1027.M	anh		24.7	24	16.7	55	26			122	0.13	1.16	472	13.8	35.2	18.1	4.23	1.480	4.78	0.716		0.40	2.41	0.368	3.59	0.507	2.64	1.20		
176	1028.M	bmc		32.2	149	38.4	63	38	316		130	0.25	1.94	254	8.2	17.2	9.5	2.92	0.917	3.62	0.658		0.47	3.00	0.466	2.74	0.303	3.93	1.08		
177	1031.M	bsc		33.9	123	38.5	65	16			135	0.09	0.73	221	8.3	18.2	10.9	3.29	1.150	3.96	0.689		0.42	2.67	0.386	2.58	0.262	1.31	0.50		
178	1039.M	asb																													
179	1064.M	byb		32	213	38.9	74	< 27.0	265	< 280	< 0.500	< 0.500	210	7.8	15.0	9.7	2.64	0.880	< 13.0	0.46		< 0.800	2.10	0.36	1.9	0.34	1.10	< 0.500			
180	1068.M	asr		< 9.00	12.9	94	38	392	240	0.33	1.3	740	22.2	42	23.0	6.34	2.0	< 14.0	0.93			< 2.10	3.30	0.52	4.8	0.62	3.60	1.2			
181	1076.M	aeg		29.9	43	23.1	91	24	550	380	< 0.500	0.77	450	16.1	27	16.0	4.10	1.30	< 6.00	0.62		< 1.80	2.60	0.32	3.0	0.33	2.20	< 1.10			
182	1086.M	men		26.5	45	36.5	71	23	485	146	0.19	1.27	323	9.64	20.2	12.0	3.63	1.225	0.64			2.39	0.328	2.67	0.339	2.24	0.91				
183	1089.M	acc		24.8	45	19.0	80	48	302	250	0.37	2.1	500	15.8	32	19.0	5.29	1.4	< 13.0	0.92		< 2.90	3.80	0.58	4.9	0.52	4.70	1.8			
184	1092.M	mgf		29.7	140	36.3	71	44	< 500	260	0.52	2.50	220	8.5	18.0	10.0	2.91	0.810	< 11.0	0.640		< 1.60	3.00	0.430	2.70	0.36	5.1	1.90			
185	1094.M	mgf		28.7	76	28.0	86	17	598	< 250	< 0.500	0.59	340	11	22	14.0	3.55	1.21	< 8.00	0.54		< 1.60	2.20	0.31	2.4	0.30	1.70	0.48			
186	1095.M	mgf		25.2	80	26.0	78	14	606	160	< 0.400	0.50	320	10	19	13.0	3.14	1.08	< 4.00	0.45		< 1.30	1.90	0.30	2.1	0.21	1.40	< 0.400			
187	1096.M	m17		33.3	61	29.7	96	17	281	360	< 0.600	0.76	380	10	22	14.0	4.15	1.31	< 9.00	0.73		< 2.20	3.10	0.48	3.0	0.29	1.90	< 0.300			
188	1097.M	asr		19.0	< 8.00	10.1	97	48	399	250	0.29	1.6	840	20.9	45.4	26.0	6.52	2.00	< 12.0	1.0		< 2.80	3.70	0.51	5.33	0.72	3.91	1.3			
189	1098.M	brh		31.4	63	40.5	90	42	377	< 290	< 0.500	< 0.700	240	7.2	16.0	11.0	3.13	1.200	< 6.00	0.54		< 1.70	2.30	0.38	2.2	0.22	0.82	< 0.500			
190	1101.M-A	mgf																													
191	1101.M-B	mgf																													
192	1110.M	mwg																													
193	1113.M	mwg																													
194	1114.M	bnp		31	210	43.9	76	< 29.0	507	< 300	< 0.500	< 0.700	180	5.9	12.0	9.1	2.47	0.930	< 8.00	0.47		< 1.70	2.30	0.29	1.7	0.22	0.62	< 0.500			
195	1115.M	mwg																													
196	1127.M	a9																													
197	1129.M	mel																													
198	1132.M	a8																													
199	1144.M	bwc		29.8	164	39.7	64	38	265	136	0.31	2.12	250	9.8	20.6	14.0	3.22	0.960		0.650				2.76	0.420	3.12	0.57	4.18	1.38		
200	1162.M	rgf		4.5		1.2	28	143	71	162	1.45	7.77	814	26.2	49.0	19.7	4.35	0.456		0.626				3.10	0.477	5.38	1.033	14.20	5.00		
201	1163.M	as		26	23																										

1	A	B	C	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG		
2	Sample No.	Unit	Map	INAA (in ppm)		Sc	Cr	Co	Zn	Rb	Sr	Zr	Sb	Cs	Ba	La	Ce	Nd	Sm	Eu	Gd	Tb	Dy	Tm	Yb	Lu	Hf	Ta	Th	U	Mn
295	1422.M	iaib																													
296	1443.M	ib		25.4	89	29.5	52	10	750	<80	<0.08	0.28	210	7.26	15.9	9.4	2.82	1.008		0.432					1.63	0.243	1.73	0.179	0.83	0.26	
