

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

This appendix contains complete data tables and figures showing the results for particle size analysis and characterisation of the Gordano Valley sediments. The particle size data for the Gordano Valley sediments are summarised in Tables III.A to III.H; distribution curve modes are summarised in Tables III.J to III.R; textural characteristics for the sediments are summarised in Tables III.S to III.Z. Particle size distribution histograms illustrating the modal characteristics of the sediments are provided in Figures III.A to III.H.

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

Particle size data

Table III.A: Particle size data for core GV

Size class	Phi (ϕ)	GV1	GV2	GV3	GV4	GV5	GV6	GV7	GV8	GV9	GV10	GV11
% Very coarse gravel	<-5	0.00	0.00	0.00	0.00	68.65	0.00	0.00	0.00	0.00	0.00	0.00
% Coarse gravel	-5 to -4	3.35	22.69	47.07	73.37	0.00	0.00	0.00	0.00	0.00	0.00	56.25
% Medium gravel	-4 to -3	0.00	0.00	24.40	11.93	3.36	0.00	0.00	9.02	3.38	10.43	8.59
% Fine gravel	-3 to -2	2.66	2.38	17.23	1.78	3.15	2.16	0.00	5.76	2.83	8.20	17.90
% Very fine gravel	-2 to -1	3.48	7.09	3.80	1.03	2.16	0.38	0.05	4.78	2.28	5.65	14.95
% Very coarse sand	-1 to 0	0.45	0.26	0.03	0.44	1.13	0.39	0.23	0.70	4.69	5.19	0.69
% Coarse sand	0 to 1	0.82	0.40	0.04	1.00	1.94	4.24	1.03	1.58	15.23	3.63	0.44
% Medium sand	1 to 2	5.21	1.87	0.21	3.77	4.55	25.12	7.65	4.84	21.08	20.24	0.25
% Fine sand	2 to 3	4.75	2.46	0.27	1.22	4.20	24.14	8.45	6.15	4.69	22.49	0.00
% Very fine sand	3 to 4	3.75	5.13	0.57	0.33	1.59	11.33	9.93	7.64	0.00	9.51	0.00
% Very coarse silt	4 to 5	2.39	1.53	0.28	0.45	0.66	2.28	8.59	6.30	12.54	1.53	0.10
% Coarse silt	5 to 6	14.52	12.11	0.87	1.45	2.19	8.06	21.49	17.77	14.72	4.54	0.20
% Medium silt	6 to 7	29.70	23.21	1.06	1.81	3.59	11.44	26.89	23.15	9.88	5.07	0.17
% Fine silt	7 to 8	18.38	14.01	0.52	0.87	1.66	4.60	11.00	9.27	3.68	2.22	0.70
% Clay	>8	8.43	5.96	0.29	0.44	0.71	1.80	4.54	3.64	1.49	1.14	0.03
% Gravel		9.49	32.16	92.50	88.11	77.32	2.54	0.05	19.56	8.49	24.28	97.69
% Sand		14.98	10.12	1.12	6.76	13.41	65.22	27.29	20.91	45.69	61.06	1.38
% Silt		64.99	50.86	2.73	4.58	8.10	26.38	67.97	56.49	40.82	13.36	1.17
% Clay		8.43	5.96	0.29	0.44	0.71	1.80	4.54	3.64	1.49	1.14	0.03
Method of Moments (Logarithmic ϕ)	Mean	5.142	2.942	-3.343	-3.351	-3.207	3.265	5.233	3.732	2.786	1.455	-3.404
	Sorting	3.273	4.880	2.090	2.742	3.945	2.320	2.008	3.674	2.951	2.976	1.672
	Skewness	-1.435	-0.559	3.601	2.739	1.540	0.380	-0.459	-0.811	-0.091	0.044	3.069
	Kurtosis	4.380	1.642	17.36	9.664	4.004	2.890	2.574	2.381	2.197	2.586	18.48
Method of Moments >4 ϕ (Logarithmic ϕ)	Mean	6.777	6.745	6.445	6.428	6.496	6.379	6.278	6.302	5.738	6.328	6.017
	Sorting	1.101	1.075	1.190	1.167	1.112	1.073	1.121	1.102	1.120	1.158	1.124
	Skewness	0.402	0.465	0.517	0.520	0.446	0.521	0.516	0.516	0.875	0.585	0.685
	Kurtosis	2.864	2.934	2.877	2.957	3.104	3.319	3.169	3.220	3.537	3.081	3.309
Median particle size (ϕ)		3.255	5.474	-3.949	-4.312	-5.259	2.650	5.651	5.199	1.941	1.831	-4.106

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

Table III.B: Particle size data for core PG

Size class	Phi (ϕ)	PG1	PG2	PG3	PG4	PG5	PG6	PG7	PG8
% Very coarse gravel	<-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Coarse gravel	-5 to -4	0.00	0.00	0.00	10.85	2.85	28.06	3.81	0.00
% Medium gravel	-4 to -3	4.00	2.09	3.20	3.79	8.60	1.78	14.55	8.39
% Fine gravel	-3 to -2	4.30	3.06	4.94	4.80	2.52	1.44	13.49	8.42
% Very fine gravel	-2 to -1	4.65	2.92	5.80	2.78	4.02	1.46	6.21	6.71
% Very coarse sand	-1 to 0	1.83	2.46	1.90	1.59	1.72	0.37	2.47	2.03
% Coarse sand	0 to 1	2.87	1.85	2.60	4.15	2.30	0.82	5.16	5.43
% Medium sand	1 to 2	17.20	8.82	10.91	23.63	9.56	3.57	19.52	20.97
% Fine sand	2 to 3	21.33	11.48	9.31	15.78	9.85	4.24	11.37	15.27
% Very fine sand	3 to 4	11.24	7.28	5.21	5.82	5.74	6.32	6.95	9.01
% Very coarse silt	4 to 5	4.32	9.56	7.98	4.00	5.42	7.44	1.97	2.47
% Coarse silt	5 to 6	11.12	20.25	17.76	9.24	15.60	18.37	5.78	9.13
% Medium silt	6 to 7	10.86	19.91	19.13	8.93	19.84	17.05	5.31	8.11
% Fine silt	7 to 8	4.26	7.37	7.67	3.29	8.33	6.41	2.03	2.77
% Clay	>8	1.93	2.95	3.28	1.37	3.66	2.68	0.84	1.11
% Gravel		12.95	8.07	13.94	22.22	17.99	32.74	38.06	23.52
% Sand		54.47	31.89	24.72	50.97	29.17	15.32	45.47	52.71
% Silt		30.56	57.09	57.75	25.46	49.19	49.27	15.09	22.48
% Clay		1.93	2.95	3.28	1.37	3.66	2.68	0.84	1.11
Method of Moments (Logarithmic ϕ)	Mean	2.879	4.133	3.720	1.822	3.386	2.177	0.706	1.875
	Sorting	2.911	2.872	3.252	3.503	3.714	4.734	3.366	3.147
	Skewness	-0.267	-0.825	-0.635	-0.286	-0.670	-0.462	0.260	-0.029
	Kurtosis	2.701	3.116	2.420	2.363	2.337	1.545	2.129	2.260
Method of Moments >4 ϕ (Logarithmic ϕ)	Mean	6.175	6.093	6.182	6.112	6.334	6.116	6.154	6.143
	Sorting	1.124	1.110	1.137	1.107	1.123	1.104	1.090	1.041
	Skewness	0.645	0.620	0.580	0.641	0.530	0.661	0.678	0.740
	Kurtosis	3.289	3.303	3.169	3.347	3.163	3.374	3.427	3.688
Median particle size (ϕ)		2.708	5.024	4.746	1.933	4.519	4.253	1.207	1.903

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Table III.C: Particle size data for core PGA

Size class	Phi (ϕ)	PGA1	PGA2	PGA3	PGA4	PGA5	PGA6	PGA7	PGA8	PGA9
% Very coarse gravel	<-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Coarse gravel	-5 to -4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Medium gravel	-4 to -3	0.00	2.69	11.90	0.00	0.00	0.00	6.70	0.00	4.88
% Fine gravel	-3 to -2	5.82	11.34	8.29	0.39	0.64	0.00	5.66	8.95	4.17
% Very fine gravel	-2 to -1	19.45	18.63	10.99	1.55	1.41	0.38	6.22	8.32	4.35
% Very coarse sand	-1 to 0	12.61	25.36	4.93	2.30	0.26	0.22	2.74	4.24	7.51
% Coarse sand	0 to 1	14.05	8.34	7.74	8.24	0.70	1.10	2.65	4.34	3.36
% Medium sand	1 to 2	14.23	6.65	13.84	16.81	1.83	6.69	12.80	19.45	8.89
% Fine sand	2 to 3	20.17	7.29	11.57	15.71	2.61	12.62	16.45	23.69	10.07
% Very fine sand	3 to 4	3.78	3.72	5.94	13.74	8.18	14.93	10.79	9.31	7.11
% Very coarse silt	4 to 5	1.57	2.12	2.97	3.77	10.39	6.87	3.94	2.25	5.38
% Coarse silt	5 to 6	3.53	5.51	7.64	12.87	29.21	22.01	12.32	7.96	15.63
% Medium silt	6 to 7	2.99	5.35	9.18	15.86	28.97	22.34	12.43	7.27	18.36
% Fine silt	7 to 8	1.15	2.02	3.47	6.10	11.31	8.65	4.81	2.66	6.94
% Clay	>8	0.47	0.73	1.31	2.33	4.50	3.96	2.12	1.11	2.63
% Gravel		25.27	32.66	31.18	1.94	2.05	0.38	18.58	17.27	13.40
% Sand		64.84	51.36	44.02	56.80	13.58	35.56	45.43	61.03	36.94
% Silt		9.24	15.00	23.26	38.60	79.88	59.87	33.50	20.14	46.31
% Clay		0.47	0.73	1.31	2.33	4.50	3.96	2.12	1.11	2.63
Method of Moments (Logarithmic ϕ)	Mean	1.009	0.635	1.462	3.709	5.553	4.924	2.735	2.182	3.349
	Sorting	2.362	2.881	3.422	2.470	1.902	2.036	3.278	2.729	3.352
	Skewness	0.728	0.962	0.212	0.087	-1.404	-0.259	-0.304	0.116	0.471
	Kurtosis	3.314	2.994	1.996	2.133	6.628	2.493	2.239	2.570	2.145
Method of Moments >4 ϕ (Logarithmic ϕ)	Mean	6.054	6.129	6.296	6.296	6.179	6.234	6.221	6.174	6.248
	Sorting	1.106	1.080	1.067	1.067	1.093	1.105	1.100	1.065	1.086
	Skewness	0.690	0.616	0.565	0.565	0.627	0.658	0.651	0.715	0.570
	Kurtosis	3.388	3.379	3.379	3.379	3.350	3.352	3.363	3.551	3.338
Median particle size (ϕ)		0.856	-0.321	1.436	3.348	5.821	5.321	2.793	2.189	6.983

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Table III.C (continued): Particle size data for core PGA

Size class	Phi (ϕ)	PGA10	PGA11	PGA12	PGA13	PGA14	PGA15	PGA16	PGA17
% Very coarse gravel	<-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Coarse gravel	-5 to -4	0.00	0.00	0.00	0.00	6.36	0.00	0.00	0.00
% Medium gravel	-4 to -3	0.68	4.71	4.25	0.00	9.00	0.00	0.00	0.00
% Fine gravel	-3 to -2	0.89	3.68	5.20	3.98	9.82	0.12	0.33	0.00
% Very fine gravel	-2 to -1	1.53	1.32	8.60	8.58	6.24	0.43	1.95	0.74
% Very coarse sand	-1 to 0	1.46	0.81	0.65	0.38	1.92	0.11	0.71	1.64
% Coarse sand	0 to 1	1.57	1.63	1.75	0.86	3.29	1.38	5.06	7.93
% Medium sand	1 to 2	5.95	7.83	7.00	2.87	17.77	37.28	52.53	48.06
% Fine sand	2 to 3	7.07	9.15	11.50	5.36	15.61	47.36	29.05	32.43
% Very fine sand	3 to 4	5.39	6.51	7.74	8.32	7.61	6.58	3.34	4.29
% Very coarse silt	4 to 5	6.81	8.07	5.89	8.40	2.37	0.88	0.80	0.45
% Coarse silt	5 to 6	23.59	19.36	16.31	23.76	7.78	2.15	1.90	1.29
% Medium silt	6 to 7	28.44	23.23	19.50	24.27	7.86	2.12	2.28	1.28
% Fine silt	7 to 8	11.73	9.38	8.19	9.30	3.01	0.83	0.88	0.50
% Clay	>8	4.89	4.11	3.15	3.91	1.21	0.35	0.36	0.21
% Gravel		3.10	9.71	18.05	12.56	31.42	0.55	2.28	0.74
% Sand		21.44	25.93	28.64	17.79	46.20	92.71	90.69	94.35
% Silt		70.57	60.04	49.89	65.73	21.02	5.98	5.86	3.52
% Clay		4.89	4.11	3.15	3.91	1.21	0.35	0.36	0.21
Method of Moments (Logarithmic ϕ)	Mean	5.158	4.321	3.597	4.553	1.372	2.369	2.019	1.956
	Sorting	2.428	3.111	3.392	2.943	3.524	1.230	1.394	1.176
	Skewness	-1.168	-1.034	-0.627	-1.086	-0.012	2.007	1.586	1.745
	Kurtosis	4.340	3.420	2.304	3.305	2.055	10.12	9.030	10.51
Method of Moments >4 ϕ (Logarithmic ϕ)	Mean	6.328	6.256	6.277	6.195	6.212	6.155	6.201	6.189
	Sorting	1.094	1.134	1.105	1.099	1.078	1.116	1.101	1.099
	Skewness	0.574	0.540	0.527	0.629	0.646	0.626	0.590	0.635
	Kurtosis	3.273	3.156	3.205	3.348	3.419	3.287	3.299	3.347
Median particle size (ϕ)		5.790	5.319	4.534	5.473	1.748	2.221	1.791	1.814

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

Table III.D: Particle size data for core CGA

Size class	Phi (ϕ)	CGA1	CGA2	CGA3	CGA4	CGA5	CGA6	CGA7
% Very coarse gravel	<-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Coarse gravel	-5 to -4	0.00	0.00	0.00	22.81	2.81	9.91	11.90
% Medium gravel	-4 to -3	0.00	4.83	0.00	29.50	11.66	6.60	3.90
% Fine gravel	-3 to -2	1.61	1.22	5.29	9.57	3.36	6.26	1.83
% Very fine gravel	-2 to -1	2.86	3.66	6.53	3.68	3.32	4.79	1.22
% Very coarse sand	-1 to 0	1.12	2.42	1.82	1.90	3.55	6.99	1.06
% Coarse sand	0 to 1	2.98	5.24	9.09	5.59	21.48	12.56	2.66
% Medium sand	1 to 2	9.70	9.56	24.15	12.93	25.75	12.89	7.08
% Fine sand	2 to 3	13.81	9.87	10.39	5.63	8.83	9.40	11.95
% Very fine sand	3 to 4	35.82	25.67	4.68	1.87	2.82	6.15	13.90
% Very coarse silt	4 to 5	6.02	8.24	4.46	1.06	2.17	4.20	7.48
% Coarse silt	5 to 6	11.31	12.91	11.68	2.14	5.25	8.27	15.48
% Medium silt	6 to 7	9.88	10.52	12.52	1.79	5.41	7.31	13.67
% Fine silt	7 to 8	3.62	4.17	5.89	0.66	2.15	2.89	5.20
% Clay	>8	1.28	1.38	2.83	0.26	0.85	1.17	2.04
% Gravel		4.47	9.71	11.82	65.56	21.15	27.56	18.85
% Sand		63.43	52.76	50.13	27.92	62.43	47.99	36.65
% Silt		30.83	35.84	34.55	5.65	14.98	22.67	41.83
% Clay		1.28	1.38	2.83	0.26	0.85	1.17	2.04
Method of Moments (Logarithmic ϕ)	Mean	3.590	3.258	2.964	-1.587	1.109	1.215	2.831
	Sorting	2.151	2.767	2.987	3.088	2.976	3.550	3.781
	Skewness	-0.268	-0.623	0.074	1.040	0.208	0.056	-0.765
	Kurtosis	3.607	3.170	2.111	3.142	2.895	2.105	2.525
Method of Moments >4 ϕ (Logarithmic ϕ)	Mean	5.988	5.919	6.299	6.003	6.168	6.048	6.044
	Sorting	1.093	1.110	1.172	1.099	1.110	1.126	1.109
	Skewness	0.650	0.671	0.560	0.689	0.590	0.658	0.661
	Kurtosis	3.340	3.253	3.007	3.397	3.256	3.272	3.335
Median particle size (ϕ)		3.495	3.502	2.268	-3.089	1.137	1.201	3.575

