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3 **Table 1.** Description of Sediment Core B profile.

Core No.	Sample No.	Thickness (cm)	Depth (m)	Sand (%)	Silt (%)	Mud (%)	Description
A	1	10	1m	6	4	90	Sandy Mud ; brownish grey, root plants, with scattered multi-sized gravels and pebbles from limestone, chert, and calcareous shale.
A	2	15		6	4	90	
A	3	15		7	4	89	
A	4	15		7	4	89	
A	5	15		6	4	90	
A	6	15		5	5	90	
A	7	15	2m	5	5	90	
A	8	100		8	2	90	
A	9	20	3m	8	2	90	
A	10	15		9	2	89	
A	11	15		9	3	88	
A	12	15		10	3	87	
A	13	15		30	25	45	Silty Sandy Mud ; multi-sized pebble and gravel grains, reddish colored, pelecypod shells. Unconformity or flooding ***Handmade materials.***
A	14	20	4 m	8	4	88	Sandy Mud ; dark grey, silty in parts with scattered pebbles and gravels.
A	15	15		8	4	88	
A	16	15		8	4	88	
A	17	15		8	3	89	
A	18	15		7	3	90	
A	19	10		7	3	90	
A	20	15		7	3	90	
A	21	15		7	4	89	
A	22	10	5 m	7	3	90	
A	23	15		5	2	93	
A	24	15		5	2	93	
A	25	20		5	0	95	
A	26	20		5	0	95	
A	27	20	6 m	5	0	95	
A	28	15		6	2	92	
A	29	15		6	2	92	
A	30	20		6	1	93	
A	31	20		8	3	89	
A	32	20		8	3	89	
A	33	10	7 m	-	-	-	Silty Sandy Mud ; multi-sized pebble and gravel grains, reddish colored, pelecypod shells. Unconformity or flooding. ***Handmade materials.***
A	34	20		7	4	89	Sandy Mud ; black, silty in parts with scattered pebbles and gravels.
A	35	20		7	4	89	
A	36	20		6	4	90	
A	37	20		6	4	90	
A	38	20		6	4	90	
A	39	15		4	0	96	
A	40	10		5	1	94	
A	41	20		5	1	94	
A	42	15	8 m	5	1	94	Sandy Silt ; yellowish brown, muddy, with scattered pebbles and gravels.
A	43	20		10	85	5	
A	44	20		10	85	5	
A	45	20	9 m	10	88	2	
A	46	15		13	85	2	
A	47	20		15	83	2	
A	48	20		15	80	5	
A	49	10		82	12	6	Silty Sand : very fine to medium-grained, muddy, brownish yellow, well sorted.
A	50	15	10 m	77	14	9	
A	51	100		65	30	5	
A	52	100	11 m	60	32	8	
A	53	100	12 m	75	15	10	
A	54	100	13 m	80	17	3	
A	55	50		85	12	3	

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6 **Table 2.** Description of Sediment Core B profile.

