		Sample as r	Sample from densimetric separation (heavy fraction)										
Sample No.	Chemical analysis		Mineralogical analysis				Chemical analysis		Mineralogical analysis				
			Predominant	Major	Minor	Lesser	Chemical analysis		Predominant	Major	Minor	Lesser	
	Compound	(wt. %)	(> 30%)	(> 10%)	(> 5%)	(> 3%)	Compound	(wt. %)	(> 30%)	(> 10%)	(> 5%)	(> 3%)	
	SiO ₂	38.19	Quartz	Albite Goethite Microcline Muscovite	Fluor- apatite Gibbsite Goethite Hematite	Kaolinite Dolomite							
	Fe ₂ O ₃	31.89											
	Al ₂ O ₃	19.84											
	K₂O	2.98					NOT AVAILABLE*						
l - 1	CaO	2.60											
E-1	P ₂ O ₅	2.50											
	TiO ₂	0.70											
	SO₃	0.66											
	MnO	0.37											
	BaO	0.27											

			Sample as r	eceived		Sample from densimetric separation (heavy fraction)						
	Chemical analysis		Mineralogical analysis				Chemical analysis		Mineralogical analysis			
Sample			Predominant	Major	Minor	Lesser	Onemical allalysis		Predominant	Major	Minor	Lesser
No.	Compound	(wt. %)	(> 30%)	(> 10%)	(> 5%)	(> 3%)	Compound	(wt. %)	(> 30%)	(> 10%)	(> 5%)	(> 3%)
	SiO ₂	25.93	Hematite Microcline Quartz	Fluor- apatite Goethite	Albite Gibbsite	Kaolinite Dolomite Muscovite	SiO ₂	18.66	- Quartz	Hematite	Fluor- apatite Goethite Microcline	Albite Kaolinite Dolomite Gibbsite Muscovite
E-2	Fe ₂ O ₃	53.00					Fe ₂ O ₃	54.28				
	Al ₂ O ₃	10.70					Al ₂ O ₃	9.41				
	K₂O	2.32					K₂O	1.06				
	CaO	3.45					CaO	8.22				
	P ₂ O ₅	3.60					P ₂ O ₅	8.29				
	TiO ₂	0.33					TiO ₂	0.89				
	SO ₃	0.73					SO₃	0.69				
	MnO	0.07					MnO	0.19				
	BaO	0.01					BaO	0.05				

		Sample as received							Sample from densimetric separation (heavy fraction)						
	Chemical analysis		M	analysis		Chemical analysis		Mineralogical analysis							
Sample			Predominant	Major	Minor	Lesser	Onemical analysis		Predominant	Major	Minor	Lesser			
No.	Compound	(wt. %)	(> 30%)	(> 10%)	(> 5%)	(> 3%)	Compound	(wt. %)	(> 30%)	(> 10%)	(> 5%)	(> 3%)			
E-3	SiO ₂	26.00	Goethite Quartz	Fluor- apatite Hematite Microcline	Albite	Kaolinite Dolomite Gibbsite Muscovite	SiO ₂	17,67	Goethite Quartz	Fluor- apatite Hematite Microcline	Gibbsite	Albite Kaolinite Diopside Dolomite Muscovite			
	Fe ₂ O ₃	45.00					Fe ₂ O ₃	54,83							
	Al ₂ O ₃	13.70					Al ₂ O ₃	10,95							
	K₂O	1.24					K₂O	0,92							
	CaO	6.50					CaO	7,84							
	P ₂ O ₅	5.90					P ₂ O ₅	7,61							
	TiO ₂	0.70					TiO ₂	1,09							
	SO ₃	0.57					SO ₃	0,42							
	MnO	0.24					MnO	0,23							
	BaO	0.10					BaO	< 0.01							

*- mass of heavy fraction from densimetric separation did not enable chemical and mineralogical analyses to be done

Table 1 – Chemistry and mineralogy of original samples and heavy fraction.