

Table 2. Results from Major and Trace Element XRF Analyses (1 of 6)¹

Sample	L5P-526-1	L5P-526-2	L5P-526-3	L5P-526-5	L5P-601-1	L5P-BT1	L5P-BT2	L5P-BT3	L5P-DD1	L5P-DD2	L5P-DMV1	L5P-DMV2	L5P-DMV3
Latitude	32.9487	32.9486	32.9485	32.9486	32.9551	32.9666	32.9590	32.9340	32.9673	32.9305	32.9651	32.9597	32.9336
Longitude	116.5097	116.5095	116.5089	116.5078	116.5305	116.5192	116.5121	116.5143	116.5188	116.5134	116.5182	116.5115	116.5141
Rattlesnake Valley pluton													
SiO ₂	71.8	72.0	75.6	74.6	74.9	73.8	75.1	73.7	73.8	74.7	71.7	74.9	70.2
Al ₂ O ₃	15.1	15.0	13.6	14.7	13.9	14.7	14.0	14.1	14.2	14.6	15.2	14.4	15.4
FeO*	1.98	2.11	0.95	0.84	1.06	1.23	1.00	1.95	0.93	0.91	1.93	0.92	1.91
CaO	2.30	2.20	0.61	0.43	0.93	1.08	0.82	1.99	1.14	0.44	2.23	0.39	2.18
MgO	0.57	0.62	0.09	0.06	0.06	0.24	0.12	0.58	0.18	0.07	0.58	0.06	0.59
K ₂ O	2.77	2.69	4.45	4.40	3.58	3.97	3.74	2.74	3.52	4.13	3.04	3.96	3.13
Na ₂ O	3.88	3.92	3.49	3.95	4.36	3.88	3.91	3.61	3.96	3.91	3.86	4.20	3.97
MnO	0.08	0.08	0.09	0.09	0.07	0.08	0.07	0.07	0.07	0.09	0.07	0.09	0.07
TiO ₂	0.19	0.20	0.04	0.02	0.03	0.08	0.04	0.19	0.06	0.02	0.19	0.02	0.19
P ₂ O ₅	0.13	0.12	0.06	0.07	0.05	0.10	0.07	0.08	0.09	0.08	0.09	0.10	0.09
LOI	0.56	0.61	0.53	0.77	0.22	0.68	0.55	0.57	0.55	0.84	0.45	0.66	0.49
Total	99.36	99.55	99.51	99.93	99.16	99.84	99.42	99.58	98.50	99.79	99.34	99.70	98.22
Sc	4	4	2	1	b.d.	2	1	4	2	1	3	1	5
V	20	22	4	2	3	10	5	22	9	3	20	3	24
Cr	30	12	28	25	19	35	23	20	19	9	32	30	28
Co	46	51	61	50	30	55	62	53	61	61	49	56	57
Cu	4	4	4	4	4	3	3	3	4	3	3	3	3
Zn	37	40	17	26	37	39	33	38	26	22	35	29	26
Rb	95	91	112	171	116	140	114	81	111	159	83	151	94
Sr	215	219	69	38	105	114	93	202	116	40	221	46	228
Y	19	19	23	23	18	21	37	20	18	24	19	23	18
Zr	86	91	42	32	47	55	46	88	53	41	87	38	86
Nb	7	8	6	10	10	9	8	7	7	9	7	10	7
Ba	565	533	718	438	825	710	808	593	685	451	599	449	620
Hf	4	3	2	2	2	2	2	3	2	2	4	2	3
Pb	12	10	17	15	15	14	15	10	14	16	12	13	11
Th	6	7	5	5	8	7	5	7	5	6	7	5	8
U	4	1	1	1	1	b.d.	1	1	1	3	2	1	2

¹ major elements in wt%; trace elements in ppm; b.d. - below detection; n.a. - not available

