

DRAFT SCOPING REPORT

PROSPECTING RIGHT APPLICATION OF DIAMOND ALLUVIAL, DIAMOND GENERAL,
DIAMOND IN KIMBERLITE, MANGANESE AND IRON ORES ON FARM GAMOLILO 72,
KURUMAN, NORTHERN CAPE PROVINCE, SOUTH AFRICA.

SUBMITTED FOR ENVIRONMENTAL AUTHORIZATIONS IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 AND THE NATIONAL ENVIRONMENTAL MANAGEMENT WASTE ACT, 2008 IN RESPECT OF LISTED ACTIVITIES THAT HAVE BEEN TRIGGERED BY APPLICATIONS IN TERMS OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (MPRDA) (AS AMENDED).

NAME OF APPLICANT: BOTSHELO T AND G MINING RESOURCES (PTY) LTD

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1. IMPORTANT NOTICE

In terms of the Mineral and Petroleum Resources Development Act (Act 28 of 2002 as amended), the Minister must grant a prospecting or mining right if among others the mining "will not result in unacceptable pollution, ecological degradation or damage to the environment".

Unless an Environmental Authorisation can be granted following the evaluation of an Environmental Impact Assessment and an Environmental Management Programme report in terms of the National Environmental Management Act (Act 107 of 1998) (NEMA), it cannot be concluded that the said activities will not result in unacceptable pollution, ecological degradation or damage to the environment.

In terms of section 16(3)(b) of the EIA Regulations, 2014, any report submitted as part of an application must be prepared in a format that may be determined by the Competent Authority and in terms of section 17 (1) (c) the competent Authority must check whether the application has taken into account any minimum requirements applicable or instructions or guidance provided by the competent authority to the submission of applications.

It is therefore an instruction that the prescribed reports required in respect of applications for an environmental authorisation for listed activities triggered by an application for a right or a permit are submitted in the exact format of, and provide all the information required in terms of, this template. Furthermore please be advised that failure to submit the information required in the format provided in this template will be regarded as a failure to meet the requirements of the Regulation and will lead to the Environmental Authorisation being refused.

It is furthermore an instruction that the Environmental Assessment Practitioner must process and interpret his/her research and analysis and use the findings thereof to compile the information required herein. (Unprocessed supporting information may be attached as appendices). The EAP must ensure that the information required is placed correctly in the relevant sections of the Report, in the order, and under the provided headings as set out below, and ensure that the report is not cluttered with un-interpreted information and that it unambiguously represents the interpretation of the applicant.

2. Objective of the Scoping process

The objective of the scoping process is to, through a consultative process—

- (a) Identify the relevant policies and legislation to the activity;
- (b) Motivate the need and desirability of the proposed activity, including the need and desirability of the activity in the context of the preferred location;
- (c) Identify and confirm the proffered activity and technology alternative through and impact and risk assessment and ranking process;
- (d) Identify and confirm the preferred site, through a detailed site selection process, which includes an impact and risk assessment process inclusive of cumulative impacts and ranking process of all the identified alternatives focusing on the geographical, physical, biological, social, economic, and cultural aspects of the environment;
- (e) Identify the key issues to be address in the assessment phase;
- (f) Agree on the level of assessment to be undertaken, including the methodology to be applied, the expertise required as well as the extent of further consultation to be undertaken to determine the impacts and risks the activity will impose on the preferred site through the life of the activity, including the nature, significance, extent, duration and probability of the impacts to inform the location of the development footprint within the preferred site; and
- (g) Identify, through a ranking of the site sensitivities and possible impacts, the activity and technology alternatives will impose on the sites and location identified through the life of the activity to—
 - (i) identify and motivate a preferred site, activity and technology alternative;
 - (ii) identify suitable measures to manage, avoid or mitigate identified impacts; and
 - (iii) identify residual risks that need to be managed and monitored.

SCOPE REPORT

3. Contact Person and correspondence address

a) Details of

i) Details of the EAP

Name of The Practitioner: Zandile Dwane

Tel No.: 063 859 6616

Fax No.:

e-mail address: kamvisto@gmail.com

ii) Expertise of the EAP.

(1) The qualifications of the EAP

(with evidence).

M. Sc in Geology South African Council for Natural Scientific Professionals American Association of Petroleum Geologists Attach evidence as Appendix1

(2) Summary of the EAP's past experience.

(In carrying out the Environmental Impact Assessment Procedure)

Relevant past experiences include, but not limited, to the following: Environmental Impact Assessments, Environmental Management Plans and / or Reports, Rehabilitation progress assessments, Environmental compliance monitoring, Scoping Reports, etc.

See CV herewith attached Attach evidence as Appendix2

b) Location of the overall Activity.

Table 1: Description of property

Farm Name:	Farm Gamolilo 72, within the Administrative			
	District of Kuruman, John Taolo Gaetsewe			
Application area (Ha)	Approximately 6 043.92 Ha			
Magisterial district:	Kuruman, John Taolo Gaetsewe			
Distance and direction	The area of interest is situated approximately 25			
from nearest town	Km to Hotazel and about 100 Km to Kuruman.			
21 digit Surveyor	C0410000000007200000			
General Code for each				
farm portion				

c) Locality map (show nearest town, scale not smaller than 1:250000

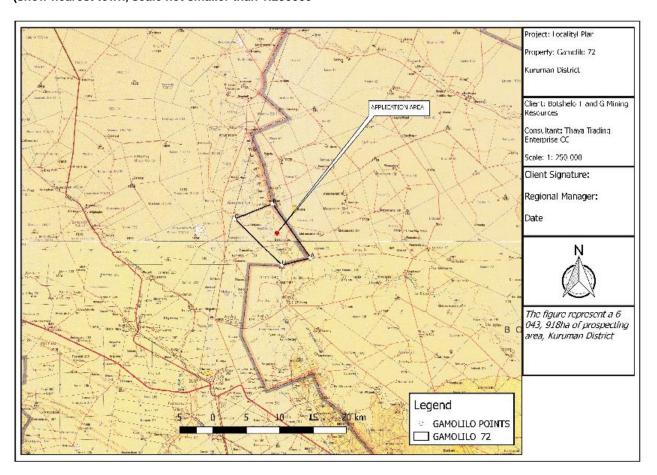


Figure 1: Locality Map John Taolo Gaetsewe Municipality

d) Description of the scope of the proposed overall activity.

Provide a plan drawn to a scale acceptable to the competent authority but not less than 1: 10 000 that shows the location, and area (hectares) of all the aforesaid main and listed activities, and infrastructure to be placed on site

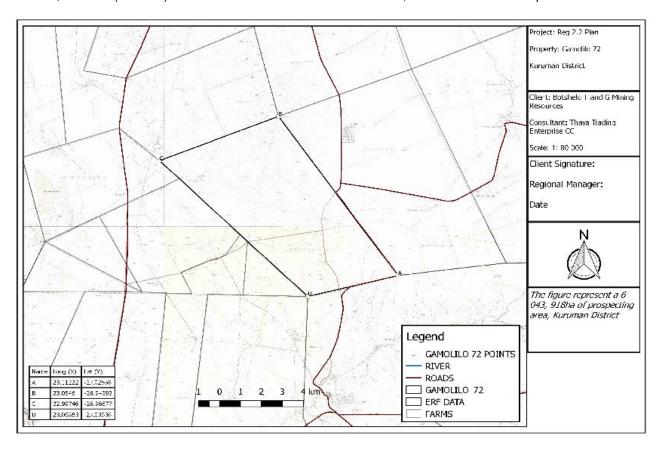


Figure 2a: Map shows the location, and area (hectares) of all the aforesaid main and listed activities



Figure 2b: Map shows the location and infrastructure

(i) Listed and specified activities

Table 2

NAME OF ACTIVITY	Aerial extent of	LISTED	APPLICABLE
E.g. for mining,- excavations, blasting, stockpiles,	the Activity	ACTIVITY	LISTING
discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes,	Ha or m ²	Mark with an	NOTICE
accommodation, offices, ablution, stores,		X where	(GNR 324,
workshops, processing plant, storm water		applicable or	GNR 325,
control, berms, roads, pipelines, power lines, conveyors, etcetc)		affected.	GNR 326 or
			GNR 327)
This includes any activity, together	6 043.918 Ha	X	GNR 325
with the operations of that activity			
which requires a prospecting right in			
terms of Section 16 of the Mineral and Petroleum Resources			
and Petroleum Resources Development Act, 2002 (Act No. 28			
of 2002), including associated			
infrastructure, structures and			
earthworks, directly related to			
prospecting of a mineral resource,			
including activities for which an			
exemption has been issued in terms			
of Section 106 of the Mineral and			
Petroleum Resources Development			
Act, 2002 (Act 28 of 2002)			
Activity 20 of Listing Notice 1	00011		G1172 00.5
The extraction, removal and disposal	900 Ha	X	GNR 325
of minerals that is envisaged in terms			Listing
of Section 20 of the Minerals and			Activity 19
Petroleum Resources Development Act, 2002 (Act 28 of 2002) ("Act"),			
including affected infrastructure,			
structures and earthworks, directly			
related to prospecting of a mineral			
resource and activities for which an			
exemption has been issued in terms			
of Section 106 of the Act.			
Activity 19 of Listing Notice 2			
All activities, including the operation	0.26 Ha	X	GNR 325
of a particular activity associated with			Listing
primary processing of a mineral			Activity 21
resource such as extraction,			
classifying, reduction, concentrating, winning, crushing, screening and			
washing but excluding the smelting,			
beneficiation, refining, calcining or			
gasification of the mineral resource in			
which case Activity 6 of this Notice			
applies.			
Activity 21 of Listing Notice 2			
Clearance of indigenous vegetation	900 Ha - Only the	X	GNR. 325,
	area where		Listing Activity

The same and the s	prospecting activities are going to take place will be cleared of indigenous vegetation. Concurrent rehalibilation will be conducted with normal backfilling.	National Districts
Temporary structures (3 x Park Homes)	0.215 ha	Not listed
Temporary Dump Site	0.19 ha	Not listed
Residue Dam	0.5 ha	Not listed
Concrete spillage control at diesel bousers	100 m ²	Not listed
Oil storage facility	100 m^2	Not listed
Water pipeline of undetermined length but less than 10 Km	3 Km	Not listed
Roads to trenches and processing plant	+- 3 Km	Not listed
Stockpiling of topsoil	900 ha – 3m X 2m X 500m pit (200 pits) 200m X 100m X 200m trench (20 trenches)	Not listed

(ii) Description of the activities to be undertaken

(Describe Methodology or technology to be employed, including the type of commodity to be prospected/mined and for a linear activity, a description of the route of the activity)

1) Description of Planned Non-Invasive Activities

(These activities do not disturb the land where prospecting will take place e.g. aerial photography, desktop studies, aeromagnetic surveys, etc.)

Phase 1

Imagery Analysis and 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 or Kimberlites, Manganese and Iron Ores.

A site investigation of the target areas will be undertaken to identify infrastructure and determine any potential problems that may need to be addressed.

2) Description of Planned Invasive Activities

(These activities result in land disturbances e.g. sampling, drilling, bulk sampling, etc.)

Phase 2

Trenches Sampling

Discussed herein after, Section 3.

3) Description of Pre-feasibility Studies

(Activities in this section include, but are not limited to, the following: initial, geological modelling, resource determination, possible future funding models, etc.)

Phase 3

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 to capture all exploration data.

4) Description of Bulk Sampling Activities

Bulk sampling is a sampling technique.

Volumes of the mineral to be tested

About 20 Trenches will be excavated with the dimensions as written in Table 2 in order to determine whether there are any commodities of interest underground. It is estimated that an average 3 - 70 m of overburden (calcrete, dolomite, waste rock and soil) will be removed before accessing the ore body which is expected to host diamonds, manganese and iron ores. The trenches will be 200 m x 100 m x 200 m deep. We calculated the volume of gravel on 50 m and if all 20 trenches are going to be excavated an average of 1 000 $000m^3$ will be tested.

Why will they be tested?

The Iron and Manganese ore will be tested. The testing will be conducted at an analytical laboratory. Kimberlitic material and diamondiferous gravels will be tested to determine a grade (carats per hundred tonne) and value (US\$ per carat). The closest iron and manganese ore operations together with the nearby diamond operations may be utilised to processing of material. Alternatively, the applicant may have to utilise processing plant to be placed on site.

Where will they be tested?

