

Appendix IV: Gravel analysis data for Gordano Valley sediments

This appendix contains complete data tables and figures showing the results of clast morphological, roundness, lithological and weathered condition analyses of the Gordano Valley gravels. Clast morphological analysis was applied to the -2 to -5 ϕ limestone fraction of gravel units in all cores, whilst lithological analysis was carried out on all clasts in the -2 to -5 ϕ size fraction of the gravel units. Surface features, including weathered condition, of only the component comprising limestone and all sandstone clasts of local lithology in the -2 to -5 ϕ size fraction of these units was assessed using the scheme set out in Chapter 4.

Low clast numbers (<30) in the -2 to -5 ϕ fraction of gravel units GV2, GV4, GV5, PG6, PGA2, PGA3, CGB2, CGB9, NR4, NR5, NR14, NR15, NR17, NR19, NR24, TG2 and TG14 limits the usefulness of the information provided by these units, but is presented here in order to provide a full understanding of gravel clast morphological differences between units.

Clast morphological data

Clast morphological data for the Gordano Valley sediments are summarised in Tables IV.A to IV.H.

Table IV.A: Morphology, OPI and sphericity of limestone clasts of core GV (after Sneed & Folk 1958, Dobkins & Folk 1970)

Unit	Morphology										Sphericity Mean Sphericity	N ^o of clasts	
	Compact	Compact-Platy	Compact-Bladed	Compact-Elongate	Platy	Bladed	Elongate	Very-Platy	Very-Bladed	Very-Elongate			Mean OPI
GV11	0.00	14.71	17.65	0.00	23.53	17.65	11.76	8.82	5.88	0.00	-3.13	0.63	34
GV5	0.00	0.00	0.00	0.00	14.29	42.86	14.29	0.00	28.57	0.00	-2.01	0.57	7
GV4	0.00	16.67	0.00	0.00	16.67	33.33	33.33	0.00	0.00	0.00	0.97	0.63	6
GV3	8.75	10.00	11.25	5.00	17.50	26.25	8.75	3.75	6.25	2.50	-1.21	0.65	80
GV2	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	5.32	0.86	1

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Table IV.B: Morphology, OPI and sphericity of limestone clasts of core PG
(after Sneed & Folk 1958, Dobkins & Folk 1970)

	Morphology											Sphericity	N ^o of clasts
	Unit	Compact	Compact-Platy	Compact-Bladed	Compact-Elongate	Platy	Bladed	Elongate	Very-Platy	Very-Bladed	Very-Elongate	Mean OPI	Mean Sphericity
PG7	13.51	18.92	16.22	8.11	13.51	13.51	5.41	2.70	5.41	2.70	-1.03	0.69	37
PG6	50.00	0.00	0.00	0.00	50.00	0.00	0.00	0.00	0.00	0.00	-5.00	0.70	2

Table IV.C: Morphology, OPI and sphericity of limestone clasts of core PGA
(after Sneed & Folk 1958, Dobkins & Folk 1970)

	Morphology											Sphericity	N ^o of clasts
	Unit	Compact	Compact-Platy	Compact-Bladed	Compact-Elongate	Platy	Bladed	Elongate	Very-Platy	Very-Bladed	Very-Elongate	Mean OPI	Mean Sphericity
PGA14	7.08	10.42	15.42	8.33	14.58	27.08	7.50	4.58	4.58	0.42	-1.22	0.66	244
PGA3	5.88	0.00	11.76	35.29	11.76	29.41	0.00	0.00	5.88	0.00	-0.21	0.70	17
PGA2	6.25	6.25	6.25	6.25	25.00	31.25	6.25	6.25	6.25	0.00	-3.00	0.63	16

Table IV.D: Morphology, OPI and sphericity of limestone clasts for core CGA
(after Sneed & Folk 1958, Dobkins & Folk 1970)

	Morphology											Sphericity	N ^o of clasts
	Unit	Compact	Compact-Platy	Compact-Bladed	Compact-Elongate	Platy	Bladed	Elongate	Very-Platy	Very-Bladed	Very-Elongate	Mean OPI	Mean Sphericity
CGA4	1.72	1.72	18.97	13.79	15.52	25.86	12.07	8.62	1.72	0.00	-2.12	0.65	59

