



PROJECTS

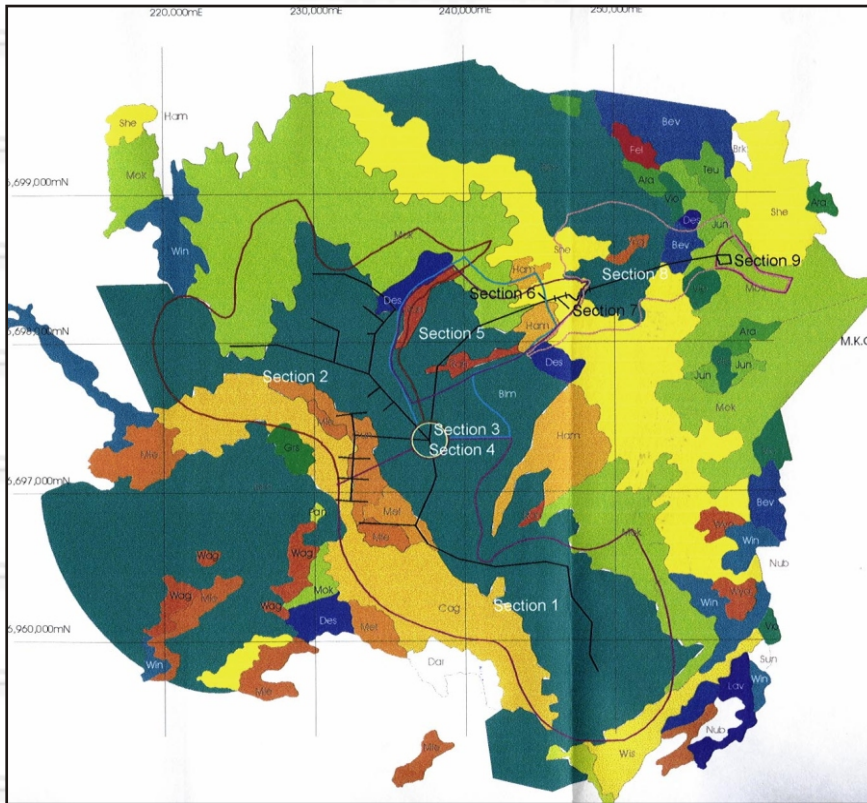
RISK ASSESSMENT

Risk 1

WMC RESOURCES

Risk Assessment, Operation of Hypersaline Borefield, Mt Keith Operations, WA

A semi-quantitative risk assessment was undertaken of the abstraction and conveyance of hyper-saline (Total Dissolved Solids > 35,000mg/L) groundwater for process supply at the Mt Keith Nickel Mine in Western Australia.



Historically, a number of spillages have occurred resulting in the release of hyper-saline water to the surface environment.

A review was undertaken of existing data regarding groundwater quality, flow rates and incidences of spillages from a 32km long above-ground pipeline.

The risk assessment examined the following elements:

- Identification and ranking of potential receptors
- Identification of likely modes and frequency of failure of the pipeline
- Assessment of apparent risk from failure
- Investigation of options for risk management
- Cost analysis of options
- Detailed appraisal of selected management strategies.

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