

CITY OF CAPE TOWN
ISIXEKO SASEKAPA
STAD KAAPSTAD

Report To Subcouncil

Subcouncil 1

1. ITEM NUMBER : 01SUB10/06/2019

2. SUBJECT/ISIHLOKO/ONDERWERP :

CITY OF CAPE TOWN: WATER DAM LEVELS

3. Purpose

The purpose of the report is to inform Subcouncil 1 of the dam water levels.

4. RECOMMENDATIONS

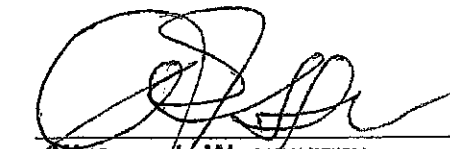
That Subcouncil notes the content of the report.

FOR FURTHER DETAILS CONTACT:

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DIRECTORATE	Urban Management Area North



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WESSIE V.D. WESTHUIZEN
MANAGER SUBCOUNCIL 1


Comment:

NAME

V. V. Westhuizen

DATE

07/06/2019


CLLR. CYNTHIA CLAYTON
Chairperson Subcouncil 1

Comment:

NAME

Cynthia Clayton

DATE

7/6/2019

000175



CITY OF CAPE TOWN
ISIXEKO SASEKAPA
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City of Cape Town: Dam Levels Report

03 June 2019

DAM STORAGE (%)

46.4

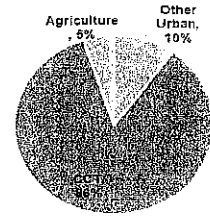
WEEKLY DAM LEVEL
CHANGE (%)

-0.4↓

AVG DAILY WATER USAGE
(FOR THE PAST WEEK)
ALL WATER SOURCES (Ml/d)

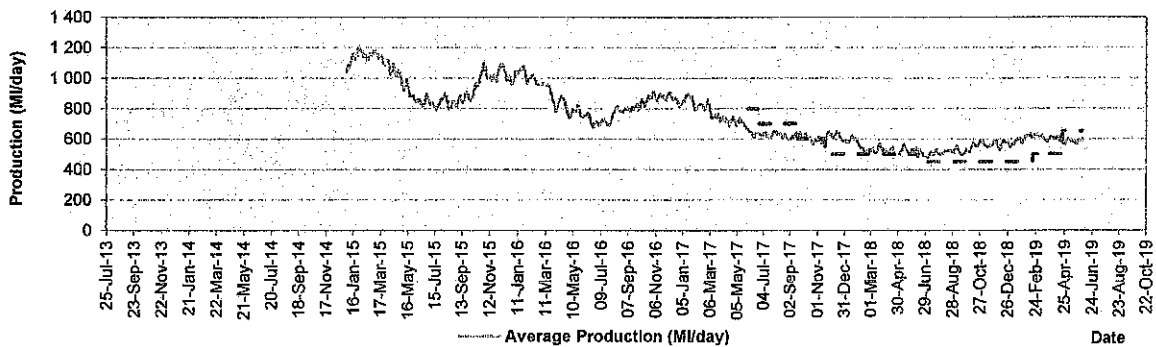
597

(Target 650Ml/d)



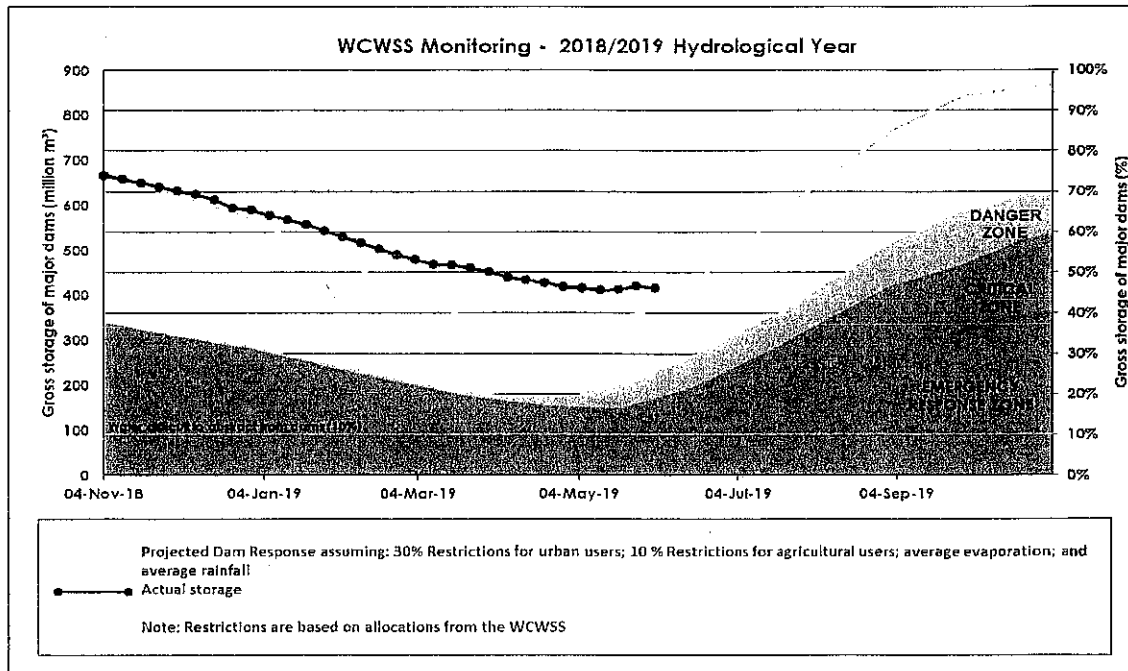
Disclaimer: The data depicted above is indicative and has been based on the City's own assessment of water use from the WCWSS. It is subject to official verification by the National Department of Water and Sanitation.

