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TABLE 4. Cumulative Weight Percent of Sample by Sieve Analysis - Fluvial Sands

Grain Size(ϕ)	Sample Number												
	F-1	F-2	F-3	F-4	F-5	F-6	F-7	F-8	F-9	F-10	F-11	F-13	F-15
-0.75	-	0.74	1.66	-	0.17	-	0.007	-	0.004	4.95	7.11	0.92	0.43
-0.50	-	1.44	3.07	-	0.29	0.002	0.05	-	0.014	8.88	13.37	2.23	0.88
-0.25	0.05	2.28	5.21	-	0.47	0.013	0.13	.004	0.03	14.10	22.33	4.84	1.72
0.0	0.13	2.87	6.50	0.13	0.62	0.05	0.24	.04	0.08	17.81	28.59	7.21	2.64
0.25	0.19	3.94	9.06	0.15	0.79	0.14	0.44	.05	0.20	23.90	38.04	11.85	3.48
0.50	0.26	4.70	10.83	0.21	1.01	0.32	0.70	.10	0.39	27.85	43.15	15.60	4.29
0.75	0.31	6.47	14.40	0.23	1.80	1.14	1.80	.44	1.25	35.43	51.44	24.46	8.65
1.00	0.61	7.89	17.15	0.27	2.72	2.37	3.83	1.22	3.17	40.50	56.03	32.13	12.41
1.25	0.81	10.65	21.33	0.33	5.44	5.76	10.53	5.72	9.07	46.73	61.08	42.87	18.05
1.50	0.95	15.68	27.12	0.35	13.39	13.27	30.20	22.82	25.76	54.46	66.88	56.71	26.46
1.75	1.40	26.58	34.40	0.38	36.72	38.02	62.70	54.53	52.10	62.39	73.11	69.90	36.91
2.00	2.88	51.49	40.97	0.63	63.97	60.99	81.60	79.37	72.93	68.61	77.96	78.18	46.01
2.25	7.01	80.41	47.83	1.49	80.83	78.24	91.55	93.52	87.45	74.41	82.28	84.19	54.90
2.50	16.97	94.05	56.51	5.70	90.67	91.18	96.74	98.40	95.79	81.25	87.17	89.40	65.67
2.75	35.12	98.08	66.18	17.17	96.38	97.87	98.82	99.29	98.70	88.02	91.61	93.42	76.49
3.00	51.65	99.19	73.96	31.19	98.45	99.69	99.45	99.53	99.44	92.28	94.41	95.65	83.69
3.25	68.54	99.67	82.05	49.95	99.44	99.85	99.78	99.68	99.74	95.80	96.59	97.48	90.02
3.50	79.73	99.82	88.06	65.80	99.72	99.95	99.90	99.78	99.86	97.72	98.05	98.32	93.86
3.75	91.51	99.92	94.98	85.65	99.90	99.98	99.97	99.90	99.93	99.10	99.16	99.40	97.50
4.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

TABLE 5. Cumulative Weight Percent of Sample by Settling Analysis -- Fluvial Sands

Grain Size(ϕ)	F-1	F-2	F-3	F-4	F-5	F-6	F-7	F-8	F-9	F-10	F-11	F-12	F-13	F-14	F-15
-0.2		0.10						0.78		6.85			2.26		
-0.1		3.41						0.97		8.70		0.30	4.62	0.27	
0		6.19						1.22		10.55	0.10	3.42	6.55	1.14	
0.1		7.62	0.50					1.49		12.39	2.39	9.02	8.39	3.10	
0.2		9.01	1.48					1.76		14.12	6.12	12.12	10.73	5.17	
0.3		9.37	2.89					2.02		15.80	9.58	15.00	13.12	11.86	
0.4		9.73	4.30					2.29		17.40	14.09	17.65	14.10	21.06	
0.5		10.09	6.08					2.55		18.80	18.06	19.94	15.07	25.03	0.008
0.6		10.45	8.24					2.82		20.21	22.41	22.95	16.05	29.26	0.80
0.7		10.81	10.22				0.02	3.08	0.50	21.84	27.17	25.91	17.05	32.45	2.33
0.8		11.18	12.10				0.62	3.35	0.64	23.76	33.24	28.01	19.04	37.24	4.39
0.9		11.54	13.80				0.91	3.62	0.78	25.69	37.06	29.90	21.05	41.04	6.01
1.0		11.90	15.33				1.60	3.88	0.93	27.67	41.54	31.61	25.16	44.23	7.44
1.1		12.26	16.86			0.14	2.47	4.15	1.55	29.64	44.09	33.44	27.99	48.08	8.87
1.2		12.62	18.52		0.50	0.76	3.34	4.41	2.74	31.60	46.89	35.84	31.90	52.77	10.96
1.3		12.98	20.18		1.07	1.65	4.21	4.68	3.93	34.05	50.01	38.36	36.73	58.03	13.24
1.4		14.32	22.11		2.35	2.91	5.33	4.95	5.33	37.63	54.96	40.98	41.48	61.93	17.23
1.5		15.72	24.30		3.62	4.16	8.81	7.46	8.81	40.82	57.83	44.02	46.55	66.71	19.61
1.6		17.19	26.38		4.90	6.13	14.76	11.72	13.02	43.99	60.73	47.96	51.43	71.91	22.12
1.7		19.43	28.42		7.74	9.92	27.03	19.43	21.01	47.19	63.71	51.23	57.32	75.70	25.81
1.8		22.34	30.65		12.43	16.77	39.53	31.37	31.04	50.87	66.90	54.31	63.57	80.05	29.15
1.9		27.12	32.97		18.94	25.44	51.52	44.02	42.19	54.35	70.06	56.92	68.85	83.61	33.46
2.0	0.13	35.30	35.65		28.99	36.43	62.99	56.34	52.01	57.22	73.24	59.43	73.06	87.28	37.80
2.1	0.45	47.57	38.16		41.27	46.56	72.28	67.66	62.70	59.97	76.07	62.18	76.71	89.97	41.61
2.2	1.63	61.36	40.49		52.78	56.59	79.53	76.83	71.94	62.72	78.74	64.51	79.86	92.31	45.43
2.3	3.21	75.25	43.19	0.24	62.26	65.96	84.60	85.66	79.34	65.50	80.37	66.66	82.28	94.44	49.72
2.4	4.80	87.28	46.13	0.71	69.69	73.85	88.47	91.60	85.13	68.40	82.13	68.89	84.71	95.30	53.64