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Table IV.E: Morphology, OPI and sphericity of limestone clasts of core CGB
(after Sneed & Folk 1958, Dobkins & Folk 1970)

Unit	Morphology											Sphericity	N ^o of clasts
	Compact	Compact-Platy	Compact-Bladed	Compact-Elongate	Platy	Bladed	Elongate	Very-Platy	Very-Bladed	Very-Elongate	Mean OPI	Mean Sphericity	
CGB13	0.00	8.11	16.22	13.51	8.11	29.73	8.11	8.11	8.11	0.00	-0.72	0.64	38
CGB9	4.00	16.00	16.00	8.00	12.00	20.00	8.00	4.00	12.00	0.00	-1.58	0.65	25
CGB7	4.71	1.18	16.47	16.47	9.41	28.24	11.76	2.35	9.41	0.00	0.40	0.67	85
CGB2	12.50	0.00	0.00	25.00	12.50	50.00	0.00	0.00	0.00	0.00	-1.10	0.68	8
CGB1	5.45	7.27	10.91	9.09	7.27	20.00	20.00	10.91	7.27	1.82	-0.01	0.64	55

Table IV.F: Morphology, OPI and sphericity of limestone clasts of core NR
(after Sneed & Folk 1958, Dobkins & Folk 1970)

Unit	Morphology											Sphericity	N ^o of clasts
	Compact	Compact-Platy	Compact-Bladed	Compact-Elongate	Platy	Bladed	Elongate	Very-Platy	Very-Bladed	Very-Elongate	Mean OPI	Mean Sphericity	
NR24	0.00	4.76	23.81	4.76	28.57	28.57	0.00	9.52	0.00	0.00	-2.38	0.65	21
NR21	3.33	0.00	10.00	13.33	6.67	20.00	26.67	10.00	10.00	0.00	0.31	0.64	30
NR19	3.70	7.41	11.11	7.41	33.33	29.63	7.41	0.00	0.00	0.00	-1.55	0.65	28
NR17	0.00	11.11	0.00	22.22	22.22	11.11	11.11	22.22	0.00	0.00	-2.90	0.65	9
NR16	5.71	11.43	14.29	5.71	20.00	25.71	8.57	5.71	0.00	2.86	-1.47	0.66	35
NR15	0.00	25.00	25.00	25.00	0.00	25.00	0.00	0.00	0.00	0.00	-1.55	0.68	4
NR14	20.00	20.00	0.00	30.00	10.00	20.00	0.00	0.00	0.00	0.00	1.48	0.75	10
NR13	4.00	10.00	18.00	8.00	8.00	34.00	8.00	2.00	4.00	4.00	0.18	0.66	50
NR9	9.09	10.91	16.36	5.45	5.45	30.91	12.73	3.64	5.45	0.00	-0.34	0.68	55
NR7	2.38	9.52	15.48	13.10	15.48	21.43	9.52	4.76	7.14	1.19	-1.01	0.65	84
NR6	4.00	2.00	12.00	14.00	18.00	34.00	6.00	8.00	2.00	0.00	-2.44	0.64	50
NR5	16.67	0.00	50.00	0.00	0.00	16.67	0.00	0.00	16.67	0.00	-0.14	0.68	6
NR4	5.26	5.26	10.53	0.00	15.79	42.11	15.79	0.00	5.26	0.00	-0.25	0.64	19
NR2	3.09	10.31	10.31	13.40	17.53	21.65	10.31	7.22	4.12	2.06	-0.40	0.65	97

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Table IV.G: Morphology, OPI and sphericity of limestone clasts of core CM
(after Sneed & Folk 1958, Dobkins & Folk 1970)

Unit	Morphology											Sphericity	N° of clasts
	Compact	Compact-Platy	Compact-Bladed	Compact-Elongate	Platy	Bladed	Elongate	Very-Platy	Very-Bladed	Very-Elongate	Mean OPI	Mean Sphericity	
CM8	4.72	7.87	7.09	4.72	21.26	25.98	7.87	9.45	9.45	1.57	-2.64	0.61	128
CM4	1.89	13.21	7.55	7.55	11.32	32.08	15.09	5.66	3.77	1.89	-0.28	0.64	53
CM3	10.34	8.62	5.17	5.17	15.52	24.14	12.07	6.90	10.34	1.72	-0.95	0.64	59