Water Usage from large dams comprising the Western Cape Water Supply System



Western Cape Water Supply System (WCWSS) weekly drought monitoring

This graph depicts total dam storage against potential system risk scenarios.

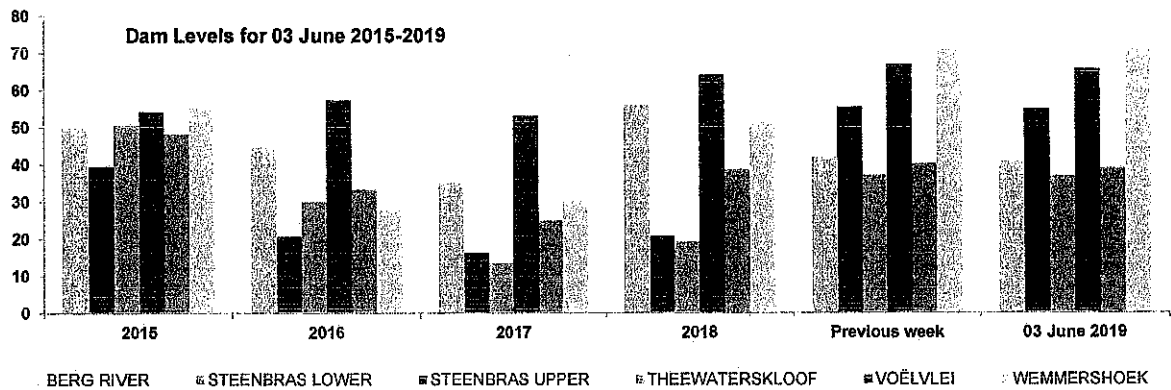


Water stored in major dams comprising Western Cape Water Supply System (WCWSS)

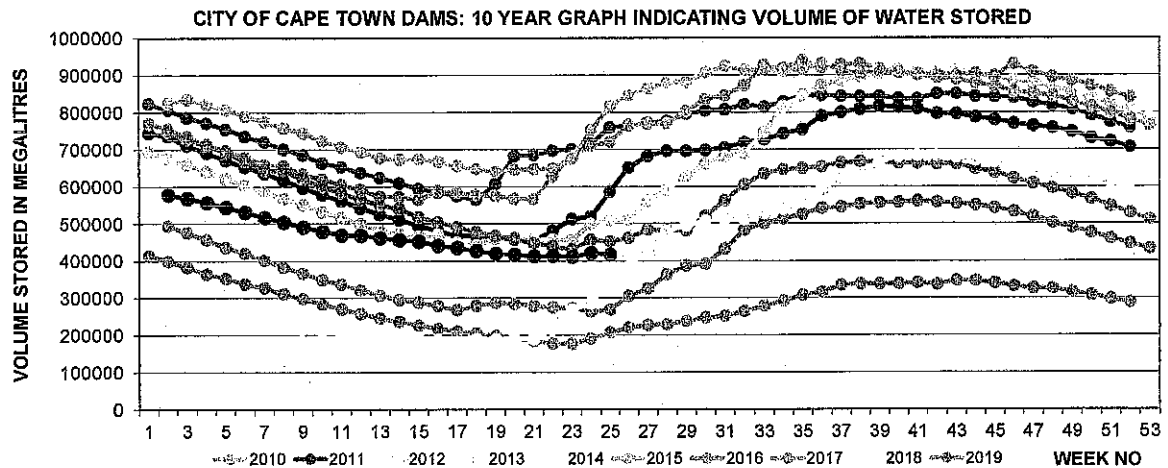
MAJOR DAMS	CAPACITY MI	STORAGE					
		% 03 June 2019	% Previous week	% 2018	% 2017	% 2016	% 2015
BERG RIVER	130 010	70.7	70.7	51.2	30.2	27.6	55.1
STEENBRAS LOWER	33 517	38.9	40.1	38.7	24.8	33.3	48.2
STEENBRAS UPPER	31 767	65.6	66.9	64.1	53.1	57.3	54.2
THEEWATERSKLOOF	480 188	36.8	37.0	19.2	13.4	29.9	50.6
VOËLVLEI	164 095	54.8	55.4	20.8	16.2	20.5	39.5
WEMMERSHOEK	58 644	40.6	41.8	55.9	35.0	44.7	49.9
TOTAL STORED	898 221	416 370	419 887	258 843	176 154	268 701	441 947
% STORAGE		46.4	46.7	28.8	19.6	29.9	49.2

NOTES:

- 1) Capacity of the major dams of the Western Cape Water Supply System is 99.6% and that of the minor dams 0.4% of the combined capacity of the major and minor dams. Kindly note that all the Major Dams show gross capacity.
- 2) All figures are for 03 June for each year except for those in the second column, which gives the figures for the previous week of this year.
- 3) The last 10% of a dam's water is difficult to use, the useable water in the dam is approximately 10% less than the dam level.