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Table III.D (continued): Particle size data for core CGA

Size class	Phi (ϕ)	CGA8	CGA9	CGA10	CGA11	CGA12	CGA13	CGA14
% Very coarse gravel	<-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Coarse gravel	-5 to -4	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Medium gravel	-4 to -3	11.81	1.66	1.23	1.96	4.38	3.44	0.00
% Fine gravel	-3 to -2	0.48	1.18	3.73	4.54	4.17	3.54	0.00
% Very fine gravel	-2 to -1	1.34	0.44	3.70	9.46	6.05	3.98	0.00
% Very coarse sand	-1 to 0	0.83	1.16	1.70	0.18	1.99	0.96	3.57
% Coarse sand	0 to 1	2.70	2.62	5.91	1.72	4.08	3.80	78.29
% Medium sand	1 to 2	9.96	11.10	23.03	9.98	17.92	33.80	10.11
% Fine sand	2 to 3	12.93	14.56	18.22	14.42	20.09	28.76	0.40
% Very fine sand	3 to 4	10.70	12.89	9.31	11.97	12.42	7.80	0.00
% Very coarse silt	4 to 5	7.82	4.76	4.37	4.41	3.68	2.14	0.81
% Coarse silt	5 to 6	16.73	18.18	10.64	14.99	9.88	4.66	1.04
% Medium silt	6 to 7	15.14	19.64	10.95	15.67	9.19	3.86	0.77
% Fine silt	7 to 8	6.33	7.63	4.61	6.49	3.70	1.52	0.31
% Clay	>8	2.87	3.35	2.21	2.90	1.67	0.69	0.14
% Gravel		13.63	3.28	8.66	15.96	14.60	10.96	0.00
% Sand		37.12	42.33	58.17	38.27	56.50	75.12	92.37
% Silt		46.02	50.21	30.57	41.56	26.45	12.18	2.93
% Clay		2.87	3.35	2.21	2.90	1.67	0.69	0.14
Method of Moments (Logarithmic ϕ)	Mean	3.411	4.294	3.005	3.446	2.621	2.045	0.749
	Sorting	3.349	2.562	2.724	3.127	2.901	2.248	1.030
	Skewness	-0.751	-0.602	-0.003	-0.460	-0.185	-0.055	4.528
	Kurtosis	2.799	3.292	2.651	2.368	2.662	4.233	26.39
Method of Moments >4 ϕ (Logarithmic ϕ)	Mean	6.117	6.285	6.221	6.277	6.171	6.061	5.581
	Sorting	1.151	1.084	1.155	1.110	1.123	1.133	1.162
	Skewness	0.654	0.653	0.606	0.633	0.664	0.713	0.800
	Kurtosis	3.200	3.392	3.139	3.279	3.300	3.344	3.322
Median particle size (ϕ)		3.903	4.833	2.577	3.585	2.549	1.999	0.564

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Table III.E: Particle size data for core CGB

Size class	Phi (ϕ)	CGB1	CGB2	CGB3	CGB4	CGB5	CGB6	CGB7
% Very coarse gravel	<-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Coarse gravel	-5 to -4	31.10	27.52	0.00	0.00	0.00	0.00	17.26
% Medium gravel	-4 to -3	14.18	14.49	20.64	0.00	0.00	0.00	21.51
% Fine gravel	-3 to -2	11.59	8.75	5.45	0.08	0.16	1.21	10.89
% Very fine gravel	-2 to -1	7.00	6.35	3.65	0.03	0.10	1.61	4.01
% Very coarse sand	-1 to 0	4.22	5.55	5.68	0.11	0.32	3.08	1.34
% Coarse sand	0 to 1	6.81	11.84	17.48	2.30	1.62	10.14	4.84
% Medium sand	1 to 2	6.03	10.18	14.22	8.10	15.29	31.95	13.01
% Fine sand	2 to 3	2.11	5.27	8.45	37.21	49.10	26.01	10.32
% Very fine sand	3 to 4	1.29	1.57	3.09	11.60	9.26	4.52	4.67
% Very coarse silt	4 to 5	1.48	0.92	2.11	3.81	2.69	3.33	1.74
% Coarse silt	5 to 6	4.67	2.92	8.17	10.07	6.24	6.43	3.90
% Medium silt	6 to 7	5.14	2.94	7.50	15.20	8.57	7.10	3.98
% Fine silt	7 to 8	1.78	1.25	2.48	7.61	4.19	2.94	1.64
% Clay	>8	0.60	0.53	0.82	3.51	1.92	1.23	0.66
% Gravel		63.87	57.11	29.75	0.11	0.26	2.82	53.67
% Sand		20.46	34.41	48.92	59.32	75.59	75.70	34.18
% Silt		13.07	8.03	20.26	36.69	21.69	19.80	11.26
% Clay		0.60	0.53	0.82	3.51	1.92	1.23	0.66
Method of Moments (Logarithmic ϕ)	Mean	-1.266	-1.150	0.972	4.080	3.307	2.576	-0.494
	Sorting	3.661	3.303	3.383	2.173	1.914	2.173	3.586
	Skewness	1.078	0.867	0.301	0.519	1.145	0.788	0.591
	Kurtosis	2.982	2.975	2.146	2.175	3.689	3.496	2.194
Method of Moments >4 ϕ (Logarithmic ϕ)	Mean	6.187	6.248	6.132	6.470	6.392	6.167	6.160
	Sorting	1.037	1.111	1.003	1.163	1.178	1.153	1.128
	Skewness	0.587	0.625	0.697	0.414	0.438	0.549	0.584
	Kurtosis	3.514	3.262	3.744	2.917	2.905	3.086	3.186
Median particle size (ϕ)		-2.679	-2.082	0.827	3.169	2.657	2.069	-1.944

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

Table III.E (continued): Particle size data for core CGB

Size class	Phi (ϕ)	CGB8	CGB9	CGB10	CGB11	CGB12	CGB13
% Very coarse gravel	<-5	0.00	0.00	0.00	0.00	0.00	13.51
% Coarse gravel	-5 to -4	0.00	0.00	0.00	0.00	0.00	15.79
% Medium gravel	-4 to -3	12.70	21.60	4.46	0.86	2.29	6.85
% Fine gravel	-3 to -2	1.24	8.01	2.04	2.37	2.86	6.17
% Very fine gravel	-2 to -1	1.00	3.39	1.05	2.08	2.25	4.27
% Very coarse sand	-1 to 0	0.47	2.02	0.71	0.93	1.40	0.91
% Coarse sand	0 to 1	1.68	5.92	4.05	2.98	3.40	2.62
% Medium sand	1 to 2	16.10	22.83	24.17	13.81	16.41	13.46
% Fine sand	2 to 3	41.51	15.79	25.69	20.19	20.21	13.21
% Very fine sand	3 to 4	10.70	3.38	11.63	14.42	14.31	6.82
% Very coarse silt	4 to 5	2.46	3.18	3.85	4.72	4.54	1.82
% Coarse silt	5 to 6	4.60	6.08	9.02	13.51	11.36	5.38
% Medium silt	6 to 7	4.57	5.30	8.32	14.89	13.07	5.67
% Fine silt	7 to 8	1.83	1.82	3.25	6.14	5.49	2.33
% Clay	>8	0.72	0.61	1.27	2.59	2.41	0.99
% Gravel		14.94	33.00	7.55	5.31	7.40	46.59
% Sand		70.46	49.94	66.25	52.33	55.73	37.02
% Silt		13.46	16.38	24.44	39.26	34.46	15.20
% Clay		0.72	0.61	1.27	2.59	2.41	0.99
Method of Moments (Logarithmic ϕ)	Mean	2.040	0.882	2.787	3.741	3.383	-0.120
	Sorting	2.691	3.260	2.542	2.575	2.715	4.131
	Skewness	-0.581	0.143	-0.211	-0.283	-0.280	0.200
	Kurtosis	3.559	2.137	3.555	2.901	2.953	1.780
Method of Moments >4 ϕ (Logarithmic ϕ)	Mean	6.086	5.969	6.103	6.256	6.261	6.244
	Sorting	1.134	1.073	1.105	1.114	1.137	1.111
	Skewness	0.601	0.648	0.640	0.582	0.551	0.606
	Kurtosis	3.179	3.404	3.322	3.232	3.140	3.261
Median particle size (ϕ)		2.400	1.395	2.517	3.477	3.082	0.916

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

Table III.F: Particle size data for core NR

Size class	Phi (ϕ)	NR1	NR2	NR3	NR4	NR5	NR6	NR7	NR8	NR9	NR10
% Very coarse gravel	<-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Coarse gravel	-5 to -4	0.00	41.18	0.00	38.30	0.00	0.00	8.36	5.49	39.04	0.00
% Medium gravel	-4 to -3	0.00	31.99	8.68	14.58	35.22	45.62	12.66	9.79	22.62	0.00
% Fine gravel	-3 to -2	0.51	7.52	4.18	11.66	6.29	16.30	13.75	4.70	8.94	0.00
% Very fine gravel	-2 to -1	3.83	3.52	2.33	2.22	2.99	4.95	7.89	3.82	2.94	0.15
% Very coarse sand	-1 to 0	4.46	2.42	1.35	0.67	1.30	2.50	4.39	3.09	1.38	1.86
% Coarse sand	0 to 1	15.56	1.95	4.25	2.22	2.24	3.28	8.48	11.30	2.74	11.54
% Medium sand	1 to 2	44.04	4.11	49.63	16.66	20.31	11.08	19.30	28.87	5.20	18.24
% Fine sand	2 to 3	18.65	3.45	20.93	8.80	19.56	7.71	11.96	16.26	4.51	41.23
% Very fine sand	3 to 4	2.98	1.01	1.14	1.28	2.79	2.87	3.12	4.31	2.09	10.20
% Very coarse silt	4 to 5	0.87	0.23	0.62	0.33	0.73	0.47	1.48	1.18	0.49	1.60
% Coarse silt	5 to 6	2.86	0.79	1.68	1.00	2.53	1.28	2.64	3.74	1.41	4.63
% Medium silt	6 to 7	3.72	1.06	2.35	1.32	3.02	1.96	3.15	4.31	2.03	5.57
% Fine silt	7 to 8	1.73	0.48	1.14	0.60	1.40	0.96	1.51	2.07	0.99	2.85
% Clay	>8	0.89	0.23	0.53	0.29	0.69	0.49	0.81	1.07	0.50	1.51
% Gravel		4.34	84.21	15.19	66.76	44.50	66.87	42.66	23.80	73.54	0.15
% Sand		85.69	12.94	77.30	29.63	46.20	27.44	47.25	63.83	15.92	83.07
% Silt		9.18	2.56	5.79	3.25	7.68	4.67	8.78	11.30	4.92	14.85
% Clay		0.89	0.23	0.53	0.29	0.69	0.49	0.81	1.07	0.50	1.51
Method of Moments (Logarithmic ϕ)	Mean	1.862	-2.850	1.300	-1.806	-0.004	-1.287	0.040	1.058	-2.309	2.762
	Sorting	1.876	2.506	2.245	3.101	3.230	2.908	3.138	3.002	3.116	1.900
	Skewness	1.342	2.149	-0.192	0.936	0.388	1.254	0.452	0.044	1.635	1.201
	Kurtosis	5.808	7.410	4.602	2.846	2.205	3.732	2.630	2.926	4.785	4.382
Method of Moments >4 ϕ (Logarithmic ϕ)	Mean	6.440	6.432	6.432	6.410	6.399	6.497	6.288	6.393	6.473	6.429
	Sorting	1.158	1.130	1.162	1.151	1.146	1.178	1.234	1.172	1.170	1.196
	Skewness	0.522	0.524	0.451	0.508	0.558	0.427	0.497	0.549	0.456	0.500
	Kurtosis	2.991	3.087	2.948	3.026	3.050	2.883	2.802	2.966	2.919	2.849
Median particle size (ϕ)		1.583	-3.725	1.577	-3.200	1.074	-2.748	0.318	1.409	-3.629	2.434

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

Table III.F (continued): Particle size data for core NR

Size class	Phi (ϕ)	NR11	NR12	NR13	NR14	NR15	NR16	NR17	NR18	NR19	NR20
% Very coarse gravel	<-5	0.00	0.00	0.00	0.00	0.00	36.51	0.00	0.00	0.00	0.00
% Coarse gravel	-5 to -4	0.00	0.00	4.03	0.00	65.82	18.39	0.00	10.63	0.00	0.00
% Medium gravel	-4 to -3	0.00	1.50	19.13	38.93	0.00	11.21	30.83	4.45	15.21	4.49
% Fine gravel	-3 to -2	0.00	2.73	8.63	15.64	2.53	3.87	2.87	9.30	10.83	2.54
% Very fine gravel	-2 to -1	0.00	0.60	7.95	4.61	1.18	0.76	0.76	2.28	4.94	1.58
% Very coarse sand	-1 to 0	1.30	0.89	8.12	4.98	1.14	0.96	0.80	1.28	4.63	0.75
% Coarse sand	0 to 1	2.11	3.64	13.33	8.26	2.28	4.79	1.25	2.41	4.63	1.40
% Medium sand	1 to 2	7.93	41.18	20.07	10.40	10.24	8.47	6.32	11.49	9.26	6.53
% Fine sand	2 to 3	57.69	33.31	6.74	5.20	4.90	4.20	9.18	14.57	9.98	11.20
% Very fine sand	3 to 4	17.36	4.03	1.78	0.98	3.24	3.33	7.66	9.17	6.87	11.48
% Very coarse silt	4 to 5	1.33	1.50	0.99	0.82	0.78	0.40	4.30	2.18	2.11	5.59
% Coarse silt	5 to 6	3.94	3.54	3.04	3.39	2.42	1.84	13.64	10.20	10.19	18.51
% Medium silt	6 to 7	4.58	3.84	3.28	3.77	3.19	2.88	14.24	13.21	12.97	22.13
% Fine silt	7 to 8	2.34	1.73	1.43	1.65	1.53	1.46	5.53	5.45	5.42	9.19
% Clay	>8	1.23	0.84	0.25	0.76	0.74	0.76	2.35	2.57	2.66	4.23
% Gravel		0.00	4.83	39.74	59.18	69.53	70.74	34.46	26.66	30.98	8.61
% Sand		86.39	83.05	50.04	29.82	21.80	21.75	25.21	38.92	35.37	31.36
% Silt		12.19	10.61	8.74	9.63	7.92	6.58	37.71	31.04	30.69	55.42
% Clay		1.23	0.84	0.25	0.76	0.74	0.76	2.35	2.57	2.66	4.23
Method of Moments (Logarithmic ϕ)	Mean	3.038	2.207	-0.074	-0.831	-2.084	-2.482	1.932	2.138	1.901	4.332
	Sorting	1.553	1.927	2.938	3.204	3.707	3.791	4.240	3.932	3.870	3.001
	Skewness	1.583	0.466	0.549	1.148	1.233	1.196	-0.181	-0.292	0.019	-1.000
	Kurtosis	6.224	5.866	2.868	3.382	3.183	3.272	1.486	1.946	1.678	3.583
Method of Moments >4 ϕ (Logarithmic ϕ)	Mean	6.414	6.266	6.304	6.363	6.435	6.603	6.233	6.423	6.433	6.337
	Sorting	1.192	1.174	1.141	1.110	1.158	1.140	1.094	1.090	1.099	1.117
	Skewness	0.514	0.561	0.599	0.626	0.494	0.487	0.633	0.616	0.626	0.581
	Kurtosis	2.869	3.020	3.142	3.218	2.974	2.917	3.359	3.273	3.237	3.211
Median particle size (ϕ)		2.668	1.979	0.114	-2.312	-4.235	-4.265	2.766	2.532	2.035	5.229

