

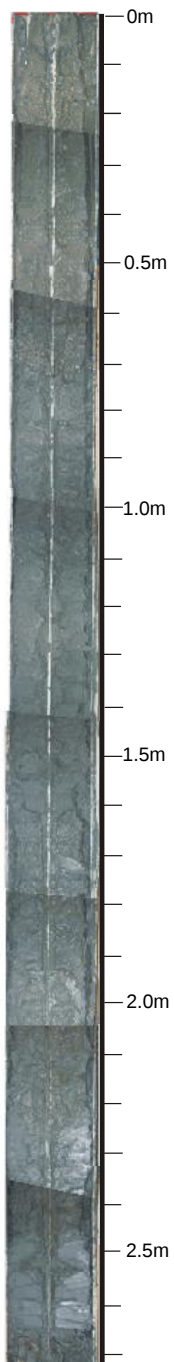
CORE 4A:

Core 4A was taken at a water depth of 5m (16.3ft) (Table 1) and had a total length of 280cm (110.2in) (Figures 23-26). A total of 16 grain size samples were taken at depths of 1-10cm (0.4-3.9in), 11-20cm (4.3-7.9in), 41-50cm (16.1-19.7in), 61-70cm (24-27.6in), 71-80cm (28-31.5in), 101-110cm (39.8-43.3in), 111-120cm (43.7-47.2in), 141-150cm (55.5-59.1in), 171-180cm (67.3-70.9in), 181-190cm (71.3-74.8in), 211-220cm (83-86.6in), 221-230cm (87-90.6in), 231-240cm (90.9-94.5in), 241-250cm (94.9-98.4in), 251-260cm (98.8-102.4in) and 271-280cm(106.7-110.2in). From the top of the core to a depth of 220cm (86.6in), percent sand remained above 79% and had a mean grain size between 0.116mm (3.1phi) and 0.094mm (3.4phi). From 220cm (86.6in) to 230cm (90.6in) percent sand decreased from 89 to 39%. From 230cm (90.6in) to the bottom of the core, percent sand ranged from 39 to 57% and mean grain size was less than 0.0799mm (3.6 phi).

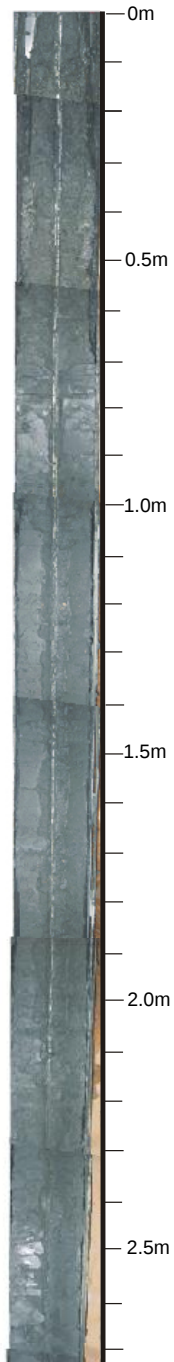
Sand and shell weights are shown in Table 17. Percent sand, silt and clay are shown in Table 18. Median grain size, mean grain size, skewness and sorting index are shown in Table 21. Graphs of the results are located in Figures 27-30.

It was determined that core 4A had approximately 225cm (88.5in) of sediment contained at least 50% sand, of which 100cm (39.4in) was located shallower than 1m (39.4in) depth.