297	1444.M	ib																													
298	1445.M	ib																													
299	1446.M	ib																													
300	1447.M	iaib																													
301	1449.M	imni																													
302	1450.M	iaib																													
303	1470.M	ib																													
304	1471.M-A	ib		30.4	98	32.0	79		670	120			0.28	223	7.4	16.0	11.3	2.98	1.080		0.52				2.14	0.298	2.05	0.178	0.83	0.24	
305	1471.M-B	ib		33.6	101	34.6	86	10	560					237	7.9	18.4	10.5	3.29	1.170		0.582				2.76	0.398	2.37	0.205	0.99	0.35	
306	1472.M	imsp																													
307	1474.M	imfh																													
308	1478.M	ib																													
309	1482.M	iaib		18.3	54	23.6	73	44	520	172	0.28	2.04	578	21.6	42.9	19.9	4.88	1.24		0.7					2.27	0.353	3.93	0.71	4.90	1.66	
310	1497.M	imfh																													
311	1499.M	idta		16.1	7	11.8	66	53	420	230	0.35	2.9	566	16.5	33.6	16.7	4.28	1.08		0.666					2.41	0.356	4.66	0.566	5.53	2.04	
312	1500.M	idta		12.44	2	6.5	55	69	359	259	0.38	3.88	650	21	42.5	19.9	5.14	1.143		0.749					2.89	0.425	5.79	0.701	7.40	2.23	
313	1504.M	idta		11.21	2	6.7	54	62	344	232	0.37	3.46	630	19.5	38.8	20.7	4.8	1.07		0.717					2.69	0.399	5.18	0.669	6.81	2.28	
314	1506.M	ibmc		31.4	79	39.0	83	28	340	110	0.27	1.48	228	7.68	17.5	10.5	3.41	1.150		4.2	0.704				2.94	0.426	2.83	0.265	2.60	0.91	
315	1509.M	ibvc																													
316	1514.M-A	idta		16.56	<2	12.1	55	55	462	186	0.27	2.91	611	17.8	36.8	18.1	4.49	1.197		0.745					2.65	0.379	4.95	0.604	6.20	2.01	
317	1514.M-B	idta		15.21	3	10.4	56	69	411	167	0.34	4.32	619	17.7	37.2	17.5	4.48	1.16		0.762					2.73	0.398	5.14	0.682	6.48	2.19	
318	1514.M-P	idta		13.51	1	8.1	55	56	387	202	0.31	3.09	706	20.2	40.2	19.9	4.89	1.22		0.81					2.88	0.42	5.57	0.734	7.22	2.42	
319	1515.M	idta		13.94	<2	9.5	54	68	417	228	0.32	2.36	660	22.4	41.3	22.0	5.77	1.36		0.981					3.82	0.54	5.28	0.682	6.75	2.16	
320	1516.M	ib																													
321	1518.M	ibgd																													
322	1521.M	ibhp		33.7	206	39.9	69	15	366		0.11	0.63	177	6.19	13.7	9.1	2.59	0.970		0.509					2.25	0.313	1.95	0.255	1.19	0.40	
323	1523.M	ib6																													
324	1524.M	ibci																													
325	1526.M	ibng		33.5	87	43.9	82		381	149				133	7.02	17.1	12.8	3.81	1.370		0.742				2.78	0.413	2.71	0.316	0.39	0.26	
326	1528.M	iaawm																													
327	1529.M	imnm																													
328	1530.M	ibcu																													
329	1530.M	imnm																													
330	1531.M	imnm																													
331	1532.M	ianl																													
332	1534.M	imbp																													
333	1535.M	ia4																													
334	1536.M	idac																													
335	1537.M	ibac																													
336	1539.M	ibwc																													
337	1552.M	ibp																													
338	1558.M	ibdp		33.6	120	43.5	78		350	140				219	5.7	14.1	10.0	3.14	1.240		0.609				2.50	0.366	2.31	0.18	0.51	0.20	
339	1559.M	ibgd																													
340	1561.M	iaeg																													
