



## **Environmental Impact Assessment (EIA) and Waste Licensing Application for the Proposed Continuous Ashing Activities at Majuba Power Station**

**Pixley ka Seme Local Municipality**

**Focus Group Meeting**

**20 November 2012**



## **Purpose of the Meeting**

- Provide I&AP's with information regarding:
  - The proposed project
  - The EIA process to date
  - How to get involved in the project
  - Findings of the Scoping Study
- Provide I&AP's with the opportunity to raise issues regarding the potential impacts of the project on the environment
- Invite I&APs to register on the project database
- Provide an opportunity for I&AP's to interact with the project team







## Conduct of the Meeting

- Focus on issues at hand
- Equal opportunity
- Cell phones on silent
- Work through the facilitator
- Speak in language of choice



## Role Players

	<b>Lidwala Consulting Engineers (SA) (Pty) Ltd</b> <ul style="list-style-type: none"> <li>• Independent Environmental Assessment Practitioner</li> </ul>
	<b>Imaginative Africa</b> <ul style="list-style-type: none"> <li>• Public Participation Consultant</li> </ul>
	<b>Eskom Holdings SOC Ltd – Generation Division</b> <b>Majuba Power Station</b> <ul style="list-style-type: none"> <li>• Applicant</li> </ul>
	<b>Department of Environmental Affairs</b> <ul style="list-style-type: none"> <li>• Lead Decision-maker for the Environmental Authorization Application</li> </ul>
	<b>Interested and Affected Parties</b> <ul style="list-style-type: none"> <li>• Raise comments and issues regarding the proposed project for inclusion in the relevant documentation</li> </ul>
	<b>Commenting Authorities</b> <ul style="list-style-type: none"> <li>• MDEDET,</li> <li>• DWA</li> <li>• SAHRA</li> <li>• DAFF</li> <li>• DMR, etc..</li> </ul>





## Responsibilities

### **Lidwala Consulting Engineers (SA) (Pty) Ltd (Consultant):**

- Be independent with no vested interest
- Have the necessary qualifications & experience
- Responsible for EIA process, information & reports
- Provide relevant & objective information to the Authorities, the I&APs & the Applicant
- Ensure Public Participation Process (PPP) is undertaken
- Ensure all issues raised are addressed or responded to



## Responsibilities

### **Eskom Holdings SOC Limited (Applicant):**

- Appoint suitable, independent consultants
- Ensure adequate resources are available to conduct an effective, efficient & equitable EIA
- Ensure that the Consultants are provided with all relevant information to undertake the EIA effectively
- Ensure that the Consultant provides all relevant information to the Authorities





## Responsibilities

### Relevant Environmental Authority (National DEA):

- Efficient & expedient in evaluating proposals
- Compliance with regulatory requirements
- Inter-departmental co-operation & consultation
- Consultation with the Applicant & the Consultant
- Evaluation/review & decision-making
- Requiring sufficient detail to make informed decisions



## Responsibilities

### Interested & Affected Parties (I&APs)

- Provide input & comment during various stages of the EIA process
  - Identify issues & alternatives
  - Review of reports
    - Draft Scoping Report (DSR)
    - Draft Environmental Impact Report (DEIR)
    - Waste License Report
- Provide input & comment within specific timeframes





## What does the Project Entail?

Presented by:  
**Tebogo Madisha – Majuba Power Station**



## What does the Project Entail?

- The project entails the continuation of dry ash disposal at Majuba Power Station
- Majuba disposes its ash via conveyors and stackers.
- Extension of drainage canals, access roads and fence installations.
- The extension is envisaged on previously acquired/purchased land (Existing footprint).

