



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA



EdTM

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MINISTER OF WATER AND SANITATION

NATIONAL ASSEMBLY: QUESTION 3374 FOR WRITTEN REPLY

A draft reply to the above mentioned question asked by Mrs Z B N Balindlela (DA) is attached for your consideration.

DIRECTOR-GENERAL

DATE: 8/10/15

DRAFT REPLY APPROVED/AMENDED

**MRS NP MOKONYANE
MINISTER OF WATER AND SANITATION**

DATE: 12.10.15

NATIONAL ASSEMBLY

FOR WRITTEN REPLY

QUESTION NO 3374

DATE OF PUBLICATION IN INTERNAL QUESTION PAPER: 4 SEPTEMBER 2015
(INTERNAL QUESTION PAPER NO. 35)

3374. Mrs Z B N Balindlela (DA) to ask the Minister of Water and Sanitation:

- (1) What is the estimated (a) percentage and (b) amount in litres of non-revenue water in each of the metropolitan municipalities as at the latest specified date for which information is available;
- (2) what is the water demand targets for each metro as set by her department's Water Reconciliation Strategies;
- (3) whether each metropolitan municipality has a water conservation and water demand management programme; if not, why not; if so, what are the relevant details of each programme?

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REPLY:

- (1) Refer to the Table below for the percentage and amount in litres of Non Revenue Water based on the 2013/2014 Municipal Cycle.

Table 1. Estimations of non-revenue water in metropolitan municipalities

| Name of Metropolitan Municipality | Percentage of NRW (%) | Amount in litres of NRW (Million litres) |
|-----------------------------------|-----------------------|--|
| Buffalo City | 39,5 | 25888 |
| City of Cape Town | 21,1 | 66 344 |
| Ekurhuleni | 37,8 | 134 675 |
| eThekwini | 39,4 | 131 022 |
| Johannesburg | 40,9 | 219 357 |
| Mangaung | 31,4 | 29 351 |
| Nelson Mandela Bay | 42,3 | 45 554 |
| Tshwane | 23,6 | 74 689 |

- (2) Refer to the Table below for the Water demands targets for each metropolitan municipality as per reconciliation studies.

Table 2. Water demand targets per metropolitan municipalities

| Name of Metropolitan Municipality | Water demand target (Mm ³ /a) |
|-----------------------------------|--|
| Buffalo City | 55,7 |
| City of Cape Town | 385,90 |
| Ekurhuleni | 343,00 |
| eThekwini | 283,00 |
| Johannesburg | 450,05 |
| Mangaung | 86,78 |
| Nelson Mandela Bay | 168,00 |
| Tshwane | 270,40 |

- (3) Yes, each metropolitan municipality has a water conservation and water demand management programme. Refer to **Annexure A**.

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Table 3. Details of implementation of WC/WDM programme in Metropolitan Municipalities

| Name of Metropolitan Municipality | WC/WDM Programme |
|-----------------------------------|---|
| Buffalo City | <ul style="list-style-type: none"> • Installation of water meters on villages, flat rated areas, fire mains, schools and fire trucks • Replacement of water meters older than ten years • Bulk metering |
| City of Cape Town | <ul style="list-style-type: none"> • Monitoring and pro-active maintenance • Education and Awareness • Meter Audits and data clean-up • Pressure Management • Leak Detection • Pipe Replacement • Meter Audits of household • SAP clean up • New meter installation |
| Ekurhuleni | <ul style="list-style-type: none"> • Replacement of Mid-Block Mains • Pipeline and Valve Replacement • Pressure Management • Replacement of Aging Domestic Meters • Indigent Properties Leak Fixing • General Revenue Enhancement Projects • Water Conservation Campaign and Education Awareness • Metering • Training of the maintenance teams |
| eThekwini | <ul style="list-style-type: none"> • Efficient operation of the water supply system • Replacement of wasteful water devices with water saving devices • Implement active and passive leakage control • Water wise gardening • Education and public awareness • Pressure management • Recycling • Metering • Night flow monitoring and water audits • Water conservation based tariff setting. |
| City of Johannesburg | <ul style="list-style-type: none"> • Pressure Management • Water mains Replacement • Active leak Detection • Soweto Infrastructure Upgrade and Renewal Programme • Education and awareness campaigns |
| Mangaung | <ul style="list-style-type: none"> • Develop water balance • Ensure universal metering and measurement of all water use and supply • Zoning of supply schemes |

| Name of Metropolitan Municipality | WC/WDM Programme |
|-----------------------------------|--|
| | <ul style="list-style-type: none"> • Leak detection and repair programme • Pressure management • Repair of visible and reported leaks • Mains replacement / management program • Reticulation/consumer connection replacement/management programme • Cathodic protection of pipelines • Metering • Illegal connection program • Communication and education campaigns |
| Nelson Mandela Bay | <ul style="list-style-type: none"> • Assistance to the Poor (ATTP) leak repairs (repairs to private plumbing of poor households) • Schools leak repairs • Zone metering • Remote sensing • Pressure management • Awareness campaigns • Metering • Leak detection and repairs • NRW support structures • Promoting the use of rainwater tanks |
| City of Tshwane | <ul style="list-style-type: none"> • Pressure management including the implementation of new PRV installations and fitting of smart pressure controllers on existing PRVs. • Metering • Visual leak detection and repair of leaks. • Removal of illegal connections. • Pipe replacement |