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

Table III.F (continued): Particle size data for core NR

Size class	Phi (ϕ)	NR21	NR22	NR23	NR24	NR25	NR26
% Very coarse gravel	<-5	0.00	0.00	0.00	0.00	0.00	0.00
% Coarse gravel	-5 to -4	24.05	10.44	0.00	14.21	9.07	0.00
% Medium gravel	-4 to -3	11.65	3.09	10.41	17.67	5.37	0.00
% Fine gravel	-3 to -2	2.76	1.58	6.62	5.92	1.69	0.00
% Very fine gravel	-2 to -1	1.10	0.59	1.03	0.87	0.97	0.13
% Very coarse sand	-1 to 0	0.77	1.29	1.64	0.53	1.24	0.46
% Coarse sand	0 to 1	2.50	3.22	4.02	1.93	4.10	3.12
% Medium sand	1 to 2	12.77	9.85	20.89	9.11	19.76	23.86
% Fine sand	2 to 3	16.68	11.59	24.07	11.71	23.86	29.73
% Very fine sand	3 to 4	10.33	9.57	12.04	8.71	11.66	14.98
% Very coarse silt	4 to 5	1.22	3.06	1.52	1.80	2.28	1.83
% Coarse silt	5 to 6	4.48	14.99	5.57	8.96	7.39	9.10
% Medium silt	6 to 7	6.14	19.35	7.03	11.63	7.47	10.34
% Fine silt	7 to 8	3.00	7.74	3.08	4.78	3.10	4.06
% Clay	>8	1.72	3.60	1.54	2.16	1.52	1.71
% Gravel		39.56	15.70	18.06	38.67	17.10	0.13
% Sand		43.05	35.52	62.66	31.99	60.62	72.15
% Silt		14.84	45.14	17.20	27.17	20.24	25.33
% Clay		1.72	3.60	1.54	2.16	1.52	1.71
Method of Moments (Logarithmic ϕ)	Mean	0.489	3.282	2.014	1.206	2.037	3.372
	Sorting	4.030	3.815	3.021	4.289	3.277	2.032
	Skewness	0.108	-0.787	-0.174	0.007	-0.460	0.844
	Kurtosis	1.776	2.643	2.758	1.563	2.869	2.811
Method of Moments >4 ϕ (Logarithmic ϕ)	Mean	6.525	6.413	6.414	6.422	6.274	6.340
	Sorting	1.177	1.079	1.133	1.077	1.123	1.058
	Skewness	0.504	0.635	0.568	0.625	0.646	0.672
	Kurtosis	2.872	3.334	3.110	3.318	3.267	3.449
Median particle size (ϕ)		1.529	3.860	2.213	1.973	2.316	2.743

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

Table III.G: Particle size data for core CM

Size class	Phi (ϕ)	CM1	CM2	CM3	CM4	CM5	CM6	CM7
% Very coarse gravel	<-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Coarse gravel	-5 to -4	2.38	0.00	0.00	18.37	7.81	0.00	0.00
% Medium gravel	-4 to -3	0.78	17.18	47.01	20.61	0.36	8.50	3.39
% Fine gravel	-3 to -2	0.73	5.12	12.28	5.17	0.80	6.33	3.95
% Very fine gravel	-2 to -1	0.08	5.20	2.96	1.96	0.44	3.04	1.73
% Very coarse sand	-1 to 0	0.23	3.62	2.42	2.79	0.52	1.75	1.15
% Coarse sand	0 to 1	0.82	15.99	5.02	4.05	0.93	3.98	2.62
% Medium sand	1 to 2	5.39	27.20	11.57	9.75	5.72	7.66	8.06
% Fine sand	2 to 3	4.34	6.42	8.23	11.46	8.52	5.63	9.10
% Very fine sand	3 to 4	2.11	3.62	2.24	5.25	7.37	3.10	7.43
% Very coarse silt	4 to 5	8.59	1.38	1.20	1.21	5.89	3.46	8.37
% Coarse silt	5 to 6	29.55	4.36	2.72	5.69	21.77	14.53	22.32
% Medium silt	6 to 7	31.56	5.66	2.57	8.65	25.16	26.36	20.97
% Fine silt	7 to 8	10.35	2.82	1.02	3.56	10.28	11.28	7.49
% Clay	>8	3.08	1.44	0.48	1.41	4.44	4.29	3.40
% Gravel		3.97	27.50	62.25	46.11	9.41	17.87	9.07
% Sand		12.89	56.85	29.48	33.30	23.06	22.12	28.36
% Silt		80.05	14.22	7.51	19.11	63.10	55.63	59.15
% Clay		3.08	1.44	0.48	1.41	4.44	4.29	3.40
Method of Moments (Logarithmic ϕ)	Mean	5.229	0.960	-1.039	0.242	4.436	3.777	4.207
	Sorting	2.502	3.140	3.118	4.111	3.367	3.772	2.989
	Skewness	-2.061	0.396	1.067	0.365	-1.430	-0.722	-0.968
	Kurtosis	8.034	2.721	3.097	1.773	4.491	2.185	3.339
Method of Moments >4 ϕ (Logarithmic ϕ)	Mean	6.159	6.458	6.140	6.453	6.323	6.512	6.121
	Sorting	1.001	1.173	1.142	1.052	1.093	1.050	1.085
	Skewness	0.586	0.492	0.652	0.555	0.606	0.477	0.669
	Kurtosis	3.618	2.909	3.241	3.368	3.300	3.343	3.459
Median particle size (ϕ)		5.830	1.106	-2.768	0.263	5.535	5.447	5.188

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

Table III.G (continued): Particle size data for core CM

Size class	Phi (ϕ)	CM8	CM9	CM10	CM11	CM12	CM13
% Very coarse gravel	<-5	0.00	0.00	0.00	0.00	0.00	0.00
% Coarse gravel	-5 to -4	19.89	0.00	0.00	0.00	5.06	0.00
% Medium gravel	-4 to -3	14.00	13.25	5.98	0.34	0.66	0.81
% Fine gravel	-3 to -2	7.90	10.38	3.94	0.56	0.74	0.00
% Very fine gravel	-2 to -1	3.23	4.92	1.25	0.52	0.54	0.02
% Very coarse sand	-1 to 0	1.54	3.67	0.50	0.75	0.60	0.34
% Coarse sand	0 to 1	2.81	4.59	2.18	2.90	2.21	1.00
% Medium sand	1 to 2	13.26	12.10	20.04	27.89	23.05	12.00
% Fine sand	2 to 3	9.48	7.59	24.29	33.90	25.27	14.33
% Very fine sand	3 to 4	5.76	5.17	12.64	13.95	11.88	9.55
% Very coarse silt	4 to 5	1.98	3.00	2.42	2.08	3.32	4.30
% Coarse silt	5 to 6	6.95	12.40	8.76	5.65	10.74	20.14
% Medium silt	6 to 7	8.05	14.86	10.91	6.75	10.11	24.55
% Fine silt	7 to 8	3.36	5.72	4.87	3.12	3.76	9.10
% Clay	>8	1.41	2.34	2.14	1.38	1.54	3.44
% Gravel		45.02	28.55	11.17	1.42	7.00	0.83
% Sand		32.85	33.12	59.65	79.39	63.01	37.22
% Silt		20.34	35.98	26.96	17.60	27.93	58.09
% Clay		1.41	2.34	2.14	1.38	1.54	3.44
Method of Moments (Logarithmic ϕ)	Mean	0.390	2.182	2.891	2.938	2.957	4.755
	Sorting	4.091	3.843	2.898	1.948	2.758	2.275
	Skewness	-0.284	-0.095	-0.307	0.851	-0.591	-0.509
	Kurtosis	1.742	1.665	3.038	4.276	4.088	2.992
Method of Moments >4 ϕ (Logarithmic ϕ)	Mean	6.318	6.326	6.368	6.336	6.172	6.324
	Sorting	1.096	1.063	1.124	1.152	1.074	1.033
	Skewness	0.587	0.621	0.535	0.520	0.682	0.635
	Kurtosis	3.271	3.423	3.129	3.038	3.485	3.537
Median particle size (ϕ)		1.033	2.143	2.662	2.500	2.668	5.369

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

Table III.H: Particle size data for core TG

Size class	Phi (ϕ)	TG1	TG2	TG3	TG4	TG5	TG6	TG7	TG8	TG9	TG10	TG11
% Very coarse gravel	<-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.32	0.00	0.00
% Coarse gravel	-5 to -4	0.00	57.50	65.00	0.00	0.00	0.00	0.00	0.00	13.93	0.00	0.00
% Medium gravel	-4 to -3	3.63	7.75	14.73	0.00	0.00	0.00	0.00	2.88	23.60	2.70	0.00
% Fine gravel	-3 to -2	0.00	5.52	4.68	0.00	0.00	0.00	0.41	6.99	11.65	0.74	1.54
% Very fine gravel	-2 to -1	0.32	3.98	2.88	0.00	0.00	0.00	0.00	6.79	5.41	0.16	0.54
% Very coarse sand	-1 to 0	0.24	1.15	1.70	0.00	0.00	0.24	0.27	7.00	3.80	0.24	2.78
% Coarse sand	0 to 1	0.12	0.81	1.05	0.00	0.00	0.97	0.40	22.10	10.31	0.61	6.05
% Medium sand	1 to 2	1.30	0.71	0.83	0.24	0.25	1.46	0.93	31.87	15.80	1.09	13.55
% Fine sand	2 to 3	2.36	0.59	0.41	1.10	1.37	3.16	5.32	8.09	2.67	3.51	2.06
% Very fine sand	3 to 4	3.30	0.50	1.26	18.35	14.72	10.09	10.63	3.16	1.03	38.38	7.62
% Very coarse silt	4 to 5	9.86	2.69	1.14	18.23	13.93	7.01	12.37	1.89	0.74	8.01	6.39
% Coarse silt	5 to 6	28.33	6.49	1.97	22.73	25.30	25.18	23.69	2.89	1.63	15.67	16.16
% Medium silt	6 to 7	34.05	8.12	2.47	22.92	26.05	31.41	27.31	3.46	2.26	17.38	25.15
% Fine silt	7 to 8	11.97	3.05	1.05	10.09	11.56	14.00	12.17	1.58	1.08	7.76	12.21
% Clay	>8	3.94	1.07	0.44	4.61	5.41	6.47	5.58	0.71	0.51	3.39	5.95
% Gravel		3.95	74.75	87.29	0.00	0.00	0.00	0.41	16.66	59.91	3.60	2.08
% Sand		7.32	3.76	5.25	19.69	16.34	15.92	17.55	67.11	33.61	43.83	32.06
% Silt		84.21	20.35	6.63	73.97	76.94	77.60	75.54	9.82	5.71	48.82	59.91
% Clay		3.94	1.07	0.44	4.61	5.41	6.47	5.58	0.71	0.51	3.39	5.95
Method of Moments (Logarithmic ϕ)	Mean	5.560	-1.679	-3.104	5.498	5.697	5.831	5.609	1.147	-1.350	4.587	4.752
	Sorting	2.279	4.336	2.953	1.514	1.507	1.696	1.759	2.352	3.108	2.275	2.719
	Skewness	-2.383	1.222	2.498	0.260	0.085	-0.640	-0.665	0.665	0.909	-1.107	-0.620
	Kurtosis	10.09	2.755	8.184	2.576	2.677	3.810	4.543	4.101	3.359	6.086	2.491
Method of Moments >4 ϕ (Logarithmic ϕ)	Mean	6.206	6.217	6.206	6.025	6.158	6.158	6.228	6.193	6.381	6.207	6.475
	Sorting	1.045	1.084	1.168	1.217	1.191	1.191	1.184	1.209	1.185	1.173	1.173
	Skewness	0.530	0.497	0.483	0.617	0.579	0.579	0.524	0.499	0.437	0.534	0.414
	Kurtosis	3.434	3.272	2.984	2.935	2.996	2.996	2.970	2.867	2.897	3.002	2.909
Median particle size (ϕ)		6.007	-4.489	-4.489	5.493	5.752	6.060	5.811	1.124	-2.397	4.290	5.586

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

Table III.H (continued): Particle size data for core TG

Size class	Phi (ϕ)	TG12	TG13	TG14	TG15	TG16	TG17	TG18	TG19	TG20	TG21	TG22
% Very coarse gravel	<-5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Coarse gravel	-5 to -4	0.00	41.49	42.61	25.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Medium gravel	-4 to -3	11.89	4.76	21.77	2.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00
% Fine gravel	-3 to -2	5.52	6.25	5.89	1.15	0.00	0.00	0.00	0.00	2.16	0.00	0.00
% Very fine gravel	-2 to -1	4.28	2.92	1.99	0.67	0.00	0.00	0.00	0.00	3.72	0.00	0.00
% Very coarse sand	-1 to 0	3.43	2.95	2.69	1.19	0.12	0.12	0.00	0.00	0.14	0.00	0.00
% Coarse sand	0 to 1	11.92	3.76	4.08	1.46	0.12	0.36	0.32	0.00	0.28	1.07	0.17
% Medium sand	1 to 2	42.41	4.53	4.92	1.59	0.89	1.08	0.96	0.57	0.96	1.07	0.86
% Fine sand	2 to 3	3.63	0.81	0.80	1.99	3.18	5.28	2.88	3.20	10.17	7.47	1.38
% Very fine sand	3 to 4	1.82	1.63	1.35	3.31	14.42	46.43	20.19	47.67	45.22	22.40	3.79
% Very coarse silt	4 to 5	2.20	3.71	2.51	8.69	11.22	6.43	10.41	6.48	5.27	11.55	12.29
% Coarse silt	5 to 6	3.97	8.95	3.83	17.35	24.73	15.63	35.73	18.30	11.93	23.01	29.92
% Medium silt	6 to 7	5.10	10.78	4.32	20.71	28.61	16.04	20.20	16.53	12.61	21.24	33.81
% Fine silt	7 to 8	2.37	5.02	2.17	9.47	11.56	5.93	5.45	4.54	5.14	8.28	12.86
% Clay	>8	1.06	2.35	1.08	4.25	4.93	2.35	4.47	1.59	2.27	3.92	3.54
% Gravel		21.69	55.42	72.26	29.99	0.00	0.00	0.00	0.00	5.88	0.00	0.00
% Sand		63.21	13.68	13.84	9.54	18.73	53.27	24.35	51.44	56.77	32.01	6.20
% Silt		13.64	28.46	12.83	56.22	76.12	44.03	71.79	45.85	34.95	64.08	88.88
% Clay		1.06	2.35	1.08	4.25	4.93	2.35	4.47	1.59	2.27	3.92	3.54
Method of Moments (Logarithmic ϕ)	Mean	1.141	-0.132	-1.839	2.693	5.644	4.635	5.318	4.662	4.047	5.129	5.941
	Sorting	2.840	4.744	3.769	4.840	1.590	1.632	1.525	1.495	2.185	1.735	1.302
	Skewness	0.351	0.519	-1.385	-0.592	-0.226	0.582	0.081	0.665	-0.595	-0.005	-0.458
	Kurtosis	3.180	1.600	3.557	1.654	3.016	2.727	3.228	2.560	4.522	2.645	4.409
Method of Moments >4 ϕ (Logarithmic ϕ)	Mean	6.267	6.326	6.217	6.261	6.216	6.144	5.980	6.025	6.190	6.091	6.149
	Sorting	1.194	1.172	1.245	1.180	1.138	1.096	0.964	1.002	1.141	1.151	1.051
	Skewness	0.463	0.508	0.507	0.500	0.544	0.607	0.974	0.679	0.587	0.665	0.480
	Kurtosis	2.890	2.975	2.765	2.954	3.143	3.340	4.494	3.796	3.168	3.236	3.277
Median particle size (ϕ)		1.301	-2.407	-3.660	5.103	5.806	3.915	5.435	3.947	3.711	5.280	6.026