### Current challenges:

- Majuba will run out space for the disposal of ash on the existing footprint





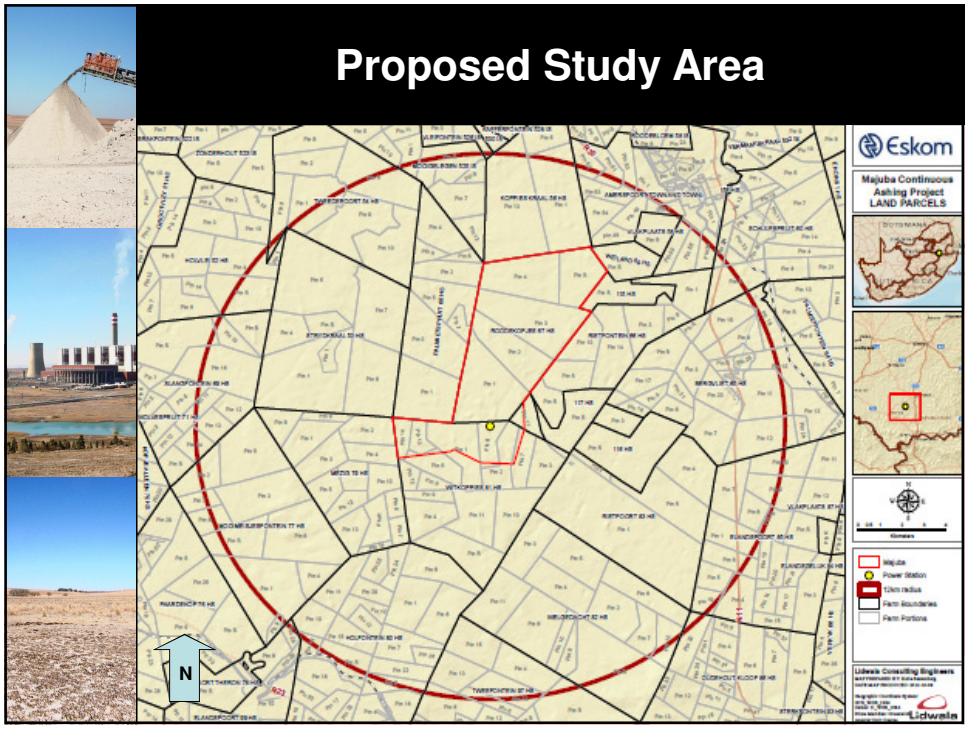
## Specification and Requirements

- Land for continuous ash disposal up to 45 years (remaining life of station).
- Ash disposal capacity of 184 million cubic metres and land of 800 hectares.
- Eskom would like to align its ashing activities with NEMWA's requirements.
- EIA in progress to investigate potential alternatives within the vicinity of Majuba Power Station.



## Majuba's Existing Ash Disposal Facility





# Environmental Studies

**Presented by:  
Ashlea Strong**

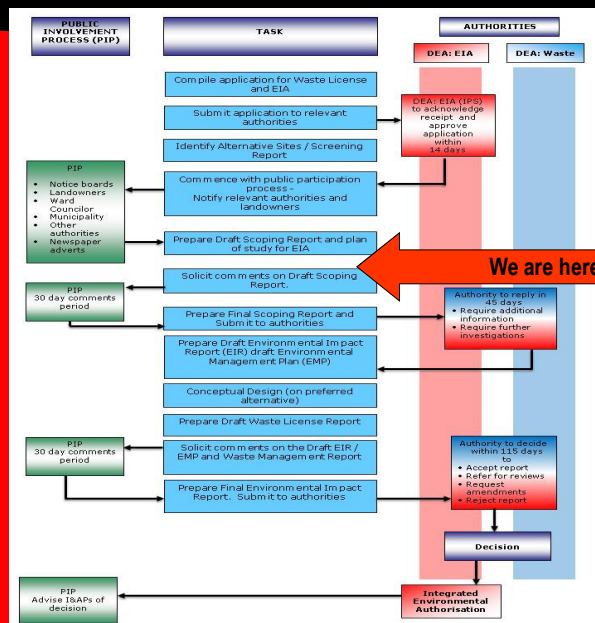


# Why Environmental Studies?

- Legislative tool used to ensure that potential impacts are identified, assessed and mitigated as required
- Integrated Application:
  - National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2010;
    - GN R544 – Listing Notice 1: 11 Listed Activities
    - GN R545 – Listing Notice 2: 3 Listed Activities
    - GN R546 – Listing Notice 3: 4 Listed Activities
  - National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) and Government Notice 718 of 2009
    - Category A – 1 Listed Activity
    - Category B - 2 Listed Activities



