

The uMkhomazi Water Project: Phase 1: Module 1: Technical Feasibility Study: Raw Water (uMWP1-1/RW)

Details of boreholes / test pits

No.	Borehole/test pit	District Municipality	Local Municipality	10 000 Aerial Photos	1:50000 Topographical Map	Traditional Authority	Area/Town	Property description (farm name, portion, lot, erf)	Y (East) coordinate	X (South) coordinate
Boreholes for tunnel										
1	BH1	Sisonke District Municipality	Ingwe Local Municipality	2929DD_05	2929DD	-	-	Crowle R/E	29 Y-091891	X3294347
2	BH2	Sisonke District Municipality	Ingwe Local Municipality	2929DD_05	2929DD	-	-	Crowle R/E	29 Y-091940	X3294350
3	BH3	Sisonke District Municipality	Ingwe Local Municipality	2929DD_05	2929DD	-	-	Crowle R/E	29 Y-092067	X3294358
4	BH4	Sisonke District Municipality	Ingwe Local Municipality	2930CC_01	2930CC	-	-	Nooitgedacht 1026	31 Y 094647	X3294572
5	BH5	Umgungundlovu District Municipality	Richmond Local Municipality	2930CC_03	2930CC	-	-	Cottingham 1856	31 Y0085723	X3294802
6	BH6	Umgungundlovu District Municipality	Richmond Local Municipality	2930CC_05	2930CC	-	-	Onrust 848	31 Y 073838	X3295060
7	BH7	Umgungundlovu District Municipality	Richmond Local Municipality	2930CD_01	2930CD	-	-	Nooitgedacht 903	31 Y 068452	X3295203
8	BH8	Umgungundlovu District Municipality	Richmond Local Municipality	2930CD_02	2930CD	-	-	Nooitgedacht 903	31 Y 067426	X3295219
Smithfield Dam - Borehole positions										
9	QL 1	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-91100	X3295820
10	QL 2	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-91260	X3295700
11	QL 3	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-91760	X3295280
12	QL 4	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-91840	X3295100
13	QL 5	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-91659	X3295689
14	QL 6	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-91480	X3295770
15	QL 7	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-91540	X3295610
16	QL 8	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-91460	X3295640
17	QL 9	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-91500	X3295200
18	QL 10	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-91710	X3295070
19	QL 11	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-91720	X3295510
20	QL 12	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-91850	X3295580
21	QLS 1	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-91230	X3295591
22	QLS 2	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-91296	X3295450
23	QLS 3	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-91375	X3295312
24	QLS 5	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-91430	X3295534
25	QLS 6	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-91523	X3295360
26	QLS 7	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-91604	X3295209
27	QLS 8	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-91412	X3295420
28	QLS 9	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-91535	X3295455
29	SSS 1	Sisonke District Municipality	Ingwe Local Municipality	2929DD_05	2929DD	-	-	Smithfield	29 Y-92112	X3295586
30	SSS 2	Sisonke District Municipality	Ingwe Local Municipality	2929DD_05	2929DD	-	-	Smithfield	29 Y-92247	X3295784
31	SSS 3	Sisonke District Municipality	Ingwe Local Municipality	2929DD_05	2929DD	-	-	Smithfield	29 Y-92292	X3295856
32	SSS 4	Sisonke District Municipality	Ingwe Local Municipality	2929DD_05	2929DD	-	-	Smithfield	29 Y-92356	X3295973
33	DL 4	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y -90910	X3295720
34	DLS 1	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-90890	X3295856
35	DLS 2	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-90879	X3295915
36	DLS 3	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-90856	X3296019
37	DRS 1	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Upper Umkamaas Location No 2, 16615	29 Y-90927	X3295533
38	DRS 2	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Upper Umkamaas Location No 2, 16615	29 Y-90887	X3295262
39	DRS 3	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Upper Umkamaas Location No 2, 16615	29 Y-90830	X3294990
40	DR 1	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Upper Umkamaas Location No 2, 16615	29 Y-90920	X3295632
41	DR 2	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Upper Umkamaas Location No 2, 16615	29 Y-90926	X3295626
