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LAMPIRAN

Lampiran 1. Data Hasil Pengukuran Makrozoobentos

Kelas	Spesies	Stasiun 3		Stasiun 4		Stasiun 5		Stasiun 6	
		Pi	Pi In Pi	Pi	Pi In Pi	Pi	Pi In Pi	Pi	Pi In Pi
Gastropoda	<i>Nassarius sp</i>	1,0	0,0	0,0		0,0		0,0	
	<i>Pisania sp</i>	0,0		0,0		0,0		0,1	-0,3
	<i>Buccinidae</i>	0,0		0,0		0,0		0,1	-0,3
	<i>Rhinoclavis sp</i>	0,0		0,0		0,0		0,1	-0,3
Crustacea	<i>Harpiosquilla raphidea</i>	0,0		0,0		0,0		0,1	-0,3
Ophiuroidea	<i>Ophiomastix janualis</i>	0,0		0,0		0,3	-0,4	0,1	-0,3
Oligochaeta	Cacing	0,0		1,0	0,0	0,7	-0,3	0,4	-0,4
Jumlah Jenis (S)		7,0		7,0		7,0		7,0	
Indeks Keanekaragaman (H')			0,00 0		0,00 0		0,63 7		1,66 7
Indeks Keseragaman (E)		0,00 0		0,00 0		0,32 7		0,85 7	
Indeks Dominansi (C)									

Lampiran 2. Hasil pengolahan data GRADISTAT

SAMPLE STATISTICS							
SAMPLE IDENTITY: S1.1		ANALYST & DATE: ,					
SAMPLE TYPE: Polymodal, Poorly Sorted		TEXTURAL GROUP: Gravelly Sand					
SEDIMENT NAME: Very Fine Gravelly Fine Sand							
	μm	ϕ	GRAIN SIZE DISTRIBUTION				
MODE 1:	152,5	2,737	GRAVEL: 9,1%		COARSE SAND: 15,5%		
MODE 2:	302,5	1,747	SAND: 89,0%		MEDIUM SAND: 20,6%		
MODE 3:	76,50	3,731	MUD: 1,9%		FINE SAND: 26,3%		
D_{10} :	75,55	-0,446			V FINE SAND: 15,9%		
MEDIAN or D_{50} :	276,4	1,855	V COARSE GRAVEL: 0,0%		V COARSE SILT: 0,3%		
D_{90} :	1361,9	3,726	COARSE GRAVEL: 0,0%		COARSE SILT: 0,3%		
(D_{90} / D_{10}) :	18,03	-8,362	MEDIUM GRAVEL: 0,0%		MEDIUM SILT: 0,3%		
$(D_{90} - D_{10})$:	1286,4	4,172	FINE GRAVEL: 0,0%		FINE SILT: 0,3%		
(D_{75} / D_{25}) :	4,570	4,301	V FINE GRAVEL: 9,1%		V FINE SILT: 0,3%		
$(D_{75} - D_{25})$:	493,0	2,192	V COARSE SAND: 10,6%		CLAY: 0,3%		
	METHOD OF MOMENTS		FOLK & WARD METHOD				
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description	
	μm	μm	ϕ	μm	ϕ		Setelah dibagi 1000
MEAN (\bar{x}):	556,0	290,7	1,782	299,7	1,739	Medium Sand	0,300
SORTING (σ):	672,9	3,187	1,672	3,249	1,700	Poorly Sorted	
SKEWNESS (S_k):	1,838	-0,107	0,107	0,149	-0,149	Coarse Skewed	
KURTOSIS (K):	5,325	3,334	3,334	0,955	0,955	Mesokurtic	
SAMPLE STATISTICS							
SAMPLE IDENTITY: S1.2		ANALYST & DATE: ,					
SAMPLE TYPE: Polymodal, Poorly Sorted		TEXTURAL GROUP: Gravelly Sand					
SEDIMENT NAME: Very Fine Gravelly Fine Sand							
	μm	ϕ	GRAIN SIZE DISTRIBUTION				
MODE 1:	152,5	2,737	GRAVEL: 11,2%		COARSE SAND: 17,4%		
MODE 2:	1200,0	-0,243	SAND: 88,1%		MEDIUM SAND: 19,4%		
MODE 3:	302,5	1,747	MUD: 0,7%		FINE SAND: 23,7%		
D_{10} :	128,4	-1,053			V FINE SAND: 7,6%		
MEDIAN or D_{50} :	346,7	1,528	V COARSE GRAVEL: 0,0%		V COARSE SILT: 0,1%		
D_{90} :	2075,3	2,961	COARSE GRAVEL: 0,0%		COARSE SILT: 0,1%		
(D_{90} / D_{10}) :	16,16	-2,811	MEDIUM GRAVEL: 0,0%		MEDIUM SILT: 0,1%		
$(D_{90} - D_{10})$:	1946,9	4,014	FINE GRAVEL: 0,0%		FINE SILT: 0,1%		
(D_{75} / D_{25}) :	6,866	-17,275	V FINE GRAVEL: 11,2%		V FINE SILT: 0,1%		
$(D_{75} - D_{25})$:	949,3	2,779	V COARSE SAND: 20,0%		CLAY: 0,1%		
	METHOD OF MOMENTS		FOLK & WARD METHOD				
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description	
	μm	μm	ϕ	μm	ϕ		Setelah dibagi 1000
MEAN (\bar{x}):	716,3	418,1	1,258	398,2	1,329	Medium Sand	0,398
SORTING (σ):	714,2	2,960	1,565	2,931	1,552	Poorly Sorted	
SKEWNESS (S_k):	1,319	-0,199	0,199	0,157	-0,157	Coarse Skewed	
KURTOSIS (K):	3,680	2,796	2,796	0,732	0,732	Platykurtic	
SAMPLE STATISTICS							
SAMPLE IDENTITY: S1.3		ANALYST & DATE: ,					
SAMPLE TYPE: Polymodal, Poorly Sorted		TEXTURAL GROUP: Slightly Gravelly Sand					
SEDIMENT NAME: Slightly Very Fine Gravelly Medium Sand							
	μm	ϕ	GRAIN SIZE DISTRIBUTION				
MODE 1:	302,5	1,747	GRAVEL: 2,8%		COARSE SAND: 21,7%		
MODE 2:	152,5	2,737	SAND: 96,3%		MEDIUM SAND: 30,4%		
MODE 3:	605,0	0,747	MUD: 1,0%		FINE SAND: 24,8%		
D_{10} :	128,0	-0,191			V FINE SAND: 7,4%		
MEDIAN or D_{50} :	303,6	1,720	V COARSE GRAVEL: 0,0%		V COARSE SILT: 0,2%		
D_{90} :	1141,4	2,965	COARSE GRAVEL: 0,0%		COARSE SILT: 0,2%		
(D_{90} / D_{10}) :	8,915	-15,539	MEDIUM GRAVEL: 0,0%		MEDIUM SILT: 0,2%		
$(D_{90} - D_{10})$:	1013,4	3,156	FINE GRAVEL: 0,0%		FINE SILT: 0,2%		
(D_{75} / D_{25}) :	3,765	3,606	V FINE GRAVEL: 2,8%		V FINE SILT: 0,2%		
$(D_{75} - D_{25})$:	441,6	1,913	V COARSE SAND: 11,9%		CLAY: 0,2%		
	METHOD OF MOMENTS		FOLK & WARD METHOD				
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description	
	μm	μm	ϕ	μm	ϕ		Setelah dibagi 1000
MEAN (\bar{x}):	476,7	318,1	1,652	309,0	1,694	Medium Sand	0,309
SORTING (σ):	465,9	2,486	1,314	2,297	1,200	Poorly Sorted	
SKEWNESS (S_k):	2,237	-0,353	0,353	0,032	-0,032	Symmetrical	
KURTOSIS (K):	8,816	4,417	4,417	0,879	0,879	Platykurtic	