Core No.	Sample No.	Thickness (cm)	Depth (m)	Sand (%)	Silt (%)	Mud (%)	Description
B	1	10	1 m	8	3	89	Sandy Mud; brownish grey, root plants, calcareous, with scattered multi-sized gravels and pebbles from limestone, chert, and calcareous shale.
B	2	15		8	4	88	
B	3	15		7	3	90	
B	4	15		6	4	90	
B	5	15		7	4	89	
B	6	15		6	3	91	
B	7	15		7	2	91	
B	8	15	2 m	6	4	89	
B	9	15		8	3	89	
B	10	20		8	2	90	
B	11	15		8	22	67	
B	12	15		16	29	55	Silty Mud; dark brown, sandy in parts.
B	13	20		6	25	69	
B	14	25		9	31	60	
B	15	15	3 m	32	22	46	Silty Sandy Mud; multi-sized pebble and gravel grains, reddish colored, pelecypod shells. Unconformity or flooding ***Handmade materials.***
B	16	20		15	9	76	Sandy Mud; dark grey, silty in parts
B	17	40		94	4	2	Silty Sand; very fine to medium-sized, brownish yellow, muddy in parts.
B	18	20	4 m	20	8	72	Sandy Mud; dark grey, silty in parts with scattered pebbles and gravels.
B	19	20		18	7	75	
B	20	20		21	9	70	Silty Sand; very fine to medium-sized, brownish yellow, muddy in parts.
B	21	10		90	8	2	
B	22	15		20	8	72	Sandy Mud; dark grey, silty in parts with scattered pebbles and gravels.
B	23	15		22	8	70	
B	24	10	5 m	34	17	49	Silty Sandy Mud; multi-sized pebble and gravel grains, reddish colored, pelecypod shells. Unconformity or flooding ***Handmade materials.***
B	25	25		22	5	73	Sandy Mud; black, silty in parts with scattered pebbles and gravels.
B	26	25		20	4	76	
B	27	25		20	5	75	
B	28	15		32	26	42	Silty Sandy Mud; multi-sized pebble and gravel grains, reddish colored, pelecypod shells. Unconformity or flooding ***Handmade materials.***
B	29	100	6 m	95	3	2	Sand: fine to medium-grained, silty and or muddy brownish yellow, well sorted.
B	30	100	7 m	92	5	3	
B	31	100	8 m	90	6	4	
B	32	100	9 m	90	6	4	
B	33	100	10 m	89	6	5	
B	34	100	11 m	95	3	2	
B	35	100	12 m	88	9	2	
B	36	100	13 m	88	9	2	
B	37	100	14 m	89	8	2	
B	38	100	15 m	92	3	4	
B	39	100	16 m	95	3	2	
B	40	100	17 m	89	7	4	
B	41	100	18 m	89	7	4	
B	42	100	19 m	95	3	2	
B	43	100	20 m	96	3	3	

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Table 3. The ground elevation of 31 pyramids and their proximity to the Nile Floodplain. This data explains the position of the Ahramat Branch during the time between the Old Kingdom and Second Intermediate Period.

Num	Pyramid	Dynasty	Kingdom	Elevation (m)	Distance (m)
1	Step Pyramid	3th	Old Kingdom	32.80	800
2	The Bent Pyramid	4th	Old Kingdom	42.70	878
3	The Red Pyramid	4th	Old Kingdom	42.50	920
4	Unfinished Northern Pyramid	4th	Old Kingdom	35.70	570
5	Pyramid of Khufo	4th	Old Kingdom	52.00	500
6	Pyramid of Khafre	4th	Old Kingdom	68.70	747
7	Pyramid of Menkaure	4th	Old Kingdom	59.60	550
8	Shepseskaf Mastaba	5th	Old Kingdom	30.50	832
9	Pyramid of Userkaf	5th	Old Kingdom	19.80	350
10	Pyramid of Sahure	5th	Old Kingdom	20.30	300
11	Pyramid of Neferirkare	5th	Old Kingdom	25.90	265
12	Pyramid of Neferefre	5th	Old Kingdom	22.00	460
13	Pyramid of Nyuserre	5th	Old Kingdom	24.00	322
14	Pyramid of Djedkare Isesi	5th	Old Kingdom	23.60	289
15	Headless Pyramid	5th	Old Kingdom	14.00	175
16	Pyramid of Unas	5th	Old Kingdom	26.00	548
17	Pyramid of Teti	6th	Old Kingdom	34.90	330
18	Pyramid of Pepi I	6th	Old Kingdom	28.30	354
19	Pyramid of Merenre	6th	Old Kingdom	25.50	299
20	Pyramid of Pepi II	6th	Old Kingdom	30.80	600
21	Qakare Ibi	8th	First Intermediate	17.40	215
22	Pyramid of Amennemhat I	12th	Middle Kingdom	15.50	339
23	Pyramid of senusret I	12th	Middle Kingdom	20.10	275
24	White Pyramid	12th	Middle Kingdom	18.50	253
25	Pyramid of Senusret III	12th	Middle Kingdom	22.50	232
26	Pyramid of Amenemhat III	12th	Middle Kingdom	10.80	250
27	Mazghoma Pyramid	12th	Middle Kingdom	20.70	242
28	Southern Mazghoma Pyramid	12th	Middle Kingdom	5.60	253
29	Saqqara South 3 Pyramid	13th	Second Intermediate	10.00	113
30	Pyramid of Khendjer	13th	Second Intermediate	9.00	150
31	Southern South Saqqara Pyramid	13th	Second Intermediate	10.00	104