TABLE 5 (continued)

2.5	7.92	91.23	49.25	1.68	75.90	79.67	91.26	95.13	89.47	71.25	83.84	71.15	87.08	95.72	57.49
2.6	11.67	94.75	51.97	3.23	79.96	84.03	93.28	96.52	92.38	72.88	85.51	73.50	88.32	96.13	61.31
2.7	16.44	95.97	54.88	4.77	83.29	87.70	95.16	97.91	94.70	74.51	87.19	75.79	89.56	96.54	64.66
2.8	21.82	97.01	58.04	7.51	85.85	90.31	96.03	99.06	95.60	79.23	88.94	78.01	90.81	96.95	67.84
2.9	27.73	98.05	60.96	10.97	88.20	92.62	96.90	99.33	96.30	81.65	90.69	80.84	91.94	97.36	71.37
3.0	34.10	99.04	63.86	15.31	90.37	94.84	97.77	99.65	96.99	83.89	91.93	81.93	93.16	97.98	74.22
3.1	40.96	99.46	67.02	20.49	92.01	95.87	98.64	100.00	97.69	85.91	93.06	83.79	94.32	98.18	76.82
3.2	47.04	99.62	69.25	27.08	93.44	96.80	99.24		98.38	87.77	94.18	85.63	95.21	98.60	79.25
3.3	53.74	99.74	72.78	33.37	94.86	97.74	99.60		99.01	89.44	95.22	87.36	95.71	99.01	82.01
3.4	61.27	99.87	76.08	40.60	95.68	98.67	99.81		99.11	91.08	96.00	88.78	96.21	99.26	84.19
3.5	68.76	99.99	79.39	49.89	96.41	99.21	100.00		99.22	92.36	96.78	90.21	96.71	99.51	86.08
3.6	75.61	100.00	82.56	58.00	97.14	99.52			99.33	93.63	97.56	91.68	97.21	99.71	88.35
3.7	80.63		85.84	65.73	97.88	99.76			99.43	94.90	98.34	93.20	97.71	99.92	90.97
3.8	84.77		89.11	72.93	98.62	100.00			100.00	95.67	99.08	94.73	98.21	100.00	92.61
3.9	87.64		91.82	79.56	99.21					96.40	99.55	95.77	98.71		94.24
4.0	89.28		93.78	83.53	99.59					97.13	99.85	96.70	99.14		95.70
4.1	90.92		95.52	87.22	99.81					97.86	100.00	97.63	99.47		97.01
4.2	94.98		96.91	90.56	100.00					98.59		98.56	99.82		98.31
4.3	96.45		98.29	92.93						99.17		99.25	100.00		100.00
4.4	98.14		99.68	95.16						99.58		99.73			
4.5	99.70		100.00	97.31						100.00		100.00			
4.6	100.00			99.31											
4.7				100.00											

TABLE 6. Cumulative Weight Percent of Sample by Sieve Analysis - Beach Foreshore Sands

Grain Size (ϕ)	B-1	B-2	B-4	B-5	B-6	B-7	B-8	B-9	B-10
-0.75	1.33	1.26	1.58		0.01		0.06	0.13	
-0.50	6.21	6.25	5.40		0.01	0.05	0.21	0.37	
-0.25	24.20	23.63	18.66		0.05	0.11	0.54	0.95	0.04
0.00	39.62	39.44	34.64		0.23	0.11	1.54	1.50	0.06
0.25	60.46	60.04	59.73	0.002	0.34	0.37	3.63	2.77	0.11
0.50	70.45	70.69	73.59	0.04	0.44	0.66	6.79	3.89	0.18
0.75	84.66	84.45	89.05	0.08	0.73	1.62	16.05	6.68	0.41
1.00	90.86	91.15	94.32	0.24	1.08	2.74	23.38	8.71	0.70
1.25	96.70	96.87	97.83	0.87	2.16	6.56	36.77	12.97	1.83
1.50	98.70	99.01	99.15	3.12	4.35	13.70	52.39	20.01	3.60
1.75	99.39	99.66	99.72	9.68	9.20	29.77	69.57	35.08	7.76
2.00	99.53	99.84	99.90	18.75	15.20	47.82	82.08	53.73	13.90
2.25	99.61	99.90	99.94	29.87	26.60	67.18	90.35	73.22	22.79
2.50	99.78	99.94	99.96	47.51	47.09	86.91	96.76	97.12	43.53
2.75	99.84	99.97	99.98	71.56	77.54	97.25	99.38	99.03	76.16
3.00	99.88	99.98	99.99	86.28	92.88	99.23	99.76	99.69	91.60
3.25	99.91	99.99	99.99	96.19	98.63	99.75	99.88	99.87	97.99
3.50	99.94	99.99	99.99	99.00	99.51	99.88	99.92	99.93	99.43
3.75	99.97	99.99	99.99	99.82	99.92	99.95	99.96	99.97	99.85
4.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Table 6 (Cont.)