341	1561.M	iaeg																													
342	1562.M	ibgd		27.5	178	40.3	63	15	410	170	0.10	0.72	207	11.2	25.1	15.4	4.46	1.42		0.78					2.87	0.399	3.71	0.51	1.58	0.51	
343	1562.M	ibgd																													
344	1563.M	ibgd																													
345	1565.M	ibmc		33.7	103	42.7	88	20	341	160	0.20	0.8	162	6.82	15.8	13.3	3.43	1.210		0.72					2.93	0.429	2.71	0.252	1.80	0.86	
346	1568.M	ibrf																													
347	1570.M	ibmc																													
348	1572.M	imsn																													
349	1573.M	imhi		21.7	77	28.5	71	36	503	186	0.23	1.65	499	20.1	41.2	21.7	5.29	1.450		0.774					2.67	0.392	4.22	0.783	3.87	1.35	
350	1574.M	imen																													
351	1575.M	imen		26.3	44	36.4	74	23	479	129	0.10	1.12	320	9.31	20.3	12.6	3.63	1.240		0.62					2.39	0.343	2.68	0.32	1.95	0.64	
352	1578.M	imen																													
353	1583.M	ibnr		36	203	54.5	45	<13	215	<100	<0.09	<0.2	57	1.46	4.5	4.7	1.59	0.692		0.464					2.19	0.328	0.95	<0.08	<0.1	<0.4	
354	1586.M	ibdb																													
355	1591.M	idta																													
356	1597.M	ibdb		36.3	188	47.5	56	<5	350	150	<0.1	<0.2	84	4.65	11.6	9.0	2.77	1.031		0.592					2.38	0.366	1.82	0.284	0.33	<.4	
357	1599.M	ibgd																													
358	1603.M	ibdb		39	182	47.4	59	<5	360	<180	<0.2	<0.2	111	4.83	11.7	9.5	2.98	1.090		0.648					2.78	0.387	1.92	0.248	0.30	0.74	
359	1604.M	ibdb		36.7	171	46.0	54	8	350	160	<0.1	<0.2	109	5.77	14.3	10.5	3.04	1.080		0.66</											

1	A	B	C	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG			
2	Sample No.	Unit	Map	INAA (in ppm)		Sc	Cr	Co	Zn	Rb	Sr	Zr	Sb	Cs	Ba	La	Ce	Nd	Sm	Eu	Gd	Tb	Dy	Tm	Yb	Lu	Hf	Ta	Th	U	Mn	
368	1630.M	bdb																														
369	1649.M	dec																														
370	1650.M-A	dta		15.3	3	10.2	73	67	432	197	0.34	3.67	600	19.5	40.5	19.9	5.03	1.21							2.80	0.407	5.34	0.68	6.78	2.54		
371	1650.M-B	dta																														
372	1657.M	btw																														
373	1663.M	dta																														
374	1663.M-A	dta		13.95	2	8.4	50	64	380	228	0.36	3.44	599	20.8	40.7	20.3	5.06	1.253							2.78	0.423	5.65	0.71	7.27	2.43		
375	1665.M	bl		25	141	28.2	60	10	600	141	0.12	0.4	302	7.42	15.4	9.1	2.67	0.937							1.63	0.233	1.81	0.193	1.33	0.45		
376	1666.M	bl																														
377	1667.M	mmn																														
378	1668.M	bl		28.1	55	25.4	81	24	640	145	0.16	0.95	372	12.4	25.6	14.4	3.56	1.31							2.16	0.312	2.88	0.342	2.32	0.74		
379	1669.M	bl		28.6	86	30.1	73	12	700	111	<0.1	0.41	302	8.8	19.6	11.9	3.21	1.160							1.87	0.264	2.13	0.221	1.20	0.39		
380	1670.M	bl		32.4	82	31.9	79	12	650	94	<0.2	0.51	257	9.3	21.3	13.0	3.29	1.260							2.24	0.319	2.45	0.224	1.23	0.32		
381	1671.M	byb		34.5	88	43.2	78	10	434	119	0.10	0.33	271	6.27	14.5	10.5	2.93	1.220							2.44	0.335	2.13	0.209	0.72	0.25		
382	1672.M	bl		26.3	57	31.3	78	8	627	72	0.14	0.32	300	7.33	16.2	10.8	3.07	1.180							1.98	0.286	2.09	0.2	0.84	0.25		
383	1673.M	rmuc																														
384	1674.M	b4																														
385	1681.M	m3																														