SAMPLE STATISTICS						
SAMPLE IDENTITY: S2.1		ANALYST & DATE: ,				
SAMPLE TYPE: Polymodal, Poorly Sorted		TEXTURAL GROUP: Gravelly Sand				
SEDIMENT NAME: Very Fine Gravelly Medium Sand						
	μm	ϕ	GRAIN SIZE DISTRIBUTION			
MODE 1:	1200,0	-0,243	GRAVEL: 14,3%		COARSE SAND: 16,1%	
MODE 2:	302,5	1,747	SAND: 84,5%		MEDIUM SAND: 20,0%	
MODE 3:	152,5	2,737	MUD: 1,1%		FINE SAND: 19,9%	
D_{10} :	125,9	-1,147			V FINE SAND: 8,5%	
MEDIAN or D_{50} :	504,7	0,986	V COARSE GRAVEL: 0,0%		V COARSE SILT: 0,2%	
D_{90} :	2214,6	2,990	COARSE GRAVEL: 0,0%		COARSE SILT: 0,2%	
(D_{90} / D_{10}) :	17,60	-2,607	MEDIUM GRAVEL: 0,0%		MEDIUM SILT: 0,2%	
$(D_{90} - D_{10})$:	2088,8	4,137	FINE GRAVEL: 0,0%		FINE SILT: 0,2%	
(D_{75} / D_{25}) :	7,061	-11,461	V FINE GRAVEL: 14,3%		V FINE SILT: 0,2%	
$(D_{75} - D_{25})$:	1004,2	2,820	V COARSE SAND: 20,0%		CLAY: 0,2%	
	METHOD OF MOMENTS		FOLK & WARD METHOD			
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN (\bar{x}):	779,2	440,1	1,184	458,7	1,124	Medium Sand
SORTING (σ):	767,5	3,159	1,659	3,005	1,587	Poorly Sorted
SKEWNESS (S_k):	1,150	-0,378	0,378	-0,109	0,109	Fine Skewed
KURTOSIS (K):	3,060	3,066	3,066	0,737	0,737	Platykurtic
						Setelah dibagi 1000
						0,459

