

Table 4.5. Absolute and relative change of concentrations of selected major and trace elements for strongly supergene altered ore in reference boreholes (Rex 2 and Rex 24)

M-Zone				
Elements	Rex 2 (Strain: -14.8%)		Rex 24 (no M-Zone)	
	Absolute change (wt%/ppm)	Relative change (%)	Absolute change (wt%/ppm)	Relative change (%)
SiO ₂	0.001	0.02		
Mn ₃ O ₄	-8.50	-17.1		
Fe ₂ O ₃	-1.17	-16.8		
MgO	-2.50	-64.4		
CaO	-13.06	-90.7		
Na ₂ O	0.35	1773.0		
K ₂ O	0.85	8469.7		
Al	60.0	6.52		
B	-552.7	-95.3		
Ba	567.0	270.0		
Ni	1.10	7.33		
P	-58.4	-26.0		
Sr	171.0	53.4		
Zn	158.3	527.7		
Zr	-4.84	-64.5		
C-Zone				
Elements	Rex 2 (Strain: -57.3%)		Rex 24 (Strain: 2.86%)	
	Absolute change (wt%/ppm)	Relative change (%)	Absolute change (wt%/ppm)	Relative change (%)
SiO ₂	-1.02	-21.9	0.19	4.11
Mn ₃ O ₄	-29.1	-56.6	-11.0	-21.5
Fe ₂ O ₃	-2.60	-50.8	1.42	27.7
MgO	-1.28	-63.6	1.80	89.3
CaO	-16.8	-97.0	-8.09	-46.8
Na ₂ O	0.12	670.8	0.38	2065.7
K ₂ O	0.45	4111.8	0.38	3487.0
Al	-462.1	-50.8	-58.5	-6.43
B	-531.7	-96.7	-487.4	-88.6
Ba	156.2	13.0	-15.7	-1.31
Ni	-4.68	-27.5	-3.97	-23.3
P	-203.8	-73.6	-120.6	-43.5
Sr	430.4	79.7	589.5	109.2
Zn	12.7	16.3	61.0	78.2
Zr	-8.53	-87.1	-1.46	-14.9
N-Zone				
Elements	Rex 2 (Strain -2.41%)		Rex 24 (Strain: 8.16%)	
	Absolute change (wt%/ppm)	Relative change (%)	Absolute change (wt%/ppm)	Relative change (%)
SiO ₂	4.27	76.9	-0.10	-1.75
Mn ₃ O ₄	-2.88	-5.95	4.18	8.61
Fe ₂ O ₃	0.05	0.65	1.74	22.5
MgO	-1.20	-43.9	-1.32	-48.6
CaO	-14.3	-90.5	-11.4	-72.1
Na ₂ O	0.35	1729.3	0.28	1385.3
K ₂ O	0.65	5624.6	0.53	4572.3
Al	66.7	6.06	153.7	14.0
B	-579.2	-98.2	-393.0	-66.6
Ba	16.7	2.10	-177.1	-22.3
Ni	2.50	10.0	7.24	29.0
P	46.0	27.22	55.8	33.0
Sr	242.7	49.5	94.3	19.2
Zn	13.5	25.0	89.3	165.3
Zr	-1.07	-27.4	-0.94	-24.1

Note: Absolute changes are given in wt% for major elements and in ppm for trace elements. Mass balance calculations have only been done for trace elements with noticeable concentrations changes and concentrations greater than 5ppm.

