mineral resources

Department:
Mineral Resources
REPUBLIC OF SOUTH AFRICA

BASIC ASSESSMENT REPORT

AND

ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT

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 ACTIVITES THAT HAVE BEEN TRIGGERED BY APPLICATIONS IN TERMS OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (MPRDA) (AS AMMENDED)

NAME OF APPLICANT:	**Batho Pele Mining Coperative Limited**
TEL NO:	**074 064 9957**
FAX NO:	**N/A**
POSTAL ADDRESS:	**2687 Zone B, Ikhutseng, Kimberley, 8530**
PHYSICAL ADDRESS:	**2687 Zone B, Ikhutseng, Kimberley, 8530**
FILE REFERENCE NUMBER SAMRAD:	**NC 30/5/1/3/2/10974 MP**

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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 and Environmental Authorization 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 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 application.

It is therefore an instruction that the prescribed reports required in respect of applications for an environmental authorization 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 Authorization 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 gathered 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 the applicant.

2. OBJECTIVE OF THE BASIC ASSESSMENT PROCESS

The objective of the basic assessment process is to, through a consultative process –

(a) Determine the policy and legislative content within which the proposed activity is located and how the activity complies with the responds to the place and legislative context;

(b) identify the alternatives considered including the activity, location, and technology alternatives;

(c) describe the need and desirability of the proposed alternatives,

(d) through the undertaking of an impact and risk assessment process inclusive of cumulative impacts which focused on determining the geographical, physical, biological, social, economic, heritage and cultural sensitivity of the sites and locations within sites and the risk of impact of the proposed activity and technology alternatives on these aspects to determine

(i) the nature, significance, consequence, extent, duration, and probability of the impacts occurring to; and

(ii) the degree to which these impacts –
(aa) can be reversed

(bb) may cause irreplaceable loss of resources; and

(cc) can be managed, avoided or mitigated;

(e) 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 manage and monitored.

PART A

SCOPE OF ASSESSMENT AND BASIC ASSESSMENT REPORT

1. Contact person and correspondence address

1.1 Details of

1.1.1 Details of the EAP

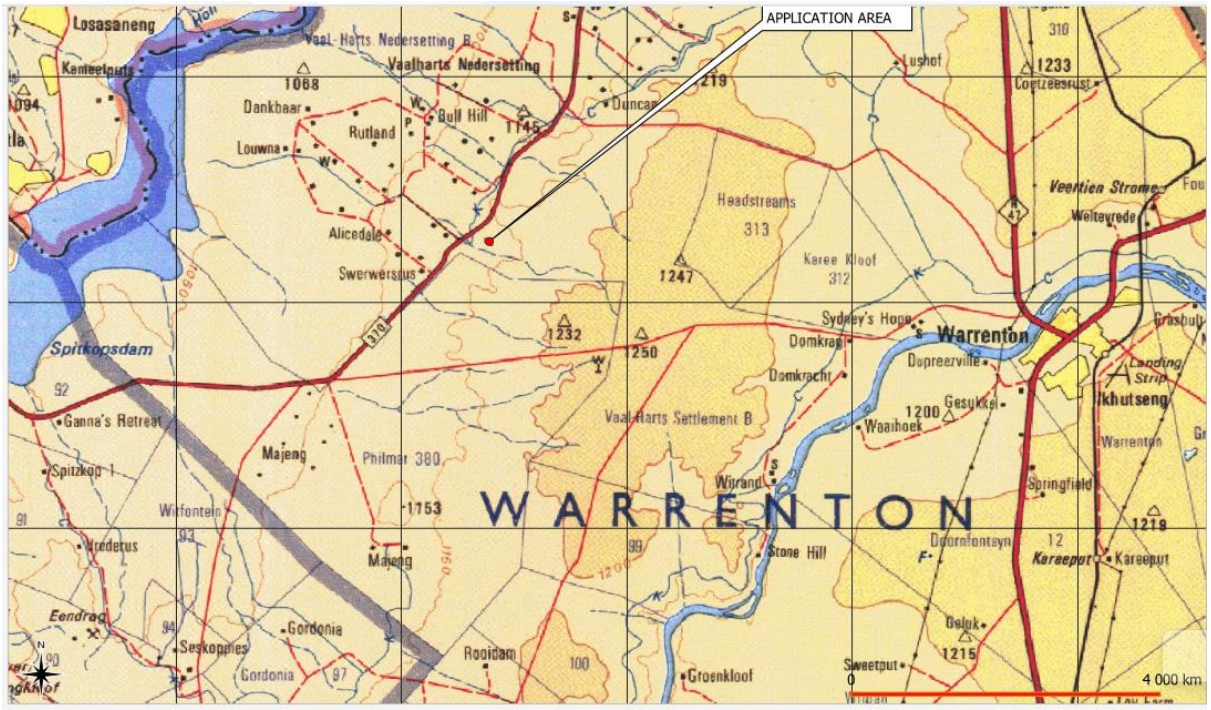
Name of the Practitioner: Kwindla Nobaza
Address: 9705, Eerste Land, Kathu, 8446
Tel no: 071 959 9207
Mobile: 072 141 4164
Fax No: 086 415 7897
e-mail address: khnobaza@gmail.com

2. Location of the overall Activity

Farm Name	A portion of Erf 760 Warrenton
Application area (Ha)	5 ha (five hectares)
Magisterial district:	Kimberley
Distance and direction from nearest town	Application area is situated at about 16 km west of Warrenton Town
21 digit Surveyor General Code for each farm portion	**0000C00700070000076900000 0**

3. Locality map

(Show nearest town, scale not smaller than 1:250 000)



4. 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)

Although all possible listed activities are included within the application, detailed plans of the operation cannot be given at this stage.

4.1 Listed and specified activities

NAME OF ACTIVITY **(E.g. For prospecting –** drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route **etc … etc … etc** **E.g. For mining –** excavations, blasting, stockpiles, discard dumps or dams, loading, hauling and transport, water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors **etc … etc … etc.)**	ARIAL EXTENT OF THE ACTIVITY HA OR M²	LISTED ACTIVITY Mark with an X where applicable or affected.	APPLICABLE LISTING NOTICE (GNR 544, GNR 545 or GNR 546)
Total Application	**± 5 ha**		
Mining	**< 4 ha**		

Excavations	< 3 ha	X X	NEMA GNR 983, Listed 1, Activity 21: Any activity including the operation of that activity which requires a mining permit … (a) associated infrastructure, structures and earthworks, directly related to the extraction of a mineral resource … NEMA GNR 983, Listed 1, Activity 27: The clearance of an area of 1 hectares or more, but less than 20 hectares of indigenous vegetation …
Topsoil and Overburden	<0.2 ha	X X	NEMA GNR 983, Listed 1, Activity 21: Any activity including the operation of that activity which requires a mining permit … (a) associated infrastructure, structures and earthworks, directly related to the extraction of a mineral resource … NEMA 2017, GNR 983, Listed 1, Activity 22: The decommissioning of any activity … (i) a closure certificate in terms of Section 43 of the MPRDA …

Ore dumps	< 0.30 ha	X	NEMA GNR 983, Listed 1, Activity 21: Any activity including the operation of that activity which requires a mining permit … (a) associated infrastructure, structures and earthworks, directly related to the extraction of a mineral resource …
		X	NEMWA 2015, GNR 633, Category A, Activity 15: The continuous establishment and reclamation of temporary stockpiles resulting from activities which require a … Mine Permit …
		X	NEMA 2017, GNR 983, Listed 1, Activity 22: The decommissioning of any activity … (i) a closure certificate in terms of Section 43 of the MPRDA …
Waste dumps	< 0.17 ha	X	NEMA 2017, GNR 983, Listed 1, Activity 21: Any activity including the operation of that activity which requires a mining permit … (a) associated infrastructure, structures and earthworks, directly related to the extraction of a mineral resource …
		X	NEMWA 2014, GNR 449, Category B, Activity 13: Inert waste … (c) discarded soil, stones …
		X	NEMA 2017, GNR 983, Listed 1, Activity 22: The decommissioning of any activity … (i) a closure certificate in terms of Section 43 of the MPRDA …

Stockpiles	<0.3 ha	X	NEMA GNR 983, Listed 1, Activity 21: Any activity including the operation of that activity which requires a mining permit … (a) associated infrastructure, structures and earthworks, directly related to the extraction of a mineral resource …
		X	NEMWA 2015, GNR 633, Category A, Activity 15: The continuous establishment and reclamation of temporary stockpiles resulting from activities which require a … Mine Permit …

		X	NEMA 2017, GNR 983, Listed 1, Activity 22: The decommissioning of any activity … (i) a closure certificate in terms of Section 43 of the MPRDA …
Mine Related infrastructure	**± 0.5499 ha**		
Office site	0.0025 ha	X	NEMA 2017, GNR 983, Listed 1, Activity 21: Any activity including the operation of that activity which requires a mining permit … (a) associated infrastructure, structures and earthworks, directly related to the extraction of a mineral resource …
		X	NEMA 2017, GNR 983, Listed 1, Activity 22: The decommissioning of any activity … (i) a closure certificate in terms of Section 43 of the MPRDA …

Processing plant	0.5 ha	X	NEMA 2017, GNR 983, Listed 1, Activity 21: Any activity including the operation of that activity which requires a mining permit … (a) associated infrastructure, structures and earthworks, directly related to the extraction of a mineral resource …
		X	NEMA 2017, GNR 983, Listed 1, Activity 21: Any activity including the operation of that activity which requires a mining permit … (b) the primary processing of a mineral resource including winning, extraction, classifying, concentrating, crushing, screening or washing …
		X	NEMWA 2014, GNR 449, Category B, Activity 11: Building and demolition waste … (e) other discarded building and demolition waste
		X	NEMA 2017, GNR 983, Listed 1, Activity 22: The decommissioning of any activity … (i) a closure certificate in terms of Section 43 of the MPRDA …

Ablution facility	0.0008 ha	X	NEMA 2017, GNR 983, Listed 1, Activity 21: Any activity including the operation of that activity which requires a mining permit … (a) associated infrastructure, structures and earthworks, directly related to the extraction of a mineral resource …
Vehicle parking	0.0358 ha		
Parking lot Wash bay Parts storeroom Scrap yard	0.02 ha 0.006 ha 0.0048 ha 0.005 ha	X	NEMA 2017, GNR 983, Listed 1, Activity 21: Any activity including the operation of that activity which requires a mining permit … (a) associated infrastructure, structures and earthworks, directly related to the extraction of a mineral resource ...
		X	NEMWA 2014, GNR 449, Category A, Activity 12: Oil wastes and wastes of liquid fuels … (a) waste hydraulic oils … (b) waste engine, gear and lubricating oils … (d) oil/water separator contents
		X	NEMWA 2014, GNR 449, Category B, Activity 13: Inert waste … (a) discarded concrete …
		X	NEMA 2017, GNR 983, Listed 1, Activity 22: The decommissioning of any activity … (i) a closure certificate in terms of Section 43 of the MPRDA …

Temporary workshop facility	0.005 ha	X	NEMA 2017, GNR 983, Listed 1, Activity 21: Any activity including the operation of that activity which requires a mining permit … (a) associated infrastructure, structures and earthworks, directly related to the extraction of a mineral resource …
		X	NEMWA 2014, GNR 449, Category A, Activity 20: Oil wastes and wastes of liquid fuels … (a) waste hydraulic oils … (b) waste engine, gear and lubricating oils … (d) oil/water separator contents …
		X	NEMWA 2014, GNR 449, Category B, Activity 13: Inert waste … (a) discarded concrete …

		X	NEMA 2017, GNR 983, Listed 1 Activity 22: The decommissioning of any activity … (i) a closure certificate in terms of Section 43 of the MPRDA …
Chemical and hydrocarbon fluid storage	0.0025 ha	X	NEMA 2017, GNR 983, Listed 1, Activity 21: Any activity including the operation of that activity which requires a mining permit … (a) associated infrastructure, structures and earthworks, directly related to the extraction of a mineral resource …
		X	NEMWA 2014, GNR 449, Category B, Activity 13: Inert waste … (a) discarded concrete …
		X	NEMWA 2014, GNR 449, Category A, Activity 12: Oil wastes and wastes of liquid fuels … (a) waste engine, gear and lubricating oils … (d) oil/water separator contents
		X	NEMWA 2017, GNR 983, Listed 1, Activity 22: The decommissioning of any activity … (i) a closure certificate in terms of section 43 of the MPRDA …

Diesel storage	0.0025 ha	X	NEMA 2017, GNR 983, Listed 1, Activity 21: Any activity including the operation of that activity which requires a mining permit … (a) associated infrastructure, structures and earthworks, directly related to the extraction of a mineral resource …
		X	NEMWA 2014, GNR 449, Category A, Activity 12: Oil wastes and wastes of liquid fuels … (d) oil/water separator contents
		X	NEMWA 2014, GNR 449, Category B, Activity 13: Inert waste … (a) discarded concrete …
		X	NEMA 2017. GNR 983, Listed 1, Activity 22: The decommissioning of any activity … (i) a closure certificate in tems of Section 43 of the MPRDA …

Domestic waste facility	0.0008 ha	X X	NEMA 2017, GNR 983, Listed 1, Activity 21: Any activity including the operation of that activity which requires a mining permit … (a) associated infrastructure, structures and earthworks, directly related to the extraction of a mineral resource … NEMWA 2014, GNR 449, Category B, Activity 12: Domestic waste … (b) municipal waste
Access and hauling roads	0.4 ha	X X	NEMA 2017, GNR 983, Listed 1, Activity 21: Any activity including the operation of that activity which requires a mining permit … (a) associated infrastructure, structures and earthworks, directly related to the extraction of a mineral resource … NEMA 2017, GNR 983, Listed 1, Activity 22: The decommissioning of any activity … (i) a closure certificate in terms of Section 43 of the MPRDA …

	Activity total
	Grouped activity
	Information unknown / Cannot be determined

4.2 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)

- Construction

  With actual mining operations being done in block format, vegetation clearing and site preparation for initial mining during the construction will approximately be 1.5149 ha (topsoil and overburden ~ 0.2 ha, Ore dumps ~ 0.3 ha, Waste dumps ~ 0.17 ha and stockpiles ~ 0.3 ha) with the mine related structures (Office site ~ 0.0025 ha, Processing plant ~ 0.5 ha, Ablution facility ~ 0.0008 ha, Vehicle parking ~ 0.0308 ha, Temporary workshop ~ 0.005 ha; Storage facility ~ 0.0025 ha, Diesel storage ~ 0.0025 ha, Domestic waste facility ~ 0.0008 ha, Access and hauling roads ~ 0.4 ha). These site will also be clearly demarcated as well as the different structures.

