

**5th REGIONAL AFRICAN WATER LEAKAGE SUMMIT 2015**  
 25 & 26 August 2015  
 DSEA Valindela Auditorium, Midrand, South Africa

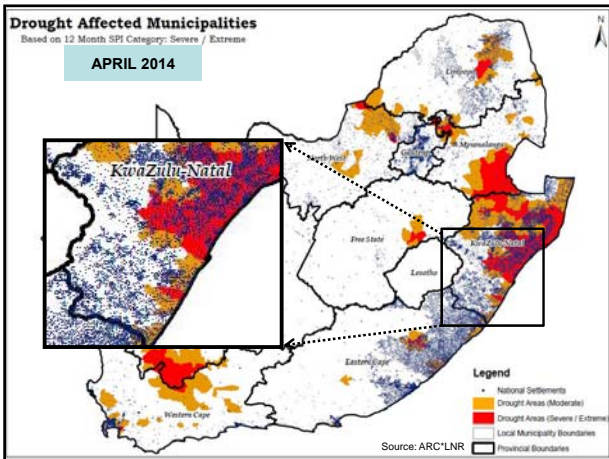
**Tackling the KwaZulu-Natal Drought Case Study : Middle South Coast**

Presented by: Steve Gillham, Umgeni Water

Participating and supporting organisations :

## Presentation Content

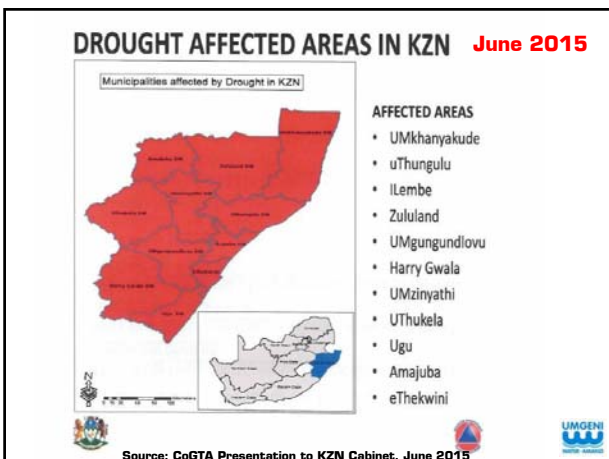
- ▶ KwaZulu-Natal Drought Situation 2014/15
- ▶ Drought Situation in Umgeni Water Area of Operation
- ▶ Drought Interventions
- ▶ Case Study – Middle South Coast



## KZN DROUGHT DECLARATION

A provincial drought declaration was published in **December 2014** in the following **8 District Municipalities:**

- ▶ Ilembe
- ▶ Zululand
- ▶ uThukela
- ▶ uThungulu
- ▶ Harry Gwala
- ▶ uMzinyathi
- ▶ uMkhanyakude
- ▶ Ugu



