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# Appendix 5-1: Field Data

Waypoint	Location	Size (m)	C. granatina	S. granularis	S. argenvillei	S. barbara	C. meridionalis	Burnupena sp.	Kreef	Quartz	CCS	Silcrete	Quartzite	Other	Manuports	Pottery	OES	Bone	Notes
BOG1	S28 46 06.40 E16 34 12.58																		Estimated location. Klein <i>et al.</i> 1991 location is clearly incorrect.
BOG2	S28 46 07.20 E16 34 11.95																		Estimated location. Kaplan (2008) lists site as A16 but no co-ordinates provided.
A1																			Kaplan 2008.
A2																			Kaplan 2008.
A3																			Kaplan 2008.
A4																			Kaplan 2008.
A5																			Kaplan 2008.
A6																			Kaplan 2008.
A7																			Kaplan 2008.
A8																			Kaplan 2008.
A9																			Kaplan 2008.
A10																			Kaplan 2008.
A11																			Kaplan 2008.
A12																			Kaplan 2008.
A13																			Kaplan 2008.
A14																			Kaplan 2008.
A15																			Kaplan 2008.
Site 1																			Hart 2010. OES only, not archaeology.
Site 3		?	x	x	x					x						x	x		Hart 2010. Ephemeral.
Site 4										x		x							Hart 2010. Ephemeral background scatter.
4929	S28 43 47.3 E16 34 42.5	3	x	x	x												x		Ephemeral.
4930	S28 44 12.8 E16 34 38.4	5																	Small 20 <sup>th</sup> century glass and ceramic scatter
4931	S28 45 18.8 E16 33 59.7	n/a								x									Isolated quartz core.
4932	S28 45 50.1 E16 34 07.5	15	x	x	x	x							x						Shell midden.
4933	S28 45 47.9 E16 34 02.2	5	x		x														Ephemeral.
4934	S28 45 49.2 E16 34 16.2	n/a																x	Isolated whale bone
4935	S28 45 51.3 E16 34 20.5	5																x	Ephemeral shell and bone in front of rock shelter.
4936	S28 45 51.2 E16 34 20.0	5																x	Ephemeral shell and bone in front of rock shelter.
4937	S28 45 51.0 E16 34 10.7	10	x	x	x														Shell north of rock outcrop.
4938	S28 45 51.1 E16 34 11.0	2																	Small tone-walled windbreak north of rock outcrop.
4939	S28 47 05.3 E16 34 30.2	15	x	x	x			x			x								Possibly disturbed?

Waypoint	Location	Size (m)	C. granatina	S. granularis	S. argenvillei	S. barbara	C. meridionalis	Burnupena sp.	Kreef	Quartz	CCS	Silcrete	Quartzite	Other	Manuports	Pottery	OES	Bone	Notes
																			Lower grindstone.
4940	S28 47 06.5 E16 34 30.2	30	x	x	x			x		x									
4941	S28 47 06.3 E16 34 27.7	110	x	x	x	x	x	x		x	x						x		4941-4942 all one site.
4942	S28 47 09.5 E16 34 28.4																		Deflating out of dunes along edge of mine pit.
4943	S28 47 11.2 E16 34 28.5	20	x	x	x					x									
4944	S28 47 12.6 E16 34 28.8	110	x	x	x		x			x							x		See 4950-4952.
4945	S28 47 14.4 E16 34 27.3	10	x	x	x														
4946	S28 47 15.1 E16 34 27.0	10	x	x	x		x												
4947	S28 47 15.7 E16 34 27.3	10	x	x	x		x												
4948	S28 47 16.3 E16 34 28.1	?	x	x	x		x												Widespread shell scatter .
4949	S28 47 17.7 E16 34 29.8	20	x	x	x	x				x									
4950	S28 47 14.9 E16 34 30.7	110	x	x	x		x			x							x		4944, 4950-4952 all one site.
4951	S28 47 13.6 E16 34 30.0																		Multiple middens deflating out of dunes along edge of mine pit.
4952	S28 47 12.8 E16 34 29.1																		
4953	S28 47 45.0 E16 34 55.3	50	x	x	x		x			x					x	x	x		Complex of shell middens.
4954	S28 47 45.8 E16 34 55.0																		2x pot lugs. Decorated pottery (incised & impressed).
4955	S28 47 46.6 E16 34 55.1																		
4956	S28 47 46.4 E16 34 54.1																		
4957	S28 47 45.4 E16 34 54.2																		
4958	S28 47 47.4 E16 34 56.5	65	x	x	x		x	x		x	x				x		x		Complex of shell middens.
4959	S28 47 47.5 E16 34 55.7																		
4960	S28 47 48.6 E16 34 56.2																		
4961	S28 47 48.5 E16 34 55.6																		
4962	S28 47 49.1 E16 34 55.0																		
4963	S28 47 48.1 E16 34 54.9																		
4964	S28 47 47.2 E16 34 55.6																		
4965	S28 48 40.3 E16 35 27.9	15	x	x	x														
4966	S28 48 39.3 E16 35 28.0	60	x	x	x														4966-4969 all one site.
4967	S28 48 40.0 E16 35 29.5																		
4968	S28 48 38.9 E16 35 29.3																		
4969	S28 48 38.6 E16 35 28.6																		
4970	S28 48 35.5 E16 35 31.0	20	x	x	x	x													
4971	S28 48 35.6 E16 35 31.9	20	x	x	x	x													
4972	S28 48 35.7 E16 35 32.4	10	x	x	x														
4973	S28 48 34.7 E16 35 33.0	5	x	x	x	x													
4974	S28 48 34.4 E16 35 31.9	10	x	x	x														
4975	S28 48 36.1 E16 35 32.0	3	x	x	x														
4976	S28 48 38.3 E16 35 33.7	40	x	x	x														4976-4980 all one site.
4977	S28 48 38.5 E16 35 34.3																		
4978	S28 48 39.0 E16 35 34.6																		
4979	S28 48 39.5 E16 35 34.3																		

Waypoint	Location	Size (m)	C. granatina	S. granularis	S. argenvillei	S. barbara	C. meridionalis	Burnupena sp.	Kreef	Quartz	CCS	Silcrete	Quartzite	Other	Manuports	Pottery	OES	Bone	Notes
4980	S28 48 39.2 E16 35 33.7																		
4981	S28 48 40.1 E16 35 34.3	10	x	x	X														
4982	S28 48 40.2 E16 35 33.7	15	x	x	x														
4983	S28 48 41.2 E16 35 33.1	40	x	x	x														4983-4988 all one site.
4984	S28 48 40.8 E16 35 33.1																		
4985	S28 48 40.8 E16 35 33.6																		
4986	S28 48 41.1 E16 35 34.2																		
4987	S28 48 41.9 E16 35 34.1																		
4988	S28 48 41.6 E16 35 33.1																		
4989	S28 48 43.2 E16 35 30.9	10	x	x	x														
4990	S28 48 30.9 E16 35 33.5	5	x	x	x														
4991	S28 48 29.1 E16 35 40.1	5	x	x															
4992	S28 48 24.5 E16 35 47.2	?	x	x	x					x									Disturbed along edge of mine road.
4993	S28 48 23.9 E16 35 45.2	5	x	x	x														
4994	S28 48 23.7 E16 35 44.8	10	x	x	x														
4995	S28 48 23.1 E16 35 48.4	10	x	x	x		x												
4996	S28 48 20.7 E16 35 57.4	?	x	x	x														Disturbed along edge of mine road.
4997	S28 48 23.0 E16 35 58.1	5	x	x															Ephemeral.
4998	S28 48 24.7 E16 35 58.7	10	c	c															Ephemeral.
4999	S28 48 25.9 E16 35 59.3	20	x	x															Ephemeral.
5000	S28 48 24.0 E16 35 59.3	10	x	x															Ephemeral.
001	S28 48 23.4 E16 35 58.9	10	x	x															
002	S28 48 22.8 E16 35 58.9	10	x	x															
003	S28 48 22.1 E16 35 58.7	10	x	x	X														
004	S28 48 21.9 E16 35 58.2	20	x	x	x					x						X			
005	S28 48 18.6 E16 36 02.8	10	x	x	x					x							x		
006	S28 48 23.4 E16 36 05.4	5	x	x	x	x													
007	S28 48 24.4 E16 36 05.3	5	x		x														Ephemeral.
008	S28 48 19.8 E16 36 03.5	?	x	x	x												x		Disturbed by bulldozing.
009	S28 48 38.6 E16 36 31.4	35	x	x	x														009-012 all one site. Disturbed.
010	S28 48 38.6 E16 36 31.8																		
011	S28 48 38.4 E16 36 32.2																		
012	S28 48 39.2 E16 36 32.8																		
013	S28 49 56.5 E16 37 33.1	5	x	x	X														
014	S28 49 57.2 E16 37 33.3	10	x	x	X														
015	S28 49 59.8 E16 37 30.3	10	x	x															Ephemeral.
016	S28 50 00.7 E16 37 30.0	25	x	x	x					x							x		
017	S28 50 01.8 E16 37 29.4	5	x	x						x									Ephemeral.
018	S28 50 03.0 E16 37 25.8	5	x	x															Ephemeral.
019	S28 50 03.5 E16 37 25.8	5	x	x												x			Ephemeral.
020	S28 50 04.0 E16 37 25.8	10	x	x	x					x	x								Ephemeral.

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021	S28 50 04.8 E16 37 25.5	20	x	x	x												x		
022	S28 50 07.3 E16 37 21.7	?	x	x						x									Widespread ephemeral scatter in deflated valley between dunes.
023	S28 50 07.7 E16 37 21.8	n/a																	Isolated 20 <sup>th</sup> century glass bottle.
024	S28 50 08.1 E16 37 18.8	15	x	x	x		x	x				x							
025	S28 50 12.9 E16 37 15.0	20	x	x			x	x									x		
026	S28 50 13.6 E16 37 13.5	?																	Widespread ephemeral scatter in deflated valley between dunes.
027	S28 50 13.1 E16 37 12.1	10	x	x	x														
028	S28 50 13.4 E16 37 11.2	15	x	x	x														Ephemeral.
029	S28 50 13.9 E16 37 10.2	15	x	x	x		x												
030	S28 50 14.5 E16 37 09.6	?																	Widespread light scatter
031	S28 50 15.3 E16 37 09.5	370	x	x	x		x						x			x			033-077 all one site.
032	S28 50 15.0 E16 37 08.9																		Dunetop site.
033	S28 50 14.2 E16 37 08.0																		
034	S28 50 14.2 E16 37 08.5																		
035	S28 50 14.2 E16 37 08.9																		
036	S28 50 14.1 E16 37 09.3																		
037	S28 50 14.5 E16 37 10.1																		
038	S28 50 14.8 E16 37 10.4																		
039	S28 50 15.2 E16 37 10.8																		
040	S28 50 15.4 E16 37 11.4																		
041	S28 50 15.8 E16 37 12.2																		
042	S28 50 15.8 E16 37 12.6																		
043	S28 50 16.0 E16 37 13.1																		
044	S28 50 16.4 E16 37 13.7																		
045	S28 50 16.5 E16 37 14.5																		
046	S28 50 17.1 E16 37 15.0																		
047	S28 50 17.8 E16 37 15.0																		
048	S28 50 18.4 E16 37 15.6																		
049	S28 50 19.0 E16 37 15.8																		
050	S28 50 19.6 E16 37 15.7																		
051	S28 50 20.4 E16 37 15.9																		
052	S28 50 19.7 E16 37 15.2																		
053	S28 50 18.5 E16 37 14.9																		
054	S28 50 18.1 E16 37 13.6																		
055	S28 50 17.5 E16 37 14.0																		
056	S28 50 16.5 E16 37 13.2																		
057	S28 50 16.5 E16 37 12.6																		
058	S28 50 17.1 E16 37 12.6																		
059	S28 50 17.5 E16 37 12.7																		
060	S28 50 17.9 E16 37 13.0																		
061	S28 50 17.2 E16 37 12.2																		

Waypoint	Location	Size (m)	C. granatina	S. granularis	S. argenvillei	S. barbara	C. meridionalis	Burnupena sp.	Kreef	Quartz	CCS	Silcrete	Quartzite	Other	Manuports	Pottery	OES	Bone	Notes
062	S28 50 16.6 E16 37 11.6																		
063	S28 50 16.2 E16 37 11.3																		
064	S28 50 16.0 E16 37 10.6																		
065	S28 50 15.6 E16 37 10.2																		
066	S28 50 14.6 E16 37 09.4																		
067	S28 50 13.2 E16 37 08.0																		
068	S28 50 13.2 E16 37 08.6																		
069	S28 50 13.3 E16 37 09.5																		
070	S28 50 12.6 E16 37 09.5																		
071	S28 50 12.5 E16 37 08.6																		
072	S28 50 12.4 E16 37 08.0																		
073	S28 50 11.7 E16 37 08.0																		
074	S28 50 11.5 E16 37 08.5																		
075	S28 50 11.4 E16 37 09.0																		
076	S28 50 10.4 E16 37 09.2																		
077	S28 50 10.3 E16 37 09.7																		
078	S28 50 09.7 E16 37 12.5	?	x	x	x											x			Widespread ephemeral scatter in deflated valley between dunes.
079	S28 50 09.9 E16 37 13.9	15	x	x	x		x												
080	S28 50 07.4 E16 37 17.3	5	x	x															
081	S28 50 06.3 E16 37 19.5	15	x	x															
082	S28 50 04.9 E16 37 21.4	?	x	x	x														Widespread ephemeral scatter in deflated valley between dunes.
083	S28 49 59.7 E16 37 29.4	30	x	x	x												x		
084	S28 49 58.6 E16 37 30.2	20	x	x															Ephemeral.
085	S28 53 21.3 E16 40 08.5	15	x	x	x														Deflated in valley between dunes.
086	S28 56 14.6 E16 42 19.0	10	x	x	x					x									
087	S28 56 40.7 E16 42 40.3	30	x	x												x			Pot lug.
088	S28 56 43.7 E16 42 41.4	15	x	x			x		x								x		
089	S28 56 44.3 E16 42 39.8	130	x	x	x	x	x	x							x	x	x		089-107 all one site.
090	S28 56 43.7 E16 42 39.8																		Fragment of flat iron.
091	S28 56 43.2 E16 42 39.9																		093 may be a separate scatter.
092	S28 56 42.6 E16 42 39.5																		
093	S28 56 42.2 E16 42 39.0																		
094	S28 56 42.7 E16 42 38.9																		
095	S28 56 43.2 E16 42 38.5																		
096	S28 56 43.7 E16 42 39.0																		
097	S28 56 43.9 E16 42 38.6																		
098	S28 56 44.4 E16 42 38.4																		
099	S28 56 44.4 E16 42 38.4																		
100	S28 56 44.8 E16 42 38.0																		
101	S28 56 44.8 E16 42 38.6																		
102	S28 56 45.3 E16 42 39.5																		