Table IV.H: Morphology, OPI and sphericity of limestone clasts of core TG
(after Sneed & Folk 1958, Dobkins & Folk 1970)

Unit	Morphology											Sphericity	N° of clasts
	Compact	Compact-Platy	Compact-Bladed	Compact-Elongate	Platy	Bladed	Elongate	Very-Platy	Very-Bladed	Very-Elongate	Mean OPI	Mean Sphericity	
TG14	6.25	0.00	18.75	0.00	18.75	31.25	0.00	12.50	12.50	0.00	-5.02	0.58	16
TG13	8.82	5.80	17.65	5.88	8.82	14.71	11.76	14.71	11.76	0.00	-1.68	0.63	35
TG9	2.53	7.17	12.24	10.13	18.99	26.16	8.44	4.22	9.28	0.84	-1.35	0.64	241
TG3	0.00	3.23	12.90	29.03	9.68	25.81	12.90	6.45	0.00	0.00	0.27	0.69	31
TG2	9.09	0.00	9.09	18.18	27.27	27.27	0.00	0.00	9.09	0.00	-1.08	0.65	11

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Clast roundness data

Clast roundness data are summarised in Tables IV.J to IV.R.

Table IV.J: Roundness of limestone clasts of core GV

Unit	Roundness							N ^o of clasts
	% Very Angular	% Angular	% Sub-Angular	% Sub-Round	% Round	% Well Round	% Broken	
GV11	0.00	16.00	60.00	20.00	4.00	0.00	8.00	25
GV5	0.00	12.50	12.50	38.50	38.50	0.00	0.00	8
GV4	0.00	22.22	33.33	11.11	22.22	11.11	0.00	9
GV3	0.00	10.98	40.24	20.73	21.95	6.10	27.50	80
GV2	0.00	0.00	0.00	100.00	0.00	0.00	0.00	1

Table IV.K: Roundness of limestone clasts of core PG

Unit	Roundness							N ^o of clasts
	% Very Angular	% Angular	% Sub-Angular	% Sub-Round	% Round	% Well Round	% Broken	
PG7	0.00	46.15	30.77	19.23	3.85	0.00	12.50	37
PG6	0.00	0.00	0.00	100.00	0.00	0.00	0.00	2

Table IV.L Roundness of limestone clasts of core PGA

Unit	Roundness							N ^o of clasts
	% Very Angular	% Angular	% Sub-Angular	% Sub-Round	% Round	% Well Round	% Broken	
PGA14	18.40	60.74	16.56	4.29	0.00	0.00	7.36	163
PGA3	0.00	42.86	35.71	21.43	0.00	0.00	0.00	14
PGA2	6.25	56.25	25.00	6.25	6.25	0.00	6.25	16

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Table IV.M Roundness of limestone clasts of core CGA

Unit	Roundness						N ^o of clasts	
	% Very Angular	% Angular	% Sub-Angular	% Sub-Round	% Round	% Well Round		% Broken
CGA4	6.67	35.56	33.33	20.00	4.44	0.00	11.11	59

Table IV.N: Roundness of limestone clasts of core CGB

Unit	Roundness						N ^o of clasts	
	% Very Angular	% Angular	% Sub-Angular	% Sub-Round	% Round	% Well Round		% Broken
CGB13	10.00	30.00	50.00	10.00	0.00	0.00	0.00	10
CGB9	0.00	20.00	55.00	15.00	10.00	0.00	0.00	20
CGB7	0.00	38.70	37.63	18.28	4.30	1.08	12.90	93
CGB2	0.00	50.00	12.50	25.00	12.50	0.00	12.50	8
CGB1	3.13	32.81	31.25	21.88	9.38	1.56	10.94	64

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Table IV.P: Roundness of limestone clasts of core NR