Distribution curve modes

Table III.J: Distribution Curve Modes for core GV

	GV1	GV2	GV3	GV4	GV5	GV6
	Bimodal	Polymodal	Unimodal	Unimodal	Unimodal	Bimodal
Mode 1 (ϕ)	6.501	-4.489	-4.489	-4.489	-5.489	1.500
Mode 2 (ϕ)	1.500	6.501				6.501
Mode 3 (ϕ)		-1.500				
	GV7	GV8	GV9	GV10	GV11	
	Bimodal	Trimodal	Trimodal	Trimodal	Bimodal	
Mode 1 (ϕ)	6.501	6.501	1.500	2.500	-4.489	
Mode 2 (ϕ)	3.494	-3.500	5.500	-3.500	-2.500	
Mode 3 (ϕ)		3.494	-3.500	6.501		

Table III.K: Distribution Curve Modes for core PG

	PG1	PG2	PG3	PG4	PG5	PG6	PG7	PG8
	Trimodal	Trimodal	Trimodal	Polymodal	Polymodal	Bimodal	Trimodal	Trimodal
Mode 1 (ϕ)	2.500	5.50	6.501	1.500	6.501	-4.489	1.500	1.500
Mode 2 (ϕ)	5.500	2.500	1.500	-4.489	2.500	5.500	-3.500	5.500
Mode 3 (ϕ)	-1.500	-2.500	-1.500	5.500	-3.500			-2.500

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

Table III.L: Distribution Curve Modes for core PGA

	PGA1	PGA2	PGA3	PGA4	PGA5	PGA6	PGA7
	Trimodal	Trimodal	Polymodal	Bimodal	Unimodal	Bimodal	Polymodal
Mode 1 (ϕ)	2.500	-0.500	1.500	1.500	5.500	6.501	2.500
Mode 2 (ϕ)	-1.500	2.500	-3.500	6.501		3.494	6.501
Mode 3 (ϕ)	5.500	5.500	-1.500				-3.500
	PGA8	PGA9	PGA10	PGA11	PGA12	PGA13	PGA14
	Trimodal	Polymodal	Bimodal	Trimodal	Trimodal	Trimodal	Trimodal
Mode 1 (ϕ)	2.500	6.501	6.501	6.501	6.501	6.501	1.500
Mode 2 (ϕ)	-2.500	2.500	2.500	2.500	2.500	-1.500	-2.500
Mode 3 (ϕ)	5.500	-0.500		-3.500	-1.500	3.494	6.501
	PGA15	PGA16	PGA17				
	Unimodal	Unimodal	Unimodal				
Mode 1 (ϕ)	2.500	1.500	1.500				
Mode 2 (ϕ)							
Mode 3 (ϕ)							

Table III.M: Distribution Curve Modes for core CGA

	CGA1	CGA2	CGA3	CGA4	CGA5	CGA6	CGA7
	Bimodal	Trimodal	Trimodal	Bimodal	Trimodal	Trimodal	Trimodal
Mode 1 (ϕ)	3.494	3.494	1.500	-3.500	1.500	1.500	5.500
Mode 2 (ϕ)	5.500	5.500	6.501	1.500	-3.500	-4.489	3.494
Mode 3 (ϕ)		-3.500	-1.500		6.502	5.500	-4.489
	CGA8	CGA9	CGA10	CGA11	CGA12	CGA13	CGA14
	Trimodal	Bimodal	Trimodal	Trimodal	Polymodal	Unimodal	Unimodal
Mode 1 (ϕ)	5.500	6.501	1.500	6.501	2.500	1.500	0.500
Mode 2 (ϕ)	2.500	2.500	6.501	2.500	5.500		
Mode 3 (ϕ)	-3.500		-2.500	-1.500	-1.500		

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

Table III.N: Distribution Curve Modes for core CGB

	CGB1	CGB2	CGB3	CGB4	CGB5	CGB6	CGB7
	Trimodal	Bimodal	Trimodal	Bimodal	Bimodal	Bimodal	Trimodal
Mode 1 (ϕ)	-4.489	-4.489	-3.500	2.500	2.500	1.500	-3.500
Mode 2 (ϕ)	0.500	0.500	0.500	6.501	6.501	6.501	1.500
Mode 3 (ϕ)	6.501		5.500				6.501
	CGB8	CGB9	CGB10	CGB11	CGB12	CGB13	
	Bimodal	Trimodal	Trimodal	Bimodal	Bimodal	Trimodal	
Mode 1 (ϕ)	2.500	1.500	2.500	2.500	2.500	-4.489	
Mode 2 (ϕ)	-3.500	-3.500	5.500	6.501	6.501	1.500	
Mode 3 (ϕ)		5.500	-3.500			6.501	

Table III.P: Distribution Curve Modes for core NR

	NR1	NR2	NR3	NR4	NR5	NR6	NR7
	Unimodal	Unimodal	Bimodal	Bimodal	Bimodal	Bimodal	Trimodal
Mode 1 (ϕ)	1.500	-4.489	1.500	-4.489	-3.500	-3.500	1.500
Mode 2 (ϕ)			-3.500	1.500	1.500	1.500	-2.500
Mode 3 (ϕ)							6.501
	NR8	NR9	NR10	NR11	NR12	NR13	NR14
	Bimodal	Unimodal	Unimodal	Unimodal	Unimodal	Trimodal	Bimodal
Mode 1 (ϕ)	1.500	-4.489	2.500	2.500	1.500	1.500	-3.500
Mode 2 (ϕ)	-3500					-3.500	1.500
Mode 3 (ϕ)						6.501	
	NR15	NR16	NR17	NR18	NR19	NR20	NR21
	Bimodal	Bimodal	Trimodal	Polymodal	Trimodal	Trimodal	Trimodal
Mode 1 (ϕ)	-4.489	-53489	-3.500	2.500	-3.500	6.501	-4.489
Mode 2 (ϕ)	1.500	1.500	6.501	6.501	6.501	3.494	2.500
Mode 3 (ϕ)			2.500	-4.489	2.500	-3.500	6.501
	NR22	NR23	NR24	NR25	NR26		
	Trimodal	Trimodal	Trimodal	Trimodal	Bimodal		
Mode 1 (ϕ)	6.501	2.500	-3.500	2.500	2.500		
Mode 2 (ϕ)	2.500	-3.500	2.500	-4.489	6.501		
Mode 3 (ϕ)	-4.489	6.501	6.501	6.501			

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

Table III.Q: Distribution Curve Modes for core CM

	CM1	CM2	CM3	CM4	CM5	CM6	CM7
	Bimodal	Polymodal	Bimodal	Trimodal	Trimodal	Trimodal	Trimodal
Mode 1 (ϕ)	6.501	1.500	-2.500	-3.500	6.501	6.501	5.500
Mode 2 (ϕ)	1.500	-3.500	1.500	2.500	2.500	-3.500	2.500
Mode 3 (ϕ)		6.501		6.501	-4.489	1.500	-2.500
	CM8	CM9	CM10	CM11	CM12	CM13	
	Trimodal	Trimodal	Trimodal	Bimodal	Trimodal	Bimodal	
Mode 1 (ϕ)	-4.489	6.501	2.500	2.500	2.500	6.501	
Mode 2 (ϕ)	1.500	-3.500	6.501	6.501	5.500	2.500	
Mode 3 (ϕ)	6.501	1.500	-3.500		-4.489		

Table III.R: Distribution Curve Modes for core TG

	TG1	TG2	TG3	TG4	TG5	TG6	TG7
	Unimodal	Unimodal	Unimodal	Bimodal	Bimodal	Bimodal	Unimodal
Mode 1 (ϕ)	6.501	-4.128	-4.228	6.501	6.501	6.501	6.501
Mode 2 (ϕ)				3.494	3.494	3.494	
Mode 3 (ϕ)							
	TG8	TG9	TG10	TG11	TG12	TG13	TG14
	Bimodal	Bimodal	Bimodal	Trimodal	Bimodal	Bimodal	Unimodal
Mode 1 (ϕ)	1.500	-3.500	3.494	6.501	1.500	-4.489	-4.489
Mode 2 (ϕ)	-2.500	1.500	6.501	1.500	-3.500	6.501	
Mode 3 (ϕ)				2.494			
	TG15	TG16	TG17	TG18	TG19	TG20	TG21
	Bimodal	Bimodal	Bimodal	Bimodal	Bimodal	Bimodal	Bimodal
Mode 1 (ϕ)	-4.489	6.501	2.494	5.500	3.494	3.494	5.500
Mode 2 (ϕ)	6.501	3.494	6.501	3.494	5.500	6.501	3.494
Mode 3 (ϕ)							
	TG22						
	Unimodal						
Mode 1 (ϕ)	6.501						
Mode 2 (ϕ)							
Mode 3 (ϕ)							

Textural characteristics

Table III.S: Textural groups for core GV

	Textural Group	Sediment Name
GV1	Gravelly mud	Very fine gravelly medium silt
GV2	Muddy gravel	Medium silty coarse gravel
GV3	Gravel	Coarse gravel
GV4	Gravel	Coarse gravel
GV5	Muddy sandy gravel	Medium silty sandy very coarse gravel
GV6	Slightly gravelly muddy sand	Slightly fine gravelly medium silty medium sand
GV7	Slightly gravelly sandy mud	Slightly very fine gravelly very fine sandy medium silt
GV8	Gravelly mud	Medium gravelly medium silt
GV9	Gravelly muddy sand	Medium gravelly coarse silty medium sand
GV10	Gravelly muddy sand	Medium gravelly medium silty fine sand
GV11	Gravel	Coarse gravel

Table III.T: Textural groups for core PG

	Textural Group	Sediment Name
PG1	Gravelly muddy sand	Very fine gravelly coarse silty fine sand
PG2	Gravelly mud	Fine gravelly coarse silt
PG3	Gravelly mud	Very fine gravelly medium silt
PG4	Gravelly muddy sand	Coarse gravelly coarse silty medium sand
PG5	Gravelly mud	Medium gravelly medium silt
PG6	Muddy gravel	Coarse silty coarse gravel
PG7	Muddy sandy gravel	Coarse silty sandy medium gravel
PG8	Gravelly muddy sand	Fine gravelly coarse silty medium sand

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

Table III.U Textural groups for core PGA

	Textural Group	Sediment Name
PGA1	Gravelly muddy sand	Very fine gravelly coarse silty fine sand
PGA2	Muddy sandy gravel	Coarse silty sandy very fine gravel
PGA3	Muddy sandy gravel	Medium silty sandy medium gravel
PGA4	Slightly gravelly muddy sand	Slightly very fine gravelly medium silty medium sand
PGA5	Slightly gravelly sandy mud	Slightly very fine gravelly very fine sandy coarse silt
PGA6	Slightly gravelly sandy mud	Slightly very fine gravelly very fine sandy medium silt
PGA7	Gravelly muddy sand	Medium gravelly medium silty fine sand
PGA8	Gravelly muddy sand	Fine gravelly coarse silty fine sand
PGA9	Gravelly mud	Medium gravelly medium silt
PGA10	Slightly gravelly sandy mud	Slightly very fine gravelly fine sandy medium silt
PGA11	Gravelly mud	Medium gravelly medium silt
PGA12	Gravelly mud	Very fine gravelly medium silt
PGA13	Gravelly mud	Very fine gravelly medium silt
PGA14	Muddy sandy gravel	Medium silty sandy fine gravel
PGA15	Slightly gravelly sand	Slightly very fine gravelly fine sand
PGA16	Slightly gravelly sand	Slightly very fine gravelly medium sand
PGA17	Slightly gravelly sand	Slightly very fine gravelly medium sand

Table III.V: Textural groups for core CGA

	Textural Group	Sediment Name
CGA1	Slightly gravelly muddy sand	Slightly very fine gravelly coarse silty very fine sand
CGA2	Gravelly muddy sand	Medium gravelly coarse silty very fine sand
CGA3	Gravelly muddy sand	Very fine gravelly medium silty medium sand
CGA4	Muddy sandy gravel	Coarse silty sandy medium gravel
CGA5	Gravelly muddy sand	Medium gravelly medium silty medium sand
CGA6	Gravelly muddy sand	Coarse gravelly coarse silty medium sand
CGA7	Gravelly mud	Coarse gravelly coarse silt
CGA8	Gravelly mud	Medium gravelly coarse silt
CGA9	Slightly gravelly sandy mud	Slightly medium gravelly fine sandy medium silt
CGA10	Gravelly muddy sand	Fine gravelly medium silty medium sand
CGA11	Gravelly mud	Very fine gravelly medium silt
CGA12	Gravelly muddy sand	Very fine gravelly coarse silty fine sand
CGA13	Gravelly muddy sand	Very fine gravelly coarse silty medium sand
CGA14	Sand	Coarse sand

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

Table III.W: Textural groups for core CGB

	Textural Group	Sediment Name
CGB1	Muddy sandy gravel	Medium silty sandy coarse gravel
CGB2	Muddy sandy gravel	Medium silty sandy coarse gravel
CGB3	Gravelly muddy sand	Medium gravelly coarse silty coarse sand
CGB4	Slightly gravelly muddy sand	Slightly fine gravelly medium silty fine sand
CGB5	Slightly gravelly muddy sand	Slightly fine gravelly medium silty fine sand
CGB6	Slightly gravelly muddy sand	Slightly very fine gravelly medium silty medium sand
CGB7	Muddy sandy gravel	Medium silty sandy medium gravel
CGB8	Gravelly muddy sand	Medium gravelly coarse silty fine sand
CGB9	Muddy sandy gravel	Coarse silty sandy medium gravel
CGB10	Gravelly muddy sand	Medium gravelly coarse silty fine sand
CGB11	Gravelly muddy sand	Fine gravelly medium silty fine sand
CGB12	Gravelly muddy sand	Fine gravelly medium silty fine sand
CGB13	Muddy sandy gravel	Medium silty sandy coarse gravel

