

SUMMARY OF THE PROPOSED MINING OPERATION.

1. List of activities applied for

All mining related activities for the recovering of diamonds by means of trenching:

- Excavations – NEMA GNR 983 Listed 1 Activity 21
- Stock piles – NEMA GNR 983 Listed 1 Activity 21
- Office site – NEMA GNR 983 Listed 1 Activity 21
- Plant site – NEMA GNR 983 Listed 1 Activity 21
- Ablution facility – NEMA GNR 983 Listed 1 Activity 21
- Vehicle storage – NEMA GNR 983 Listed 1 Activity 21
- Chemical storage – NEMA GNR 983 Listed 1 Activity 21
- Diesel storage – NEMA GNR 983 Listed 1 Activity 21
- Domestic waste facility – NEMA GNR 983 Listed 1 Activity 21
- Access road – NEMA GNR 983 Listed 1 Activity 21
- Mine roads – NEMA GNR 983 Listed 1 Activity 21

2. Scale and extent of activities

- Excavations – ± 0.6 ha
- Stock piles – ± 0.04 ha
- Office site – ± 0.0025 ha
- Plant site – ± 0.0025 ha
- Ablution facility – ± 0.0008 ha
- Vehicle storage – ± 0.0008 ha
- Chemical storage – ± 0.0025 ha
- Diesel storage – ± 0.0008 ha
- Domestic waste facility – ± 0.0008 ha
- Access road – ± 0.4 ha
- Mine roads – -

3. Typical impacts of activities

- Vegetation loss – a total area of 6 400 m² will be cleared for mining related structures (unrehabilitated dumps, and stock piles) and 250 m² for plant, and office site establishment. The impact can be regarded as low to medium, with no long term effects. If rehabilitation of these areas is done correctly full recovery of the environment is possible.
- Noise disturbance – during excavation, hauling and mineral processing activities is noise generated by the machinery. Again the noise will be much localized and should have no impact on the surrounding environment.

- Air quality loss – dust will be generated during the excavating and hauling activities. The dust generated may have an impact on the air quality, but with localized effects and should not have an effect on the surrounding environment. For this the impact can be regarded as low.
- Soil pollution – chemical soil pollution is always a possibility during mechanical mining operations. Working machinery and storage facilities bears a risk for chemical spillage and the impact thereof may be very severe.
- Soil compaction – heavy vehicles driving off-road bears a great risk to the trampling of vegetation and the compaction of the soil. The plant site area will also become compacted during the duration of the mine. If not rehabilitated vegetation re-growth is unforeseen and poses a medium risk to the environment.
- Littering pollution – littering during the mining activities can happen and may have a low to medium impact on the environment depending on the type of littering and the remediation thereof.
- Water pollution – chemical contaminated water from the mineral processing plant and storage facilities bears a risk to the environment. This impact should always be regarded as high and proper mitigation and/or remediation measures should be in place.

4. Duration of each activity

All of the listed activities will be occurring concurrently and the time frame applied for at the Department of Mineral Resources is 2 years which is the duration of the permit.

5. Details regarding intended operation

Mine permit activities through re-processing of un-rehabilitated mine dumps using the following methodology to ensure cost effective mining operations as well as successful rehabilitation:

- The material removed from the dump is transported to the conveyor belt to be hand sorted and the waste materials removed
- During mineral processing the gravel is classed in different sizes through dry vibration screening
- The different size gravels obtained in stockpiled for loading and transportation

Rehabilitation:

- Waste materials removed during the mineral processing will be discarded within an old open excavation.