# The EIA Process







## Envisaged Timeline

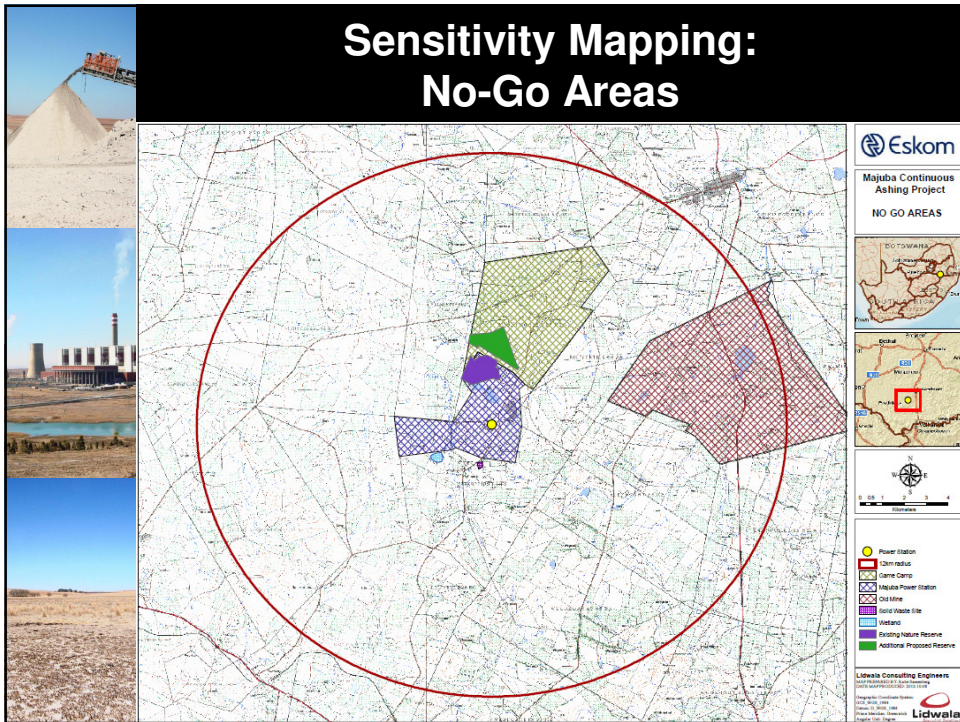
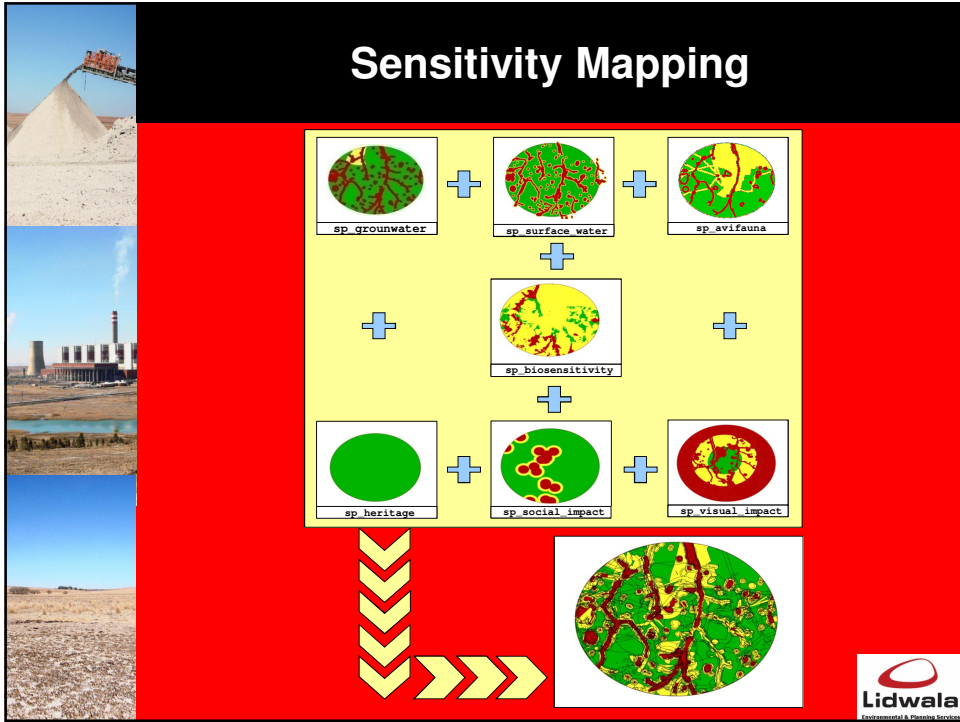
Phase / Task	Envisaged Date
Application form submission	August 2012
Screening / Scoping Phase	August 2012 – January 2013
EIA Phase	January – June 2013
Final Documents to DEA	June 2013
Authorisation and License	August 2013



