APPENDIX 2 Correlation of elements with mineral content, as imaged by Pearson r^2 values, systems with $r^2 < 0.30$ are not listed

	quartz	illite	chlorite group	K feldspar	plagioclase	hematite	goethite	gypsum
Al		.78¹			.61			
As							<u>.76</u>	
Ва	<u>.71</u> ²							
Ca				<u>.59</u>				
Cu					.53			
Co	<u>.59</u>	.56					<u>.87</u>	
Cr	<u>.66</u>	.54						
Fe		.75			.61	.74		
K		.86			.60			
Mg		.78			.63			
Mn		.65			.51			
Na			.93	<u>.58</u>	.80	.96	<u>.93</u>	
Nb	<u>.50</u>	.69			.51			
Ni	<u>.67</u>	.55						
Р	<u>.61</u>						<u>.85</u>	
Sb	<u>.79</u>	<u>.80</u>	<u>.66</u>					
Sc		.64						
Sr	<u>.61</u>	.46					<u>.89</u>	
Th		.59			.51			
Ti		.71						
V		.61						
Υ		.56			.51			
Zn	<u>.94</u>					<u>.67</u>		
С								.55
Н			<u>.71</u>		<u>.65</u>			
N		<u>.63</u>	<u>.67</u>		<u>.80</u>			
S³								.96

 $^{^{1}}$ – values of $r^{2} \ge 0.75$ are given in bold; 2 – negative trends are underlined; 3 – ICP basis