Unit	Roundness							N° of clasts
	% Very Angular	% Angular	% Sub-Angular	% Sub-Round	% Round	% Well Round	% Broken	
NR24	66.67	27.78	5.56	0.00	0.00	0.00	0.00	18
NR21	58.97	41.03	0.00	0.00	0.00	0.00	2.56	39
NR19	12.50	50.00	25.00	12.50	0.00	0.00	0.00	24
NR17	50.00	25.00	12.50	12.50	0.00	0.00	0.00	8
NR16	5.71	45.71	34.29	14.29	0.00	0.00	11.43	35
NR15	0.00	75.00	25.00	0.00	0.00	0.00	25.00	4
NR14	6.67	46.67	20.00	20.00	6.67	0.00	20.00	15
NR13	3.57	39.29	37.50	17.86	1.79	0.00	10.71	56
NR9	11.86	45.76	22.03	16.95	1.69	1.69	13.56	59
NR7	11.22	39.80	31.63	16.33	1.02	0.00	7.14	98
NR6	13.46	44.23	25.00	15.38	1.92	0.00	3.85	52
NR5	0.00	75.00	12.50	0.00	12.50	0.00	12.50	8
NR4	13.33	33.33	26.67	20.00	6.67	0.00	0.00	15
NR2	15.89	43.93	23.36	15.89	0.93	0.00	14.15	107

Table IV.Q: Roundness of limestone clasts of core CM

Unit	Roundness							N° of clasts
	% Very Angular	% Angular	% Sub-Angular	% Sub-Round	% Round	% Well Round	% Broken	
CM8	14.44	52.22	24.44	8.89	0.00	0.00	5.56	90
CM4	0.00	29.79	36.17	29.79	4.26	0.00	8.51	47
CM3	2.78	36.11	33.33	23.61	4.17	0.00	18.06	96

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Table IV.R: Roundness of limestone clasts of core TG

Unit	Roundness							N° of clasts
	% Very Angular	% Angular	% Sub-Angular	% Sub-Round	% Round	% Well Round	% Broken	
TG14	18.75	31.25	31.25	12.50	6.25	0.00	18.75	16
TG13	5.71	40.00	34.29	20.00	0.00	0.00	22.86	35
TG9	9.32	38.71	21.15	23.30	6.81	0.72	20.07	279
TG3	37.50	34.38	12.50	15.63	0.00	0.00	31.25	32
TG2	22.22	33.33	22.22	11.11	11.11	0.00	11.11	9

Clast lithological data

Clast lithological data for the Gordano Valley sediments are summarised in Tables IV.S to IV.Z.

Table IV.S: Clast lithological analysis of core GV

Unit	Local				Exotics				N° of clasts
	Limestone %	Brown sandstone %	Other local %	Total %	Quartz & quartzite %	Flint %	Other exotics %	Total %	
GV11	58.14	13.95	13.96	86.05	13.95	0.00	0.00	13.95	43
GV5	57.14	14.29	7.14	78.57	21.43	0.00	0.00	21.43	14
GV4	60.00	40.00	0.00	100.00	0.00	0.00	0.00	0.00	15
GV3	70.69	14.65	7.77	93.11	6.03	0.86	0.00	6.89	116
GV2	14.29	85.71	0.00	100.00	0.00	0.00	0.00	0.00	7

Table IV.T: Clast lithological analysis of core PG

Unit	Local				Exotics				N° of clasts
	Limestone %	Brown sandstone %	Other local %	Total %	Quartz & quartzite %	Flint %	Other exotics %	Total %	
PG7	22.32	50.00	13.39	85.71	11.61	0.89	1.79	14.29	112
PG6	14.29	71.43	0.00	85.72	14.29	0.00	0.00	14.29	7

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Table IV.U: Clast lithological analysis of core PGA gravel units

Unit	Local				Exotics				N° of clasts
	Limestone %	Brown sandstone %	Other local %	Total %	Quartz & quartzite %	Flint %	Other exotics %	Total %	
PGA14	27.00	54.33	14.17	95.50	3.83	0.67	0.00	4.50	600
PGA3	56.00	16.00	15.00	87.00	8.00	5.00	0.00	13.00	20
PGA2	64.29	17.89	10.71	92.89	7.14	0.00	0.00	7.14	28

Table IV.V: Clast lithological analysis of CGA4

Local				Exotics				N° of clasts
Limestone %	Brown sandstone %	Other local %	Total %	Quartz & quartzite %	Flint %	Other exotics %	Total %	
61.64	15.07	9.59	86.30	8.22	5.48	0.00	13.70	73