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103	S28 56 45.0 E16 42 40.0																		
104	S28 56 45.4 E16 42 40.5																		
105	S28 56 45.9 E16 42 40.7																		
106	S28 56 46.2 E16 42 40.1																		
107	S28 56 46.4 E16 42 41.1																		
108	S28 56 50.6 E16 42 32.8	10	x	x															
109	S28 56 51.9 E16 42 33.5	15	x	x	x														Piece of harmonica.
110	S28 56 52.6 E16 42 33.9	15	x	x	x	x													
111	S28 56 54.5 E16 42 27.2	10	x	x			x			x							x		
112	S28 57 00.1 E16 42 16.6	15	x	x	x		x			x									
113	S28 57 07.3 E16 42 01.9	10	x	x	x														Ephemeral.
114	S28 57 07.2 E16 42 01.1	15	x	x	x				x		x								
115	S28 57 07.0 E16 42 00.7	10	x	x	x		x										x		
116	S28 57 09.0 E16 41 59.8	10	x	x	x			x		x							x		
117	S28 57 11.2 E16 41 55.5	15	x	x	x				x	x				x			x		
118	S28 57 10.5 E16 41 54.8	5	x	x	x														
119	S28 57 10.0 E16 41 54.8	5	x	x	x														
120	S28 57 09.4 E16 41 54.2	?	x	x	x					x					x				Disturbed.
121	S28 57 08.8 E16 41 54.4	10	x	x	x			x		x									
122	S28 57 08.2 E16 41 54.4	5	x	x	x										x				
123	S28 57 06.8 E16 41 54.4	15	x	x	x		x								x				
124	S28 57 06.3 E16 41 54.2	10	x	x	x					x					x				
125	S28 57 05.6 E16 41 54.0	5	x	x	x					x									
126	S28 57 04.9 E16 41 53.4	10	x	x	x														
127	S28 57 04.6 E16 41 53.1	5	x	x	x									x					
128	S28 57 04.3 E16 41 52.8	5	x	x	x										x				
129	S28 57 05.4 E16 41 51.9	50	x	x	x					x				x					129-134 all one site.
130	S28 57 05.8 E16 41 52.2																		
131	S28 57 05.2 E16 41 52.3																		
132	S28 57 04.6 E16 41 51.8																		
133	S28 57 05.2 E16 41 51.1																		
134	S28 57 04.4 E16 41 51.0																		
135	S28 57 03.3 E16 41 52.0	35	x	x	x					x									135-137 all one site.
136	S28 57 03.3 E16 41 51.4																		
137	S28 57 02.9 E16 41 52.1																		
138	S28 57 02.3 E16 41 51.4	5	x	x	x					x					x				
139	S28 57 01.9 E16 41 51.3	10	x	x	x	x		x						x					
140	S28 57 02.0 E16 41 50.7	10	x	x	x										x				
141	S28 57 00.3 E16 41 50.6	n/a																	Palaeo-beach deposit a few m above sea level.
142	S28 57 00.8 E16 41 51.0	10	x	x	x					x					x				
143	S28 57 00.7 E16 41 51.5	2	x	x	x					x									

Waypoint	Location	Size (m)	C. granatina	S. granularis	S. argenvillei	S. barbara	C. meridionalis	Burnupena sp.	Kreef	Quartz	CCS	Silcrete	Quartzite	Other	Manuports	Pottery	OES	Bone	Notes
144	S28 57 00.4 E16 41 54.0	?	x	x	x		x								x				Deflated in track through dunes.
145	S28 56 56.4 E16 42 01.7	5	x	x															
146	S28 56 50.7 E16 42 13.1	5	x	x				x											Ephemeral.
147	S28 56 48.2 E16 42 15.4	5	x	x															
148	S28 56 43.6 E16 42 22.1	15	x	x	x		x												
149	S28 56 43.4 E16 42 23.3	15	x	x	x			x		x	x								
150	S28 56 42.8 E16 42 24.4	20	x	x	x														150-154 all one site.
151	S28 56 42.3 E16 42 24.3																		
152	S28 56 42.6 E16 42 24.7																		
153	S28 56 42.6 E16 42 25.1																		
154	S28 56 43.0 E16 42 24.8																		
155	S28 56 41.7 E16 42 26.8	10	x	x	x	x	x							x					
156	S28 56 40.8 E16 42 30.3	10	x	x	x														
157	S28 56 39.5 E16 42 33.5	5	x	x	x	x													
158	S28 56 39.6 E16 42 34.2	5	x	x	x														
159	S28 56 39.3 E16 42 38.5	5	x	x	x		x	x											
160	S28 56 39.3 E16 42 38.9	5	x	x	x		x			x							x		
161	S28 56 38.9 E16 42 41.0	60	x	x	x														161-164 all one site.
162	S28 56 39.9 E16 42 42.0																		Deflating along the edge of a mine road.
163	S28 56 39.3 E16 42 41.6																		
164	S28 56 38.4 E16 42 40.7																		
165	S28 56 37.6 E16 42 39.8	10	x	x	x		x										x		
166	S28 56 37.6 E16 42 40.5	5	x	x	x		x												
167	S28 56 36.8 E16 42 39.8	30	x	x	x		x												167-169 all one site.
168	S28 56 36.7 E16 42 39.2																		
169	S28 56 36.3 E16 42 39.0																		
170	S28 56 34.6 E16 42 39.7	15	x	x	x														170-172 all one site.
171	S28 56 34.7 E16 42 40.1																		
172	S28 56 35.0 E16 42 39.9																		
173	S28 56 34.9 E16 42 40.7	10	x	x	x														
174	S28 56 34.3 E16 42 40.9	10	x	x	x														
175	S28 56 33.1 E16 42 40.0	50	x	x	x														175-184 all one site.
176	S28 56 32.7 E16 42 39.8																		
177	S28 56 32.9 E16 42 40.4																		
178	S28 56 32.7 E16 42 40.7																		
179	S28 56 32.4 E16 42 40.8																		
180	S28 56 32.4 E16 42 40.1																		
181	S28 56 32.1 E16 42 39.9																		
182	S28 56 31.9 E16 42 39.4																		
183	S28 56 31.5 E16 42 39.7																		
184	S28 56 31.7 E16 42 39.3																		



Waypoint	Location	Size (m)	C. granatina	S. granularis	S. argenvillei	S. barbara	C. meridionalis	Burnupena sp.	Kreef	Quartz	CCS	Silcrete	Quartzite	Other	Manuports	Pottery	OES	Bone	Notes
185	S28 56 29.8 E16 42 39.1	20	x	x	x		x												185-188 all one site.
186	S28 56 29.9 E16 42 39.5																		
187	S28 56 29.4 E16 42 39.6																		
188	S28 56 29.4 E16 42 39.2																		
189	S28 56 28.6 E16 42 39.0	20	x	x	x		x												
190	S28 56 27.5 E16 42 39.0	15	x	x	x		x												
191	S28 56 24.3 E16 42 39.2	15	x	x	x		x												
192	S28 56 23.3 E16 42 39.2	85	x	x	x		x	x		x							x		192-207 all one site.
193	S28 56 22.6 E16 42 39.0																		
194	S28 56 22.6 E16 42 38.6																		
195	S28 56 22.9 E16 42 38.2																		
196	S28 56 23.0 E16 42 38.6																		
197	S28 56 22.5 E16 42 39.2																		
198	S28 56 22.3 E16 42 38.7																		
199	S28 56 22.4 E16 42 38.4																		
200	S28 56 22.0 E16 42 38.3																		
201	S28 56 21.9 E16 42 38.8																		
202	S28 56 21.4 E16 42 38.4																		
203	S28 56 21.1 E16 42 38.3																		
204	S28 56 21.1 E16 42 37.9																		
205	S28 56 21.5 E16 42 37.7																		
206	S28 56 20.7 E16 42 38.0																		
207	S28 56 21.0 E16 42 38.7																		
208	S28 56 18.5 E16 42 37.2	5	x	x	x														
209	S28 56 18.1 E16 42 37.2	10	x	x	x		x												
210	S28 56 18.5 E16 42 38.6	5	x	x	x														
211	S28 56 18.9 E16 42 38.3	25	x	x	x		x	x											211-216 all one site.
212	S28 56 19.0 E16 42 38.1																		
213	S28 56 19.4 E16 42 38.2																		
214	S28 56 19.1 E16 42 37.8																		
215	S28 56 18.8 E16 42 37.5																		
216	S28 56 18.8 E16 42 37.9																		
217	S28 56 18.7 E16 42 39.3	10	x	x	x		x										x		
218	S28 56 19.1 E16 42 39.6	50	x	x	x							x					x		218-226 all one site. IIIA bead.
219	S28 56 19.4 E16 42 39.4																		
220	S28 56 19.4 E16 42 39.1																		
221	S28 56 19.6 E16 42 39.9																		
222	S28 56 19.9 E16 42 39.7																		
223	S28 56 20.2 E16 42 39.8																		
224	S28 56 20.6 E16 42 39.7																		
225	S28 56 20.6 E16 42 40.2																		

Waypoint	Location	Size (m)	C. granatina	S. granularis	S. argenvillei	S. barbara	C. meridionalis	Burnupena sp.	Kreef	Quartz	CCS	Silcrete	Quartzite	Other	Manuports	Pottery	OES	Bone	Notes
226	S28 56 19.8 E16 42 40.1																		
227	S28 56 18.9 E16 42 44.8	15	x	x	x					x									
228	S28 56 20.3 E16 42 45.4	5	x	x	x														
229	S28 56 23.1 E16 42 46.2	5	x	x															Ephemeral.
230	S28 56 31.6 E16 42 49.9	35	x	x	x			x		x					x				230-234 all one site. Lots of Burnupena at waypoint 232.
231	S28 56 31.5 E16 42 50.1																		
232	S28 56 31.6 E16 42 50.4																		
233	S28 56 32.1 E16 42 50.4																		
234	S28 56 32.5 E16 42 50.7																		
235	S28 56 33.5 E16 42 51.1	15	x	x	x		x												235-236 all one site.
236	S28 56 33.9 E16 42 51.3																		
237	S28 54 39.2 E16 45 10.5	5	x	x						x									Ephemeral. Hilltop.
238	S28 54 42.7 E16 45 10.3	10								x									Ephemeral. Vegetated deflation hollow.
239	S28 54 15.4 E16 45 10.1	?								x									Ephemeral scatter along edge of trench.
240	S28 54 13.0 E16 45 05.1	10	x	x	x														
241	S28 52 59.3 E16 45 09.8	?								1									Ephemeral background scatter on hardpan.
242	S28 53 13.8 E16 46 06.7	5	x	x						x							x		
243	S28 53 04.3 E16 46 12.3	?								x									Ephemeral background scatter on hardpan.
244	S28 53 37.8 E16 46 17.2	10	x	x															
245	S28 53 38.1 E16 46 17.7	5	x	x	x														
246	S28 53 41.6 E16 46 40.7	20	x	x	x														Ephemeral. Hilltop.
247	S28 51 30.5 E16 46 10.7	?								x									Ephemeral. Hilltop deflation.
248	S28 51 19.3 E16 46 11.7	?	x	x	x												x		Ephemeral. Hilltop.
249	S28 51 00.3 E16 46 07.8	?								x									Ephemeral. Hilltop deflation.
250	S28 51 43.3 E16 45 21.1	?								x								x	Exposed hardpan along edge of mine trench.
251	S28 51 43.9 E16 45 21.0																		
252	S28 51 45.2 E16 45 20.9																		
253	S28 51 46.2 E16 45 20.9																		
254	S28 51 44.6 E16 45 20.8																		
255	S28 46 26.4 E16 38 36.4	2																	Scatter of glass on rocky hilltop. Likely modern.
256	S28 46 14.7 E16 38 41.2	90	x	x	x														256-257 all one site.
257	S28 46 11.8 E16 38 40.6																		Small scatter at 256 but ephemeral extension to 257.
258	S28 46 28.8 E16 40 04.1	10	x	x						x							x		
259	S28 46 48.6 E16 40 19.9	15	x	x	x											x	x		
260	S28 46 50.6 E16 40 21.3	10	x	x						x	x								Ephemeral.
261	S28 46 54.4 E16 40 23.7	?	x	x	x														Ephemeral. Exposed in jeep track.
262	S28 47 10.7 E16 40 39.8	5	x		x						x								
263	S28 47 11.1 E16 40 40.4	10	x	x	x					x							x		
264	S28 47 09.9 E16 40 40.2	110			x					x	x					x	x		Hilltop deflation. Also transfer=printed white refined earthenware.
265	S28 47 09.4 E16 40 40.6	5	x							x	x						x		
266	S28 47 09.7 E16 40 40.6	10	x	x	x						x	x					x		

