Table of Contents

LIST OF FIGURES

Figures **Pages**

Tables **LIST OF TABLES** **Pages**

Appendix **LIST OF APPENDICES** **Pages**

LIST OF ABBREVIATION

General Abbreviations and Units

CIA	- Chemical Index of Alteration
ArcGIS	- Geographic Information System
AR	- Argillic
PP	- Propylitic
FR	- Fresh rocks
SW	- Slightly weathered rocks
MW	- Moderately weathered rocks
HW	- Highly weathered rocks
CW	- Completely weathered rocks
VPS	- Very poor soft rocks
et al.,	- And others

eq. - Equivalent
ca. - Calculated
L - Liquid
V - Vapor
N, n, No. - Numbers
P - Pressure
T, Temp. - Temperature
X - Composition
XRD - X-Ray Diffraction
XRF - X-Ray Fluorescence
µm - Micrometer
mm - Millimeter
m - Meter
km - Kilometer
wt% - Weight percent
ppm - Parts per million
ppb - Parts per billion
° - Degree
°C - Degree Celsius
kV - Kilo-volt
mA - Micro-ampere
Ma - Million years ago
g/t - Gram per ton
g/cm^3 - Gram per cubic centimeter
cm/yr - Centimeter per year

Mineral Abbreviation

Ab - Albite
Cal - Calcite ($CaCO_3$)
Chl - Chlorite ($(Mg, Fe)_3(Si, Al)_4O_{10}(OH)_2(Mg, Fe)_3(OH)_6$)
S/C - mixed-layer Smectite-Chlorite mineral
Ha - Halloysite ($Al_2Si_2O_5(OH_4)2H_2O$)
Hbl - Hornblende ($(Ca, Na)_{2-3}(Mg, Fe, Al)_5Si_6(Si, Al)_2O_{22}(OH)_2$)
Kln - Kaolinite ($Al_2Si_2O_5(OH)_4$)
Lmt - Laumontite ($Ca(Al_2Si_4O_{12})4H_2O$)

Pl - Plagioclase (Albite, $NaAlSi_3O_8$)and (Anorthite, $CaAl_2Si_2O_8$)

Prl - Pyrophyllite ($Al_2Si_4O_{10}(OH)_2$)

Py - Pyrite (FeS_2)

Px - Pyroxene

Qz - Quartz (SiO_2)

Sep - Sepiolite ($Mg_4(OH)_2Si_6O_{15}H_2O+4H_2O$)

Ser - Sericite (($KAl_2(AlSi_3O_{10})(OH)_2$)

Sme - Smectite (Montmorillonite, $Na_{0.3}Al_2(Si, Al)_4O_{10}(OH)_2nH_2O$) and (Saponite, $(Mg, Ca)_{0.16}(Mg, Fe)_3(Al, Si)_4O_{10}(OH)_2$)

St - Stillbite ($CaAl_2Si_7O_{18}7H_2O$)

Ta - Talc ($Mg_3Si_4O_{10}(OH)_2$