Grain Size (ϕ)	B-11	B-12	B-13	B-15	B-17	B-18	B-32	B-33	B-34
-0.75								0.09	0.30
-0.50		0.03						0.17	0.87
-0.25		0.09		0.01	0.01			0.51	2.16
0.00		0.23	0.01	0.03	0.03			1.33	4.03
0.25	0.01	0.64	0.03	0.04	0.03	0.02	0.003	4.08	8.32
0.50	0.07	1.15	0.05	0.08	0.08	0.04	0.03	6.87	12.78
0.75	0.25	3.30	0.09	0.10	0.16	0.21	0.09	15.35	24.65
1.00	0.50	5.62	0.18	0.12	0.26	0.52	0.22	22.00	34.28
1.25	1.54	12.06	1.19	0.13	0.60	1.47	0.79	35.52	50.25
1.50	4.56	20.82	5.87	0.18	2.04	3.93	2.86	51.15	68.43
1.75	16.80	36.37	10.20	1.11	8.19	12.21	9.27	69.95	85.91
2.00	33.76	51.83	39.61	5.90	19.44	26.12	17.63	83.35	95.02
2.25	54.55	68.63	61.11	18.76	38.89	46.40	29.78	92.34	98.17
2.50	77.97	84.43	83.91	43.07	69.71	73.83	47.51	97.56	99.36
2.75	92.70	94.11	96.61	71.91	90.60	92.60	68.96	99.22	99.69
3.00	97.49	97.49	98.98	87.17	97.36	97.91	83.05	99.64	99.80
3.25	99.29	99.14	99.69	96.07	99.31	99.36	96.92	99.82	99.87
3.50	99.75	99.67	99.89	98.49	99.72	99.74	99.06	99.89	99.91
3.75	99.95	99.92	99.98	99.61	99.94	99.93	99.85	99.95	99.96
4.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

TABLE 7. Cumulative Weight Percent of Sample by Settling Analysis -- Beach Foreshore Sands

Grain Size(ϕ)	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10	B-11	B-12	B-13
0.0										0.32			
0.1										0.49			
0.2	0.85		0.27							0.97			
0.3	6.08		1.20	0.49						1.29			
0.4	12.87	2.82	2.41	5.37				0.21		1.78			
0.5	19.80	15.28	4.28	12.09				0.63		2.10			
0.6	29.70	24.92	6.68	21.37				1.27		2.91			
0.7	39.32	34.39	11.36	30.65				2.54		3.65			
0.8	49.36	43.85	17.11	42.00				3.81		4.21		0.50	
0.9	58.56	54.59	23.13	53.97				4.86	1.53	4.85		1.12	
1.0	66.62	62.79	30.61	64.84				8.03	1.87	5.83		1.74	
1.1	74.96	71.10	39.30	74.24				14.16	2.39	6.80		2.49	
1.2	82.04	78.41	47.46	81.20				17.97	2.73	7.93		3.73	
1.3	87.41	84.22	57.49	86.20				22.41	4.26	9.06		5.47	
1.4	90.81	89.04	67.38	91.33				29.39	6.13	10.36		7.96	
1.5	93.92	92.86	75.67	94.99				37.63	8.52	12.14	0.53	11.07	
1.6	96.46	94.68	83.42	97.19				46.72	11.93	14.56	1.98	15.30	
1.7	98.00	96.51	89.17	98.41			3.03	53.91	17.04	17.64	4.49	20.90	
1.8	98.87	97.34	98.58	99.39			10.91	61.73	22.15	21.36	8.98	27.11	3.03
1.9	99.29	97.84	96.52	99.51			23.03	69.13	29.47	27.51	15.85	34.70	10.80
2.0	99.72	98.90	98.18	99.76			35.45	75.05	40.55	35.28	26.20	44.53	21.97
2.1	99.86	98.34	99.06	99.88	5.24		48.48	83.30	53.49	45.65	39.37	55.97	38.26
2.2	100.00	98.67	99.33	100.00	12.38		62.73	88.79	66.95	56.96	53.90	66.92	57.27
2.3		98.84	99.47		20.48	4.14	75.45	92.18	80.07	69.26	68.82	77.24	67.80

TABLE 7 (continued)

Grain Size(ϕ)	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10	B-11	B-12	B-13
2.4		99.34	99.73		29.05	7.14	84.24	94.50	88.59	80.42	81.37	85.82	81.06
2.5		99.67	99.87		40.00	28.20	92.12	96.19	93.87	89.00	90.09	91.79	89.02
2.6		99.83	100.00		52.86	46.24	95.45	97.89	96.59	94.82	95.11	95.65	94.70
2.7		100.00			65.24	63.91	98.18	98.31	98.30	98.06	97.49	98.26	96.97
2.8					76.43	78.20	99.39	98.73	99.15	99.19	98.81	98.88	98.48
2.9					85.95	87.59	100.00	99.15	99.66	99.68	99.21	99.63	99.43
3.0					93.10	93.61		99.58	99.83	100.00	99.34	100.00	100.00
3.1					97.14	96.99		99.79	100.00		99.60		
3.2					99.05	98.87		100.00			100.00		
3.3					100.00	100.00							
3.4													
3.5													

TABLE 7 (continued)