  The actual location of such structures can only be determined once the permit has been issued to ensure the least environmental damage possible.

- Operational

  The method of mining to be applied is opencast bench mining. Against the hills it will be mined from the top and on the flats, once the topsoil and overburden is stripped, as a sing bench varying in thickness up to 5 m.

  The material removed will be transported to the plant site where it will be scalped to remove all +120 mm material. This material will be broken up to -120 mm with a hydraulic Impact hammer mounted onto a 30 to 35 ton excavator.

  The scalped material will then be screened to remove all -60 mm material. The +60 mm will be crushed down to -60 mm material and the initial -60 mm material will be added and screened into -60+35 mm, -35+10 mm and -10+3 mm fractions (-3 mm will be considered fines). Each fraction will be stockpiled independently for washing purposes using a jig. All water used in the operation phase will be recycled as far as possible or treated to break chemicals down in their natural components before returned to the environment.

  Waste materials from the washing process will be transferred back to the mining areas on the flats where the mining is below the surrounding surfaces for backfilling purposes, together with the fines generated in the crushing and screening process. The processed ore will be stockpiled on the product floors from where it will be sold in fractions as initially screened.

  During the rehabilitation process backfilling occur in all areas mined below the surrounding surface of the land and waiting final rehabilitation. During final rehabilitation sloping of the backfilled excavation occur and the overburden and topsoil spread in their respective manner. A maintenance plan will be executed to ensure the successful re-growth of indigenous plant species.

- Decommissioning

  On decommissioning of the mining operations all rehabilitation on excavated areas will be finalized. The plant, all offices and storage buildings/structures will be removed and the area ripped to minimize the footprint left after such activities.

  All rehabilitated areas will undergo a care and maintenance period where the areas are regularly inspected for invader species. The latter will be removed to give the indigenous plant species a better change for successful re-growth

5. Policy and Legislative Context

APPLICABLE LEGISLATION AND GUIDELINES USED TO COMPILE THE REPORT (a description of the policy and legislative contect within which the development is proposed including an identification of all legislation, policies, plants, 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 COMPLY WITH AND RESPOND TO THE LEGISLTATION AND POLICY CONTEXT.** (E.g. In terms of the National Water Act a Water Use License has / has not been applied for)

No person may … mine … for and produce any mineral … or commence with any work incidental thereto on any area without – a … mine permit …	Section 5 (4)(b) of Act 28 of 2002 (MPRDA, 2002 read together with Section 5A (b) of Act 49 of 2008 (MPRDA, 2008)	An application has been lodged with the Department of Mineral Resources.
No person may … mine … for and produce any mineral … or commence with any work incidental thereto on any area without – an approved environmental management programme or approved environmental management plan, …	Section 5 (4)(a) of Act 28 of 2002 (MPRDA, 2002)	This document serves as the Basic Environmental Assessment and Environmental Management Programme
An environmental impact assessment report must contain all information that is necessary for the competent authority to consider the application and to reach a decision contemplated in Regulation 35, and must include - …	Regulation 31(2) of Act 107 of 1998 (NEMA, 1998)	These guidelines and provided template is used in conducting this assessment.
A person who is required or wishes to obtain a license to use water must apply to the relevant responsible authority for a license	Section 40(1) of Act 36 of 1998 (NWA, 1998)	Water use license is in the process of being considered and being applied for
Waste resulting from … mining … and physical … treatment of minerals	Section 18 (Category A) of Act 26 of 2014 (NEMWA, 2014)	Drafted and included into the Basic Environmental Assessment and Environmental Management Programme

6. 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).

The application area falls within the western part of Warrenton town

The project area is approximately 16 km west of Warrenton which is cituated 70 k from Kimberley. The majority of the population within the Magereng Municipal area is Black African people contributing 80% to the total population of 24 204 people (Wikipedia) with

the other about less than 15 % consisting of Coloured people. To further break the statistics down for the motivation on this project 50% of the total population is of working age from which a staggering approximate value of 30% are un-employed with an your unemployment rate of 32.3% receiving no basic income with a further ± 50% of the working age population receiving a basic salary of R 2 500.00 or less per month.

The development of a feasible mine will aid in the regions poverty eradication and unemployment statistics. Social upliftment through work security will not only have an effect on local level, but also district level by means of economic growth.

7. Motivation for the overall preferred site, activities and technology alternative The proposed project area is demarcated to include the ore bodies as well as enough space for the possible construction of the mine related structures and processing plant. An alternative location to the mine related structures and/or plant site are planned, but may result in the transportation of materials creating more noise disturbance and possible air quality loss.

The activities and technology used is planned and designed to create and cause the minimal disturbance possible. Although the alternative regarding the plant site, mineral process and mining related structures is to use will be a hired plant, already established during the prospecting operation, this Basic Assessment Report / Environmental Management Programme will be drafted as if all mining related structures will be implemented for this project. No other alternatives in regard to preferred site, activities and technology is considered as the current planning is the best possible option at this stage to ensure minimal environmental disturbance and cost effective mining operations.

8. Full description of the process followed to reach the proposed preferred alternatives within the 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.

During the planning of the proposed mining operations, taking the commodity bodies and environmental sensitive features into consideration the only alternatives that could be explored was towards the mining related structures and processes.

These structures must be planned outside any environmental feature and their respective buffer zones as well as trying to minimize the footprint and environmental disturbance. Further alterations will be explored during the operations as the need arise.

8.1 Details of the development footprint alternatives considered

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

8.1.1 the property on which or location where it is proposed to undertake the activity 8.1.2 the type of activity to be undertaken 8.1.3 the design or layout of the activity 8.1.4 the technology to be used in the activity 8.1.5 the operational aspects of the activity; and 8.1.6 the option of not implementing the activity

All of the following mining and mining related activities that occur and have its specified footprint within the project area as applied for at the Department of Mineral Resources.

Detailed and more accurate plans will be submitted to all relevant Departments before commencement or construction of any of the activities described below.

- Mining / Excavations ○ A total approximate area of 3 hectares will be excavated to remove all possible diamond bearing gravel ore over a period of 2 years with additional 3 years of renewal.

    - The technology used in this activity will be 1 x Excavator, equipped with rock breaker, 1 x 60 ton excavator and 3 x 40 ton ADT's.

    - Diamond bearing gravel will be excavated for mining purposes. The topsoil and overburden is removed and stored near the excavation for ease of rehabilitation activities. The ore is excavated and transported to the plant site for screening and crushing activities.

    - This activity is the most critical part of the proposed mining activities and therefor the option of not implementing the activity cannot be considered.

- Topsoil and overburden dumps ○ All topsoil and overburden material removed is stored in close proximity of the excavation for rehabilitation purposes

    - No technology will be used in this activity other than dumper trucks transporting the material from the excavation and back during rehabilitation.

    - If this activity is not implemented mining activities cannot continue and/or rehabilitation activities haltered. For this reason the option of not implementing the activity cannot be considered.

    - If this activity is not implemented mining activities cannot continue fluently affecting the cost effectiveness of the mining operations. For this reason the option of not implementing the activity cannot be considered, but an alternative being considered is the use of the plant and plant site constructed for Batho Pele Mining Cooperative.

- Waste dumps ○ Waste rock will be hauled from the various mining processes and stored separate from the stock dumps, but still in the same region. The specific design of this activity is dependent on the amount of waste rock generated during the activities

    - No technology will be used within this activity and this is only the storing of waste rock material.

    - The operational aspects of the activity is the storing of waste rock till the removal thereof, usage in mining related features or rehabilitation of excavated areas.

    - The option of not implementing the activity is ruled out by the fact that waste rock is a by-product of any mining activities and must be stored till usage or rehabilitation of the mining areas.

- Stockpiles ○ All ore material processed (55%+ Fe) is stored according their different size and grade classification for ease of reference and transport of commodity from the property.

    - No technology will be used in this activity other than front-end loader, dumping the ore in their different categories and/or loading the ore material onto transport trucks.

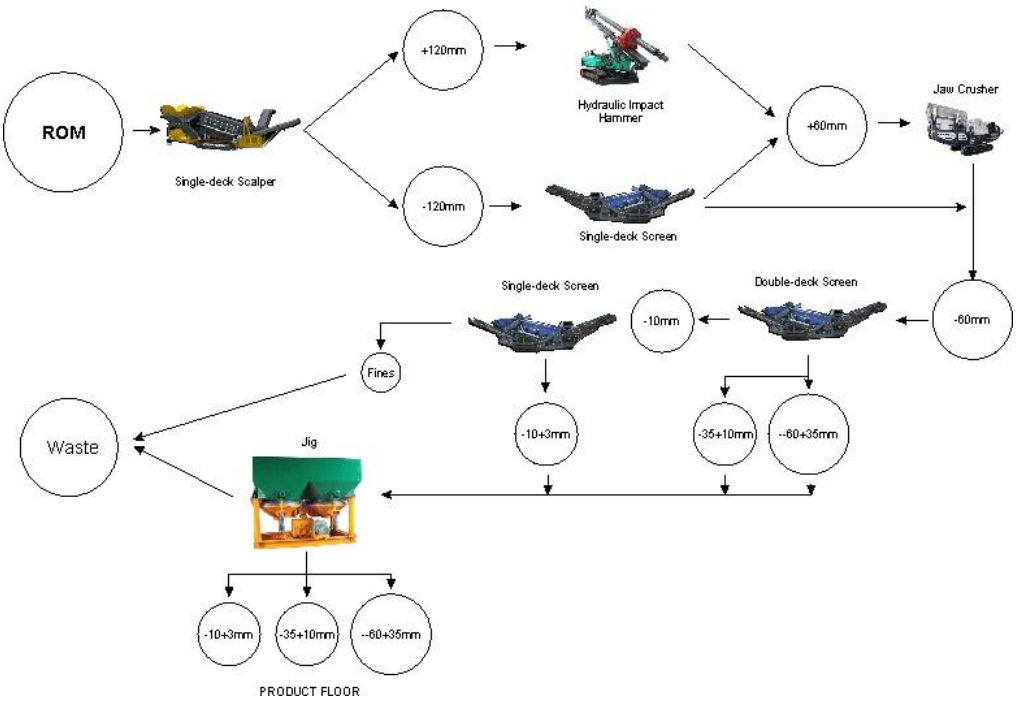
    - If this activity is not implemented mining and transporting activities cannot continue fluently affecting the cost effectiveness and production line of the mining operations. For this reason the option of not implementing the activity cannot be considered.

- Plant site the processing plant site (approximately 0.5 ha in footprint) shall be demarcated with berms to indicate the allowed area for movement. Equipment used within this site will be installed in an almost inline manner for sufficient and effective mineral processing operations.

    - The technology used for the mineral processing are: 2-way mobile Scalper, mobile Jaw Crusher, 2-deck mobile Screens, 1 Single-deck Screen, 30 ton Excavator equipped with rock breaker, Loaders, Generator and ± 450 m^3/hr Jig.

    - The ore material removed and transported to the plant site will be scalped to remove all +120 mm material. This material will be broken up to -120 mm with a hydraulic Impact hammer mounted onto a 30 to 35 ton excavator.

      The scalped material will then be screened to remove all -60 mm material. The +60 mm will be crushed down to -60 mm to break loos the -40 mm Fe (interlayered waste) material. The initial -60 mm material will be added and screened into -60+35 mm, -35+10 mm and -10+3 mm fractions. Each fraction will be stockpiled independently for washing purposes by using a jig. The jig will be used to separate the -40% Fe, in the process upgrading the material to ±55% Fe.



- The option of not implementing this activity is regarded as a no-go as this activity is one of the core processes in any diamond mining operation.

- Office site ○ The office block will be installed and have an approximate footprint of 0.0025 ha. This site will house several units including general office, mine health and safety office and fist air room.

