NATIONAL MERCURY MANAGEMENT STRATEGY Date: 13 August 2019 Mr. BJ Smit Directorate: Land Remediation National Department of Environment, Forestry and Fisheries



Chemicals and Waste Management



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Presentation Outline

- Problem statement
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Problem Statement

- Mercury is regarded as a "priority hazardous substance"
- Exposure to mercury poses a direct health risk
- Phakisa initiative
 - Lack of treatment and disposal capacity of mercury
 - Lack of proper management of mercury waste stockpiles
 - Inadequate funding for mercury contaminated sites
 - Iack of an integrated performance and monitoring programme on mercury management to ensure accountability
 - lack of awareness



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Distribution of global anthropogenic Hg emissions to air from different sectors, 2010



- Artisanal and small-scale gold mining
- Coal combustion
- Non-ferrous metal production (Al, Cu, Pb, Zn)(primary)
- Cement production
- Large-scale gold production
- □ Waste from Hg-containing products

Others



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Xu et al., 2015

Purpose

The main purpose of the National Mercury Management Strategy is to facilitate integration and sustainable management of mercury contaminated sites in South Africa.



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Objectives

- Facilitate integration of awareness, consultation and sustainable remediation of mercury contaminated sites;
- Implement Risk Based Approach on mercury in the country;
- Create a platform to exchange information on best practices on mercury;
- Establish communication framework to eliminate silos and fragmentations among role players.



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Scope

- Develop situational analysis for management of mercury in SA;
- Investigate best mercury management practice taking into account the context of the country;
- Develop inventory for mercury contaminated land;
- Develop sustainable funding model for mercury management and costing of the entire plan;
- Develop integrated awareness strategy for mercury management in the country;



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Scope

- Develop monitoring framework for mercury management;
- Investigate barriers that lead to minimal compliance to mercury management laws;
- Develop cooperative model for working with all the stakeholders;
- Investigate number and type of jobs that will be created;
- Investigate type of support that is required to be provided in the communities affected by mercury contamination;
- Provide recommendations on sustainable mercury management.



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Deliverables

- Detailed project plan and inception report on how to achieve the scope of the work;
- Situational analysis report;
- Detailed report consolidating the outcomes of engagements with stakeholders;
- Database reflecting the details of stakeholders consulted as well as providing proof of engagements with government departments, organs of state, industries, NGO's and other interested parties;
- Inventory for mercury contaminated land;



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Deliverables

- Report on a sustainable funding model for mercury management and costing of the entire plan;
- National Implementation Plan for the National Mercury Management Strategy;
- Monitoring framework for mercury management;
- Present options on the type of support that is required to be provided in the communities affected by mercury contamination;
- Integrated awareness strategy for mercury management in the country.



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Current status

- Developed TOR;
- Advertisement to follow;
- Appointment of service provider.



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References

Xu, J., Bravo, A.G., Lagerkvist, A., Bertilsson, S., Sjöblomb, R. & Kumpiene, J. 2015. Sources and remediation techniques for mercury contaminated soil. *Environment International*, 74:42–53





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