Table IV.W: Clast lithological analysis of core CGB gravel units

Unit	Local				Exotics				N° of clasts
	Limestone %	Brown sandstone %	Other local %	Total %	Quartz & quartzite %	Flint %	Other exotics %	Total %	
CGB 13	12.50	68.75	11.25	92.50	6.25	1.25	0.00	7.50	80
CGB9	37.04	42.59	11.11	90.74	7.41	1.85	0.00	9.26	54
CGB7	61.59	15.23	15.24	92.06	5.29	2.65	0.00	7.94	151
CGB2	90.00	0.00	0.00	90.00	10.00	0.00	0.00	10.00	10
CGB1	67.01	18.55	5.17	90.73	5.15	4.12	0.00	9.27	97

Table IV.X: Clast lithological analysis of core NR gravel units

Unit	Local				Exotics				N° of clasts
	Limestone %	Brown sandstone %	Other local %	Total %	Quartz & quartzite %	Flint %	Other exotics %	Total %	
NR24	58.06	16.13	9.68	83.87	16.13	0.00	0.00	16.13	31
NR21	69.64	16.07	14.29	100.00	0.00	0.00	0.00	0.00	56
NR19	64.86	18.93	16.22	100.00	0.00	0.00	0.00	0.00	37
NR17	80.00	10.00	10.00	100.00	0.00	0.00	0.00	0.00	10
NR16	85.37	4.88	2.44	97.56	0.00	2.44	0.00	2.44	41
NR15	80.00	0.00	20.00	100.00	0.00	0.00	0.00	0.00	5
NR14	93.75	6.26	0.00	100.00	0.00	0.00	0.00	0.00	16
NR13	64.47	18.07	6.04	91.58	4.81	3.61	0.00	8.42	83
NR9	54.13	30.27	10.10	94.50	1.83	0.92	2.75	5.50	109
NR7	73.13	13.43	10.45	97.01	2.24	0.75	0.00	2.99	134
NR6	77.61	13.57	2.85	94.03	4.48	0.00	1.49	5.97	67
NR5	66.67	0.00	16.66	83.33	16.66	0.00	0.00	16.66	12
NR4	53.57	35.71	10.71	100.00	0.00	0.00	0.00	0.00	28
NR2	56.08	17.99	20.64	94.71	5.29	0.00	0.00	5.29	189

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Table IV.Y: Clast lithological analysis of core CM gravel units

Unit	Local				Exotics				N° of clasts
	Limestone %	Brown sandstone %	Other local %	Total %	Quartz & quartzite %	Flint %	Other exotics %	Total %	
CM8	54.88	26.22	7.92	89.02	9.76	0.61	0.61	10.37	164
CM4	69.56	8.60	3.00	81.16	15.94	2.90	0.00	15.94	69
CM3	75.00	11.46	8.33	94.79	3.13	2.08	0.00	3.13	96

Table IV.Z: Clast lithological analysis of core TG gravel units

Unit	Local				Exotics				N° of clasts
	Limestone %	Brown sandstone %	Other local %	Total %	Quartz & quartzite %	Flint %	Other exotics %	Total %	
TG14	84.21	5.26	0.00	89.47	10.53	0.00	0.00	10.53	19
TG13	67.31	15.39	13.46	96.16	3.84	0.00	0.00	3.84	52
TG9	74.60	12.57	5.61	92.78	5.08	2.14	0.00	7.22	373
TG3	82.05	12.82	0.00	94.87	2.56	2.56	0.00	5.12	39
TG2	45.00	30.00	15.00	90.00	10.00	0.00	0.00	10.00	20

Weathered condition of gravel clasts

Data for the weathered condition of gravel units of the Gordano Valley sediments are presented in Tables IV.AA to IV.AH. In these tables, weathered condition is assessed using a scale of 1-5 where 1 = completely weathered and 5 = fresh.