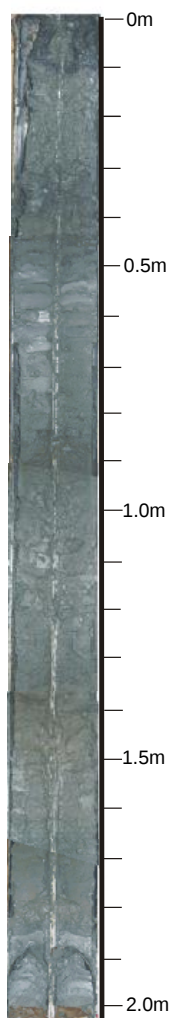
4A



4B



4C



Core#: 4a
Core Date: 07/09/2005

Date Split/subsampled: 08/19/05
Length: 280 cm
Lat: 21 17.252
Long: 94 46.71

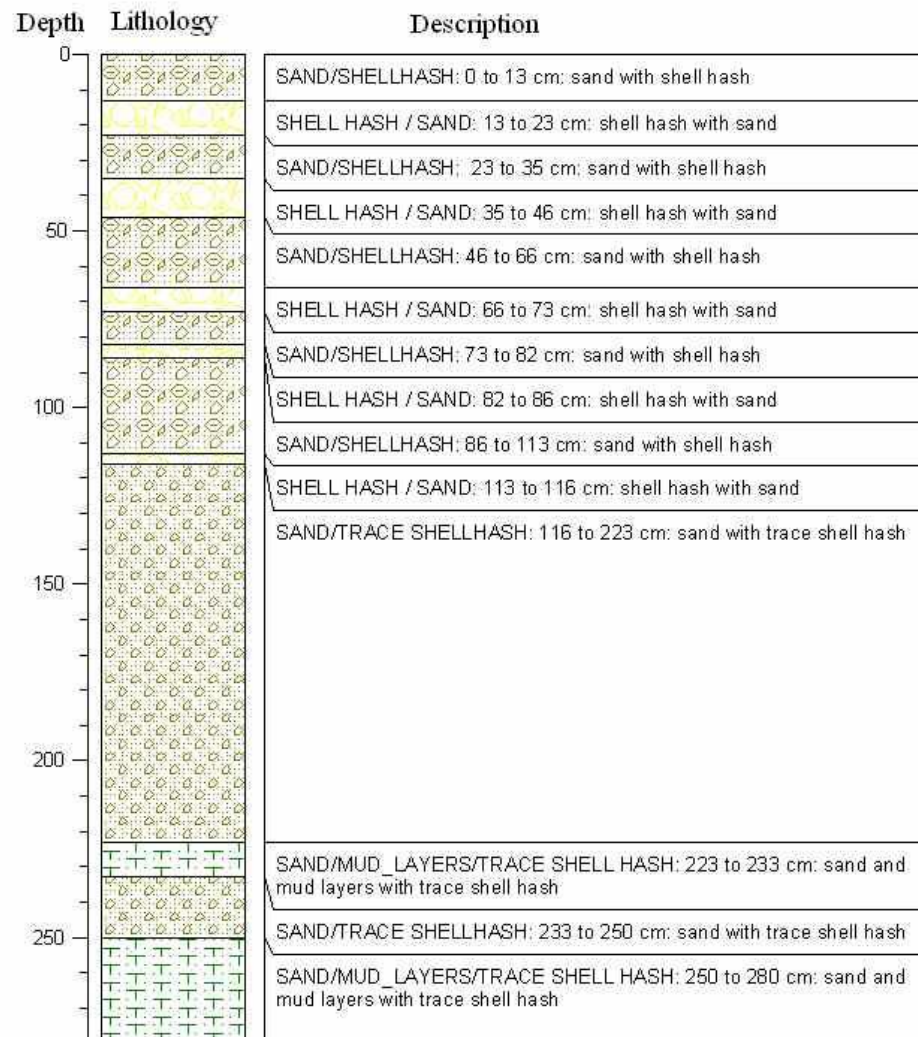
Core#: 4a
Core Date: 07/09/2005

Date Split/subsampled: 08/19/2005
Length: 280 cm
Lat: 21 17.252
Long: 94 46.71

Centi-Meters	Munsell Soil Color	Depths Sampled	Description:
0-10	0-223 5Y 4/1	GS 1-10cm	0-13 → SAND w/ SHELL HASH
10-20		11-20cm	13-23 → SHELL HASH w/ SAND
20-30	223-233	41-50cm	23-35 → SAND w/ SHELL HASH
30-40	6LEY 14/N	61-70cm	35-46 → SHELL HASH w/ SAND
40-50		71-80cm	46-66 → SAND w/ SHELL HASH
50-60	233-250	101-110cm	66-73 → SHELL HASH w/ SAND
60-70	5Y 3/1	111-120cm	73-82 → SAND w/ SHELL HASH
70-80		141-150cm	82-86 → SHELL HASH w/ SAND
80-90	250-280	171-180cm	86-113 → SAND w/ SHELL HASH
90-100	6LEY 14/N	181-190cm	113-116 → SHELL HASH w/ SAND
100-110		211-220cm	116-223 → SAND w/ TRACE SHELL
110-120		221-230cm	223-233 → ALTERNATING SAND & MUD LAYERS, 1 TO 2 cm THICK
120-130		231-240cm	TRACE SHELL
130-140		241-250cm	233-250 → SAND w/ TRACE SHELL
140-150		251-260cm	250-280 → ALTERNATING SAND & MUD LAYERS, 1 TO 2 cm THICK, TRACE SHELL HASH
150-160		271-280cm	
160-170			
170-180			
180-190			
190-200			
200-210			
210-220			
220-230			
230-240			
240-250			
250-260			
260-270			
270-280			