All bulk sampling activities will take place on site or out of site. Herewith follows a description of the process:

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The planned bulk sampling technique is that of a typical South African diamond, iron and manganese ore operations and may have to include mining of kimberlite. A part of the planned prospecting method is a strip-mining process with oversize material from the gravel scalping and the tailings from the plant, being used as a backfill material prior to final rehabilitation. The Ores and Gravels are excavated, loaded and transported to the nearby treatment facility using articulated dump trucks. The access to the various trenches will be provided by a haul road to the screening and processing plants. The operation is to be conducted using conventional open pit mining equipment comprising two articulated dump trucks supported by appropriate excavators and a front-end loader. At later stages of this proposed development, underground operations may become necessary. The vegetated soil overlying the planned trenches is stripped prior to excavation of the ores and gravel and stockpiled on a dedicated dump to be used for rehabilitation purposes at a later stage. The ores and gravel is loaded with 60-t excavators onto ADT's. Ore is hauled to the screening plant. As an integral part of the bulk sampling processes, backfilling will take place continuously. The operation is to be conducted using conventional open pit mining equipment at the beginning:

Earthmoving and ancillary equipment

- 2 x Excavator
- 3 x Front-end Loader
- 4 x Articulated Dump Trucks
- 2 x Water Truck
- 1 x 16ft-Rotary Pan
- 1 x Jig/DMS/Sinter Plant

Screen

Utility vehicles and small tools

Diamond recovery unit with Flow sort Machines, Plant, and recovery, crushing and screening equipment

Kimberlitic material and Gravels are loaded onto a vibrating grizzly and the +85mm oversize material is discarded back into the open pit (about 25% reduction). The remaining -85mm fraction is loaded into a 16-foot rotary pan with a treatment capacity of 80 tph. A magnetic separator is used to extract some of the heavy banded iron stones. Tracer tests are done regularly to ensure that the pans are operating at the correct density. Approximately 2.5 tonne of concentrate is tapped from the pan every hour and transported in locked containers to the final recovery unit. The final recovery unit consists of a holding bin, sizing screen, sizing bins and one state of the art Flowsort X-ray recovery unit which recover diamonds from the +2mm to -32mm size fraction. Final sorting of the X-ray concentrate will be done manually. Rehabilitation will take place continuously and at any stage only one trench will be open.

To whom they will be disposed of:

At an expected grade of 2 carats per hundred tonnes, 8 800 carats could be recovered from the kimberlitic material and gravels. Diamonds will be sold at a reputable diamond tender house in Kimberley or

international communities that are affiliated to the Kimberly Process to determine an average US\$ carat value for the diamonds.

Another part of Prospecting Method will include site preparation

Site preparation includes the clearing of vegetation and topsoil stripping. Topsoil is stockpiled, for later use in rehabilitation.

5) Earthworks

Following site preparation all topsoil and some waste rock is dozed and stockpiled separately for re-use for rehabilitation activities

Drilling and blasting

Some of the topsoil, overburden material will be removed. The waste rock is drilled and blasted in benches until the economic ore body is exposed. This is done in a manner that is of high quality, effective and efficient. Best industry practices are to be employed in the process. Similarly, drill and blast methods are used to break the ore with careful attention being paid to avoiding contamination of the ore with overburden material and waste.

Blasting will occur only if deemed necessary. All the recommended best practices will be observed should blasting be deemed necessary at any stage of this proposed development.

Removal of waste rock

Broken waste rock is loaded by excavator and hauled by auxiliary dump trucks to the waste dumps where it is tipped.

Rehabilitation

Once the open pit reaches a steady state, on-going rehabilitation of the excavated areas using methods such as backfilling will occur as prospecting activities advance. In this regard, waste rock will be used to backfill the pit voids (once there is enough space to dump

MINERAL PROCESSING METHOD

Primary crushing and screening

ROM is delivered to the primary crushing and screening plant using auxiliary dump trucks. The primary crushing and screening plant are used to reduce the size of the ore to fractions required by the downstream plant processes. ROM that has been subjected to the primary crushing and screening plant is stockpiled prior to being sent to the secondary crushing and screening plant using machinery or conveyor for further resizing. Dust suppression using appropriate techniques should be employed at all crushing and screening locations.

Secondary crushing and screening

The secondary crushing and screening plant is used to size the ore according to product specifications. The final product from the secondary crushing and screening plant is stockpiled at one of the product stockpile areas or the crushed ROM stockpile. The processed ore that is going to be stockpiled may vary between -6+1 mm and -75 + 6 mm. Different individual fractions may be stockpiled separately. The final product is loaded

out of site to be sold to local and international markets for further beneficiation. Front end loaders or equivalent loaders are to be used to load product out of site.

Superfine waste material will be re-used as topsoil for rehabilitation and re-vegetation purposes.

Tertiary crushing and screening (to be sent to nearby mining operations for further processing)

The tertiary crushing and screening section (– 40, +6 mm material) will be used to prepare the ore for sinter plant feed. High grade product will be stockpiled at the tertiary product stockpile prior to being sent to the sinter plant. Manganese that is below the required grade from the tertiary crushing and screening plant will be stockpiled at a low grade stockpile prior to being sent to the Dense Medium Separator (DMS) for further processing. Any fines material (-1 mm) produced at the tertiary crushing and screening plant will be sent to the thickener for disposal to the tailings dam

Sintering (to be sent to nearby mining operations for further processing)

In the sinter plant, ore will be sintered by the application of heat, to agglomerate it and to increase the manganese content (by burning off the carbonaceous material). Raw materials will be mixed with the manganese ore in a rotating mixing pan prior to agglomeration in a rotary drum. The agglomerated material will be fed into the sinter furnace on a steel belt. The sinter furnace is a multi-compartment oven that is ignited with gas or heavy fuel oil. The front compartments will be used for drying, ignition and sintering. The back compartments will be for cooling. Gas emissions will be scrubbed in cascade scrubbers to remove most of the particulates and pollutants. The dirty scrubber water will be re-cycled in the thickener plant. Dust emissions will be captured in bag filters and recycled into the sinter feed. The final product will be stockpiled on the product stockpile prior to being loaded out of site to be sold to third parties.

Dense medium separation (to be sent to nearby mining operations for further processing)

Prior to the sintering stage, manganese ore that is below the required grade (-6 + 1 MM) can be beneficiated using dense medium separation, effectively upgrading the ore. Using density differential between manganese and waste; the material will be sent to the sinter feed stockpile prior to being sent to the sinter plant while the waste will be disposed onto the temporary discard dump.

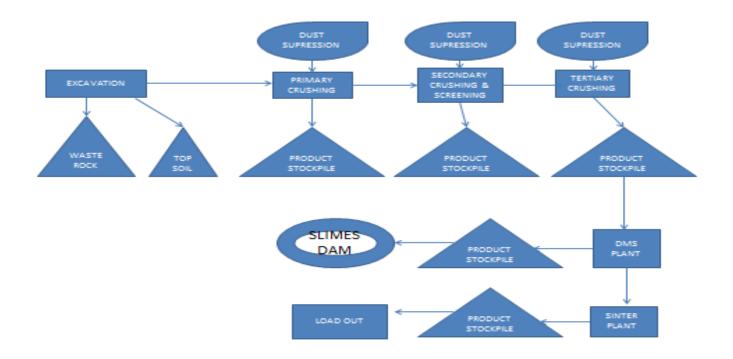


Figure 3: Schematic representation of the planned process flow

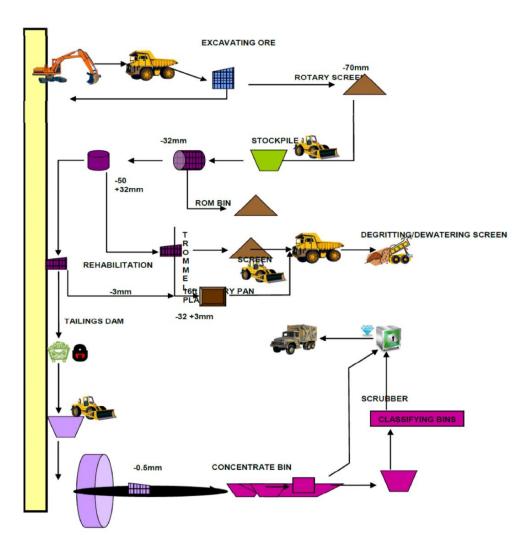


Figure 4: Schematic representation of the planned process flow for diamond processing

ACTIVITY		DETAILS		
Number of pits/trenches planned		20 trenches and 200 test pits		
	Number of pits/trenches	Length Breath Depth		
	200/20	200 m 100 m 200 m		
Locality		See figure 1		
Volume Overburden (Waste)		1 000 000 m ³		
Volume Ore		> 125 000 m ³		
Density Overburden		To be determined during Prospecting Activities.		
Density Ore		To be determined during Prospecting Activities.		
Phase when bulk sampling will be required		Phase 3		
Timeframe(s)		From time-to-time during months 7 to 30		

Table 3: Bulk Sampling Activities

e) Policy and Legislative Context

Table 4: Policy and Legislative Context

APPLICABLE LEGISLATION AND GUIDELINES USED TO COMPILE THE REPORT (a description of the policy and legislative context within which the development is proposed including an identification of all legislation, policies, plans, guidelines, spatial tools, municipal development planning frameworks and instruments that are applicable to this activity and are to be considered in the assessment process	REFERENCE WHERE APPLIED	HOW DOES THIS DEVELOPMENT COMPLIY WITH AND RESPOND TO THE LEGISLATION AND POLICY CONTEXT. (E.g. In terms of the National Water Act a Water Use License has/ has not been applied for)
Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002)	Prospecting Right application process	Prospecting Rights have been applied for and have been accepted by the

		Department of Mineral Resources.
Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002)	Prospecting Right and Environmental Authorisation processes	In progress
National Environmental Management Act, 1998 (Act 107 of 1998)	Section 28 of the National Environmental Management Act, Act 107 of 1998 stipulates an obligation of consideration of care where reasonable measures are taken to prevent pollution or degradation from occurring, continuing or recurring, or, where this is not possible, to minimise and rectify pollution or degradation of the environment. Section 29 provides for the protection of workers who refuse to undertake work that posses a hazard to the environment. Section 30 emphasises on procedures to be followed in the event of an emergency, especially an incident which may impact negatively on the environment. Section 31 covers the aspect of access to environmental information and protection of whistle blowers.	In progress
National Environmental Management Act, 1998 (Act 107 of 1998) Environmental Impact Assessment Regulations, 2017 (G40772)	GNR 325: 2017 Regulations promulgated in terms of NEMA, Act 107 of 1998: GNR 324, 325, 326 and 327 Government Gazette No. 40772, Pretoria, in terms of Chapter 5 of the National Environmental Management Act, Act 107 of 1998 (as amended), contain the EIA Regulations, as well as a schedule of activities that may have substantially negative effects on the environment, therefore, require authorisation from the competent environmental authority.	In progress
National Environmental Management Act: Biodiversity Act, 2004 (Act 10 of 2004)	The National Environmental Management: Biodiversity Act, Act 10 of 2004 provides for the MEC/ Minister to list ecosystems that are threatened and in need of protection (Section 52) and to identify any process or activity in such a listed ecosystem as a threatening process (Section 53). A	

National Environmental Management Act: Waste Act, 2008 (Act 59 of 2008)	list of threatened and protected species has been published in terms of Section 56(1) GG 29657 GNR 151 and GNR 152, Threatened or Protected Species Regulations. The Act also deals with restricted activities involving alien species; restricted activities involving certain alien species totally prohibited; and duty care to be taken pertaining to listed invasive species. Regulates waste management in order to protect health and the environment by stipulating reasonable measures to be taken to ensure prevention of pollution and ecological degradation, and for securing ecologically-	In Progress
National Water Act, 1998 (Act 36 of 1998)	In terms of the definitions contained in Section 1 of the National Water Act, Act 36 of 1998, a "water resource" includes a watercourse, surface water, estuary, or aquifer. "Aquifer" means a geological formation which has structures or textures that hold water or permit appreciable water movement through them. "Watercourse" means a river or spring; a natural channel in which water flows regularly or intermittently; a wetland, lake or dam into which, or from which, water flows; and any collection of water which the Minister may, by notice in the Gazette declare to be a watercourse, and a reference to a watercourse includes, where relevant, its bed and banks. In addition, in terms of the definitions contained in Section 1 of the National Water Act, waste "includes any solid material or material that is suspended, dissolved or transported in water (including sediment) and which is spilled or deposited on land or into a water course in such volume, composition or manner as to cause, or to be reasonably likely to cause, thewater resource to be polluted". The Minister of Water and Sanitation and that of Environmental Affairs are allowed to regulate activities which have a detrimental impact on water resources by declaring them to	In progress

	be controlled activities. No person may undertake a controlled activity unless such person is authorised to do so by or under the Act. Duty of Care to prevent and remedy the effects of pollution to water resources is addressed in Section 19. Section 20 addresses the procedures to be followed, as well as control of emergency incidents which may impact on a water resource. Recognised water uses are addressed in terms of Section 21 and the requirements for registration of water uses are stipulated in Section 26 and Section 34.	
World Heritages Convention Act, 1999		
(Act 49 of 1999) Environmental Conservation Act, 1989 (Act 73 of 1989)	Section 25 of the Environment Conservation Act, Act No. 73 of 1989, as well as the National Noise Control Regulations GNR 154 dated 10 January 1992, regarding noise, vibration and shock, is applicable.	
Environmental Conservation Amendment Act, 2003 (Act 50 of 2003) G26023		
National Environmental Management Act: Protected Areas Act, 2003 (Act 57 of 2003)		
In terms of the National Heritage Resources Act, 1999 (Act No. 25 of 1999)	In terms of the National Heritage Resources Act, Act No. 25 of 1999, any person who intends to undertake "any development or other activity which change the character of a site — exceeding 5 000m² in extent" and "the construction of a Linear development or barrier exceeding 300m in length" must at the very earliest stages of initiating the development notify the responsible heritage resources authority, viz. the Northern Cape Provincial Heritage Resources Agency (NCPHRA) and/or the South African Heritage Resources Agency (SAHRA), as well as the Northern Cape	