SAMPLE STATISTICS						
SAMPLE IDENTITY: S2.2		ANALYST & DATE: ,				
SAMPLE TYPE: Polymodal, Poorly Sorted		TEXTURAL GROUP: Gravelly Sand				
SEDIMENT NAME: Very Fine Gravelly Fine Sand						
	μm	ϕ	GRAIN SIZE DISTRIBUTION			
MODE 1:	605,0	0,747	GRAVEL: 7,3%		COARSE SAND: 24,1%	
MODE 2:	152,5	2,737	SAND: 92,6%		MEDIUM SAND: 21,6%	
MODE 3:	302,5	1,747	MUD: 0,1%		FINE SAND: 24,6%	
D_{10} :	137,0	-0,415			V FINE SAND: 3,7%	
MEDIAN or D_{50} :	500,1	1,000	V COARSE GRAVEL: 0,0%		V COARSE SILT: 0,0%	
D_{90} :	1333,1	2,867	COARSE GRAVEL: 0,0%		COARSE SILT: 0,0%	
(D_{90} / D_{10}) :	9,728	-6,914	MEDIUM GRAVEL: 0,0%		MEDIUM SILT: 0,0%	
$(D_{90} - D_{10})$:	1196,0	3,282	FINE GRAVEL: 0,0%		FINE SILT: 0,0%	
(D_{75} / D_{25}) :	5,941	#####	V FINE GRAVEL: 7,3%		V FINE SILT: 0,0%	
$(D_{75} - D_{25})$:	845,9	2,571	V COARSE SAND: 18,7%		CLAY: 0,0%	
	METHOD OF MOMENTS		FOLK & WARD METHOD			
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN (\bar{x}):	650,0	423,4	1,240	447,5	1,160	Medium Sand
SORTING (σ):	616,0	2,529	1,339	2,593	1,375	Poorly Sorted
SKEWNESS (S_k):	1,603	0,041	-0,041	-0,059	0,059	Symmetrical
KURTOSIS (K):	5,018	2,389	2,389	0,658	0,658	Very Platykurtic
						Setelah dibagi 1000
						0,448

SAMPLE STATISTICS						
SAMPLE IDENTITY: S2.3		ANALYST & DATE: ,				
SAMPLE TYPE: Polymodal, Poorly Sorted		TEXTURAL GROUP: Gravelly Sand				
SEDIMENT NAME: Very Fine Gravelly Medium Sand						
	μm	ϕ	GRAIN SIZE DISTRIBUTION			
MODE 1:	302,5	1,747	GRAVEL: 8,9%		COARSE SAND: 27,0%	
MODE 2:	605,0	0,747	SAND: 90,9%		MEDIUM SAND: 30,2%	
MODE 3:	1200,0	-0,243	MUD: 0,2%		FINE SAND: 12,5%	
D_{10} :	152,5	-0,457			V FINE SAND: 2,9%	
MEDIAN or D_{50} :	527,6	0,922	V COARSE GRAVEL: 0,0%		V COARSE SILT: 0,0%	
D_{90} :	1372,3	2,713	COARSE GRAVEL: 0,0%		COARSE SILT: 0,0%	
(D_{90} / D_{10}) :	8,998	-5,941	MEDIUM GRAVEL: 0,0%		MEDIUM SILT: 0,0%	
$(D_{90} - D_{10})$:	1219,8	3,170	FINE GRAVEL: 0,0%		FINE SILT: 0,0%	
(D_{75} / D_{25}) :	3,737	-31,894	V FINE GRAVEL: 8,9%		V FINE SILT: 0,0%	
$(D_{75} - D_{25})$:	762,3	1,902	V COARSE SAND: 18,3%		CLAY: 0,0%	
	METHOD OF MOMENTS		FOLK & WARD METHOD			
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN (\bar{x}):	708,9	485,9	1,041	545,9	0,873	Coarse Sand
SORTING (σ):	635,1	2,395	1,260	2,297	1,200	Poorly Sorted
SKEWNESS (S_k):	1,572	-0,139	0,139	0,048	-0,048	Symmetrical
KURTOSIS (K):	4,704	3,259	3,259	0,891	0,891	Platykurtic
						Setelah dibagi 1000
						0,546

SAMPLE STATISTICS						
SAMPLE IDENTITY: S3.1		ANALYST & DATE: ,				
SAMPLE TYPE: Polymodal, Poorly Sorted		TEXTURAL GROUP: Gravelly Sand				
SEDIMENT NAME: Very Fine Gravelly Fine Sand						
	μm	ϕ	GRAIN SIZE DISTRIBUTION			
MODE 1:	152,5	2,737	GRAVEL: 8,6%		COARSE SAND: 15,2%	
MODE 2:	302,5	1,747	SAND: 89,7%		MEDIUM SAND: 22,5%	
MODE 3:	605,0	0,747	MUD: 1,7%		FINE SAND: 28,1%	
D_{10} :	80,44	-0,427			V FINE SAND: 12,0%	
MEDIAN or D_{50} :	283,5	1,819	V COARSE GRAVEL: 0,0%		V COARSE SILT: 0,3%	
D_{90} :	1344,6	3,636	COARSE GRAVEL: 0,0%		COARSE SILT: 0,3%	
(D_{90} / D_{10}) :	16,71	-8,512	MEDIUM GRAVEL: 0,0%		MEDIUM SILT: 0,3%	
$(D_{90} - D_{10})$:	1264,1	4,063	FINE GRAVEL: 0,0%		FINE SILT: 0,3%	
(D_{75} / D_{25}) :	4,412	2,299	V FINE GRAVEL: 8,6%		V FINE SILT: 0,3%	
$(D_{75} - D_{25})$:	493,2	2,141	V COARSE SAND: 11,7%		CLAY: 0,3%	
	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic μm	Geometric μm	Logarithmic ϕ	Geometric μm	Logarithmic ϕ	Description
MEAN (\bar{x}):	560,0	305,0	1,713	345,6	1,533	Medium Sand
SORTING (σ):	658,7	3,067	1,617	2,928	1,550	Poorly Sorted
SKEWNESS (S_k):	1,843	-0,148	0,148	0,235	-0,235	Coarse Skewed
KURTOSIS (K):	5,423	3,554	3,554	0,967	0,967	Mesokurtic