## GAZETTING OF WATER RESTRICTIONS

84 No. 38924 GOVERNMENT GAZETTE, 3 JULY 2015

DEPARTMENT OF WATER AND SANITATION  
 DEPARTEMENT WATER EN SANITASIE

No. 572 3 July 2015

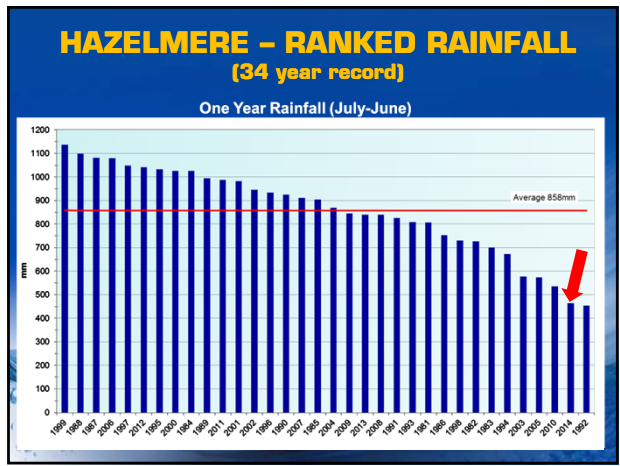
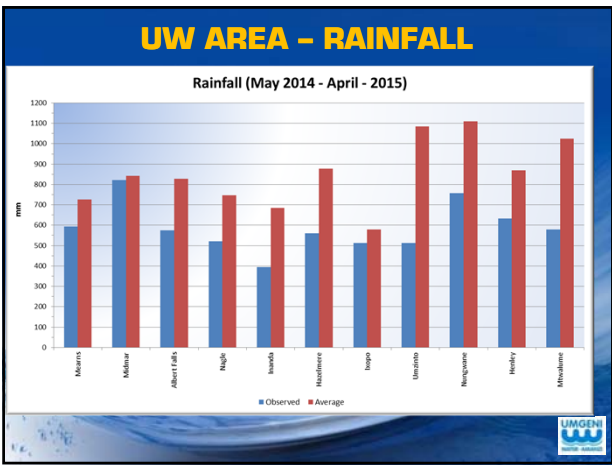
PONGOLA-MZIMKHULU WATER MANAGEMENT AREA – LIMITING THE USE OF WATER IN TERMS OF ITEM 6 OF SCHEDULE 3 OF THE NATIONAL WATER ACT OF 1998 FOR IRRIGATION, DOMESTIC AND URBAN PURPOSES FROM GOEDERTROUW, HAZELMERE, KLIPFONTEIN, HLUHLUWE, LAKE MERTHLEY, UMZINTO, EJ SMITH AND BUFFALO SYSTEMS IN KZN

Hazelmere Dam

- a) 30% restrictions on Domestic and Industrial use
- b) 100% restrictions on irrigation use

Umzinto and EJ Smith Dam

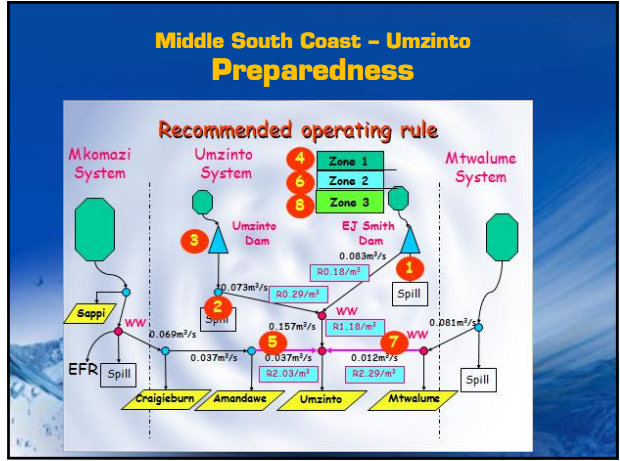
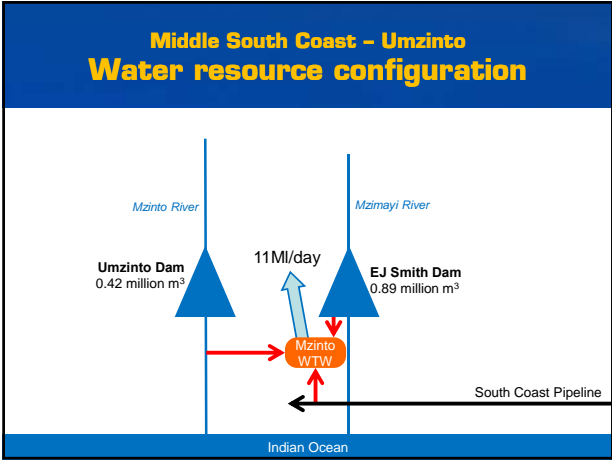
- a) 25% Restriction on domestic water use

