

Figure 3. Mineral composition of the sediments

Station	Latitude, N	Longitude, E	Sieve, mm	Output of the heavy subfraction, %	Heavy subfraction, %															Light subfraction, %							
					Black Ore	Leucoxene	Amphibole	Garnet	Epidote-zoisite	Zircon	Pyroxene	Tourmaline	Rutile	Brookite	Grothite	Disthene	Apatite	Glauconite	Sulphides	Carbonate	Sum, %	Quartz	Feldspar	Carbonate cristal	Mica	Glauconite	Sum, %
1_10	54.53	19.73	0.063	19.2	51.2	5.8	6.6	12.0	7.9	7.9	1.2	0.4	2.9	0.8	1.2		0.8	1.2			99.9	88.7	7.4	1.1		2.8	100.0
2_5	54.58	19.81	0.063	18.4	48.0	5.4	15.5	10.5	3.5	7.4	1.2	1.2	3.9	0.7	1.2	1.6					100.1	88.8	6.8			4.3	99.9
2_10	54.58	19.80	0.063	10.7	54.1	3.3	10.4	16.3	7.8	3.7		0.4	1.9		0.7	0.4		1.1			100.1	88.0	6.2			5.8	100.0
3_5	54.63	19.87	0.063	12.8	38.0	5.2	12.4	16.4	8.0	2.0	2.0	0.8	5.6	0.8	1.6	2.4	0.4				100.0	88.6	6.5	0.8		4.2	100.1
3_15	54.64	19.84	0.063	6.6	49.7	6.1	8.4	12.8	10.1	4.5	0.8	0.8	2.2	0.6	2.0	0.6	1.4				100.0	87.7	6.3	0.6		5.4	100.0
5_5	54.73	19.94	0.063	0.6	40.2	7.1	10.3	12.2	5.8	3.2	1.3	0.7	2.6	0.6	2.6	1.0			12.5		100.1	81.2	8.6	2.4		7.8	100.0
5_10	54.73	19.93	0.063	4.8	44.8	5.5	11.4	15.3	8.4	3.2	1.6	0.6	3.2		2.3	1.0	0.6	1.9	0.6		99.8	84.3	8.5	1.7		5.4	99.9
5_15	54.74	19.92	0.063	2.6	62.1	5.0	8.6	8.1	7.5	2.5		0.6	1.9	0.6	1.9	0.6		0.6			100.0	86.3	8.0	1.5		4.2	100.0
6_0	54.82	19.96	0.063	4.6	49.4	3.7	8.8	8.0	4.8	6.5	0.8	0.6	3.1		2.6	0.6		2.6	4.5	4.0	100.0	79.8	8.3	6		6.0	100.1
7_0	54.90	19.93	0.18	1.1	40.2	2.0	13.8	3.3	1.6	0.8	3.3					2.4		26.4	6.1		99.9	83.8	8.9	1.2		6.1	100.0
7_10	54.90	19.92	0.063	5.5	54.9	4.1	10.7	10.9	7.9	5.5	0.3	0.8	2.2	0.3	0.5	0.8		1.1			100.0	83.9	6.7			9.4	100.0
9_5	54.95	20.04	0.063	35.9	45.7	2.8	5.7	11.7	5.4	11.7		0.9	2.8		4.1	0.6		2.5		6.0	99.9	79.3	9.3	1.4		10.0	100.0
10_10	54.96	20.21	0.063	9.7	39.1	6.3	13.5	14.1	6.8	9.3	1.0	1.0	3.6		1.0	1.0	0.5	1.0	1.6		99.8	78.2	10.2	2.0		9.6	100.0
11_0	54.96	20.24	0.125	1.1	5.5		27.6	11.0	15.0		3.1		0.8			2.4		18.9	15.7		100.0	83.6	5.7	0.8		9.9	100.0
11_10	54.96	20.24	0.063	12.7	44.6	4.3	14.1	14.5	8.0	5.1	1.1	1.1	2.5		1.8		0.7	1.4	0.7		99.9	76.6	9.6	1.8		12.0	100.0
11_15	54.97	20.24	0.063	3.4	42.1	3.1	10.1	19.7	7.0	7.0	1.3	0.9	3.5	0.9	2.6		0.9	0.9			100.0	78.4	9.8	1.6		10.1	99.9
12_5	54.94	20.39	0.063	2.8	42.9	4.2	15.1	15.1	11.3	3.8	1.3	0.4	3.8			0.8	0.4	0.4	0.4		99.9	83.9	8.9	1.6		5.5	99.9
12_10	54.95	20.39	0.063	3.3	40.0	7.3	15.1	15.5	8.2	2.6	2.2	0.9	3.9	0.9	0.9	0.9	0.4	1.3			100.1	85.9	8.1	1.2		4.8	100.0
12_15	54.96	20.38	0.063	0.5	55.1	7.8	8.0	9.1	8.3	3.7	0.5	0.3	1.3		0.8		0.3	1.3	1.9	1.6	100.0	83.2	7.6	0.8		8.4	100.0
13_5	54.97	20.49	0.063	12.4	51.8	4.0	11.9	18.5	5.6	3.3	1.3	0.7	1.3	0.3		0.6	0.7				100.0	81.5	7.7	2.8		7.9	99.9
14_5	55.03	20.63	0.063	36.6	50.2	2.8	6.6	11.5	5.9	11.5	0.7	0.7	4.2		4.2	0.7	0.4	0.7			100.1	82.6	9.3	0.9		7.2	100.0
14_10	55.04	20.62	0.125	4.6	42.6	4.5	8.3	13.1	12.5	1.3	1.3	0.3	0.6			0.6		7.4	8.0		99.8	81.5	8.3			10.2	100.0
14_15	55.04	20.61	0.063	49.6	45.2	2.0	7.9	11.8	5.0	16.1	0.7	0.7	2.6	0.7	5.0	0.7	1.0	0.7			100.1	81.1	10.6	1.3		7.1	100.1
15_10	55.10	20.72	0.063	14.9	43.3	4.7	13.7	16.2	6.5	4.7	1.1	1.1	4.7	0.7	1.2	1.1	0.4	0.7			100.1	80.6	9.2	2.1		8.1	100.0
15_15	55.10	20.71	0.063	8.8	31.3	5.8	18.3	12.5	8.2	5.8	1.4	1.0	4.3	1.4	2.4	1.0	1.4	2.9	2.4		100.1	78.2	11.9	4.3		5.6	100.0
16_10	55.18	20.83	0.063	29.5	47.5	5.0	8.7	16.6	6.6	5.8	1.2	0.8	2.9	1.2	1.2	0.8	0.8	0.8			99.9	81.1	10.6	3.7		4.6	100.0
AHC-37005	55.13	20.20	0.063	11.9	42.5	5.5	11.4	16.3	8.0	5.2	1.2	0.9	2.5	0.9	2.2	0.9	0.3				100.0	83.9	8.4	1.1		6.6	100.0

