

Table 7. Electron microprobe analyses and structural formulae of muscovite from plutonic and metamorphic rocks of the Peninsular Ranges batholith, San Diego County, California																															
Sample	Unit/ Suite	Grain ¹	Comment	SiO ₂	TiO ₂	Al ₂ O ₃	Cr ₂ O ₃	FeO	MnO	MgO	CaO	BaO	Na ₂ O	K ₂ O	F	Cl	Total	Oxs	Si	Ti	Al	Cr	Fe	Mn	Mg	Ca	Na	K	F	Cl	Total
No.																															
MP6	Harper Creek (Jhc)	ms1c		45.23	1.07	34.51		1.00		0.83			0.56	10.07			93.27	22	6.14	0.11	5.52	0.00	0.11	0.00	0.17	0.00	0.15	1.74	0.00	0.00	13.94
MP6	Jhc	ms1r		45.21	1.10	34.67		1.09		0.85			0.59	10.01			93.52	22	6.12	0.11	5.53	0.00	0.12	0.00	0.17	0.00	0.16	1.73	0.00	0.00	13.94
MP6	Jhc	ms2c		46.14	0.98	34.83		1.01		0.86			0.59	10.01			94.41	22	6.17	0.10	5.49	0.00	0.11	0.00	0.17	0.00	0.15	1.71	0.00	0.00	13.91
MP6	Jhc	ms2r		46.15	1.02	35.02		1.05		0.81			0.66	9.90			94.61	22	6.16	0.10	5.51	0.00	0.12	0.00	0.16	0.00	0.17	1.69	0.00	0.00	13.91
MP6	Jhc	ms3c		44.63	1.18	34.43		0.98	0.07	0.81			0.54	10.05			92.70	6	1.66	0.03	1.51		0.03		0.05		0.04	0.48			3.80
MP6	Jhc	ms3r		43.83	1.12	34.28		1.17		0.83			0.46	9.79			91.49	6	1.66	0.03	1.53		0.04		0.05		0.03	0.47			3.80
J40	Jhc	ms1r-1		45.23	1.04	35.06		0.92		0.85			0.40	10.40			93.90	22	6.10	0.11	5.58	0.00	0.10	0.00	0.17	0.00	0.11	1.79	0.00	0.00	13.95
J40	Jhc	ms1r-2		46.38	1.04	35.26		0.84		0.87			0.38	10.47			95.24	22	6.16	0.10	5.52	0.00	0.09	0.00	0.17	0.00	0.10	1.77	0.00	0.00	13.92
J40	Jhc	ms1c		44.68	1.41	34.66		1.01		1.03			0.37	10.61			93.76	22	6.06	0.14	5.54	0.00	0.12	0.00	0.21	0.00	0.10	1.84	0.00	0.00	14.00
J40	Jhc	ms2r-1		44.76	1.18	34.09		0.94		1.03	0.08		0.37	9.68			92.15	22	6.14	0.12	5.51	0.00	0.11	0.00	0.21	0.01	0.10	1.69	0.00	0.00	13.89
J40	Jhc	ms2r-2		42.54	1.21	33.08		0.80		0.87	0.14		0.36	9.77			88.76	22	6.07	0.13	5.57	0.00	0.10	0.00	0.19	0.02	0.10	1.78	0.00	0.00	13.95
J40	Jhc	ms2c		45.22	1.31	34.84		0.92		0.98	0.05		0.46	10.23			94.01	22	6.09	0.13	5.53	0.00	0.10	0.00	0.20	0.01	0.12	1.76	0.00	0.00	13.95
J40	Jhc	ms3		46.13	1.07	35.87		1.03		0.92			0.50	10.42			95.94	22	6.09	0.11	5.58	0.00	0.11	0.00	0.18	0.00	0.13	1.76	0.00	0.00	13.96
CP66	Jhc	ms1		45.95	1.30	35.08	0.04	0.85	0.03	0.59	0.01	0.08	0.84	10.16	0.07	0.01	94.98	22	6.13	0.13	5.51	0.004	0.10	0.003	0.12	0.001	0.23	1.73	0.03	0.002	13.97
CP66	Jhc	ms3		45.35	1.43	35.55	0.01	0.82	0.04	0.52		0.05	0.86	10.21	0.03	0.01	94.88	22	6.06	0.14	5.60	0.001	0.09	0.005	0.10	0.00	0.22	1.74	0.01	0.002	13.98
1079A1 ²	Western metavolcanic rocks (Kmv)	ms1c	Large shee	45.95	0.59	35.02		1.83		0.69			0.62	10.02			94.72	22	6.16	0.06	5.53	0.00	0.21	0.00	0.14	0.00	0.16	1.71	0.00	0.00	13.96
1079A1		ms1r	"	45.70	0.57	34.97		1.68		0.63			0.62	10.28			94.45	22	6.15	0.06	5.54	0.00	0.19	0.00	0.13	0.00	0.16	1.76	0.00	0.00	13.99
1079A1		Kmv	ms2c	Small lath	46.44	0.22	35.35		1.91		0.76			0.60	10.49			95.78	22	6.17	0.02	5.53	0.00	0.21	0.00	0.15	0.00	0.16	1.78	0.00	0.00
1079A1	Kmv	ms2r	"	45.50	0.36	34.89		1.94		0.69			0.60	10.27			94.25	22	6.14	0.04	5.55	0.00	0.22	0.00	0.14	0.00	0.16	1.77	0.00	0.00	14.01
1079J ²	Julian Schist (JTrm)	ms1		46.31	0.67	33.68		1.49		1.05			0.32	10.74			94.25	22	6.25	0.07	5.35	0.00	0.17	0.00	0.21	0.00	0.08	1.85	0.00	0.00	13.98
1079J	JTrm	ms2		46.91	0.92	34.61		1.34		0.86			0.36	10.64			95.63	22	6.22	0.09	5.41	0.00	0.15	0.00	0.17	0.00	0.09	1.80	0.00	0.00	13.93
1079L1 ²	JTrm	ms1		46.79	0.39	36.12		0.86		0.73			0.40	10.21			95.50	22	6.17	0.04	5.62	0.00	0.10	0.00	0.14	0.00	0.10	1.72	0.00	0.00	13.89
1079L1	JTrm	ms2		46.85	0.70	35.70		1.00		0.70			0.34	10.24			95.53	22	6.19	0.07	5.56	0.00	0.11	0.00	0.14	0.00	0.09	1.73	0.00	0.00	13.87
1. Muscovite = ms; ms1c, first grain, point in core; ms1r, first grain, point in rim; ms2r-1, grain 2, first point in rim; ms2r-2, grain 2, second point in rim																															
2. 1079A1 and 1079J are pelitic schist; 1079L1 is semi-pelitic schist																															
3. Blank space indicates element/oxide not determined, not present, or below detection limit																															