Table 2. Results from Major and Trace Element XRF Analyses (continued 2 of 6)¹

Sample	L5P-EH1	L5P-EH2	L5P-EH3	L5P-EM1	L5P-EM2	L5P-EM3	L5P-JJ1	L5P-JJ2	L5P-JV2	L5P-JV1	L5P-KC1	L5P-KC2
Latitude	32.9706	32.9607	32.9308	32.9717	32.9637	32.9321	32.9679	32.9595	32.9643	32.9729	32.9696	32.9623
Longitude	116.5201	116.5129	116.5134	116.5203	116.5176	116.5137	116.5193	116.5116	116.5179	116.5208	116.5198	116.5170
Rattlesnake Valley (continued)												
SiO ₂	75.0	75.0	75.4	74.7	71.3	74.0	74.1	75.2	70.6	75.0	74.7	71.2
Al ₂ O ₃	14.6	14.5	14.1	14.5	15.0	15.0	14.1	14.1	15.8	14.3	14.0	15.3
FeO*	0.94	0.98	0.84	0.94	1.99	0.99	1.18	0.79	2.20	0.92	1.01	2.00
CaO	0.47	0.43	0.47	0.35	2.02	0.69	1.00	0.43	2.41	0.30	0.53	2.19
MgO	0.09	0.08	0.06	0.06	0.58	0.10	0.24	0.06	0.66	0.04	0.13	0.58
K ₂ O	4.15	3.98	4.07	4.12	2.88	4.22	3.82	4.01	2.88	4.05	3.98	2.90
Na ₂ O	4.05	4.17	3.84	4.17	3.72	4.04	3.66	3.97	3.94	3.95	3.81	3.96
MnO	0.09	0.09	0.08	0.08	0.08	0.07	0.08	0.07	0.08	0.08	0.09	0.08
TiO ₂	0.02	0.02	0.02	0.02	0.19	0.04	0.08	0.02	0.21	0.01	0.03	0.19
P ₂ O ₅	0.07	0.08	0.07	0.08	0.10	0.06	0.09	0.09	0.09	0.08	0.08	0.13
LOI	0.74	0.64	0.56	0.60	0.85	0.66	0.71	0.67	0.77	0.75	0.63	0.55
Total	100.22	99.97	99.51	99.62	98.71	99.87	99.06	99.41	99.64	99.48	98.99	99.08
Sc	1	1	2	b.d.	5	3	3	1	4	3	2	3
V	2	3	2	3	23	4	8	4	24	2	3	21
Cr	29	3	18	32	19	14	34	24	26	27	16	26
Co	59	60	74	56	72	43	55	67	58	63	60	56
Cu	3	3	3	3	3	3	3	3	3	4	3	3
Zn	41	34	11	41	40	18	36	28	42	31	33	37
Rb	153	165	161	163	97	147	138	142	91	169	146	97
Sr	50	50	40	38	208	75	104	56	238	27	62	220
Y	23	24	23	24	19	32	19	21	19	24	21	19
Zr	39	41	36	39	83	42	52	40	88	38	40	88
Nb	10	11	9	10	8	9	8	8	8	12	9	8
Ba	524	459	445	440	602	781	703	611	760	324	605	613
Hf	2	2	2	3	3	2	3	2	4	2	2	3
Pb	15	15	14	15	10	16	14	15	10	15	16	11
Th	5	5	5	5	7	5	6	4	8	6	5	7
U	1	3	2	2	1	3	1	b.d.	2	2	b.d.	1

¹major elements in wt%; trace elements in ppm; b.d. - below detection; n.a. - not available