Table IV.AA: Weathered condition of clasts in core GV gravel units

	1	2	3	4	5	N° of clasts
	GV11					
Limestone	0.00	52.00	20.00	16.00	12.00	25
Brown sandstone	0.00	0.00	66.67	33.33	0.00	6
Other local sandstones	20.00	20.00	40.00	20.00	0.00	5
GV5						
Limestone	0.00	37.50	12.50	50.00	0.00	8
Brown sandstone	0.00	0.00	100.00	0.00	0.00	2
GV4						
Limestone	0.00	0.00	11.11	77.78	11.11	9
Brown sandstone	16.67	33.33	16.67	33.33	0.00	6
GV3						
Limestone	0.00	4.88	14.63	79.27	1.22	82
Brown sandstone	0.00	23.53	41.18	29.41	5.88	17
Other local sandstones	0.00	0.00	100.00	0.00	0.00	1
GV2						
Limestone	0.00	0.00	100.00	0.00	0.00	1
Brown sandstone	66.67	0.00	33.33	0.00	0.00	6

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Table IV.AB: Weathered condition of clasts in core PG gravel units

	1	2	3	4	5	N ^o of clasts
PG7						
Limestone	0.00	13.79	3.45	82.76	8.00	25
Brown sandstone	0.00	14.29	5.36	80.36	0.00	56
Other local lithologies	0.00	44.44	0.00	55.56	0.00	9
PG6						
Limestone	0.00	0.00	100.00	0.00	0.00	1
Brown sandstone	0.00	25.00	25.00	50.00	0.00	4
Other local lithologies	0.00	0.00	0.00	100.00	0.00	1

Table IV.AC: Weathered condition of clasts in core PGA gravel units

	1	2	3	4	5	N ^o of clasts
PGA14						
Limestone	0.62	47.53	37.04	11.73	3.09	162
Brown sandstone	1.23	8.59	9.51	78.53	2.15	326
Other local sandstones	0.00	6.06	3.03	84.85	6.06	33
PGA3						
Limestone	0.00	14.29	57.14	14.29	14.29	14
Brown sandstone	0.00	25.00	0.00	75.00	0.00	4
Other local sandstones	0.00	0.00	0.00	100.00	0.00	2
PGA2						
Limestone	0.00	22.22	55.56	16.67	5.56	18
Brown sandstone	0.00	20.00	20.00	60.00	0.00	5
Other local sandstones	0.00	33.33	0.00	66.67	0.00	3

Table IV.AD: Weathered condition of clasts in CGA4

	1	2	3	4	5	No of clasts
Limestone	0.00	13.33	48.89	35.56	2.22	45
Brown sandstone	0.00	36.36	0.00	63.64	0.00	11
Other local sandstones	0.00	0.00	0.00	100.00	0.00	2

Table IV.AE: Weathered condition of clasts in core CGB gravel units

	1	2	3	4	5	No of clasts
CGB13						
Limestone	0.00	90.00	0.00	10.00	0.00	10
Brown sandstone	3.64	23.64	34.55	32.73	5.45	55
Other local sandstones	0.00	16.67	33.33	50.00	0.00	6
CGB9						
Limestone	0.00	58.13	25.00	11.67	0.00	24
Brown sandstone	34.78	30.43	0.00	34.78	0.00	23
Other local sandstones	100.00	0.00	0.00	0.00	0.00	1
CGB7						
Limestone	2.15	31.18	50.54	15.05	1.08	93
Brown sandstone	8.70	30.43	13.04	43.48	4.35	23
Other local sandstones	7.14	21.43	7.14	57.14	7.14	14
CGB2						
Limestone	0.00	11.11	33.33	44.44	11.11	9
CGB1						
Limestone	0.00	7.69	58.46	32.31	1.54	65
Brown sandstone	0.00	5.56	5.56	55.56	33.33	18
Other local sandstones	0.00	0.00	100.00	0.00	0.00	1