Selective comparison of the content of glauconite in the bulk sample and in fractions

Station	Latitude, N	Longitude, E	Sieve, mm	Output of the heavy subfraction, %	Heavy subfraction, %															Light subfraction, %					
					Black Ore	Leucoxene	Amphibole	Garnet	Epidote- zoisite	Zircon	Pyroxene	Tourmaline	Rutile	Brookite	Grothite	Disthene	Apatite	Glauconite	Sum, %	Quartz	Feldspar	Carbonate cristal.	Mica	Glauconite	Sum, %
1_0	54.53	19.74	0,18		35.8		14.8	6.2	5.6		2.5	1.2				1.2		32.7	100.0	91.6	4.4			4.0	100.0
1_5	54.53	19.74	0,063		35.4	7.2	14.8	14.1	8.2	7.9	1.3	0.6	6.9	1.0	1.0	1.6			100.0	86.4	7.5	0.9	0.6	4.6	100.0
1_15	54.54	19.72	0,355	1.19	55.7		2.2	5.4			1.1							35.7	100.1	93.6	4.3			2.1	100.0
3_10	54.64	19.85	0,063		46.8	5.8	9.7	17.5	5.6	5.0	1.7		3.6	0.6	0.8	1.4	0.6		99.9	87.7	7.0	1.3		4.0	100.0
4_10	54.66	19.87	0,063		35.5	8.0	14.1	18.8	10.9	6.5	1.1	0.4	2.9	0.4	0.7	0.7			100.0	81.9	7.2	1.6	0.5	8.8	100.0
4_15	54.67	19.86	0,063		52.4	5.1	6.2	17.3	6.5	5.9	0.8	0.8	2.5	0.6		1.1			99.8	87.3	7.2	0.8	0.6	4.1	100.0
6_15	54.81	19.93	0,18		14.8		1.7	3.4	0.8									79.2	99.9	63.8	3.5			32.8	100.1
1_0	54.53	19.74	Gross	0.53	32.5		16.6	10.9	7.6	1.7	2.5		2.5			0.8		25.0	100.1	91.6	5.9			2.5	100.0
1_5	54.53	19.74	Gross	1.72	38.2	6.7	12.6	16.1	9.1	8.3	1.2	0.4	3.9	0.4	1.6	1.6			100.1	87.2	8.3	1.1		3.4	100.0
1_15	54.54	19.72	Gross	1.32	32.0		12.4	18.6	3.1									34.0	100.1	94.1	4.3			1.6	100.0
2_0	54.64	19.85	Gross	0.44	32.9	4.4	15.8	16.5	3.2	0.6	2.5	0.6	0.6	0.6		1.3		20.9	99.9	92.8	6.1			1.1	100.0
3_10	54.66	19.87	Gross	1.97	56.2	4.9	6.5	11.4	7.0	7.6	2.2	0.5	2.4		1.1	0.8			100.0	86.1	6.3	1.0	0.7	6.0	100.1
4_10	54.67	19.86	Gross	1.36	41.9	6.4	10.1	17.2	9.7	7.5	1.1	0.4	1.9	1.5		1.1			99.9	85.1	6.4	0.7		7.8	100.0
4_15	54.81	19.93	Gross	1.63	51.1	7.1	5.2	15.5	7.1	9.4	0.6	0.3	2.3	0.3		0.6			99.8	86.6	5.5	1.3	0.4	6.0	99.8
6_15	54.53	19.74	Gross	4.06	10.1		1.4	2.9										85.5	99.9	75.0	3.2			21.8	100.0