Setelah dibagi 1000

0,346

SAMPLE STATISTICS						
SAMPLE IDENTITY: S3.2		ANALYST & DATE: ,				
SAMPLE TYPE: Polymodal, Poorly Sorted		TEXTURAL GROUP: Gravelly Sand				
SEDIMENT NAME: Very Fine Gravelly Fine Sand						
	μm	ϕ	GRAIN SIZE DISTRIBUTION			
MODE 1:	152,5	2,737	GRAVEL: 7,0%		COARSE SAND: 15,1%	
MODE 2:	302,5	1,747	SAND: 92,4%		MEDIUM SAND: 26,4%	
MODE 3:	605,0	0,747	MUD: 0,6%		FINE SAND: 31,1%	
D_{10} :	125,9	-0,354			V FINE SAND: 8,8%	
MEDIAN or D_{50} :	283,7	1,818	V COARSE GRAVEL: 0,0%		V COARSE SILT: 0,1%	
D_{90} :	1278,5	2,989	COARSE GRAVEL: 0,0%		COARSE SILT: 0,1%	
(D_{90} / D_{10}) :	10,15	-8,433	MEDIUM GRAVEL: 0,0%		MEDIUM SILT: 0,1%	
$(D_{90} - D_{10})$:	1152,6	3,344	FINE GRAVEL: 0,0%		FINE SILT: 0,1%	
(D_{75} / D_{25}) :	4,022	3,759	V FINE GRAVEL: 7,0%		V FINE SILT: 0,1%	
$(D_{75} - D_{25})$:	453,7	2,008	V COARSE SAND: 11,0%		CLAY: 0,1%	
	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic μm	Geometric μm	Logarithmic ϕ	Geometric μm	Logarithmic ϕ	Description
MEAN (\bar{x}):	526,3	312,3	1,679	344,2	1,539	Medium Sand
SORTING (σ):	611,3	2,675	1,420	2,794	1,482	Poorly Sorted
SKEWNESS (S_k):	2,051	0,242	-0,242	0,248	-0,248	Coarse Skewed
KURTOSIS (K):	6,448	3,233	3,233	0,994	0,994	Mesokurtic

Setelah dibagi 1000

0,344

SAMPLE STATISTICS						
SAMPLE IDENTITY: S3.3		ANALYST & DATE: ,				
SAMPLE TYPE: Polymodal, Poorly Sorted		TEXTURAL GROUP: Gravelly Sand				
SEDIMENT NAME: Very Fine Gravelly Fine Sand						
	μm	ϕ	GRAIN SIZE DISTRIBUTION			
MODE 1:	152,5	2,737	GRAVEL: 10,7%		COARSE SAND: 14,9%	
MODE 2:	302,5	1,747	SAND: 88,8%		MEDIUM SAND: 22,6%	
MODE 3:	605,0	0,747	MUD: 0,5%		FINE SAND: 28,2%	
D_{10} :	126,0	-1,034			V FINE SAND: 8,9%	
MEDIAN or D_{50} :	303,0	1,723	V COARSE GRAVEL: 0,0%		V COARSE SILT: 0,1%	
D_{90} :	2047,4	2,989	COARSE GRAVEL: 0,0%		COARSE SILT: 0,1%	
(D_{90} / D_{10}) :	16,25	-2,891	MEDIUM GRAVEL: 0,0%		MEDIUM SILT: 0,1%	
$(D_{90} - D_{10})$:	1921,5	4,023	FINE GRAVEL: 0,0%		FINE SILT: 0,1%	
(D_{75} / D_{25}) :	4,625	5,424	V FINE GRAVEL: 10,7%		V FINE SILT: 0,1%	
$(D_{75} - D_{25})$:	554,4	2,209	V COARSE SAND: 14,1%		CLAY: 0,1%	
	METHOD OF MOMENTS			FOLK & WARD METHOD		
	Arithmetic μm	Geometric μm	Logarithmic ϕ	Geometric μm	Logarithmic ϕ	Description
MEAN (\bar{x}):	635,9	359,2	1,477	370,7	1,432	Medium Sand
SORTING (σ):	707,2	2,896	1,534	2,930	1,551	Poorly Sorted
SKEWNESS (S_k):	1,579	0,152	-0,152	0,235	-0,235	Coarse Skewed
KURTOSIS (K):	4,328	2,631	2,631	0,925	0,925	Mesokurtic

Setelah dibagi 1000

0,371

SAMPLE STATISTICS

SAMPLE IDENTITY: **S4.1** ANALYST & DATE: ,
 SAMPLE TYPE: Polymodal, Poorly Sorted TEXTURAL GROUP: Slightly Gravelly Sand
 SEDIMENT NAME: Slightly Very Fine Gravelly Fine Sand