Waypoint	Location	Size (m)	C. granatina	S. granularis	S. argenvillei	S. barbara	C. meridionalis	Burnupena sp.	Kreef	Quartz	CCS	Silcrete	Quartzite	Other	Manuports	Pottery	OES	Bone	Notes
267	S28 47 10.0 E16 40 40.9	10	x	x	x			x		x	x		x				x		
268	S28 47 12.0 E16 40 40.3	n/a																	A few fragments of an octagonal glass bottle. Also fragment of same plate as waypoint 264.
269	S28 47 19.3 E16 40 46.4	?			x					x							x		Ephemeral. Exposed in jeep track. The cluster of sites at 269-282 was also recorded by Hart (2013) as L002-L003 and D003.
270	S28 47 21.6 E16 40 48.3	5			x					x							x		Ephemeral scatter behind granite boulder. Just 1x S. argenvillei shell.
271	S28 47 23.3 E16 40 51.1	20	x	x	x					x	x					x	x		
272	S28 47 21.5 E16 40 50.9	30	x	x	x					x			x				x		Also lined industrial white refined earthenware.
273	S28 47 20.8 E16 40 51.4	5	x	x	x								x				x	x	Might be a pastoralist dump?
274	S28 47 20.2 E16 40 52.8	5	x	x	x					x							x		
275	S28 47 19.8 E16 40 53.4	10	x	x	x					x								x	
276	S28 47 20.3 E16 40 53.5	10	x	x	x					x	x		x						
277	S28 47 20.6 E16 40 54.4	10	x	x	x					x									
278	S28 47 21.8 E16 40 54.0	40	x	x	x			x		x	x					x	x		Also C. compressa.
279	S28 47 22.1 E16 40 53.4																		
278B	S28 46 42.1 E16 40 31.4																		Isolated 20 <sup>th</sup> century glass bottle.
280	S28 47 24.7 E16 40 53.0	5	x	x	x												x		Ephemeral.
281	S28 47 26.4 E16 40 52.3	5	x	x	x					x									
282	S28 47 24.1 E16 40 49.6	10	x	x	x					x							x		
283	S28 47 15.6 E16 40 37.2	10	x	x						x							x		
284	S28 47 10.0 E16 40 34.6	10	x	x	x												x		Ephemeral.
285	S28 46 56.3 E16 40 21.9	10	x	x															
286	S28 46 49.8 E16 40 19.4	5	x	x													x		Ephemeral.
287	S28 45 23.2 E16 39 37.6	10	x	x	x												x		Lower grindstone.
288	S28 44 01.4 E16 37 39.1	n/a																	Isolated stone ware with dragon motif.
289	S28 43 45.7 E16 37 46.2	n/a																	2x isolated sponge-print refined white earthenware
290	S28 45 53.3 E16 37 54.3	10	x		x														About 30x S. argenvillei and 1x large S. granatina.
553	S28 45 02.3 E16 39 53.8	5								x	x	x	x	x			x		In sandy area at the edge of an area of exposed calcrete.
554	S28 45 04.8 E16 39 54.1									x		x	x						Ephemeral background scatter on exposed calcrete.
555	S28 47 34.8 E16 37 43.5									x		x	x						Ephemeral background scatter including a broken silcrete handaxe
556	S28 47 50.8 E16 37 56.5	5	x	x						x									Ephemeral
557	S28 47 51.0 E16 37 57.9	30	x	x	x		x			x	x		x				x	x	557 & 558 are ends of same site
558	S28 47 51.9 E16 37 58.1																		
559	S28 47 51.8 E16 37 58.4	10	x	x	x		x			x								x	
560	S28 47 51.7 E16 37 59.1	5	x	x						x									
561	S28 47 51.2 E16 38 01.0	x	x	x						x									
562	S28 47 52.7 E16 38 01.2	20	x	x	x					x			x					x	
563	S28 47 52.9 E16 38 01.7	15	x	x	x					x	x			x			x		FGB sidscraper. Four OES frags had a single engraved line (none refitted).
564	S28 47 57.3 E16 37 55.0	25	x	x	x					x	x				x		x		Disturbed
565	S28 55 42.0 E16 46 11.6	50	x	x	x					x					x				Ephemeral scatter in large deflation started from R382 road edge.

Waypoint	Location	Size (m)	C. granatina	S. granularis	S. argenvillei	S. barbara	C. meridionalis	Burnupena sp.	Kreef	Quartz	CCS	Silcrete	Quartzite	Other	Manuports	Pottery	OES	Bone	Notes
																			Hammerstone seen. Just outside southeast edge of study area.
566	S28 55 43.4 E16 46 12.8	15								x									Above R382 road cutting and site has been truncated. Just outside southeast edge of study area.
567	S28 55 44.1 E16 46 13.7	10	x	x	x		x		x	x									Above R382 road cutting and site has been truncated. Also glass and stoneware. Just outside southeast edge of study area.
568	S28 55 44.6 E16 46 14.7	15	x	x	x				x	x	x	x					x	x	Above R382 road cutting and site has been truncated. CCS curve-backed flake seen. Just outside southeast edge of study area.
569	S28 43 24.0 E16 36 57.2	5															x		This is an OES flask cache that has become exposed and broken up with time. Five mouth fragments from a thin (normal) and wide mouth were found, but none of them refit.
570	S28 43 23.2 E16 37 25.4	15	x	x	x					x									Ephemeral. Also brown glass and plain refined white earthenware.
571	S28 43 25.6 E16 37 25.1	15								x									Light scatter in a deflation between dunes.
572	S28 43 46.4 E16 37 20.6	15	x	x	x			x		x									Also a <i>Fissurella</i> sp. shell in a deflation between dunes.
573	S28 50 18.2 E16 42 31.0	5			x														Light scatter in a deflation between dunes
574	S28 50 16.7 E16 42 29.7	15								x				x			x	x	Other = fine-grained black rock. Bone is mineralised. Site in deflated area.
575	S28 50 15.0 E16 42 29.2	10								x				x			x	x	Other = fine-grained black rock. Bone is mineralised. Site in deflated area.
576	S28 50 13.8 E16 42 29.4	20								x	x		x				x	x	Bone is mineralised. Site in deflated area.
577	S28 50 14.2 E16 42 33.8																		An isolated clear 20 <sup>th</sup> century glass bottle with metal top and that is slightly oxidised. Site in deflated area.
578	S28 50 14.7 E16 42 34.1	20								x	x		x				x	x	578 & 579 are ends of same site. One OES fragment was burnt.
579	S28 50 15.1 E16 42 34.2																		Mineralised bone, includes much tortoise and a large tooth (large-medium bovid [ID by Dr Teresa Steele]). Site in deflated area.
580	S28 50 13.7 E16 42 34.5	15								x	x		x				x	x	Mineralised bone. Lower grindstone. Site in deflated area.
581	S28 50 11.4 E16 42 34.7	20									x			x					Other = quartz porphyry. Site in deflated area.
582	S28 50 00.0 E16 42 25.8	3x7																	The remains of a small building foundation. Inside looks like a calcrete floor and rocks are falling away to the sides due to wind erosion. The cement base of a corrugated iron reservoir lies 100 m northwest and some modern rubbish (glass, metal, ceramics, a battery, part of a plastic pen, some asbestos and a spring mattress) lies 35 m southwest.
583	S28 50 00.5 E16 42 27.7	8	x		x												x	x	Just a single <i>C. granatina</i> shell. Mineralised bone. Site in deflated area.
584	S28 50 03.6 E16 42 31.0									x									Extensive light quartz scatter in deflated area.
585	S28 50 10.4 E16 42 29.3									x			x				x		Ephemeral scatter in deflated area.
586	S28 51 52.0 E16 43 14.4									x	x							x	Fossil tortoise in deflated area along mine trench. Also ephemeral artefacts. CCS backed blade fragment seen. Presumably MSA.
587	S28 51 51.4 E16 43 16.0																	x	Scatter of fossil long bone fragments in deflated area along mine trench.
588	S28 51 51.5 E16 43 15.2									x									Light scatter in deflated area along mine trench.
589	S28 46 04.4 E16 40 47.2																	x	Two fragments of a fossil bone in a sandy area.

Waypoint	Location	Size (m)	C. granatina	S. granularis	S. argenvillei	S. barbara	C. meridionalis	Burnupena sp.	Kreef	Quartz	CCS	Silcrete	Quartzite	Other	Manuports	Pottery	OES	Bone	Notes
590	S28 46 48.8 E16 41 51.1	20	x	x						x							x		Some ostrich eggshell is burnt
591	S28 46 53.8 E16 41 53.4	20	x	x	x					X									
592	S28 46 54.4 E16 41 54.6	10	x	x			X												
593	S28 47 11.4 E16 42 49.4	10	x	x												x	x		Six potsherds, some quite large
594	S28 47 11.4 E16 42 50.8	5	x	x						x									Ephemeral scatter
595	S28 47 10.8 E16 42 51.3	5	x	x	x														Ephemeral scatter
596	S28 47 10.3 E16 42 51.1	10	x	x	x					x	x					x			Pottery with very thin walls
597	S28 47 10.7 E16 42 50.5	15	x	x	x					x			x			x	x		Pottery with very thin walls
598	S28 47 13.9 E16 42 53.0	10								x	x						x		
599	S28 47 12.9 E16 42 57.7	10	x	x	x					x							x		Dunetop site
600	S28 47 15.7 E16 43 16.1									x			x				x		Light scatter of Pleistocene material on exposed calcrete
601	S28 47 43.1 E16 42 51.2									x		x						x	Light scatter of Pleistocene material on exposed calcrete. Fossilised bone.
602	S28 47 44.6 E16 42 34.7									x		x		x			x	x	Light scatter of Pleistocene material on exposed calcrete. Fossilised bone. Also some metal here from historical/recent farming activity. Cement reservoir 40 m to the west. This site (602-607) was also recorded by Hart (2013) as D007.
603	S28 47 42.7 E16 42 33.5																	x	Fossil bone fragments on exposed calcrete
604	S28 47 42.0 E16 42 33.5									x	x						x	x	Light scatter of Pleistocene material on exposed calcrete. Fossilised bone.
605	S28 47 41.4 E16 42 33.3																	x	Fossil bone fragments on exposed calcrete. Also a quartzite hammerstone just southeast of here.
606	S28 47 40.5 E16 42 33.0									x			x	x					Also a quartzite lower grindstone/anvil. Light scatter of Pleistocene material on exposed calcrete.
607	S28 47 40.3 E16 42 33.1																	x	Fossil bone fragments on exposed calcrete. Many fragments occur over about 3-4 m <sup>2</sup> .
608	S28 47 47.3 E16 42 33.1									x	x		x						Light scatter of Pleistocene material on exposed calcrete
609	S28 48 04.6 E16 41 39.8	20	x	x				x											
610	S28 48 04.1 E16 41 39.2	10	x	x															
611	S28 48 03.3 E16 41 24.1	5	x	x													x		Ephemeral
612	S28 51 03.7 E16 41 47.7	5	x		x														Scatter of S. argenvillei with just 1 or 2 large granatina shells
658	S28 43 48.1 E16 35 24.5	20												x					Cores & flakes in dark-brown semi-smooth grained material.
659	S28 43 49.5 E16 35 25.7	5											x	x					Ephemeral. semi-smooth grained material.
661	S28 43 44.5 E16 35 26.0	5												x			x		Ephemeral. semi-smooth grained material.
662	S28 43 41.5 E16 35 28.9	5												x					Ephemeral. semi-smooth grained material.
664	S28 43 39.1 E16 35 26.4	10												x					Flakes of a semi-smooth grained material.
667	S28 45 51.0 E16 34 10.9	10	x	x	x														
672	S28 46 01.8 E16 34 25.2	10	x		x														Also some clear and green glass fragments.
674	S28 45 57.8 E16 34 16.4	5											x						
676	S28 46 27.8 E16 35 01.6	1.5		x															A small overhang of 1.5m wide and 1.7m high. Animal lair, but the shells likely originate from occupation of the adjoining larger shelter at waypoint 677.

Waypoint	Location	Size (m)	C. granatina	S. granularis	S. argenvillei	S. barbara	C. meridionalis	Burnupena sp.	Kreef	Quartz	CCS	Silcrete	Quartzite	Other	Manuports	Pottery	OES	Bone	Notes
677	S28 46 27.6 E16 35 01.8	6	x		x					x	x		x				x	x	A rock shelter of about 6m long x 3m wide x 4m high with walling at the entrance on the western side of Boegoeberg south. Burned faunal bones.
678	S28 47 16.2 E16 37 15.5	5								x									Ephemeral
679	S28 47 17.4 E16 37 14.4	20									x		x	x					Semi-smooth grained material.
680	S28 47 20.6 E16 37 20.0	10											x	x					Semi-smooth grained material.
681	S28 47 21.0 E16 37 21.2	5											x				x		
682	S28 47 28.2 E16 37 28.1	5											x						1x Core and 3x flakes.
683	S28 47 27.2 E16 37 28.1	n/a										x							Hand axe.
684	S28 47 24.7 E16 37 27.4	5											x						Ephemeral
685	S28 47 24.5 E16 37 27.2	n/a										x							Hand axe, broken in three but one small piece is missing.
686	S28 47 23.3 E16 37 26.7	5											x						Ephemeral.
687	S28 47 22.9 E16 37 26.7	10									x						x		Some OES are burned.
688	S28 43 53.4 E16 34 15.6	20	x	x	x		x	x		x			x	x			x	x	A dense shell midden with at least 3x OES beads (8mm). Semi-smooth grained material.
689	S28 43 59.5 E16 34 16.5	2	x	x	x					x			x						Ephemeral.
690	S28 44 01.6 E16 34 16.4	5			x														Ephemeral.
691	S28 44 01.8 E16 34 16.6	10	x		x														Ephemeral.
692	S28 44 02.3 E16 34 17.3	20	x		x		x												
693	S28 44 03.4 E16 34 17.9	5	x	x	x								x						Ephemeral.
694	S28 44 04.4 E16 34 17.9	5	x		x					x			x						Ephemeral.
695	S28 44 04.8 E16 34 18.0	5	x		x								x						Ephemeral.
696	S28 44 04.8 E16 34 18.4	10	x	x	x					x									Ephemeral.
697	S28 44 52.0 E16 34 15.6	15									x	x	x	x					
698	S28 50 40.6 E16 43 00.6	5								x									Ephemeral flakes at a pan.
699	S28 49 16.5 E16 44 06.0	50			x					x	x	x					x	x	Granite outcrop with wire fencing, fragments of glass (lighter olive green, emerald green, clear, aquamarine), some burned shells.
700	S28 49 18.1 E16 44 06.1	10			x											x	x		Undecorated pottery, thin-walled with blackening.
701	S28 49 18.7 E16 44 05.9	5											x		x			x	Burned animal bones.
702	S28 49 19.2 E16 44 06.9	5	x	x	x					x	x						x		Some shells are burned.
703	S28 49 17.5 E16 44 07.5	5										x							Fragments of emerald green glass and beef tins possibly from early diamond miners. Also 2x silcrete cores.
704	S28 49 17.2 E16 44 09.3	5														x			Undecorated pottery, thin-walled with blackening.
705	S28 49 15.4 E16 44 08.6	10		x	x					x	x						x		Some shells are burned.
706	S28 49 14.6 E16 44 06.7	5			x					x			x						
707	S28 49 15.0 E16 44 06.0	n/a																	Sponged ceramic.
708	S28 47 38.6 E16 35 10.5	5			x														Ephemeral.
709	S28 47 37.8 E16 35 09.9	8	x	x	x					x			x						Lower grind stone & upper grindstone with hammer marks.
710	S28 47 35.2 E16 35 06.0	5	x		x														
711	S28 47 34.9 E16 35 05.8	10	x	x	x														Hammer stone.
712	S28 47 34.5 E16 35 06.0	10	x		x														
713	S28 47 34.4 E16 35 07.0	10	x		x											x			2x fragments of undecorated, thin-walled pottery.

