Moonstone Mining (PTY) LTD (2019/207467/07)

# **Background Information Document**

Public participation process

PUBLIC PARTICIPATION PROCESS FOR A PROSPECTING RIGHT FOR DIAMONDS (ALLUVIAL); DIAMONDS (IN KIMBERLITES); DIAMONDS (GENERAL) IN TERMS OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT 28 OF 2002), THE NATIONAL ENVIROMENTAL MANAGEMENT ACT, 1998 (ACT 107 OF 1998); THE ENVIRONMENTAL IMPACT ASSESSMENT REGULATIONS 2014; THE NATIONAL ENVIRONMENTAL MANAGEMENT: WASTE ACT, 2008 (ACT NO. 59 OF 2008) AND THE NATIONAL WATER ACT 1998, (ACT 36 OF 1998).

NC30/5/1/1/2/12399PR

FARM 508, REMAINING EXTENT, PORTION 1 AND PORTION 3 OF THE FARM 509, REMAINING EXTENT AND PORTION 2 OF THE FARM 510, PORTION 1 (DROOGEHART) OF THE FARM 10, REMAINING EXTENT OF THE FARM 11, REMAINING EXTENT OF THE FARM 12, PORTION 1 (WOODVILLE) OF THE FARM 12, FARM 13, PORTION 1 (VLAKFONTEIN) OF THE FARM 14, AND POTION 1 (LANGLAAGTE) OF THE FARM 15, HERBERT AND HAY

# IN EXTENT: 20 136.5446 HA

Compiled by Ms. R.H. Oosthuizen Wadala Mining and Consulting (Pty) Ltd

# **BACKGROUND INFORMATION DOCUMENT**

#### 1. INTRODUCTION

We must inform you that Moonstone Mining (Pty) Ltd ("The applicant") has applied for a Prospecting Right on Farm 508, Remaining Extent, Portion 1 and Portion 3 of the Farm 509, Remaining Extent and Portion 2 of the Farm 510, Portion 1 (Droogehart) of the Farm 10, Remaining Extent of the Farm 11, Remaining Extent of the Farm 12, Portion 1 (Woodville) of the Farm 12, Farm 13, Portion 1 (Vlakfontein) of the farm 14, and Portion 1 (Langlaagte) of the Farm 15 within the Administrative District of Hay & Herbert, Northern Cape (20 136.5446 hectares).

The application was submitted to the Regional Manager, Department of Mineral Resources ("DMR") situated at 41 Schmidtsdrift Road, Telkom Building, 8301 with contact number 053 – 80 71700 on 08 July 2019 which was accepted on 08 January 2020.

#### 2. PURPOSE OF THE BACKGROUND INFORMATION DOCUMENT

The purpose of this document is:

- To notify potential stakeholders of the application for a Prospecting Right for diamonds (alluvial); diamonds (in kimberlites); diamonds (general) which was submitted to the Department of Mineral Resources (DMR) with Reference NC30/5/1/1/2/12399PR
- Provide background information regarding the proposed Prospecting Right application for Moonstone Mining (Pty) Ltd.
- Invite potential stakeholders to register themselves as interested and affected parties and to raise issues of importance, share their input, comments and or concerns which will be incorporated into the Environmental Management Programme.
- To inform the Affected and Interested Parties of the requirements in terms of all Governing Legislation applicable to this process.

Moonstone Mining (Pty) Ltd seeks to gather comments, suggestions, issues and concerns from all stakeholders.

## 3. A BRIEF OVERVIEW

Moonstone Mining (Pty) Ltd ("The applicant") has applied for a Prospecting Right on 08 July 2019 on the above mentioned farms situated in the Magisterial District of Hay and Herbert, Northern Cape Province to mine for diamonds (alluvial); diamonds (in kimberlites); diamonds (general).

The properties are about 150 km west of Kimberley. The proposed prospecting area falls within the ZF Mgcawu District Municipality and Kgatelopele local Municipality located at Danielskuil town, situated in Hay & Herbert District, Northern Cape, South Africa.

# 3.1 Proposed activity description

Prospecting activities described in the Prospecting Work Programme ("PWP") are designed for determining the gravel resource potential of the proposed application area. The prospecting activities will be a combination of both non-invasive and invasive methods. A suitable level of feasibility study (technical and economic evaluation) will also be undertaken.