  - The office site will be mobile offices / Wendy house fitted with the relevant equipment/furniture for its specific task.

  - All administrative activities, storing of files, mine financials and discussions will be occurring within this facility.

  - It is of the projects utmost interest to have offices on site from where operations can be monitored and managed. Should the operations be managed from outside the project area delays and misunderstandings may occur haltering the successfulness of the project. For the reason the option of not implementing the activity cannot be considered

- Ablution facility ○ Chemical toilet facilities (with a total footprint of approximately 0.008 ha), separating male and female employees, will be installed on site.

  - Contractual agreements will be made and basic flushing chemical toilets installed. Within the female facility will sanitary bins be provided for their specific needs and emptied on a daily bases.

  - These facilities are to support the sanitation protocol of the mine. These facilities will be readily available for personal use as needed.

- The implementation of this structure and related activities is absolutely compulsive and enforced by the Basic Conditions of Employment Amendment Act, 2013 (Act 20 of 2013) in conjunction with the Basic Conditions of Employment Act, 1997 (Act 75 of 1997), Basic Conditions of Employment Amendment Act, 2002 (Act 68 of 2002) and Basic Conditions of Employment Amendment Act, 2003 (Act 52 of 2003).

- Vehicle parking ○ The parking area (approximately 0.0358 ha) will be a demarcated area situated next to the office block and storage area. This area include the vehicle parking lot (200 m²), constructed wash-bay (approximately 10 x 6 m), automotive parts storeroom (12 x 4 m) and a scrap yard 25 x 25 m. The area will also be cleared of all vegetation leveled and paring zones demarcated either with berms or waste rock.
    - Wash bay
        - The wash bay is planned to be constructed at the vehicle parking area. The floor must be constructed at a gradient with a channel at the lowest side relaying water and oils to a run-off sump from where it will be pumped in containers and discarded in the appropriate manner

        - This facility should be equipped with all the necessary equipment and stock for the daily trade activities of washing equipment and vehicles

        - This facility serves as a secured working space where equipment and vehicles can be cleaned for maintenance purposes

        - The option of not implementing this activity is not the best option to consider as the mine's heavy vehicles interior and engine compartments needs to be washed from time to time to ensure maximum performance and minimal maintenance costs.

    - Part storeroom
        - The parts store room is planned to be constructed near the workshop. This should be a close facility with the option of a door that can be locked.

        - This facility will be equipped with most to all the necessary automotive and equipment parts for the daily maintenance and repair activities for overall mine maintenance

        - This facility serves as a secured storage facility for parts and equipment needed for the employed tradesmen to be able to optimally perform their daily tasks.

- The option of not implementing this activity is not the best option to consider as if the basic and necessary parts are not available it must be obtained within the town that may proof to be difficult, expensive and time consuming.

▪ Scrap yard
- The scrap yard is planned to be constructed at the vehicle parking area near the workshop. This facility should be cleared of all vegetation and fenced-off.

- Equipment necessary within this facility is drip-trays and leak-proof containers for old chemical containing parts.

- This facility will be utilized for the neat storing of scrap metal and related waste materials till the safe removal thereof.

- Should this activity not be implemented scrap metal and related waste will be left scattered within the mining footprint which is turn pose a huge risk toward human and environmental health and safety.

o Drip pans will be readily available for vehicles during off-time. No other technologies will be sued during this activity

o The parking area will be sectioned and demarcated for the various activities. All mine vehicles, visitors' vehicles, employee vehicles and heavy vehicles will be parked in this area within their different sections. All vehicles will however by required to adhere to the reversed parking policy for the safety of all vehicles in the case of an emergency.

o Should this activity not be implemented pollution and chemical spill control cannot be optimally managed as well as the informal parking of other normal vehicles can lead to a difficult driving environment for heavy vehicles. For this reason and legislative requirements this activity cannot be excluded as a mining related activity.

• Temporary workshop facility o The workshop is planned to be constructed with a footprint of 0.005 ha. The workshop should be a closed facility with the option of a door that can be locked, but can also take the form of a barnlike structure. The floor however must be constructed at a gradient with a channel at the lowest side relaying water and oils to a run-off sump from where it will be pumped in containers and discarded in the appropriate manner.

o This facility should be equipped with all the necessary equipment and stock for the daily trade activities of mechanical maintenance, electric maintenance, plumbing, boiler making, fitting and turning and all other related activities needed on the mine.

o This facility serves as a secured working space for mine employed tradesmen containing all the necessary equipment to their disposal for optimally performing their job.

- The option of not implementing this activity is not the best option to consider as tradesmen and a workspace for them are an essential part of mining and mining related activities. If this activity is not implemented, maintenance, rectifying and building of certain materials and equipment will need to be done within the town that may proof to be difficult, expensive and time consuming.

- The option of not implementing this activity is not the best option to consider due to the activity of correct storing of chemicals is legislatively required by specific regulations within the Mineral and Petroleum Resources Development Act and National Environmental Management act regarding the storing of environmental hazardous chemicals.

• Diesel storage ○ One diesel tank with its bunker bay (total capacity of 110%) and refueling concrete floor, with an approximate footprint of 0.0025 ha, will be installed on the mine.

- The technology used shall be of the highest standards provided by the contracting diesel/fuel agency. It is compulsive that the mine is supplied with a diesel tank already equipped with a leak-proof bay to prevent any ground contamination should the tank be leaking by fault or bursting

- Diesel will be kept within these containers for refueling purposes during the mining activities. The contracting agency will be refilling the tank on a regular basis and only then will the tank be inspected and maintenance procedures carried out.

  Machinery will be parked on a cement slap next to the tank for re-fueling activities. This cement slap shall be constructed at a gradient with a run-off channel leading to a sump for impact prevention should any accidental spillage occur. The sump will also be cleaned and maintained on a regular basis by the contracting agency

- Taking the relative rural setting of the project into consideration a no-go option to this activity was eliminated. The reason for such is that should there be no diesel available for the re-fueling on site these huge mining vehicles must go into town for their re-fueling needs that will lead to the breakdown of these equipment (as they are not manufactured for long distance driving), traffic congestions, trampled roads and possible major accidents that could have been avoided as well as being time consuming leading to non-feasible mining.

• Domestic waste facility ○ The domestic waste facility (approximate footprint of 0.0008 ha) will be installed at the office sites.

- The technology used shall be of local municipal standard including a tip-proof and scavenger proof bin. Agreements with the local municipality or local waste

removal contractors will be signed for the removal of waste on a scheduled basis

- All domestic waste on site will be placed within these bins to keep the area clean and litter free

- The option of not implementing the activity can be taken into consideration and should the activity not be implemented a greater risk of littering results.

- Access and hauling roads. ○ The location and amount of mine roads will be finalized during final Mine planning and the construction phase. The exact footprint of these roads are unknown as it may vary due to final mine planning and the need of relocating planned roads.

  - No foreign materials will be used in the construction of these roads. The roads will be scraped to specific measures and maintained on a regular basis. During maintenance may the roads be sprayed with non-polluting substance mixed in water to chemically bound dust particles to aid in dust reduction and even in some cases prevention.

  - The roads will be mainly used for mine traffic such as hauling of materials to different sites, employee travelling from one site to another etc.

  - Should mine roads not be implemented and vehicles are allowed to travel how they please trampling of natural vegetation is a given factor leading to greater environmental degradation than the construction of these hauling roads. For this reason the option of not implementing the activity is ruled out in order to protect the surrounding environment as far as possible.

8.2 Details of the Public Participation Process followed

(Describe the process undertaken to consult interested and affected parties including public meeting and one on one consultation. NB! the affected parties must be specifically consulted regardless of whether or not they attended public meeting. (Information to be provided to affected parties must include sufficient detail to the intended operation to enable them to assess what impact the activities will have on them or on the use of their land.))

The process undertaken to consult Interested and Affected parties will be as follows:

- Registered letters will be sent to all interested and affected parties to inform them of the proposed mining activity, a summary of the operation or the Basic Assessment Report / Environmental Management Programme accompanying this letter as well as a form for them to complete and register as an Interested and/or Affected party with some space for comments and a telephone number of the consultant for them to raise any concerns within 30 days from the date of the letter.

- Advertisements regarding the proposed activity will be published in the local and regional newspaper for all to be seen, with the contact details of the consultant for comment, concerns and information

- Affected parties will be consulted on a one-to-one basis, on request, to discuss the concerns and recommendations regarding the project's impact on the environment.

- A public meeting was held on the 8th of August 2022, the attached proof of attendance as annexure. DFA advert on the 5th of August 2022 and registered letter sent to IAPs.

- All of information is attached to this BAR report as annexures.

8.3 Summary of issues raised by I&AP's

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

INTERESTED AND AFFECTED PARTIES List the names of persons consulted in this column, and mark with an **X** where those who must be consulted were in fact consulted		**DATE COMMENTS RECEIVED**	**ISSUES RAISED**	**EAP's 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					
Magareng Local Munipality					
Lawful occupiers/s of the land					
Landowners or lawful occupiers on adjacent properties					
Municipal councilor **Municipality:**					
Magareng Local Municipality					
Organs of state (Responsible for infrastructure that may be affected Roads Department, Eskom, Telkom, DWA))					
Dept. of Water Affairs and Sanitation					
South African Heritage Resources Agency					

Communities					
Dept Land Affairs					
Dept. Agriculture, Land Reform and Rural Development					
Traditional Leaders					
Dept Environmental Affairs					
Dept. of Environment and Nature Conservation					
Other Competent Authorities affected					
Department of Public Works					
Dept. of Agriculture, Forestry and Fisheries, Eskom, Transnet					
OTHER AFFECTED PARTIES					
INTERESTED PARTIES					

8.4 The Environmental attributes associated with the alternatives

(The environmental attributed described must include socio-economic, social, heritage, cultural geographical, physical and biological aspects)

8.4.1 Baseline Environment

8.4.1.1 Type of environment affected by the proposed activity

(its current geographical, physical, biological, socio-economic and cultural character).

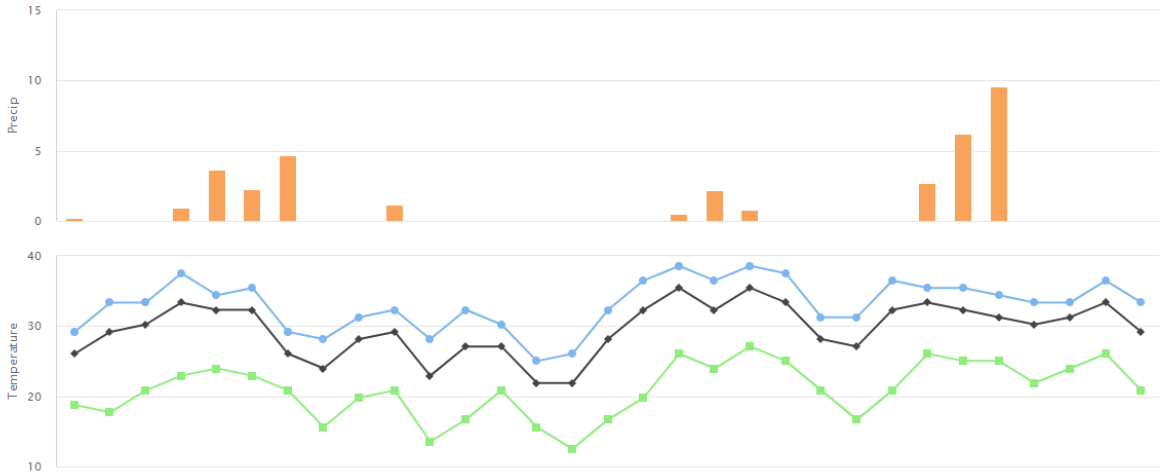
- Geographical environment:
  - Geographical location:

    The proposed project area is situated within the Northern Cape Province, west of the town Warrenton.

  - Climate and rainfall:

    The weather provides hot summers and cold dry winters with rains during summer (December to February). It is not unusual for the winter night time temperatures to drop below freezing.

    With the extraordinary wet season the Northern Cape experienced during the summer of 2020/2021, average data will rather be used. Temperature data for the region range from 18°C in June to 32°C in January. The region is the coldest during June/July when the temperatures drops to 2°C on average during night.



The project area further falls within the summer rainfall area with a mean annual average of 365 mm, indicating January and February as the wettest months and July as the driest.