Waypoint	Location	Size (m)	C. granatina	S. granularis	S. argenvillei	S. barbara	C. meridionalis	Burnupena sp.	Kreef	Quartz	CCS	Silcrete	Quartzite	Other	Manuports	Pottery	OES	Bone	Notes
714	S28 47 34.0 E16 35 07.0	15	x	x	x	x													
715	S28 50 51.9 E16 35 56.7	10	x													x			8x fragments of undecorated, thin-walled, blackened pottery.
716	S28 51 09.1 E16 37 17.8	10	x		x														
717	S28 51 06.5 E16 37 12.7	30	x	x	x		x			x			x				x		1x OES bead 7mm. Hammer stone.
718	S28 50 53.0 E16 37 04.7	12																	A circular stone kraal (8m) with a dipping passage inside and two adjoining rectangular stone kraals (4m wide x 8m long in total). Wood fragments in the doorways and glass (clear, lighter olive green & emerald green) fragments. This is in Rietfontein pan.
719	S28 50 40.9 E16 36 56.7	5			x														Ephemeral.
720	S28 50 20.9 E16 36 36.0	5	x		x														Ephemeral.
721	S28 50 21.2 E16 36 34.6	20	x	x	x														Ephemeral.
722	S28 50 18.3 E16 36 32.9	15	x	x	x														
723	S28 50 18.3 E16 36 34.3	10	x		x														
724	S28 50 18.4 E16 36 34.7	5	x	x	x														Ephemeral.
725	S28 50 18.3 E16 36 35.4	20	x	x	x					x						x		x	A dense midden with minimal <i>S. argenvillei</i> . Decorated pottery with blackening. Burned faunal remains.
726	S28 50 16.9 E16 36 35.1	5			x					x									Ephemeral.
729	S28 52 23.0 E16 38 35.8	5			x														Ephemeral.
730	S28 52 09.9 E16 38 49.1	5	x	x	x					x							x		730 – 732 all one site.
731	S28 52 09.6 E16 38 49.1	5		x	x														
732	S28 52 09.5 E16 38 49.1	5	x	x	x					x									
733	S28 52 09.2 E16 38 49.3	20	x	x	x		x										x		Light scatter.
734	S28 52 09.0 E16 38 48.8	5	x	x	x		x										x		
735	S28 52 08.7 E16 38 48.7	20	x	x	x		x			x							x		Light scatter of mostly <i>C. meridionalis</i> .
736	S28 52 08.2 E16 38 48.6	10	x	x	x					x							x		Ephemeral with some burned shell.
737	S28 52 06.3 E16 38 47.8	50	x	x	x		x			x	x						x		Moderately dense shell midden with burned shell.
738	S28 52 05.6 E16 38 47.6	20	x	x	x		x			x									Burned shell.
739	S28 52 05.2 E16 38 47.5	10	x	x	x		x										x		Ephemeral.
740	S28 52 04.6 E16 38 47.4	5	x		x												x		Ephemeral.
741	S28 52 03.4 E16 38 47.1	5	x	x	x		x												Ephemeral.
742	S28 52 03.2 E16 38 47.2	5	x	x	x		x												Ephemeral.
743	S28 52 02.7 E16 38 47.6	20	x		x		x							x					Core made from almost black, fine-grained material.
744	S28 52 01.6 E16 38 47.4	20	x		x	x	x												
745	S28 52 02.8 E16 38 44.1	5	x																Ephemeral.
746	S28 51 53.5 E16 38 44.1	5	x		x														Ephemeral.
747	S28 49 48.7 E16 37 12.7	70	x	x	x							x	x	x			x		Most shell is highly fragmented.
748	S28 49 45.5 E16 37 12.0	10	x	x	x							x	x				x		Ephemeral. Most shells are highly fragmented.
749	S28 49 44.4 E16 37 11.5	5	x		x					x									Ephemeral. Most shells are highly fragmented.
750	S28 49 43.6 E16 37 11.5	10	x	x	x							x	x				x		Ephemeral. Most shells are highly fragmented.
751	S28 49 43.1 E16 37 11.6	10		x	x							x	x				x		Ephemeral. Burned shell.
752	S28 53 54.0 E16 39 10.9	n/a																	Modern shipwreck.
753	S28 53 55.0 E16 39 14.3	10																	A pile of turret shells and some white bivalves ( <i>Venerupis</i> ?) with

Waypoint	Location	Size (m)	C. granatina	S. granularis	S. argenvillei	S. barbara	C. meridionalis	Burnupena sp.	Kreef	Quartz	CCS	Silcrete	Quartzite	Other	Manuports	Pottery	OES	Bone	Notes
																			broken wood fragments. Shell may be palaeontological but the small exposure and association with wood are puzzling.
754	S28 53 03.7 E16 39 59.6	10	x	x	x												x		754 – 755 all one site.
755	S28 53 03.8 E16 39 59.2	5	x	x	x														
756	S28 55 13.8 E16 41 10.4	5	x		x														
757	S28 55 15.6 E16 41 10.9	40	x	x	x		x												Partly destroyed by road.
758	S28 56 01.9 E16 41 37.3	40	x	x	x	x	x	x		x	x		x	x		x	x		A dense shell midden, partly destroyed by a road. Also hammer stones, lower & upper grind stones. There is also a few of fragments thin-walled pottery and ostrich eggshell.
759	S28 56 01.9 E16 41 38.1	30	x	x	x			x											
760	S28 56 02.4 E16 41 38.1	30	x	x	x		x	x									x	x	
761	S28 56 02.8 E16 41 37.9	10	x	x	x			x		x		x					x		
762	S28 56 03.2 E16 41 37.9	20	x	x	x		x	x		x									Partly destroyed by road.
763	S28 56 03.5 E16 41 37.8	5	x	x	x		x	x		x									Partly destroyed by road.
764	S28 56 04.3 E16 41 38.6	30	x	x	x		x			x									Heavily weathered
765	S28 56 04.9 E16 41 38.8	5	x	x	x											x			8x fragments of undecorated pottery.
766	S28 56 04.9 E16 41 39.7	10	x	x	x					x									
767	S28 56 05.5 E16 41 39.6	5	x	x	x					x									
768	S28 56 05.6 E16 41 40.0	5	x		x					x									
769	S28 56 06.2 E16 41 41.0	5			x			x											Few <i>S. argenvillei</i> , the rest is all <i>Burnupena sp.</i>
770	S28 56 06.0 E16 41 41.4	5	x	x	x					x									
771	S28 56 06.9 E16 41 41.2	20	x	x	x		x	x								x			A moderately dense shell midden of about 20m, partly destroyed by a road. Has 5x undecorated, thin-walled pottery fragments.
772	S28 56 07.2 E16 41 41.8	10			x	x	x			x							x	x	Whale bone
773	S28 56 07.1 E16 41 42.4	20	x	x	x	x	x				x		x						A moderately dense shell midden.
774	S28 56 07.5 E16 41 43.0	2	x	x	x		x												
775	S28 56 06.1 E16 41 42.7	5	x		x												x		Partly destroyed by road.
776	S28 56 04.4 E16 41 40.5	10	x	x	x					x							x		Ephemeral.
777	S28 56 03.9 E16 41 40.6	15			x		x												
778	S28 56 02.9 E16 41 41.1	10			x		x												
779	S28 56 02.2 E16 41 40.9	5	x		x					x									
780	S28 56 28.2 E16 41 55.6	15	x		x		x												
781	S28 56 28.2 E16 41 54.8	5			x		x						x						
782	S28 56 28.6 E16 41 54.4	5			x			x											
783	S28 56 28.6 E16 41 54.2	10	x	x	x			x		x							x		
784	S28 56 30.3 E16 41 50.1	5			x	x							x						
785	S28 56 29.9 E16 41 50.0	5			x	x													
786	S28 56 29.2 E16 41 49.9	5	x		x	x				x									
787	S28 56 27.4 E16 41 50.4	30	x	x	x		x			x									Partly destroyed by road.
788	S28 56 26.2 E16 41 51.7	30	x	x	x	x	x			x				x		x			A moderately dense shell midden. Fragments of thin-walled, undecorated pottery with blackening.
789	S28 56 26.2 E16 41 50.3	20	x	x	x						x		x	x					A light shell scatter with burned shell. Hammer stone.



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790	S28 56 26.6 E16 41 49.9	30	x	x	x	x	x	x		x			x	x			x	x	A moderately dense shell midden with fish bone.
791	S28 56 26.8 E16 41 49.1	30	x		x	x				x						x			A light shell scatter. Thin-walled, undecorated pottery. Partly destroyed by road.
792	S28 56 27.4 E16 41 48.3	15	x	x	x					x				x					An ephemeral shell scatter. Partly destroyed by road.
793	S28 56 26.0 E16 41 49.0	5	x		x														
794	S28 56 21.0 E16 41 47.1	30	x		x	x	x	x		x	x		x						Shell highly fragmented.
795	S28 56 20.2 E16 41 47.0	20	x		x			x		x				x					
796	S28 56 19.4 E16 41 46.8	30	x	x	x		x	x						x			x		
797	S28 56 20.0 E16 41 47.8	10			x	x	x			x									
798	S28 56 20.4 E16 41 48.3	5		x	x														
799	S28 56 21.1 E16 41 48.0	20	x	x	x		x	x		x									A moderately dense shell scatter. Partly destroyed by road.
800	S28 56 21.6 E16 41 49.0	20	x	x	x		x			x						x	x		Ephemeral. 2x thin, undecorated pottery fragments present.
801	S28 56 22.3 E16 41 49.1	30	x		x	x				x									
802	S28 56 22.7 E16 41 49.7	15			x			x		x							x		Ephemeral, highly fragmented.
803	S28 56 25.0 E16 41 53.4	5	x		x					x									
804	S28 56 26.8 E16 43 38.5	20	x	x	x	x					x		x				x	x	A light shell scatter with burned animal bones. Hammer stone on the edge of a pan.
805	S28 56 24.5 E16 43 39.5	5								x									A moderately dense scatter of quartz and quartzite hammer stones next to a pan.
807	S28 48 17.5 E16 38 04.6	n/a																	Old water reservoir and water troughs next to the old Alexander bay road.
808	S28 47 52.9 E16 37 09.5	2	x	x													x		Ephemeral.
809	S28 47 53.1 E16 37 14.1	1	x	x															Ephemeral.
810	S28 47 48.9 E16 37 24.9	80	x	x	x	x	x			x	x		x				x		IIIA
811	S28 47 47.8 E16 37 23.6																		810 – 813 all one site.
812	S28 47 47.1 E16 37 23.3																		A dense shell midden with a very compacted lower levels suggest repeated site use. Artefacts include blades, bladelets, scrapers, upper & lower grindstones, hammer stones.
813	S28 47 46.8 E16 37 22.8																		814-818 all one site.
814	S28 47 46.1 E16 37 23.6	60	x	x	x	x	x			x	x		x				x		
815	S28 47 45.6 E16 37 23.2																		
816	S28 47 45.1 E16 37 23.7																		
817	S28 47 44.3 E16 37 23.3																		
818	S28 47 44.6 E16 37 22.6																		
819	S28 47 44.0 E16 37 22.3	15	x	x	x					x	x						x		A light shell scatter.
820	S28 47 43.9 E16 37 22.9	5			x														Ephemeral.
821	S28 47 46.2 E16 37 24.5	70	x	x	x	x	x			x	x		x				x		821-824 all one site.
822	S28 47 46.8 E16 37 24.8																		
823	S28 47 47.5 E16 37 25.5																		
824	S28 47 48.0 E16 37 25.7																		
825	S28 47 51.9 E16 37 33.5	100	x	x	x	x	x			x	x		x				x		825-830 all one site. A collection of dense shell middens overlapping. Artefacts include blades, scrapers, Upper & lower
826	S28 47 51.3 E16 37 33.2																		

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827	S28 47 50.3 E16 37 33.1																		grindstones, hammer stones.
828	S28 47 50.0 E16 37 32.8																		
829	S28 47 49.5 E16 37 33.0																		
830	S28 47 49.1 E16 37 32.7																		
831	S28 47 48.7 E16 37 32.6	5	x	x	x						x								A light shell scatter.
832	S28 47 41.0 E16 37 35.0	50	x	x	x		x			x	x		x				x		IIIA 832-836 all one site. A collection of dense shell middens overlapping. It is about 1.5m high. Artefacts include blades, scrapers, lower & upper grindstones, hammer stones.
833	S28 47 40.6 E16 37 34.1																		
834	S28 47 40.4 E16 37 34.7																		
835	S28 47 39.9 E16 37 33.8																		
836	S28 47 39.7 E16 37 34.3																		A light shell scatter.
837	S28 47 42.3 E16 37 34.1	5	x	x	x					x	x								
838	S28 47 50.3 E16 37 36.5	20	x	x	x		x			x	x								838 – 839 all one site. Two dense shell middens overlapping. Artefacts include blades, scrapers, lower & upper grindstones, hammer stones.
839	S28 47 50.8 E16 37 36.7																		
840	S28 47 53.5 E16 37 33.9	100	x	x	x	x	x			x	x		x				x		840-848 all one site. A collection of light shell scatters overlapping. Quartzite cores and hammer stones, lower grindstone.
841	S28 47 54.1 E16 37 33.7																		
842	S28 47 54.9 E16 37 34.0																		
843	S28 47 55.3 E16 37 34.6																		
844	S28 47 56.0 E16 37 34.6																		
845	S28 47 55.5 E16 37 34.3																		
846	S28 47 55.0 E16 37 33.7																		
847	S28 47 54.1 E16 37 33.4																		
848	S28 47 53.0 E16 37 33.2																		
849	S28 47 56.2 E16 37 32.3	10								x									Many quartz flakes and one quartzite hammer stone on the eastern edge of a pan.
861	S28 45 10.6 E16 39 14.7												x						A quartzite core and two flakes.
864	S28 45 08.4 E16 39 31.4	5			x														Ephemeral
865	S28 45 01.7 E16 39 35.3									x									Heavily weathered quartz flake.
866	S28 45 15.8 E16 40 07.2	10									x		x						Small deflation hollow with a quartzite flake and core and a CCS bladelet.
867	S28 46 01.8 E16 40 05.8	10									x		x						A calcrete patch with four flakes of CCS and quartzite.
868	S28 47 53.1 E16 37 51.8	100	x	x	x	x	x				x	x	x	x	x		x		Waypoints 868 – 872 are part of the same site. A substantial shell midden of about 100m long with several shell peaks. Artefacts include cores, flakes, bladelets, scrapers, upper and lower grind stones, and hammer stones. One incised ostrich eggshell fragment seen. There are also lumps of dark pigment.
869	S28 47 53.0 E16 37 51.2																		
870	S28 47 53.3 E16 37 49.4																		
871	S28 47 51.7 E16 37 48.7																		
872	S28 47 52.4 E16 37 50.4																		Ephemeral
873	S28 48 59.9 E16 39 18.3	5	x		x														
874	S28 48 53.7 E16 39 34.8	5	x																Ephemeral
875	S28 48 52.8 E16 39 34.5	5	x																Ephemeral
876	S28 44 48.0 E16 36 49.0	5	x		x														Ephemeral
877	S28 44 57.2 E16 36 54.1	5								x			x						Ephemeral heavily weathered quartz core and two quartzite flakes.
878	S28 45 00.9 E16 36 55.8	n/a								x		x	x						Ephemeral background scatter of quartzite, silcrete and smoky