	μm ϕ		GRAIN SIZE DISTRIBUTION			
	μm	ϕ				
MODE 1:	152,5	2,737	GRAVEL: 5,0%	COARSE SAND: 17,0%		
MODE 2:	302,5	1,747	SAND: 93,6%	MEDIUM SAND: 25,9%		
MODE 3:	605,0	0,747	MUD: 1,4%	FINE SAND: 29,3%		
D_{10} :	81,98	-0,235		V FINE SAND: 11,7%		
MEDIAN or D_{50} :	277,2	1,851	V COARSE GRAVEL: 0,0%	V COARSE SILT: 0,2%		
D_{90} :	1176,9	3,609	COARSE GRAVEL: 0,0%	COARSE SILT: 0,2%		
(D_{90} / D_{10}) :	14,35	-15,359	MEDIUM GRAVEL: 0,0%	MEDIUM SILT: 0,2%		
$(D_{90} - D_{10})$:	1094,9	3,843	FINE GRAVEL: 0,0%	FINE SILT: 0,2%		
(D_{75} / D_{25}) :	3,962	3,485	V FINE GRAVEL: 5,0%	V FINE SILT: 0,2%		
$(D_{75} - D_{25})$:	429,6	1,986	V COARSE SAND: 9,7%	CLAY: 0,2%		
	METHOD OF MOMENTS		FOLK & WARD METHOD			
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN (\bar{x}):	471,7	281,5	1,829	291,8	1,777	Medium Sand
SORTING (σ):	545,8	2,746	1,457	2,390	1,257	Poorly Sorted
SKEWNESS (S_k):	2,310	-0,135	0,135	0,087	-0,087	Symmetrical
KURTOSIS (K):	8,137	4,012	4,012	0,890	0,890	Platykurtic

Setelah dibagi 1000

0,292

SAMPLE STATISTICS

SAMPLE IDENTITY: **S4.2** ANALYST & DATE: ,
 SAMPLE TYPE: Polymodal, Poorly Sorted TEXTURAL GROUP: Gravelly Sand
 SEDIMENT NAME: Very Fine Gravelly Medium Sand

	μm ϕ		GRAIN SIZE DISTRIBUTION			
	μm	ϕ				
MODE 1:	302,5	1,747	GRAVEL: 7,5%	COARSE SAND: 12,6%		
MODE 2:	152,5	2,737	SAND: 91,6%	MEDIUM SAND: 32,9%		
MODE 3:	605,0	0,747	MUD: 0,9%	FINE SAND: 29,1%		
D_{10} :	89,48	-0,329		V FINE SAND: 9,3%		
MEDIAN or D_{50} :	280,3	1,835	V COARSE GRAVEL: 0,0%	V COARSE SILT: 0,1%		
D_{90} :	1256,3	3,482	COARSE GRAVEL: 0,0%	COARSE SILT: 0,1%		
(D_{90} / D_{10}) :	14,04	-10,580	MEDIUM GRAVEL: 0,0%	MEDIUM SILT: 0,1%		
$(D_{90} - D_{10})$:	1166,8	3,811	FINE GRAVEL: 0,0%	FINE SILT: 0,1%		
(D_{75} / D_{25}) :	3,594	3,082	V FINE GRAVEL: 7,5%	V FINE SILT: 0,1%		
$(D_{75} - D_{25})$:	390,4	1,845	V COARSE SAND: 7,7%	CLAY: 0,1%		
	METHOD OF MOMENTS		FOLK & WARD METHOD			
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN (\bar{x}):	500,5	295,1	1,761	297,0	1,752	Medium Sand
SORTING (σ):	614,1	2,659	1,411	2,528	1,338	Poorly Sorted
SKEWNESS (S_k):	2,241	0,206	-0,206	0,162	-0,162	Coarse Skewed
KURTOSIS (K):	7,070	3,934	3,934	1,093	1,093	Mesokurtic

Setelah dibagi 1000

0,297

SAMPLE STATISTICS

SAMPLE IDENTITY: **S4.3** ANALYST & DATE: ,
 SAMPLE TYPE: Polymodal, Poorly Sorted TEXTURAL GROUP: Gravelly Sand
 SEDIMENT NAME: Very Fine Gravelly Fine Sand

	μm ϕ		GRAIN SIZE DISTRIBUTION			
	μm	ϕ				
MODE 1:	152,5	2,737	GRAVEL: 5,8%	COARSE SAND: 21,0%		
MODE 2:	302,5	1,747	SAND: 94,0%	MEDIUM SAND: 25,8%		
MODE 3:	605,0	0,747	MUD: 0,2%	FINE SAND: 28,8%		
D_{10} :	135,1	-0,347		V FINE SAND: 3,7%		
MEDIAN or D_{50} :	316,3	1,660	V COARSE GRAVEL: 0,0%	V COARSE SILT: 0,0%		
D_{90} :	1271,7	2,888	COARSE GRAVEL: 0,0%	COARSE SILT: 0,0%		
(D_{90} / D_{10}) :	9,415	-8,329	MEDIUM GRAVEL: 0,0%	MEDIUM SILT: 0,0%		
$(D_{90} - D_{10})$:	1136,6	3,235	FINE GRAVEL: 0,0%	FINE SILT: 0,0%		
(D_{75} / D_{25}) :	4,036	4,347	V FINE GRAVEL: 5,8%	V FINE SILT: 0,0%		
$(D_{75} - D_{25})$:	495,8	2,013	V COARSE SAND: 14,8%	CLAY: 0,0%		
	METHOD OF MOMENTS		FOLK & WARD METHOD			
	Arithmetic	Geometric	Logarithmic	Geometric	Logarithmic	Description
	μm	μm	ϕ	μm	ϕ	
MEAN (\bar{x}):	567,7	369,0	1,438	371,2	1,430	Medium Sand
SORTING (σ):	575,0	2,464	1,301	2,540	1,345	Poorly Sorted
SKEWNESS (S_k):	1,908	0,227	-0,227	0,292	-0,292	Coarse Skewed
KURTOSIS (K):	6,286	2,700	2,700	0,824	0,824	Platykurtic