## Sensitivity Mapping

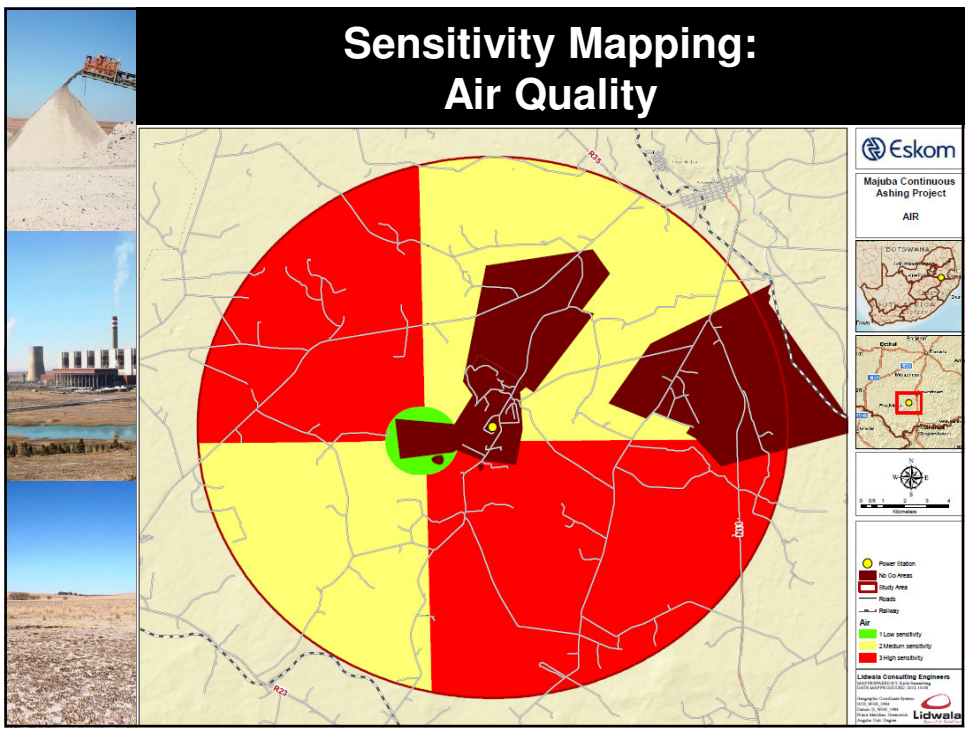
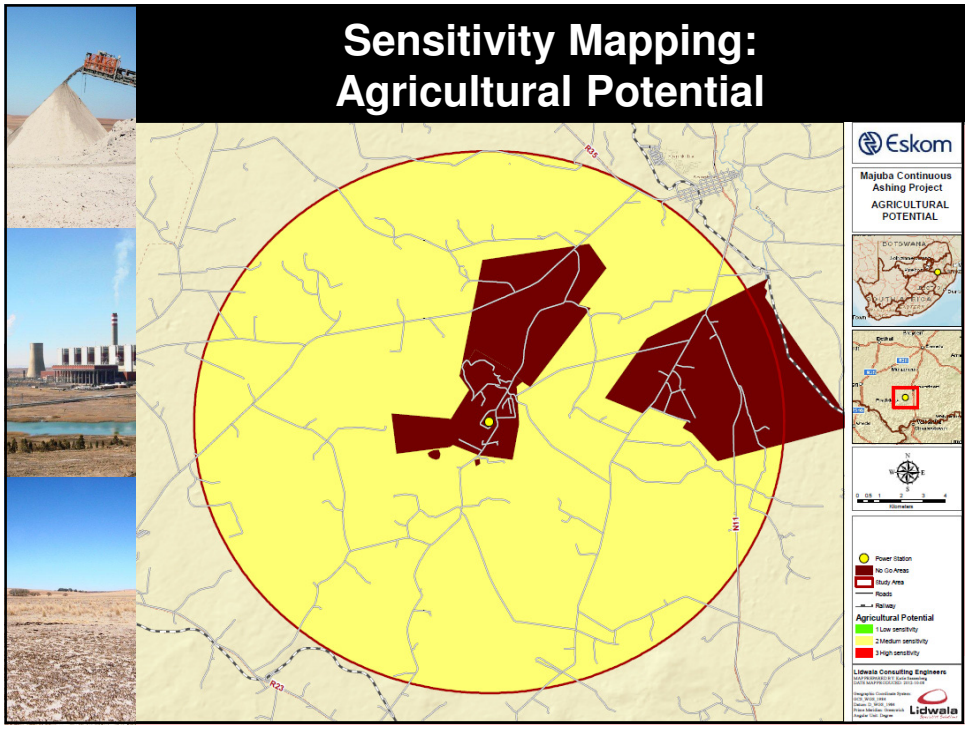
- Eskom have already identified an area for the proposed continuous ashing
- However - in order to allow for a robust environmental process all land within a radius of 12 km was assessed in order to:
  - Identify potential alternatives sites
  - Identify sensitive environmental aspects that may limit the suitability of all identified alternative sites