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																			quartz.
879	S28 50 41.1 E16 41 55.4	10	x	x							x					x	x		Ephemeral shell scatter of about 10m with <i>C. granatina</i> , <i>S. granularis</i> , one CCS flake, ostrich eggshell fragments and one fragment of decorated pottery.
880	S28 52 02.4 E16 42 47.4	5	x	x	x														Ephemeral
881	S28 47 38.4 E16 38 58.3	5	x		x														Ephemeral
882	S28 47 29.7 E16 38 25.8	5			x					x									Ephemeral
883	S28 46 50.7 E16 38 38.5	5	x																Ephemeral
884	S28 46 39.7 E16 38 19.0	10	x	x	x														Ephemeral
885	S28 46 15.3 E16 38 23.6	20	x	x	x								x		x				Light shell scatter
886	S28 46 15.3 E16 39 04.7	5	x	x	x	x													Ephemeral
887	S28 46 15.5 E16 39 05.5	10		x	x														Ephemeral
888	S28 46 15.9 E16 39 07.8	10	x	x	x					x									Ephemeral
889	S28 46 14.7 E16 39 11.8	10	x	x	x														Ephemeral
890	S28 50 05.6 E16 39 17.0	5															x		A small concentration of ostrich eggshell fragments with incised marks; possibly a flask.
2001	S28 43 44.18 E16 35 22.34													x					Isolated diagnostic MSA flake out of unusual black rock on Namakwakop
2002	S28 43 44.12 E16 35 17.06	n/a																	1929 Beacon for State Alluvial Diamond Diggings
2003	S28 43 40.86 E16 35 16.25												x						Scatter stone artefacts
2004	S28 43 37.97 E16 35 15.83																	x	Fossilized bone?
2005	S28 43 37.97 E16 35 15.83									x									Scatter stone artefacts, MSA components
2006	S28 43 37.97 E16 35 15.83												x	x					Scatter stone artefacts
2007	S28 43 37.97 E16 35 15.83	2	x		x					x									Small, ephemeral scatter
2008	S28 45 53.04 E16 34 31.50												x						Quartzite on talus for Boegoeberg North used as factory site? Handaxe present.
2009	S28 46 03.13 E16 34 28.55	4																	3 sides of rectangular outline rocks, base of possible corrugated house? 3 x 4m in size? Badly impacted by mining.
2010	S28 46 02.85 E16 34 27.23		x	x														x	Large rubbish dump including food tins and mining debris of iron; green, brown, aqua glass – early 20 <sup>th</sup> century? Shell.
2011	S2846 02.19 E16 34 26.66	3	x	x	x														Also aqua glass. Unknown whether glass and shell are contemporary?
2012	S28 46 02.19 E16 34 26.66	3			x														Also some glass
2013-2014	S28 46 01.92 E16 34 26.37	5	x																Ephemeral. Also some glass.
2015	S28 46 01.70 E16 34 25.80	?			x														Ephemeral
2016	S28 46 01.72 E16 34 25.74	3x2																	Collapsed rectangular stone feature of unknown function
2017	S28 44 06.06 E16 34 17.93	4x1	x		x								x						
2018	S28 44 05.67 E16 34 17.68	2x1			x		x												
2019	S28 44 05.65 E16 34 17.66	?	x		x														Ephemeral
2020	S28 44 04.29 E16 34 17.36	50	x	x	x						x		x					x	2020 and 2021 are ends of same site. Very large, damaged midden, whale bone.
2021	S28 44 03.34 E16 34 16.90																		
2022	S28 44 02.66 E16 34 16.72	50	x	x	x		x												2022 and 2023 are ends of same site. Very large midden, whale

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2023	S28 44 02.28 E16 34 16.22																		bone. IIIB
2024	S28 46 29.63 E16 35 06.70	?								x	x	x	x	x					Large scatter of stone artefacts on top of Boegoeberg South
2025	S28 46 29.47 E16 35 13.52	2	x		x					x									Shell scatters in sandy hollows. Damaged?
2026	S28 46 34.73 E16 35 07.36	2	x		x									x					Shell scatter. Red ochre. Damaged.
2027	S28 46 35.05 E16 35 03.91	2	x		x											x			Deflated shell scatter.
2028	S28 46 34.92 E16 35 03.41	2	x		x										x				Large lower grindstone.
2029	S28 46 34.72 E16 35 02.71	2	x		x														
2030	S28 46 24.28 E16 34 50.79																		Very large pile of rocks, identified by Kaplan (2008) as a grave and listed as A14 above. IIIA
2031	S28 46 23.78 E16 34 53.04																		Second cairn of rocks 60 m east of 2030 and assumed to be Kaplan's (2008) second grave. IIIA
2032	S28 46 19.72 E16 34 56.60																		A third, smaller cairn 160 m northeast of 2031. IIIA
2033	S28 47 13.43 E16 37 10.32									x	x		x	x					Light scatter of stone tools on Visagiepan
2034	S28 47 20.58 E16 37 02.72													x					Large black rock with in-situ flaking
2035	S28 47 35.44 E16 36 46.20		x	x	x														
2036	S28 47 39.88 E16 36 55.41	15	x		x					x							x		Large midden on western edge of pan. IIIB
2037	S28 47 39.56 E16 36 55.92									x	x		x	x					Scatter of stone tools on floor pan
2038	S28 47 31.98 E16 37 08.53	5	x								x						x		Deflated shell midden
2039	S28 47 30.52 E16 37 08.62	10	x		x						x								Smaller of 2 middens next each other on floor of pan
2040	S28 47 29.77 E16 37 08.77	30	x		x					x	x								Large midden with in-situ deposit. IIIB
2041	S28 47 28.29 E16 37 09.42	?	x		x														Dispersed shell
2042	S28 47 27.90 E16 37 10.40	20	x	x	x					x									
2043	S28 43 53.41 E16 34 15.60	30	x		x		x			x			x	x			x	x	Continuation of same line of middens as 020 & 022. Oes beads, large quartzite scrapers? Large flat shale blocks. IIIB
2044	S28 43 54.25 E16 34 15.82	40	x		x						x			x		x			Also large shale blocks. Continuation of the same middens, partially destroyed by road along coast.
2045	S28 43 55.34 E16 34 14.99	30	x		x						x						x		
2046	S28 43 58.00 E16 34 15.80	3	x		x														
2047	S28 43 58.68 E16 34 15.56		x	x	x														
2048	S28 43 59.72 E16 34 15.64		x	x	x												x		Very long, dispersed shell scatter
2049	S28 44 00.06 E16 34 15.77		x		x					x									Also shale slabs
2050	S28 44 00.84 E16 34 15.97		x		x					x									Ridge of shell, dropping around 10m to the road below.
2051	S28 44 04.21 E16 34 16.80		x	x	x														The edge of site 2020?
2052	S28 44 07.38 E16 34 18.20		x	x	x														Many shale slabs. Midden damaged by road
2053	S28 44 08.09 E16 34 18.63		x	x	x														Badly damaged midden
2054	S28 49 16.64 E16 44 05.78		x	x	x												x		Grondputs – water seepage next to large rocks. Settlement around 30m in all directions. Shell, stone artefacts and glass near the rocks. IIIB
2055	S28 49 18.06 E16 44 08.36	4	x		x		x	x								x			Thin walled pottery. IIIB
2056	S28 49 17.09 E16 44 08.79		x	x	x					x	x	x						x	Burnt tortoise bone.
2057	S28 49 19.43 E16 44 08.19	35	x	x	x			x											2057, 2058, 2060 all same site

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2058	S28 49 19.43 E16 44 19.22																		
2060	S28 49 19.22 E16 44 08.08		x	x	x														
2059	S28 49 15.99 E16 44 06.95	2 x 4							x		x		x				x		Part of site exposed in road, including ostrich egg, bead, pieces of china. Site is width of road
2061	S28 49 14.19 E16 44 06.86				x						x		x				x		Another scatter to the north of Grondputs.
2062	S28 47 39.48 E16 35 10.50		x	x	x														Scattered/destroyed shell midden over large area
2063	S28 47 37.82 E16 35 09.81	3			x											x			The pottery has unusual bubbles on surface
2064	S28 47 36.98 E16 35 08.15	3	x		x					x									Flakes on a smoky quartz
2065	S28 47 36.92 E16 35 07.46	5	x		x											x	x		2065 and 2066 are same site. Thin walled, badly fired pottery.
2066	S28 47 36.58 E16 35 07.29																		
2067	S28 47 36.28 E16 35 07.34	50	x	x	x											x	x		Lug of pottery.
2068	S28 47 36.14 E16 35 07.04	10	x	x	x											x	x		Potsherds include rim and neck with red burnish.
2069	S28 47 36.72 E16 35 04.54	?	x	x	x				x	x							x		Badly destroyed midden
2070	S28 49 33.32 E16 35 21.93	?	x		x	x													Demolished midden
2071	S28 50 49.23 E16 35 59.14	?	x		x					x									Only small fragments of shell but seems like a site buried by recent wind-blown sand.
2072	S28 50 47.26 E16 35 58.18	3	x		x					x									Only small fragments of shell but seems like a site buried by recent wind-blown sand.
2073	S28 51 06.72 E16 37 12.53	30	x		x					x	x						x		OES bead. Road goes through this midden
2074	S28 50 53.19 E16 37 04.66									x									Stone dipping kraal with 2 adjoining kraals for livestock. Shale like rock, double skin, remnants of wood at entrance. Surrounded by broken glass. Recorded by Kaplan (2008) as A7. IIIB
2075	S28 50 20.03 E16 36 34.97	30	x	x	x														Large midden overlooking pan.
2076	S28 50 19.11 E16 36 37.39	8	x		x														Small compact midden
2077	S28 50 14.61 E16 36 33.74			x												x			Decorated pottery
2078	S28 50 14.36 E16 36 33.99	3	x		x					x									
2079	S28 50 15.42 E16 36 57.51	3																	
2080	S28 47 37.75 E16 37 41.64									x									Quartz chunks and chips around spring
2081	S28 47 41.43 E16 37 53.34		x		x														Large midden near the spring, destroyed by the tar road.
2082	S28 52 23.49 E16 38 35.74	5	x	x	x					x		x					x		
2083	S28 52 21.78 E16 38 37.24									x									Quartz artefact scatter
2084	S28 52 23.20 E16 38 40.93																		Historic glass on edge of pan
2085	S28 52 15.84 E16 38 50.38	?	x	x	x					x									Partially destroyed by mining
2086	S28 51 56.47 E16 38 41.09	50	x	x	x		x			x						x			Light scatter
2087	S28 52 17.89 E16 36 30.02		x	x						x							x		Impacted by mining
2088	S28 49 45.27 E16 37 21.11	3			x					x			x				x		Light scatter shell
2089	S28 49 43.81 E16 37 12.00	30	x	x	x			x		x	x			x			x		Large scatter. Including CCS scraper
2090	S28 49 43.37 E16 37 10.92		x	x	x		xx												Fragmented shell on top of dune
2091	S28 49 41.99 E16 37 06.80									x									Flaked outcrop in base of pan, quarry site
2092	S28 49 41.84 E16 37 05.93	3-4																	Semi-circle of rocks including a lower grindstone. May be a mining related feature.