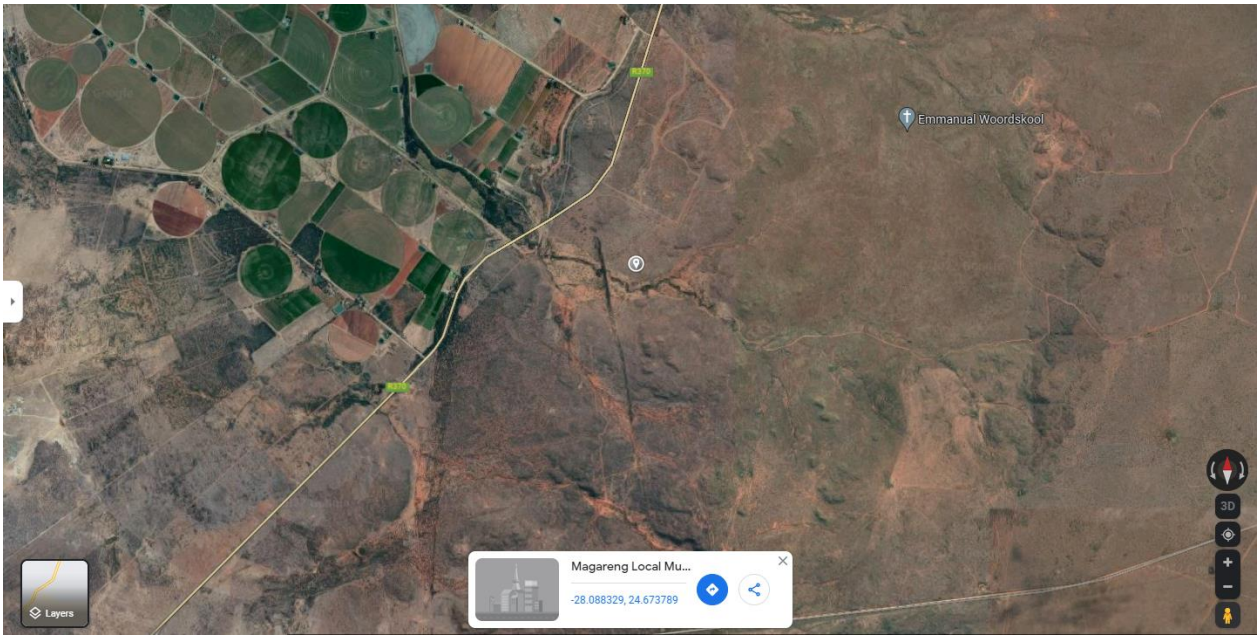
- Geology and soils:

  Landscape topography in the lower Vaal River area consists largely of coalescent planar surfaces resting on a pre-Karoo platform of Ventersdorp basalts and andesites. Gravel deposits are laterally very

extensive and are deposited up to 110 m above the current riverbed of the Vaal River. These alluvial deposits are manifested as terrace exposures in the Warrenton area, and consist of grit to cobble grade conglomerate with granular to pebbly clasts. Raw material mainly consists of quartz, quartzite, agate, chert or banded ironstone set in a matrix of dark red, fine to medium sand. The gravels are spread across a pre-Karoo platform of Ventersdorp lava pockmarked with thin remnants of Karoo sediments preserved in depressions

Soils are deep sandy to loamy sands of aeolian origin, usually underlain by calcrete.

- Physical environment:
  The application area (situated on the foot of the hill/mountainous area) and surrounding landscape is characterized by an adulating landscape with relative to steep slopes. Environmental altering features include surrounding active Manganese and/or Iron ore mines and prospecting activities.



- Biological environment:
  - Fauna:
    Due to the active mining environment of this region most of the natural wild fauna within these areas are nocturnal and may include, but not limited to, the Silver-back Jackal, Bat-ear Fox, Cape Hare and several other rodent species.

    During the field visit on 27 October 2021 a Cape Hare was spotted and evidence of Porcupine roaming found.

- Flora:
  The project area falls within the Kalahari Plains Thorn Bushveld, also known as the Kalahari Thornveld, and is characterized by a fairly well-developed tree stratum with Camel Thorn (*Vachellia erioloba*) and Shepherd's Tree (*Boscia albitrunca*) as the dominant trees, along with scattered individuals of Belly Thorn (*Acacia luederitzii*) and Silver Clusterleaf (*Terminalia sericea*), which may locally conspicuous.

  The shrub layer is moderately developed and individuals of Black Thorn (*Senegalia mellifera*), Weeping Candle Thorn (*Vachellia hebeclada*), Karee-thorn (*Lycium hirsutum*), Raisin tree (*Grewia flava*) and Grey Camel Thorn (*Vachellia haematoxylon*) dominate this layer.

  The grass cover depends on the amount of rainfall during the growing season. Grasses such as Lehmann's Lovegrass (*Eragrostis lehmanniana*), Sour Bushmangrass (*Schmidtia kalihariensis*) and Silky Bushman grass (*Stipagrostis uniplumis*) are conspicuous. *(Reference: Low and Rebelo, Vegetation of South Africa, page 35)*

- Heritage environment:
  The area has very little potential to contain microfossils. On the project area itself are other heritage resources such as built structures over 60 years old, sites of cultural significance associated with oral histories, burial grounds and graves of victims of conflict and cultural landscapes and/or viewscapes non-existing.

The education levels in the district are significantly low. Of those aged 20 years and older, 13.1% had some primary schooling, 5.1% completed primary, 37.2% had some secondary schooling and 27.2% had matric. Only 6.1% had a higher qualification and 11.3% no form of schooling. Low education levels have resulted into the relative high level of unskilled labour force.

This has in turn contributed to the high unemployment levels in the area (26.1%), with a youth unemployment rate of 32.3%, and low wages for those employed. Most of the area's rural population is employed in agriculture as farm workers as well as on the mines in the vicinity. A

small amount of workers find employment in retail and light industries in surrounding smaller towns.

- Cultural environment:
  The cultural environment of the proposed project area can be described as a mining community with their everyday norms of the western culture.

8.4.1.2 Description of the current land uses

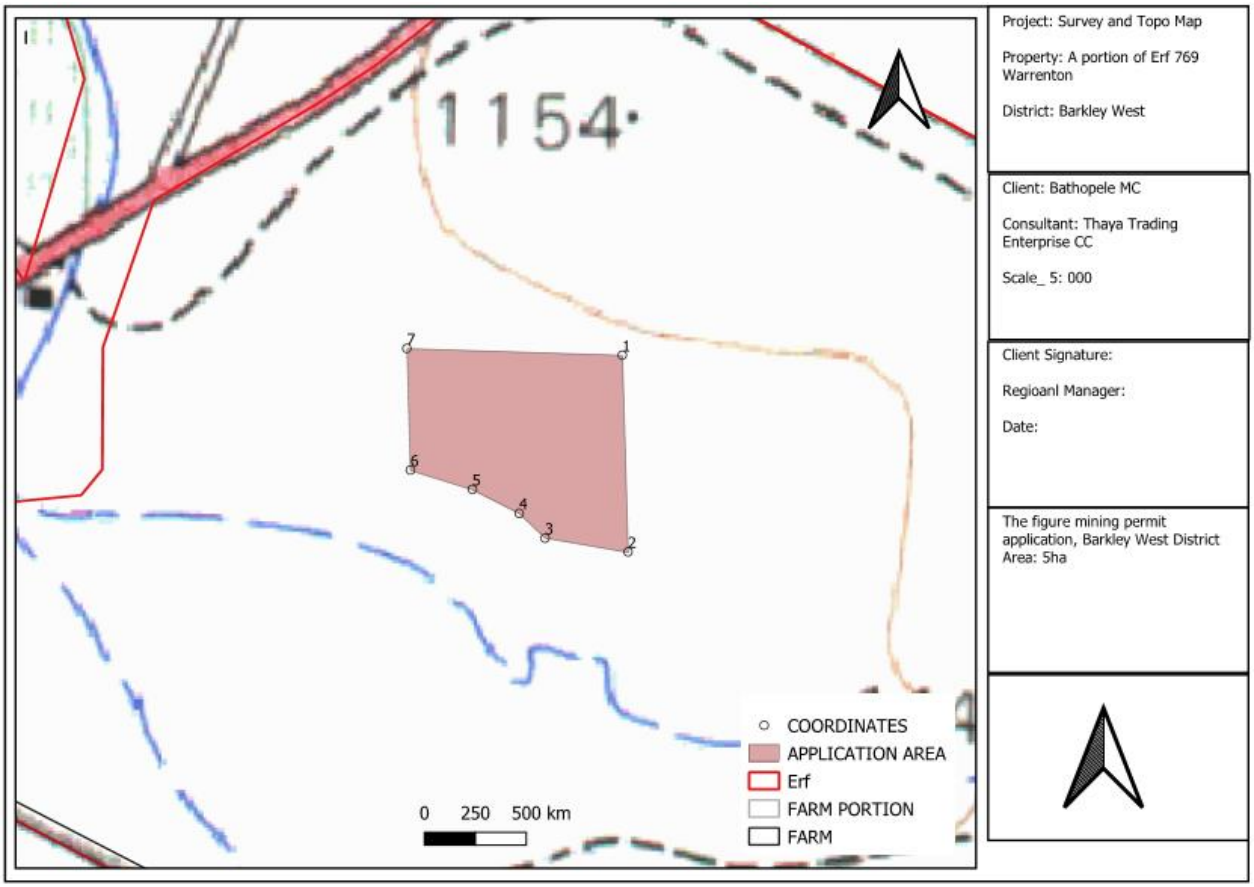
The current land uses of the project area and surroundings can be best described as small to large scale mining activities on the farms in the vicinity.

8.4.1.3 Description of specific environmental features and infrastructure on the site

No specific and/or sensitive environmental features and/or infrastructure occur on site or within close proximity

8.4.1.4 Environmental and current land use map

(Show all environmental and current land use features)



8.5 Impacts and risks identified including the nature, significance, consequence, extent, duration and probability of the impacts, including the degree to which these impacts may occur

(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)

ACTIVITY	DESCRIPTION	Se	D	SP	C	P	Si
1. CONSTRUCTION PHASE IMPACTS							
Road construction	Loss of vegetation + habitat	L	L	L	L	L	L
Escom line	Loss of vegetation + habitat	NOT APPLICABLE					
Plant construction	Loss of vegetation + habitat	L	L	L	M	L	L
Pipeline installation	Loss of vegetation + habitat	L	L	L	L	L	L
Offices	Loss of vegetation + habitat	L	L	L	L	L	L
2. OPERATIONAL PHASE IMPACTS							
Mining	Geological degradation	M	H	L	H	H	H
Disposal	Topographic change - dump	L	L	L	L	M	L
Mining	Topographic change - pit	M	H	L	M	H	H
Mining	Soil pollution - accidental spills and leakages	M	L	L	H	L	H
Operation	Soil pollution (workshop, store, parking)	L	L	L	H	M	H
Operation	Loss of grazing	L	M	L	M	H	M
Operation	Loss of/ disturbance to plants	L	M	L	M	H	M
Extraction of groundwater	Depressed water table	L	L	L	L	L	L
Operation	Problem plant invasion	L	L	L	L	L	L
Operation	Effect on animals	L	M	L	L	M	L
*Waste water disposal	Water regime (regional)	L	L	L	L	L	L
Mining	Noise (earth moving equipment and crushers)	L	L	L	L	L	L
Operation	Air quality: Dust - Transport	L	L	L	L	L	L
Operation	Air quality: Dust - Crusher	L	L	L	L	L	L
Mining	Noise - blasting nuisance - regional	NOT APPLICABLE					
Mining	Noise - blasting nuisance -personnel	NOT APPLICABLE					
Mining, operation	Loss of archaeological items	L	L	L	L	L	L
Mining	Sensitive landscapes	L	L	L	L	L	L
Mining	Visual impact	L	L	L	L	L	L
3. DECOMMISSIONING PHASE IMPACTS							
Demolition	Waste disposal	POSITIVE					
Rehabilitation	Re-vegetation	POSITIVE					
4. RESIDUAL IMPACTS AFTER CLOSURE							
Vacated site	Rehabilitation of exposed areas	POSITIVE					
Vacated site	Safety risks	POSITIVE					

8.6 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 were determined in order to decide the extent to which the initial site layout needs revision).

Methodology used in determining and ranking the nature of the possible impacts caused by the proposed listed activities includes:

- Identify all mining and mining related activities of the proposed project
- All identified activities are analyzed and potential impacts identified per activity
- Using specific impact criteria to determine the significance, consequence, extent duration and probability of each identified impact per activity.

The environmental evaluation is done with the assumption that all mitigatory measures and rehabilitation plans have been adhered to (Hacking, 1999). The preceding list of identified impacts is evaluated hereunder in terms of the following criteria:

SEVERITY

- *Low negative impact*: indicates a state of 'calmness' concluding that the effect the operations may have on the environment is so insignificant that the wellbeing of the environment or any individual will not be degraded or prohibited.

- *Medium negative impact*: describes as state of 'manageable stress', giving the idea of that the effect of the operations on the environment is significant enough to cause tolerable disturbance to the wellbeing or overall conditions of the environment or any individual.

- *High negative impact:* indicating a state of 'high stress', meaning that the effect of the operations on the environment is so significant that the wellbeing and overall conditions of the environment or any individual will be degraded or prohibited.

DURATION

- *Short-term*: short-term duration is rated as a period less than two years and indicated as a low impact.

- *Medium-term*: medium-term impact is rated as the period between 2 and 5 years and indicated as a medium impact.

- *Long-term***:** long term impact is rated as the any period exceeding 5 years and indicated as a high impact.

