Provenance and sediment characteristics of contemporary gravel deposits at Sellicks Beach, eastern shore of Gulf St Vincent, South Australia

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SUPPLEMENTARY PAPERS

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Table 1 Numerical data for selected clasts at Site #4, Cactus Canyon, Sellicks

Beach. GPS 35°20'29.64"S, 138°26'16.41"E.

Location: CACTUS CANYON (GPS 35°20'29.64"S 138°26'16.41"E) – site #4									
Sample number	a axis (cm)	b axis (cm)	c axis (cm)	c axis/ a axis	(a axis–b axis)/ (a axis–c axis)	Folk classn	Weight (g)	Lithology	Shape
High berm									
1	162.00	93.28	27.19	0.17	0.51	VB	450	HS	SA
2	117.40	99.70	22.27	0.19	0.19	VP	360	HS	R
3	148.00	96.88	27.42	0.19	0.42	VB	630	HS	SR
4	62.20	47.83	12.74	0.20	0.29	VP	50	HS	SR
5	87.06	44.74	8.63	0.10	0.54	VB	110	BF	SA
6	190.00	139.42	27.36	0.14	0.31	VP	1100	SHF	SA
7	218.00	140.90	42.00	0.19	0.44	VB	1600		SR
8	247.00	161.50	26.79	0.11	0.39	VB	1220	BF	SR
9	285.00	99.23	32.45	0.11	0.74	VE	1170	HS	SR
Average weight (g) =							743		
Middle berm									
1	162.00	125.00	39.45	0.24	0.30	VP	1060	HS	SR
2	92.60	59.40	11.67	0.13	0.41	VB	140	BF	R
3	159.00	78.44	26.16	0.16	0.61	VB	490	HS	SR
4	124.10	71.37	16.09	0.13	0.49	VB	300	HS	R
5	50.08	29.41	28.01	0.56	0.94	CE	25	WGq	SA
6	76.50	47.03	14.70	0.19	0.48	VB	50	HS	SR
7	68.86	53.41	17.77	0.26	0.30	VP	75	BF	R
8	193.00	159.00	32.97	0.17	0.21	VP	1680	HS	SR
9	168.00	129.35	21.99	0.13	0.26	VP	700	BF	SR
Average weight (g) =							502		
Low berm									
1	118.92	81.59	23.84	0.20	0.39	VB	240	HS	SR
2	85.09	59.79	13.86	0.16	0.36	VB	70	BF	A
3	91.24	77.75	17.52	0.19	0.18	VP	180	HS	SA
4	148.00	117.29	34.89	0.24	0.27	VP	900	BF	R
5	91.87	35.71	11.11	0.12	0.70	VE	50		A
6	154.91	68.22	15.28	0.10	0.62	VB	250	HS	SA
7	83.57	53.65	19.36	0.23	0.47	VB	125	BF	SR
8	117.90	114.73	32.95	0.28	0.04	VP	560	HS	SA
9	103.02	68.34	35.62	0.35	0.51	B	375	BF	SR
Average weight (g) =							306		
Folk Classification		Lithology				Shape			
C	Compact	HS	Heatherdale Shale				WR	Well rounded	
P	Platy	BF	Wilpena Group: Brachina Formation				R	Rounded	
B	Bladed	SHF	Sellick Hill Formation				SR	Sub-rounded	
E	Elongate	WGq	Wilpena Group: unnamed quartzite				SA	Sub-angular	
V	Very	WF	Wangkonda Formation				A	Angular	
		MTF	Mount Terrible Formation						

Table 2 Numerical data for selected clasts at Site #3, Sellicks Beach. GPS

35°20'19.56"S, 138°26'21.34"E.