The initial prospecting activities will be non-invasive and restricted to a desktop study which included a literature survey, plus aerial photograph and satellite image interpretation, and ground validation of targets in the first year. Subsequent phases will be of the invasive-type, typically pitting, or trenching aimed at recovering suitably representative samples to determine grade and quality.

Bulk sample test work will be undertaken to test the grade and quality and ultimately the economic viability of the potential deposit.

A standard phased approach to all prospecting activities will be implemented. Each prospecting activity will be undertaken on a scheduled timeline, with some activities being run concurrently, while others sequentially. Specific milestones will be determined and used as a basis for decisions regarding further activities related to the Prospecting Work Programme. The total duration of the prospecting and evaluation activities is planned for five (5) years.

## **Non-Invasive Activities**

## PHASE 1

# Review of Past Exploration Results

In order to direct the exploration programme in an efficient manner, there will be a review of all information and data gathered during previous exploration. A site investigation of the target areas will be undertaken to identify infrastructure and determine any potential problems that may need to be addressed.

## **Imagery Analysis & Geological Mapping**

High-resolution satellite images will be studied and used to geologically map the application area. Contacts between various lithologies will be mapped and specific attention will be given to delineate and define areas underlain by alluvial gravels.

#### Invasive Activities PHASE 2

RC-drilling – Drilling is done in phases, over anomalous target areas, using reconnaissance lines or a grid of 200m X 200m or 100m X 50m depending on the level of confidence in the targets and the level of information required. The holes will be approximately 5 metres deep depending on local depth to bedrock (It is envisaged that at least 300 holes will be drilled). If initial drilling proves that only Rooikoppie gravels exist on the property and gravels only go 1m or less deep, drilling will cease and pitting will continue.

# PHASE 3

**Invasive Prospecting Pits** 

Invasive Prospecting Pits will be positioned also on a grid of 200m X 200m or 100m X 50 m on positive areas.

## PHASE 4

**Bulk Sampling** 

## PHASE 5

Analytical Desktop Study

The project geologist monitors the programme, consolidates and processes the data and amends the programme depending on the results. This is a continuous process throughout the programme and continues even when no prospecting is done on the ground.

Each physical phase of prospecting is followed by desktop studies involving interpretation and modelling of all data gathered. These studies will determine the manner in which the work programme is to proceed in terms of activity, quantity, resources, expenditure and duration.

A GIS based database will be constructed capturing all exploration data.

#### 3.2 Rehabilitation

Rehabilitation of drill-sites and bulk sampling sites will be done concurrently as each hole or trench is completed. Access road rehabilitation is carried out when all prospecting phases are completed at the end of the prospecting activities. Rehabilitated sites will be monitored after work has been completed to ensure vegetation growth re-occurs.

On completion of the prospecting operation, the various surfaces, including the access road, will finally be rehabilitated as follows: Any compacted area will be ripped to a depth of 300mm, where possible, the topsoil or growth medium returned and landscaped.

All equipment and other items used during the operational period will be removed from the site.

• Rehabilitation of the secured storage areas

On completion of the prospecting operation, the above areas will be cleared of any remaining contaminated soil which will be placed in acceptable containers and removed with the industrial waste to a recognized disposing facility or by a waste removal company.

All buildings, structures or objects in the secured storage areas shall be dealt with in accordance with regulation 44 of the Minerals and Petroleum Resources Development Act, 2002.

The surface will be ripped or ploughed to a depth of at least 300 mm, where possible, and the topsoil, previously stored adjacent the site, distributed evenly to its original depth over the whole area. The area will then be fertilized if necessary (based on a soil analysis).

The site will be seeded with a vegetation seed mix adapted to reflect the local indigenous flora if necessary.

Any other disturbed areas will be rehabilitated as described under the relevant activities.

o Submission of information

Reports on rehabilitation and monitoring will be submitted annually to the Department of Mineral Resources - Kimberley, as described in the NEMA regulations published 20 November 2015.