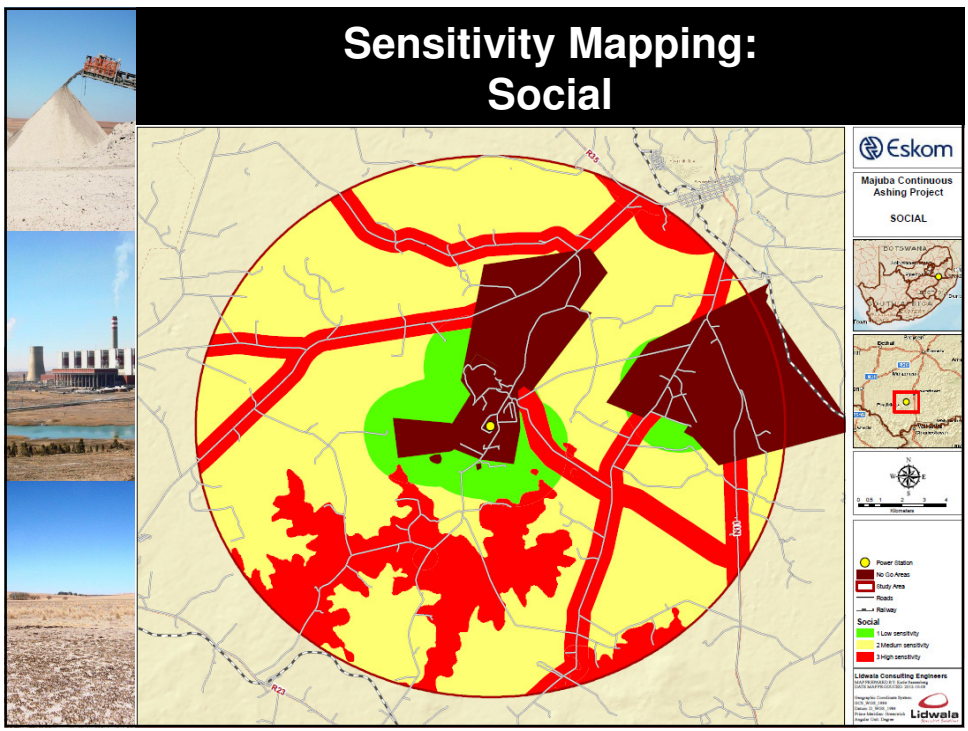
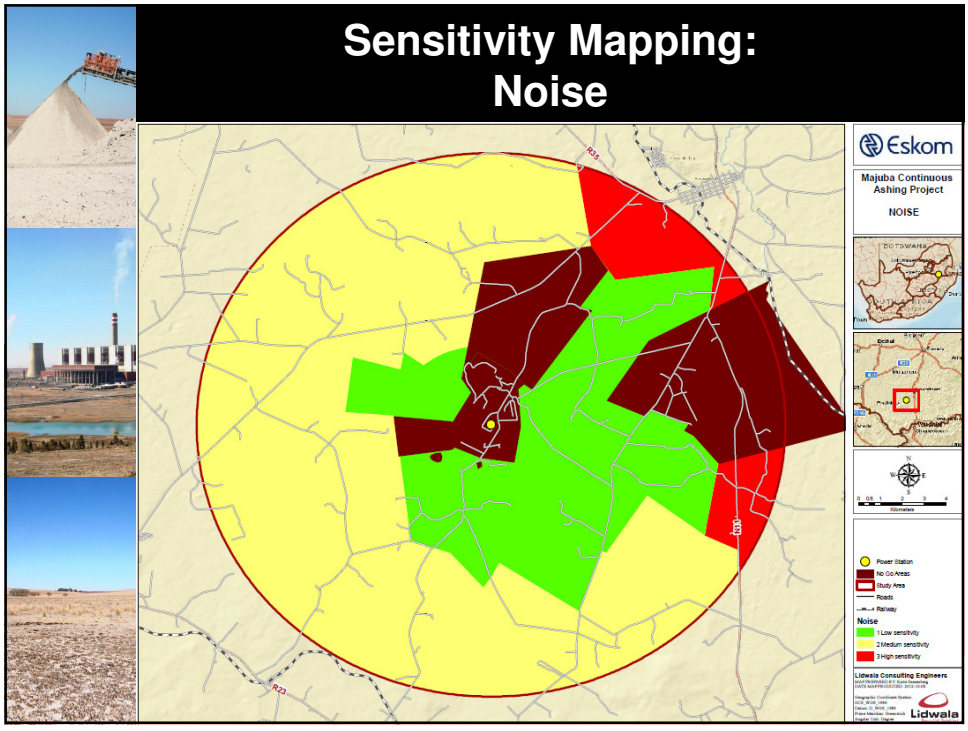