	Department of Sports, Arts and Culture.	
Conservation of Agricultural	Section 5 of the Conservation of	
Resources	Agricultural Resources Act, Act No. 43	
Act, Act No 43 of 1983	of 1983, prohibits the spreading of	
	weeds and Section 6 and Regulation 15	
	and 15E of GNR 1048 address the	
	implementation of control measures for	
	alien and invasive plant species.	
	This aspect has been addressed in the	
	Environmental Management	
	Programme. This Act also make	
	provision for the conservation of	
	agricultural land.	
National Forests Act, 1998	National Forests Act, Act No. 84 of	
(Act No. 84 of	1998 and Regulations, Section 7: No	
1998)	person may cut, disturb, damage or	
	destroy any indigenous, living tree in a	
	natural forest, except in terms of a	
	licence issued under Section 7(4) or	
	Section 23; or an exemption from the	
	provisions of this subsection published	
	by the Minister in the Gazette. Sections	
	12 – 16 deal with protected trees, with	
	the Minister having the power to	
	declare a particular tree, a group of	
	trees, a particular woodland, or trees	
	belonging to a certain species, to be a	
	protected tree, group of trees,	
	woodland or species. In terms of	
	Section 15, no person may cut, disturb,	
	damage, destroy or remove any	
	protected tree; or collect, remove,	
	transport, export, purchase, sell, donate	
	or in any other manner acquire or	
	dispose of any protected tree, except under a licence granted by the Minister.	
Subdivision of Agricultural	Control the subdivision, and in	
Land Act, Act	connection therewith, the use of	
70 of 1970	agricultural land. It also controls long	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	terms leases over portions of	
	agricultural land. The applicant needs	
	to apply for consent from Department of	
	Agriculture for these leases.	
Section 17 of the Fencing	States that any person erecting a	
Act, Act No 31	boundary fence may clean any bush	
of 1963	along the line of the fence up to 1.5m	
	on each side therefore and remove any	
	tree standing in the immediate line of	
	the fence. However, this provision	
	must be read in conjunction with the	
	environmental legal provisions relevant	
	to protection of flora.	

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Section 8 of the Atmospheric Pollution Prevention Act, Act No. 45 of 1965	Section 8 of the atmospheric Pollution Prevention Act, Act No. 45 of 1965, regulating controlled areas, as well as Section 27, with regard to dust control, is still applicable.	
The Occupational Health and Safety Act, Act No. 85 of 1993 GN R 2281 of 1987 – 10-16.	Environmental Regulations for Workplaces are applicable.	
The Northern Cape Nature Conservation Act, Act No. 9 of 2009 addresses protected species in the Northern Cape and the permit application processes related thereto.	Addresses protected species in the Northern Cape and the permit application processes related thereto.	
The South African Civil Aviation Regulation Act, Act 13 of 2009.	Controls markings of structures that may influence aviation through the Civil Aviation Technical Standard, SA-CATSAH 139.01.33 Obstacle Limitations and Markings outside Aerodrome or Heliports. It states that any structure exceeding 45m above ground level, or structures where the top of the structure exceeds 150m above the MEAN ground level, like on top of a hill, the mean ground level considered to be the lowest point in a 3km radius around such structure. Structures lower than 45m, which are considered as a danger or a potential danger to aviation, shall be marked as such when specified. Overhead wires, cables, etc., crossing a river, valley or major roads shall be marked and in addition, their supporting towers marked and lighted if an aeronautical study indicates that is could constitute a hazard to aircraft. The highest structures that would be constructed at the proposed development would be the lighting conductors, which would have a height of 25 m.	

f) Need and desirability of the proposed activities.

(Motivate the need and desirability of the proposed development including the need and desirability of the activity in the context of the preferred location).

For years, mining has been the driving force behind South Africa's economy and continues to make a valuable contribution to the country's GDP. The economy of South Africa is built mostly on gold and diamond-mining, with gold-mining contributing over a third of the country's exports. Whereas, South African diamond-mining industry was listed as one of the largest mining countries in the world in the year 2009. To a great extent, bulk commodities such as Iron and Manganese ores have proven to be significant contributors to South Africa's GDP in the recent years. Big local mining houses such as Anglo American Kumba Iron Ore, ASSMANG LIMITED and South 32 to mention but a few have a good story to tell about how they have been performing even during and after the period of the global credit crunch.. It is predicted that mining will still play an important role to the economy, most notably through foreign exchange earnings and employment provision. It is also one of the primary sectors that provide employment opportunities for unskilled and semi-skilled people. The South African mining industry has its origin in small-scale to medium-scale mining activities, with these operations offering much needed employment opportunities and entrepreneurship, as well as contributing to the mineral sector and local economy. Small-scale mining and medium-scale mining's impact on employment is especially observed in the rural areas and province such as the Northern Cape where there are limited opportunities; providing significant livelihood for rural communities and a means of alleviating poverty.

The proposed development of the Mine is aimed at supporting the economy of South Africa by producing a commodity that has a potential to leverage the economy of the country. The primary beneficiaries of this project include, among others, the employees, members of surrounding communities and the country. Secondary beneficiaries include the suppliers of goods and services, and the local businesses through the buying power of employees. This is in line with the National Development Plan (NDP). The Social Labour Plan of the Proposed development is aimed at ensuring local economic development through implementation of the various projects.

The applicant estimates that these small pieces of land could, if prospecting rights are granted, prove to be bearing commodities of high economic value. Only small portions of the farms that are targeted will be temporarily disturbed. The remainder of the farm portions will proceed as normal at this stage.

g) Period for which the environmental authorisation is required.

The environmental authorisation is required for a minimum period of 5 years.

h) Full description of the process followed to reach the proposed preferred site.

NB!! – This section is about the determination of the specific site layout and the location of infrastructure and activities on site, having taken into consideration the issues raised by interested and affected parties, and the consideration of alternatives to the initially proposed site layout.

Each of the phases is dependent on the results of the preceding phase. Each of the phases is dependent on the results of the preceding phase. The location and extent of ore bulk sampling, and possible diamond bulk sampling can therefore not be determined at this stage. Mapping of the prospecting activities could thus not be undertaken. In an event there are Kimberlite pipes in any of the farms of interest; mining operations will be conducted accordingly.

i) Details of all alternatives considered.

With reference to the site plan provided as Appendix 4 and the location of the individual activities on site, provide details of the alternatives considered with respect to:

- (a) the property on which or location where it is proposed to undertake the activity;
- (b) the type of activity to be undertaken;
- (c) the design or layout of the activity;
- (d) the technology to be used in the activity;
- (e) the operational aspects of the activity; and
- (f) the option of not implementing the activity.

This scoping report identifies, among others, critical components of alternatives to be considered whilst ensuring that the desired outcome pertaining the proposed project is realised. In the process of identifying and assessing the feasible options, factors such as the National Development Plan and sustainable development to mention just a few are considered. The assessment process may include the environmental friendliness, economic viability and reasonable practicability. Therefore, alternatives for the locality of the prospecting activities are not discussed in this piece of work because the position and location of the mine are influenced to an unlimited extent by the availability of the commodity at a location.

Land use

There is no specialist comparative study in place for the proposed prospecting work area. However, some specialist studies are going to be conducted. The process that is going to be employed from beginning to end of prospecting works is going to be step-wise; the initial step is going to be to establish whether or not their commodities of economic value that could be mined in the area of interest before any development can take place. Some parts of the farms of interest have been drilled for Iron and Manganese ores previously; as such there is existing infrastructure on them. It would be convenient, environmentally friendly and economically viable to utilise the existing infrastructure. If need arises, during prospecting phase, the infrastructure used will be mobile only where applicable.

The rehabilitation process and the prospecting phase are going to be conducted simultaneously in order to ensure that the pits that get opened during the prospecting phase are backfilled. All the material taken out of the pits that does not bare the commodity of interest will be deposited back into the pits. The rehabilitation process will be performed with the aim to enable normal agricultural activities to be undertaken after the mining has been deemed economically not viable.

Consultation of I&APs

Results obtained from the consultation process followed are going to be discussed later in this report.

Prospecting Method

To the best of our knowledge, the most economically viable method to be applied in open pit mining operations is 'backfilling'. The method of backfilling is going to be used in this proposed development as well.

Proceed without the Mine (no go)

Biodiversity

biodiversity provides value for ecosystem functionality, aesthetic, spiritual, cultural, and recreational reasons. The known value of biodiversity and ecosystems is: • soil formation and fertility maintenance; • primary production through photosynthesis, as the supportive foundation for all life; • provision of food and fuel; • provision of shelter and building materials; • regulation of water flows and water quality; • regulation and purification of atmospheric gases; • moderation of climate and weather; • control of pests and diseases; and • maintenance of genetic resources.

The establishment of infrastructure as well as certain supportive activities have the potential to result in the loss of vegetation, habitat and related ecosystem functionality through physical disturbance and/or contamination of soil and/or water resources.

As a baseline, this section provides an outline of the type of vegetation occurring on site and the status of the vegetation, highlights the occurrence of sensitive ecological environments including sensitive/ endangered species (if present) that require protection and/or additional management actions should they be disturbed.

Heritage and Cultural Resources

The existing heritage resources, if any, are going to be protected through demarcation of the NO-GO zone(s). All encountered graves, if any, are going to be preserved. Buffer zones may be built, at least 100 m away from the preserved heritage resource. Specialists and relevant authorities will be notified and called in should any Heritage Resources of significant importance be encountered. Alternatively, a procedure/protocol that is recommended by specialists may have to be followed.

Socio-Economy

The proposed project will, if proven to be economically viable, contribute to the economy of the local communities, and to that of the country at large. On prospecting phase of the proposed development alone, there are some people who are going to benefit as employees of the company.

Technology to be used during Activities

In terms of the technologies proposed, these have been chosen based on the long-term success of their prospecting history. The prospecting activities proposed in the Prospecting Works Programme is dependent on the preceding phase as previously discussed, therefore no alternatives are indicated, but rather a phased approach of trusted prospecting techniques.

The preferred technology for the proposed mining activity will be to remove the diamond bearing gravel with an excavator, depositing it in the 10 - 18 feet rotary pan(s) to be washed and sorted. However, if it happens, kimberlite deposits are identified on this site, the Dense Media Separation (DMS) plant may become a technique of choice.

Operational Aspect of the Activity

Due to the nature of the prospecting activities, no permanent services in terms of water supply, electricity, or sewerage services are required.

The activities will commence with a site investigation and desktop studies, which will comprise of non-invasive techniques. This manner of survey will ensure that the applicant can clearly delineate areas which are suitable for further investigation and no unnecessary surface disturbance will be undertaken.

Based on the outcome of the desktop studies and site investigation, pits will be dug by an excavator for the purpose of soil sampling. If gravel is found, the applicant will determine the composition and quality of the gravel.

The applicant will proceed with this way of prospecting by means of the open cast/trenching method, simultaneously or after pitting depending on the information obtained from the earlier work done. The trenches will be dug to remove and wash the gravel. It will be washed by a washing pan to determine diamond proceeds per 100 tons of gravel or kimberlitic ore.

All data will be consolidated and processed to determine the diamond bearing resources on the property. This will be a continuous process throughout the prospecting work programme. No feasible alternatives to the pitting and trenching method currently exist as far as we are aware. Impacts associated with the prospecting operations will be managed through the implementation of a management plan, developed as part of the application for authorisation. See Figure 3.

ii) Details of the Public Participation Process Followed

Describe the process undertaken to consult interested and affected parties including public meetings and one on one consultation. NB the affected parties must be specifically consulted regardless of whether or not they attended public meetings. (Information to be provided to affected parties must

include sufficient detail of the intended operation to enable them to assess what impact the activities will have on them or on the use of their land.

Letters were sent out by registered mail to interested and affected parties (land owners, neighbouring farmers, certain government departments and parastatals). Identified I&APs, including key stakeholders representing various sectors, will be directly informed of the proposed development and the availability of the Scoping Report via registered post.