 <u>Maintenance (Aftercare)</u>
 Maintenance after closure will mainly concern the regular inspection and monitoring and/or completion of the re-vegetation programme. The aim of the Environmental Management Programme that will be submitted with this application is for rehabilitation to be stable and self-sufficient, so that the least possible aftercare is required.

The aim with the closure of the prospecting operation will be to create an acceptable post-mine environment and land-use.

- After-effects following closure
  - Acid mine drainage
     No potential for bad quality leachate or acid mine drainage development exist after mine closure.
  - Long term impact on ground water.
     No after effect on the groundwater yield or quality is expected.
  - Long-term stability of rehabilitated land
     One of the main aims of any rehabilitated ground will be to obtain a selfsustaining and stable end result. The drill holes and bulk sampling sites will be closed as prescribed and will have long term stability.

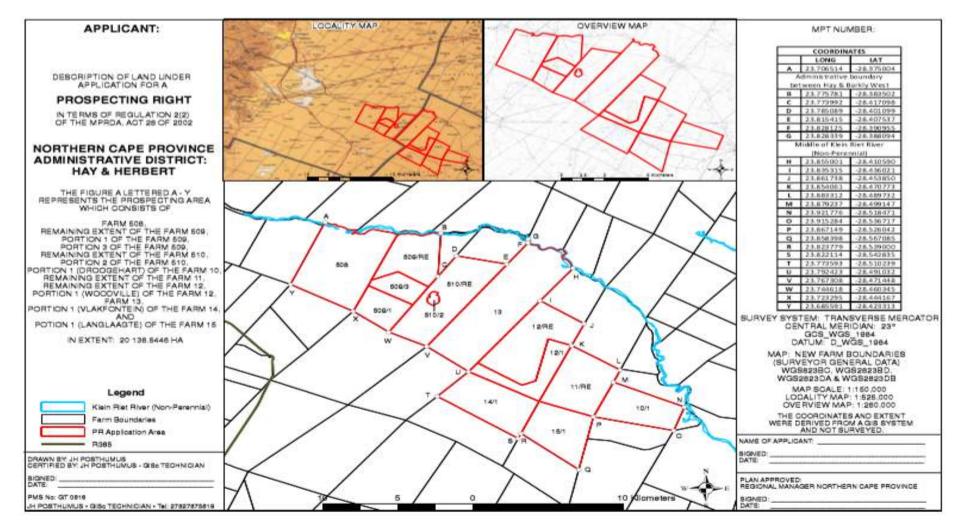


Figure 2: Farm 508, Remaining Extent, Portion 1 and Portion 3 of the Farm 509, Remaining Extent and Portion 2 of the Farm 510, Portion 1 (Droogehart) of the Farm 10, Remaining Extent of the Farm 11, Remaining Extent of the Farm 12, Portion 1 (Woodville) of the Farm 12, Farm 13, Portion 1 (Vlakfontein) of the farm 14, and Portion 1 (Langlaagte) of the Farm 15 within the Administrative District of Hay & Herbert, Northern Cape (20 136.5446 hectares) locality indicated in red.