Grain Size(ϕ)	B-14	B-15	B-16	B-17	B-18	B-19	B-20	B-21	B-22	B-23	B-24	B-25	B-26
0.0													
0.1													
0.2													1.29
0.3													1.93
0.4												0.12	5.79
0.5						0.14						0.72	10.94
0.6						0.68				0.19		1.55	16.09
0.7						1.90		0.13	0.16	0.56		2.39	21.67
0.8						3.67	1.28	0.51	0.80	1.32		4.06	27.04
0.9						5.99	2.74	1.26	1.75	2.44		6.33	33.48
1.0						9.80	4.75	2.78	3.98	4.32	0.55	9.56	39.06
1.1						15.65	7.86	5.06	7.80	7.33	1.86	14.22	46.78
1.2	0.79					22.45	12.25	8.22	13.85	11.47	3.60	19.24	57.58
1.3	3.47					31.56	18.28	14.16	23 73	17.29	6.44	26.16	60.94
1.4	7.92					42.72	26.87	21.87	37.58	25.75	10.81	34.17	70.17
1.5	13.86					53.61	38.21	31.35	52.87	34.21	15.72	42.29	78.76
1.6	21.29			0.13		64.08	49.54	41.47	66.40	43.61	21.62	50.54	86.48
1.7	29.70			1.06	1.14	74.88	61.61	53.98	78.98	54.14	28.60	59.02	91.85
1.8	39.11			2.52	2.86	83.67	72.39	66.62	88.06	63.72	37.23	67.03	95.49
1.9	49.31			5.84	6.00	90.48	81.90	78.13	94.11	72.37	47.16	74.55	97.85
2.0	60.79	0.97	1.70	10.62	11.71	94.56	88.85	86.35	97.29	80.08	57.42	79.93	99.14
2.1	70.50	3.55	4.91	17.93	20.57	96.73	93.24	92.29	99.04	85.90	67.58	86.02	99.79
2.2	79.21	11.94	11.13	28.69	32.29	98.10	96.16	96.08	99.84	94.74	77.07	90.32	100.00
2.3	85.15	22.10	21.51	43.82	47.43	99.05	97.81	98.23	100.00	97.56	85.26	93.79	

TABLE 7 (continued)

Grain Size(ϕ)	B-14	B-15	B-16	B-17	B-18	B-19	B-20	B-21	B-22	B-23	B-24	B-25	B-26
2.4	90.00	37.42	36.04	61.75	61.71	99.46	98.72	99.24		99.25	91.26	96.06	
2.5	93.86	54.03	50.57	78.09	80.00	99.73	99.27	99.62		100.00	95.31	97.97	
2.6	95.74	69.35	66.80	86.32	90.57	99.73	99.45	100.00			97.93	98.92	
2.7	97.03	81.13	78.87	95.22	96.00	100.00	99.82				99.24	99.64	
2.8	98.02	90.16	87.55	98.41	98.57		100.00				99.89	99.76	
2.9	98.42	95.16	94.15	99.34	100.00						100.00	100.00	
3.0	98.91	98.06	97.36	99.73									
3.1	99.21	99.19	99.43	100.00									
3.2	99.60	99.84	100.00										
3.3	99.70	100.00											
3.4	99.90												
3.5	100.00												

TABLE 7 (continued)

B-27	B-28	B-29	B-30	B-31	B-32	B-33	B-34	Grain Size(ϕ)
	0.18							0.0
	0.36							0.1
0.31	0.63	0.33						0.2
1.54	0.90	2.01						0.3
2.78	1.43	4.01	1.15	1.06				0.4
4.32	2.15	5.69	2.31	1.59				0.5
6.79	2.87	7.36	4.90	1.85				0.6
10.19	3.58	10.37	7.49	2.12			0.20	0.7
17.59	4.66	15.05	12.10	2.38			1.77	0.8
26.85	7.17	18.73	16.43	2.65			4.23	0.9
37.96	10.39	25.08	23.63	3.44		1.37	8.26	1.0
52.47	17.03	34.45	32.38	4.76		4.58	13.37	1.1
68.21	24.46	44.48	40.65	7.67		8.92	20.06	1.2
89.81	32.80	57.86	51.01	12.70		15.10	27.34	1.3
98.15	45.74	72.58	61.96	22.22		21.74	35.89	1.4
99.38	60.04	86.96	71.76	34.39		29.75	45.82	1.5
100.00	72.49	96.99	80.40	51.06		38.44	56.24	1.6
	84.77	99.00	87.90	68.52	0.74	47.37	66.77	1.7
	93.10	99.33	93.08	82.28	3.35	57.89	76.89	1.8
	95.79	99.33	96.54	90.74	7.82	66.36	86.33	1.9
	98.21	100.00	98.85	94.18	12.10	75.29	93.12	2.0
	99.10		99.42	96.56	18.62	88.52	96.56	2.1
	99.55		100.00	98.41	25.14	89.70	97.74	2.2
	99.91			99.21	33.15	93.82	98.82	2.3

TABLE 7 (continued)

B-27	B-28	B-29	B-30	B-31	B-32	B-33	B-34	Grain Size(ϕ)
	100.00			100.00	44.32	96.34	99.71	2.4
					55.87	97.48	99.80	2.5
					66.29	98.63		2.6
					77.10	99.31		2.7
					85.29	99.77		2.8
					90.13	100.00		2.9
					94.14			3.0
					96.65			3.1
					98.14			3.2
					99.26			3.3
					99.81			3.4
					100.00			3.5

TABLE 8. Cumulative Weight Percent of Sample by Settling Analysis - Desert Dune Sands