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

Table III.X: Textural groups for core NR

	Textural Group	Sediment Name
NR1	Slightly gravelly muddy sand	Slightly very fine gravelly medium silty medium sand
NR2	Gravel	Coarse gravel
NR3	Gravelly sand	Medium gravelly medium sand
NR4	Muddy sandy gravel	Medium silty sandy coarse gravel
NR5	Muddy sandy gravel	Medium silty sandy medium gravel
NR6	Muddy sandy gravel	Medium silty sandy medium gravel
NR7	Muddy sandy gravel	Medium silty sandy fine gravel
NR8	Gravelly muddy sand	Medium gravelly medium silty medium sand
NR9	Muddy sandy gravel	Medium silty sandy coarse gravel
NR10	Slightly gravelly muddy sand	Slightly very fine gravelly medium silty fine sand
NR11	Muddy sand	Medium silty fine sand
NR12	Slightly gravelly muddy sand	Slightly fine gravelly medium silty medium sand
NR13	Muddy sandy gravel	Medium silty sandy medium gravel
NR14	Muddy sandy gravel	Medium silty sandy medium gravel
NR15	Muddy sandy gravel	Medium silty sandy coarse gravel
NR16	Muddy sandy gravel	Medium silty sandy very coarse gravel
NR17	Muddy gravel	Medium silty medium gravel
NR18	Gravelly muddy sand	Coarse gravelly medium silty fine sand
NR19	Muddy sandy gravel	Medium silty sandy medium gravel
NR20	Gravelly mud	Medium gravelly medium silt
NR21	Muddy sandy gravel	Medium silty sandy coarse gravel
NR22	Gravelly mud	Coarse gravelly medium silt
NR23	Gravelly muddy sand	Medium gravelly medium silty fine sand
NR24	Muddy sandy gravel	Medium silty sandy medium gravel
NR25	Gravelly muddy sand	Coarse gravelly medium silty fine sand
NR26	Slightly gravelly muddy sand	Slightly very fine gravelly medium silty fine sand

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

Table III.Y: Textural groups for core CM

	Textural Group	Sediment Name
CM1	Slightly gravelly sandy mud	Slightly coarse gravelly medium sandy medium silt
CM2	Gravelly muddy sand	Medium gravelly medium silty medium sand
CM3	Muddy sandy gravel	Coarse silty sandy medium gravel
CM4	Muddy sandy gravel	Medium silty sandy medium gravel
CM5	Gravelly mud	Coarse gravelly medium silt
CM6	Gravelly mud	Medium gravelly medium silt
CM7	Gravelly mud	Fine gravelly coarse silt
CM8	Muddy sandy gravel	Medium silty sandy coarse gravel
CM9	Gravelly mud	Medium gravelly medium silt
CM10	Gravelly muddy sand	Medium gravelly medium silty fine sand
CM11	Slightly gravelly muddy sand	Slightly fine gravelly medium silty fine sand
CM12	Gravelly muddy sand	Coarse gravelly coarse silty fine sand
CM13	Slightly gravelly sandy mud	Slightly medium gravelly fine sandy medium silt

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

Table III.Z: Textural groups for core TG

	Textural Group	Sediment Name
TG1	Slightly gravelly mud	Slightly medium gravelly medium silt
TG2	Muddy gravel	Medium silty coarse gravel
TG3	Gravel	Coarse gravel
TG4	Sandy mud	Very fine sandy medium silt
TG5	Sandy mud	Very fine sandy medium silt
TG6	Sandy mud	Very fine sandy medium silt
TG7	Slightly gravelly sandy mud	Slightly fine gravelly very fine sandy medium silt
TG8	Gravelly muddy sand	Fine gravelly medium silty medium sand
TG9	Muddy sandy gravel	Medium silty sandy medium gravel
TG10	Slightly gravelly sandy mud	Slightly medium gravelly very fine sandy medium silt
TG11	Slightly gravelly sandy mud	Slightly fine gravelly medium sandy medium silt
TG12	Gravelly muddy sand	Medium gravelly medium silty medium sand
TG13	Muddy gravel	Medium silty coarse gravel
TG14	Muddy gravel	Medium silty coarse gravel
TG15	Gravelly mud	Coarse gravelly medium silt
TG16	Sandy mud	Very fine sandy medium silt
TG17	Muddy sand	Medium silty very fine sand
TG18	Sandy mud	Very fine sandy coarse silt
TG19	Muddy sand	Coarse silty very fine sand
TG20	Gravelly muddy sand	Very fine gravelly medium silty very fine sand
TG21	Sandy mud	Very fine sandy coarse silt
TG22	Mud	Medium silt

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

Particle size distribution histograms

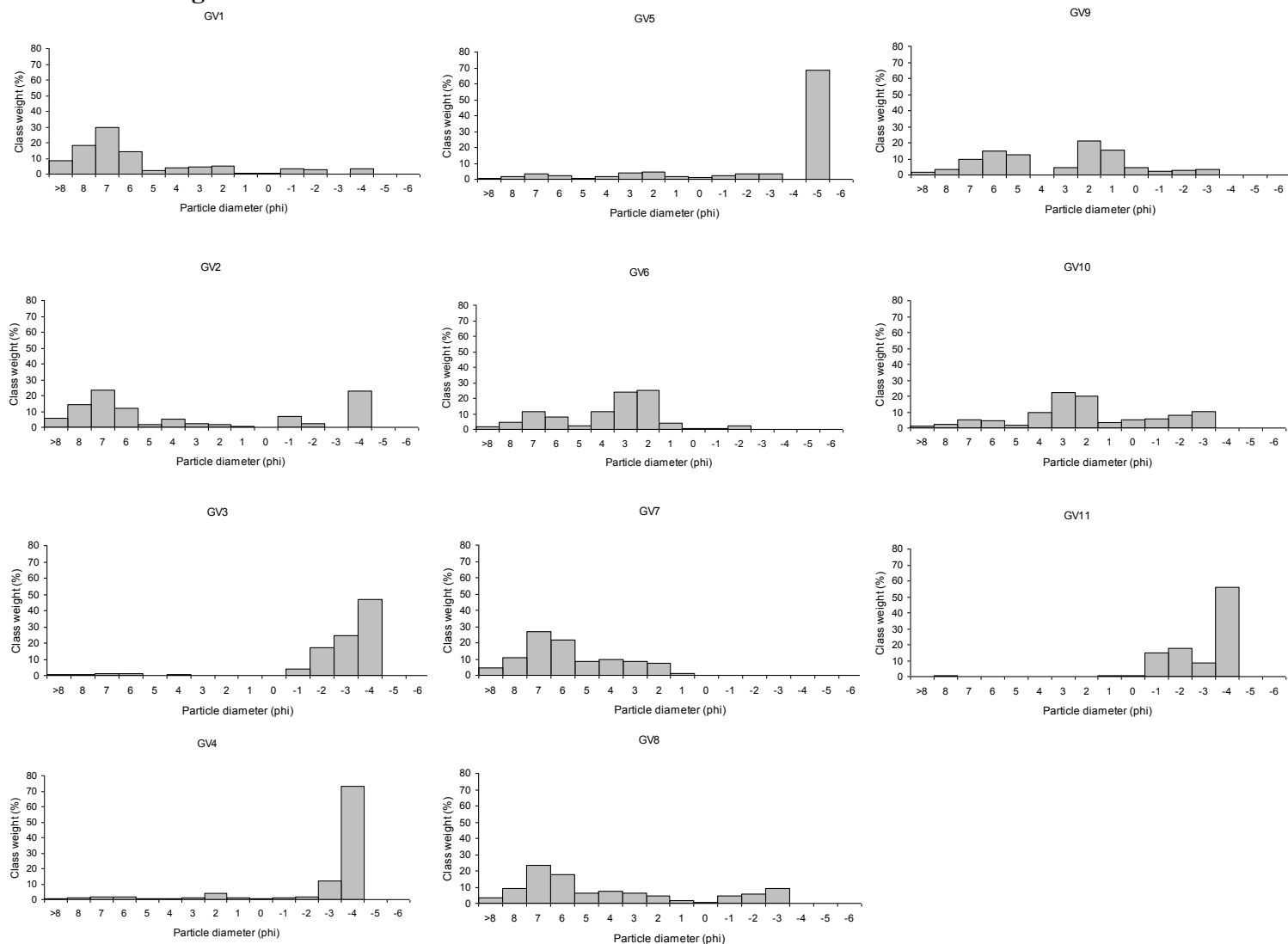


Figure III.A: Particle size distribution histograms for core GV. Particles finer than 8 phi are shown in the >8 phi class

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

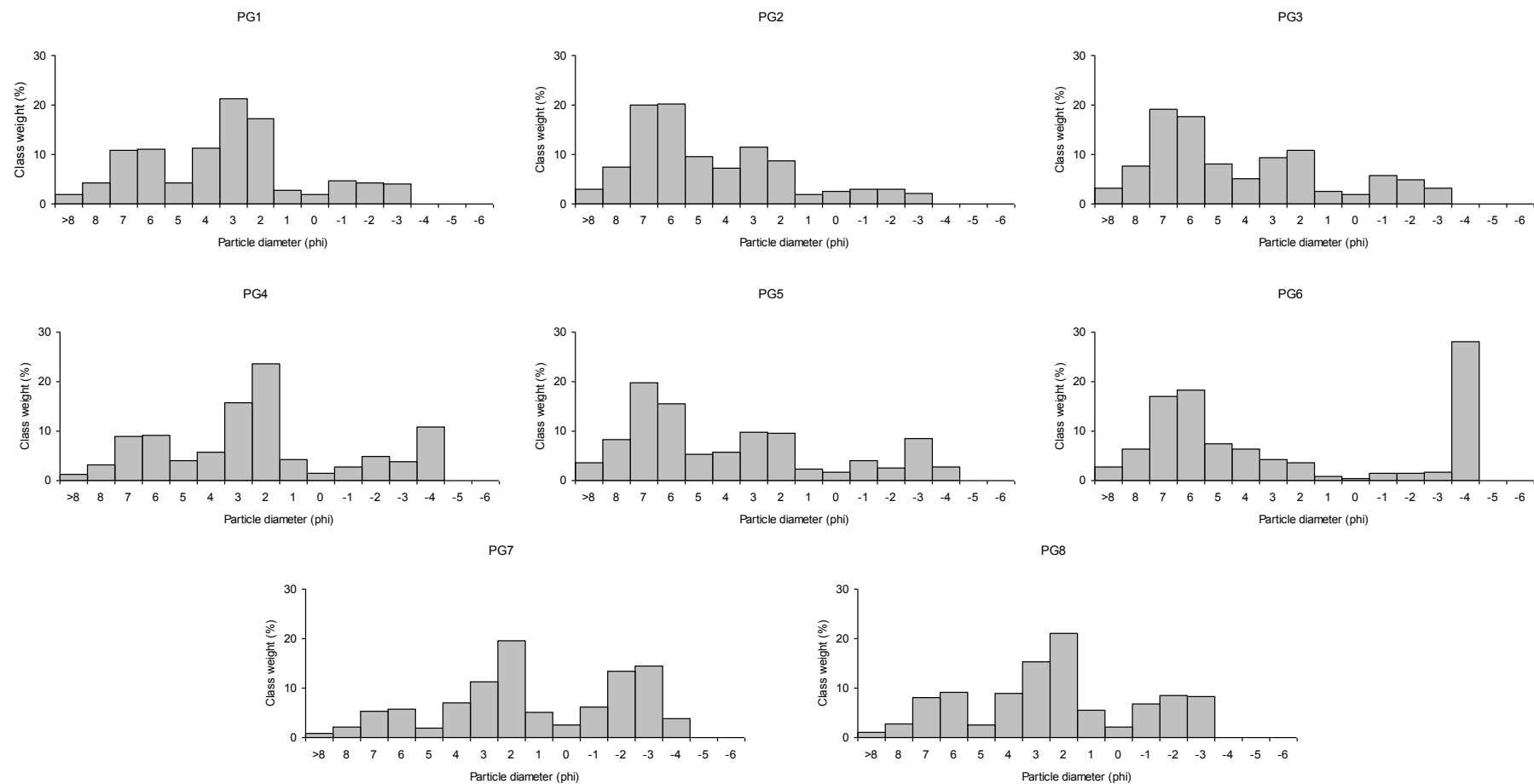


Figure III.B: Particle size distribution histograms for core PG

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

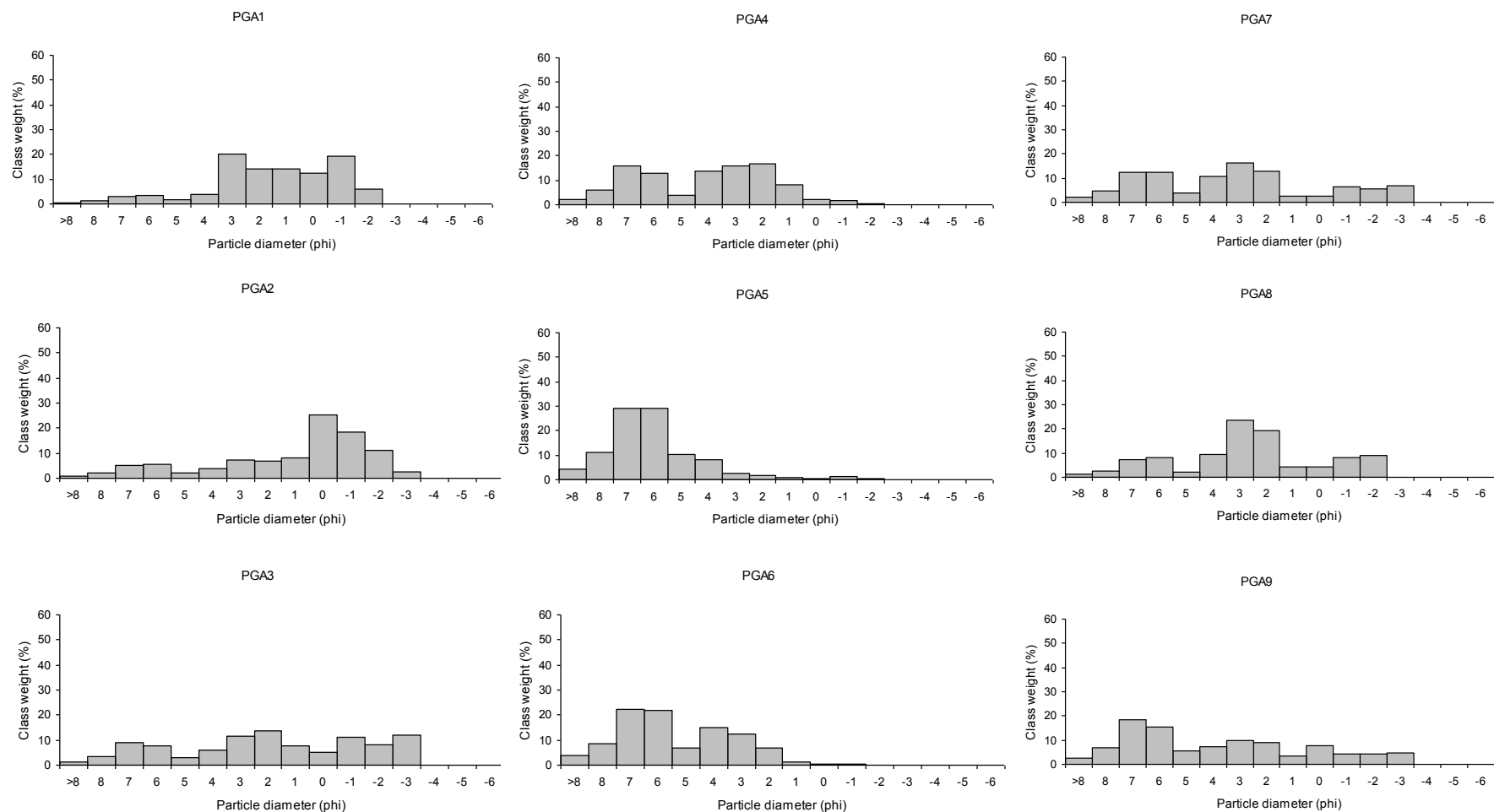


Figure III.C: Particle size distribution histograms for core PGA (PGA1 to PGA9)