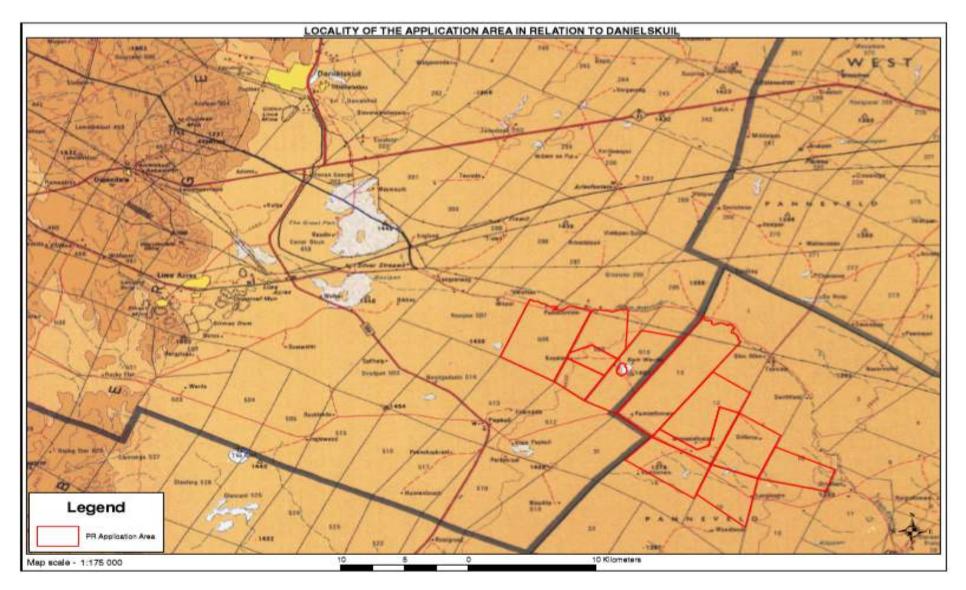


Figure 3. Locality of the farms under application in Herbert and Hay

#### 3.3 Foreseen Environmental Impacts

#### 3.3.1 Air quality deterioration

#### Source of the impact

Sources of atmospheric emissions associated with the prospecting operations are likely to include fugitive dust from drilling, bulk sampling and vehicle entrainment of gravel roads.

#### Description of the impact

During the construction and operation of the prospecting operation dust can be generated through the use of the drill rig, yellow gear and access roads. Air pollution through vehicle entrainment is expected to be negligible due to the small scale of the project and dust suppression measures that will be implemented by the mine. Air pollution from exhaust fumes from the drill rig and yellow gear.

#### 3.3.2 Soil pollution

#### Source of the impact

Spillage of hazardous material; runoff.

## Description of the impact

During the prospecting, there is a possibility that equipment might leak oil, thus causing surface spillages. The hydrocarbon soil contamination will render the soil unusable unless they are decontaminated. The storage of fuels on site might have an impact on soil if not properly monitored and maintained to avoid leakages. Then there is the potential that contaminated soil can be carried through runoff to contaminate water resources and soil stockpiled for rehabilitation. Soil pollution is therefore possible, but through mitigation it can be minimised.

## 3.3.3 Loss of soil fertility

## Source of the impact

During the removal of topsoil; stockpiling.

#### Description of the impact

Improper stockpiling and soil compaction can result in soil sterilisation. Leaching can also occur, resulting in the loss of nutrients.

# 3.3.4 Soil erosion

#### Source of the impact

Establishment of the drill rig on drill sites; topsoil removal; trenches and potential runoff.

## Description of the impact

The establishment of the drill rig, trenches and facilities in the prospecting area can result in loss of soil due to erosion. Vegetation will be stripped in preparation for placement of the drill rig and trenches although very limited, and therefore the areas will be bare and susceptible to erosion.

The topsoil that is stripped and stockpiled on surrounding areas can be eroded by wind and rain. The soil will be carried away during runoff. The cleared areas will be rehabilitated, but full restoration of soils might only occur over a number of months, subsequent to the re-establishment of vegetation.

## 3.3.5 Broad-scale ecological processes

#### Source of the impact

The construction of roads (tracks), the drill rig on various drill sites, trenches as well as other necessary infrastructure; and the clearing of vegetation for prospecting.

#### Description of the impact

Transformation of intact habitat on a cumulative basis would contribute to the fragmentation of the landscape and would potentially disrupt the connectivity of the landscape for fauna and flora and impair their ability to respond to environmental fluctuations. Due to the small size of the operation in the area, this impact should be negligible due to the small scale of the project.

## 3.3.6 Changes to surface topography

#### Source of the impact

Development of infrastructure, trenches and drill rig.

#### Description of the impact

The infrastructure, trenches and drill rig will alter the topography by adding features to the landscape. Topsoil removal, trenches and drill holes will disturb the natural topography.

## 3.3.7 Visual impacts

## Source of the impact

The construction of Prospecting infrastructure, trenches, drilling and dust.

## Description of the impact

Visual impact of the prospecting infrastructure, trenches, drilling and visibility of dust.

## 3.3.8 Traffic

#### Source of the impact

The amount of vehicles will increase with the prospecting in the area.

#### Description of the impact

Potential negative impacts on traffic safety and deterioration of the existing road networks.

#### 3.3.9 Heritage resources

#### Source of the impact

The prospecting operations can prospect through or destroy sites of cultural and heritage importance

#### Description of the impact

The deterioration or destruction of sites of cultural and heritage importance.