Waypoint	Location	Size (m)	C. granatina	S. granularis	S. argenvillei	S. barbara	C. meridionalis	Burnupena sp.	Kreef	Quartz	CCS	Silcrete	Quartzite	Other	Manuports	Pottery	OES	Bone	Notes
2093	S28 49 44.45 E16 37 04.65									x									
2094	S28 49 45.44 S16 37 06.55		x	x	x														Shell scatter of destroyed midden
2097	S28 56 01.91 E16 41 37.32	50	x	x	x		x			x			x	x	x				2097 and 2098 appear to be the same site. Large midden with road through the middle
2098	S28 56 01.08 E16 41 37.49		x	x	x		x						x						Small dense midden
2099	S28 56 01.19 E16 41 36.66	3			x														Dispersed shell
2100	S28 56 01.34 E16 41 36.30	?	x		x					x			x	x					
2101	S28 56 01.29 E16 41 35.62	2	x	x	x										x				
2102	S28 56 00.52 E16 41 35.43	20	x		x					x									Large midden in the dunes
2103	S28 56 00.10 E16 41 35.61	15	x		x								x						Long line of shells, partially hidden by sand
2104	S28 55 58.58 E16 41 36.88	20	x	x	x					x						x			Scatter of shell over a big area
2105	S28 55 57.89 E16 41 36.97	20	x	x	x					x				x	x				In situ material at 2105, more at 2106 but continuous scatter from 2105 to 2107. IIIB
2106	S28 55 57.58 E16 41 38.10	10	x	x	x			x					x	x					
2107	S16 41 38.62 E28 55 57.68	?	x	x	x														
2108	S28 55 57.10 E16 41 38.45	?	x	x	x														Midden eroding out of dune
2109	S28 55 56.66 E16 41 37.31	?			x														Ephemeral scatter of shell
2110	S28 55 56.73 E16 41 35.75	?	x		x														Thin scatter
2111	S28 55 56.88 E16 41 35.06	15	x	x															
2112	S28 56 04.64 E16 41 40.33	3	x		x														
2113	S28 56 04.36 E16 41 40.62	?	x	x	x			x											Two heaps of shell
2114	S28 56 02.43 E16 41 41.53	20	x	x	x														Thin scatter
2115	S28 56 02.32 E16 41 40.78	30	x	x	x														Shell covered in lichen. Tyre marks through midden
2116	S28 56 01.85 E16 41 39.96	30	x		x														Midden spread in semi-circle around knoll
2117	S28 56 01.38 E16 41 39.52	30	x	x	x			x		x					x	x	x		Large, flattened midden
2118	S28 56 20.16 E16 42 05.31	?	x	x	x														Midden bisected by road
2119	S28 56 29.37 E16 41 54.25	?	x		x					x					x				Black rock used in flaking
2120	S28 56 32.32 E16 41 52.68	?	x	x	x														2020 and 2021 are same site. Ephemeral scatter of shell, disturbed by mining
2121	S28 56 32.69 E16 41 54.03																		Shells covered in lichen
2122	S28 56 35.99 E16 41 56.13	5	x		x														2023 and 2024 are same site. Ephemeral scatter of shell, disturbed by mining
2123	S28 56 32.86 E16 41 59.66	?	x	x	x														
2124	S28 56 32.84 E16 41 59.92																		Flattened midden
2125	S28 56 31.33 E16 41 51.00	4			x					x									Fragments of shell
2126	S28 56 30.96 E16 41 50.55	?	x		x														
2127	S28 56 29.43 E16 41 50.45	?	x		x														
2128	S28 56 26.88 E16 43 38.42	?	x		x									x			x		Midden eroding out of dune overlooking pan.
2129	S28 56 24.47 E16 43 39.42	15								x				x					Quartz factory site bottom of pan
2130	S28 47 52.27 E16 37 49.02	80	x	x	x		x	x		x	x		x	x			x		2130 to 2132 are all same site. Unusually large midden for Namaqualand. Very dense. There are several lower and upper grind stones and hammer stones.
2131	S28 47 53.16 E16 37 51.09																		
2132	S28 47 53.26 E16 37 51.78																		Scatter of stone artefacts
2133	S28 47 49.47 E16 36 58.86									x			x	x					
2135-2150	S28 47 47.14 E16 37 18.81	138	x	x	x		x	x		x	x		x	x			x		Unusually large midden for Namaqualand. North-south. Very dense and high.

Waypoint	Location	Size (m)	C. granatina	S. granularis	S. argenvillei	S. barbara	C. meridionalis	Burnupena sp.	Kreef	Quartz	CCS	Silcrete	Quartzite	Other	Manuports	Pottery	OES	Bone	Notes
2154	S28 47 46.54 E16 37 32.71	152	x	x	x		x	x		x	x		x		x		x		2154 to 2166 are all same site. Unusually large midden for Namaqualand. Running north-south. Very dense.
2155	S28 47 45.88 E16 37 32.87																		
2156	S28 47 45.11 E16 37 32.67																		
2157	S28 47 44.93 E16 37 32.66																		
2158	S28 47 44.58 E16 37 32.66																		
2159	S28 47 44.48 E16 37 32.53																		
2160	S28 47 44.30 E16 37 32.25																		
2161	S28 47 43.88 E16 37 31.90																		
2162	S28 47 43.02 E16 37 31.12																		
2163	S28 47 44.63 E16 37 32.95																		
2164	S28 47 44.96 E16 37 33.15																		
2165	S28 47 45.65 E16 37 33.53																		
2166	S28 47 46.54 E16 37 32.71																		
2168	S28 47 41.64 E16 37 34.41	3	x	x	x						x								Small midden
2169	S28 47 41.14 E16 37 34.76	40	x	x	x		x	x		x	x		x		x		x		2168 to 2175 are all one site. Unusually large midden for Namaqualand. Very dense.
2170	S28 47 40.67 E16 37 34.22																		
2171	S28 47 39.94 E16 37 33.82																		
2172	S28 47 39.78 E16 37 34.09																		
2173	S28 47 39.88 E16 37 34.56																		
2174	S28 47 40.47 E16 37 34.61																		
2175	S28 47 40.88 E16 37 34.77																		
2176	S28 47 41.39 E16 37 30.31																		Small shell scatter (details not captured)

1

2

## Appendix 5-2: A list of shipwrecks that may occur within or close to the study area

### SHIPWRECKS WITH VERY HIGH LIKELIHOOD OF BEING WITHIN THE IMPACT ZONE

These are wrecks that have reliable information regarding their locations. Two of them are younger than 60 years and are therefore not protected by the NHRA.

Record #	Ship Name	Date Lost	Nation
1	<i>Hamille Mitchell</i>	1844-12-08	Britain
Ship Type		Build Material	Tonnage
Brig		Wood	167
Location		Certainty	Casualties
Either Wreck Point or Soco Reef		Low	2
Details of Wrecking			
<p>"<i>Hamilla Mitchell</i>, from Antigua to Ichaboe, 8th Sept., lat. 30, long. 43," (Glasgow Courier 1844-11-16)</p> <p>"Ichaboe. - The following is an extract of a letter received by Messrs. Sinclair &amp; Boyd, Belfast, from Captain Mackay, of the brig <i>Emulous</i>:-"Ichaboe, Monday, 2d December, 1844. - On Saturday evening, the Captain, mate, and eight of the crew of the British brig <i>Amelia Mitchell</i>, came alongside in the long-boat, having been cast away about Cape Voltas, in a very exhausted state, so much so, that when I threw them a rope, they were not able to hold it. I immediately sent my boat to their assistance. There are at present about four hundred and sixty sail of shipping lying here, many of then having received great damage; some with masts gone, others sunk and cut down to the water's edge in consequence of the waves, or rollers, as they are called, being so very destructive. When I was coming into the anchorage, the shipping looked like a large forest of trees. I had nearly forgotten to mention, that there was one man drowned, and one died, when the <i>Amelia Mitchell</i> was lost." - Whig." (Newry Telegraph 1845-01-30)</p> <p>"On the 8th instant, at 5, p. m. observed a brig, called the <i>Hamille Mitchell</i>, on shore on a reef about two leagues to the south of Cape Voltas, her masts and yards all standing, and all sails loose. The crew were all saved, with the exception of one boy drowned in crossing the Orange River." (Cape of Good Hope Almanac 1846)</p> <p>"The 175-ton British brig HAMILLA MITCHELL, was reported aground on a reef two leagues [5.556 km] south of Cape Voltas, south of Oranjemund. All the crew were saved except one boy, who was drowned crossing the Orange River." (Levine 1989)</p>			

Record #	Ship Name	Date Lost	Nation
2	<i>Trident</i>	1985-11-25	RSA
Ship Type		Build Material	Tonnage
Fishing			391
Location		Certainty	Casualties
Homewood Harbour		Low	Unknown
Details of Wrecking			
<p>"The 391-ton fishing vessel TRIDENT was lost on the fishing grounds off South Africa at 28 48 S, 16 34 E." (Levine 1989)</p> <p>Except these coordinates are not at sea but rather close to shore.</p>			



1

Record #	Ship Name	Date Lost	Nation
3	<i>Kien Chang No. 6</i>	1997-06-02	Taiwan
Ship Type		Build Material	Tonnage
Trawler		Steel	500
Location		Certainty	Casualties
5.27 km south of Wreck Point		High	0
Details of Wrecking			
<p>There was a fire on the bridge and the crew beached the vessel. Repeated attempts to refloat the vessel failed. Fuel and salvageable items were removed.</p> <p>"The Department of Transport has instructed that more than 60 tonnes of oil from the Taiwanese fishing trawler, which ran aground on a sandbar in a guarded diamond barrier area at Alexander Bay, be drained off immediately. A spokesman for the department's marine division in Saldanha yesterday denied that the oil posed a pollution risk and said it was simply to make the trawler lighter to facilitate its towing. The harbour master in Port Nolloth, Mr. Don Bridge, however, added that the oil could indeed create a danger in the long run if it is not possible to succeed in removing the trawler.</p> <p>Pentow Marine withdrew its salvage vessel the day before yesterday after repeated attempts to rescue the stranded trawler Kein Chang no. 6 from the sandbar where he has been sitting since last Monday, failed.</p> <p>The fact that it is currently deadlock contributed to the failure of the project, Mr. Godfrey Needham of Pentow Marine said. He would not comment on the cost of the nearly week-long operation or who settled the bill.</p> <p>The 500-ton trawler with 26 crew members ran aground last Monday after being damaged by a fire on board. The fire broke out on the trawler on 27 May only a few days after it left Cape Town. A work team from Cape Diving was sent to the scene by Shepstone &amp; Wylie in Durban to transfer the oil into tanks, Mr. Shane Dwyer, senior partner of Shepstone and Wylie, said. The approximately 200 tons of frozen fish can also possibly be removed from the ship to make it lighter. Renewed efforts to tow the trawler from the sandbar may be made by June 20, if it is spring tide again, Dwyer said. Shepstone &amp; Wylie agents were appointed by the trawler's insurance company, United Kingdom Mutual Protection and Indemnity Association in London, to act on their behalf." (Die Burger 1997-06-13 in van den Bosch 2022, Afrikaans article translated by Google Translate)</p>			

2

### SHIPWRECKS WITH HIGH LIKELIHOOD OF BEING WITHIN THE IMPACT ZONE

4 These are wrecks that are reported as outside the area of consideration or their location data are  
5 unreliable.

Record #	Ship Name	Date Lost	Nation
4	<i>Bristolian</i>	1844-05-26	Britain
Ship Type		Build Material	Tonnage
Brig		Wood	
Location		Certainty	Casualties
Cape Voltas		Low	0
Details of Wrecking			
<p>Although I have placed this wreck at Cape Voltas because the historical newspaper reports it as the location, I believe it may be further north. This is based on the distance the captain believed he was from Ichaboe (100 miles), as well as the speed with which they reached Possession Island (1,5 days). However, there are no tall mountains further north, ergo the wreck may be south of Cape Voltas.</p> <p>"St. Helena, July [12] - The <i>Bristolian</i>, of Bristol, was lost near Cape Voltas, West Coast of Africa, previous to 28th ult. - crew saved and arrived at Ichaboe." (Northern Whig 1844-09-12)</p> <p>"The <i>Achilles</i>, arrived here from Angra Pequena, had on board the crew of the <i>Bristolian</i>, wrecked 80 miles to the</p>			

southward." (Evening Mail 1844-09-16)

"Ichaboe, July 4 - The *Achilles*, arrived here from Angra Pequena, has on board the crew of the *Bristolian*, wrecked 30 miles to the southward." (Morning Herald - London 1844-09-16)

"Wreck of the *Bristolian*."

In our Journal of the 14th instant we briefly announced the loss of this vessel. The *Bristolian* belonged to this port, which she left on the 27th of March, under the command of Captain Cooke, making a rapid voyage up to the time when she was wrecked, within a short distance of her destination. The wreck took place on the 26th May, and the unfortunate crew were on a wild part of the African coast until the 24th June. Captain Cooke kept a daily log, from which we extract the most important portions, believing they will be of much interest, not only as exhibiting the courage and perseverance of British seamen in dangerous and novel situations but affording some particulars of a coast now extensively visited by our shipping:-

Sunday, May 26th, 1844. - Noon: fresh breezes and thick foggy weather, the same we had experienced for several days, the fog was so dense we were unable to obtain any sights. We considered ourselves at this time in lat. 28, S and long. 14 10 East. At 4 p.m. heard breakers a-head, put the helm down, but the ship missed stays; tried to wear her, but in doing so run among the breakers and struck, the first sea hove the ship upon the rocks and dashed the quarter boat to pieces, we, at the time, supposing it to be an outer reef. At 4, 15 p.m. tremendous seas running, driving the ship among the rocks; saw the main land, but no possibility of escape, until her keel hung and her bows swung round upon a rock, the sea now making heavy breaches over the fore and aft. We immediately cut away the spars, and launched one of them over the bows; sent one hand down the spar with a rope, but he was immediately washed off, and with great difficulty obtained the rocks; he then made fast the rope to a rock, by which, after considerable effort, some got on shore; the remainder we hauled on shore in bowling knots through the breakers. In five minutes after I landed the sea drove the ship broadside on the rocks, swept the decks, and stove in her larboard broadside, she having fallen deck out to the sea, washing the long boat, and a quantity of bread and water puncheons on shore. At 5 30 p.m. dark foggy weather, dense and thick like rain, and extremely cold, picked up the long-boat's covering, and rigged a tent in the best way we could, and passed a wretched night on the sand in our wet clothes.

Monday, 27th. - At daylight found the beach strewn with pieces of the wreck for miles; found a puncheon of bread and two puncheons of water, partly damaged. This was indeed a great blessing, otherwise we must have perished surrounded with nothing but sand-hills, the weather continuing very thick, not able to dry our clothes, or procure any fire; gathering all the clothes we could find along the beach and also a few pieces of beef and pork that were washed ashore. Discovered several tracks of wild beasts.

Tuesday, 28th. - Weather more moderate; visited the wreck, it being low water, the ship nearly dry upon the rocks; found all her larboard side and decks completely gone, and most of the things washed out of her; found a keg of powder, all wet; dried a little, with which we procured a fire and dried our clothes. In the night we saw several large animals on the beach. Got the long-boat in the sand to endeavour to repair her, she being bilged in several places, and part of her keel gone, so that should the sea go down, by the blessing of God, we may be enabled to leave this place in her; if not, our only alternative will be to walk to Angra Pequena, or Ichaboe, which we suppose to be about one hundred miles distant.

Wednesday, 29th. - This day we visited the wreck, and found a barrel of flour and several useful articles for repairing the boat, and a compass; put several pieces in the boat's bottom, and repaired her keel; during the night saw several animals along the beach, some very large; kept up a fire to keep them away; found a spaniel dog we had on board to be very useful to us at night in keeping watch. Thursday, 30th. - Finished repairing the boat and got her along the beach, with planks and rollers, for a distance of half a mile, to a spot where we hope to be able to get her off as soon as the surf shall decrease; got some small casks and filled them with water and rolled them up to the boat, in readiness to put into her. Saved two top-gallant studding-sails from the wreck for boat's sails. Throughout the night the animals continued to come close to the tent; increased our fire to keep them away.