Centi-Meters	Munsell Soil Color	Depths Sampled	Description:
0-10		210-211cm	
10-20		220-231cm	
20-30		230-231cm	
30-40		240-241cm	
40-50		250-251cm	
50-60		260-261cm	
60-70		270-271	
70-80			
80-90			
90-100			
100-110			
110-120			
120-130			
130-140			
140-150			
150-160			
160-170			
170-180			
180-190			
190-200			
200-210			
210-220			
220-230			
230-240			
240-250			
250-260			
260-270			
270-280			

Line 4 Site A



Core ID	Sample Depth (cm)	shell weight (g)	200+ weight (g)	200-230 weight (g)	overall sand weight (g)
4A	1-10	5.15	110.39	3.58	110.39
4A	11-20	10.53	88.14	2.35	88.14
4A	41-50	3.32	91.21	3.21	91.21
4A	61-70	13.92	84.62	2.72	84.62
4A	71-80	4.07	83.45	4.62	83.45
4A	101-110	1.40	91.20	4.70	91.20
4A	111-120	1.91	88.80	3.37	88.80
4A	141-150	0.34	83.53	5.42	83.53
4A	171-180	0.72	78.41	6.85	78.41
4A	181-190	0.78	89.85	3.93	89.85
4A	211-220	0.35	93.48	2.55	93.48
4A	221-230	0.02	22.68	2.64	22.68
4A	231-240	0.33	43.83	10.80	43.83
4A	241-250	0.46	40.33	15.30	40.33
4A	251-260	0.10	20.81	5.41	20.81
4A	271-280	0.10	22.58	3.62	22.58

Table 1: Shell and Sand weights for core 4A

Core ID	Sample Depth (cm)	% shell	% sand	%silt	%clay
4A	1-10	4.12	88.29	4.38	3.21
4A	11-20	9.91	82.94	3.66	3.50
4A	41-50	3.09	84.88	5.72	6.31
4A	61-70	12.98	78.88	4.63	3.51
4A	71-80	4.08	83.75	7.69	4.47
4A	101-110	1.35	87.68	8.37	2.60
4A	111-120	1.92	89.45	5.90	2.72
4A	141-150	0.35	87.02	9.61	3.02
4A	171-180	0.74	80.65	15.30	3.31
4A	181-190	0.74	85.49	8.69	5.08
4A	211-220	0.33	89.12	6.37	4.18
4A	221-230	0.03	39.15	33.73	27.08
4A	231-240	0.43	57.01	33.11	9.44
4A	241-250	0.50	44.00	38.85	16.64
4A	251-260	0.16	34.03	38.27	27.54
4A	271-280	0.22	49.69	32.64	17.45

Table 2: Percent Shell, Sand, Silt and Clay for core 4A

Core ID	Sample Depth (cm)	N10/ 2.0mm Screen Sample Weight (g)	N14/ 1.40mm Screen Sample Weight (g)	N18/ 1.00mm Screen Sample Weight (g)	N25/ 710µm Screen Sample Weight (g)	N35/ 500µm Screen Sample Weight (g)	N45/ 355µm Screen Sample Weight (g)	N60/ 250µm Screen Sample Weight (g)	N80/ 180µm Screen Sample Weight (g)	N125/ 125µm Screen Sample Weight (g)	N170/ 90µm Screen Sample Weight (g)	N200/ 75µm Screen Sample Weight (g)	N230/ 63µm Screen Sample Weight (g)	CATCH Pan
4A	1-10	1.81	1.30	0.92	0.64	0.28	0.20	0.25	0.80	22.34	73.32	13.68	3.58	0.81
4A	11-20	4.23	2.49	1.74	1.15	0.61	0.31	0.40	0.74	24.83	55.73	6.44	2.35	0.79
4A	41-50	1.49	0.74	0.47	0.30	0.17	0.15	0.23	0.70	12.37	64.29	13.62	3.21	0.81
4A	61-70	5.73	3.65	2.08	1.34	0.73	0.39	0.60	0.92	18.71	57.12	7.27	2.72	0.77
4A	71-80	1.63	0.99	0.65	0.38	0.24	0.18	0.33	0.66	27.35	46.10	9.01	4.62	1.78
4A	101-110	0.43	0.36	0.20	0.18	0.12	0.11	0.33	0.75	20.04	60.52	9.56	4.70	1.82
4A	111-120	0.72	0.44	0.30	0.22	0.13	0.10	0.17	0.68	16.41	59.50	12.04	3.37	1.05
4A	141-150	0.08	0.09	0.06	0.02	0.03	0.06	0.08	0.40	13.43	54.60	15.02	5.42	1.96
4A	171-180	0.26	0.16	0.06	0.09	0.06	0.09	0.14	0.57	9.83	51.94	15.93	6.85	3.56
4A	181-190	0.21	0.17	0.11	0.08	0.10	0.11	0.22	0.74	68.60	17.61	2.68	3.93	3.44
4A	211-220	0.10	0.02	0.05	0.06	0.07	0.05	0.16	1.43	33.52	51.30	7.07	2.55	1.60
4A	221-230						0.02					22.68	2.64	1.33
4A	231-240	0.06	0.06	0.05	0.04	0.04	0.08	0.23	0.42	6.47	27.98	8.73	10.80	9.30
4A	241-250	0.05	0.12	0.11	0.06	0.05	0.07	0.07	0.32	5.38	22.97	11.59	15.30	9.70
4A	251-260						0.10					20.81	5.41	5.11
4A	271-280						0.10					22.58	3.62	1.86