Grain Size(ϕ)	D-1	D-2	D-3	D-4	D-5	D-6	D-7	D-8	D-9	D-10	D-11	D-12	D-13	D-14	D-15	D-16
1.0				0.60				0.80	0.20						0.20	
1.1				0.80		0.20		0.90	0.60	0.10		0.30		0.31	0.70	
1.2				0.90	0.20	0.40	0.16	1.20	0.70	0.50		0.70		0.61	1.20	0.20
1.3	0.30		0.22	1.20	0.39	0.70	0.81	2.10	0.80	0.80		1.30	0.40	1.38	3.20	0.31
1.4	0.61	0.30	0.44	2.30	1.18	1.00	2.43	3.50	1.00	1.80		3.30	0.90	3.23	6.40	0.61
1.5	2.29	0.60	1.31	4.10	2.94	2.60	6.65	7.60	1.70	3.50	0.15	6.80	1.70	6.45	11.50	1.22
1.6	5.49	1.20	3.72	7.00	7.05	5.70	15.40	14.90	2.70	6.00	0.91	11.80	3.70	12.44	19.40	1.44
1.7	10.98	3.40	8.32	11.80	14.20	11.10	28.85	24.50	4.50	9.20	2.28	19.00	7.30	20.43	29.20	4.58
1.8	18.29	7.20	14.24	16.90	23.11	17.90	43.11	33.80	7.30	13.00	5.61	27.80	12.30	29.49	38.80	7.93
1.9	29.73	15.00	21.80	24.20	36.04	28.70	59.81	44.80	12.80	18.00	11.68	38.20	19.30	41.17	48.60	13.63
2.0	41.16	24.50	30.23	31.60	48.38	40.70	72.61	54.30	21.60	24.10	20.33	42.90	26.60	51.92	57.20	20.75
2.1	53.66	34.20	41.18	33.40	60.53	52.80	83.47	63.30	35.90	32.20	31.41	57.50	35.50	62.06	64.20	31.33
2.2	64.79	46.60	54.33	47.30	71.30	64.70	91.73	72.10	51.70	42.60	44.46	66.60	44.70	71.58	74.40	44.76
2.3	74.09	58.50	66.81	55.30	79.82	73.80	97.24	78.70	67.20	55.80	58.88	75.00	54.20	79.42	77.10	59.92
2.4	80.95	69.60	76.89	63.50	86.09	81.30	99.35	84.10	78.50	68.50	71.32	82.20	63.40	85.41	81.50	72.23
2.5	86.13	79.50	84.67	71.50	90.50	86.70	99.68	88.70	86.70	80.00	81.94	88.00	71.90	90.02	85.10	81.89
2.6	90.40	86.80	90.25	78.40	93.54	90.60	99.68	92.20	91.80	87.60	89.13	92.10	78.20	93.39	88.10	88.30
2.7	93.14	92.00	93.76	84.20	95.79	93.00	99.84	94.90	94.90	92.40	93.63	95.00	83.70	95.39	90.50	92.37
2.8	95.58	94.70	96.39	88.30	97.75	94.80	100.00	97.00	96.30	95.60	96.51	96.10	88.00	96.93	92.50	94.91
2.9	96.80	96.70	97.92	90.40	98.53	95.80		97.70	97.50	97.50	98.48	97.40	91.60	97.85	94.20	96.54

TABLE 8 (Cont.)

Grain Size(Ø)	D-1	D-2	D-3	D-4	D-5	D-6	D-7	D-8	D-9	D-10	D-11	D-12	D-13	D-14	D-15	D-16
3.0	97.71	97.50	98.80	92.30	99.12	96.60		98.40	98.00	98.30	99.39	98.20	94.10	98.31	95.20	97.66
3.1	98.02	97.90	99.34	93.50	99.41	96.90		99.00	98.30	98.90	99.70	98.40	95.70	98.62	96.00	98.17
3.2	98.48	98.20	99.67	94.40	99.71	97.30		99.20	98.60	99.50	100.00	98.70	96.30	98.92	96.80	98.68
3.3	98.63	98.30	100.00	95.50	100.00	97.70		99.30	98.90	100.00		99.00	97.50	99.73	97.40	98.98
3.4	98.81	98.70		96.10		98.10		99.50	99.20			99.30	98.20	99.54	98.00	99.25
3.5	98.99	98.80		96.70		98.40		99.70	99.40			99.50	98.80	99.69	98.60	99.49
3.6	99.18	98.90		97.20		98.70		99.80	99.60			99.80	99.10	99.85	98.80	99.80
3.7	99.36	99.40		97.80		99.00		100.00	99.80			100.00	99.30	100.00	98.90	99.90
3.8	99.54	100.00		98.30		99.30			100.00				99.50		99.10	100.00
3.9	99.70			99.00		99.60							99.80		99.30	
4.0	99.85			99.20		99.80							100.00		99.40	
4.1	100.00			99.50		100.00									99.60	
4.2				100.00											99.80	
4.3															100.00	
4.4																

TABLE 8(Cont.)

Grain Size(ϕ)	D-17	D-18	D-19	D-20	D-21	D-22	D-23	D-24	D-25	D-26	D-27	D-28	D-29	D-30	D-31	
1.0	0.20															1.0
1.1	0.50															1.1
1.2	0.80		0.12	0.27					0.15							1.2
1.3	2.00	0.34	0.36	0.55	0.20				0.61					0.40		1.3
1.4	4.30	0.69	0.73	0.96	0.20		0.30		1.38			0.50	0.20	1.00	0.60	1.4
1.5	8.10	1.37	1.82	2.19	0.30		0.61		3.98	0.50	0.53	0.70	0.80	2.10	1.60	1.5
1.6	14.40	4.12	3.76	5.46	0.80	0.20	1.52	0.20	9.94	2.20	1.97	1.60	3.00	4.80	4.20	1.6
1.7	21.40	8.08	7.65	12.30	1.80	0.70	3.81	0.80	19.88	4.30	4.47	3.80	7.90	9.90	8.90	1.7
1.8	29.30	15.29	14.68	24.04	4.50	1.20	8.23	2.10	31.96	7.50	8.68	8.20	14.50	15.80	14.40	1.8
1.9	37.80	26.29	27.31	42.35	9.40	3.00	17.38	5.50	46.33	12.10	15.53	17.50	23.30	23.60	22.30	1.9
2.0	46.50	37.80	42.23	58.88	17.30	6.00	29.88	9.60	58.87	17.20	23.68	29.10	33.10	31.10	30.00	2.0
2.1	55.20	50.52	57.52	73.50	27.40	12.30	45.43	17.20	68.81	23.20	34.21	43.50	43.80	39.30	38.20	2.1
2.2	64.30	61.34	71.00	84.15	39.30	24.70	61.13	26.50	76.76	29.10	45.26	57.30	54.60	47.40	46.60	2.2
2.3	72.80	70.79	80.58	90.44	51.40	44.60	73.48	37.80	82.11	36.70	56.05	69.60	65.00	55.10	54.60	2.3
2.4	80.00	78.35	86.89	93.85	62.40	64.00	83.23	48.60	86.54	44.00	66.45	80.10	74.50	62.40	62.70	2.4
2.5	85.80	84.71	91.38	95.77	72.70	78.50	89.48	60.30	90.21	52.30	76.05	86.80	82.30	69.30	70.40	2.5
2.6	90.30	89.00	94.42	97.13	80.00	87.40	93.14	69.80	93.27	60.70	83.29	91.30	88.70	75.20	76.70	2.6
2.7	93.50	91.92	96.12	98.09	85.80	93.20	95.27	77.60	95.87	68.20	88.95	94.40	92.90	80.00	81.90	2.7
2.8	96.70	94.50	97.33	98.77	89.70	95.80	96.65	83.40	97.40	74.60	92.89	96.30	96.10	84.40	86.60	2.8
2.9	97.30	95.70	97.94	99.18	92.70	97.30	97.71	87.80	98.62	81.70	95.92	97.30	97.60	87.80	89.70	2.9

