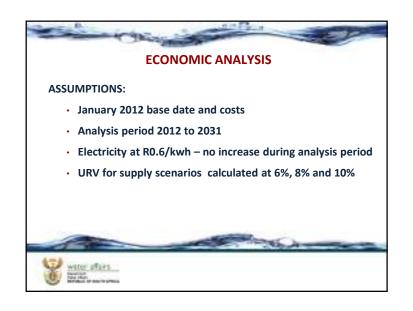
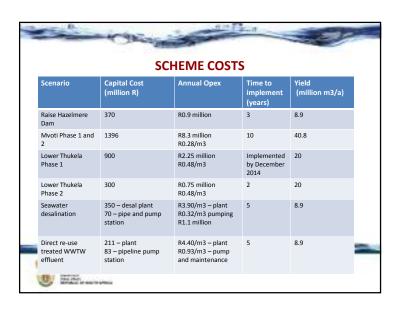
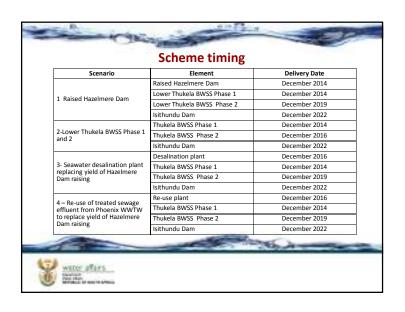


Lower Thukela Water Availability 45 million m³/year available yield (recon strategy) 40 million m³/year to Lower Thukela BWSS 5 million m³/year to upgrade of Sundumbili WTP 32 million m³/year unused allocation for Mhlatuze Water







www	2011		2016		2021		2031	
	million m³/year	ML/d	million m³/year	ML/d	million m³/year	ML/d	million m³/year	ML/d
Northern	20.6	56	21.5	59	22.6	62	23.5	64
Kwa Mashu	25.5	70	27.5	75	29	80	29.6	81
Phoenix	11.1	31	15.4	42	18.4	50	20.8	57
New Mdloti	4.0	11	8.9	24	11.7	32	13.3	36
Total	61.2	168	73.3	200	81.7	224	87.2	238
80% recovery	for direct re	e-use						
Northern	16.5	44.8	17.2	47.2	18.1	49.6	18.8	51.2
Kwa Mashu	20.4	56.0	22.0	60.0	23.2	64.0	23.7	64.8
Phoenix	8.9	24.8	12.3	33.6	14.7	40.0	16.6	45.6
New Mdloti	3.2	8.8	7.1	19.2	9.4	25.6	10.6	28.8
Total								
	49.0	134.4	58.6	160.0	65.4	179.2	69.8	190.4

Scenario	6%	8%	10%	
1 – Hazelmere Dam	7.37	8.31	9.33	
2-Lower Thukela BWSS	6.50	7.26	8.09	
3-Seawater desal	7.77	8.69	9.69	
4-Direct re-use WWTW	7.67	8.54	9.47	



- > Lower Thukela BWSS has lowest URV
- > URV for desal, re-use and Hazelmere Dam raising are similar
- > Different levels of confidence in cost information
- > Lower Thukela BWSS Phase 2 suggested?
- > Supply needs optimisation Hazelmere Dam raising, Isithundu Dam phasing, desal, re-use