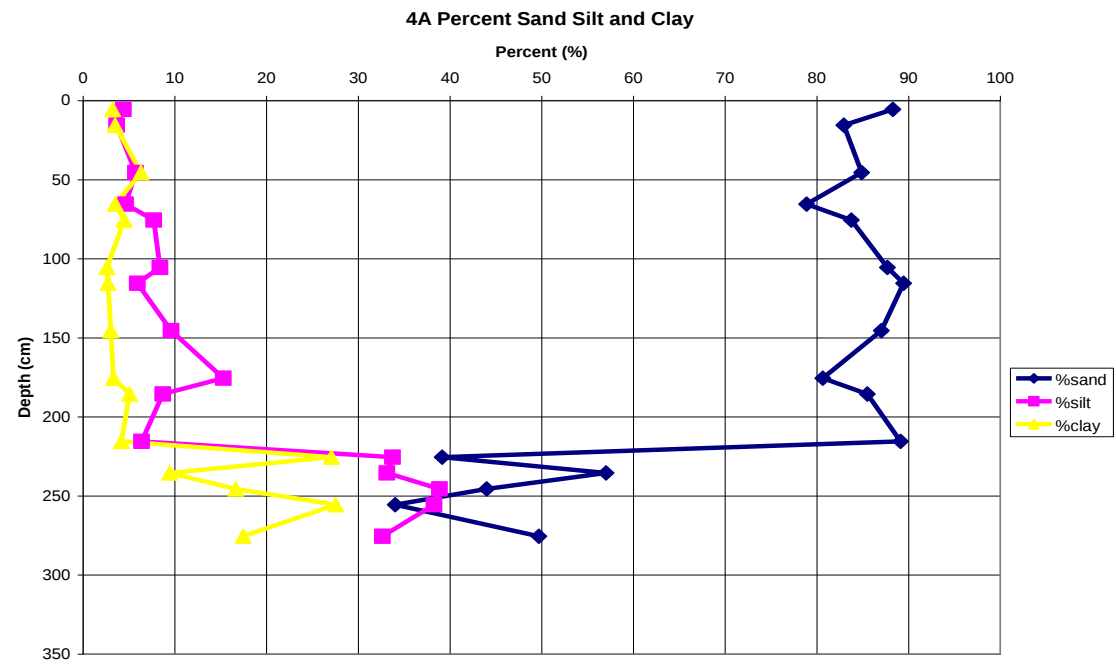
Table 3: RO-TAP data for core 4A

ASTM Classification		coarse sand	medium sand	medium sand	medium sand	medium sand	fine sand	fine sand	fine sand	fine sand	fine sand	fine sand	silt
Wentworth Classification		granule	very coarse sand	very coarse sand	coarse sand	coarse sand	medium sand	fine sand	fine sand	fine sand	very fine sand	very fine sand	very fine silt
Core ID	Sample Depth (cm)	% finer than N10/ 2.0mm/ -1.0Φ Screen	% finer than N14/ 1.40mm / -0.5Φ Screen	% finer than N18/ 1.00mm/ 0.0Φ Screen	% finer than N25/ 710µm / 0.5Φ Screen	% finer than N35/ 500µm/ 1.0Φ Screen	% finer than N45/ 355µm / 1.5Φ Screen	% finer than N60/ 250µm 2.0Φ Screen	% finer than N80/ 180µm/ 2.5 Φ Screen	% finer than N125/ 125µm/ 3.0Φ Screen	% finer than N170/ 90µm / 3.5Φ Screen	% finer than N200/ 75µm / 4.0Φ Screen	% finer than 4µm/ 8Φ
Observed Contents of the sample		shell only	shell only	shell only	shell only	shell only	shell only	shell only	sand	sand	sand	sand	silt
4A	1-10	98.6	97.5	96.8	96.3	96.0	95.9	95.7	95.0	77.2	18.5	7.6	3.2