Setelah dibagi 1000

0,371

SAMPLE STATISTICS						
SAMPLE IDENTITY: S5.1		ANALYST & DATE: ,				
SAMPLE TYPE: Polymodal, Poorly Sorted		TEXTURAL GROUP: Slightly Gravelly Sand				
SEDIMENT NAME: Slightly Very Fine Gravelly Medium Sand						
	μm	ϕ	GRAIN SIZE DISTRIBUTION			
MODE 1:	302,5	1,747	GRAVEL: 0,9%		COARSE SAND: 23,4%	
MODE 2:	152,5	2,737	SAND: 98,7%		MEDIUM SAND: 32,7%	
MODE 3:	605,0	0,747	MUD: 0,4%		FINE SAND: 29,7%	
D_{10} :	131,4	0,532			V FINE SAND: 5,5%	
MEDIAN or D_{50} :	291,7	1,777	V COARSE GRAVEL: 0,0%		V COARSE SILT: 0,1%	
D_{90} :	691,8	2,928	COARSE GRAVEL: 0,0%		COARSE SILT: 0,1%	
(D_{90} / D_{10}) :	5,264	5,508	MEDIUM GRAVEL: 0,0%		MEDIUM SILT: 0,1%	
$(D_{90} - D_{10})$:	560,4	2,396	FINE GRAVEL: 0,0%		FINE SILT: 0,1%	
(D_{75} / D_{25}) :	3,498	3,112	V FINE GRAVEL: 0,9%		V FINE SILT: 0,1%	
$(D_{75} - D_{25})$:	394,7	1,807	V COARSE SAND: 7,4%		CLAY: 0,1%	
	METHOD OF MOMENTS		FOLK & WARD METHOD			Description
	Arithmetic μm	Geometric μm	Logarithmic ϕ	Geometric μm	Logarithmic ϕ	
MEAN (\bar{x}):	400,2	294,3	1,765	296,6	1,753	Medium Sand
SORTING (σ):	347,3	2,158	1,109	2,162	1,112	Poorly Sorted
SKEWNESS (S_k):	2,502	-0,156	0,156	0,044	-0,044	Symmetrical
KURTOSIS (K):	12,12	4,264	4,264	0,857	0,857	Platykurtic

Setelah dibagi 1000

0,297

SAMPLE STATISTICS						
SAMPLE IDENTITY: S5.2		ANALYST & DATE: ,				
SAMPLE TYPE: Trimodal, Moderately Sorted		TEXTURAL GROUP: Slightly Gravelly Sand				
SEDIMENT NAME: Slightly Very Fine Gravelly Medium Sand						
	μm	ϕ	GRAIN SIZE DISTRIBUTION			
MODE 1:	302,5	1,747	GRAVEL: 0,4%		COARSE SAND: 15,8%	
MODE 2:	152,5	2,737	SAND: 99,2%		MEDIUM SAND: 39,8%	
MODE 3:	605,0	0,747	MUD: 0,4%		FINE SAND: 35,1%	
D_{10} :	130,9	0,697			V FINE SAND: 5,1%	
MEDIAN or D_{50} :	271,3	1,882	V COARSE GRAVEL: 0,0%		V COARSE SILT: 0,1%	
D_{90} :	616,7	2,934	COARSE GRAVEL: 0,0%		COARSE SILT: 0,1%	
(D_{90} / D_{10}) :	4,712	4,207	MEDIUM GRAVEL: 0,0%		MEDIUM SILT: 0,1%	
$(D_{90} - D_{10})$:	485,8	2,236	FINE GRAVEL: 0,0%		FINE SILT: 0,1%	
(D_{75} / D_{25}) :	2,211	1,732	V FINE GRAVEL: 0,4%		V FINE SILT: 0,1%	
$(D_{75} - D_{25})$:	185,2	1,145	V COARSE SAND: 3,2%		CLAY: 0,1%	
	METHOD OF MOMENTS		FOLK & WARD METHOD			Description
	Arithmetic μm	Geometric μm	Logarithmic ϕ	Geometric μm	Logarithmic ϕ	
MEAN (\bar{x}):	322,6	252,8	1,984	273,3	1,872	Medium Sand
SORTING (σ):	263,4	1,950	0,964	1,921	0,942	Moderately Sorted
SKEWNESS (S_k):	3,310	-0,164	0,164	-0,043	0,043	Symmetrical
KURTOSIS (K):	20,59	5,606	5,606	1,071	1,071	Mesokurtic

Setelah dibagi 1000

0,273

SAMPLE STATISTICS						
SAMPLE IDENTITY: S5.3		ANALYST & DATE: ,				
SAMPLE TYPE: Polymodal, Poorly Sorted		TEXTURAL GROUP: Slightly Gravelly Sand				
SEDIMENT NAME: Slightly Very Fine Gravelly Medium Sand						
	μm	ϕ	GRAIN SIZE DISTRIBUTION			
MODE 1:	302,5	1,747	GRAVEL: 1,1%		COARSE SAND: 17,9%	
MODE 2:	152,5	2,737	SAND: 94,9%		MEDIUM SAND: 32,9%	
MODE 3:	605,0	0,747	MUD: 4,0%		FINE SAND: 32,4%	
D_{10} :	127,9	0,526			V FINE SAND: 3,9%	
MEDIAN or D_{50} :	277,2	1,851	V COARSE GRAVEL: 0,0%		V COARSE SILT: 0,7%	
D_{90} :	694,5	2,967	COARSE GRAVEL: 0,0%		COARSE SILT: 0,7%	
(D_{90} / D_{10}) :	5,429	5,641	MEDIUM GRAVEL: 0,0%		MEDIUM SILT: 0,7%	
$(D_{90} - D_{10})$:	566,6	2,441	FINE GRAVEL: 0,0%		FINE SILT: 0,7%	
(D_{75} / D_{25}) :	3,420	2,869	V FINE GRAVEL: 1,1%		V FINE SILT: 0,7%	
$(D_{75} - D_{25})$:	366,5	1,774	V COARSE SAND: 7,8%		CLAY: 0,7%	
	METHOD OF MOMENTS		FOLK & WARD METHOD			Description
	Arithmetic μm	Geometric μm	Logarithmic ϕ	Geometric μm	Logarithmic ϕ	
MEAN (\bar{x}):	380,9	251,7	1,990	286,2	1,805	Medium Sand
SORTING (σ):	363,5	2,735	1,452	2,243	1,165	Poorly Sorted
SKEWNESS (S_k):	2,614	-1,250	1,250	0,041	-0,041	Symmetrical
KURTOSIS (K):	12,26	6,601	6,601	0,948	0,948	Mesokurtic