The consulted parties include the following:

Departments:

Water and Sanitation, CPA, SAHRA, Agriculture, Environment and Nature Conservation, Eskom, Transnet, Herbert Municipality, Public Works, Rural Development, Land Commission & SANRAL

A notice was published in English on Kathu Gazette newspaper for public participation and registration as Interested and Affected Parties (I&APs) to comment. All the I&APs will be requested to submit comments and objections to Thaya Trading Enterprise within 30 days of the advertisement.

The process as described by NEMA for Environmental Authorisation will be followed. Letters were sent by registered mail to all parties given below. See attachment.

iii)Summary of issues raised by I&Aps

(Complete the table summarising comments and issues raised, and reaction to those responses)

Table 5: Summary of issues raised by I&As

List the names of persons consthis column, and Mark with an X where those where consulted were in consulted.	sulted in	Date Comments Received	Issues raised	EAPs response to issues as mandated by the applicant	Section and paragraph reference in this report where the issues and or response were incorporated.
AFFECTED PARTIES					
Landowner/s	X				
Kuruman, John Taolo Gaetsewe	X				
Joe Morolong Local Municipality	Х				
Lawful occupier/s of the land					
Landowners or lawful occupiers	Х				

on adjacent properties			
Municipal councillor	Х		
Municipality	Х		
Organs of state (Responsible for infrastructure that may be affected Roads Department, Eskom, Telkom, DWA e			
Communities			
Dept. Land Affairs	X		
Traditional Leaders			
Dept. Environmental Affairs			
Other Competent Authorities affected			
SANRAL	X		
Transnet	Х		
OTHER AFFECTED PARTIE	<u> </u> <u> </u>		
SAHRA			
INTERPORTED BY THE			
INTERESTED PARTIES			
None			

		_

- iv) The Environmental attributes associated with the alternatives.(The environmental attributed described must include socio-economic, social, heritage, cultural, geographical, physical and biological aspects)
 - (1) Baseline Environment
 - (a) Type of environment affected by the proposed activity. (its current geographical, physical, biological, socio- economic, and cultural character).

Geology of the Area Local Geology

Rocks of the area are composed of pink white and grey fined-grained porphyritic granitic types which are the oldest rocks of the Swazian Erathem in the area.

The Schmidtsdrif Subgroup forms the lower part of the Ghaap Group and is divided into two formations (Boomplaas and Clearwater Formations) of approximately 100 m thick. In the middle of the formation shale becomes more predominant and ferruginised shale greywith siltstone and interbanded thin dolomite. Chert and chert conglomerate are present at the base. The upper formation consists of calcretic dolomite with few stromatolites and thin banded shale and siltstones (Beukes, 1987). The Ghaap Plateau Formation can be distinguished from the underlying formation only where the quartzite is present on the latter. Elsewhere the rocks consist of dark blue finegrained dolomite. A few stromatolite-bearing zones, small lenses of black chert locally developed in thin shale and siltstone are present. Brown ferruginous jasper layers up to 12 m thick, separate the lower part of the formation from the overlying grey coursegrained dolomite. A Breccia of black chert and a few stromatolites occur in the dolomite.

A third zone can be distinguished in the upper part of the formation. It contains lenses of limestone and a prominent layer of chert forms the top of the succession. The layer of chert occurs sporadically on the Maremane anticline where it is brecciated in places to form the silica breccia (Moen et al., 1977). Asbestos Hills Subgroup is the sole representative of the Ghaap Group in this area and follows conformably on the underlying rocks. The formation is divided into the Kuruman 41 and Danielskuil Formations. The uppermost chert of the Ghaap Group grades into banded iron formation of the Kuruman Formation which varies in thickness from 180 m to 240 m. It consistes of a succession of thin alternating layers of light coloured chert and jasper and dark coloured ferruginous jaspilite. The jaspilite contains mainly magnetite, haematite and limonite. A few thin layers of riebeckite-amphibolite and shale occur in places. The rock has well developed bedding plane cleavage and contains several crocidolite bearing zones. The basal layer of the banded iron formation lies on the dolomite of the Ghaap Plateau Formation in the Maremane anticline, is brecciated and ferruginised in places and constitutes the Blinkklip Breccia (Moen et al., 1977).

The "Main Marker" with a thickness of approximately 10m, lies conformably on the banded iron formation (BIF) and forms the base of the overlying jaspilite. It is characterized by an undulating structure and consists of brown jaspilite with thin magnetite layer and chert nodules. The overlying jaspilite attains a thickness of 150 m and contains several marker layers. Several "speckled markers" are present in the lower 40 m of the succession, of which only the upper one is indicated on the map. In the south a layer of eolithic chert with the appearance of quartzite is associated with the upper speckled marker. The two together are known as the quartzite marker. The intermediate quartzite maker occurs between lower speckled markers (Moen, 1977). The Gamagara Formation was deposited on the Maremane anticline and rests unconformably on dolomite and the BIF of the underlying strata Ghaap Plateau Formation. The succession consists of a basal conglomerate with pebbles of jasper and banded iron formation, shale and white to brown quartzite. The Makganyene Formation lies unconformably on the Gamagara Formation and has a maximum thickness of less than 480 m. Tillite occurs at the base of formation and contains fragments of black, white and red chert in a reddish brown sandy ground mass. Higher up in the succession, alternating layers of grit,

tillite, and silicified mudstone and feldspathic quartzite occur. Dolomite or limestone occur interbanded in mudstone (Moen et al., 1977).

The Ongeluk Formation forms the lower part of the Olifantshoek Group. The formation consists of greyish-green andesitic lava with amygdales and lenses of red jasper. The Voëlwater Formation overlies the Ongeluk Formation and has a thickness of 450 m. The lower beds are banded iron stone and banded red iaspilite with chert, dolomite and lava. The upper portion of the succession consists predominantly of dolomite with chert, banded jasper and lava (Moen et al., 1977). The Lucknow Formation occurs east of the Olifantshoek Group in the Korannaberg where the strata are disturbed by a number of faults Fig 5. It lies unconformably on the Voëlwater Formation and is absent in places in the north. The formation has a maximum thickness of 1500 m. The lower portion consists mainly of shale with subordinate layers of quartzite and lava and an upper portion of whitish quartize with lenses of flagstone and dolomitic limestone. The Hartley Formation, the upper part of Olifantshoek Group, follows conformably on the Lucknow Formation with a basal conglomerate containing pebbles of quartzite, jaspilite and lava. It is overlain by andesitic lava which contains amygdales, tuff, breccia and pebbles of quartzite (Moen et al., 1977). The Matsap Subgroup lie conformably on the Hartley Formation but in places is found unconformably on the Voëlwater Formation in the Korannaberg. Three members were recognized. They consist predominantly of sub-greywacke and purple, grey and brown quartzite with thin pebble beds and a layer of conglomerate in which quartz, banded iron formation and red jasper pebbles are abundant. The Brulsand Formation consists mainly of quartzite with subordinate shale and subgreywacke. Together with the Matsap Subgroup they form the Volop Group with a thickness of 500m (Moen et al., 1977).

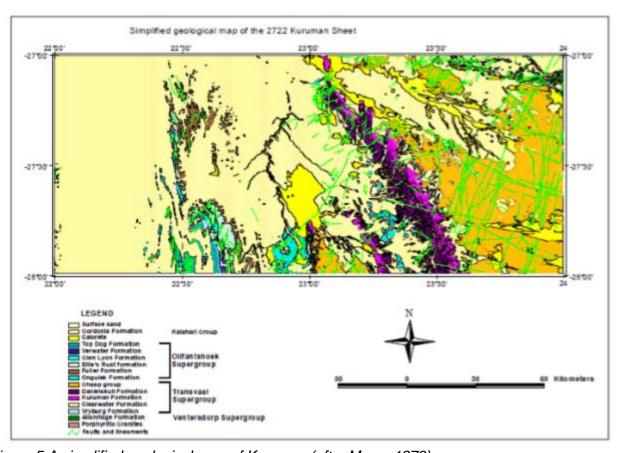


Figure:5 A simplified geological area of Kuruman (after Moen, 1979)

Table 6: Lithostratigraphic column of the Kuruman Area

STRATIO	GRAPHY			DESCRIPTION	MAGNETIC EVENT	
				Red to flesh-coloured wind-blown sand Rubble River-sand and gravel Surface limestone		
	BRULPAN	GPOLID	Groblershoop Fm	Quartzite, quartz-sericite schist		
OLIFANTSHOEK SUPERGROUP (±2 223-2 216 MA)	BROLPAN	Brulsand SBGRP	Top dog Fm Verwater Fm	White, grey and pink quartzite with subordinate brown subgreywacke Grey quartzite with nodule of and lenses of		
P. F.	4			haematite	kes	
SU	Ĭ Q	Matsap SBGRP	Glen Lyon Fm	Brown subgreywacke and conglomerate	Dolerite dykes	
NTSHOEK SUPERG (±2 223-2 216 MA)	VOLOP GROUP		Ellie's Rust Fm	Quartzite and subgreywacke		
H2	Ġ.		Fuller Fm	Quartzite, subgreywacke and conglomerate		
TZ Z	O _N	Hartley Fm		Andesitic lava with interbedded tuff,		
A .		,		agglomerate, quartzite and conglomerate		
10		Lucknow Fm		Quartzite, dolomitic limestone; shale and lava		
	~	Voëlwater SBGRP		Red jasper, dolomite, chert and lava		
	POSTMASBUR G GROUP	Ongeluk Fm		Amygdaloidal andelisitic lava with interbedded tuff, agglomerate, chert, red jasper	Basic lava	
_	POS ⁻	Makganyene Fm		Diamicite, banded jasper, siltstone, mudstone, sandtone grit and dolomite	B3 B3	
ROUP 1A)		Campbell Rand SBGRP	Monteville Fm	Dolomite; quartzite		
TRANVAAL SUPERGROUP (±2 224-2 219 MA)	ROUP	Asbestos Hills SBGRP	Danielskuil Fm	Yellow-brown jaspilite with crocidolite; conglomerate		
'AAL S	GHAAP GROUP		Kuruman Fm	Banded Iron formation, subordinate amphibolite, crocidolite, jaspilite and chert		
(±2	F9	Schmidtsdrif	Clearwater Fm	Conglomerate, chert ans dolomite, shale		
TRA		SBGRP	Boomplaas Fm	Oolitic and stromatic dolomite and dolomite with chert and quartzite lenses		
	Vryburg F	m	Quartzite, grit, cong	glomerate, shale amygdaloidal lava]	
VENTER MA)		PERGROUP (±2 714	Allanrigde Fm	Andesitic lava, amygdales and agglomerate	Andesitic lava	
Porphyr	ritic granite	(basement)	1			

Land Use

The land use and land cover of the area can be classified into three classes. These are: grazing land, **forest** and **bushveld** land. Most of the area is bare land, with thin soil layer between fractures and also covered by thin vegetation which was used for grazing by the farmers. The grazing land is on the flat land, which covers the whole area of the project area. Only small area is covered by forest which is found on the far North-Eastern part of the study area.

Soil Type

Soils are a significant component of most ecosystems. As an ecological driver, soil is the medium in which most vegetation grows and a range of vertebrates and invertebrates exist. In the context of mining operations, soil is even more significant if one considers that mining is a temporary land use where after rehabilitation (using soil) is the key to re-establishing post closure land capability that will support post closure land uses.

Mining projects have the potential to damage soil resources through physical loss of soil and/or the contamination of soils, thereby impacting on the soils' ability to sustain natural vegetation and altering land capability. Contamination of soils may in turn contribute to the contamination of surface and groundwater resources. Loss of the topsoil resource reduces chances of successful rehabilitation and restoration

The soil study indicate that the soil form associated with the BOTSHELO T AND G MINING RESOURCES (PTY) LTD is Hutton. The Hutton soil form comprises the following characteristics:

- homogeneous texture, structure, and soil depth;
- reddish brown a pedal sandy topsoil on yellowish red apedal sandy subsoil;
- low clay content; and
- it consists of deep
- (1.5m) windblown sand and therefore drains rapidly.

Climate

The area of interest is situated approximately 25 Km to Hotazel and about 100 Km to Kuruman. The climate is predominantly semi-arid with low rainfall and high evaporation. Climate plays a vital role in determining the availability of water resources, the nature of the natural landscape and vegetation types. Temperatures are high during the summer and low during the winter. The coldest months are experienced from June to August while the hottest months range from September to March. The average daily temperatures range from 18.5°C in June, to 35°C in January. The mean maximum average temperature during the summer months range from 27 to 34°C, while during the winter months the mean average minimum temperature range from between 5.6 and 7.4°C. The average rainfall is 427 mm. The area also experiences extreme events on a regular basis, including frost, hail, drought, and high speed winds. Prevailing winds are north-westerly with an average speed of 15km/h, between the driest and wettest months; the difference in precipitation is 73 mm. During the year, the average temperatures vary by 15.3 °C.

