

TABLE 3. CHEMICAL ANALYSES LEVEN GORGE ANDESITES AND DACITES

Name	Diorite'	Diorite'	Diorite'	Andesite	Tyndall Dacite	Tyndall Dacite	Dacite
Number	157	158	159	174	148	149	187
Locality	Central gorge	Central gorge	Central gorge	Upper gorge	Lower gorge	Lower gorge	Upper gorge
Easting	416250	416150	416925	417750	415600	415750	418300
Northing	5421300	5420925	5420125	5418150	5423025	5422750	5417000
SiO ₂	61	63	54.5	59.4	69	61.3	64
TiO ₂	0.77	0.79	0.77	0.55	0.53	0.45	0.83
Al ₂ O ₃	14	14.4	18.1	16	15.1	13	17.3
Fe ₂ O ₃	7.48	7.37	6.7	7.35	3.9	2.46	7.11
MnO	0.12	0.19	0.15	0.14	0.01	0.1	0.01
MgO	1.69	2	1.9	2.84	0.44	0.86	0.8
CaO	2.82	1.07	3.15	2.14	0.12	1.99	0.32
Na ₂ O	3.52	3.84	6.01	5.23	0.35	2.84	0.1
K ₂ O	4.09	4.63	3.17	2.61	9.45	4.42	7.52
P ₂ O ₅	0.32	0.35	0.2	0.18	0.09	0.07	0.24
LOI	3.7	2.52	3.92	4.39	1.72	3.26	3.31
Ba	1450	1250	1200	700	1600	1300	1800
Rb	96	110	68	64	270	160	200
Sr	175	105	220	58	52	130	26
Y	31	42	19	12	29	31	34
Nb	22	22	14	22	32	30	46
Zr	160	180	110	100	230	210	250
Ni	<2	<2	8	11	2	<2	3
Cr	<20	<20	<20	30	30	<20	20
As	4	8	<3	<3	8	4	6
Sb	<0.5	<0.5	<0.5	0.5	14	1	3
Th	11.5	12	5	6	19	18.5	16
U	2.6	3.2	1.25	1.35	2.8	4.3	3.5
La	40.5	47	13.5	20.5	42	42.5	26.5
Nd	35.5	38	14	16	36	34.5	27
Ce	82	78	24.5	37	90	88	54
Sm	6.5	7	2.7	2.7	6	6	4.7
Eu	2.1	2.3	0.83	0.98	1.75	1.7	1.4
Gd	6.5	8	3.1	2.4	5.5	5.5	4.7
Tb	0.91	1.1	0.48	0.33	0.75	0.8	0.79
Yb	3.7	4.2	2.4	1.7	3.4	3.5	4.5
Tl	0.3	0.3	0.4	0.4	2.9	0.9	1.4
Cu	11	7	27	<2	3	68	32
Pb	<5	310	48	<5	18	8	10
Zn	130	600	135	140	25	550	58
Ag							
Au	0.001	0.001		0.003	0.001	0.001	0.003
S	200	<100	200	<100	<100	300	<100