

# 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

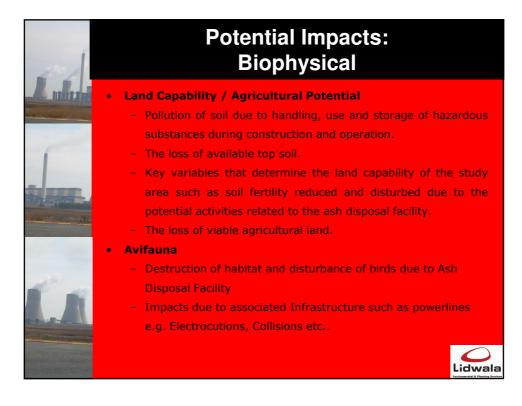
## **Geotechnical issues**

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.



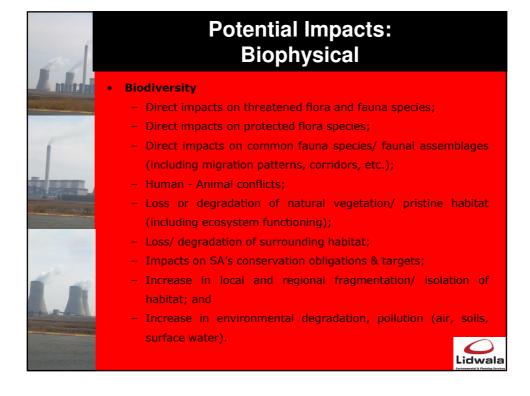


# Potential Impacts: Biophysical

### 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.
- 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.





## 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

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- Local, site-specific issues.