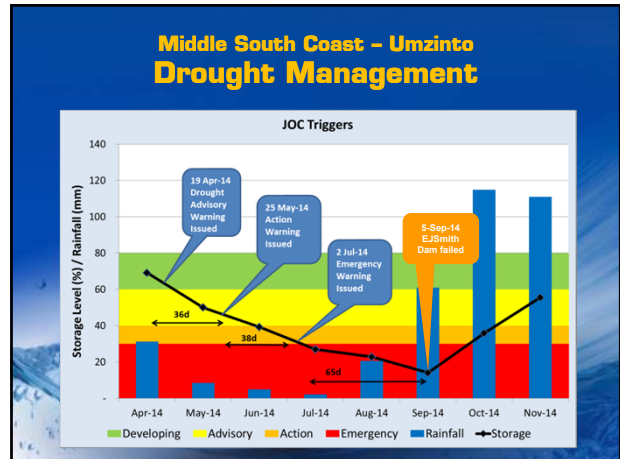
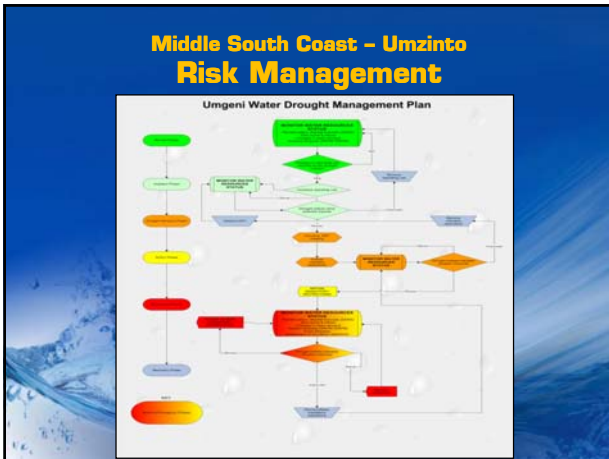


- ### DROUGHT INTERVENTIONS
- ◆ Regular water resource status updates and projections – early warning
  - ◆ Application of Operating Rules to maximise yield
  - ◆ Communication and liaison
  - ◆ Drought Joint Operating Committee (JOC) meetings
    - Roles and responsibilities
  - ◆ Drought Management Plan
  - ◆ Application of drought mitigation initiatives