Climate can influence the potential for environmental impacts and related mine design. Specific issues include:

- rainfall could influence erosion, evaporation, vegetation growth, rehabilitation planning, dust suppression, and surface water management planning;
- temperature could influence air dispersion through impacts on atmospheric stability and mixing layers, vegetation growth, and evaporation which could influence rehabilitation planning; and
- wind could influence erosion, the dispersion of potential atmospheric pollutants, and rehabilitation planning.

Topography

The area is characterised by a flat topography with gentle slope towards the north west. The elevation is approximately 1107m. The terrain morphological class of the area can be described as plains with high relief, either moderately or strongly undulating. The area lies at an altitude of 1145 meters above sea level, with the highest elevations occurring in the east. Harts river flows eastward between the Project areas.

Ecology

The information below was obtained from Mucina & Rutherford, 2006,

On describing the existing status of any heritage environment that may be affected, according to the SAHRA's Palaeo Sensitivity map depicts that the area of interest is of a not so high sensitivity in orange colour (Desktop studies is required and based on the outcomes, the field assessment is likely to be conducted) and of low sensitivity in blue colour (no studies required). A specialist report will give a more accurate and comprehensive account of the Palaeontology of the area of interest.



Figure 6: SAHRA's Palaeo Sensitivity map

Flora

The region is dominated by the Savanna Biome. This biome is species rich and contains many threatened flora and fauna. The project area is situated within the North Eastern shrubveld grass which is characterised by bushveld. The shrubveld grass also occurs approximately 800m to the south east of the study area. The regional vegetation of the area is, however, used for grazing, mainly by cattle. A major factor delimiting the biome is the lack of sufficient rainfall which prevents the upper layer from dominating, coupled with fires and grazing, which keep the grass layer dominant. This ensures a sustained supply of low quality water into the rivers. The area was used for cattle-farming, it can thus be considered as effectively preserved.

The most distinctive trees in the area are the Camel Thorn (*Acacia erioloba*) and the Camphor Bush (*Tarchonanthus camphorates*). Other prominent trees are the Portly Baobab (*Adansonia digitata*) and the Candelabra tree (*Euphorbia ingens*).

<u>Fauna</u>

The wildlife on site and in the surrounding area is typical of disturbed Highveld region where all but the small animals such as hares, duikers, rodents, birds and insects have been eradicated. Rine Rabbit (*Bunolagus monticularis*) is found in limited habitats in the southern Karoo). It is regarded as one of the world's rarest mammals with an estimated adult population of less than 250. In August 2003, the Riverine Rabbit Program (EWT-RRP) was established to co-ordinate all conservation efforts of this species and its habitat The Northern Cape, especially the Kalahari, is a primary bird habitat. Raptors that occur include Black Eagle (*Aquila verreauxii*), Tawny Eagle (Aquila rapax), Black-breasted Snake Eagle (*Circaetus pectoralis*), Jackal Buzzard (*Buteo rufofuscus*), Pale Chnating Goshawk (*Melierax canorus*), Rock Kestrel (*Falco tinnunculus*) and Pygmy Falcon (*Polihierax semitorquantus*), etc.

Air Quality

The air quality of the pre-mining period is expected to have been of a better quality; however, the existing mines in the surrounding areas also contribute to the air quality degradation. The main

concern in this regard would however be dust from the proposed diamond mining settling on surrounding areas. However, a dust control plan will be implemented for the proposed project in order to control any possible nuisance dust that might give rise from the surrounding.

Wetlands

A wetland as defined by the National Water Act refers to land which is transitional between terrestrial and aquatic systems where the water table is usually at or near the surface, or the land is periodically covered with shallow water and which under normal circumstances supports or would support vegetation typically adapted to life in water saturated soil. However, there are no wetlands in the region surrounding the project area.

The proposed Project area is in a low rainfall area and Sandstone and congloromate are a prominent feature of the geology and result in considerable linkage between surface and ground water systems.

Hydrogeology

According to the Hydrogeological Map of the Republic of South Africa (Sheets 2722 – Kimberly 1:500 000) the main water bearing strata in the area is an intergranular and fractured aquifer made up of sandstone and conglomerate rocks.

According to the map, groundwater resources are generally limited, with sustainable borehole yields ranging from 0.6 - 1.7 l/s. The groundwater quality is thought to be good, with total dissolved solids (TDS) of less than 300 mg/l. In intergranular and fractured aquifers, the water occurs in both the upper weathered rock zone and the fractured but fresh rock formation below. These zones are in hydraulic contact. The regional aquifer system is defined as a Minor Aquifer System (Parsons, 2005) with low to moderate vulnerability to contamination. Minor Aquifer Systems can be fractured or potentially fractured rocks, which do not have a high primary permeability, or other formations of variable permeability. The aquifer extent may be limited and water quality may be variable. Although these aquifers seldom produce large quantities of water, they are important both for local supplies and in supplying base flow to rivers.

Local Hydrogeology - Two types of aquifer systems have been recognized in the Project area, represented by:

- Weathered Aquifer The Ecca sediments are weathered to depths between 5 15 metres below surface throughout the area. The upper aquifer, typically perched, is associated with this weathered zone and water is often found within a few metres of the surface (Hodgson, 2001). This aquifer is recharged by rainfall which infiltrates into the weathered rock and soon reaches an impermeable layer of shale, underneath the weathered zone. The movement of groundwater on top of this layer is lateral and in the direction of the surface slope (Hodgson, 2001).
- Fractured Aquifer The pores within the Ecca sediments are too well cemented to allow any significant permeation of water. All groundwater movement is therefore along secondary structures, such as fractures, cracks and joints. These structures are better developed in competent rocks such as sandstone, hence the better water-yielding properties of the latter rock type (Hodgson, 2001). It should, however, be emphasised that not all of the secondary structures are water-bearing. Many of these structures are closed due to compressional forces and the chances of intersecting a water-bearing fracture by drilling therefore decreases rapidly with depth. Water-bearing fractures with significant yields have been observed at depths of approximately 30 m; these boreholes would, however, have insufficient yields for organised irrigation (Hodgson, 2001).

Groundwater Levels and Flow Direction – Groundwater depths range from 0 to 150 mbgl. In general, groundwater follows the topographical setting of the area.

The regional groundwater flow direction appears to be to the south-west towards the vaal River. However, locally and on a small scale, flow directions can vary largely depending on topographic features.

Groundwater Recharge - According to the Groundwater Resources of the Republic of South Africa Map aquifer recharge in the area is between 50 - 75mm/a.

(b) Description of the current land uses.

The farm land in the broader region is mostly used for agriculture in the form livestock grazing, with many small-scale to medium-scale mining operations found throughout the region. The site is covered with indigenous vegetation of mixed shrubland/grassland, as well as alien bushtrees. There is also historic evidence of mining activities around the site, in the form of shallow holes and spoil heaps that have eroded with time. The majority of the land area is used for cattle grazing and, as such, is degraded from its natural state.

(c) Description of specific environmental features and infrastructure on the site.

Refer to the description above.

(d) Environmental and current land use map.

(Show all environmental, and current land use features)

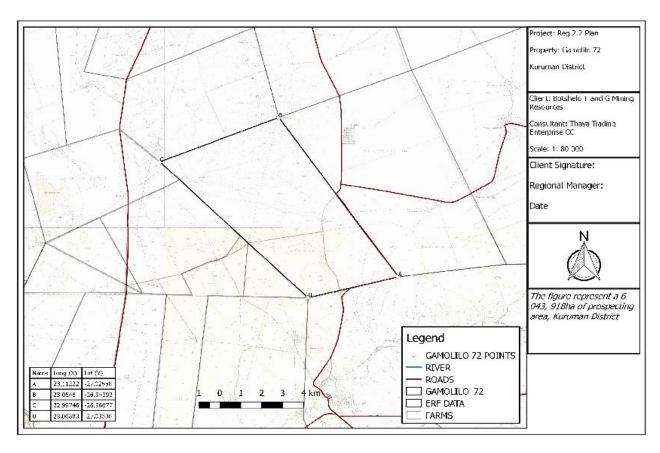


Figure 7: Current land use Map

v) Impacts and risks identified including the nature, significance, consequence, extent, duration and probability of the impacts, including the degree to which these impacts

(Provide a list of the potential impacts identified of the activities described in the initial site layout that will be undertaken, as informed by both the typical known impacts of such activities, and as informed by the consultations with affected parties together with the significance, probability, and duration of the impacts. Please indicate the extent to which they can be reversed, the extent to which they may cause irreplaceable loss of resources, and can be avoided, managed or mitigated).

Table 7: Potential impacts identified

	7: Potential impac			Duration	0	Management
Environmental Factor	Nature of impact	Signifi cance	Probability	Duration	Consequence	Management
Geology and mineral resource	Sterilisation of mineral resources.	Very low	Highly unlikely	Decommissi oning	Insignificant	Ensure that optimal use is made of the available mineral resource.
Topography	Changes to surface topography due to topsoil removal, excavations and placement of infrastructure and development of mine residue deposits.	Low to mediu m	Certain	Post- closure	Moderate	Backfill all excavations continuously and employ effective rehabilitation strategies to restore surface topography of excavations and plant site, and to stabilise the mine residue deposit.
Soils	Soil erosion by water and wind on disturbed and exposed soils; potential for dust production and soil microbial degradation; potential contamination soils due to spillages.	Low	Possible	Life of operation	Minimal	Employ appropriate management strategies to preserve soil resources.
Land capability	Loss of land capability through topsoil removal, disturbances and loss of soil fertility.	Very low	Possible	Short term	Minimal	Employ appropriate rehabilitation strategies to restore land capability.
Land use	Loss of land use due to poor placement of surface infrastructure and ineffective rehabilitation	Very low	Possible	Short term	Minimal	Carefully plan the placement of infrastructure and employ rehabilitation strategies to restore land capability.
Ground water	Pollution of underground water sources.	Low	Possible	Decommissi oning	Minimal	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.
Surface water	Deterioration in water quality through spillages	Low	Certain	Decommissi oning	Critical	Frequent monitoring of surface water resources (Standing water). Prevention of overspill of mine associated activities into the surrounding drainage channels streams. Implementation of the necessary management programs to ensure the integrity of surface water (Standing water) resources.
Indigenous flora	The clearance of vegetation; potential loss of floral species with conservation value; potential loss of ecosystem function.	Low to mediu m	Certain	Life of operation	Major	Prevention of overspill of mine associated activities onto the surrounding ecological environment. Employ proper protection and rehabilitation strategies.
Alien invasive plants	Proliferation of alien invasive plants species.	Low to mediu m	Certain	Decommissi oning	High	Eradicate, and control the spread, of alien invasive species.
Fauna	Displacement of fauna	Low	Possible	Life of operation	Minimal	Prevention of overspill of mine associated activities onto the surrounding ecological environment. Employ proper protection strategies.
Habitat	The loss, damage and fragmentation of floral and faunal habitats; potential loss of ecosystem function.	Low to Mediu m	Certain	Residual	Critical	Prevention of overspill of mine associated activities onto the surrounding ecological environment. Employ proper protection and rehabilitation strategies.

Air quality	Sources of atmospheric emission associated with the prospecting operation are likely to include fugitive dust from materials handling operations, wind erosion of stockpiles, and vehicle entrainment of road dust.	Low	Certain	Decommissi oning	Minimal	Effective soil management; identification of the required control efficiencies in order to maintain dust generation within acceptable levels.
Noise and vibration	Increase in continuous noise levels; the disruption of current ambient noise levels; and the disruption of sensitive receptors by means of increased noise and vibration.	Low	Certain	Decommissi oning	Minimal	Minimise the generation of excessive noise and vibration; Ensure all vehicles and equipment is in a good working order; proper communicatio n.
Visual impacts	Visual impact of the mine infrastructure , excavations, mine residue deposits, and waste rock stockpile; visibility of dust.	Low	Possible	Decommissi oning	Minimal	Effective planning of the location of infrastructure and operations to minimise visual impact.
Traffic	Potential negative impacts on traffic safety and deterioration of the existing road networks	Low	Low	Decommissi oning	Minimal	Utilise existing access roads, where applicable; implement measures that ensure adherence to traffic rules.
Heritage resources	The deterioration of sites of cultural and heritage importance.	Mediu m to High	Certain	Residual	Major	Preservation and protection of heritage and cultural resources identified within a no go zone; further resources uncovered during prospecting activities need to be reported to a suitably qualified Archaeologist and/or Palaeontologist.
Socio-economic	Negative: Loss of agricultural potential; influx of workers to	Low to mediu m	Certain	Short-term and Closure	High and Major	Application of commitments made in the Social and Labour Plan; implementation of

	the area increases health risks and loitering (resulting in lack of security and safety); negative impact of employment loss during mine closure.					community development programmes
Interested and affected parties		Low to mediu m	Possible	Decommissi oning	High	Ensure continuous and transparent communication with IAPs.

vi) Methodology used in determining and ranking the nature, significance, consequences, extent, duration and probability of potential environmental impacts and risks;

(Describe how the significance, probability, and duration of the aforesaid identified impacts that were identified through the consultation process was determined in order to decide the extent to which the initial site layout needs revision).