#### 3.3.10 Socio-economic

## Source of the impact

The prospecting operation can create various job opportunities for local people. The mine can also destroy the land capability and land use while prospecting.

#### Description of the impact

Loss of potential for the area; influx of workers to the area increases health risks and loitering (resulting in lack of security and safety); negative impact of employment loss during closure.

## 3.3.11 Interested and affected parties

## Source of the impact

The setting up of a Prospecting operation for diamonds (alluvial); diamonds (in kimberlites); diamonds (general) on Prospecting Right on Farm 508, Remaining Extent, Portion 1 and Portion 3 of the Farm 509, Remaining Extent and Portion 2 of the Farm 510, Portion 1 (Droogehart) of the Farm 10, Remaining Extent of the Farm 11, Remaining Extent of the Farm 12, Portion 1 (Woodville) of the Farm 12, Farm 13, Portion 1 (Vlakfontein) of the farm 14, and Portion 1 (Langlaagte) of the Farm 15 within the Administrative District of Hay & Herbert, Northern Cape (20 136.5446 hectares).

#### Description of the impact

Loss of trust and a good standing relationship between the IAPs and the prospecting company.

#### 3.3.12 Land capability

#### Source of the impact

Diamonds (alluvial); diamonds (in kimberlites); diamonds (general) prospecting operation.

#### Description of the impact

Loss of land capability through topsoil removal, disturbances and loss of soil fertility if the prospecting operation continues to bulk sampling.

#### 3.3.13 Land use

#### Source of the impact

Diamonds (alluvial); diamonds (in kimberlites); diamonds (general) prospecting operation.

#### Description of the impact

Loss of land use due to poor placement of drilling infrastructure and ineffective rehabilitation.

#### 3.3.14 Ground water

#### Source of the impact

Potential chemical spills if the prospecting operation continues to bulk sampling. Equipment servicing– Potential diesel and lubricant spills. Equipment parking area – Potential diesel and lubricant spills.

#### Description of the impact

Possible Pollution of underground water sources. Construction of measures to prevent seepage into the groundwater by biological and engineering means. Implementation of the necessary management programs to ensure the integrity of ground water resources.

## 3.3.15 Surface water

#### Source of the impact

Potential chemical spills if the prospecting operation continues to bulk sampling. Equipment servicing– Potential diesel and lubricant spills. Equipment parking area – Potential diesel and lubricant spills.

#### Description of the impact

During the prospecting, there is a possibility that equipment might leak oil, thus causing surface spillages. The hydrocarbon soil contamination will render the soil unusable unless they are decontaminated. The storage of fuels on site might have an impact on soil if not properly monitored and maintained to avoid leakages. Then there is the potential that contaminated soil can be carried through runoff to contaminate water resources and soil stockpiled for rehabilitation. Surface water pollution is therefore possible, but through mitigation it can be minimised. The impact will have minimal severity and slight effect on extent.

## 3.3.16 Disturbance, displacement and killing of fauna

## Source of the impact

Vegetation clearing; increase in noise and vibration; human and vehicular movement on site resulting from the prospecting activities.

## Description of the impact

The transformation of natural habitats due to prospecting and associated infrastructure will result in the loss of habitat affected individual species, and ecological processes. In turn this will result in the displacement of faunal species dependent upon such habitat. Increased noise and vibration due to prospecting activities will disturb and possibly displace birds and other wildlife. Fast moving vehicles take a heavy toll in the form of road kills of small mammals, birds, reptiles, amphibians and a large number of invertebrates.

## 3.3.17 Fauna Loss, damage and fragmentation of natural habitats

#### Source of the impact

Clearance of vegetation; prospecting activities.

#### Description of the impact

The construction of the prospecting and associated infrastructure will result in the loss of connectivity and fragmentation of natural habitat. Fragmentation of habitat

will lead to the loss of migration corridors, in turn resulting in degeneration of the affected population's genetic make-up. This results in a subsequent loss of genetic variability between meta-populations occurring within the study site. Pockets of fragmented natural habitats hinder the growth and development of populations.

## 3.3.18 Encouragement of bush encroachment

## Source of the impact

Clearing of vegetation; disturbances through prospecting activities.