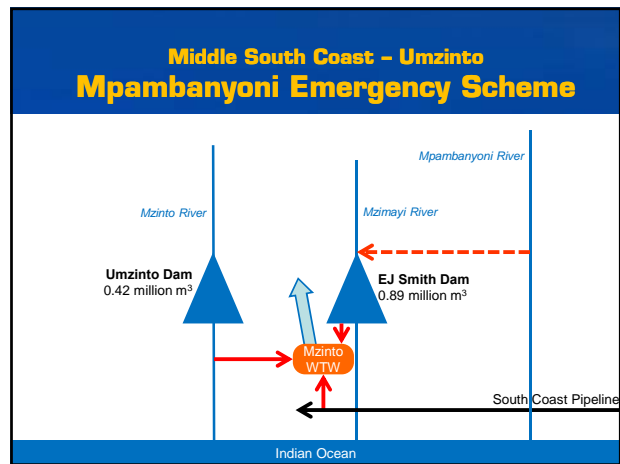
### CASE STUDY

## MIDDLE SOUTH COAST – UMZINTO KWAZULU-NATAL

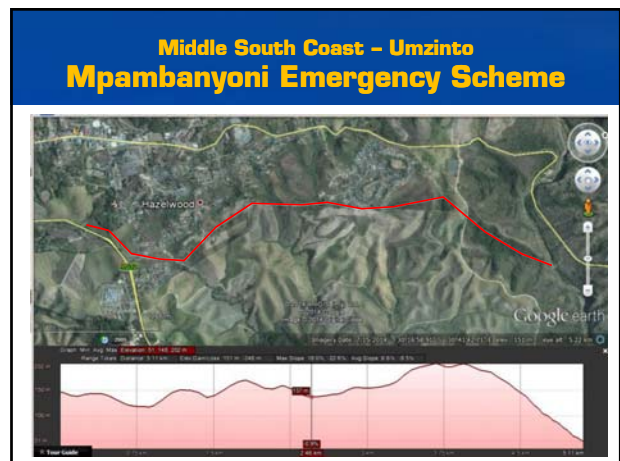




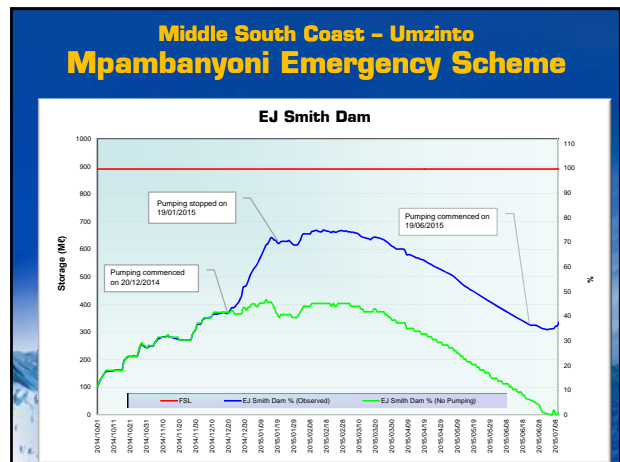
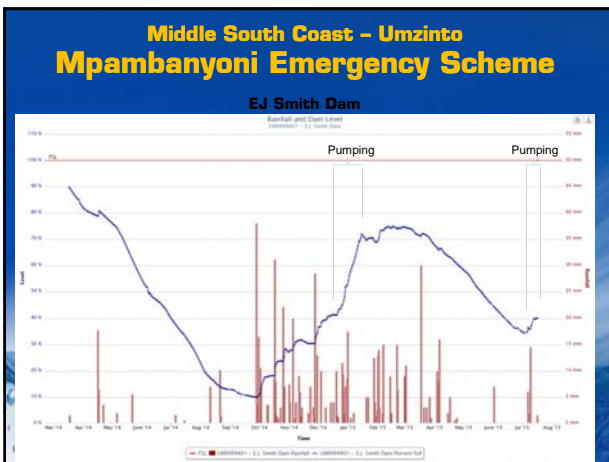
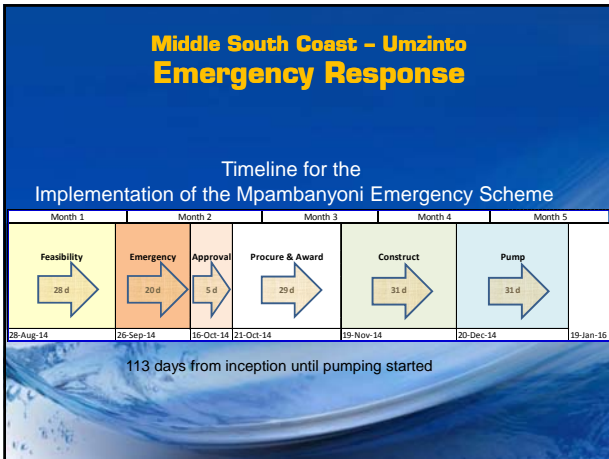
- ### DROUGHT INTERVENTIONS
- Regular water resource status updates and projections
  - Drought Joint Operating Committee (JOC) meetings
  - Communication and liaison – Drought Campaign
  - Imposition of Restrictions (Voluntary / Mandatory)
  - Address water losses
  - Top 10 highest users
  - Shift demands to adjacent systems



- ### Middle South Coast – Umzinto Mpambanyoni Emergency Scheme
- Source:** Mpanbanyoni River/Gauging weir
  - Discharge:** EJ Smith Dam catchment
  - Capacity:** 8MI/day
  - Pipeline length:** 5km
  - Elevation:** 151m
  - Cost:** R 15.5 million







- ## CONCLUSIONS
- 🔥 Drought is already having a severe impact on some parts of KZN – smaller supply systems
  - 🔥 General pleas to save water largely ignored
  - 🔥 Forced restrictions proven to be more effectual
  - 🔥 Time to gazette restrictions too prolonged
  - 🔥 Combination of drought mitigation measures need to be applied
  - 🔥 Insights from this drought need to be retained for future events
  - Appreciation of protecting and conserving water resources
  - Preparedness/plans
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