

Table A.1: CES WATER MASTER PLAN ITEMS - PROPOSED WORKS AND PHASING

Item	Description	Estimated cost (Incl. P&G, Contg.'s Fees, excl. VAT)	Development Related or Comments with respect to timing
		2017	
BEAUFORT WEST			
Distribution System Items			
BWW1.1	260 m x 200 mm Ø supply pipe	R653 610	When items BBW.B1 & B2 are constructed
BWW1.2	80 m x 200 mm Ø supply pipe	R387 797	When future area B8 & B9 develops
BWW1.3	70 m x 250 mm Ø parallel reinforcement of main pipe	R489 752	
BWW1.4	990 m x 200 mm Ø parallel reinforcement of main pipe	R1 720 506	When future area B1 - B4 develops
BWW1.5	50 m x 250 mm Ø supply pipe	R449 698	When item BBW.B3 is constructed
BWW1.6	130 m x 200 mm Ø parallel reinforcement of main pipes	R551 654	
BWW1.7	5 m x 160 mm Ø inter- connection pipe	R225 759	
BWW1.8	725 m x 200 mm Ø parallel reinforcement of main pipes	R1 387 329	When future area B8 & B9 develops
BWW1.9	5 m x 110 mm Ø inter-connection pipe	R151 113	
BWW1.10	40 m x 110 mm Ø inter-connection pipe	R200 271	
BWW2.1	Set Kwa-Mandlenkosi PRV to 35 m head	R0	When pressure problems occur in North Kwa Mandlenkosi
Sub-Total		R6 217 489	
Bulk Supply Items			
BBW.B1	New 100 kl balancing tank	R637 224	When boreholes HR 10, 13 & HK NDA are utilized as additional bulk supply to Beaufort West
BBW.B2	New 32 l/s @ 70m pump station	R2 370 475	When boreholes HR 10, 13 & HK NDA are utilized as additional bulk supply to Beaufort West
BBW.B3	New 3 000 kl reservior	R10 532 409	When existing reservoir storage nears capacity
Sub-Total		R13 540 108	
Water Demand Management			
BBW.M1	Telemetry at reservoirs, pumping stations and bulk water meters	R254 890	
BBW.M2	New Rustdene PRV (Setting = 40 m head)	R1 813 359	
BBW.M3	New non - return valve on 100 mm Ø pipe	R131 086	
BBW.M4	5 m x 110 mm Ø inter-connection pipe	R149 293	When items BBW.M2 & M3 are implemented
BBW.M5	Change direction of existing non return valve on 150mm Ø pipe	R0	
Sub-Total		R2 348 627	
Total		R22 106 225	
MERWEVILLE			
Distribution System Items			
BMW1.1	465 m x 160 mm Ø parallel reinforcement of main pipe	R761 028	When existing erven is fully occupied
Sub-Total		R761 028	
Bulk Supply Items			
BMW.B1	New 500 kl reservior	R3 237 100	When existing reservoir storage nears capacity
Sub-Total		R3 237 100	
Water Demand Management			
BMW.M1	Telemetry at reservios,pumping stations and bulk water meters	R127 445	
Sub-Total		R127 445	
Total		R4 125 573	
NELSPOORT			
Distribution System Items			
BNW1.1	130 m x 110 mm Ø supply pipe	R251 248	When future area N2 develops
BNW1.2	270 m x 110 mm Ø supply pipe	R362 308	When future area N2 and N3 develops
Sub-Total		R613 556	
Water Demand Management			
BNW.M1	Telemetry at reservoirs, pumping stations and bulk water meters	R127 445	
Sub-Total		R127 445	
Total		R741 001	

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