Monday, June 3. - Thick foggy weather, with a fresh breeze from the N.W.; the surf more moderate. At noon got the boat as near as possible to the sea, in readiness to launch her at high water. At 3 p.m., the tide rising, made every exertion to launch her, but heavy rollers coming suddenly in baffled all our attempts to do so; the first heavy roller striking her, drove her broadside on the beach and filled her with water, which deprived us of many useful things and left us in a much worse state than we were before we attempted it, having destroyed our bread and wetted everything in her, which caused us to spend another wretched night in our wet clothes. Got the boat back again on the beach without damage.

Tuesday, June 4. - Fresh breeze from the southward, and thick gloomy weather. Prepared the boat for another start, putting less bread and water in her than before. At 4 p.m., tide rising, made another attempt to launch the boat, but heavy rollers coming in prevented us from doing so; took out our provisions from the boat, and hauled her up the beach, clear of the surf, and rebuilt our tent, having found one of the topsails washed on shore.

Wednesday, June 5. - Passed a most miserable night, being very cold and wet. At daylight strong northerly breeze with a tremendous surf and dark thick weather. Found it impossible to launch the boat this day. Took a long walk into the interior of the country, in the direction of the Nameequaio's village, as laid down in the chart; saw several snakes and rats, and the bones of some very large animals, but no sign of inhabitants.

Thursday, June 6. - Dense thick fog, like rain; daylight northerly winds and thick weather, with a very high surf. Found it impossible to attempt to get the boat off this day. At eleven a.m. took a long walk in a northerly direction towards a

high mountain, which we ascended; discovered several large caves and skeletons of large beasts outside; came along the beach on our return, and found a barrel of pork nearly buried in the sand, about three miles from our tent; brought as much as we possibly could with us.

Monday, June 10. - Midnight: the surf still the same and thick wet weather. Daylight: the surf more moderate prepared the boat for another start, but the sea coming in more violent, abandoned it this day. We find ourselves getting more miserably situated every day, having nothing but bare boards to lie upon at night, and our provisions getting very small, thought it prudent to prepare to walk to Angra Pequina; and if we should not find any vessels there to walk on to Ichaboe, which we anticipate a very difficult task, having nothing but quick-sands and sand-hills to encounter. At 4 p.m. a very high surf; the sea coming in suddenly nearly washed us out of our tent. Removed further back behind a sand-hill.

Tuesday, June 11. - Midnight: wind off the land with an increasing surf. Find it quite impossible to launch the boat as yet, but we hope to have one more chance to do so before we attempt to walk. Noon: fine warm weather; the only warm day we have had since we have been here. Sunday, June 16. - Midnight: strong winds from the south-west. Daylight: increasing winds. Ascertained that we are to the south of the Namerquay village, about fifteen to twenty miles, and not knowing what treatment we may receive from them, thought it prudent to abandon walking to day. Went several miles along the beach to try if we could see anything of them, but without effect.

Monday, June 17. - Midnight: blowing very hard from the south-west. Daylight: still the same weather, with a very high surf. We intend to wait a day or two to see if we can launch the boat before we venture among those people. Friday, June 21. - Midnight: light winds and fine weather with a high surf. Daylight: rather low surf; got the boat down the beach close to the breakers, in readiness to launch her. At 10 a.m. sent two men and a boy in the boat to haul on the line as the rest launched her, and at last succeeded in getting her off, although with great difficulty and danger. The first breaker made a fair breach over her and nearly capsized her, which would have been the case had it not been for the line which, thank God! Saved us, and we hauled her out safely; rigged her with two top-gallant studding sail booms for masts, two top-gallant studding sails for fore and main sails; and proceeded on towards Ichaboe. It was a great blessing that we launched her this day, as our water and provisions could not have lasted us more than two days.

Saturday, June 22. - Midnight: fine and clear, running along the land. Daylight: light winds and fine weather. Noon: passed Albatross rock, with Possession island in sight. At 4 p.m. a windy appearance, and having no ballast in the boat thought it prudent to run under the lee of the island for the night, and came to anchor in two fathoms water, in a snug little bay close in.

Sunday, June 23. - At daylight got under weigh from Possession island and stood toward Angra Pequina. Noon: light winds and hazy weather; pulled towards Pedestal Point. At sun-set saw two vessels lying under Seal island came to anchor under Pedestal Point for the night.

Monday, June 24. - At daybreak got under weigh and pulled towards the shipping. At 11 30 came alongside the barque *Achilles*, of London, Capt. Nicholas, and were treated with great kindness by him, and also by Captain Day of the brig *Wellington*, of Bideford; who divided the crew among them, taking seven in the brig, and the other six remained on board the *Achilles*." (Bristol Mercury 1844-09-28)

1

Record #	Ship Name	Date Lost	Nation
5	<i>Eliza Ann</i>	1846-01-12	Britain
Ship Type		Build Material	Tonnage
Cutter		Wood	
Location		Certainty	Casualties
Orange River		Medium	
Details of Wrecking			
"The cutter, <i>Eliza Ann</i> , was wrecked near Orange River 12th ult.; crew saved" (Caledonian Mercury)			
"The ELIZA ANN was wrecked near the Orange River." (Levine 1989)			

2

3

Record #	Ship Name	Date Lost	Nation
6	<i>Shrimp</i>	1854-06	Britain
Ship Type		Build Material	Tonnage
Schooner		Wood	45
Location		Certainty	Casualties
Alexander Bay		Medium	0
Details of Wrecking			
<p>"Cape of Good Hope - June 23: By a cutter, which arrived in Table Bay the 12th, a report was received of the loss of the <i>Shrimp</i>, Mr. J.O. Smith's schooner, with a cargo of copper, in Alexander Bay. The report was received at Hondeklop Bay just previous to the departure of the cutter which brings the intelligence. Beyond this nothing certain has been received on the subject.</p> <p>The <i>Diving Bell</i>, in the employ of the S.A. Mining Company, arrived from Alexander Bay, after a passage of 55 hours, on Monday morning. She confirms the abovementioned report of the loss of the <i>Shrimp</i>, which, however, had no copper on board at the time, as she dragged her anchors and went on shore the night she arrived. She was a total wreck, and has been sold." (Shipping and Mercantile Gazette 1854-08-04)</p> <p>"Cape Town, (C.G.Hope), 23rd June. The <i>Shrimp</i>, parted her anchors, drove on shore in Alexander Bay, and was wrecked, previous to 12th June." (Lloyds List 1854-08-05)</p> <p>"<i>Shrimp</i>, schooner, was wrecked in Alexander Bay (Cape of Good Hope) previous to the 12th June. - 4" (Shipping and Mercantile Gazette 1854-09-05)</p>			

1



Record #	Ship Name	Date Lost	Nation
7	<i>Stranger</i>	1878-08-26	Britain
Ship Type		Build Material	Tonnage
Barque		Wood	288
Location		Certainty	Casualties
Abandoned off Cape Voltas, 40 miles NWW of Port Nolloth		Low	0
Details of Wrecking			
<p>"A telegram from Lloyd's agent at Madeira, dated 30th Sept., reports that the British barque <i>Stranger</i>, Captain Bindon, from London to Port Nolloth, laden with coal and a general cargo, has been burnt at sea. The crew took to the boats and landed at Port Nolloth on 27th August. The fire was caused by spontaneous combustion." (Greenock Telegraph and Clyde Shipping Gazette 1878-10-01)</p> <p>"The Loss of the <i>Stranger</i></p> <p>The following is the judgement of the Court of Inquiry, held at East London, into the circumstances attending the loss of the <i>Stranger</i>, burnt at sea. The Court consisted of J.W.H. Roussouw, Esq., Acting Resident Magistrate, and D. Day, Staff Commander, R.N., Nautical Assessor.</p> <p>It appears that the barque <i>Stranger</i> left London on the 11th June last, bound to Port Nolloth, with a cargo consisting principally of coal and oil (with other things) amidships on the coal. Light winds were generally experienced until Aug. 5, when she had reached about 30 S. and 20 W., when she experienced strong head winds, and knocked about a good deal. On the 7th oil was pumped up, indicating that some of the casks had broken. On the 18th the ship had reached 32 S. and 5 E., and smoke first appeared coming up from the fore-castle hatch. This grew worse as the ship proceeded on her voyage, until the 26th, when flames burst out, and the ship was abandoned 40 miles N.W. by W. from Port Nolloth. The Court concurs in the opinion of the Master, as corroborated by the witnesses, that the fire arose from spontaneous combustion; and is further of opinion that the Master did not display judgement or energy to ascertain the locality and to suppress the smouldering, but it is also of opinion that he acted to the best of his judgement and ability, and that prosecuting his voyage as he did, when the smoke first appeared, was the best course then open to him, and therefore returns him his certificate. The Mate's certificate is returned, but the Court is of opinion that he, an old Master, failed to give judicious counsel under the critical circumstances." (Shipping and</p>			

Mercantile Gazette 1878-11-04)

"The 288-ton barque STRANGER, Captain Bendon was bound from London for Port Nolloth with a general cargo. She caught fire and was abandoned at sea on 27 August 1878. Captain and crew arrived in Port Nolloth two days later." (Levine 1989)

1

## SHIPWRECKS WITH MEDIUM LIKELIHOOD OF BEING WITHIN THE IMPACT ZONE

Record #	Ship Name	Date Lost	Nation
8	<i>Jessie Smith</i>	1853-08-23	Britain
Ship Type		Build Material	Tonnage
Brig		Wood	226
Location		Certainty	Casualties
Alexander Bay		Medium	4
Details of Wrecking			
<p>"(From the Graham's Town Journal, Sept. 17.) Information has reached town this morning of the loss of the <i>Jessie Smith</i>, the property of Mr. J.O. Smith, of Port Elizabeth, one of the finest vessels employed in the trade of this colony. Our readers will probably be aware that this vessel left Port Elizabeth some weeks ago for the west coast, having the owner on board as passenger and some labouring men, in addition to the crew. It appears that she made the mouth of the Orange River about the 20th inst., and came to anchor in a small indentation called Alexander's Bay, on the 22d. The next day a tremendous swell set in without wind, and in a short time three of the men were washed overboard by the enormous rollers and drowned. Another was thrown on the rocks, and so severely bruised that he died from the injuries received. The vessel was speedily driven on the coast, where she soon became a total wreck. The owner, Mr. Smith, had a narrow escape - his preservation, under Providence, being attributed to his having provided himself with a life-preserver, by means of which he reached the beach, at the expense of a few bruises, having afterwards to travel on foot, in his dripping-wet clothes, a distance of 15 miles in search of assistance. The vessel, it is understood, is insured but the cargo is a total loss." (Morning Herald London 1853-10-26)</p> <p>"The 226-ton British brig JESSIE SMITH, Captain W. Baxter, was engaged in the copper trade from the Namaqualand coast and ores mined in the Richtersveld. Driven from her anchorage in Alexander Bay by a storm she became a total wreck. Four men were drowned, but the owner, captain and part of the crew reached shore with 'great difficulty'." (Levine 1989).</p> <p>"The graves of two shipwreck victims are situated alongside a long, shallow trench, very close to the rocky shoreline, about 1 kilometre south of the Alexander Bay Harbour. The two graves are covered with large slabs of mudstone and shale (Figure 1 and Figure 2). Some skeletal remains have already eroded from one of the graves. No grave goods, or shipwreck material was found. The sites are very visible and the surrounding area is severely disturbed and degraded. According to Mr Jonathan Sharfman (pers. comm.), maritime archaeologist at the South African Heritage Resources Agency (SAHRA), it is unclear which historical shipwrecks occur in the Alexander Bay area. According to a mining contractor historical shipwreck material, including brass items, glass and porcelain, has been recovered from the rocks near the harbour at Alexander Bay." (Kaplan 2008)</p> <p>The location of these graves, as well as the historical reports solidifies that the wreck is in Alexander Bay.</p>			
			
Figure 1: Shipwreck Graves (Kaplan 2008)		Figure 2: Shipwreck Graves (Kaplan 2008)	

## SHIPWRECKS WITH LOW LIKELIHOOD OF BEING WITHIN THE IMPACT ZONE

9	<i>Abberkerk</i>	Wrecked		1779	Wrecked between Cape and Holland. Voyage 8033.2	Off South Africa
10	<i>Admiral Collingwood</i>	Foundered	Britain	1858	This 360-ton barque under Captain Smith was bound from London for Algoa Bay when she apparently foundered 320km off St Helena Bay. (Levine 1989) This may put her in the West Coast area.	West Coast
11	<i>Aegeus</i>	Torpedoed, sank	Greece	1842	This 3 792-ton steamship left Trinidad for Saldanha Bay and then Durban. She never arrived. After WWII, German records indicated that she was torpedoed by the U-177 at 32° 30' s 16° 00' E. (Levine 1989; van den Bosch 2009) These co-ordinates are just west of the area and is where the U-boat reports torpedoing the vessel, not necessarily where she sank. In addition, the co-ordinates mentioned are subject to the technical limitations of the period.	West Coast
12	<i>Alblass Edwaard</i>	Fire and abandoned		1881	Caught fire and abandoned on 28-11-1881.	Off South Africa
13	<i>Australia</i>	Fire, sank	Britain?	1840	This 250-ton brig, under Capt. A. Yule was built in Dundee, Scotland in 1839. She was on her maiden voyage to Australia with passengers and cargo when the vessel caught fire and sank, apparently 9.6 nautical miles (NM), north of the Olifants River Mouth. However, she was 800 km west of the Cape of Good Hope when the fire broke out. The twenty-eight passengers and crew entered the lifeboats shortly before she was overwhelmed by the flames. A boy died at sea and a man died after they made land at Olifants River after nine days at sea. Farmers helped the survivors to reach Cape Town. (van den Bosch 2009) Ergo this vessel could be in the concession area.	West Coast
14	<i>Berea</i>	Disappeared		1933	This steam whaler disappeared after leaving Table Bay.	West Coast?
15	<i>British Monarch</i>	Fire, abandoned	Britain	1889	The 1262-ton iron barque under Captain Morrow was on a voyage from Hamburg to Sydney with a general cargo. She was abandoned at 37°58' S 05°20' E. The crew took to the boats and stayed with the burning vessel until she exploded and sank. One of the boats with six crew aboard disappeared. Two days later some of the surviving crew were picked up by an American whaler, the <i>Canton</i> . The whaler took them to within 50km of Cape Town, where apparently, they were reloaded into their boats and had to make their own way to Cape Town. Their entire ordeal lasted 18 days. (Levine 1989; van den Bosch 2009) This vessel is left in the database as the co-ordinates are not necessarily very accurate	West Coast