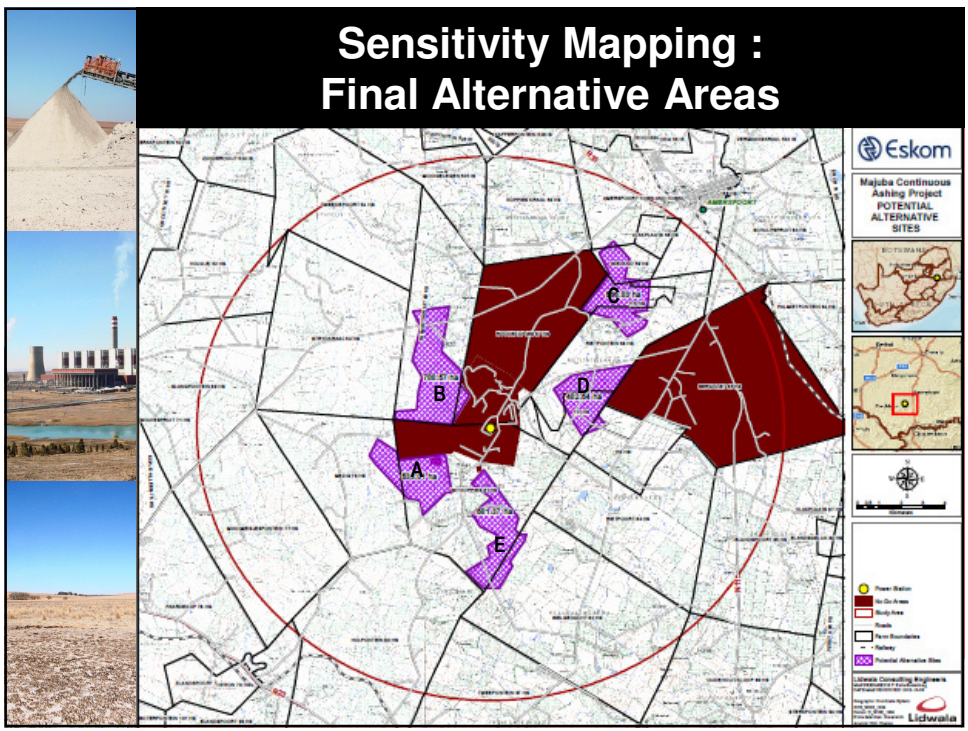
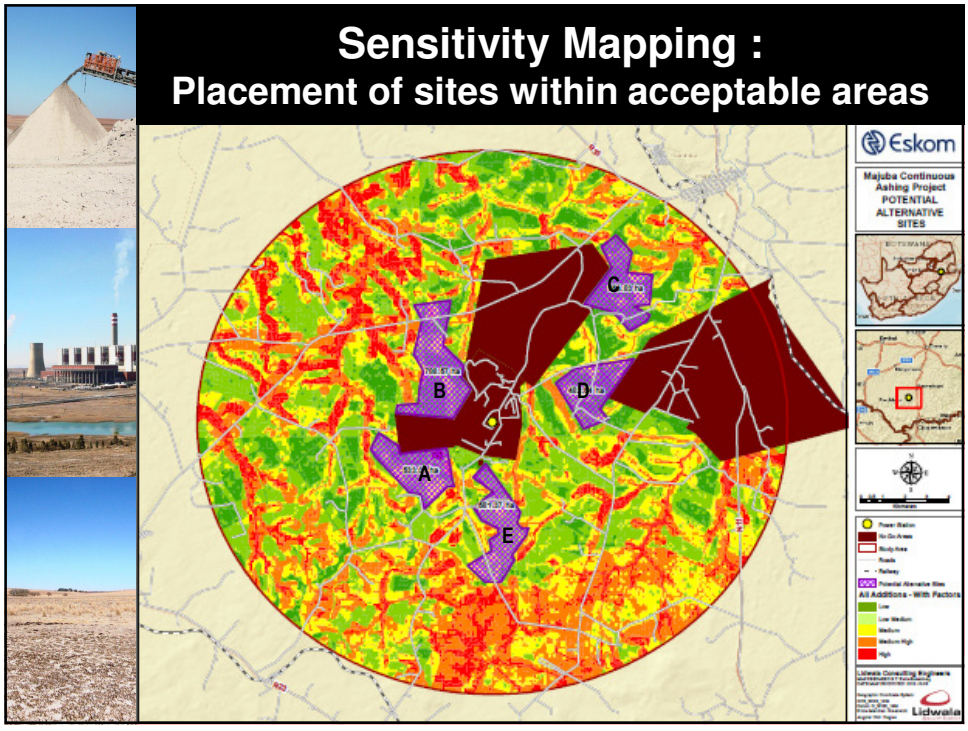
