386	1687.M	bts																														
387	1688.M	anl																														
388	1689.M	drs		19.2	2	10.5	77	45	446	240	0.25	1.86	719	21.7	45.6	25.2	6.48	1.89							3.64	0.506	5.66	0.767	4.56	1.58		
389	1694.M-A	?		29.6	34	22.9	66	24	592	149	0.18	0.95	393	12.36	25.6	15.4	3.92	1.306							2.06	0.321	2.98	0.318	2.32	0.64		
390	1694.M-B	?		13.28	<2	7.2	66	59	328	249	0.33	3.25	586	18.8	42.7	19.4	5.08	1.19							3.23	0.489	6.28	0.709	6.96	2.08		
391	1694.M-C	?		29.9	22	24.0	75	22	600	220	0.11	1.12	381	12.3	28.4	13.6	3.71	1.31							2.04	0.32	3.08	0.322	2.55	0.64		
392	1704.M	bl		24.2	51	27.7	63	8	550	121	0.08	0.24	220	6.56	14	8.7	2.76	1.08							1.72	0.252	1.8	0.18	0.83	0.184		
393	1707.M	reg		4.61	<0.7	0.1	55	138	<10	151	2.64	8.88	74	43.2	87.5	41.3	9.55	1.165							6.66	0.952	6.75	1.353	13.72	4.78		
394	1708.M	bl																														
395	1709.M	bl		24	53	28.0	60	13	599	<80	0.17	0.59	276	7.45	15.9	9.4	3.12	1.11							1.84	0.28	2.07	0.208	1.17	0.43		
396	1716.M	bp		34.2	140	43.4	60	11	375	150	<0.07	0.32	183	10.22	22.2	13.3	3.78	1.2							2.53	0.374	2.42	0.84	0.8	0.25		
397	1717.M	bp																														
398	1718.M	bp		29.4	149	39.3	56	16	501	166	<0.2	0.34	266	15.6	32.8	18.1	4.65	1.39							2.54	0.353	3.25	1.3	1.28	0.32		
399	1720.M	dta																														
400	1721.M	aes		28.2	39	22.3	67	49	340	205	0.39	2.58	458	16.7	34.2	18.6	5.35	1.43							3.72	0.543	4.83	0.522	4.53	1.54		
401	1722.M	dta																														
402	1723.M	drs		17.6	2	10.2	67	54	430	228	0.25	2.43	571	20.3	40.7	21.5	5.5	1.49							3.35	0.491	5.36	0.59	5.62	1.76		
403	1724.M	bl		23.8	53	27.8	60	8	577	80	<0.07	0.23	249	6.25	14	9.1	2.86	1.09							1.72	0.244	1.84	0.185	0.66	0.252		
404	1725.M	bl																														
405	1726.M	bl																														
406	1727.M	dta																														
407	1727.M-A	dta		16.1	4	11.8	56	55	424	220	0.25	2.7	559	18	35.6	18.3	4.59	1.15							2.49	0.363	4.71	0.58	5.81	1.89		
408	1728.M	dta																														
409	1729.M	bl																														
410	1730.M	rmh		6.01	3	3.2	37	120	148	253	1.03	6.7	901	22.9	43.4	18.3	4.42	0.76							3.22	0.481	7.12	0.855	11.99	4.31		
411	1731.M	bdb		36.4	167	45.7	63	8	421	170	<0.1	<0.2	132	8.82	21	13.9	3.98	1.36							2.79	0.408	2.7	0.713	0.6	0.14		
412	1732.M	bl																														
413	1733.M	b17		28.4	100	32.0	52	11	700	130	<0.07	0.4	200	9.5	19.1	11.3	2.98	1.003							1.63	0.251	2.23	0.25	1.53	0.47		
414	1734.M	bl																														
415	1741.M	dta																														
416	1741.M-A	dta		13.73	2	9.0	57	66	374	196	0.32	3.39	592	18.2	37.6	19	4.65	1.14							2.43	0.375	5.13	0.649	6.43	2.1		
417	1745.M	rmj																														
418	1749.M	men																														
419	1750.M	men																														
420	1751.M	men																														
421	1752.M	rmhi																														
422	1753.M	m1		28.8	34	36.9	80	27	450	142	0.15	1.32	381	10.9	23.9	14.4	4.28	1.45							2.68	0.395	3.12	0.401	2.32	0.74		
423	1754.M	rmhi																														