The criteria used to assess the significance of the impacts are discussed below. The criteria used to assess the significance of the impacts are shown in the table below. The limits were defined in relation to mining characteristics. Those for probability, intensity/severity and significance are subjective, based on rule-of-thumb and experience. Natural and existing mitigation measures were considered.

These natural mitigation measures were defined as natural conditions, conditions inherent in the project design and existing management measures, which alleviate impacts. The significance of the impacts was calculated by using the following formula:

(Severity +Spacial Scope + Duration) x Probability weighting

For the impact assessment, the different project activities and associated infrastructure were identified and considered in order to identify and analyse the various possible impacts. These include roads and hauling, excavations, temporary waste dumping, topsoil storage, mine residue deposit dam, plant and

processing area, temporary office, workshops and ablution facilities, water tanks, diesel tanks, pipeline, other temporary buildings, etc.

Significance of impacts is defined as follows:

No Impact – There will be no impact on the system or any of its parts.

Very Low – Impact would be negligible. Almost no mitigation and/or remedial activity would be needed, and any minor steps which might be needed would be easy, cheap and simple.

Low – Impact would have little real effect. Mitigation and/or remedial activity would be either easily achieved or little would be required or both.

Medium – Impact would be real but not substantial within the bounds of those which could occur. Mitigation and/or remedial activity would be both feasible and fairly easily possible.

High – Impacts of substantial order. Mitigation and/or remedial activity would be feasible but difficult, expensive, time consuming or some combination of these.

Very High – Of the highest order possible within the bounds of impacts which could occur. There would be no possible mitigation and/or remedial activity to offset the impact at the spatial or time scale for which was predicted.

Table 8:

Weight	Severity	Spatial Scope	Duration
1	Insignificant/non-harmful	Activity specific/No effect/Controlled	Immediate (0 – 6 months)
	MC-Caral (and Calle		Object to many to a constructions (O
2	Minimal / potentially	Slight permanent deviation	Short term / construction (6
	harmful	/	months- 1 yr)
		on-site	
3	Medium / slightly	Immediate surroundings /	Life of operation
	harmful	local / outside mine area	
4	High / Critical / Serious	Regional effect	Decommissioning
5	Catastrophic / major	National/ Severe	Residual
		environmental damage	
6	Disastrous	Trans boundary effects	Residual

Table 9:

Weight Number		1	2	3	4	5
Frequency						
Probability	Frequency of Impact	Highly unlikely	Rare	Low likelihood	Probable/ possible	Certain
		Practically impossible	Conceivable but very unlikely	Only remotely possible	Unusual but possible	Definite
	Frequency of Activity	Annually or less	6 monthly/temporarily	Infrequent	Life of operation	Life of operation

Table 10:

<u>ie 10:</u>															
	CONSEQUENCE														
	1		r	(S		ty + 5	Spatia	al Sco	pe +	Durat	ion)				
₽	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
of impact)	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30
	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45
nency	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60
frequ	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
activity + frequency	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90
L .	7	14	21	28	35	42	49	56	63	70	77	84	91	98	105
ILITY Icy of	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120
PROBABILITY (Frequency of	9	18	27	36	45	54	63	72	81	90	99	108	117	126	135
PRC (Fre	1	20	30	40	50	60	70	80	90	100	110	120	130	140	150

Table 11:

Colour Code	Significance Rating	Value	Negative Impact Management Strategy	Positive Impact Management Strategy
	VERY HIGH	126 – 150	Improve current	Maintain current
			management	management
	HIGH	101 – 125	Improve current	Maintain current
			management	management

MEDIUM – HIGH	76 – 100	Improve current	Maintain current
		management	management
LOW – MEDIUM	51 – 75	Improve current	Maintain current
		management	management
LOW	26 – 50	Improve current	Maintain current
		management	management
VERY LOW	1 - 25	Improve current	Maintain current
		management	management

vii) The positive and negative impacts that the proposed activity (in terms of the initial site layout) and alternatives will have on the environment and the community that may be affected.

(Provide a discussion in terms of advantages and disadvantages of the initial site layout compared to alternative layout options to accommodate concerns raised by affected parties)

During construction and operation of the prospecting operation, there is a possibility of sterilisation of the mineral reserves and resources due to improper placement of infrastructure. The infrastructure and slimes dam will alter the topography by adding features to the landscape. Topsoil removal and excavations will unearth the natural topography. The construction of infrastructure and various facilities in the mining area can also result in loss of soil due to erosion. Vegetation will be stripped in preparation for placement of infrastructure and excavations, and therefore the areas will be bare and susceptible to erosion.

Protected trees should be avoided as far as possible during invasive prospecting activities. Placement of small access roads and or any other associated infrastructure such as office area and storage areas should avoid slow-growing protected trees as far as possible. Areas with high density protected trees should be regarded as "sensitive" it should be mapped and avoided as far as possible. If protected trees cannot be avoided, a licence must be applied for and obtained prior to disturbance of such species.

A search and rescue of plants of special concern (i.e. endemic species; provincially protected or specially protected species; CITES listed species and TOPS listed species) prior to disturbance of natural vegetation will be done. Succulents such as Aloe species should be rescued and transplanted after obtaining the necessary Flora Permit from the Provincial Department of Environment and Nature Conservation (DENC).

The developer may also need a Flora Permit from the DENC for destruction of natural indigenous, protected or specially protected plant species under the Northern Cape Nature Conservation Act, Act 9 of 2009 (NCNCA). The same applies to TOPS or CITES listed plant species under the NEMBA. The topsoil that is stripped and piled on surrounding areas can be eroded by wind and rain. The soil will be carried away during runoff. The declared areas will be rehabilitation, but full restoration of soil might only occur over a number of years, subsequent to the re-establishment of vegetation. Furthermore, improper stockpiling and soil compaction can result in soil sterilisation. Leaching can also occur, resulting in the loss of nutrients.

During the construction and operation of the prospecting there is a possibility that equipment might leak oil, thus causing surface spillages. The hydrocarbon soil contamination will render the soil unusual unless they are decontaminated. The storage of fuels on site might have an impact on soil if the tanks that are available on site are 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.

The loss of land capability and land use can occur in two ways. Firstly, through topsoil removal, disturbances and loss of soil fertility; and secondly through the improper placement of infrastructure. The site has a land capability for grazing, but grazing activities can still be performed in areas not earmarked for mining, and with proper rehabilitation the land capabilities and land use potential can be restored.

If oil and fuel spillages occur, then it will seep into the underlying aquifers and contaminate ground water. Improper handling of hazardous material will cause contamination of nearby surface water resourced during runoff episodes. Lack of storm control structures will lead to erosion of stockpiles during heavy rains and runoff will carry suspended solids into the downstream environment. This might cause high silt load and affect stream flow.

Construction and mining activities on site will reduce the natural habitat for ecological systems to continue their operation. It is not expected that the areas of high ecological function will rehabilitation following disturbance events. Vehicle traffic generates lots of dust which can reduce the growth success and seed dispersal of many small plant species. It is expected that protected species will be destroyed during the prospecting operation.

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 plant establish in disturbed areas, it may cause an impact beyond the boundaries of the mining 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.

The transformation of natural habitats to mining 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 mining 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. The construction of the mine 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 metapopulations occurring within the site. Pockets of fragmental natural habitats hinder the growth and development of populations.

During the prospecting operation the abovementioned activities have potential for dust generation. It is anticipated that the extent of dust emissions would vary substantially from day to day depending on the level of activity and the specific operations. The prospecting will add a certain amount of noise to the existing noise in the area. However, levels of noise generated by prospecting activities are low.

The impact of site generated trips on the traffic of the existing roads is experienced to be low. Nevertheless, if road safety is not administered it can have a high impact on the safety of fellow road users.

The prospecting operation, especially during construction, will create a limited number of new employment opportunities. The magnitude of this impact will depend on the number of people that will be employed and the number of contractors sourced. An influx of people into the rural area will possibly impact on safety and security of local residents. During the decommissioning and at closure of the prospecting, staff will most likely be retrenched. This can potentially flood the job market, resulting in people being unable to find new employment for a long period of time. It is normally more difficult for people with highly specialised skills to find employment immediately. Those with fewer skills have more flexibility in the job market.

Economic slump of the local towns after mine closure is an associated potential impact although this will only be a prospecting operation. Income streams from wage bills as well as goods and services contracts (at all geographical levels) will come to an end, reducing the monetary income of individuals and mine-related businesses. People who have derived income directly or indirectly from the project may be inclined to leave the region in search of employment or business opportunities. This could result in further decline of the economy of the region as well as the abandonment of infrastructure. The loss of the mine workforce income will also impact upon non-mine related industries within the local and regional areas, particularly the rental property market and retail and service industries who would have received income during the life of mine from the salaried workforce.

It is likely, however that there will be residual positive economic impacts that are not fully reversed with the closure of the mine, and that the economy will not decline to its original level prior to the development of this project. This is because the mine will generate substantial income for the regional and local economy, both directly and indirectly, during its life.

It is difficult to predict the actual impact of the mine closure in advance, but it is acceptable to assume that the mine closure will have a negative impact on the local and regional economy with a high probability of occurrence, a high severity and a high significance.

Positive impact include employment and training opportunities for people in the local community and local contractors; social upliftment and community development programmes; economic benefits.

viii) The possible mitigation measures that could be applied and the level of risk.

(With regard to the issues and concerns raised by affected parties provide a list of the issues raised and an assessment/ discussion of the mitigations or site layout alternatives available to accommodate or address their concerns, together with an assessment of the impacts or risks associated with the mitigation or alternatives considered).

Geology and Mineral Resource

Level of risk: Very low

Proposed Mitigation measures

- Ensure that optimal use is made of the available mineral resource through proper planning of the prospecting operations.
- The prospecting should be well planned and delineated first and all infrastructure positions should be selected with the main aim of avoiding sterilization of future resources.
- No dumping of materials prior to approval by exploration geologist.

Loss of Vegetation and faunal habitat

Level of risk: Low to Medium

Proposed Mitigation measures

- Development planning must ensure loss of vegetation and disturbance is restricted to within the minimum and designated areas only.
- Vegetate and irrigate open areas to limit erosion, but take care not to promote erosion by irrigating.
- Removal of vegetation during construction and operation will be minimised to reduce the risk of excessive open areas occurring.
- Adhere to existing roads, and if new roads are constructed, these must not cross sensitive areas such as the ridges or drainage lines.
- Protected plant or animal species encountered must be managed in accordance with an accepted management plan for these species.

Topography

Level of risk: Low

- Backfill all trenches/excavations continuously.
- Employ effective rehabilitation strategies to restore surface topography of excavations and plant site.
- Stabilise the mine residue deposits.

• All temporary infrastructure will be demolished during closure.

Soil Erosion

Level of risk: Very low

Proposed Mitigation measures

- At no point may plant cover be removed within the no-development zones.
- All attempts must be made to avoid exposure of dispersive soils.
- Re-establishment of plant cover on disturbed areas must take place as soon as possible, once activities in the area have ceased.
- Ground exposure should be minimised in terms of the surface area and duration, wherever possible.
- The prospecting operation must co-ordinate different activities in order to optimise the utilisation of the excavated trenches and thereby prevent repeated and unnecessary excavations.
- Construction that required the clearing of large areas of vegetation and excavation should ideally occur during the dry season only.
- Construction during the rainy season (November to March) should be closely monitored and controlled.
- The run-off from the exposed ground should be controlled with the careful placement of flow retarding barriers.
- The soil that is excavated during construction should be stock-piled in layers and protected by berms to prevent erosion.
- All stockpiles must be kept as small as possible, with gentle slopes (18 degrees) in order to avoid excessive erosional induced losses.
- Excavated and stockpiled soil material are to be stored and bermed on theM higher laying areas of the footprint area and not in any storm water run-off channels or any other areas where it is likely to cause erosion, or where water would naturally accumulate.
- Stockpiles susceptible to wind erosion are to be covered during windy periods.
- Audits must be carried out at regular intervals to identify areas where erosion is occurring.
- Appropriate remedial action, including the rehabilitation of the eroded areas, must occur.
- Rehabilitation of the erosion channels and gullies.
- The prospecting operation should land with steep slopes.
- Dust suppression must take place, without compromising the sensitive water balance of the area.
- Linear infrastructure such as roads and pipelines will be inspected at least monthly to check that the associated water management infrastructure is effective in controlling erosion.

Generation of waste

Level of risk: Low to Medium

- All waste produced to be disposed of in permitted designated waste disposal site.
- Waste must be stored in designated areas for storage.
- Clearly demarcate and label appropriate storage for the different types of waste.
- Ensure regular removal of waste on site to prevent attraction of pests and disposal of waste in a permitted disposal site at a licenced landfill site.