# Description of the impact

The possibility exists that bush encroaching species can multiply as a result of the disturbance interference in the natural ecosystem. While general clearing of the area and prospecting activities destroy natural vegetation, bush encroaching plants can increase due to their opportunistic nature in disturbed areas. If encroaching plants establish in disturbed areas, it may lower potential for future land use and decrease biodiversity. With proper mitigation, the impacts can be substantially reduced.

# 3.3.19 Proliferation of alien vegetation

# Source of the impact

Clearing of vegetation; prospecting activities.

# Description of the impact

The extent of alien invasive species in the area can increase as a result of the prospecting in the natural ecosystem. While general clearing of the area and prospecting activities destroy natural vegetation, invasive plants can increase due to their opportunistic nature in disturbed areas. If invasive plants establish in disturbed areas, it may cause an impact beyond the boundaries of the prospecting site. These alien invasive species are thus a threat to surrounding natural vegetation and can result in the decrease of biodiversity and ecological value of the area. Therefore, if alien invasive species are not controlled and managed, their propagation into new areas could have a high impact on the surrounding natural vegetation in the long term. With proper mitigation, the impacts can be substantially reduced.

## 3.3.20 Loss of flora with conservation concern

## Source of the impact

Removal of listed or protected plant species; during the construction of roads, trenches and drill sites, as well as other necessary infrastructure; and the clearing of vegetation for prospecting.

# Description of the impact

It is possible that protected species will be destroyed during the prospecting operation.

## 3.3.21 Loss of, and disturbance to indigenous vegetation

#### Source of the impact

The construction of roads, trenches, drill rig, as well as other necessary infrastructure; and the clearing of vegetation for prospecting, materials storage and topsoil stockpiles; vehicular movement.

#### Description of the impact

Construction and prospecting activities on site will reduce the natural habitat for ecological systems to continue their operation. The drill rig and Vehicle traffic generates lots of dust which can reduce the growth success and seed dispersal of many small plant species.

#### 3.3.22 Noise and vibration:

#### Source of the impact

Noise generated by the drill rig, vehicles and prospecting equipment.

#### Description of the impact

Diamonds (alluvial); diamonds (in kimberlites); diamonds (general) prospecting which increase continuous noise levels; the disruption of current ambient noise levels; and the disruption of sensitive receptors by means of increased noise and vibration. This is particularly relevant to IAPs that reside in close proximity to the prospecting site and drilling locations as well as trenches.

## 3.3.23 Land use:

#### Source of the impact

Diamonds (alluvial); diamonds (in kimberlites); diamonds (general) prospecting operation.

## Description of the impact

Loss of economic function of disturbed area during prospecting activities and potential loss of land capability post prospecting (limited to the drilling areas and trenches).

## 3.4 Listed Activities applied for in terms of the National Environmental Management Act, 1998 Act 107 of 1998 (NEMA)

Table 1: Listed and Specified Activities

<ul> <li>NAME OF ACTIVITY</li> <li>e.g. for prospecting – drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route, etcetc.</li> <li>e.g. for mining – excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etcetc.</li> </ul>	Aerial extent of the Activity Ha or m <sup>2</sup>	LISTED ACTIVITY Mark with an X where applicable or affected	APPLICABLE LISTING NOTICE (GNR 544, GNR 545 or GNR 546)/NOT LISTED
Activity 9: "The development of infrastructure exceeding 1000 metres in length for the bulk transportation of water or storm water- (vii) with an internal diameter of 0.36 metres or more; or (viii) with a peak throughput of 120 litres per second or more;	Water distribution Pipelines	Х	NEMA: LN1 (GNR327)
Activity 12: "The development of— The development of- (i) dams or weirs, where the dam or weir, including infrastructure and water surface area, exceeds 100 square metres; or (ii) infrastructure or structures with a physical footprint of 100 square metres or more; where such development occurs— (a) within a watercourse; (b) in front of a development setback; or (c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse"	Clean and dirty water system It is anticipated that the operation will establish storm water control berms and trenches to separate clean and dirty water on the prospecting site.	X	NEMA: LN1 (GNR327)