Table 2. Results from Major and Trace Element XRF Analyses (continued 3 of 6)¹

Sample	L5P-KC3	L5P-MS1	L5P-MS2	L5P-RM1	L5P-RM2	L5P-SP1	L5P-SP2	CBT-02A-09	CBT-02B-09	CBT-03-09	CBT-04-09	CBT-05-09
Latitude	32.9325	32.9691	32.9582	32.9722	32.9616	32.9657	32.9300	32.9580	32.9580	32.9580	32.9582	32.9589
Longitude	116.5141	116.5193	116.5124	116.5208	116.5155	116.5187	116.5132	116.5111	116.5111	116.5115	116.5124	116.5121
Rattlesnake Valley (continued)												
SiO ₂	75.8	75.1	75.3	75.6	70.1	71.4	74.2	73.7	74.6	75.1	74.1	75.6
Al ₂ O ₃	13.6	14.2	14.4	14.3	15.3	15.1	14.6	14.7	14.3	13.7	14.7	13.6
FeO*	0.94	1.00	1.02	0.95	2.98	2.23	0.67	0.99	1.08	1.03	1.11	0.97
CaO	0.61	0.48	0.66	0.28	3.03	2.28	0.32	0.46	0.47	0.80	0.65	0.49
MgO	0.08	0.12	0.11	0.04	1.00	0.68	0.03	0.07	0.08	0.16	0.14	0.13
K ₂ O	3.91	3.99	4.06	4.03	2.48	2.63	4.55	4.34	4.06	3.77	4.17	4.23
Na ₂ O	3.77	3.59	3.81	3.96	3.71	3.88	4.13	4.35	4.24	3.80	3.96	3.28
MnO	0.07	0.08	0.08	0.09	0.10	0.09	0.04	0.08	0.10	0.07	0.08	0.10
TiO ₂	0.03	0.03	0.04	0.01	0.32	0.21	0.01	0.02	0.03	0.05	0.04	0.03
P ₂ O ₅	0.09	0.04	0.14	0.08	0.14	0.10	0.06	0.08	0.09	0.07	0.05	0.08
LOI	0.64	0.90	0.69	0.69	0.49	0.75	0.72	0.03	0.03	0.02	0.03	0.03
Total	99.54	99.53	100.31	100.03	99.65	99.35	99.33	98.77	99.05	98.54	99.04	98.53
Sc	1	b.d.	1	1	6	3	1	b.d.	b.d.	b.d.	b.d.	b.d.
V	4	4	4	2	41	23	2	b.d.	b.d.	b.d.	b.d.	b.d.
Cr	23	24	16	21	17	26	19	3	3	4	6	16
Co	56	52	56	50	56	50	43	10	b.d.	18	b.d.	15
Cu	3	3	4	3	5	4	4	8	8	7	6	7
Zn	26	34	38	33	60	44	11	30	13	41	40	39
Rb	126	145	142	165	73	92	169	165	142	119	145	144
Sr	68	61	76	30	271	221	35	55	54	103	78	64
Y	19	20	22	24	21	21	27	22	23	18	23	28
Zr	40	41	45	43	101	91	40	43	43	52	50	52
Nb	8	9	9	10	8	8	8	7	8	6	8	4
Ba	626	676	690	359	569	493	426	496	401	831	658	537
Hf	2	3	2	3	2	4	3	n.a.	n.a.	n.a.	n.a.	n.a.
Pb	14	15	15	15	8	11	18	n.a.	n.a.	n.a.	n.a.	n.a.
Th	5	6	5	5	8	8	4	n.a.	n.a.	n.a.	n.a.	n.a.
U	2	b.d.	b.d.	3	2	2	3	n.a.	n.a.	n.a.	n.a.	n.a.

¹ major elements in wt%; trace elements in ppm; b.d. - below detection; n.a. - not available