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

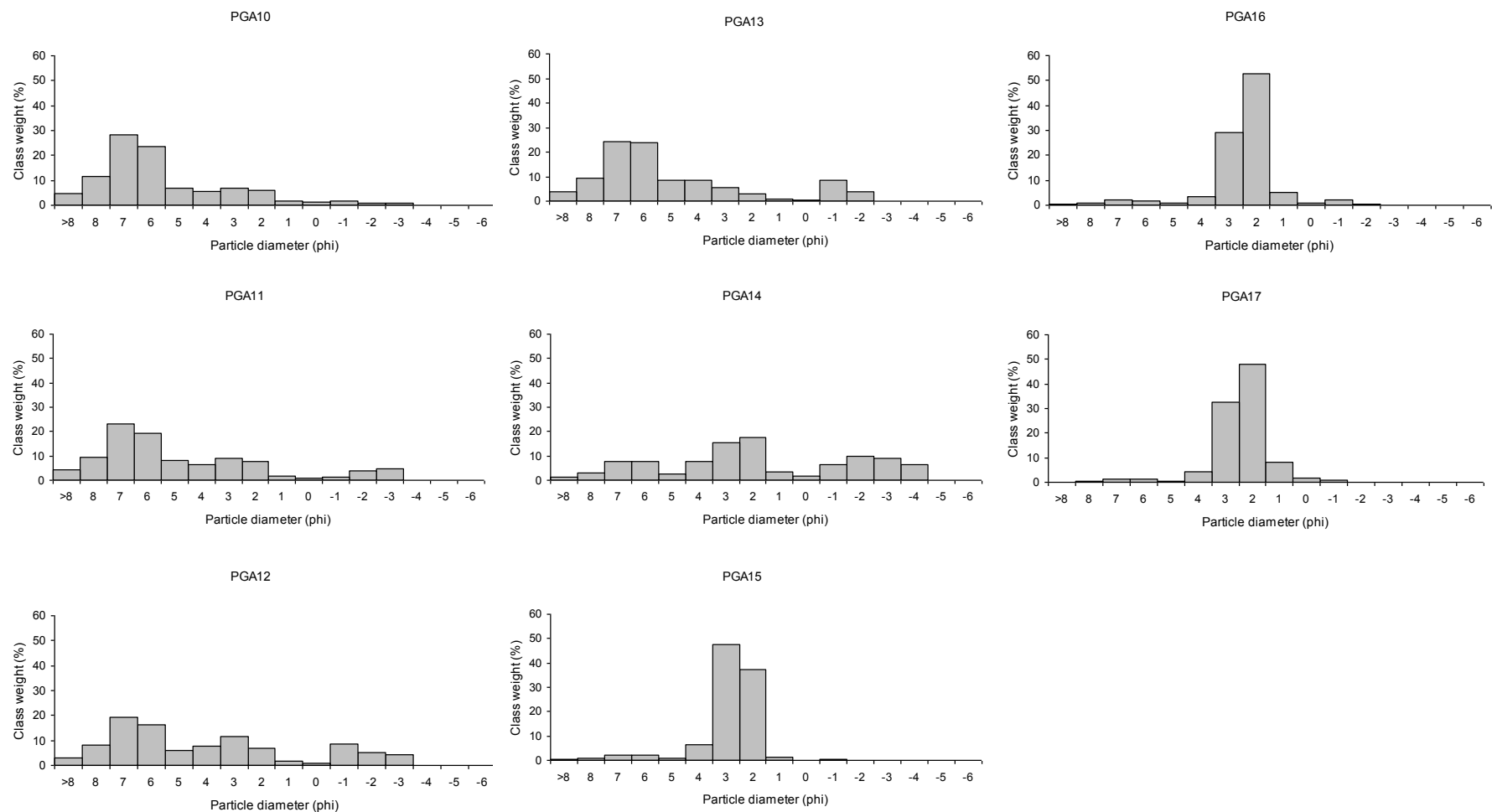


Figure III.C (continued): Particle size distribution histograms for core PGA (PGA10 to PGA17)

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

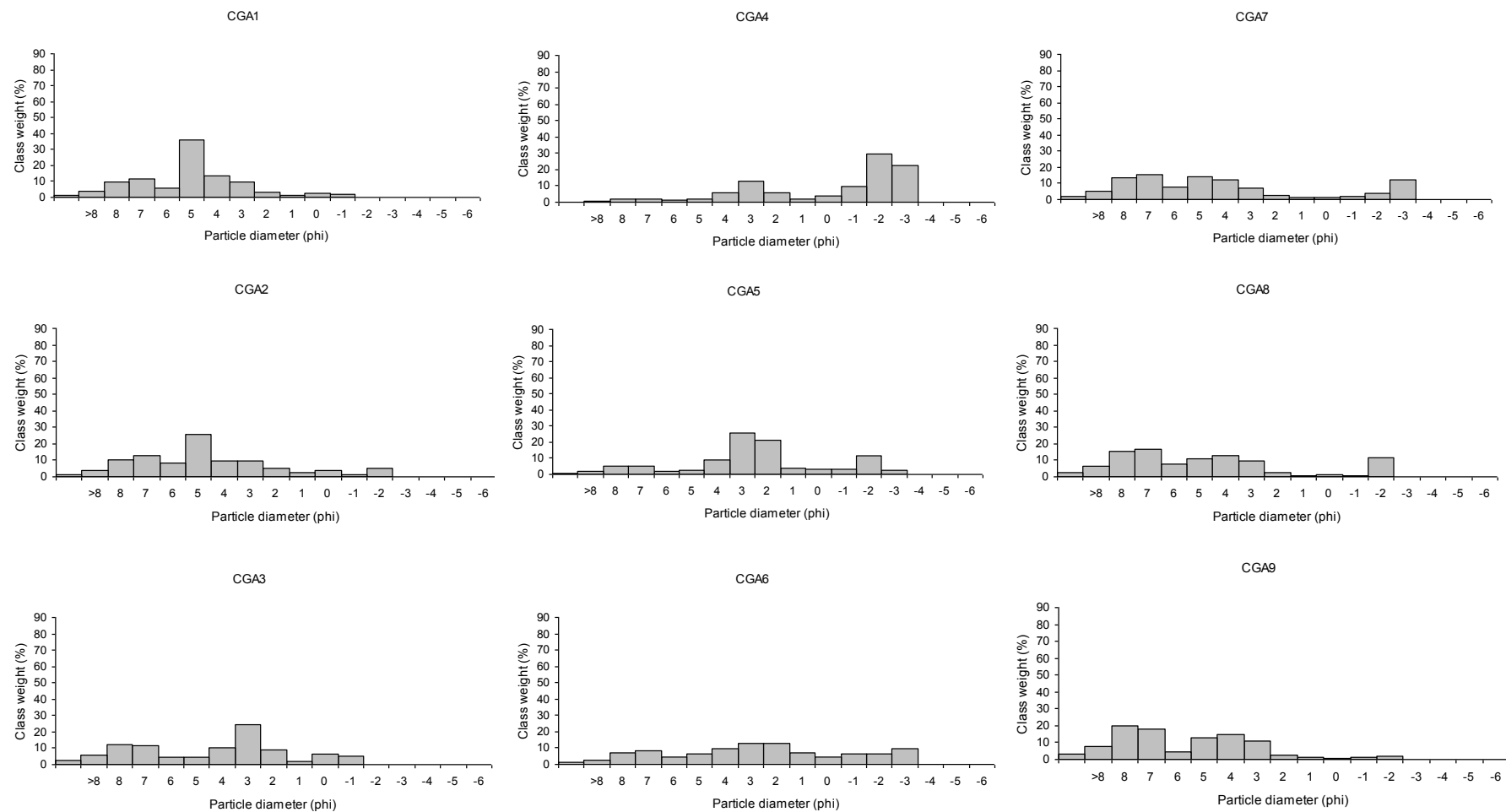


Figure III.D: Particle size distribution histograms for core CGA (CGA1 to CGA9)

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

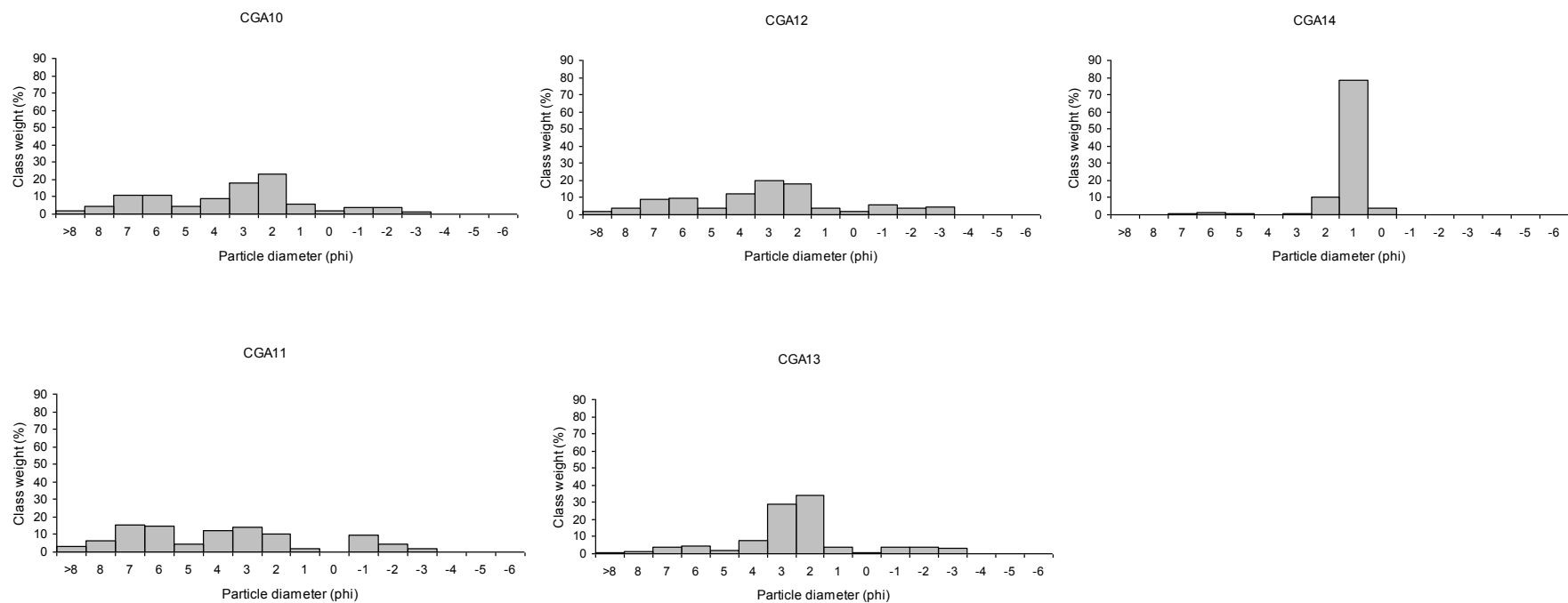


Figure III.D (continued): Particle size distribution histograms for core CGA (CGA10 to CGA14)

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

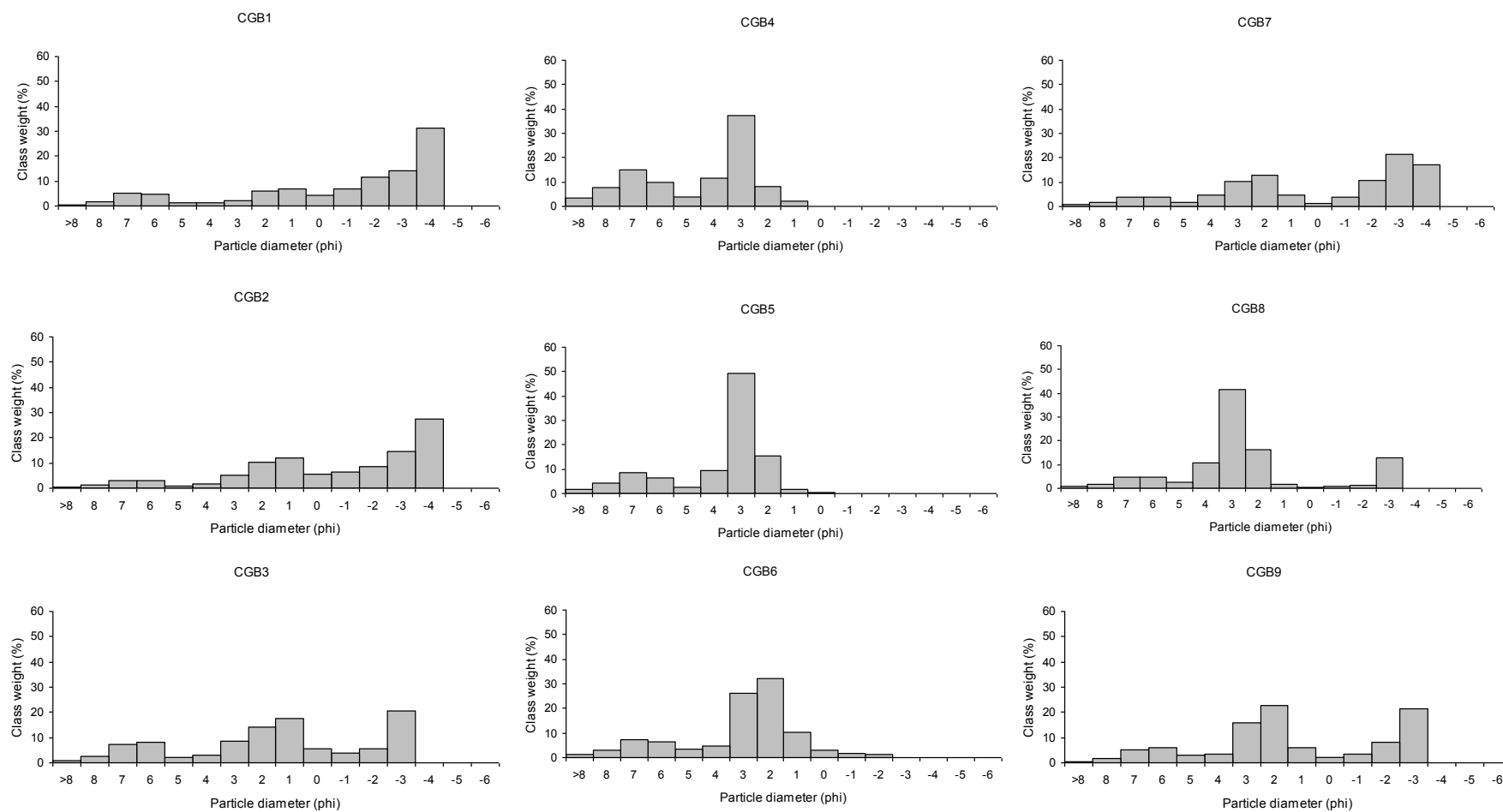


Figure III.E: Particle size distribution histograms for core CGB (CGB1 to CGB9)