SPATIAL SCALE	- *Localized*: the disturbance occurs within a radius of 500 m from point of existence and indicated as low impact - *Fairly widespread*: the disturbance is carried over a short distance, between 500 m and 1 km radius from point of existence and indicated as medium impact - *Widespread*: disturbance exercise a negative affect over an area greater than 1 km radius from point of existence and indicated as high impact.
CONSEQUENCE	- *Low consequence*: meaning that the probability of cumulative impact occurrence is minimal with little to no lasting effects and is indicated as low impact - *Medium consequence*: meaning that the probability of cumulative impact occurring exists with a moderate, short-term lasting effect and is indicated as medium impact. - *High consequence*: meaning that the probability of cumulative impact occurrence is absolute with a short to medium-term lasting effect and indicated as high impact
SIGNIFICANCE	- *Low overall significance*: the disturbance caused by the impact is minimal with an excellent probability for total recovery after operations ceased. - *Medium overall significance*: the disturbance caused by the impact is moderate with a good chance for total recovery over an intermediate period after operations ceased. - *High overall significance*: the disturbance caused by the impact is severe with a poor to no probability for recovery after operations ceased.

LEGEND FOR TABLES

Se	- Severity	D	-	Duration
SP	- Spatial Scale	P	-	Probability
Si	- Significance	L	-	Low negative impact
H	- High negative impact	M	-	Medium negative impact

8.7 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 compered to alternative layout options to accommodate concerns raised by affected parties)

The proposed mining operations and current proposed site plan shows to have an overall low to medium negative impact on the property. Any alterations to the mining activities may result in a lesser significant impact on the environment, but not significant enough to consider alterations.

The surrounding community may be minimally influenced by the mining operations in regard to noise and cumulative air quality loss. After considering alternative processes, the alterations did not proof any significant minimization of the impacts. It is rather recommended that more strict implementation and adherence to the mitigation measures are enforced.

8.8 The possible mitigation measures that could be applied and the level of risk

(With regard to the issues and concerns raised by affected parties proved a list of the issued 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)

Dust upliftment and mining created noise might be of the two major concerns where mitigation measures are the dampening of the roads and/or cleared areas and keeping activities creating undue noise to more acceptable hours will be implemented.

8.9 Motivation where no alternative sites were considered

Alteration in the mining processes and site plan were considered, but ruled out during the early stages of the planning due to the fact that they proofed not to have any lesser effect on the environment.

8.10 Statement motivation the alternative development location within the overall site

(Provide a statement motivating the final site layout that is proposed)

As detailed in Part A Section 8.7, 8.8 and 8.9 of this document no other alternative developments towards the mining processes are considered and will be kept as originally proposed due to that any alterations proof not to significantly minimize impacts.

9. Full description of the process undertaken to identify, assess and rank the impacts and risks the activity will impose on the preferred site (In respect of the final site layout plan) through the life of the activity

(Including (i) a description of all environmental issues and risks that were identified during the environmental impact assessment process and (ii) an assessment of the significance of each issue and risk and an indication of the extent to which the issue and risk could be avoided or addressed by the adoption of mitigation measures)

The process of identifying, assess and rank the impacts and risks that may result from the activities is done firstly through looking at every aspect of the specific activity and the treat it poses. All activities are assessed against possible vegetation loss, topographic change, soil pollution, depressed water table, invader plant establishment, migration of animals, loss of water quality, noise and dust generation and the destruction of possible archaeological and sensitive landscapes as well as waste disposal and area rehabilitation/re-establishment.

The assessment of impacts is done as a low, medium or high ranking. These rankings are given for several factors, which will conclude into a final ranking. These factors include the Severity of the impact, Duration of impact, Spatial scale of impact, Consequence of impact and the Probability of impact occurring.

The final ranking, the Significance of an impact, is concluded from the above factors giving an indication of the probability of total recovery after operations ceased. The rehabilitation of the environment during and/or after operations has a positive effect on the impact significance.

9.1 Assessment of each identified potentially significant impact and risk

(This section of the report must consider all the known typical impacts of each of the activities (including those that could or should have been identified by knowledgeable persons) and not only those that were raised by registered interested and affected parties.)

ACTIVITY Whether listed or not listed. (E.g. Excavations, blasting, stockpiles, discard dumps or dams, loading, hauling and transport, water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyers, etc...etc...etc.)	**POTENTIAL IMPACT** (E.g. dusts, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air pollution etc...etc.)	**ASPECTS AFFECTED**	**PHASE** In which impact is anticipated. (E.g. Construction, commissioning, operational, decommissioning, closure, post-closure.)	**SIGNIFICANCE** If not mitigated	**MITIGATION TYPE** (modify, remedy, control, or stop) Through (e.g. noise control measures, storm-water 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....	**SIGNIFICANCE** If mitigated
Mining						
Mine Excavations	Vegetation	Loss	Construction	Low	Restriction to roads Vegetation clearing control Rehabilitation	Low
	Geological	Loss	Operational	High	Rehabilitation	High
	Topographic	Change		High	Rehabilitation	Medium
	Soil	Pollution		High	Immediate rehabilitation Regular inspections Vehicle maintenance	Low
	Grazing	Loss		Medium	Rehabilitation Restriction to cleared areas	Low
	Vegetation	Loss/disturbance		Medium	Rehabilitation Restriction to cleared areas	Low
	Water table	Depressed		-	-	-
	Vegetation	Invader plants		Medium	Domestic waste handling Regular removal Report to environmental officer	Low

	Fauna			Low	-	Low
	Water quality (Storm water)	Loss		Low	Storm water management	Low
	Noise	Elevated levels		Low	Silencer systems of vehicles	Low
	Air quality	Degradation		Low	Speed restriction Dampening of mine roads	Low
	Archaeological items	Loss		High	Avoid sites of significance	-
	Sensitive landscape	Destruction		Low	Rehabilitation Avoid significant sensitive sites	Low
	Visual impact	Scenery loss		Medium	-	Medium
	Waste	Disposal	Decommissioning	Low	Management standards	Positive
	Re-vegetation	Re-growth		Medium	Regular inspections	Positive
	Exposed area Rehab	Re-vegetation	After closure	Medium	Regular inspections Removal of invader species	Positive
	Safety risks	Waste disposal		Low	Closure standards	Positive
Topsoil and overburden	Vegetation	Loss	Construction	Low	Vegetation clearing control Dump placement Rehabilitation	Low
	Geological	Loss		-	-	-
	Topographic	Change		Medium	Rehabilitation	Low
	Soil	Pollution		-	-	-
	Grazing	Loss		Low	Dump Placement Vegetation clearing control Rehabilitation	Low
	Vegetation	Loss/disturbance		Low	Dump placement Vegetation clearing control Rehabilitation	Low
	Water table	Depressed		-	-	-
	Vegetation	Invader plants		Low	Regular removal Report to environmental officer	Low
	Fauna			-	-	-

Water quality (storm water)	Loss	Medium	Storm water management	Low
Noise	Elevated levels	-	-	-
Air quality	Degradation	Low	Protect against wind erosion	Low

	Archaeological items	Loss		High	Avoid sites of significance	-
	Sensitive landscape	Destruction		Medium	Avoid significant sensitive sites Adhere to mitigation measures	Low
	Visual impact	Scenery loss		Low	Rehabilitation	Low
	Waste	Disposal	Decommissioning	Low	Management standards	Positive
	Re-vegetation	Re-growth		Low	Rehabilitation Regular inspections	Positive
	Exposed area Rehab	Re-vegetation	After closure	Low	Regular inspections Removal of invader species	Positive
	Safety risks	Waste disposal		Low	Closure standards	Positive
Ore dumps	Vegetation	Loss	Construction	Low	Placement at plant site	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		Medium	Rehabilitation Dump placement	Low
	Soil	Pollution		-	-	-
	Grazing	Loss		Low	Dump placement Rehabilitation	Low
	Vegetation	Loss/disturbance		Low	Dump placement Rehabilitation	Low
	Water table	Depressed		-	-	-
	Vegetation	Invader plants		Low	Regular removal Report to Environmental officer	Low
	Fauna	-		-	-	-
	Water quality (storm water)	Loss		Low	Storm water management	Low
	Noise	Elevated levels		-	-	-
	Air quality	Degradation		Low	-	Low
	Archaeological items	Loss		High	Avoid sites of significance	-
	Sensitive landscape	Destruction		Medium	Placement at plant site Adhere to mitigation measures	Low
	Visual impact	Scenery loss		Low	Rehabilitation	Low
	Waste	Disposal	Decommissioning	Medium	Management standards	Positive

	Re-vegetation	Re-growth		High	Rehabilitation Regular inspections	Positive
	Exposed area Rehab	Re-vegetation	After closure	Low	Regular inspection Removal of invader species	Positive
	Safety risks	Waste disposal		Low	Closure standards	Positive
Waste dumps	Vegetation	Loss	Construction	Medium	Dump placement Rehabilitation	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		Medium	Rehabilitation	Low
	Soil	Pollution		-	-	-
	Grazing	Loss		Medium	Dump placement Rehabilitation	Low
	Vegetation	Loss/disturbance		Medium	Dump placement Rehabilitation	Low
	Water table	Depressed		-	-	-
	Vegetation	Invader plants		Low	Removal of invaders Report to Environmental officer	Low
	Fauna			-	-	-
	Water quality (storm water)	Loss		Medium	Storm water management	Low
	Noise	Elevated levels		-	-	-
	Air quality	Degradation		-	-	-
	Archaeological items	Loss		High	Avoid sites of significance	-
	Sensitive landscape	Destruction		Medium	Avoid significant sensitive sites Adhere to mitigation measures	Low
	Visual impact	Scenery loss		Low	Rehabilitation	Low
	Waste	Disposal	Decommissioning	High	Management standards	Positive
	Re-vegetation	Re-growth		High	Regular inspection	Positive
	Exposed area Rehab	Re-vegetation	After closure	Medium	Regular inspection Removal of invader species	Positive
	Safety risks	Waste disposal		Medium	Closure standards	Positive

Stockpiles	Vegetation	Loss	Construction	Medium	Dump placement	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		Medium	Dump placement	Low
	Soil	Pollution		-	-	-
	Grazing	Loss		Low	Restriction to cleared areas Rehabilitation Dump placement	Low
	Vegetation	Loss/disturbance		Low	Dump placement Restriction to cleared areas Rehabilitation	Low
	Water table	Depressed		-	-	-
	Vegetation	Invader plants		Medium	Removal of invaders	Low
	Fauna			Low	-	Low
	Water quality (storm water)	Loss		Low	Storm water management	Low
	Noise	Elevated levels		-	-	-
	Air quality	Degradation		-	-	-
	Archaeological items	Loss		High	Avoid sites of significance	-
	Sensitive landscape	Destruction		Low	Dump placement Adhere to mitigation measures	Low
	Visual impact	Scenery loss		Low	Rehabilitation	Low
	Waste	Disposal	Decommissioning	Medium	Management standards	Positive
	Re-vegetation	Re-growth		High	Regular inspection	Positive
	Exposed area Rehab	Re-vegetation	After closure	Medium	Regular inspection Invader plant removal	Positive
	Safety risks	Waste disposal		Medium	Closure standards	Positive

Mine infrastructure						
Office site	Vegetation	Loss	Construction	Low	Vegetation clearing control	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		-	-	-
	Soil	Pollution		High	Immediate rehabilitation Continuous inspection	Low
	Grazing	Loss		Low	Rehabilitation Traffic restriction to cleared areas	Low
	Vegetation	Loss/disturbance		Low	Rehabilitation Traffic restriction to cleared areas	Low
	Water table	Depressed		Low	Water consumption restriction	-
	Vegetation	Invader plants		Medium	Regular removal Continuous inspections Domestic waste handling	Low
	Fauna	-		-	-	-
	Water quality (waste water)	Loss		Low	Waste water management	Low
	Noise	Elevated levels		Low	-	Low
	Air quality	Degradation		Low	Dampening of exposed area	Low
	Archaeological items	Loss		High	Avoid sites of significance	-
	Sensitive landscape	Destruction		Low	Adhere to mitigation measures Avoid significant sensitive sites	Low
	Visual impact	Scenery loss		Low	Rehabilitation	Low
	Waste	Disposal	Decommissioning	Medium	Management standards	Positive
	Re-vegetation	Re-growth		Low	Regular inspection	Positive
	Exposed area Rehab	Re-vegetation	After closure	Low	Regular inspection Removal of invader species	Positive
	Safety risks	Waste disposal		Low	Closure standards	Positive

Processing plant	Vegetation	Loss	Construction	Medium	Vegetation clearing control Rehabilitation	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		Low	Rehabilitation Topographical placement	Low
	Soil	Pollution		High	Immediate rehabilitation Continuous inspections Chemical handling protocol Equipment maintenance	Medium
	Grazing	Loss		Low	Rehabilitation Restriction to cleared areas	Low
	Vegetation	Loss/disturbance		Low	Restriction to cleared areas Rehabilitation	Low
	Water table	Depressed		Low	Water use minimization	Low
	Vegetation	Invader plants		Medium	Domestic waste handling Regular removal	Low
	Fauna			Low	-	Low
	Water quality	Loss		High	Soil pollution management Storm water management Waste water management	Low
	Noise	Elevated levels		Low	-	Low
	Air quality	Degradation		Medium	Dampening of exposed area	Low
	Archaeological items	Loss		High	Avoid sites of significance	-
	Sensitive landscape	Destruction		Medium	Avoid significant sensitive sites Adhere to mitigation measures	Low
	Visual impact	Scenery loss		Medium	Rehabilitation	Low
	Waste	Disposal	Decommissioning	High	Management standards	Positive
	Re-vegetation	Re-growth		Medium	Regular inspection	Positive
	Exposed area Rehab	Re-vegetation	After closure	Medium	Regular inspection Removal of invader species	Positive