Location (GPS 35°20'19.56"S 138°26'21.34"E) – site #3									
Sample number	a-axis (cm)	b-axis (cm)	c-axis (cm)	c-axis/a-axis	(a axis–b axis)/ (a axis–c axis)	Folk classn	Weight (g)	Lithology	Shape
High berm									
1	207.00	119.16	26.91	0.13	0.49	VB	750	HS	SR
2	88.56	67.56	13.24	0.15	0.28	VP	100	BF	SA
3	111.73	88.39	22.95	0.21	0.26	VP	275	BF	R
4	180.50	112.95	32.28	0.18	0.46	VB	800	HS	R
5	197.00	124.00	32.11	0.16	0.44	VB	1375	WGq	A
6	209.00	138.18	44.74	0.21	0.43	VB	1770	HS	R
7	109.79	80.32	22.08	0.20	0.34	VB	175	BF	SR
8	170.50	78.35	23.44	0.14	0.63	VB	400	BF	SR
9	175.00	71.51	16.99	0.10	0.65	VB	325	BF	SR
Average weight (g) =							663		
Middle berm									
1	115.23	85.96	68.08	0.59	0.62	CB	925	WGq	A
2	100.67	76.06	32.12	0.32	0.36	B	300	BF	SR
3	148.11	73.92	19.52	0.13	0.58	VB	250	BF	SR
4	114.31	97.58	77.53	0.68	0.45	CB	900	WGq	SA
5	113.97	85.08	39.85	0.35	0.39	B	500	BF	SR
6	133.55	58.14	34.55	0.26	0.76	VE	250		SA
7	88.94	70.40	30.19	0.34	0.32	P	225	WGq	SA
8	62.43	37.40	19.28	0.31	0.58	B	25	BF	SR
9	56.44	47.82	26.90	0.48	0.29	P	40	WGq	A
Average weight (g) =							379		
Low berm									
1	230.00	185.00	135.00	0.59	0.47	CB	10150	MTF	SA
2	101.30	60.09	42.72	0.42	0.70	E	150	WGq	SA
3	243.00	192.00	149.00	0.61	0.54	CB	7575	WGq	A
4	174.00	150.00	103.7	0.60	0.34	CB	3100	WGq	SA
5	141.69	97.34	71.58	0.51	0.63	CB	1375	MTF	SR
6	222.00	114.75	99.15	0.45	0.87	E	3250	W	SR
7	157.16	128.51	89.79	0.57	0.43	CB	2150	WGq	A
8	280.00	196.00	157.00	0.56	0.68	CE	7350	WGq	A
9	54.89	39.53	24.60	0.45	0.51	B	50	WGq	SA
Average weight (g) =							3906		
Folk Classification		Lithology				Shape			
C	Compact	HS	Heatherdale Shale			WR	Well rounded		
P	Platy	BF	Wilpena Group: Brachina Formation			R	Rounded		
B	Bladed	SHF	Sellick Hill Formation			SR	Sub-rounded		
E	Elongate	WGq	Wilpena Group: unnamed quartzite			SA	Sub-angular		
V	Very	WF	Wangkonda Formation			A	Angular		
		MTF	Mount Terrible Formation						

Table 3 Numerical data for selected clasts at Site #2, Sellicks Beach. GPS

35°20'10.33"S, 138°26'26.14"E.

Location: (GPS 35°20'10.33"S 138°26'26.14"E) – site #2									
Sample number	a-axis (cm)	b-axis (cm)	c-axis (cm)	c-axis/ a-axis	(a axis–b axis)/ (a axis–c axis)	Folk classn	Weight (g)	Lithology	Shape
High berm									
1	62.69	51.66	23.74	0.38	0.28	P	110	WGq	SR
2	55.88	42.68	17.78	0.32	0.35	B	80	WGq	SR
3	46.57	32.25	20.20	0.43	0.54	B	50	BF	SR
4	44.33	29.21	14.20	0.32	0.50	B	30	WGq	SA
5	68.76	51.09	20.18	0.29	0.36	VB	120	BF	SR
6	71.75	47.42	30.46	0.42	0.59	B	100	BF	SA
7	70.06	38.05	18.78	0.27	0.62	VB	90	WGq	SR
8	55.80	35.43	24.18	0.43	0.64	B	70	WGq	SA
9	31.71	28.87	28.46	0.90	0.87	C	30		SA
Average weight (g) =							76		
Middle berm									
1	77.61	66.37	59.85	0.77	0.63	C	350	WGq	SA
2	65.17	38.00	29.46	0.45	0.76	E	120	WGq	SR
3	102.76	70.87	46.62	0.45	0.57	B	400	BF	SR
4	60.17	51.11	36.25	0.60	0.38	CB	120	WGq	SA
5	68.49	41.45	16.40	0.24	0.52	VB	110	BF	SR
6	69.41	44.80	32.29	0.47	0.66	B	200	WGq	SA
7	59.08	43.24	39.06	0.66	0.79	CE	120	WGq	SA
8	115.32	86.75	54.89	0.48	0.47	B	700	BF	SR
9	101.37	93.95	34.32	0.34	0.11	P	450		SR
Average weight (g) =							286		
Low berm									
1	250.00	200.00	150.00	0.60	0.50	CB	5600	WGq	A
2	170.00	80.90	55.59	0.33	0.78	E	1007	WGq	SR
3	58.34	44.45	31.87	0.55	0.52	CB	250	BF	SR
4	79.52	67.82	33.01	0.42	0.25	P	300	BF	R
5	260.00	42.79	31.22	0.12	0.95	VE	2500	WGq	SR
6	215.00	41.29	32.39	0.15	0.95	VE	2000	WGq	SA
7	109.46	84.24	38.17	0.35	0.35	B	570		SR
8	73.78	55.24	26.00	0.35	0.39	B	200	BF	SR
9	138.47	93.25	53.44	0.39	0.53	B	1350	WGq	SA
Average weight (g) =							1531		
Folk Classification		Lithology				Shape			
C	Compact	HS	Heatherdale Shale			WR	Well rounded		
P	Platy	BF	Wilpena Group: Brachina Formation			R	Rounded		
B	Bladed	SHF	Sellick Hill Formation			SR	Sub-rounded		
E	Elongate	MGq	Wilpena Group: unnamed quartzite			SA	Sub-angular		
V	Very	WF	Wangkonda Formation			A	Angular		
		MTF	Mount Terrible Formation						