Soil Pollution

Level of risk: Very low

- Refuelling must take place in well demarcated areas and over suitable drip trays to prevent soil pollution.
- Spill kits to clean up accidental spills from earthmoving machinery must be well-marked and available on site.
- Workers must undergo induction to ensure that they are prepared for rapid clean-up procedures.
- All facilities where dangerous materials are stored must be contained in a bund wall.
- Vehicles and machinery should be regularly serviced and maintained.

Land Capability and Land Use

Level of risk: Very low

Proposed Mitigation measures

- Ensure that optimal use is made of the available land through consultation with land owner and proper planning of prospecting activities.
- Surface agreement to be signed with land owners.
- Employ effective rehabilitation strategies to restore land capability and land use potential of the farm.
- All activities to be restricted within the demarcated areas.
- Ensure that land which is not used during construction is made available for grazing.

Groundwater

Level of risk: Very low

Proposed Mitigation measures

- Refuelling must take place in well demarcated areas and over suitable drip trays to prevent soil pollution.
- Spill kits to clean up accidental spills from earthmoving machinery must be well-marked and available on site.
- Workers must undergo induction to ensure that they are prepared for rapid clean-up procedures.
- All facilities where dangerous materials are stored must be contained in a bund wall.
- Vehicles and machinery should be regularly serviced and maintained.
- Monitor the quality of the boreholes located down-gradient of the mining site.
- Sample according to the sampling method and parameters for analysis is indicated in the Geohydrological study.

Surface Water

Level of risk: Very low

- Sufficient care must be taken when handling hazardous materials to prevent pollution.
- Under no circumstances may ablutions occur outside the provided facilities.
- No uncontrolled discharges from the staff camps to any surface water resources shall be permitted.
- If servicing and washing of the vehicles occur on site, there must be specific areas constructed for these activities, which must have concrete foundations, bunding as well as oil traps to contain any spillages.
- A walled concrete platform, dedicated store with adequate flooring or bermed area and ventilation must be used to accommodate chemicals such as fuels, oils, paints, herbicide and insecticides.
- Oil residue shall be treated with oil absorbent and this material removed to an approved waste site.
- Spill kits must be easily accessible and workers must undergo induction regarding the use thereof.
- At all times care should be taken not to contaminate surface water resources.

- Store all litter carefully to prevent it from washing away or blown into any of the water courses within the area.
- Provide bins for staff at appropriate locations, particularly where food is consumed.
- The prospecting site should be cleared daily and litter removed.
- Conduct on-going staff awareness programmes in order to reinforce the need to avoid littering, which contributes to surface water pollution.

Indigenous Flora

Level of risk: Low to medium

Proposed Mitigation measures

- Minimise the footprint of transformation.
- Encourage proper rehabilitation of mined areas.
- Encourage the growth of natural plant species.
- Ensure measures for the adherence to the speed limit.
- Footprint areas of the prospecting activities must be scanned for Red Listed and protected plant species prior to mining.
- It is recommended that these plants are identified and marked prior to mining.
- These plants should, where possible, be incorporated into the design

layout and left in situ.

- However, if threatened of destruction by mining, these plants should be removed (with the relevant permits from DAFF and DENC) and relocated if possible.
- A management plan should be implemented to ensure proper establishment of ex situ individuals, and should include a monitoring programme for at least two years after re-establishment in order to ensure successful translocation.
- All those working on site must be educated about the conservation importance of the fauna and flora
 occurring on site.

All Invasive Plants

Level of risk: Very low

Proposed Mitigation measures

- Minimise the footprint of transformation.
- Encourage proper rehabilitation of mined areas.
- Encourage the growth of natural plant species.
- Mechanical methods (hand-pulling) of control to be implemented extensively.
- Annual follow-up operations to be implemented.

Fauna

Level of risk: Very low

- Careful consideration is required when planning the placement for stockpiling topsoil and the
 creation of access routes in order to avoid the destruction of pristine habitats and minimise the overall
 mining footprint.
- The appointment of a full-time ECO must render guidance to the staff and contractors with respect to suitable areas for all related disturbance.

- The extent of the mine should be demarcated on site layout plans, and no construction personnel or
 vehicles may leave the demarcated area except those authorised to do so. Those areas surrounding the
 mine site that are not part of the demarcated development area should be considered as a no go zone
 for employees, machinery or even visitors.
- All those working on site must be educated about the conservation importance of the fauna and flora occurring on site.
- The ECO must ensure that all contractors and workers undergo environmental induction prior to commencing with work on site.
- The environmental induction should occur in the appropriate languages for the workers who may require translation.
- Reptiles and amphibians that are exposed during the clearing operations should be captured for later release or translocation by a qualified expert.
- Employ measures that ensure adherence to the speed limit.

Habitat

Level of risk: Low

Proposed Mitigation measures

- Prospecting activities must be planned, where possible in order to encourage faunal dispersal and should minimise dissection or fragmentation of any important faunal habitat type.
- The extent of the prospecting area should be demarcated on site layout plans (preferably on disturbed areas or those identified with low conservation importance). No construction personnel or vehicles may leave the demarcateda area except those authorised to do so.

Impact on health and safety of humans

Level or Risk: Low to Medium

Proposed Mitigation measures

- Training of workers in the correct use of the machinery and/or equipment so as to avoid incidents and training of personnel on compliance to Mine Health and Safety Act.
- Workers to wear Personal Protective Equipment (PPE).
- Hazardous material must be correctly labelled and handled in a safe manner.

Air Quality

Level of risk: Very low

- Vegetation must be removed when soil stripping is required only. These areas should be limited to include those areas required for prospecting only, hereby reducing the surface area exposed to wind erosion. Adequate demarcation of these areas should be undertaken.
- Control options pertaining to topsoil removal, loading and dumping are generally limited to wet suppression.
- Where it is logistically possible, control methods for gravel roads should be utilised to reduce the resuspension of particulates. Feasible methods include wet suppression, avoidance of unnecessary traffic, speed control and avoidance of track-on of material onto paved and treated roads.
- The length of time where open areas are exposed should be restricted. Prospecting should not be delayed after vegetation has been cleared and topsoil removed.
- Dust suppression methods should, where logistically possible, must be implemented at all areas that may/are exposed for long periods of time.

• For all prospecting activities management should undertake to implement health measures in terms of personal dust exposure, for all its employees.

Noise and Vibration

Level of risk: Very low

Proposed Mitigation measures

- Restrict prospecting activities to daytime unless agreements obtained to do 24hr operations.
- Systematic maintenance of all forms of equipment, training of personnel to adhere to operational procedures that reduce the occurrence and magnitude of individual noisy events.
- Where possible material stockpiles should be placed so as to protect the boundaries from noise to individual operations.
- Standardised noise measurements should be carried out on individual equipment at the delivery to
 site to construct a reference data-base and regular checks carried out to ensure that equipment is not
 deteriorating and to detect increases which could lead to increase in the noise impact over time and
 increased complaints.
- Environmental noise monitoring should be carried out at regularly to detect deviations from predicted noise levels and enable corrective measures to be taken where warranted.

Visual Impacts

Level of risk: Very low

Proposed Mitigation measures

- Infrastructure should be placed to optimise the natural screening capacity of the vegetation.
- Where practical, protect existing vegetation clumps during in order to facilitate screening during the prospecting operation.
- Remove rubble and other building rubbish off site as soon as possible or place it in a container in order to keep the mining site free from additional unsightly elements.
- Locate the staff camps and the material stockpiles outside of the visual field of sensitive visual receptors.
- Dust suppression procedures should be implemented especially on windy days during earth works.
- Rehabilitation should aim to establish a diverse and self-sustaining surface cover that is visually and ecologically representative of naturally occurring vegetation species.
- Implement a management plan for the post-mining site in order to control the invasion of alien vegetation and to manage erosion, until the site is fully rehabilitated.

Traffic and Road Safety

Level of risk: Very low

Proposed Mitigation measures

• Implement measures that ensure the adherence to traffic rules.

Heritage Resources

Level of risk: Medium to High

Proposed Mitigation measures

• The heritage and cultural resources (e.g. graveyards, ruins, historic structures, fossils etc.) must be protected and preserved by the delineation of a no-go zone if any of these areas are to be found in the prospecting area.

- Intact bedrock strata should be avoided during mining of terrace gravels where possible.
- Stone tools should be avoided where possible and fresh exposure should be recorded before destruction. All stone tool artefacts should be recorded, mapped and collected before destruction.
- Should development necessitate impact on any building structures, the developer should apply for a SAHRA Site Destruction Permit prior to commencement of construction.

Socio-Economic

Level of risk: Very low

Proposed Mitigation measures

- The mine must ensure that false expectations are not created regarding job creation.
- Jobs must be allocated as advertised and in so far as is possible to local inhabitants.
- Contractors and employees should not be permitted to wander outside the mining area.
- Uncontrolled settlement of contractors and workers outside of the site will be prevented.
- The expectations of what benefits can accure to the community must be managed from the initiation of the project.
- Commitments as set out in the SLP must be attained.

Interested and Affected Parties

Level of risk: Very low

Proposed Mitigation measures

- Maintain active communications with IAP's.
- Ensure transparent communication with IAP's at all times.
- IAP's must be kept up to date on any changes in the prospecting operation.
- A complaints management system should be maintained by the mine to ensure that all issues raised by community members are followed up and addressed appropriately.

Motivation where no alternative sites were considered.

The locality of the prospecting operation is based on the location of the possible Diamond, Iron Ore and Manganese Ore deposits that have been identified through extensive exploration activities. There is therefore no other alternative with regard to the overall operation footprint.

The location of the central prospecting site and associated infrastructure is primarily based on proximity to the access roads, proximity to the areas earmarked for prospecting and limited additional impact on the environment and heritage resource.

The prospecting activities and methodologies associated with diamond, iron and manganese ore mining (i.e. open pits with continued backfilling) is the only economic viable method currently being used by the diamond fraternity. There is no alternative prospecting method for the prospecting of diamonds. Noteworthy, diamond kimberlite, if encountered, will be dealt with accordingly.

ix) Statement motivating the alternative development location within the overall site. (Provide a statement motivating the final site layout that is proposed)

The site layout would have to be determined by taking into consideration factors such as specialist report inputs, spatial and practical mining operation aspects. Considering the nature of commodity of interest, security measures will be considered in order to determine the final site layout.

- i) Plan of study for the Environmental Impact Assessment process
- a) Description of alternatives to be considered including the option of not going ahead with the activity.

The option of not approving the activities will result in a significant loss of valuable information regarding the mineral status (in terms of Diamonds, Iron and Manganese Ores) present on these properties. In addition to this, should economical reserves be present and the applicant does not have the opportunity to prospect, the opportunity to utilize these reserves for future phases will be lost.

- b) Description of aspects to be assessed as part of the environmental impact assessment process
- c) Description of aspects to be assessed by specialists

Cultural and Heritage specialist studies may have to be conducted.

Proposed method of assessing the environmental aspects including the proposed method of assessing.

The environmental assessment aims to identify the various possible environmental impacts that could result from the proposed activity. Different impacts need to be evaluated in terms of significance and in doing so highlight the most critical issues to be addressed.

Significance is determined through a synthesis of impact characteristics which include context and intensity of an impact. Context refers to the geographical scale i.e. site, local, national or global whereas intensity is defined by the severity of the impact e.g. the magnitude of deviation from background conditions, the size of the area affected, the duration of the impact and the overall probability of occurrence. Significance is calculated as shown in the table below.