Table 2. Results from Major and Trace Element XRF Analyses (continued 4 of 6)¹

Sample	CBT-06-09	CBT-07-09	CBT-08-09	CBT-09-09	CBT-10-09	CBT-11-09	CBT-12-09	CBT-14-09	CBT-15-09	CBT-16-09	CBT-17-09	CBT-20-09
Latitude	32.9589	32.9595	32.9597	32.9597	32.9670	32.9666	32.9659	32.9640	32.9628	32.9621	32.9613	32.9583
Longitude	116.5124	116.5116	116.5115	116.5115	116.5135	116.5136	116.5130	116.5123	116.5119	116.5117	116.5117	116.5111
Rattlesnake Valley (continued)												
SiO ₂	75.1	72.8	74.7	73.8	75.8	73.0	73.9	74.6	75.5	75.6	73.5	74.7
Al ₂ O ₃	14.0	14.2	14.1	14.7	14.0	14.3	15.1	13.8	13.9	14.9	14.4	14.3
FeO*	0.91	1.00	0.93	1.02	0.83	0.84	1.02	0.76	0.98	1.11	0.93	0.56
CaO	0.56	0.54	0.37	0.46	0.62	0.44	0.49	0.43	0.45	0.57	0.41	0.38
MgO	0.12	0.09	0.08	0.08	0.04	0.04	0.06	0.03	0.04	0.09	0.04	0.06
K ₂ O	3.85	3.95	4.14	4.14	2.52	4.11	3.14	3.42	3.64	2.79	4.03	3.92
Na ₂ O	3.78	4.17	4.00	4.33	4.20	4.18	4.68	4.31	4.09	2.57	4.18	4.27
MnO	0.07	0.09	0.07	0.08	0.05	0.08	0.09	0.08	0.09	0.08	0.10	0.08
TiO ₂	0.03	0.03	0.02	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02
P ₂ O ₅	0.10	0.08	0.08	0.13	0.09	0.08	0.08	0.08	0.08	0.05	0.09	0.04
LOI	0.03	0.02	0.02	0.03	0.03	0.02	0.04	0.02	0.02	0.05	0.02	0.03
Total	98.50	96.99	98.48	98.86	98.26	97.16	98.62	97.51	98.79	97.88	97.74	98.42
Sc	b.d.	b.d.	b.d.	b.d.	b.d.	b.d.	b.d.	b.d.	b.d.	b.d.	b.d.	b.d.
V	b.d.	b.d.	b.d.	b.d.	b.d.	b.d.	b.d.	b.d.	b.d.	b.d.	b.d.	b.d.
Cr	32	13	24	18	19	18	37	25	40	11	15	4
Co	b.d.	11	9	7	b.d.	b.d.	b.d.	b.d.	26	b.d.	b.d.	b.d.
Cu	7	7	6	6	5	3	3	4	3	8	3	8
Zn	33	39	37	30	13	22	23	15	36	24	41	11
Rb	133	145	155	156	91	152	130	131	147	91	160	136
Sr	64	58	49	55	46	47	30	40	31	58	23	53
Y	17	25	24	24	22	24	20	25	20	19	22	21
Zr	39	47	39	44	41	41	34	34	32	40	34	41
Nb	6	7	9	8	9	9	11	9	8	14	9	8
Ba	460	483	398	503	298	517	134	259	264	359	245	403
Hf	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Pb	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Th	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
U	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

¹ major elements in wt%; trace elements in ppm; b.d. - below detection; n.a. - not available

Table 2. Results from Major and Trace Element XRF Analyses (continued 5 of 6)¹

Sample	CBT-22-09	CBT-23-09	CBT-24-09	CBT-25-09	CBT-26-09	CBT-31-09	CBT-01-09	OF-01-05	OF-02-05	OF-03-05	OF-04-05	OF-05-05	OF-06-05
Latitude	32.95693	32.9553	32.9487	32.9510	32.9523	32.9307	32.9568	32.9566	32.9678	32.9622	32.9617	32.9721	32.9700
Longitude	116.51109	116.5104	116.5079	116.5085	116.5093	116.5085	116.5074	116.5042	116.5089	116.5049	116.5071	116.5097	116.5092
Rattlesnake Valley (continued)													
SiO ₂	74.7	74.2	74.3	73.4	74.0	74.3	69.2	68.1	68.8	65.8	67.6	74.2	67.8
Al ₂ O ₃	14.1	14.1	14.0	14.1	14.5	14.3	15.5	14.8	15.0	15.6	15.5	13.7	15.7
FeO*	0.87	0.92	0.85	1.06	0.90	1.00	3.04	3.38	3.24	4.25	3.56	0.49	3.43
CaO	0.76	0.49	0.50	0.52	0.48	0.36	3.16	3.48	3.16	3.70	3.42	1.09	3.62
MgO	0.12	0.05	0.04	0.11	0.05	0.03	0.67	0.91	0.84	1.11	0.89	0.06	0.86
K ₂ O	3.55	3.93	4.12	4.20	4.39	4.28	2.64	2.36	3.49	2.60	3.02	5.69	2.70
Na ₂ O	4.22	3.92	3.96	3.81	3.89	4.18	3.52	3.53	3.11	3.43	3.34	3.01	3.43
MnO	0.06	0.08	0.08	0.09	0.09	0.08	0.07	0.08	0.07	0.10	0.08	0.02	0.08
TiO ₂	0.05	0.03	0.02	0.04	0.02	0.02	0.34	0.39	0.38	0.49	0.41	0.04	0.40
P ₂ O ₅	0.07	0.08	0.08	0.08	0.08	0.08	0.07	0.10	0.10	0.12	0.12	0.05	0.12
LOI	0.02	0.02	0.02	0.02	0.02	0.03	0.02	2.50	1.55	2.34	1.64	1.61	1.51
Total	98.61	97.76	97.99	97.36	98.45	98.62	98.21	99.61	99.64	99.53	99.60	99.95	99.61
Sc	n.a.	b.d.	b.d.	b.d.	b.d.	b.d.	6	11	9	13	10	3	12
V	n.a.	b.d.	b.d.	b.d.	b.d.	b.d.	39	60	59	74	63	8	61
Cr	n.a.	27	25	21	87	21	7	24	19	30	12	26	4
Co	n.a.	23	32	63	36	b.d.	20	37	53	46	52	61	54
Cu	n.a.	3	3	3	3	3	9	4	4	6	8	5	6
Zn	n.a.	37	21	34	28	18	60	63	56	73	63	8	59
Rb	n.a.	153	161	162	154	145	91	77	100	97	97	126	89
Sr	n.a.	47	38	41	36	29	258	223	239	245	250	91	256
Y	n.a.	27	25	28	28	27	21	27	26	33	27	21	28
Zr	n.a.	43	38	45	39	45	132	127	103	127	117	35	116
Nb	n.a.	8	7	8	7	9	6	7	7	7	6	5	6
Ba	n.a.	578	451	493	468	352	1083	669	1152	806	1044	568	974
Hf	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	4	3	3	3	1	2
Pb	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	10	10	7	9	32	9
Th	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	8	9	2	7	6	4
U	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	4	2	2	2	2	2