Appendix IV: Gravel analysis data for Gordano Valley sediments

Table IV.AF: Weathered condition of clasts in core NR gravel units

	1	2	3	4	5	No of clasts
NR24						
Limestone	0.00	72.22	27.78	0.00	0.00	18
Brown sandstone	20.00	0.00	60.00	20.00	0.00	5
Other local sandstones	0.00	0.00	0.00	50.00	50.00	2
NR21						
Limestone	0.00	41.03	20.51	35.90	2.56	39
Brown sandstone	0.00	11.11	44.44	44.44	0.00	9
Other local sandstones	0.00	0.00	20.00	80.00	0.00	5
NR19						
Limestone	4.17	20.83	54.17	20.83	0.00	24
Brown sandstone	0.00	28.57	14.29	28.57	28.57	7
Other local sandstones	0.00	40.00	20.00	40.00	0.00	5
NR17						
Limestone	0.00	50.00	25.00	25.00	0.00	8
Brown sandstone	0.00	0.00	0.00	100.00	0.00	1
Other local sandstones	0.00	0.00	0.00	100.00	0.00	1
NR16						
Limestone	0.00	14.29	54.29	28.57	2.86	35
Brown sandstone	0.00	0.00	50.00	0.00	50.00	2
Other local sandstones	0.00	50.00	0.00	0.00	50.00	2
NR15						
Limestone	0.00	0.00	50.00	50.00	0.00	4
Other local sandstones	0.00	0.00	0.00	0.00	100.00	1
NR14						
Limestone	0.00	0.00	20.00	80.00	0.00	15
Brown sandstone	0.00	0.00	0.00	100.00	0.00	1
NR13						
Limestone	0.00	5.36	81.43	23.21	0.00	56
Brown sandstone	0.00	7.14	7.14	71.43	14.29	14
Other local sandstones	0.00	0.00	0.00	100.00	0.00	2
NR9						
Limestone	0.00	3.39	33.90	62.71	0.00	59
Brown sandstone	0.00	3.03	3.03	93.94	0.00	33
Other local sandstones	0.00	0.00	0.00	85.74	14.29	7
NR7						
Limestone	0.00	7.14	48.98	40.82	3.06	98
Brown sandstone	0.00	0.00	11.11	88.89	0.00	18
Other local sandstones	0.00	16.67	0.00	66.67	16.67	6
NR6						
Limestone	0.00	5.77	48.08	40.38	5.77	52
Brown sandstone	0.00	0.00	22.22	77.78	0.00	9
Other local sandstones	0.00	0.00	0.00	100.00	0.00	2
NR5						
Limestone	0.00	0.00	37.50	50.00	12.50	8
Other local sandstones	0.00	0.00	0.00	100.00	0.00	2
NR4						
Limestone	0.00	0.00	40.00	60.00	0.00	15
Brown sandstone	0.00	0.00	10.00	80.00	10.00	10
Other local sandstones	0.00	0.00	0.00	100.00	0.00	1
NR2						
Limestone	0.00	0.94	30.19	66.98	1.89	106
Brown sandstone	0.00	23.53	8.82	67.65	0.00	34
Other local sandstones	0.00	0.00	0.00	100.00	0.00	12

Appendix IV: Gravel analysis data for Gordano Valley sediments

Table IV.AG: Weathered condition of clasts in core CM gravel units

	1	2	3	4	5	No of clasts
CM8						
Limestone	0.00	10.00	28.89	48.89	12.22	90
Brown sandstone	0.00	16.28	25.58	58.14	0.00	43
Other local sandstones	0.00	30.00	10.00	60.00	0.00	10
CM4						
Limestone	0.00	2.08	50.00	45.83	2.08	48
Brown sandstone	0.00	0.00	16.67	66.67	16.67	6
CM3						
Limestone	0.00	4.17	50.00	44.44	1.39	72
Brown sandstone	0.00	9.09	0.00	81.82	9.09	11

Table IV.AH: Weathered condition of clasts in core TG gravel units

	1	2	3	4	5	No of clasts
TG14						
Limestone	0.00	6.25	25.00	62.50	6.25	16
Brown sandstone	0.00	0.00	0.00	100.00	0.00	1
TG13						
Limestone	0.00	2.86	31.43	62.86	2.86	35
Brown sandstone	0.00	0.00	0.00	100.00	0.00	8
Other local sandstones	0.00	0.00	0.00	100.00	0.00	4
TG9						
Limestone	0.00	1.80	39.93	55.76	2.52	278
Brown sandstone	0.00	8.51	6.38	85.11	0.00	47
Other local sandstones	0.00	20.00	0.00	60.00	20.00	5
TG3						
Limestone	0.00	3.13	25.00	71.88	0.00	32
Brown sandstone	0.00	20.00	0.00	80.00	0.00	5
TG2						
Limestone	0.00	11.11	44.44	44.44	0.00	9
Brown sandstone	0.00	16.67	0.00	83.33	0.00	6
Other local sandstones	0.00	0.00	33.33	66.67	0.00	3