Table 4 Numerical data for selected clasts at Site #1, Boat ramp, Sellicks Beach.

GPS 35°19'48.63"S, 138°26'29.98"E.

Location: Boat Ramp (GPS 35°19'48.63"S 138°26'29.98"E) – site #1									
Sample number	a-axis (cm)	b-axis (cm)	c-axis (cm)	c-axis/a-axis	(a axis–b axis)/ (a axis–c axis)	Folk classn	Weight (g)	Lithology	Shape
High berm									
1	52.46	46.54	37.69	0.72	0.40	C	110	MTF	SA
2	70.02	57.47	29.70	0.42	0.31	P	120	WGq	SR
3	84.32	68.07	28.61	0.34	0.29	P	175	WGq	SA
4	50.56	40.75	25.89	0.51	0.40	CB	100	MTF	SR
5	52.52	42.62	29.07	0.55	0.42	CB	75	WGq	SA
6	44.64	39.40	21.09	0.47	0.22	P	65	WGq	SR
7	61.53	45.06	44.53	0.72	0.97	C	210	WGq	SA
8	57.07	46.67	17.14	0.30	0.26	P	90	WGq	SA
9	56.09	44.06	28.14	0.50	0.43	CB	65		WR
Average weight (g) =							112		
Middle berm									
1	38.53	31.60	11.45	0.30	0.26	P	7	WGq	SR
2	64.52	48.92	39.54	0.61	0.62	CB	110	WGq	SA
3	44.07	31.03	13.70	0.31	0.43	B	10	MTF	SA
4	74.02	63.55	38.83	0.52	0.30	CP	200	WGq	SR
5	27.73	27.08	15.24	0.55	0.05	CP	4	MTF	SR
6	39.26	29.13	22.82	0.58	0.62	CB	40	WGq	SA
7	53.61	31.75	24.25	0.45	0.74	E	50	WGq	SA
8	38.22	29.27	18.99	0.50	0.47	CB	20	WGq	SR
9	41.22	35.30	19.19	0.47	0.27	P	15	WGq	SR
Average weight (g) =							51		
Low berm									
1	31.46	23.01	13.26	0.42	0.46	B	4	WGq	SA
2	37.88	21.99	19.04	0.50	0.84	CE	10	BF	SR
3	61.93	41.44	28.58	0.46	0.61	B	115	W	R
4	73.29	46.95	27.73	0.38	0.58	B	125	BF	SR
5	75.35	49.57	25.39	0.34	0.52	B	150	WGq	SR
6	63.86	41.42	22.07	0.35	0.54	B	105	W	A
7	50.76	39.92	18.59	0.37	0.34	B	50	MTF	SA
8	36.95	33.15	19.70	0.53	0.22	CP	20	WGq	A
9	25.40	20.47	16.62	0.65	0.56	CB	4	WGq	SR
Average weight (g) =							65		
Folk Classification		Lithology				Shape			
C	Compact	HS	Heatherdale Shale			WR	Well rounded		
P	Platy	BF	Wilpena Group: Brachina Formation			R	Rounded		
B	Bladed	SHF	Sellick Hill Formation			SR	Sub-rounded		
E	Elongate	MGq	Wilpena Group: unnamed quartzite			SA	Sub-angular		
V	Very	WF	Wangkonda Formation			A	Angular		
		MTF	Mount Terrible Formation						