

## Western Cape Water Supply System Reconciliation Strategy Continuation

Administrative and Technical Support Group  
Meeting #1 – 12 June 2013

presentation by UWC communication services

## Agenda

- Current status
- Progress with studies – City of Cape Town
- Progress with studies – DWA
- Strategy Steering Committee
  - Structure and attendance
  - Reporting

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## Current Status

- Annual Status Report – Last submitted Nov 2011
  - High water requirement growth
  - Limited success in WC/WDM measures
  - Several studies behind schedule
  - Four reconciliation scenarios
    - Reference scenario (best case, 100% WC/WDM),
    - Medium scenario (50% WC/WDM)
    - Worst case scenario (climate change effect),
    - Ecological Reserve

– Next scheme in 2019, decision in 2013

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## Water Requirement Scenarios

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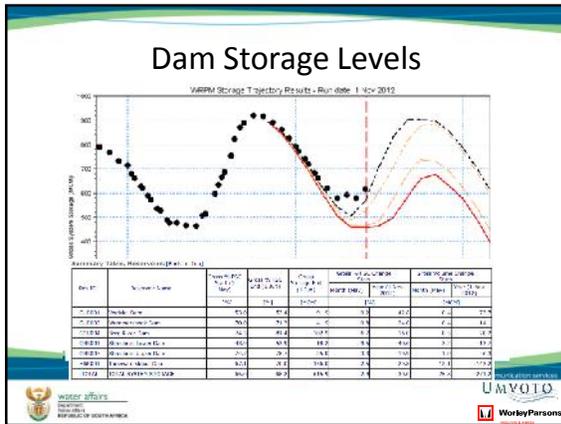
## Water Reconciliation Scenario

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## Water Reconciliation Scenario

No	Intervention	Year of First Water	Yield (million m³/a)	Fast-tracked
1	Optimise System Operation	2012	14	No
2	Voelvlei Phase 1	2020	35	No
3	Lourens	2022	19	No
4	Cape Flats Aquifer	2023	18	No
5	DWA-ASR: West Coast	2024	14	No
6	TMG Scheme 1	2025	20	No
7	Raise Lower Steenbras	2026	25	No
8	Re-use Generic 1	2027	40	No
9	Re-use Generic 2	2029	40	No
10	Desalination	2030	80	No

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- ### Progress – City of Cape Town
- Water re-use feasibility study
  - Desalination feasibility study
  - TMG Aquifer Feasibility Study and Pilot Project
  - Cape Flats and Newlands aquifer feasibility study
  - Lourens River Dam feasibility study
  - CCT WC/WDM measures
  - Developments and water requirement
- water affairs  
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- ### Progress – DWA
- Surface water feasibility study
    - Michell's Pass diversion
    - Voëlvlei Augmentation
  - Langebaan Road Aquifer Artificial Recharge scheme
  - Berg River water quality
  - Others
- water affairs  
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- ### Strategy Steering Committee
- Objectives
  - Structure
    - Frequency: 2-times per annum
    - Attendance: RO, CCT, Province, WSAs
    - Location of meeting: Cape Town
  - Reporting
    - Structure: Annual Status Report
- water affairs  
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- ### SSC - Structure
- Representation
    - DWA directorates HO
    - DWA directorates RO
    - Provincial departments
    - City of Cape Town
    - BOCMA
    - WSAs / WSPs supplied form WC WSS
- water affairs  
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### IWA Water Balance

Extended IWA Water Balance for 2011 (Municipal financial year ending June)

Water resource	Treatment	Recirculation	Consumption	Billed / un-billed	Revenue
Raw water abstracted	Raw water input	System input	Authorised Consumption	Billed metered	Raw water meter
	WTW	WTW		Revenue Water	
Dam	336 644 169.00	285 217 698.00	297 050 354.43	Billed unmetered	225 344 881.47
Roosfontein River	No treatment	No treatment			
		32 879 785.00		Unbilled unmetered	None revenue input
Groundwater		Purchased		Unbilled unmetered	None revenue input
Treated effluent	Total input WTW	Total treated	Physical losses	Apparent losses	59 872 816.53
	336 644 169.00	318 097 483.00	18%	15%	15%
Seawater		Total system input	Real losses	Real losses	51 047 128.57
		318 097 483.00	10%	10%	10%
Other / purchased		Treatment losses	Bulk supply losses	Apparent bulk loss	None revenue input
336 644 169.00		18 546 686.00	18 546 686.00	18 546 686.00	78 419 502.53
Total	336 644 169.00		6%	Real bulk losses	23%
				18 546 686.00	

presentations by UMYOIO