TABLE 8 (Cont.)

Grain Size(ϕ)	D-17	D-18	D-19	D-20	D-21	D-22	D-23	D-24	D-25	D-26	D-27	D-28	D-29	D-30	D-31	
3.0	98.20	96.22	98.42	99.45	94.30	98.30	98.17	91.20	99.24	86.70	97.63	98.10	98.50	90.50	92.40	3.0
3.1	98.70	97.25	98.79	99.59	95.80	98.80	98.63	93.60	99.54	89.90	98.82	99.00	98.80	92.60	94.30	3.1
3.2	99.20	97.77	99.27	99.73	96.60	99.30	99.09	95.50	99.85	92.20	99.47	99.30	99.10	94.40	95.60	3.2
3.3	99.50	98.08	99.39	99.73	97.30	99.70	99.29	96.40	100.00	95.00	100.00	99.80	99.40	95.60	96.60	3.3
3.4	99.80	98.35	99.51	99.86	98.00	99.80	99.70	97.30		95.80		100.00	99.70	96.40	97.50	3.4
3.5	100.00	98.63	99.64	100.00	98.60	100.00	99.85	98.20		96.60			100.00	97.10	98.40	3.5
3.6		98.97	99.76		98.70		100.00	98.60		97.40				97.80	98.60	3.6
3.7		99.31	99.88		98.90			98.80		93.30				98.60	98.80	3.7
3.8		99.83	100.00		99.00			99.00		98.70				98.80	99.00	3.8
3.9		100.00			99.20			99.30		99.10				99.00	99.20	3.9
4.0					99.30			99.50		99.50				99.20	99.40	4.0
4.1					99.50			99.80		100.00				99.40	99.60	4.1
4.2					99.80			100.00						99.70	99.80	4.2
4.3					100.00									99.90	100.00	4.3
4.4														100.00		4.4

TABLE 9. Comparison of Median Grain Sizes Derived by Sieving vs. Settling Analysis

Beach Foreshore Sands			Fluvial Sands		
	Medians (ϕ)			Medians (ϕ)	
Samples	Sieve	Settling	Samples	Sieve	Settling
B- 1	0.124	0.807	F- 1	2.975	3.244
B- 2	0.128	0.858	F- 2	1.985	2.118
B- 4	0.153	0.867	F- 3	2.313	2.528
B- 5	2.526	2.578	F- 4	3.251	3.501
B- 6	2.524	2.621	F- 5	1.872	2.176
B- 7	2.028	2.111	F- 6	1.880	2.134
B- 8	1.462	1.646	F- 7	1.652	1.887
B- 9	1.950	2.073	F- 8	1.714	1.949
B-10	2.546	2.550	F- 9	1.730	1.980
B-11	2.195	2.173	F-10	1.356	1.776
B-12	1.970	2.048	F-11	0.707	1.299
B-13	2.121	2.184	F-13	1.379	1.571
B-14	-	1.919	F-15	2.112	2.307
B-15	2.560	2.476			
B-16	-	2.496			
B-17	2.340	2.334			
B-18	2.283	2.318			

TABLE 10. Cumulative Velocity Distributions as Percent of Sample - Beach Foreshore Sands

Velocity (ψ Units)	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10	B-11	B-12	B-13	B-14	B-15	B-16	B-17
-4.00																	
-3.75	3.99		0.83							1.17							
-3.50	21.32	16.76	4.65	13.51				0.73		2.23							
-3.25	45.27	39.99	14.76	37.37				3.29		3.94							
-3.00	66.03	62.18	30.06	64.04				7.80	1.85	5.75		1.70					
-2.75	82.89	79.33	49.06	81.99				18.68	2.97	8.11		4.01		1.22			
-2.50	91.73	90.17	69.85	92.42				31.84	6.84	10.89		8.89		9.69			0.46
-2.25	97.10	95.32	85.42	97.62				49.22	13.70	15.63	2.86	17.25		24.22			3.52
-2.00	99.00	97.50	94.51	99.43			14.74	64.07	24.46	23.30	11.15	29.51	5.48	42.33			12.13
-1.75	99.75	98.08	98.32	99.78			38.14	76.75	43.22	37.41	28.99	46.89	25.33	62.79	1.50	2.36	29.07
-1.50	100.00	98.67	99.33	100.00	12.59		63.05	88.88	67.28	57.27	54.28	67.18	52.67	79.36	12.19	11.40	57.71
-1.25		98.80	99.67		27.12	6.47	82.26	93.98	86.67	77.90	78.55	83.89	78.07	88.91	33.97	32.76	81.90
-1.00		99.49	99.93		45.96	36.56	93.67	96.98	95.13	91.70	92.42	93.58	91.65	94.73	61.44	58.00	95.54
-0.75		99.85	100.00		66.35	65.33	98.30	98.35	98.38	98.17	97.62	98.32	97.12	97.13	82.02	79.73	99.04
-0.50		100.00			82.92	84.60	99.81	99.02	99.50	99.52	99.08	99.39	99.13	98.29	93.57	92.05	99.79
-0.25					93.99	94.36	100.00	99.62	99.87	100.00	99.40	100.00	100.00	98.98	98.31	97.82	100.00
0.00					98.51	98.35		99.94	100.00		99.89			99.49	99.66	99.84	
0.25					100.00	100.00		100.00			100.00			99.74	100.00	100.00	
0.50														99.96			
0.75														100.00			

TABLE 10 (Cont.)