Setelah dibagi 1000

0,286

SAMPLE STATISTICS						
SAMPLE IDENTITY: S6.1		ANALYST & DATE: ,				
SAMPLE TYPE: Polymodal, Moderately Sorted		TEXTURAL GROUP: Slightly Gravelly Sand				
SEDIMENT NAME: Slightly Very Fine Gravelly Medium Sand						
	μm	ϕ	GRAIN SIZE DISTRIBUTION			
MODE 1:	302,5	1,747	GRAVEL: 1,6%		COARSE SAND: 31,7%	
MODE 2:	605,0	0,747	SAND: 98,0%		MEDIUM SAND: 41,7%	
MODE 3:	152,5	2,737	MUD: 0,4%		FINE SAND: 14,0%	
D ₁₀ :	154,9	-0,046			V FINE SAND: 1,3%	
MEDIAN or D ₅₀ :	333,5	1,584	V COARSE GRAVEL: 0,0%		V COARSE SILT: 0,1%	
D ₉₀ :	1032,7	2,690	COARSE GRAVEL: 0,0%		COARSE SILT: 0,1%	
(D ₉₀ / D ₁₀):	6,666	-57,918	MEDIUM GRAVEL: 0,0%		MEDIUM SILT: 0,1%	
(D ₉₀ - D ₁₀):	877,8	2,737	FINE GRAVEL: 0,0%		FINE SILT: 0,1%	
(D ₇₅ / D ₂₅):	2,248	2,624	V FINE GRAVEL: 1,6%		V FINE SILT: 0,1%	
(D ₇₅ - D ₂₅):	337,1	1,168	V COARSE SAND: 9,3%		CLAY: 0,1%	
	METHOD OF MOMENTS		FOLK & WARD METHOD			Setelah dibagi 1000
	Arithmetic μm	Geometric μm	Logarithmic ϕ	Geometric μm	Logarithmic ϕ	Description
MEAN (\bar{x}):	489,7	382,8	1,385	382,7	1,386	Medium Sand
SORTING (σ):	376,8	2,001	1,001	1,787	0,838	Moderately Sorted
SKEWNESS (S_k):	2,493	-0,520	0,520	0,303	-0,303	Very Coarse Skewed
KURTOSIS (K):	11,64	6,523	6,523	1,117	1,117	Leptokurtic
						0,383

SAMPLE STATISTICS						
SAMPLE IDENTITY: S6.2		ANALYST & DATE: ,				
SAMPLE TYPE: Polymodal, Poorly Sorted		TEXTURAL GROUP: Slightly Gravelly Sand				
SEDIMENT NAME: Slightly Very Fine Gravelly Medium Sand						
	μm	ϕ	GRAIN SIZE DISTRIBUTION			
MODE 1:	302,5	1,747	GRAVEL: 2,8%		COARSE SAND: 32,2%	
MODE 2:	605,0	0,747	SAND: 97,0%		MEDIUM SAND: 35,7%	
MODE 3:	152,5	2,737	MUD: 0,2%		FINE SAND: 14,2%	
D ₁₀ :	151,1	-0,208			V FINE SAND: 2,4%	
MEDIAN or D ₅₀ :	346,5	1,529	V COARSE GRAVEL: 0,0%		V COARSE SILT: 0,0%	
D ₉₀ :	1155,0	2,726	COARSE GRAVEL: 0,0%		COARSE SILT: 0,0%	
(D ₉₀ / D ₁₀):	7,644	-13,117	MEDIUM GRAVEL: 0,0%		MEDIUM SILT: 0,0%	
(D ₉₀ - D ₁₀):	1003,9	2,934	FINE GRAVEL: 0,0%		FINE SILT: 0,0%	
(D ₇₅ / D ₂₅):	2,359	2,919	V FINE GRAVEL: 2,8%		V FINE SILT: 0,0%	
(D ₇₅ - D ₂₅):	368,4	1,238	V COARSE SAND: 12,6%		CLAY: 0,0%	
	METHOD OF MOMENTS		FOLK & WARD METHOD			Setelah dibagi 1000
	Arithmetic μm	Geometric μm	Logarithmic ϕ	Geometric μm	Logarithmic ϕ	Description
MEAN (\bar{x}):	544,2	408,4	1,292	350,6	1,512	Medium Sand
SORTING (σ):	447,3	2,113	1,079	2,003	1,002	Poorly Sorted
SKEWNESS (S_k):	2,212	-0,245	0,245	0,095	-0,095	Symmetrical
KURTOSIS (K):	9,011	4,419	4,419	1,096	1,096	Mesokurtic
						0,351

