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Department:

**Rural, Environment and Agricultural
Development**

North West Provincial Government

REPUBLIC OF SOUTH AFRICA



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Development and Implementation of AQMP Lessons learned and Challenges

***PRESENTATION
PRESIDENT HOTEL
28 SEPTEMBER 2015***

***Percy Matlapeng
Ms. Portia Krisjan***



Outline

- Mandate
- Contents of the AQMP
- Objectives of the AQMP
- Challenges of AQMP development
- Possible solutions
- Conclusion
- Contacts



MANDATE

- Constitution of SA, 1996
- National Environmental Management Act, 1998
- National Environmental Management: Air Quality Act, 2004 (NEMAQA)
- National Framework for Air Quality Management
- National Development Plan
- National Strategy for Sustainable Development



Mandate

Section 15: Air Quality Management Plans

- Section 15(1): Each Dept or provincial responsible for preparing an EIP or EMP ... Must include in their plan an AQMP
- Section 15(2): Each municipality must include in its IDP, ... an AQMP



Contents of AQMP

- Air Quality Baseline Report
- Emission Inventory
- Dispersion Modelling
- Gap and issue description
- Problem Analysis
- Intervention Strategy

Objectives of AQMP

An AQMP must:

- Improve air quality;
- Identify and reduce the negative impact on human health and the environment of poor air quality
- To address the effects of emissions from the use of fossil fuels in residential applications
- To address the effects of emissions from industrial sources
- To address the effects of emissions from any point or non-point source or air pollution other those contemplated in subparagraph



Objectives of the AQPM

- To implement the Republic's obligations in respect of international agreements,
- To give effect to best practice in air quality in air quality management



Challenges of AQMP development

- Finance
- Capacity
- Emission Inventory
 - Mining windblown dust fugitives (tailings and open mining areas)
 - Listed activities processes
 - Non Listed activities
 - Fugitive dust emissions emanating from Brick Manufacture and Cement manufacture
 - On-road transport vehicle emissions
 - Agricultural sources (crop related)
 - Biomass burning (veldt fires)
 - Emissions from household fuel burning
 - Waste burning activities (landfill operations & open burning of waste)
- Modelling



Possible Solutions

- Finance
 - IDP/EIP
 - Awareness (Political and Public)
- Capacity
 - »Skills (officials)
- Emissions inventory
 - »Identification
 - »Data collection
 - »Quantifications (Measurements, emission factors/calculations)



Possible Solutions

- Modelling
 - Listed activities
 - Other sources not included
 - Difficult to quantify,
 - Source apportionment
 - Cumulative impact
 - Modelling input files



Conclusion

- Emission factor for South Africa
- Modelling
 - Input files
 - Specific sources per sector (e.g. Vehicle emissions)
- Implementation
 - » Finance, capacity, inter-departmental/municipal coordination
- Lessons learned



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