Regulation GN R704, published on 4 June 1999 in terms of the National Water Act (Use of water for prospecting and related activities).			
Activity 20 of Listing Notice 1 Any activity including the operations of that activity which requires a prospecting right in terms of Section 16 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002), including (a) associated infrastructure, structures and earthworks, directly related to prospecting of a mineral resource, (b) the primary processing of a mineral resource including winning, extraction, classifying, concentrating, crushing, screening or washing;	20 136.5446ha application lodged for the farms	X	NEMA: LN1 GNR 327
Activity 19 of Listing Notice 1 The infilling or depositing of any material of more than 10 cubic metres into, or dredging, excavating, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 10 cubic metres from- (i) A watercource (pans)	Will be determined by a specialist	Х	NEMA: LN1 GNR 327
Activity 19 of Listing Notice 2 The removal and disposal of minerals contemplated in terms of Section 20 of the Minerals and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002), including (a) associated infrastructure, structures and earthworks, directly related to prospecting of a mineral resource,	20 136.5446ha application lodged for the farms	Х	NEMA: LN2 GNR 325

(b) the primary processing of a mineral resource including			
winning, extraction, classifying, concentrating, crushing,			
screening or washing.			
Activity 15 of NEMA Listing Notice 2		Х	
	Pits+Trenches		NEMA: LN2 GNR 325
The clearance of an area of 20 hectares or more of	COMBINED is		2 2
indigenous vegetation, excluding where such clearance of	150 pits 2m X 3m		
vegetation is required for –	50 trenches 200m X		
The undertaking of a linear activity; or	100m		
Maintenance purposes undertaken in accordance with a			
maintanance mangement plan.	300m²		
	1000000m <sup>2</sup>		
	100.03ha		
Activity 4 of NEMA Listing Notice 3	3ha	Х	NEMA: LN3 (GNR324)
The development of a road wider than 4 metres with a			
reserve less than 13,5 metres.			
Access roads 6 m in width with no reserve.			
Roads (both access and haulage road on the mine site):			
Although it is recommended that the operation utilize			
existing roads as far as possible, it is anticipated that the			
prospecting operation will create an additional 5 km of			
roads, with a width of 6 meter.			
Activity 10 of NEMA Listing Notice 3	± 80 m3	X	NEMA: LN3 (GNR324)
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The development of infrastructure for the storage and			
handling of dangerous goods (fuel), in containers with a			
combined capacity of between 30 and 80 m3.			

Activity 15 of Category A under the National Environmental	0.7ha	GNR 633
Management: Waste Act 59 of 2008	The disposal of inert	
The establishment or reclamation of a residue stockpile or	waste of 10 000	
residue deposit resulting from activities which require a	tons, excluding the	
prospecting right or mining permit, in terms of the Mineral	disposal of such	
and Petroleum Resources Development Act, 2002 (Act 28	waste for the	
of 2002)	purposes of levelling	
	and building which	
A Mine Residue Dam and return water dam	has been authorised	
The continuous establishment and reclamation of	by other legislation.	
temporary stockpiles resulting from activities which	o.7ha	
require a Prospecting Right.		
OTHER ACTIVITIES (Associated infrastructure not		
considered to be listed activities)		
Temporary Workshop Facilities	±0.07 ha	Not Listed
Storage Facilities	±3000m²	
Concrete Bund walls for diesel Depots	±250m²	
Ablution Facilities	±25m²	
Topsoil Stockpiles	±0.65 ha	
Overburden Stockpiles	±1.8 ha	

#### 3.5 Decommissioning phase/ Closure Period:

The decommissioning phase will only commence once all the prospecting is completed. During decommissioning all erected structures, e.g. chemical toilets, fences on demarcated areas, equipment and access roads with permission of the surface owners will be rehabilitated to their previous state. Rehabilitation will be done concurrently with the prospecting and only limited outstanding work will be necessary when prospecting is ceased.

## 4. CONCLUSION

It is clear that the destruction of the natural habitat in the prospecting area is inevitable and that there would be both positive and negative impacts related to the prospecting activities. The significance of these impacts will however be determined by the success of the mitigation measures that will be implemented by mine management in line with the Approved Environmental Management Programme report.

R.H. Oosthuizen Environmental Assessment Practitioner Wadala Mining and Consulting (Pty) Ltd