	Safety risks	Waste disposal		Medium	Closure standards	Positive

Ablution facility	Vegetation	Loss	Construction	Low	Construction near offices Vegetation clearing control Rehabilitation	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		-	-	-
	Soil / Litter	Pollution		Medium	Facility maintenance Immediate clean-up	Low
	Grazing	Loss		Low	Rehabilitation	Low
	Vegetation	Loss/disturbance		Low	Rehabilitation	Low
	Water table	Depressed		Low	Water usage management	Low
	Vegetation	Invader plants		Low	Regular removal	Low
	Fauna			-	-	-
	Water quality (waste water)	Loss		Medium	Waste water management Regular septic tank draining	Low
	Noise	Elevated levels		-	-	-
	Air quality	Degradation		-	-	-
	Archaeological items	Loss		High	Avoid significant sites	-
	Sensitive landscape	Destruction		Low	Rehabilitation Facility maintenance	Low
	Visual impact	Scenery loss		Low	Rehabilitation	Low
	Waste	Disposal	Decommissioning	Medium	Management standards	Positive
	Re-vegetation	Re-growth		Low	Regular inspection	Positive
	Exposed area Rehab	Re-vegetation	After closure	Low	Regular inspection	Positive
	Safety risks	Waste disposal		Low	Closure standards	Positive
Vehicle parking						
Parking lot	Vegetation	Loss	Construction	Medium	Vegetation clearing control	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		-	-	-

	Soil	Pollution		High	Regular inspections Immediate rehabilitation Drip-tray installation Vehicle maintenance	Medium
	Grazing	Loss		Medium	Rehabilitation Restriction to cleared areas	Low

	Vegetation	Loss/disturbance		Medium	Restriction to cleared areas Rehabilitation	Low
	Water table	Depressed		-	-	-
	Vegetation	Invader plants		Medium	Regular removal Continuous inspections Domestic waste handling	Low
	Fauna	-		Low	Waste management	Low
	Water quality (Storm water)	Loss		Medium	Storm water management Soil pollution management	Low
	Noise	Elevated levels		Low	Silencer systems on vehicles	Low
	Air quality	Degradation		Low	Damping of exposed area. Speed restriction	Low
	Archaeological items	Loss		High	Avoid sites of significance	-
	Sensitive landscape	Destruction		Medium	Avoid significant sensitive sites Adhere to mitigation measures Rehabilitation	Low
	Visual impact	Scenery loss		Medium	Rehabilitation	Low
	Waste	Disposal	Decommissioning	Medium	Management standards	Positive
	Re-vegetation	Re-growth		Medium	Regular inspection	Positive
	Exposed area Rehab	Re-vegetation	After closure	Low	Regular inspection Removal of invader species	Positive
	Safety risks	Waste disposal		Medium	Closure standards	Positive
Wash bay	Vegetation	Loss	Construction	Medium	Vegetation clearing control	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		-	-	-

	Soil	Pollution		High	Immediate rehabilitation Regular inspections Adhere to mitigation measures	Medium
	Grazing	Loss		Low	Rehabilitation Restriction to cleared areas	Low
	Vegetation	Loss/disturbance		Low	Restriction to cleared areas Rehabilitation	Low
	Water table	Depressed		Low	Water usage management	Low

	Vegetation	Invader plants		Medium	Regular removal Domestic waste handling	Low
	Fauna	-		Low	Waste management	Low
	Water quality (waste water)	Loss		High	Waste water management Draining/cleaning of waste water Biodegradable detergents	Low
	Noise	Elevated levels		Low	-	Low
	Air quality	Degradation		Low	Damping of exposed area.	Low
	Archaeological items	Loss		High	Avoid sites of significance	-
	Sensitive landscape	Destruction		High	Avoid significant sensitive sites Adhere to mitigation measures Waste water management Rehabilitation	Low
	Visual impact	Scenery loss		Medium	Rehabilitation Waste/metal management	Low
	Waste	Disposal	Decommissioning	High	Management standards	Positive
	Re-vegetation	Re-growth		Medium	Regular inspection	Positive
	Exposed area Rehab	Re-vegetation	After closure	Medium	Regular inspection Removal of invader species	Positive
	Safety risks	Waste disposal		Medium	Closure standards	Positive
Parts store room	Vegetation	Loss	Construction	Medium	Vegetation clearing control	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		-	-	-

Soil	Pollution	High	Immediate rehabilitation Regular inspections Adhere to mitigation measures	Low
Grazing	Loss	Low	Rehabilitation	Low
Vegetation	Loss/disturbance	Low	Rehabilitation	Low
Water table	Depressed	-	-	-
Vegetation	Invader plants	Medium	Regular removal	Low
Fauna	-	Low	-	Low
Water quality (Storm water)	Loss	Medium	Storm water management Soil pollution management	Low
Noise	Elevated levels	-	-	-

	Air quality	Degradation		Low	Damping of exposed area	Low
	Archaeological items	Loss		High	Avoid sites of significance	-
	Sensitive landscape	Destruction		Medium	Avoid significant sensitive sites Adhere to mitigation measures	Low
	Visual impact	Scenery loss		Medium	Rehabilitation Waste/metal management	Low
	Waste	Disposal	Decommissioning	Medium	Management standards	Positive
	Re-vegetation	Re-growth		Low	Regular inspection	Positive
	Exposed area Rehab	Re-vegetation	After closure	Low	Regular inspection	Positive
	Safety risks	Waste disposal		Medium	Closure standards	Positive
Scrap yard	Vegetation	Loss	Construction	Medium	Vegetation clearing control	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		-	-	-
	Soil	Pollution		High	Immediate rehabilitation Regular inspections Adhere to mitigation measures	Medium
	Grazing	Loss		Medium	Rehabilitation Restriction to cleared areas	Low
	Vegetation	Loss/disturbance		Medium	Restriction to cleared areas Rehabilitation	Low
	Water table	Depressed		-	-	-
	Vegetation	Invader plants		Medium	Regular removal Continuous inspections	Low
	Fauna	-		Low	Waste management	Low
	Water quality (Storm water)	Loss		Medium	Storm water management Soil pollution management Waste management	Low
	Noise	Elevated levels		-	-	-
	Air quality	Degradation		-	-	-
	Archaeological items	Loss		High	Avoid sites of significance	-

	Sensitive landscape	Destruction		Medium	Avoid significant sensitive sites Adhere to mitigation measures	Low
	Visual impact	Scenery loss		Medium	Rehabilitation Waste/metal management	Low

	Waste	Disposal	Decommissioning	High	Management standards	Positive
	Re-vegetation	Re-growth		High	Regular inspection	Positive
	Exposed area Rehab	Re-vegetation	After closure	Medium	Regular inspection Removal of invader species	Positive
	Safety risks	Waste disposal		Medium	Closure standards	Positive
Temp Workshop facility	Vegetation	Loss	Construction	Medium	Vegetation clearing control Rehabilitation	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		-	-	-
	Soil	Pollution		High	Immediate rehabilitation Regular inspections Adhere to mitigation measures Waste management	Medium
	Grazing	Loss		Low	Rehabilitation	Low
	Vegetation	Loss/disturbance		Low	Rehabilitation	Low
	Water table	Depressed		-	-	-
	Vegetation	Invader plants		Medium	Domestic waste handling Regular removal	Low
	Fauna	-		Low	Waste management	Low
	Water quality (Storm water)	Loss		Medium	Storm water management Soil pollution management	Low
	Noise	Elevated levels		Low	-	Low
	Air quality	Degradation		-	-	-
	Archaeological items	Loss		High	Avoid sites of significance	-
	Sensitive landscape	Destruction		Low	Rehabilitation Adhere to mitigation measures	Low
	Visual impact	Scenery loss		Medium	Rehabilitation Waste management	Low

	Waste	Disposal	Decommissioning	Medium	Management standards	Positive
	Re-vegetation	Re-growth		Medium	Regular inspection	Positive
	Exposed area Rehab	Re-vegetation	After closure	Low	Regular inspection Removal of invader species	Positive
	Safety risks	Waste disposal		Medium	Closure standards	Positive
Chemical and hydrocarbon fluid storage	Vegetation	Loss	Construction	Low	Vegetation clearing control Construction near offices Rehabilitation	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		-	-	-
	Soil	Pollution		Medium	Chemical handling protocol Chemical waste management Immediate rehabilitation	Low
	Grazing	Loss		Low	Rehabilitation	Low
	Vegetation	Loss/disturbance		Low	Rehabilitation	Low
	Water table	Depressed		-	-	-
	Vegetation	Invader plants		Low	Regular removal	Low
	Fauna	-		Low	Chemical handling protocol Chemical waste management	Low
	Water quality (Storm water)	Loss		Medium	Storm water management Soil pollution management	Low
	Noise	Elevated levels		-	-	-
	Air quality	Degradation		-	-	-
	Archaeological items	Loss		High	Avoid sites of significance	-
	Sensitive landscape	Destruction		Low	Rehabilitation	Low
	Visual impact	Scenery loss		Low	-	Low
	Waste	Disposal	Decommissioning	Medium	Management standards	Positive
	Re-vegetation	Re-growth		Low	Regular inspection	Positive
	Exposed area Rehab	Re-vegetation	After closure	Low	Regular inspection Removal of invader species	Positive
	Safety risks	Waste disposal		Medium	Closure standards	Positive

Diesel storage	Vegetation	Loss	Construction	Medium	Vegetation clearing control Construction near offices Rehabilitation	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		-	-	-
	Soil	Pollution		High	Regular maintenance Regular inspections Immediate rehabilitation Operation procedures	Low
	Grazing	Loss		Low	Restriction to cleared areas Rehabilitation	Low
	Vegetation	Loss/disturbance		Low	Restriction to cleared areas Rehabilitation	Low
	Water table	Depressed		-	-	-
	Vegetation	Invader plants		Low	Regular removal	Low
	Fauna	-		Medium	Soil pollution management Immediate rehabilitation	Low
	Water quality (Storm water)	Loss		Medium	Soil pollution management Storm water management	Low
	Noise	Elevated levels		-	-	-
	Air quality	Degradation		-	-	-
	Archaeological items	Loss		High	Avoid sites of significance	-
	Sensitive landscape	Destruction		Medium	Avoid significant sensitive sites Adhere to mitigation measures	Low
	Visual impact	Scenery loss		Low	Rehabilitation	Low
	Waste	Disposal	Decommissioning	High	Management standards	Positive
	Re-vegetation	Re-growth		Medium	Regular inspection	Positive
	Exposed area Rehab	Re-vegetation	After closure	Medium	Regular inspection	Positive

	Safety risks	Waste disposal		High	Closure standards	Positive

Domestic waste facility	Vegetation	Loss	Construction	Low	Vegetation clearing control	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		-	-	-
	Soil / Litter	Pollution		Low	Immediate clean-up Continuous inspections	Low
	Grazing	Loss		Low	Rehabilitation	Low
	Vegetation	Loss/disturbance		Low	Rehabilitation	Low
	Water table	Depressed		-	-	-
	Vegetation	Invader plants		Medium	Regular removal	Low
	Fauna			Medium	Adhere to mitigation measures Immediate clean-up Fencing of site	Low
	Water quality (Storm water)	Loss		Low	Storm water control	Low
	Noise	Elevated levels		-	-	-
	Air quality	Degradation		-	-	-
	Archaeological items	Loss		Low	Avoid sites of significance	-
	Sensitive landscape	Destruction		Low	Avoid significant sensitive sites Adhere to mitigation measures	Low
	Visual impact	Scenery loss		Low	Waste management Litter pollution management Rehabilitation	Low
	Waste	Disposal	Decommissioning	Medium	Management standards	Positive
	Re-vegetation	Re-growth		Low	Regular inspection	Positive
	Exposed area Rehab	Re-vegetation	After closure	Low	Regular inspection Removal of invader species	Positive
	Safety risks	Waste disposal		Low	Closure standards	Positive

Access and hauling roads	Vegetation	Loss	Construction	Medium	Make use of existing roads Minimum roads possible Rehabilitation	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		Low	Rehabilitation	Low
	Soil	Pollution		High	Vehicle maintenance Regular inspections Immediate rehabilitation	Medium
	Grazing	Loss		Medium	Restriction to roads Rehabilitation	Low
	Vegetation	Loss/disturbance		Medium	Restriction to roads Rehabilitation	Low
	Water table	Depressed		-	-	-
	Vegetation	Invader plants		Medium	Domestic waste handling Regular inspections Removal of invader species	Low
	Fauna	-		Low	Silencer systems on vehicles Minimum traffic possible Speed restriction	Low
	Water quality (Storm water)	Loss		Low	Soil pollution management Storm water control	Low
	Noise	Elevated levels		Low	Silencer systems on vehicles	Low
	Air quality	Degradation		Low	Dampening of mine roads Speed restrictions	Low
	Archaeological items	Loss		High	Restriction to roads Avoid sites of significance	-

	Waste	Disposal	Decommissioning	Medium	Management standards	Positive
	Re-vegetation	Re-growth		Medium	Regular inspection	Positive
	Exposed area Rehab	Re-vegetation	After closure	Medium	Regular inspection Removal of invader species	Positive
	Safety risks	Waste disposal		Low	Closure standards	Positive
	Sensitive landscape	Destruction		Medium	Minimum roads possible Soil pollution management Rehabilitation	Low
	Visual impact	Scenery loss		Low	Dust control measures Rehabilitation	Low

10 Summary of specialist reports

(This summary must be completed if any specialist reports informed the impact assessment and final site layout process and must be in the following tabular form):-

LIST OF STUDIES UNDERTAKEN	RECOMMENDATIONS OF SPECIALIST REPORTS	SPECIALITST RECOMMENDATIONS THAT HAVE BEEN INCLUDED IN THE EIA REPORT (Mark with an **X** where applicable	REFERENCE TO APPLICABLE SECTION OF REPORT WHERE SPECIALITS RECOMMENDATIONS HAVE BEEN INCLUDED
1. No Specialist report required at this stage			

Attach copies of Specialist Reports as appendices

11 Environmental impact statement

11.1 Summary of the key findings of the environmental impact assessment

During the conduction of the Basic Impact Assessment several key elements regarding the proposed project came under attention:

- With due consideration towards the negative impact the mining activities pose on the environment with the knowledge of the current status of the environment, it can be concluded that the mining activities may have some negative impact on the area.