Velocity (ψ Units)	B-18	B-19	B-20	B-21	B-22	B-23	B-24	B-25	B-26	B-27	B-28	B-29	B-30	B-31	B-32	B-33	B-34
-4.00											0.17						
-3.75									1.67	1.05	0.79	1.34					
-3.50		0.22						0.85	11.73	4.70	2.26	5.95	2.71	1.63			
-3.25		2.95		0.35	0.54	1.01		3.38	24.85	14.57	4.22	13.14	10.22	2.27			1.13
-3.00		9.52	4.60	2.67	3.82	4.18		9.32	38.65	37.14	10.15	24.61	23.10	3.38			7.96
-2.75		23.90	13.21	9.16	15.42	12.40	4.05	20.34	53.91	71.65	25.79	46.61	42.28	8.47		9.91	21.22
-2.50		45.96	30.24	24.69	42.13	28.27	12.27	36.59	72.73	98.52	49.99	76.86	64.88	25.84		24.12	38.84
-2.25		67.87	53.74	45.82	70.78	47.27	24.05	53.49	88.35	100.00	76.76	97.69	83.01	57.14		41.55	59.91
-2.00	3.85	85.82	75.39	70.25	89.97	66.45	40.37	69.40	96.24		93.95	99.33	94.17	84.95	4.76	60.57	79.87
-1.75	13.54	95.01	89.76	87.58	97.65	81.28	59.52	81.19	99.27		98.39	99.47	98.97	94.67	13.45	76.99	93.83
-1.50	32.67	98.12	96.20	96.13	99.84	91.08	77.28	90.41	100.00		99.56	100.00	100.00	98.43	25.34	89.81	97.77
-1.25	58.49	99.37	98.51	99.01	100.00	96.92	89.91	95.55			99.98			99.82	41.80	95.77	99.51
-1.00	84.90	99.73	99.35	99.80		99.60	96.52	98.41			100.00			100.00	60.70	98.01	99.89
-0.75	96.26	100.00	99.84	100.00		100.00	99.30	99.65							77.91	99.36	100.00
-0.50	99.55		100.00				99.97	99.92							88.59	99.93	
-0.25	100.00						100.00	100.00							94.91	100.00	
0.00															97.72		
0.25															99.36		
0.50															99.93		
0.75															100.00		

TABLE 11. Cumulative Velocity Distributions

Percent of Sample - Fluvial Sands

Velocity (Ψ Units)	F-1	F-2	F-3	F-4	F-5	F-6	F-7	F-8	F-9	F-10	F-11	F-12	F-13	F-14	F-15
-4.50								0.14		1.99					
-4.25								0.61		5.21			0.62		
-4.00		6.07						1.18		10.39		3.00	6.39	1.00	
-3.75		9.20	2.30					1.82		15.10	8.07	13.86	12.26	9.08	
-3.50		10.06	6.38					2.46		18.98	18.68	20.27	15.18	25.67	0.16
-3.25		10.92	11.31				0.51	3.10	0.58	22.94	30.53	27.12	18.20	35.16	3.52
-3.00		11.78	15.18				1.51	3.74	0.91	27.49	41.33	31.45	24.90	43.96	7.30
-2.75		12.64	18.74		0.58	0.83	3.43	4.38	2.89	31.88	47.32	36.20	32.58	53.46	11.27
-2.50		14.70	22.73		2.69	3.24	6.32	5.25	6.32	38.54	55.80	41.85	42.95	62.94	17.90
-2.25		17.93	27.05		5.76	7.26	17.36	13.74	15.86	45.07	61.70	49.29	53.14	73.13	23.02
-2.00		23.69	31.34		14.34	19.46	43.20	34.54	34.54	51.94	67.85	55.20	65.31	81.11	30.45
-1.75	0.19	37.52	36.16		31.17	38.40	65.17	58.84	53.90	57.74	73.84	59.95	73.79	87.79	38.53
-1.50	1.63	61.53	40.50		52.91	56.70	79.58	76.93	72.03	62.75	78.49	64.52	79.87	92.31	45.47
-1.25	4.41	83.41	45.37	0.58	68.04	72.10	87.79	90.53	83.81	67.66	81.69	68.34	84.11	95.19	52.84
-1.00	9.49	92.80	50.42	2.35	77.83	81.67	92.12	95.74	91.10	71.96	84.57	72.19	87.62	95.84	59.26
-0.75	16.87	96.02	55.12	4.89	83.49	87.90	95.22	98.00	94.89	74.64	87.33	75.96	89.64	96.49	64.90
-0.50	25.48	97.67	60.01	9.64	87.46	91.87	96.57	99.24	96.03	80.82	90.09	79.40	91.58	97.14	70.24
-0.25	35.35	99.12	64.49	16.26	90.81	95.12	97.92	99.73	97.09	84.28	92.13	82.30	93.36	97.79	74.79
0.00	45.11	98.58	68.83	24.97	92.99	96.49	99.12	100.00	98.14	87.26	93.82	85.06	95.06	98.44	78.57
0.25	54.94	99.76	73.32	34.51	95.05	97.86	99.65		99.03	89.70	95.33	87.58	95.76	99.05	82.44
0.50	65.77	99.95	78.06	46.19	96.08	99.09	100.00		99.18	91.83	96.43	89.62	96.46	99.41	85.31
0.75	75.63	100.00	82.57	58.02	97.11	99.52			99.33	93.61	97.53	91.67	97.17	99.71	88.35
1.00	82.39		87.11	68.57	98.15	99.86			99.47	95.22	98.63	93.78	97.87	99.99	91.61
1.25	87.23		91.32	78.18	99.10	100.00			100.00	96.20	99.45	95.53	98.57	100.00	93.82
1.50	89.43		93.90	83.88	99.62					97.18	99.87	96.77	99.17		95.81
1.75	92.38		96.10	88.63	99.99					98.16	100.00	98.01	99.61		97.55
2.00	96.01		97.93	92.36	100.00					99.07		99.13	100.00		99.69
2.25	98.22		99.72	95.26						99.61		99.75			100.00
2.50	99.98		100.00	98.06						100.00		100.00			
2.75	100.00			100.00											