42	DR 3	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Upper Umkamaas Location No 2, 16615	29 Y-90892.36	X3295393.2
43	DR 4	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Upper Umkamaas Location No 2, 16615	29 Y-90850	X3295150
44	DTS 1	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Upper Umkamaas Location No 2, 16615	29 Y-90901	X3295505
45	DTS 2	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Upper Umkamaas Location No 2, 16615	29 Y-90998	X3295463
46	DT 1	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Upper Umkamaas Location No 2, 16615	29 Y-90770	X3295440
47	DT 2	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Upper Umkamaas Location No 2, 16615	29 Y-91010	X3295340
48	DT 5	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Upper Umkamaas Location No 2, 16615	29 Y-91076	X3295461
49	DS 1	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-90960	X3296120
50	DS 2	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-91150	X3295980
51	DS 4	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-90560	X3295640
52	DS 5	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-90352	X3295747
53	DS 6	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-90630	X3295700
54	DS 7	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-90532	X3295747
55	DS 8	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-90670	X3295790
56	DSS 1	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-90683	X3295882
57	DSS 2	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-90559	X3295841
58	DSS 3	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-90434	X3295800
59	SES 1	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-91576	X3295985
60	SES 2	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-91798	X3295867
61	SES 3	Sisonke District Municipality	Ingwe Local Municipality	2929DD_05	2929DD	-	-	Smithfield	29 Y-91900	X3295809

Nooitgedacht Balancing Dam - Borehole & Test pit positions										
62	NM 1	Umgungundlovu District Municipality	Richmond Local Municipality	2930CD_01	2930CD	-	-	Nooitgedacht 903	Y67795.69	X3296839.78
63	NM 2	Umgungundlovu District Municipality	Richmond Local Municipality	2930CD_01	2930CD	-	-	Nooitgedacht 903	Y67759.51	X3296826.62
64	NM 3	Umgungundlovu District Municipality	Richmond Local Municipality	2930CD_01	2930CD	-	-	Nooitgedacht 903	Y67717.06	X3296828.83
65	NM 4	Umgungundlovu District Municipality	Richmond Local Municipality	2930CD_02	2930DD	-	-	Nooitgedacht 903	Y67686.13	X3296878.53
66	NM 5	Umgungundlovu District Municipality	Richmond Local Municipality	2930CD_02	2930DD	-	-	Nooitgedacht 903	Y67657.74	X3296865.73
67	NM 6	Umgungundlovu District Municipality	Richmond Local Municipality	2930CD_02	2930DD	-	-	Nooitgedacht 903	Y67563.2	X3296909.19
68	NM 7	Umgungundlovu District Municipality	Richmond Local Municipality	2930CD_02	2930DD	-	-	Nooitgedacht 903	Y67529.79	X3296925.62
69	MTP04	Umgungundlovu District Municipality	Richmond Local Municipality	2929DD_05	2929DD	-	-	Nooitgedacht 903	31 Y0067849	X3296898
70	MTP05	Umgungundlovu District Municipality	Richmond Local Municipality	2929DD_05	2929DD	-	-	Nooitgedacht 903	31 Y0068039	X3297099
71	MTP07	Umgungundlovu District Municipality	Richmond Local Municipality	2929DD_05	2929DD	-	-	Nooitgedacht 903	31 Y0068251	X3297273
72	MTP08	Umgungundlovu District Municipality	Richmond Local Municipality	2929DD_05	2929DD	-	-	Nooitgedacht 903	31 Y0068100	X3297600
73	MTP09	Umgungundlovu District Municipality	Richmond Local Municipality	2929DD_05	2929DD	-	-	Nooitgedacht 903	31 Y0068169	X3297800
74	MTP10	Umgungundlovu District Municipality	Richmond Local Municipality	2929DD_05	2929DD	-	-	Nooitgedacht 903	31 Y0068000	X3297829
75	MTP11	Umgungundlovu District Municipality	Richmond Local Municipality	2929DD_05	2929DD	-	-	Nooitgedacht 903	31 Y0067950	X3297696
76	MTP12	Umgungundlovu District Municipality	Richmond Local Municipality	2929DD_05	2929DD	-	-	Nooitgedacht 903	31 Y0067886	X3297815
77	MTP13	Umgungundlovu District Municipality	Richmond Local Municipality	2929DD_05	2929DD	-	-	Nooitgedacht 903	31 Y0067865	X3297634
78	MTP14	Umgungundlovu District Municipality	Richmond Local Municipality	2929DD_05	2929DD	-	-	Nooitgedacht 903	31 Y0067849	X3297509
79	MTP15	Umgungundlovu District Municipality	Richmond Local Municipality	2929DD_05	2929DD	-	-	Nooitgedacht 903	31 Y0067986	X3297310