## Potential Impacts: Biophysical

- **Geology**
  - Impacts related to the construction-related earthworks
  - Impacts related to the pollution in case of spillage/leakage of hydrocarbon and other hazardous material from storage facilities
- **Geotechnical issues**
  - Phase 1 geotechnical study will be undertaken in the EIA phase.
- **Topography**
  - Change to drainage patterns due to construction-related earthworks and additional stormwater drainage patterns.



## Potential Impacts: Biophysical

- **Land Capability / Agricultural Potential**
  - Pollution of soil due to handling, use and storage of hazardous substances during construction and operation.
  - The loss of available top soil.
  - Key variables that determine the land capability of the study area such as soil fertility reduced and disturbed due to the potential activities related to the ash disposal facility.
  - The loss of viable agricultural land.
- **Avifauna**
  - Destruction of habitat and disturbance of birds due to Ash Disposal Facility
  - Impacts due to associated Infrastructure such as powerlines e.g. Electrocutations, Collisions etc..





## Potential Impacts: Biophysical

- **Surface Water**

- Impacts on surface water quality;
- Impacts on hydrology;
- Impacts related to erosion and sedimentation;
- Impacts on aquatic biota; and
- Impacts on aquatic ecosystem services.

- **Groundwater**

- Contamination of ground water due to hydrocarbon spillage and seepage into groundwater reserves, affecting groundwater quality.
- Further construction of infrastructure and compaction of the area will further contribute to reduced water infiltration rates to replenish groundwater aquifers.



## Potential Impacts: Biophysical

- **Biodiversity**

- Direct impacts on threatened flora and fauna species;
- Direct impacts on protected flora species;
- Direct impacts on common fauna species/ faunal assemblages (including migration patterns, corridors, etc.);
- Human - Animal conflicts;
- Loss or degradation of natural vegetation/ pristine habitat (including ecosystem functioning);
- Loss/ degradation of surrounding habitat;
- Impacts on SA's conservation obligations & targets;
- Increase in local and regional fragmentation/ isolation of habitat; and
- Increase in environmental degradation, pollution (air, soils, surface water).





## Potential Impacts: Social

- **Air Quality**
  - Increase in dust generating activities during construction and operation including exceedances of PM10 concentrations and exceedances of dustfall rates.
- **Visual**
  - Impact on the current visual landscape.
  - Impact on sensitive receptors,
- **Heritage**
  - identify the potential heritage sites within the study area
  - identify any impacts (if any) that may occur on these sites as a result of the continuous ashing project
- **Socio-Economic**
  - Perceptions and fears associated with the proposed project; and
  - Local, site-specific issues.



## Conclusions and Recommendations

- Five Alternative Areas and the No-Go Alternative to be investigated in the EIA Phase
- Due to the fact that none of the alternative areas are big enough to stand alone the EIA will investigate which combination of 2 sites are most feasible for use
- Investigate alternatives for relocation / establishment of linear infrastructure (where required)
- Undertake detailed specialist studies
- Compile Environmental Impact Assessment Report
- Waste License Report to be compiled
- Geotechnical studies to be undertaken along with site survey
- Develop Conceptual Design





# Public Participation

Presented by:  
Bongi Mhlanga




# What is Public Participation?

- Public participation is a joint effort between:
  - Stakeholders
  - The proponent
  - Technical Specialists
  - Decision-makers
- Work together to produce better decisions
- Aim: To inform a wide range of I&APs
- Tool: Allows the public to exchange information and express their views and concerns
- Scoping: Facilitates the identification of issues and concerns early in the EIA process
- All contributions from I&APs will be fully documented, evaluated and responded to in the EIA





## Public Participation Process to Date

- Identification of Stakeholders or I&APs
- Notification and Advertisements
  - Project advertised in 2 newspapers
    - The Record
    - Cosmos News
- Background Information Document
  - Distributed to all identified I&APs
  - Placed in local public libraries and municipalities
- Meetings:
  - Focus Group meetings, consultations, public meetings and one-on-one interactions
- **You can still get involved!! How?**



## Discussion

**Facilitator:  
Nicolene Venter**





## Way Forward

- Compilation and distribution of minutes
- Inclusion of I&AP comments in Final Environmental Scoping Report (FESR)
- Submission of FESR report to DEA and Provincial Environmental Authorities
- Release of FESR into the public domain
- Authority review
- DEA comments and decision on FESR and POS for EIA
- Proceed with EIA phase if FESR is Accepted



## Contact Details

### PUBLIC PARTICIPATION OFFICE CONTACT DETAILS

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