TABLE 13. Parameters of Settling Velocity (Psi) Distributions

No.	μ	σ	Sk	K
Beach				
B- 1	-3.143	0.424	0.300	0.113
B- 2	-3.065	0.472	0.726	3.701
B- 3	-2.740	0.471	0.089	-0.002
B- 4	-3.090	0.378	0.322	0.199
B- 5	-0.944	0.439	0.095	-0.698
B- 6	-0.839	0.330	0.333	0.104
B- 7	-1.600	0.368	0.234	-0.300
B- 8	-2.198	0.607	0.176	0.259
B- 9	-1.725	0.486	-0.202	0.562
B-10	-1.707	0.642	-0.573	1.507
B-11	-1.536	0.391	0.162	0.596
B-12	-1.751	0.526	-0.137	-0.057
B-13	-1.499	0.353	0.250	0.168
B-14	-1.867	0.521	0.397	1.308
B-15	-1.081	0.366	0.172	-0.082
B-16	-1.060	0.380	0.122	-0.238
B-17	-1.323	0.362	-0.047	0.049
B-18	-1.348	0.354	-0.053	-0.313
B-19	-2.450	0.434	0.097	0.199
B-20	-2.277	0.432	0.153	0.278
B-21	-2.210	0.411	0.020	-0.060
B-22	-2.425	0.335	0.034	-0.062
B-23	-2.196	0.490	0.070	-0.355
B-24	-1.883	0.495	0.008	-0.509
B-25	-2.271	0.571	0.108	-0.232
B-26	-2.843	0.501	-0.005	-0.779
B-27	-2.944	0.292	-0.253	0.241
B-28	-2.530	0.398	-0.252	1.045
B-29	-2.787	0.383	-0.297	0.324
B-30	-2.673	0.433	-0.020	-0.458
B-31	-2.317	0.371	-0.260	1.965
B-32	-1.136	0.527	0.114	-0.215
B-33	-2.115	0.486	0.201	-0.184
B-34	-2.375	0.435	0.038	-0.318

TABLE 13 (Cont.)

No.	μ	σ	Sk	K
Dune				
D- 1	-1.596	0.565	0.776	4.891
D- 2	-1.413	0.529	0.635	3.821
D- 3	-1.529	0.479	0.207	0.284
D- 4	-1.364	0.785	0.574	2.315
D- 5	-1.702	0.472	0.369	0.886
D- 6	-1.582	0.609	0.879	5.402
D- 7	-1.969	0.329	0.123	-0.005
D- 8	-1.758	0.568	0.426	1.589
D- 9	-1.481	0.476	0.529	4.407
D-10	-1.449	0.515	-0.007	0.291
D-11	-1.428	0.420	0.162	0.074
D-12	-1.687	0.567	0.445	1.798
D-13	-1.349	0.654	0.438	1.355
D-14	-1.734	0.547	0.533	2.591
D-15	-1.724	0.740	0.793	3.787
D-16	-1.424	0.496	0.404	2.456
D-17	-1.673	0.599	0.350	0.791
D-18	-1.543	0.584	0.744	3.782
D-19	-1.650	0.461	0.679	4.430
D-20	-1.803	0.389	0.614	4.132
D-21	-1.282	0.610	0.804	4.916
D-22	-1.285	0.376	0.447	2.958
D-23	-1.549	0.442	0.597	3.209
D-24	-1.111	0.619	0.605	2.671
D-25	-1.776	0.488	0.459	0.867
D-26	-1.053	0.751	0.340	0.676
D-27	-1.400	0.506	0.210	-0.059
D-28	-1.523	0.451	0.421	1.485
D-29	-1.519	0.506	0.319	0.732
D-30	-1.320	0.780	0.572	1.875
D-31	-1.340	0.722	0.554	2.085

TABLE 13 (Cont.)

No.	μ	σ	Sk	K
Fluvial				
F- 1	0.174	0.923	0.174	-0.381
F- 2	-1.836	0.877	-0.662	1.534
F- 3	-1.015	1.637	0.016	-1.045
F- 4	0.619	0.867	0.106	-0.367
F- 5	-1.358	0.772	0.658	2.144
F- 6	-1.493	0.648	0.460	1.287
F- 7	-1.839	0.563	0.448	1.971
F- 8	-1.850	0.565	-0.597	4.701
F- 9	-1.738	0.615	0.539	3.229
F-10	-1.918	1.596	0.194	-0.463
F-11	-2.376	1.247	0.480	0.240
F-12	-1.919	1.617	0.304	-0.538
F-13	-2.253	1.194	0.392	0.989
F-14	-2.737	0.904	0.503	1.333
F-15	-1.157	1.358	0.216	-0.616