424	1755.M	men		27.1	45	36.9	72	26	465	150	<0.08	1.28	333	9.74	21.1	13.1	3.76	1.27							2.29	0.356	2.77	0.366	2.24	0.87		
425	1756.M	a2		25.8	5	18.4	83	30	544	183	0.17	1.29	599	17	36.9	20.4	5.33	1.81							2.98	0.416	4.34	0.601	3.24	1		
426	1757.M	mtl																														
427	1758.M	mtl																														
428	1759.M	mtl																														
429	1760.M	bss		23.6	63	30																										

1	A	B	C	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG		
2	Sample No.	Unit	Map	INAA (in ppm)		Co	Zn	Rb	Sr	Zr	Sb	Cs	Ba	La	Ce	Nd	Sm	Eu	Gd	Tb	Dy	Tm	Yb	Lu	Hf	Ta	Th	U	Mn		
587	828 M-C			30.8	39	27.2	100	18		141		0.75	365	12.5	26.8	20.0	5.00	1.570	3.50	0.790		0.44	3.18	0.469	3.29	0.420	1.52	0.46			
588	1021 M																														
589	1022 M																														
590	1023 M																														
591	1024 M			35.2	144	44.2	52					0.14	127	4.6	14.4	10.1	2.78	1.090	3.53	0.590		0.41	2.48		1.81	0.162	0.23	0.28			
592	1085 M			39.0	240	52.2	81	< 30.0	203	< 310	< 0.600	< 0.800	< 100	2.3	5.5	5.0	1.88	0.715	< 7.00	0.42		< 1.20	2.40	0.38	1.2	0.052	< 0.800	< 0.400			
593	1188 M			20.6	110	25.0	88	< 50.0	387	< 180	< 0.500	0.95	570	20.1	39	21.0	4.77	1.2	< 5.00	0.64		< 0.300	2.10	0.33	3.8	0.43	2.60	0.91			
594	1333 M			39	190	47.6	88	< 19.0	311	< 170	< 0.5	< 0.7	130	3.0	8.0	6.6	2.50	0.930		0.54			2.43	0.38	1.5	< 0.3	0.24	< 0.40			
595	1468 M																														
596	1501 M																														
597	1502 M																														
598	1503 M																														
599	1548 M			40.1	271	46.9	79		259				2.64	8.2	6.5	2.4	0.940			0.59			2.58	0.379	1.54	0.106					
600	1549 M			38.8	232	46.2	53	< 5	267	< 60	< 0.1	< 0.2	91	2.27	7.2	5.3	2.34	0.895		0.579			2.47	0.362	1.35	< 0.08	< 0.1	< 0.4			
601	1550 M			28.4	145	37.8	51	11	590	< 150	< 0.1	0.23	170	5.9	12.5	7.8	2.47	0.860		0.457			1.84	0.27	1.64	0.137	0.73	0.54			
602	1551 M																														
603	1602 M			35.7	215	50.5	42	< 5	232	< 100	< 0.2	< 0.2	63	2.32	5.3	5.7	1.82	0.735		0.489			2.14	0.311	1.1	< 0.08	< 0.2	< 0.2			
604	1623 M			33.9	216	44.0	54	5	460	140	< 0.6	< 0.2	114	4.07	10.4	6.9	2.31	0.872		0.511			2.19	0.314	1.57	0.117	0.53	0.16			
605	1624 M			31.7	190	43.0	57	< 5	530	< 100	< 0.06	< 0.2	128	4.62	10.5	7.9	2.36	0.870		0.464			2.09	0.318	1.57	0.107	0.67	0.18			
606	1632 M			38.4	234	48.1	72	< 5	250	140	< 0.1	< 0.2	125	2.86	6.8	7.4	2.47	0.920		0.565			2.58	0.341	1.35	0.077	0.14	< 0.3			
607	1633 M																														
608	1634 M																														
609	1635 M			36.6	135	46.5	79	< 5	372	121	< 0.1	< 0.2	176	4.93	12.5	9.8	2.82	1.160		0.588			2.47	0.355	2.06	0.195	0.41	< 0.3			
610	1664 M																														
611	1702 M																														
612	1703 M			39.8	206	47.4	65	< 6	260	< 120	< 0.07	< 0.2	76	2.38	7.1	5.9	2.33	0.906		0.571			2.4	0.375	1.39	0.13	0.26	< 0.1			
613	1849 M																														
614	1850 M																														
615	1851 M																														
616	1852 M																														
617	1891 M																														
618	1912 M																														