Significance is an indication of the importance of the impact in terms of both physical extent and time scale, and therefore indicates the level of mitigation required. The total number of points scored for each impact indicates the level of significance of the impact.

d) The proposed method of assessing duration significance

Impact Rating System

Impact assessment must take account of the nature, scale and duration of impacts on the environment whether such impacts are positive or negative. Each impact is also assessed according to the project phases:

- planning
- construction
- operation
- decommissioning

Where necessary, the proposal for mitigation or optimisation of an impact should be detailed. A brief discussion of the impact and the rationale behind the assessment of its significance should also be included. The rating system is applied to the potential impacts on the receiving environment and includes an objective evaluation of the mitigation of the impact. In assessing the significance of each impact, the following criteria are used:

Table 12: The rating system

NATURE		
		pact of environmental parameter being assessed in the context
		es a brief written statement of the environmental aspect being
	on by a particular actior	n or activity.
	IICAL EXTENT	
This is define		ch the impact will be experienced.
1	Site	The impact will only affect the site.
2	Local/district	Will affect the local area or district.
3	Province/region	Will affect the entire province or region.
4	International and	Will affect the entire country.
	National	
PROBABILI'	TY	
This describe	es the chance of occurr	
1	Unlikely	The chance of the impact occurring is extremely low (Less than
		a 25% chance of occurrence).
2	Possible	The impact may occur (Between a 25% to 50% chance of
		occurrence).
3	Probable	The impact will likely occur (Between a 50% to 75% chance of
		occurrence).
4	Definite	Impact will certainly occur (Greater than a 75% chance of
		occurrence).
DURATION		
This describe the proposed		npacts. Duration indicates the lifetime of the impact as a result of
1	Short term	The impact will either disappear with mitigation or will be
		mitigated through natural processes in a span shorter than the
		construction phase (0 – 1 years), or the impact will last for the
		period of a relatively short construction period and a limited
		recovery time after construction, thereafter, it will be entirely
		negated (0 – 2 years).
2	Medium term	The impact will continue or last for some time after the
		construction phase but will be mitigated by direct human action
		or by natural processes thereafter (2 – 10 years).
3	Long term	The impact and its effects will continue or last for the entire
		operational life of the development, but will be mitigated by
		direct human action or by natural processes thereafter (10 – 30
	<u> </u>	years).
4	Permanent	The only class of impact that will be non-transitory. Mitigation

	1						
		either by man or natural process will not occur in such a way or such a time span that the impact can be considered indefinite.					
INTENSITY/	MAGNITUDE						
Describes the	severity of an impact.						
1	Low	Impact affects the quality, use and integrity of the system/component in a way that is barely perceptible.					
2	Medium	Impact alters the quality, use and integrity of the					
		system/component but system/component still continues to					
		function in a moderately modified way and maintains general					
2	Lliab	integrity (some impact on integrity).					
3	High	Impact affects the continued viability of the system/ component and the quality, use, integrity and functionality of the system or					
		component is severely impaired and may temporarily cease.					
		High costs of rehabilitation and remediation.					
4	Very high	Impact affects the continued viability of the system/component					
		and the quality, use, integrity and functionality of the system or					
		component permanently ceases and is irreversibly impaired.					
		Rehabilitation and remediation often impossible. If possible					
		rehabilitation and remediation often unfeasible due to					
REVERSIBIL	ITV	extremely high costs of rehabilitation and remediation.					
		an impact can be auguspefully reversed upon completion of the					
proposed acti	ivity.	an impact can be successfully reversed upon completion of the					
1	Completely	The impact is reversible with implementation of minor					
	reversible	mitigation measures.					
2	Partly reversible	The impact is partly reversible but more intense mitigation measures are required.					
3	Barely reversible	The impact is unlikely to be reversed even with intense					
		mitigation measures.					
4	Irreversible	The impact is irreversible and no mitigation measures exist.					
	ABLE LOSS OF RESC						
activity.	es the degree to which	resources will be irreplaceably lost as a result of a proposed					
1	No loss of resource	The impact will not result in the loss of any resources.					
2	Marginal loss of	The impact will result in marginal loss of resources.					
	resource						
3	Significant loss of resources	The impact will result in significant loss of resources.					
4	Complete loss of	The impact is result in a complete loss of all resources.					
	resources	γ					
CUMULATIV	E EFFECT						
This describe	s the cumulative effec	t of the impacts. A cumulative impact is an effect which in itself					
		come significant if added to other existing or potential impacts					
emanating fro		rse activities as a result of the project activity in question.					
1	Negligible	The impact would result in negligible to no cumulative effects.					
	cumulative impact	The bound of the first of the f					
2	Low cumulative impact	The impact would result in insignificant cumulative effects.					
3	Medium cumulative	The impact would result in minor cumulative effects.					
	impact	1					
4	High cumulative	The impact would result in significant cumulative effects					
	impact	-					
SIGNIFICAN	CE						
Significance	Significance is determined through a synthesis of impact characteristics. Significance is an						

Significance is determined through a synthesis of impact characteristics. Significance is an indication of the importance of the impact in terms of both physical extent and time scale, and therefore indicates the level of mitigation required. The calculation of the significance of an impact uses the following formula: (Extent + probability + reversibility + irreplaceability + duration + cumulative effect) x magnitude/intensity.

The summation of the different criteria will produce a non-weighted value. By multiplying this value with the magnitude/intensity, the resultant value acquires a weighted characteristic which can be measured and assigned a significance rating.

Impact significance	Description

	rating	
6 to 28	Negative low impact	The anticipated impact will have negligible negative effects and will require little to no mitigation.
6 to 28	Positive low impact	The anticipated impact will have minor positive effects.
29 to 50	Negative medium impact	The anticipated impact will have moderate negative effects and will require moderate mitigation measures.
29 to 50	Positive medium impact	The anticipated impact will have moderate positive effects.
51 to 73	Negative high impact	The anticipated impact will have significant effects and will require significant mitigation measures to achieve an acceptable level of impact.
51 to 73	Positive high impact	The anticipated impact will have significant positive effects.
74 to 96	Negative very high impact	The anticipated impact will have highly significant effects and are unlikely to be able to be mitigated adequately. These impacts could be considered "fatal flaws".
74 to 96	Positive very high impact	The anticipated impact will have highly significant positive effects.

e) The stages at which the competent authority will be consulted

Consultation with the competent and commenting authorities will continue throughout the duration of impact assessment phase. The authorities will also comment on whether they deem it necessary to conduct any specialist studies. On-going consultation will include:

- Submission of the Scoping following a 30 day public review period (and consideration of comments received).
- Submission of the EIR following a 30 day public review period (and consideration of comments received).
- Arrangements will be made to discuss the report with the Environmental Officer responsible for the project during the review period.
- An opportunity to visit and inspect the site.
- f) Particulars of the public participation process with regard to the Impact Assessment process that will be conducted competent authority will be consulted
 - 1. Steps to be taken to notify interested and affected parties.

 (These steps must include the steps that will be taken to ensure consultation with the affected parties identified in (h) (ii) herein).

All registered I&APs and relevant State Departments will be given the opportunity to review the Scoping, EIR and EMP in accordance with EIA Regulatios. A minimum of 30 days commenting period will be allowed and all stakeholders and I&AP's will be given an opportunity to forward their written comments within that period. All issues identified during this public review period will be documented and compiled into a Comments and Response Report to be included as part of the Final EIR to be submitted to the Northern Cape Province Department of Mineral Resources.

2. Details of the engagement process to be followed.

(Describe the process to be undertaken to consult interested and affected parties including public meetings and one-on-one consultation. NB: the affected parties must be specifically consulted regardless of whether or not they attended public meetings and records of such consultation will be required in the EIA at a later stage).

The public participation process will be conducted strictly in accordance with EIA Regulations. The following three categories of variables will take into account when deciding the required level of public participation:

- The scale of anticipated impacts.
- The sensitivity of the affected environment and the degree of controversy of the project.
- The characteristics of the potentially affected parties.

the following public participation mechanisms will be used:

- Newspaper advertisement in local newspaper
- Site notices
- Direct notification of surrounding land owners and occupiers
- Circulation of scoping report
- Circulation of EIR
- Public participation meeting
- Direct notification to all stakeholders of the Environmental Authorisation given

3. Description of the information to be provided to Interested and Affected Parties.

(Information to be provided must include the initial site plan and sufficient detail of the intended operation and the typical impacts of each activity, to enable them to assess what impact the activities will have on them or on the use of their land).

The letter provided to I&AP's comprises of an activity, extent and location description, including a locality map of the proposed activity and a Dropbox link to the full Scoping report and Appendices. It also indicates where a hard copy of the report can be viewed or if the need arises for a copy of the report a request can be sent to the relevant EAP who will forward a CD containing all the relevant information.

g) Description of the tasks that will be undertaken during the environmental impact assessment process

Tasks to be undertaken

The following sections describe the tasks that will be undertaken as part of the EIA process.

Project Description

Further technical and supporting information will be gathered to provide a more detailed project description. This will include a detailed site layout plan that will be compiled once the low – medium areas of sensitivity have been indicated.

Location alternatives

This alternative asks the question, if there is not, from an environmental perspective, a more suitable location for the proposed activity. No other properties have at this stage been secured by Botselo T and G Mining Resources (PTY)LTD Communal Property Association near Kuruman area to potentially mine Diamond, Iron ore and Manganese ore.

Activity alternatives

The Scoping process also needs to consider if the development of a Diamond, Manganese and Iron Ore mine would be the most appropriate land use for the site.

Mining of other commodities – It is possible that kimberlite is present on these sites.

Botselo T and G Mining Resources (PTY) LTD has applied to prospect for Diamond, Iron ore and manganese ore.

Agriculture – Due to the site being arable & non-arable, in terms of crop production, all of the portions of the property are preferred.

Design and layout alternatives

Design alternatives were considered throughout the planning and design phase (i.e. where is the diamond bearing gravel located?).

No-go alternative

This alternative considers the option of 'do nothing' and maintaining the status quo. Should the proposed activity not proceed, the site will remain unchanged and will continue to be used for grazing and/or hunting.

Compilation of Environmental Impact Report

An EIR will be compiled to meet the content requirements as per EIR Regulations and will also include a draft Environmental Management Programme.

h) Measures to avoid, reverse, mitigate, or manage identified impacts and to determine the extent of the residual risks that need to be managed and monitored

Table 13: Table to mitigate impacts of activities

listed. (E.g. stockpil dams, transpo and bo offices, worksh storm roads,	Excavations, blasting, les, discard dumps or Loading, hauling and ort, Water supply dams oreholes, accommodation,	(e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air	(modify, remedy, control, or stop) through (e.g. noise control measures, stormwater control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activity etc. etc) E.g. Modify through alternative method. Control through noise control, Control through management and monitoring through rehabilitation.	POTENTIAL FOR RESIDUAL RISK
Impac and fle	cts on the fauna ora	Surface disturbance	Monitor through rehabilitation	Medium

Impacts on the air quality	dust	Dust Control	low
Impacts on the soil	Erosion	Storm water control	low
Impacts associated with the geology of the site	Fly rock	Blasting controls	Medium to High
Impacts on Cultural and Heritage Resources	Archaeological and Palaeontological Resources	Recommendations of Specialists and SAHRA	Medium to High
Impacts on ground and surface water	Ground and surface water contamination	Storm water control, avoidance	low
Impacts on visual landscape	dust	Dust control measures	low
Impacts on traffic volumes	dust	Dust control measures	low

i) Description of the tasks that will be undertaken during the environmental impact assessment process

- i) In compliance with the provisions of sections 24(4)(a) and (b) read with section 24 (3) (a) and (7) of the National Environmental Management Act (Act 107 of 1998), the EIA report must include the:-
- (1) Impact on the socio-economic conditions of any directly affected person. (Provide the results of Investigation, assessment, and evaluation of the impact of the mining, bulk sampling of diamond, iron and manganese ore prospecting on any directly affected person including the landowner, lawful occupier, or, where applicable, potential beneficiaries of any land restitution claim.

The prospecting activity will not impact directly on any socio-economic aspects. Indirect socio-economic benefits are expected to be associated with the creation of employment in the Northern Cape Province.

2) Impact on any national estate referred to in section 3(2) of the National Heritage Resources Act. (Provide the results of Investigation, assessment, and evaluation of the impact of the mining, bulk sampling of diamond, iron and manganese ores prospecting on any national estate referred to in section 3(2) of the National Heritage Resources Act, 1999 (Act No. 25 of 1999) with the exception of the national estate contemplated in section 3(2)(i)(vi) and (vii) of that Act.

The prospecting activity will avoid to a reasonably practicable extent to impact on any heritage estate referred to in section 3(2) of the National Heritage Resources Act. In terms of the National Heritage Resource Act no 25 of 1999. Heritage resources including archaeological and paleontological sites over 100 years old, graves older than 60 years, structure older than 60 years are protected. They may not be disturbed without a permit from the relevant heritage resource Authority, which means that before such sites are disturbed by development it is incumbent on the developer to ensure that a heritage impact assessment is done and the Provincial Heritage Resources Authority and SAHRA will be contacted immediately and work will stop.

k) Other matters required in terms of sections 24(4)(a) and (b) of the Act.

(the EAP managing the application must provide the competent authority with detailed, written proof of an investigation as required by section 24(4)(b)(i) of the Act and motivation if no reasonable or feasible alternatives, as contemplated in sub-regulation 22(2)(h), exist.

From a local perspective, the specific site has been chosen for its mineral resources thus making an alternative site selection null and void.

2) UNDERTAKING

-END-

The EAP nerewith confirms	
a)	the correctness of the information provided in the reports $\hfill \square$
b)	the inclusion of comments and inputs from stakeholders and I&APs ; $\hfill\Box$
c)	the inclusion of inputs and recommendations from the specialist reports where relevant; \hdots and
d)	that the information provided by the EAP to interested and affected parties and any responses by the EAP to comments or inputs made by interested and affected, parties are correctly reflected herein.
Zanes	
Signature of the environmental assessment practitioner:	
Thaya Trading Enterprise CC	
Name of company:	
Date:	