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

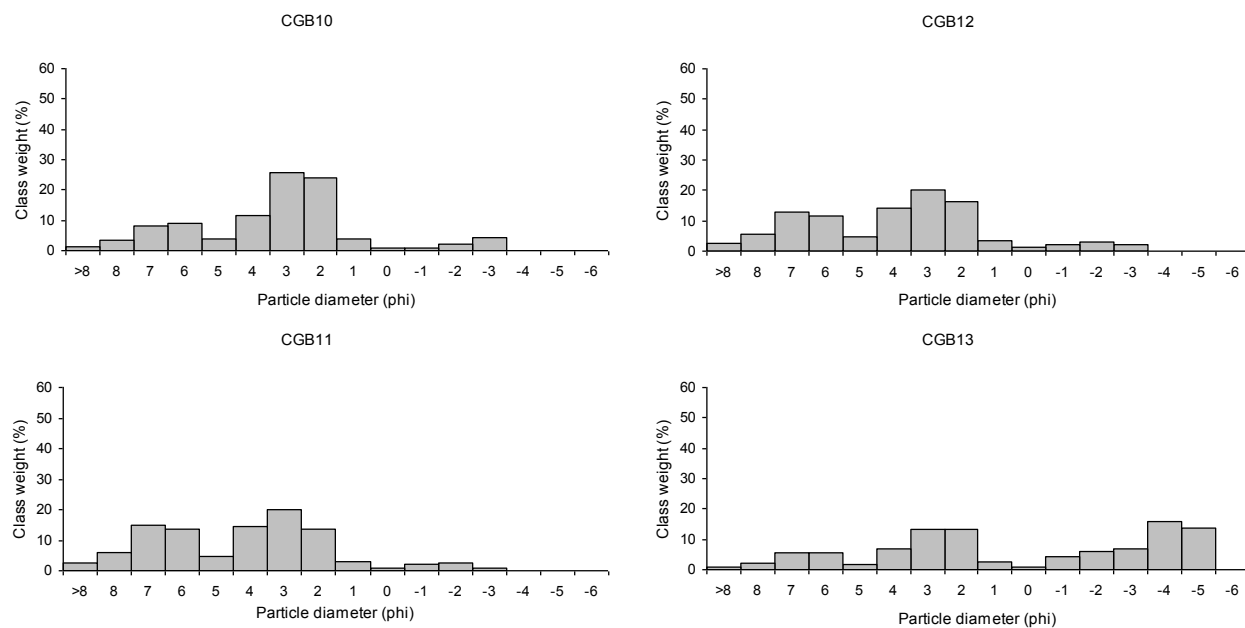


Figure III.E (continued): Particle size distribution histograms for core CGB (CGB10 to CGB13)

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

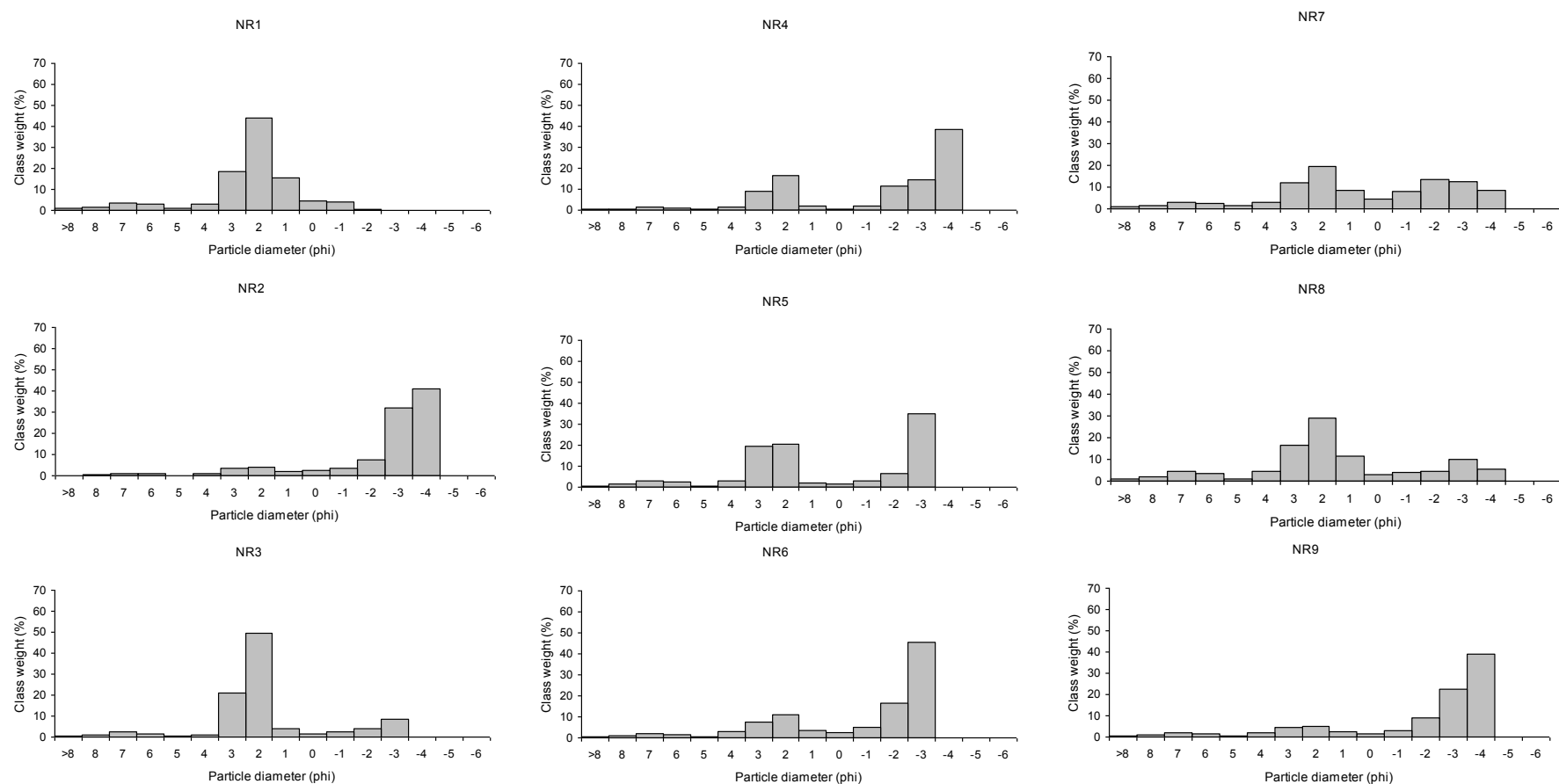


Figure III.F: Particle size distribution histograms for core NR (NR1 to NR9)

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

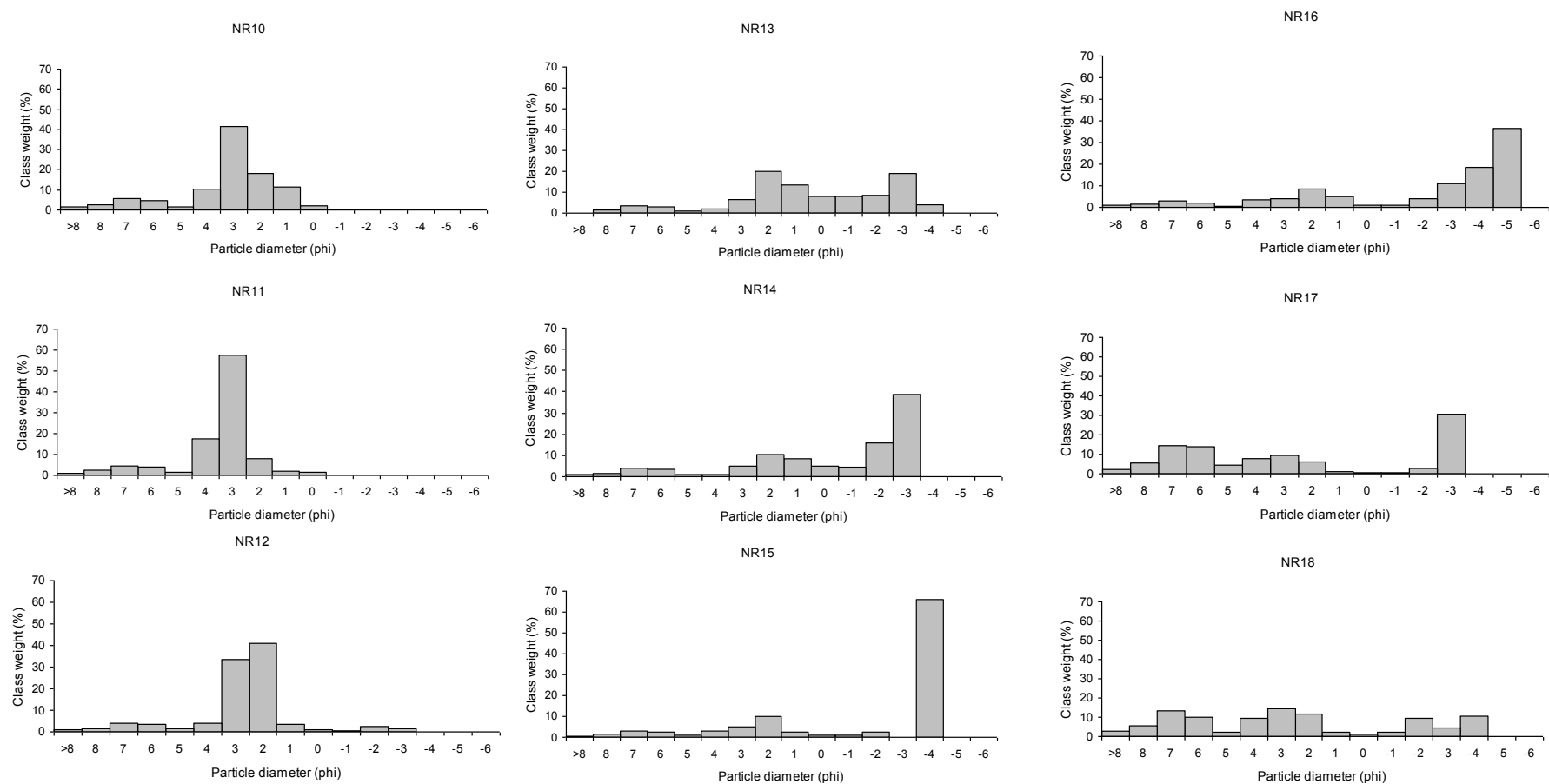


Figure III.F (continued): Particle size distribution histograms for core NR (NR10 to NR18)

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

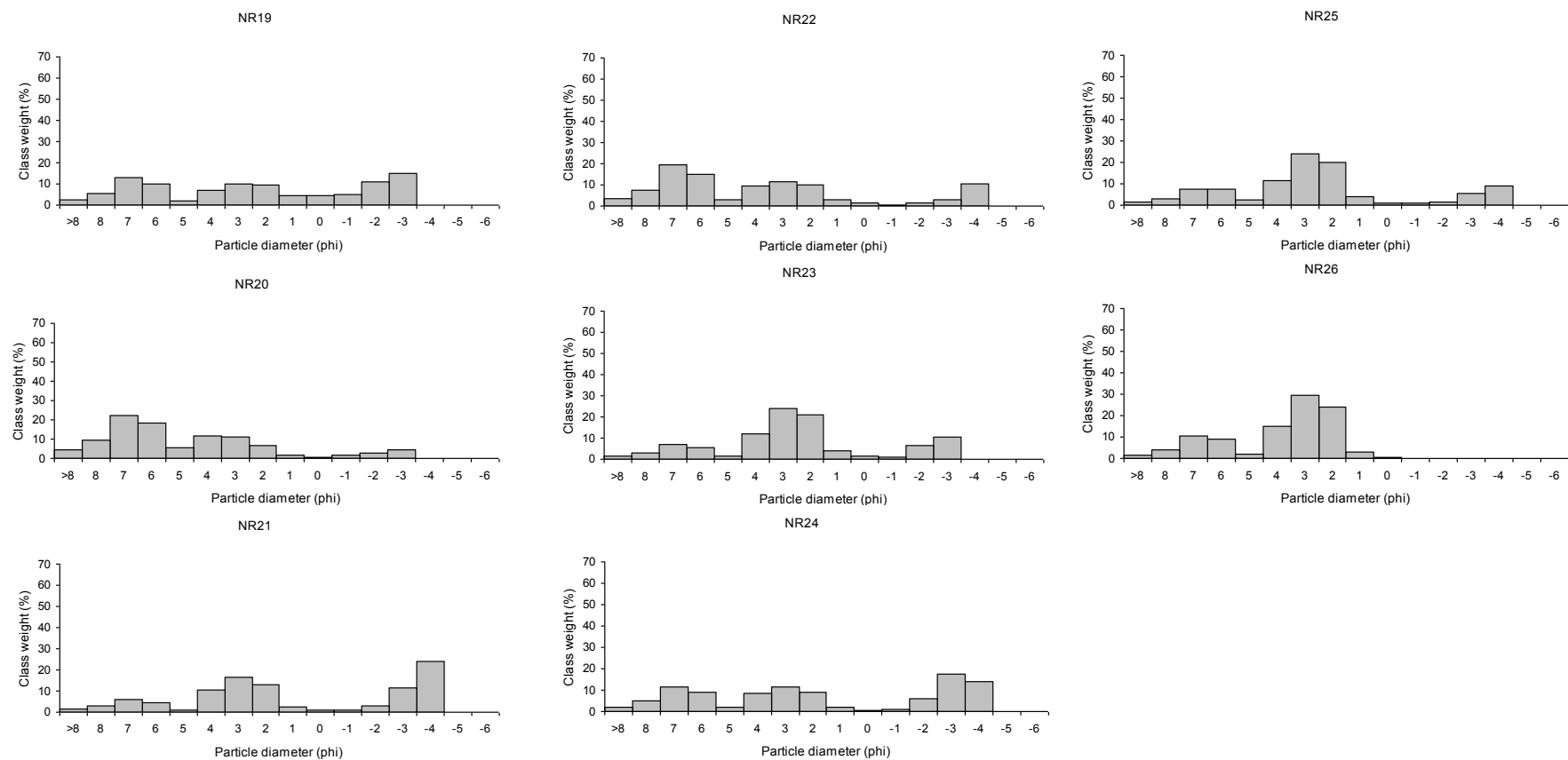


Figure III.F (continued): Particle size distribution histograms for core NR (NR19 to NR26)