80	MTP16	Umgungundlovu District Municipality	Richmond Local Municipality	2929DD_05	2929DD	-	-	Nooitgedacht 903	31 Y0067803	X3297335
81	MTP18	Umgungundlovu District Municipality	Richmond Local Municipality	2929DD_05	2929DD	-	-	Nooitgedacht 903	31 Y0067883	X3297081
Smithfield Dam - Test pit positions										
82	TPA6	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-091187	X3293835
83	TPA7	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-091715	X3295060
84	TPA8	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-091800	X3295140
85	TPA9	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-091900	X3295200
86	TPA10	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-091820	X3295290
87	TPA11	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-091750	X3295380
88	TPA12	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-091678	X3295309
89	TPA13	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-091550	X3295170
90	TPA14	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-091450	X3295200
91	TPA15	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-091540	X3295280
92	TPA16	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-091610	X3295380
93	TPA17	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-091690	X3295460
94	TPA18	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-091431	X3295441
95	TPA19	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-091470	X3295381
96	TPA20	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-091330	X3295270
97	TPA21	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-091192	X3295305
98	TPA22	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-091250	X3295390
99	TPA23	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-091360	X3295500
100	TPA25	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-091203	X3295371
101	TPA26	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-091857	X3294990
102	TPA27	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-091456	X3295127
103	TPB5	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Crowle	29 Y-091800	X3294420
104	TPB6	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Crowle	29 Y-091670	X3294220
105	TPB7	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Crowle	29 Y-091660	X3294030
106	TPB8	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Crowle	29 Y-091500	X3294220
107	TPB9	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Crowle	29 Y-091340	X3294240
108	TPB10	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Crowle	29 Y-091320	X3294040
109	TPB11	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Crowle	29 Y-091120	X3294030
110	TPB12	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Crowle	29 Y-091440	X3293790
111	TPB13	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Crowle	31 Y-91200	X3293700
112	TPC1	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-091648	X3295443
113	TPC2	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-091970	X3295696
114	TPC3	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-091869	X3295573
115	TPC4	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-091935	X3295792
116	TPC5	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-091708	X3295864
117	TPC6	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Smithfield	29 Y-091568	X3295802
Tunnel - Inlet portal										
118	TP1	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Crowle	29 Y-091847	X3294378
119	TP2	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Crowle	29 Y-091806	X3294391
120	TP3	Sisonke District Municipality	Ingwe Local Municipality	2929DD_04	2929DD	-	-	Crowle	29 Y-091861	X3294446
121	TP4	Sisonke District Municipality	Ingwe Local Municipality	2929DD_05	2929DD	-	-	Crowle	29 Y-091902	X3294452
122	TP5	Sisonke District Municipality	Ingwe Local Municipality	2929DD_05	2929DD	-	-	Crowle	29 Y-091918	X3294406
Tunnel - Exit portal										
123	TPO1	Umgungundlovu District Municipality	Richmond Local Municipality	2930CD_02	2930CD	-	-	Nooitgedacht 903	31 Y0067415	X3295236
124	TPO2	Umgungundlovu District Municipality	Richmond Local Municipality	2930CD_02	2930CD	-	-	Nooitgedacht 903	31 Y0067425	X3295219
125	TPO3	Umgungundlovu District Municipality	Richmond Local Municipality	2930CD_02	2930CD	-	-	Nooitgedacht 903	31 Y0067456	X3295191
126	TPO4	Umgungundlovu District Municipality	Richmond Local Municipality	2930CD_02	2930CD	-	-	Nooitgedacht 903	31 Y0067405	X3295175