					and by staying with the burning vessel, drift needs to be taken into account.	
16-19	<i>Cabral Fleet</i>	Lost	Portugal	1500	<p>Levine (1989) states: "Thirteen vessels under command of Pedro Alvares Cabral – the first Portuguese fleet which sailed annually to the Indies – and found Brazil. Twenty days after the fleet sailed from Brazil, it was struck by storms and four ships, including the one under command of Bartolomeu Dias, foundered. Duffy [Shipwrecks and Empire, 1955] writes that the ships were lost off the Cape of Good Hope, but, according to Axelson [Levine cites personal correspondence], the fleet could not have been off the Cape of Good Hope then; they would have been in the vicinity of the shortly-to-be-discovered islands of Tristao da Cunha."</p> <p>There is such scant and contradictory information regarding the loss of these four vessels that I am including them in this database.</p>	Disappeared
20	<i>Catterina D.</i>	Fire, abandoned	Austria	1887	<p>This 610-ton barque from Liverpool for Cape Town with a cargo of coal caught fire. She was apparently abandoned before she sank, 480km west of Hottentot Point. The Captain and crew reached Walvis Bay in the lifeboats. (Levine 1989)</p> <p>As she was abandoned before she sank, this vessel is included in the database.</p>	West Coast
21	<i>Chios Merchant</i>	Leaking, sank	Greek	1982	<p>It was leaking but under control when the leak worsened dramatically. After sending out an SOS, the crew abandoned the vessel in a sinking condition at 520.9 NM west of the Orange River Mouth. (van den Bosch 2009)</p> <p>It may have drifted quite far from its original reported position.</p>	Approximately 520.9 NM west of the Orange River Mouth
22	<i>Columbine</i>	Torpedoed, sank	South Africa	1944	<p>This 3 268-ton steamship owned by the South African government was initially a German vessel. She was seized at the start of WWII. On 16 June 1944, she had 52 people on board when she was torpedoed by the U-198. 23 people died when their lifeboat capsized, including two naval officer wives. The co-ordinates for her torpedoing are 32° 44' S and 17° 22' E. (Levine 1989; van den Bosch 2009)</p> <p>These co-ordinates are in the southern end of the SASA and is where the U-boat reports torpedoing the vessel, not necessarily where she sank. In addition, the co-ordinates mentioned are subject to the technical limitations of the period.</p>	West Coast
23	<i>Discovery</i>	Disappeared	Britain	1644	Lost between India and Britain	Disappeared
24	<i>Earl of Abergavenny</i>	Disappeared	Britain	1805	This English East Indiaman, under Captain J. Wordsworth was lost "off the Cape Coast" (van den Bosch 2009).	Disappeared off Cape Coast
25	<i>Elizabeth Jane</i>	Unknown		1834	This vessel seems to be a whaler that operated in Tasmania and the southern oceans. Although I can find no further information on her status at this time, I have left her in the database.	Unknown

26	<i>Ellen</i>	Capsized		1915	Capsized by a wave. None of the databases list a location. However, the West Coast was a prime fishing spot so it is left in the database.	Unknown
27	<i>Juno</i>	Fire, abandoned	Sweden	1885	<p>The 1274-ton schooner, under Captain T. Keyller was bound from Norway for Melbourne with a cargo of deals (timber). She caught fire and was abandoned at approximately 37 24.00S, 11 30.00E. the 22-man crew took to the lifeboats and set off towards the Cape. The currents washed them towards the Orange River. They attempted to beach the lifeboat 32km south of the river but capsized and there were only four survivors. These four were picked up by the <i>Namaqua</i> and taken to Cape Town. (Levine 1989; van den Bosch 2009).</p> <p>It follows that if the current brought the lifeboat towards the Orange River, that the same principle could apply to the abandoned schooner.</p>	Abandoned
28	<i>Florence Barclay</i>	Fire, abandoned	Britain	1872	<p>This 243-ton barque was built in 1866. Under Captain J.H. Voller, she was bound from Hull for Table Bay and Mauritius. Somewhere off the west coast, the vessel caught fire and was abandoned. The crew were in three lifeboats, one of which disappeared during the first night at sea. The other two boats arrived at Pomona Island (Namibia) three days later. The survivors were taken to Table Bay by the <i>Lilla</i>. (Levine 1989)</p> <p>As the crew beached only 120km north of the concession areas, I have included this vessel.</p>	West Coast
29	<i>Glenogle</i>	Fire, abandoned	Britain	1901	<p>According to van den Bosch (2009), this 914-ton steel barque caught fire and was abandoned at 34 38.00S, 03 40.00E.</p> <p>The Equatorial current which runs west to east here could have pulled the abandoned vessel into the Benguela current and up the west coast.</p>	Abandoned
30	<i>Good Hope</i>	Fire, sank	Cape?	1863	I have very little information on this wreck. Only that she was a Cape trader and burned at sea. (van den Bosch 2009)	Burnt at sea
31	<i>Haab</i>	Abandoned	Norway	1897	<p>This 861-ton wooden barque was according to Levine (1989) grounded on Dassen Island. However, according to van den Bosch (2009), she was abandoned 260.5 NM off Table Bay and may be off Dassen Island.</p> <p>The problem with this assumption, is that Dassen Island is only c. 35 NM from Table Bay (i.e the Port). 260.5 NM means that the vessel was abandoned in the SASA, near concession 4B.</p>	<p>Co-ordinates worked out on 260.5 NM, however this is an <b>approximation</b></p> <p>29° 48.222'S 16° 45.125'E **</p>
32	<i>Hartfield</i>	Fire, sank	Britain	1895	According to van den Bosch (2009) and Levine (1989), this 852-ton iron barque caught fire at 34 30.00S, 11 30.00E, 259 NM west of Table Bay.	West Coast



					The Equatorial current which runs west to east here could have pulled the abandoned vessel into the Benguela current and up the west coast.	
33	<i>Honcoop / Hencoop</i>		Netherlands / Britain	c.1796	This vessel was taken from the Dutch by the British at The Battle of Saldanha (1871), she was being sailed at a prize back to England when she disappeared (The London Gazette: 1796)	Disappeared
34	<i>Hope</i>			1836	Possibly lost on the West Coast	West Coast?
35	<i>India</i>	Abandoned	Sweden	1881	Abandoned at 7° E. Could be on the West Coast.	West Coast?
36	<i>Joachim</i>	Fire, abandoned	German	1868	Apparently the 763-ton barque under Captain Helenmeyer was on a voyage from Bremen to Rangoon with a cargo of coal. When she "burnt off the Cape". Her crew were rescued by the American vessel, <i>China</i> and brought to Cape Town (Levine 1989).	Off the Cape
37	<i>Kalewa</i>	Collision, sank	Britain	1942	This 4389-ton steamship collided with the <i>Boringa</i> . Hocking's (1969) co-ordinates are 30° 16' S 13° 38' E; van den Bosch's (2009) co-ordinates are 30 14.00S,12 50.00E.  As this position is near the SASA, and due to the inaccuracy of geographic positioning in the middle of the 20 <sup>th</sup> century, I have included this vessel in the database.	Approximately: 30° 16' S 13° 38' E or 30 14.00S,12 50.00E**
38	<i>Laporte / La Porte</i>		London	1904	This 2448-ton steamer belonging to the Colorado Steamship Company, was built in 1902 at the Grangemouth & Greenock Dockyard Company. Under Captain H.J. Hill, she was on a voyage from Cardiff for Cape Town with coal when she foundered in a north-westerly gale. The surviving crew report that she was approximately 160km from shore and 80km north of Port Nolloth. Of the 23 crew, only 12 made it to Port Nolloth in a lifeboat. (Levine 1989). According to van den Bosch (2009), the vessel suffered an explosion 43.2 NM north of Port Nolloth and 100m from shore. According to the Miramar Ship Index (2009), she sank 50 NM west of Port Nolloth.  As can be seen, although the available information is contradictory, Position 2 falls near 1A and 1B. Position 1 and 3 fall far beyond the Mining Right areas.	All <b>approximations</b>  Position 1: 28° 35.691'S 14° 48.532'E  Position 2: <b>28° 37.133'S 16° 24.555'E</b>  Position 3: 29° 17.078'S 15° 55.764'E**
39	<i>Leonine Mary</i>	Disappeared	Cape	1859	This Cape coaster disappeared somewhere off the Cape coast.	Cape Coast
40	<i>Luba / Luban</i>	Fire, abandoned	Cape	1864	This barque was on her way from Leith for Cape Town with a cargo of coal and coal tar when she caught fire and sank 86.3 NM off Table Bay. Her crew were rescued. (Levine 1989; van den Bosch 2009)	West Coast

					This puts the wreck in the SASA.	
41	<i>Mariner</i>	Leaking, abandoned	Britain?	1826	<p>This vessel was having a hard time of it, the month before she was abandoned, she lost her topmasts and a man was swept overboard. Two weeks later she lost her rudder and started leaking. Despite pumping the water from her holds continuously, the water continued to rise. When it was over a metre deep, the vessel hoisted a distress signal. The <i>Harriet</i> came to their rescue and the vessel was abandoned in “the latitude of the Cape of Good Hope”. The crew were landed in Mauritius. (Levine 1989)</p> <p>As the vessel was abandoned near the Cape Peninsula, it could have drifted north on the currents into the SASA.</p>	Abandoned
42	<i>Mary</i>	Disappeared	Britain	1870	<p>Under Captain Anderson, this vessel left Simon’s Bay for Falmouth and disappeared. (Levine 1989)</p> <p>As the intended route goes up the west coast, I have included this vessel.</p>	Disappeared
43	<i>Mistress of the Seas</i>	Fire, lost	?	1869	<p>Built in 1863, this 1241-ton ship, on a voyage from India to Havre with a cargo of cotton, was reported as “lost by fire off the Cape”. (Levine 1989). However, an entry in Record of Canadian Shipping (Wallace 1929: 191), “...ship, 1241 tons, 190.0 x 38.0 x 24.0 Built 1863, Miramichi, N.B. Sold Greenock. Foundered Indian Ocean, 1870, ten drowned.”</p> <p>This vessel could be anywhere off the Cape Coast. More probably the southern Cape coast.</p>	Off the Cape
44	<i>Mona</i>	Fire, abandoned	Britain	1887	<p>The 1045-ton barque under Captain Pearson was on a voyage from Grimsby to Durban with coal when she caught fire at 27° 14′ S 24° 55′ W. The following day the crew took to the lifeboats. After a week, the crew were picked up by the German barque, <i>Livingstone</i> and landed at Mossel Bay. (Levine 1989)</p> <p>The current was clearly pushing the survivors towards the Cape coast and, so it follows that their vessel, abandoned before sinking, may also have been pulled by the currents towards the west coast.</p>	Abandoned
45	<i>Nortun</i>	Torpedoed	Panama	1943	<p>This 3 663-ton ship was bound from Table Bay to Bahia when she was torpedoed and sunk by the U-516 about 130km south-west of Lüderitz at 28° 00′ S 14° 55′ E. (Levine 1989; van den Bosch 2009).</p> <p>These co-ordinates are just north of the SASA and is where the U-boat reports torpedoing the vessel, not necessarily where she sank. In addition, the co-ordinates mentioned are subject to the technical limitations of the period.</p>	<b>Approximately:</b> 28° 00′ S 14° 55′ E. **
46	<i>Oliver Cromwell</i>	Fire, abandoned	Britain	1874	<p>This vessel, on a voyage from Newcastle to Aden with a cargo of coal, caught fire. The crew were rescued by the barque <i>Saxon</i> and brought to Table Bay. (Levine 1989).</p>	Abandoned

					There is very little information on this vessel, so she is included in the database.	
47	<i>Orissa</i>	Fire, abandoned	Britain	1869	<p>This 634-ton, three-masted, wooden ship was built in 1862. Under Captain R. Adams, bound for Mauritius with a cargo of coal, she caught fire and was abandoned 343.2 NM west of Table Bay. (Levine 1989; van den Bosch 2009).</p> <p>The Equatorial current which runs west to east here could have pulled the abandoned vessel into the Benguela current and up the west coast.</p>	Abandoned
48	<i>Oswin</i>	Leaking, abandoned	Britain	1819	<p>According to Captain Ray, the commander of the vessel, the ship had sprung a leak in the vicinity of Cape Agulhas and while the pumps were working 24 hours a day, they were unable to make any headway on the leak. By the next day, there was 1.5m of water in the hold and this was increasing. The crew launched the longboat and filled her with supplies. "Embarking in the boat the commander and crew steered for Saint Helena, and were from the 31<sup>st</sup> Jan. to the 12<sup>th</sup> Feb. exposed to great sufferings and anxiety, until they reached Saint Helena. During this time they ran about 1400 miles and were particularly fortunate in making the Island to a mile." (The Asiatic Journal 1820: 388)</p> <p>Depending on whether this newspaper report was using nautical miles or statute miles, makes a difference to the location of the wreck. Statute miles puts the vessel near Lüderitz, nautical miles puts the wreck in the vicinity of the SASA.</p>	West Coast
49	<i>Prins Wilhelm van Zeeland</i>		Netherlands	1659?	The only reference to this vessel I could find was the Prins Willem which sank near Madagascar in 1662. However, as it is from a period with few records, I am leaving it in the database for now.	Unknown
50	<i>Senator</i>	Abandoned		1859	Crew landed at Table Bay on 23 November 1859 by the Norwegian brig Favourita.	Cape Coast
51	<i>Typhoon</i>	Leaking, abandoned	Britain	1860	Built in 1852 by Cannon & sons in Glasgow, this 965-ton ship under Captain J. Brown was bound for India from Liverpool when she was abandoned in a leaking condition, "off the Cape". (Levine 1989; van den Bosch 2009).	Abandoned
52	<i>U-179</i>	Depth charges	Germany	1942	<p>U-179 was responsible for torpedoing the British steamship <i>City of Athens</i>, about 45km to the south-east on the same day as the U-boat was surprised on the surface by <i>H.M.S. Active</i>. As she dived, the British vessel launched depth charges. Van den Bosch (2009) gives her co-ordinates as 33 25.00S,17 10.00E. All hands were lost (61 crew). (Levine 1989; U-boat.net 2017)</p> <p>These co-ordinates are just south of the SASA and is where the vessel reports depth charging the U-boat, not necessarily where she sank. In addition, the co-ordinates mentioned are subject to the technical limitations of the period.</p>	<p><b>Approximately:</b> 33 25.00S,17 10.00E. **</p>