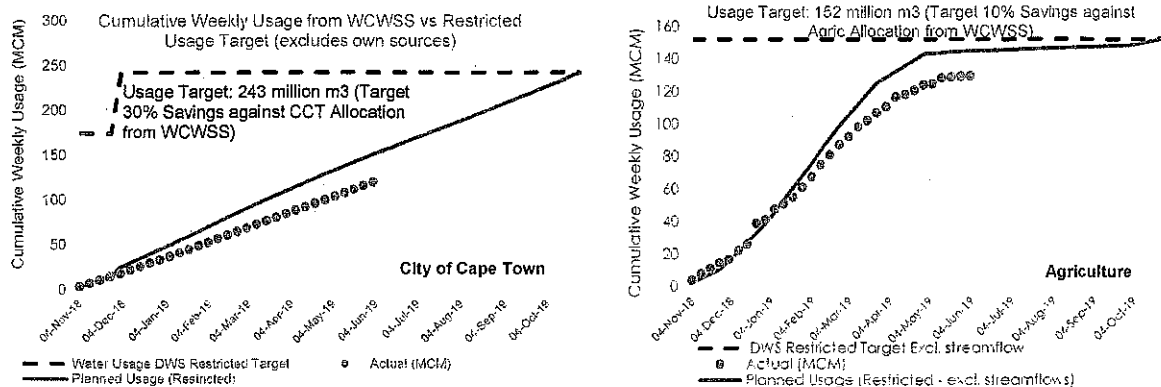
Ten year graph Indicating volume of water stored in major dams Comprising Western Cape Water Supply System (WCWSS)



Water stored in minor dams within Cape Town

MINOR DAMS	CAPACITY MI	%	STORAGE				
			% Previous week	% 2018	% 2017	% 2016	% 2015
ALEXANDRA (Table Mountain)	126	0.0	0.0	92.9	30.0	19.6	4.2
DE VILLIERS (Table Mountain)	243	65.0	65.0	60.9	40.8	77.3	47.0
HELY-HUTCHINSON (Table Mountain)	925	16.1	16.8	95.6	98.0	46.4	22.3
KLEINPLAATS (Simon's Town)	1 368	42.5	43.4	37.7	38.8	30.4	24.5
LAND-EN-ZEEZICHT (Helderberg)	451	95.7	97.4	91.3	69.0	19.1	0.0
LEWIS GAY (Simon's Town)	182	0.0	0.0	79.6	14.1	3.2	64.0
VICTORIA (Table Mountain)	128	8.9	8.9	35.6	67.9	0.0	5.7
WOODHEAD (Table Mountain)	954	59.1	59.0	70.1	72.0	81.4	52.6

Water usage from large dams comprising the Western Cape Water Supply System



CCT AVG DAILY
PRODUCTION WCWSS
LARGE DAMS ONLY
(Ml/d)

575

The above graph tracks City of Cape Town (CCT) water usage against the Department of Water and Sanitation (DWS) restriction requirement against our unrestricted demand (or past usage). Restriction targets have changed as of 1 December 2018. CCT has been restricted at 30% against the WCWSS approved allocation to the CCT.

Water Quality Sample Pass Rate

Month	Water Quality Compliance (%)	Target (%)
Apr-18	99.26	98
May-18	99.20	98
Jun-18	99.07	98
Jul-18	99.12	98
Aug-18	99.07	98
Sep-18	99.08	98
Oct-18	99.05	98
Nov-18	98.99	98
Dec-18	99.00	98
Jan-19	99.00	98
Feb-19	99.05	98
Mar-19	99.01	98
Apr-19	99.10	98

Notes:

This table shows CCT drinking water quality compliance according to the South African National Standard 241:2015. Compliance, measured against all prescribed chemical and microbiological components, consistently exceeds the very high CCT target of 98%. (Overall compliance percentages of continuous sampling and analysis are released on a monthly basis. The latest available is for December).

Rainfall

RAINFALL (mm)	27-May	28-May	29-May	30-May	31-May	01-Jun	02-Jun	May Total*	LT Average
Blackheath Upper								21.4	63.2
Brooklands								40.5	116.0
Newlands								105.3	233.6
Steenbras								39.6	114.1
Table Mountain (Woodhead)								86.7	186.2
Theewaterskloof	13.1							30.7	42.7
Tygerberg								38.0	60.4
Voštvlei								50.9	67.3
Wemmershoek								90.1	109.0
Wynberg								84.1	147.0

Notes: *Total/cumulative rainfall for month indicated above
LT: Long Term

Making progress possible. Together.