¹ major elements in wt%; trace elements in ppm; b.d. - below detection; n.a. - not available

Table 2. Results from Major and Trace Element XRF Analyses (continued 6 of 6)¹

Sample	OF-07-05	OF-08-05	OF-09-05	OF-12-05	OF-13-05	OF-14-05	OF-15-05
Latitude	32.9731	32.9685	32.9664	32.9602	32.9601	32.9622	32.9705
Longitude	116.5089	116.5093	116.5085	116.5050	116.5069	116.5087	116.5017
Oriflamme Canyon pluton							
SiO ₂	73.8	68.4	67.6	67.9	66.6	67.9	70.1
Al ₂ O ₃	13.9	15.3	15.7	14.9	15.9	15.3	14.7
FeO*	0.86	3.43	3.59	3.80	3.83	3.85	2.70
CaO	1.16	3.62	3.62	3.21	3.84	3.58	2.84
MgO	0.21	0.87	0.94	0.96	0.98	1.01	0.66
K ₂ O	4.51	2.70	2.63	2.86	2.60	2.54	3.72
Na ₂ O	3.10	3.40	3.38	3.10	3.51	3.30	2.98
MnO	0.02	0.07	0.07	0.10	0.08	0.08	0.06
TiO ₂	0.10	0.40	0.42	0.46	0.45	0.47	0.31
P ₂ O ₅	0.06	0.11	0.11	0.11	0.12	0.11	0.08
LOI	2.20	1.27	1.59	2.13	1.66	1.47	1.59
Total	99.89	99.61	99.60	99.57	99.57	99.56	99.70
Sc	5	11	11	10	12	11	11
V	15	62	63	68	69	70	49
Cr	32	27	18	4	5	8	60
Co	71	57	55	59	55	83	68
Cu	4	6	7	5	6	7	4
Zn	11	61	60	91	62	70	47
Rb	137	86	87	108	85	92	99
Sr	111	260	260	233	272	255	234
Y	26	27	26	31	28	26	23
Zr	57	117	118	124	118	116	89
Nb	7	6	6	7	6	7	5
Ba	929	997	970	1092	1016	989	1219
Hf	2	3	3	4	3	2	2
Pb	34	8	8	7	7	5	10
Th	10	6	16	6	5	3	4
U	1	2	2	1	2	1	1

¹ major elements in wt%; trace elements in ppm; b.d. - below detection; n.a. - not available