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

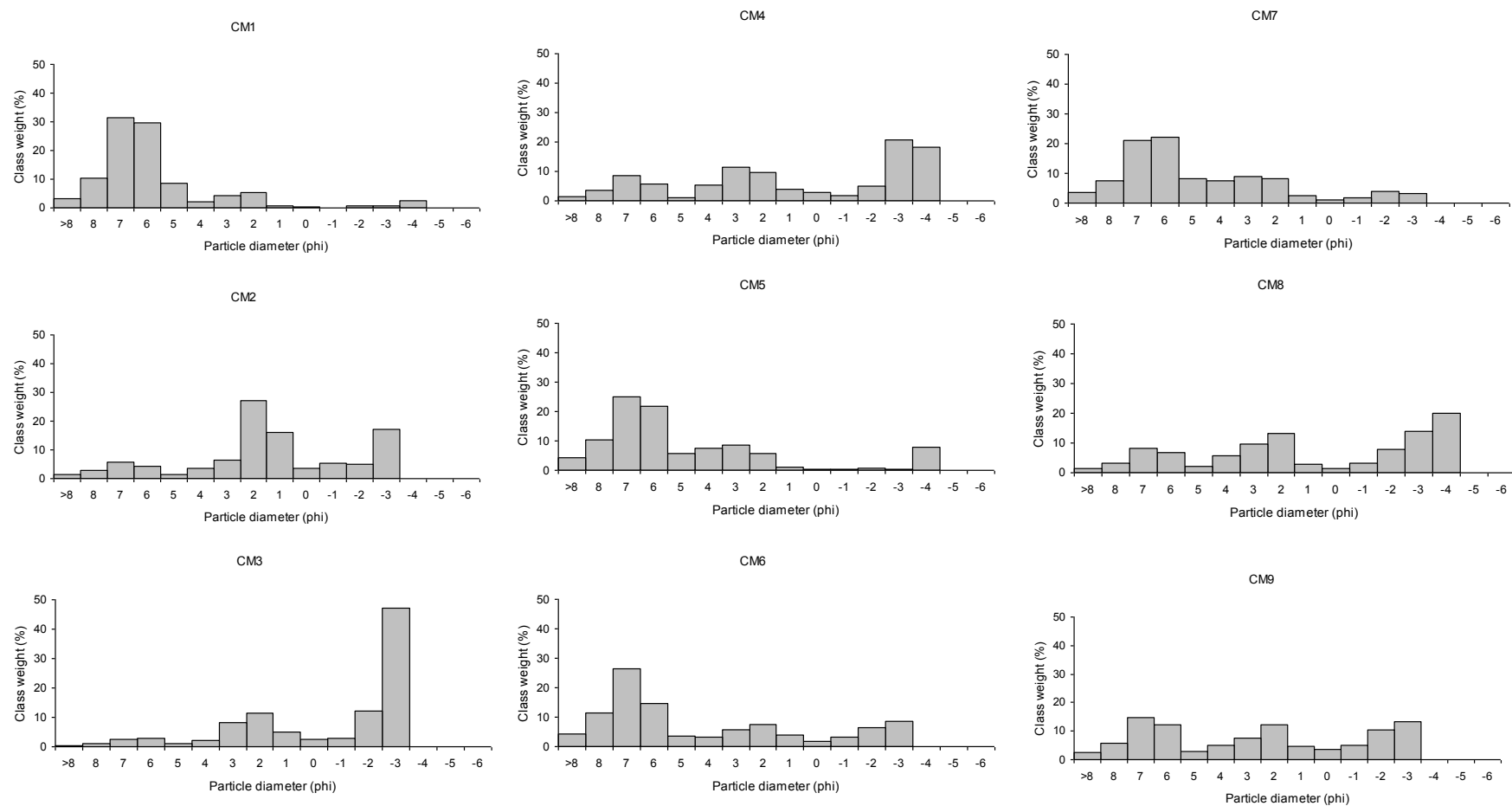


Figure III.G: Particle size distribution histograms for core CM (CM1 to CM9)

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

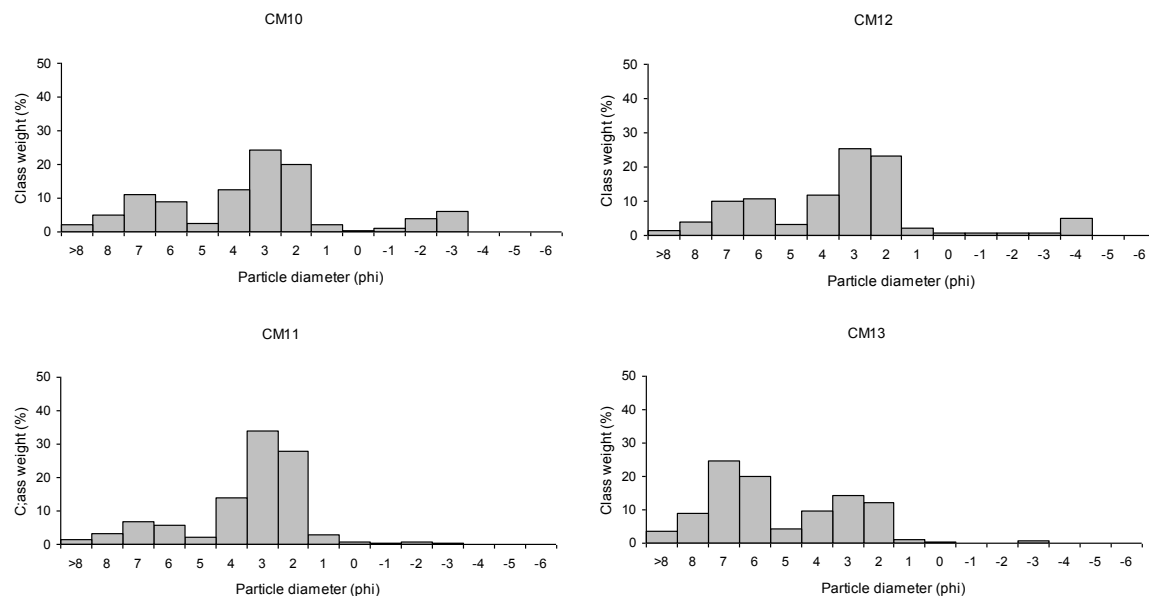


Figure III.G (continued): Particle size distribution histograms for core CM (CM10 to CM13)

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

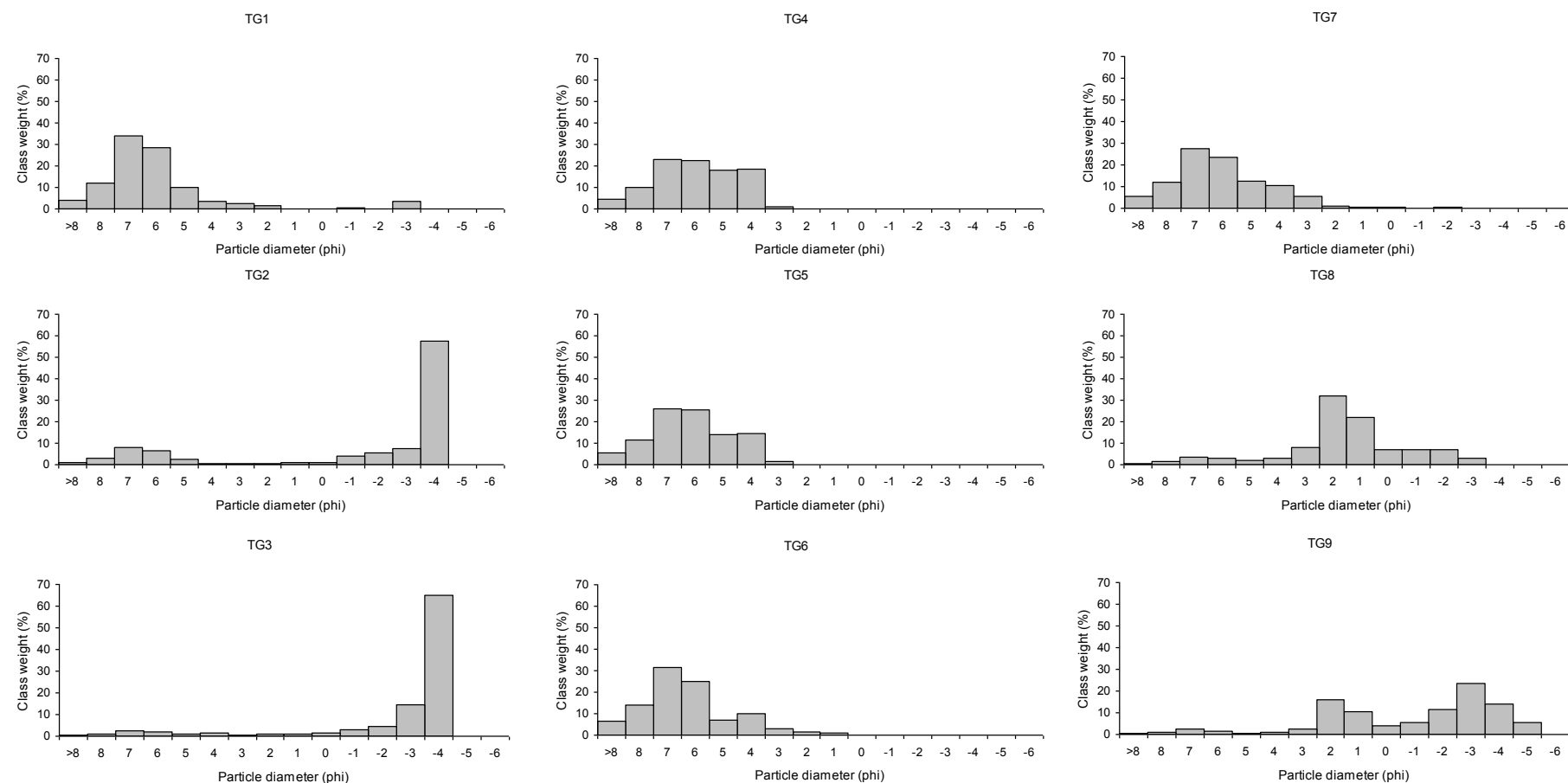


Figure III.H: Particle size distribution histograms for core TG (TG1 to TG9)

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

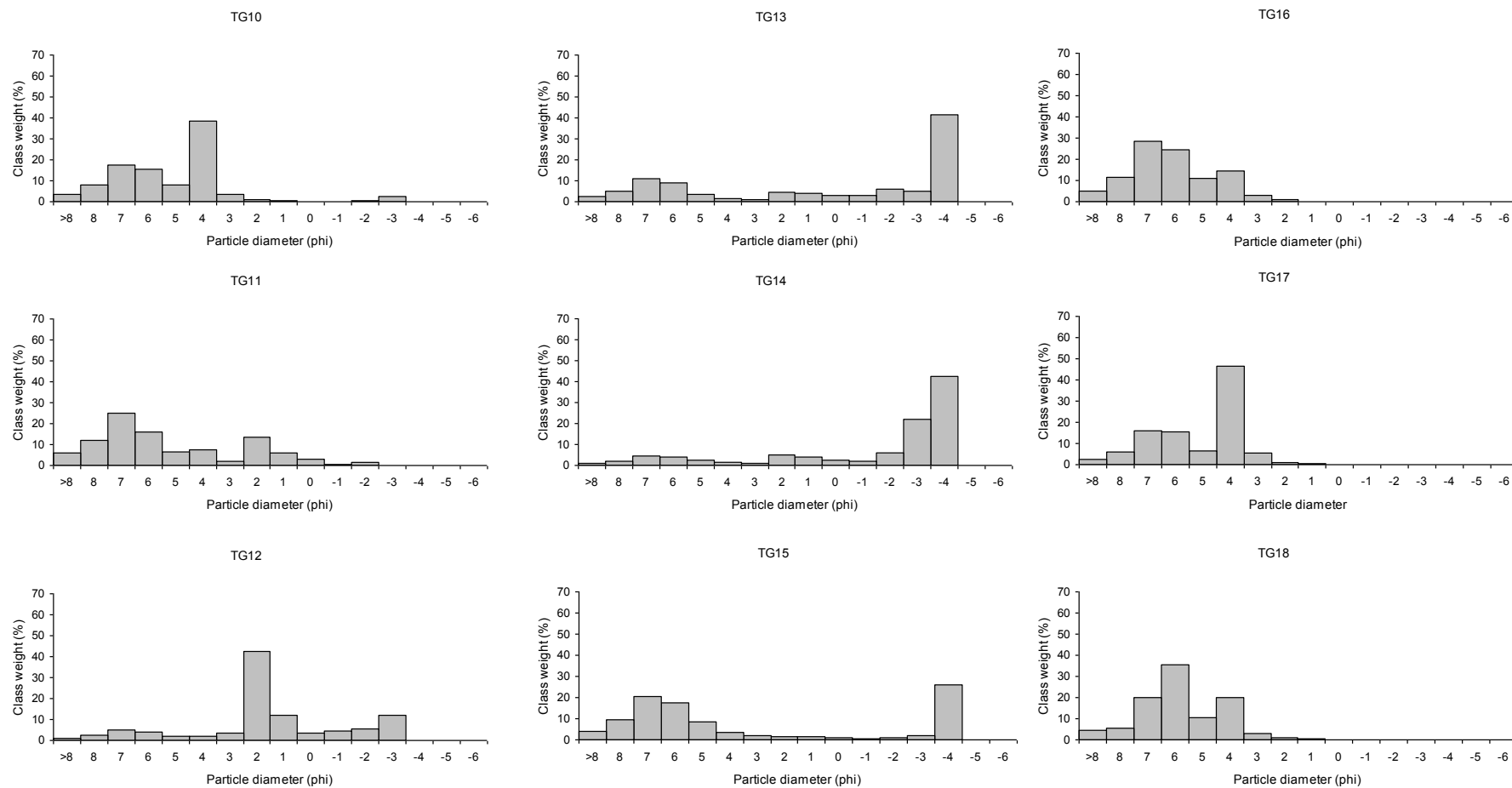


Figure III.H (continued): Particle size distribution histograms for core TG (TG10 to TG18)

Appendix III: Particle size analysis data and particle size distribution histograms for Gordano Valley sediments

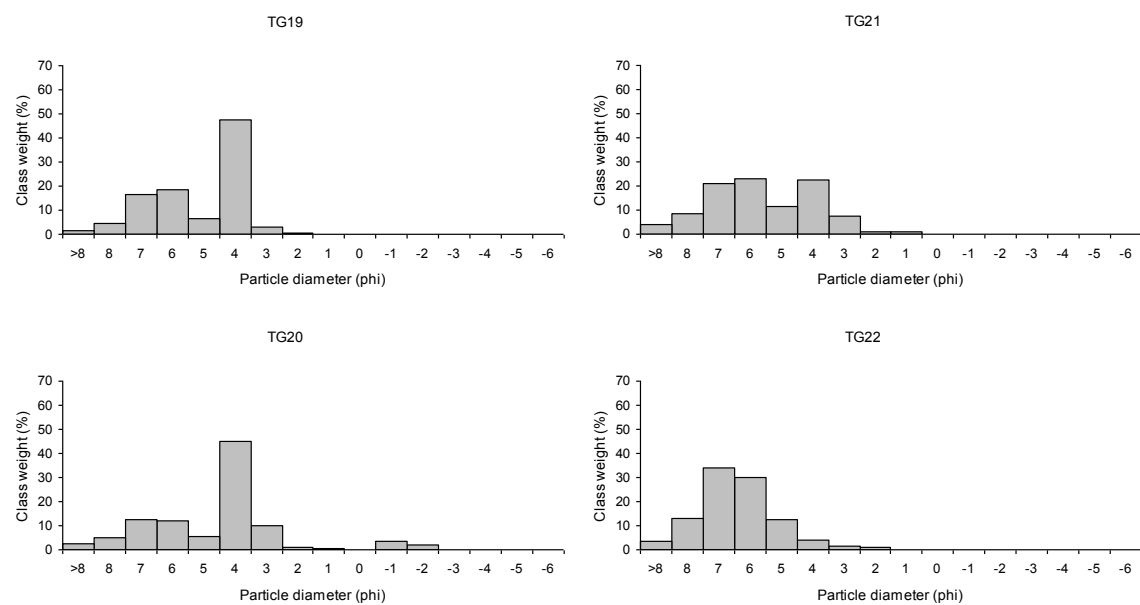


Figure III.H (continued): Particle size distribution histograms for core TG (TG19 to TG22)