4A	11-20	96.0	93.7	92.0	91.0	90.4	90.1	89.7	89.0	65.7	13.2	7.2	3.5
4A	41-50	98.6	97.9	97.5	97.2	97.1	96.9	96.7	96.0	84.5	24.7	12.0	6.3
4A	61-70	94.7	91.3	89.3	88.1	87.4	87.0	86.5	85.6	68.2	14.9	8.1	3.5
4A	71-80	98.4	97.4	96.7	96.3	96.1	95.9	95.6	94.9	67.5	21.2	12.2	4.5
4A	101-110	99.6	99.2	99.0	98.9	98.8	98.7	98.3	97.6	78.3	20.2	11.0	2.6
4A	111-120	99.3	98.8	98.5	98.3	98.2	98.1	97.9	97.2	80.7	20.8	8.6	2.7
4A	141-150	99.9	99.8	99.8	99.7	99.7	99.6	99.6	99.1	85.2	28.3	12.6	3.0
4A	171-180	99.7	99.6	99.5	99.4	99.4	99.3	99.1	98.5	88.4	35.0	18.6	3.3
4A	181-190	99.8	99.6	99.5	99.5	99.4	99.3	99.0	98.3	33.1	16.3	13.8	5.1
4A	211-220	99.9	99.9	99.8	99.8	99.7	99.7	99.5	98.2	66.2	17.3	10.5	4.2
4A	221-230						100.0					60.8	27.1
4A	231-240	99.9	99.8	99.8	99.7	99.7	99.6	99.3	98.7	90.3	53.9	42.6	9.4
4A	241-250	99.9	99.8	99.7	99.6	99.6	99.5	99.4	99.1	93.2	68.1	55.5	16.6
4A	251-260						99.8					65.8	27.5
4A	271-280						99.8					50.1	17.5

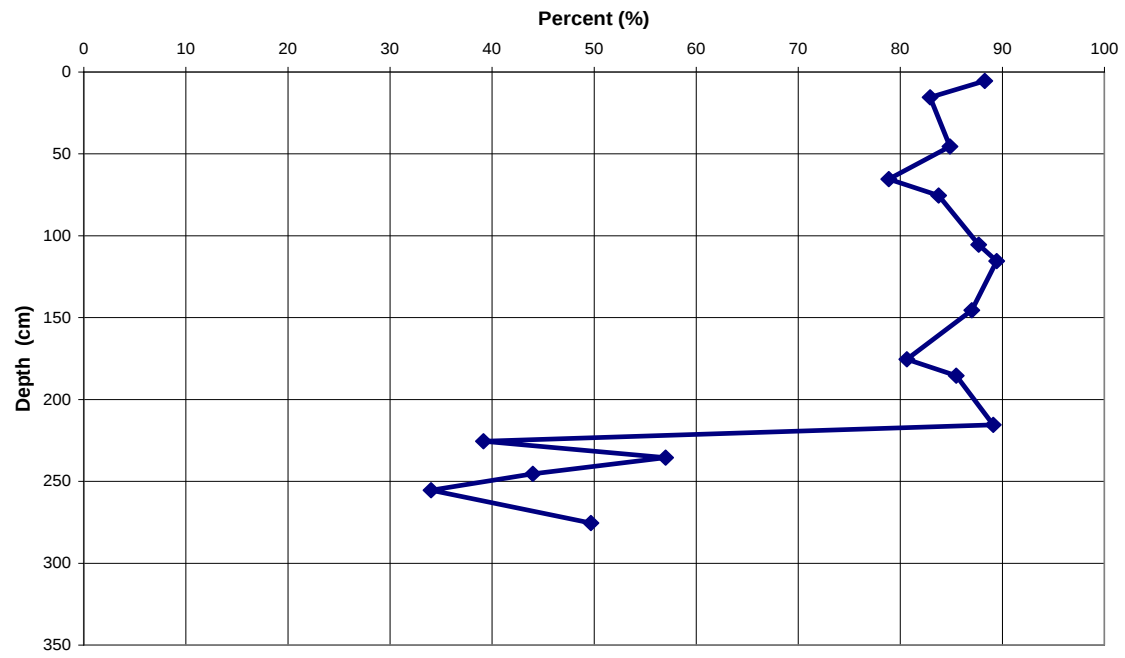
Table 4: Percent Finer table for core 4A