- The community from nearby towns will benefit from the mining activities through accommodation, related service needs as well as through local employment and income security.

11.2 Final Site Map

(Provide a map at an appropriate scale which superimposes the proposed overall activity and its associated structures and infrastructure on the environmental senilities of the preferred site indicating any areas that should be avoided, including buffers.)

The final site map can only be provided after final mine planning. This map will be submitted to the Department of Mineral Resources and all other relevant authorities before the commencement of any invasive operations.

11.3 Summary of the positive and negative impacts and risks of the proposed activity and identified alternative.

Throughout the document the focus point was to identify and assess the negative impacts the proposed operations may have on the bio-physical, socio-economic and cultural environment. The major negative influences the proposed operations may pose are noise disturbance, elevated dust levels, and vegetation loss.

The mining of the area will have a positive effect on the socio-economic environment through job creation and social upliftment.

12 Proposed impact management objectives and the impact management outcomes of inclusion in the EMPr

(Based on the assessment and where applicable the recommendations from specialist reports, the recording of proposed impact management objectives and the impact management outcomes for the development for inclusion in the EMPr as well as for inclusion as conditions of authorization.)

The proposed impact management objective is to create environmental sustainable mining operations by the management, remediation or elimination of environmental impacts through the implementation and adherence of mitigation measures as legislatively required.

The above mentioned outcomes can be achieved through the implementation of the following impact specified objectives and their outcomes:

- Minimizing of vegetation loss caused by construction and site maintenance:
  - Vegetation clearing control
  - Rip and rehabilitation of unnecessary compacted areas
  - Adherence to mine roads
  - Implementation of a no wood collection and no open fire policy

- Prevention of soil pollution due to chemical spillage ○ Regular maintenance of machinery. ○ Inspection on chemical containing activities against faults and leaks. ○ Immediate rehabilitation of an affected area.
  - ○ Suitable disposal of contaminated soil.

- Reduction of noise levels caused by mine machinery, mineral processing and earth moving equipment ○ Undue noise levels will be kept to acceptable hours. ○ Modification of equipment to reduce noise levels.
  - ○ Aim to keep noise levels within the approved prescribed standards.

- Minimization of dust upliftment causing loss of air quality. ○ Watering of the dirt roads and vegetation cleared areas. ○ Adherence to speed limits.
  - ○ Erosion protection of mine dumps

- Surface and ground water quality degradation ○ Adherence to water management guidelines
  - ○ Specific water facility construction ○ Storm water control
  - ○ Measurement of water level and quality
  - ○ Implementation of ground water monitoring system

- Waste disposal ○ Implementation of waste disposal facilities
  - ○ Contractual agreements for waste removal.
  - ○ Waste removal schedules, ○ Compliance to good housekeeping rules.

- Environmental awareness training on Fauna and Flora ○ Proper waste management
  - ○ Specific work related safety awareness

13 Aspects for inclusion as conditions of Authorization

(Any aspects which must be made conditions of the Environmental Authorization)

At this stage all aspects that must be included into the environmental authorization are detailed in this document. Should any aspects arise that needs to be made conditions this document will be updated accordingly and will be submitted to all relevant departments.

14 Description of any assumptions, uncertainties and gaps in knowledge

(Which relate to the assessment and mitigation measures proposed)

Any assumptions, uncertainties and gaps in knowledge that could arise during the operation of the mining activities will be addressed and mitigation measures implemented to prevent any damage to the environment. Such assumptions, uncertainties and gaps in knowledge will be described, implemented and submitted to all the relevant departments.

To prevent any unnecessary assumptions, uncertainties and gaps in knowledge, the Basic Environmental Assessment part of this document should not be read alone, as it only contain impact assessment with summarized management options, but rather read as a

whole with the Environmental Management Programme, which include detailed management measures for each listed activity as described in the Basic Environmental Assessment.

15 Reasoned opinion as to whether the proposed activity should or should not be authorized

15.1 Reasons why the activity should be authorized or not

The proposed mining operations should be strongly considered for authorization as mine development will result in the upliftment of the local community, economic growth of the town, region and possibly province.

15.2 Conditions that must be included in the authorization

15.2.1 Specific conditions to be included into the compilation and approval of EMPr

Specific conditions to be included into the compilation and approval of the BEAR/EMPr are the adherence to all mitigation measures as stipulated within the BEAR/EMPr.

15.1.2 Rehabilitation requirements.

Rehabilitation Requirements should include, but is not limited to the following:

- The area must be rehabilitated as close as possible to its original natural state as possible.
- Rehabilitation must be done to the complete satisfaction of all relevant departments and land owners
- Where necessary must a soil bed be provided and sawn with indigenous plant species to ensure re-establishment of vegetation
- A two year monitoring programme must be implemented to ensure the success of vegetation re-establishment and the elimination of invader plant species.
- All other rehabilitation measures as contained within the EMPr, mitigation measures inclusive, must be adhered to or a grounded reason for why any of these could not be met.

16 Period for which the Environmental Authorization is required

The period applied for during the application phase is 2 years as legislatively required and requires Environmental Authorization for the latter period.

17 Undertaking

(Confirm that the undertaking required to meet the requirements of this section is provided at the end of the

EMPr and is applicable to both the Basic Assessment Report and the Environmental Management Programme report.)

The Director, Taku Tebogo Victor, confirm that the undertaking required to meet the requirements of this section is provided at the end of the EMPr and is applicable to both the Basic Assessment Report and the Environmental Management Report.

18 Financial Provision

(State the amount that is required to both manage and rehabilitate the environment in respect or rehabilitation.)

No.	Description	Unit	A Quantity	B Master Rate	C	D	E=A*B*C*D
1	Dismantling of processing plant and related structures (including overland conveyors and powerlines)	m3		12.21	1	1	0
2 (A)	Demolition of steel buildings and structures	m2		170.13	1	1	0
2 (B)	Demolition of reinforced concrete buildings and structures	m2		250.72	1	1	0
3	Rehabilitation of access roads	m2		30.44	1	1	0
4 (A)	Demolition and rehabilitation of electrified railway lines	m2		295.49	1	1	0
4 (B)	Demolition and rehabilitation of non-electrified railway lines	m2		161.18	1	1	0
5	Demolition of housing and/or administration facilities	m2		340.26	1	1	0
6	**Opencast rehabilitation including final voids and ramps**	**Ha**	**0.08**	**173174.97**	**2**	**1**	**27707.9952**
7	Sealing of shafts adits and inclines	m3		91.33	1	1	0
8 (A)	Rehabilitation of overburden and soils	Ha	0.04	118912.29	1	1	4756.4916
8 (B)	Rehabilitation of processing waste deposits and evaporation ponds (non-polluting potential)	Ha		148103.1	1	1	0
8 (C)	Rehabilitation of processing waste deposits and evaporation ponds (polluting potential)	Ha		430161.62	1	1	0
9	Rehabilitation of subsided areas	Ha		99571.13	1	1	0
10	General surface rehabilitation	Ha		94198.59	1	1	0
11	River diversions	Ha		94198.59	1	1	0
12	Fencing	M		107.45	1	1	0
13	Water management	Ha		35816.95	1	1	0
14	2 to 3 years of maintenance and aftercare	Ha		12535.93	1	1	0
15 (A)	Specialist study	Sum				1	0
15 (B)	Specialist study	Sum				1	0
	Preliminary and General		3895.738416		weighting factor 2		3895.738416
2	Contingencies		3246.44868				3246.44868
					Subtotal		39606.67
					VAT (15%)		5941.00
					Grand Total		45548.00

18.1 Explain how the aforesaid amount was derived

As seen from the above table the amount of **R 50 000** was calculated using the Department of Mineral Resources' approved Financial Provision Quantum Calculation table.

18.2 Confirm that this amount can be provided from operation expenditure

(Confirm that the amount, is anticipated to be an operating cost and is provided for as such in the Mining work programme, Financial and Technical Competence Report or Prospecting Work Programme as the case may be)

The above stated amount can be provided from, as part of, the 1st years operating expenditure and is in the submitted Financial and Technical Ability Report anticipated as an operating cost and was provided for as such.

19 Specific Information required by the competent Authority

19.1 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 BEA report must include the:-

19.1.1 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 or alluvial diamond prospecting on any directly affected person including the landowner, lawful occupier or, where applicable, potential beneficiaries of any land restitution claim, attached the investigation report as an **Appendix**)

The mining activities will contribute to the local economy via its impact on job creation, total disposable income and value-added activities. The mine will support business activity in the local economy for the duration of the mine

Five measures of economic impacts can be used to demonstrate the potential positive effect of the proposed mining operation on the local economy:

- Employment: the extent of employment can be measured as number of jobs or in terms of full time equivalents
- Payroll income: the gross remuneration of employees in terms of salaries and wages
- Capital Expenditure (CAPEX): the total amount spent on the purchasing of fixed assets and total spent on construction
- Operating Expenditures and Maintenance (OPEX): the total amount spent locally by businesses on goods and services, excluding salaries and wages as well as rents or interest
- Revenue: the total value of sales arising from business activity at the mine

19.1.2 Impact on any national estate referred to in section 3(2) of the National Heritage Resources Act.

(Provide the result of investigation, assessment and evaluation of the impact of the mining, bulk sampling or alluvial diamond 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 the Act.)

It is not foreseen that any archaeological sites of any significance exist, that will be impacted by the mining operations.

Should any fossils, historic artefacts and/or heritage significant objects be discovered and/or unearthed in the process of mining, the Mine Permit holder will contact a South African Museum or University which employs the necessary specialists for the necessary studies and/or salvage operations can take place.

20 Other matters required in terms of sections 24(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.)

The compiler of this document, also the appointed EAP, has some desktop knowledge of the area on which the proposed project is situated. A field visit for investigation was executed with an in depth desktop study using existing literature and data base knowledge acquired over the years.

No reasonable or feasible alternatives could be identified during the impact assessment process. The activities were already designed to cause the minimal disturbance possible with the best possible mining and rehabilitation practices.

PART B

ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT

1. Draft environmental management programme

1.1 Details of the EAP

(Confirm that the requirement for the provision of the details and expertise of the EAP are already included in PART A, Section 1.1 herein as required.)

The details and expertise of the Environmental Assessment Practitioner are already included in Part A Section 1.1 of this document, but also included below.

Details of the EAP

Name of the Practitioner:	Kwindla Nobaza
Address:	19 Park Road, Belgravia, Kimberley, 8301
Tel no:	071 959 9207
Mobile:	071 959 9207
Fax No:	N/A
e-mail address:	khnobaza@gmail.com

1.2 Description of the Aspects of the Activity

(Confirm that the requirement to describe the aspects of the activity that are covered by the draft environmental management programme is already included in PART A, section 9 herein as required)

The description of the aspects of the activity are already covered in Part A Section 9 of this document, but also included below.