SAMPLE STATISTICS						
SAMPLE IDENTITY: S6.3		ANALYST & DATE: ,				
SAMPLE TYPE: Polymodal, Poorly Sorted		TEXTURAL GROUP: Gravelly Sand				
SEDIMENT NAME: Very Fine Gravelly Medium Sand						
	μm	ϕ	GRAIN SIZE DISTRIBUTION			
MODE 1:	302,5	1,747	GRAVEL: 5,9%		COARSE SAND: 10,7%	
MODE 2:	152,5	2,737	SAND: 92,9%		MEDIUM SAND: 43,2%	
MODE 3:	76,50	3,731	MUD: 1,2%		FINE SAND: 22,4%	
D ₁₀ :	83,59	-0,120			V FINE SAND: 11,1%	
MEDIAN or D ₅₀ :	283,0	1,821	V COARSE GRAVEL: 0,0%		V COARSE SILT: 0,2%	
D ₉₀ :	1086,5	3,580	COARSE GRAVEL: 0,0%		COARSE SILT: 0,2%	
(D ₉₀ / D ₁₀):	13,00	-29,909	MEDIUM GRAVEL: 0,0%		MEDIUM SILT: 0,2%	
(D ₉₀ - D ₁₀):	1002,9	3,700	FINE GRAVEL: 0,0%		FINE SILT: 0,2%	
(D ₇₅ / D ₂₅):	2,255	1,768	V FINE GRAVEL: 5,9%		V FINE SILT: 0,2%	
(D ₇₅ - D ₂₅):	193,0	1,173	V COARSE SAND: 5,4%		CLAY: 0,2%	
	METHOD OF MOMENTS		FOLK & WARD METHOD			Setelah dibagi 1000
	Arithmetic μm	Geometric μm	Logarithmic ϕ	Geometric μm	Logarithmic ϕ	Description
MEAN (\bar{x}):	445,7	275,5	1,860	284,0	1,816	Medium Sand
SORTING (σ):	551,8	2,550	1,350	2,446	1,290	Poorly Sorted
SKEWNESS (S_k):	2,685	-0,032	0,032	0,096	-0,096	Symmetrical
KURTOSIS (K):	9,527	4,962	4,962	1,707	1,707	Very Leptokurtic
						0,284

Lampiran 3. Hasil Analisis PCA

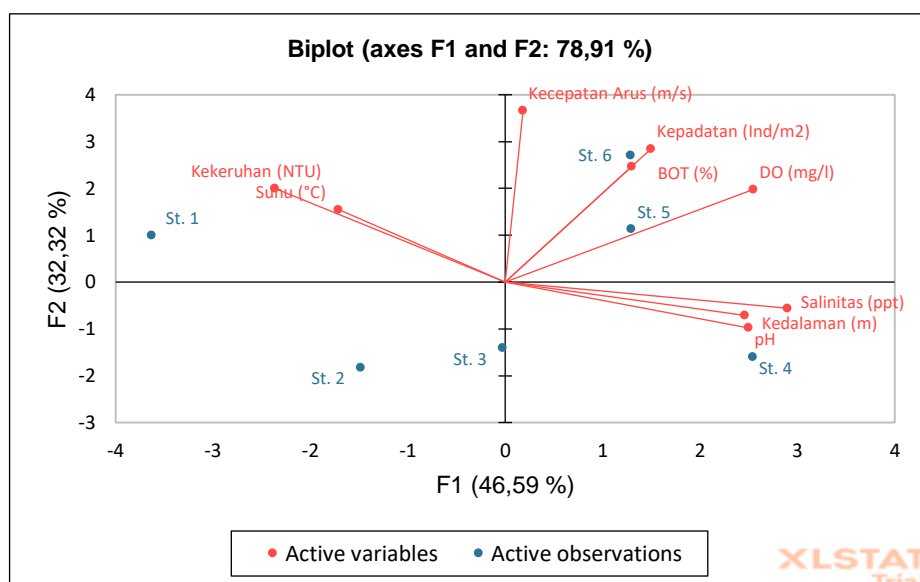
Summary statistics:

Variable	Observations	Obs. with missing data	Obs. without missing data	Minimum	Maximum	Mean	Std. deviation
Suhu (°C)	6	0	6	31,000	32,000	31,833	0,408
Salinitas (ppt)	6	0	6	27,670	35,670	33,225	2,964
Kecepatan Arus (m/s)	6	0	6	0,035	0,179	0,095	0,057
pH	6	0	6	7,530	7,790	7,712	0,093
Kekeruhan (NTU)	6	0	6	2,630	8,580	4,712	2,232
BOT (%)	6	0	6	1,600	5,400	3,483	1,251
DO (mg/l)	6	0	6	3,900	4,600	4,200	0,303
Kedalaman (m)	6	0	6	1,800	10,600	4,742	3,203
Kepadatan (Ind/m2)	6	0	6	0,000	88,227	23,895	33,752

Principal Component Analysis:

Eigenvalues:

	F1	F2	F3	F4	F5
Eigenvalue	4,193	2,909	1,245	0,600	0,053
Variability (%)	46,586	32,321	13,834	6,672	0,587
Cumulative %	46,586	78,907	92,741	99,413	100,000



Lampiran 4. Dokumentasi Pengambilan dan Analisis Sampel