Core ID	Sample Depth	Median Grain Size	Median Grain Size	Mean Grain Size	Mean Grain Size	Skewness	Sorting Index
	(cm)	(phi)	(mm)	(phi)	(mm)		
4A	1-10	3.228	0.1062	3.2255	0.1064	0.0004	0.3754
4A	11-20	3.142	0.1128	3.1047	0.1157	-0.3978	0.9114
4A	41-50	3.285	0.1021	3.3079	0.1005	0.4956	1.4171
4A	61-70	3.167	0.1108	3.1061	0.1156	-0.4361	0.9771
4A	71-80	3.176	0.1101	3.1881	0.1092	0.1144	0.4617
4A	101-110	3.233	0.1059	3.2461	0.1049	0.1476	0.3692
4A	111-120	3.252	0.1045	3.2592	0.1040	0.1178	0.3468
4A	141-150	3.308	0.1005	3.3316	0.0989	0.1886	0.3637
4A	171-180	3.359	0.0970	3.4115	0.0935	0.2808	0.4176
4A	181-190	2.865	0.1367	3.0156	0.1231	0.7118	1.6691
4A	211-220	3.149	0.1122	3.1558	0.1117	0.2125	0.4627
4A	221-230						
4A	231-240	3.577	0.0834	3.6382	0.0799	0.5148	1.8733
4A	241-250	3.837	0.0696	6.5437	0.0106	0.8481	3.9498
4A	251-260						
4A	271-280						

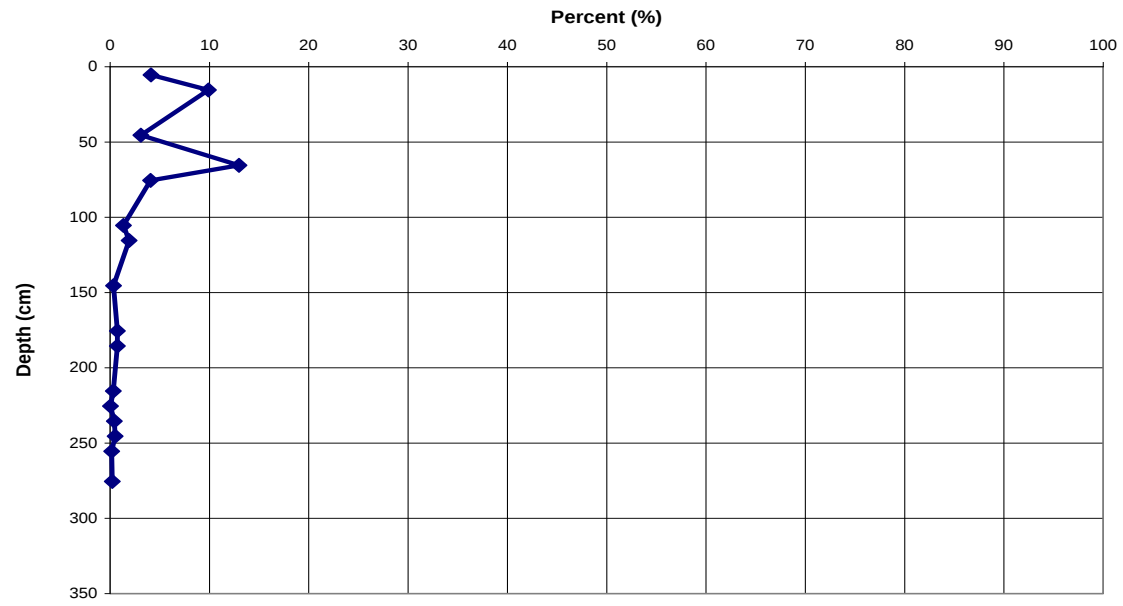
Table 5: Median grain size, Mean grain size, Skewness and Sorting Index for core 4A



4A Percent Sand



4A Percent Shell



4A Mean Grain Size