ACTIVITY Whether listed or not listed. (E.g. Excavations, blasting, stockpiles, discard dumps or dams, loading, hauling and transport, water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyers, etc…etc…etc.)	**POTENTIAL IMPACT** (E.g. dusts, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air pollution etc…etc.)	**ASPECTS AFFECTED**	**PHASE** In which impact is anticipated. (E.g. Construction, commissioning, operational, decommissioning, closure, post-closure.)	**SIGNIFICANCE** If not mitigated	**MITIGATION TYPE** (modify, remedy, control, or stop) Through (e.g. noise control measures, storm-water 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….	**SIGNIFICANCE** If mitigated
Mining						
Mine Excavations	Vegetation	Loss	Construction	Low	Restriction to roads Vegetation clearing control Rehabilitation	Low
	Geological	Loss	Operational	High	Rehabilitation	High
	Topographic	Change		High	Rehabilitation	Medium
	Soil	Pollution		High	Immediate rehabilitation Regular inspections Vehicle maintenance	Low
	Grazing	Loss		Medium	Rehabilitation Restriction to cleared areas	Low
	Vegetation	Loss/disturbance		Medium	Rehabilitation Restriction to cleared areas	Low
	Water table	Depressed		-	-	-
	Vegetation	Invader plants		Medium	Domestic waste handling Regular removal Report to environmental offices	Low

	Fauna			Low	-	Low
	Water quality (storm water)	Loss		Low	Storm water management	Low
	Noise	Elevated levels		Low	Silencer systems of vehicles	Low
	Air quality	Degradation		Low	Speed restriction Dampening of mine roads	Low
	Archaeological items	Loss		High	Avoid sites of significance	-
	Sensitive landscape	Destruction		Low	Rehabilitation Avoid significant sensitive sites	Low
	Visual impact	Scenery loss		Medium	-	Medium
	Waste	Disposal	Decommissioning	Low	Management standards	Positive
	Re-vegetation	Re-growth		Medium	Regular inspections	Positive
	Exposed area Rehab	Re-vegetation	After closure	Medium	Regular inspections Removal of invader species	Positive
	Safety risks	Waste disposal		Low	Closure standards	Positive
Topsoil and overburden	Vegetation	Loss	Construction	Low	Vegetation clearing control Dump placement Rehabilitation	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		Medium	Rehabilitation	Low
	Soil	Pollution		-	-	-
	Grazing	Loss		Low	Dump placement Vegetation clearing control Rehabilitation	Low
	Vegetation	Loss/disturbance		Low	Dump placement Vegetation clearing control Rehabilitation	Low
	Water table	Depressed		-	-	-
	Vegetation	Invader plants		Low	Regular removal Report to environmental officer	Low
	Fauna	-		-	-	-

Water quality (storm water)	Loss	Medium	Storm water management	Low
Noise	Elevated levels	-	-	-
Air quality	Degradation	Low	Protect against wind erosion	Low

	Archaeological items	Loss		High	Avoid sites of significance	-
	Sensitive landscape	Destruction		Medium	Avoid significant sensitive sites Adhere to mitigation measures	Low
	Visual impact	Scenery loss		Low	Rehabilitation	Low
	Waste	Disposal	Decommissioning	Low	Management standards	Positive
	Re-vegetation	Re-growth		Low	Rehabilitation Regular inspections	Positive
	Exposed area Rehab	Re-vegetation	After closure	Low	Regular inspections Removal of invader species	Positive
	Safety risks	Waste disposal		Low	Closure standards	Positive
Ore dumps	Vegetation	Loss	Construction	Low	Placement at plant site	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		Medium	Rehabilitation Dump placement	Low
	Soil	Pollution		-	-	-
	Grazing	Loss		Low	Dump placement Rehabilitation	Low
	Vegetation	Loss/disturbance		Low	Dump placement Rehabilitation	Low
	Water table	Depressed		-	-	-
	Vegetation	Invader plants		Low	Regular removal Report to Environmental officer	Low
	Fauna	-		-	-	-
	Water quality (Storm water)	Loss		Low	Storm water management	Low
	Noise	Elevated levels		-	-	-
	Air quality	Degradation		Low	-	Low
	Archaeological items	Loss		High	Avoid sites of significance	-
	Sensitive landscape	Destruction		Medium	Placement at plant site Adhere to mitigation measures	Low
	Visual impact	Scenery loss		Low	Rehabilitation	Low
	Waste	Disposal	Decommissioning	Medium	Management standards	Positive

	Re-vegetation	Re-growth		High	Rehabilitation Regular inspections	Positive
	Exposed area Rehab	Re-vegetation	After closure	Low	Regular inspection Removal of invader species	Positive
	Safety risks	Waste disposal		Low	Closure standards	Positive
Waste dumps	Vegetation	Loss	Construction	Medium	Dump placement Rehabilitation	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		Medium	Rehabilitation	Low
	Soil	Pollution		-	-	-
	Grazing	Loss		Medium	Dump placement Rehabilitation	Low
	Vegetation	Loss/disturbance		Medium	Dump placement Rehabilitation	Low
	Water table	Depressed		-	-	-
	Vegetation	Invader plants		Low	Removal of invaders Report to Environmental officer	Low
	Fauna			-	-	-
	Water quality (storm water)	Waste water		Medium	Storm water management	Low
	Noise	Elevated levels		-	-	-
	Air quality	Degradation		-	-	-
	Archaeological items	Loss		High	Avoid sites of significance	-
	Sensitive landscape	Destruction		Medium	Avoid significant sensitive sites Adhere to mitigation measures	Low
	Visual impact	Scenery loss		Low	Rehabilitation	Low
	Waste	Disposal	Decommissioning	High	Management standards	Positive
	Re-vegetation	Re-growth		High	Regular inspection	Positive
	Exposed area Rehab	Re-vegetation	After closure	Medium	Regular inspection Removal of invader species	Positive
	Safety risks	Waste disposal		Medium	Closure standards	Positive

Stockpiles	Vegetation	Loss	Construction	Medium	Dump placement	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		Medium	Dump placement	Low
	Soil	Pollution		-	-	-
	Grazing	Loss		Low	Restriction to cleared areas Rehabilitation Dump placement	Low
	Vegetation	Loss/disturbance		Low	Dump placement Restriction to cleared areas Rehabilitation	Low
	Water table	Depressed		-	-	-
	Vegetation	Invader plants		Medium	Removal of invaders	Low
	Fauna			Low	-	Low
	Water quality (Storm water)	Loss		Low	Storm water management	Low
	Noise	Elevated levels		-	-	-
	Air quality	Degradation		-	-	-
	Archaeological items	Loss		High	Avoid sites of significance	-
	Sensitive landscape	Destruction		Low	Dump placement Adhere to mitigation measures	Low
	Visual impact	Scenery loss		Low	Rehabilitation	Low
	Waste	Disposal	Decommissioning	Medium	Management standards	Positive
	Re-vegetation	Re-growth		High	Regular inspection	Positive
	Exposed area Rehab	Re-vegetation	After closure	Medium	Regular inspection Invader plant removal	Positive
	Safety risks	Waste disposal		Low	Closure standards	Positive
Mine infrastructure						
Office site	Vegetation	Loss	Construction	Low	Vegetation clearing control	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		-	-	-

	Soil	Pollution		High	Immediate rehabilitation Continuous inspection	Low
	Grazing	Loss		Low	Rehabilitation Traffic restriction to cleared areas	Low

	Vegetation	Loss/disturbance		Low	Rehabilitation Traffic restriction to cleared areas	Low
	Water table	Depressed		Low	Water consumption restriction	-
	Vegetation	Invader plants		Medium	Regular removal Continuous inspections Domestic waste handling	Low
	Fauna	-		-	-	-
	Water quality (waste water)	Loss		Low	Waste water management	Low
	Noise	Elevated levels		Low	-	Low
	Air quality	Degradation		Low	Dampening of exposed area	Low
	Archaeological items	Loss		High	Avoid sites of significance	-
	Sensitive landscape	Destruction		Low	Adhere to mitigation measures Avoid significant sensitive sites	Low
	Visual impact	Scenery loss		Low	Rehabilitation	Low
	Waste	Disposal	Decommissioning	Medium	Management standards	Positive
	Re-vegetation	Re-growth		Low	Regular inspection	Positive
	Exposed area Rehab	Re-vegetation	After closure	Low	Regular inspection Removal of invader species	Positive
	Safety risks	Waste disposal		Low	Closure standards	Positive
Processing plant	Vegetation	Loss	Construction	Medium	Vegetation clearing control Rehabilitation	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		Low	Rehabilitation Topographical placement	Low

	Soil	Pollution		High	Immediate rehabilitation Continuous inspections Chemical handling protocol Equipment maintenance	Medium
	Grazing	Loss		Low	Rehabilitation Restriction to cleared areas	Low
	Vegetation	Loss/disturbance		Low	Restriction to cleared areas Rehabilitation	Low
	Water table	Depressed		Low	Water use minimization	Low

	Vegetation	Invader plants		Medium	Domestic waste handling Regular removal	Low
	Fauna			Low	-	Low
	Water quality	Loss		High	Soil pollution management Storm water management Waste water management	Low
	Noise	Elevated levels		Low	-	Low
	Air quality	Degradation		Medium	Dampening of exposed area	Low
	Archaeological items	Loss		High	Avoid sites of significance	-
	Sensitive landscape	Destruction		Medium	Avoid significant sensitive sites Adhere to mitigation measures	Low
	Visual impact	Scenery loss		Medium	Rehabilitation	Low
	Waste	Disposal	Decommissioning	High	Management standards	Positive
	Re-vegetation	Re-growth		Medium	Regular inspection	Positive
	Exposed area Rehab	Re-vegetation	After closure	Medium	Regular inspection Removal of invader species	Positive
	Safety risks	Waste disposal		Medium	Closure standards	Positive
Ablution facility	Vegetation	Loss	Construction	Low	Construction near offices Vegetation clearing control Rehabilitation	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		-	-	-

Soil / Litter	Pollution	Medium	Facility maintenance Immediate clean-up	Low
Grazing	Loss	Low	Rehabilitation	Low
Vegetation	Loss/disturbance	Low	Rehabilitation	Low
Water table	Depressed	Low	Water use management	Low
Vegetation	Invader plants	Low	Regular removal	Low
Fauna		-	-	-
Water quality (waste water)	Loss	Medium	Waste water management Regular septic tank draining	Low
Noise	Elevated levels	-	-	-
Air quality	Degradation	-	-	-
Archaeological items	Loss	High	Avoid significant sites	-

	Sensitive landscape	Destruction		Low	Rehabilitation Facility maintenance	Low
	Visual impact	Scenery loss		Low	Rehabilitation	Low
	Waste	Disposal	Decommissioning	Medium	Management standards	Positive
	Re-vegetation	Re-growth		Low	Regular inspection	Positive
	Exposed area Rehab	Re-vegetation	After closure	Low	Regular inspection	Positive
	Safety risks	Waste disposal		Low	Closure standards	Positive
Vehicle parking						
Parking lot	Vegetation	Loss	Construction	Medium	Vegetation clearing control	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		-	-	-
	Soil	Pollution		High	Regular inspections Immediate rehabilitation Drip-tray installation Vehicle maintenance	Medium
	Grazing	Loss		Medium	Rehabilitation Restriction to cleared areas	Low
	Vegetation	Loss/disturbance		Medium	Restriction to cleared areas Rehabilitation	Low
	Water table	Depressed		-	-	-
	Vegetation	Invader plants		Medium	Regular removal Continuous inspections Domestic waste handling	Low
	Fauna			Low	Waste management	Low
	Water quality (storm water)	Storm water		Medium	Storm water management Soil pollution management	Low
	Noise	Elevated levels		Low	Silencer systems on vehicles	Low
	Air quality	Degradation		Low	Damping of mine roads. Speed restriction	Low
	Archaeological items	Loss		High	Avoid sites of significance	-

	Sensitive landscape	Destruction		Medium	Avoid significant sensitive sites Adhere to mitigation measures Rehabilitation	Low
	Visual impact	Scenery loss		Medium	Rehabilitation	Low
	Waste	Disposal	Decommissioning	Medium	Management standards	Positive
	Re-vegetation	Re-growth		Medium	Regular inspection	Positive
	Exposed area Rehab	Re-vegetation	After closure	Low	Regular inspection Removal of invader species	Positive
	Safety risks	Waste disposal		Medium	Closure standards	Positive
Wash by	Vegetation	Loss	Construction	Medium	Vegetation clearing control	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		-	-	-
	Soil	Pollution		High	Immediate rehabilitation Regular inspections Adhere to mitigation measures	Medium
	Grazing	Loss		Low	Rehabilitation Restriction to cleared areas	Low
	Vegetation	Loss/disturbance		Low	Restriction to cleared areas Rehabilitation	Low
	Water table	Depressed		Low	Water usage management	Low
	Vegetation	Invader plants		Medium	Regular removal Domestic waste handling	Low
	Fauna			Low	Waste management	Low
	Water quality (waste water)	Loss		High	Waste water management Draining/cleaning of waste water Biodegradable detergents	Low
	Noise	Elevated levels		Low	-	Low
	Air quality	Degradation		Low	Dampening of exposed area	Low
	Archaeological items	Loss		High	Avoid sites of significance Restriction to roads	-

	Sensitive landscape	Destruction		High	Avoid significant sensitive sites Adhere to mitigation measures Waste water management Rehabilitation	Low
	Visual impact	Scenery loss		Medium	Rehabilitation Waste/metal management	Low
	Waste	Disposal	Decommissioning	High	Management standards	Positive
	Re-vegetation	Re-growth		Medium	Regular inspection	Positive

	Exposed area Rehab	Re-vegetation	After closure	Medium	Regular inspection Removal of invader species	Positive
	Safety risks	Waste disposal		Medium	Closure standards	Positive
Parts store room	Vegetation	Loss	Construction	Medium	Vegetation clearing control	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		-	-	-
	Soil	Pollution		High	Immediate rehabilitation Regular inspections Adhere to mitigation measures	Low
	Grazing	Loss		Low	Rehabilitation	Low
	Vegetation	Loss/disturbance		Low	Rehabilitation	Low
	Water table	Depressed		-	-	-
	Vegetation	Invader plants		Medium	Regular removal	Low
	Fauna			Low	-	Low
	Water quality (storm water)	Loss		Medium	Storm water management Soil pollution management	Low
	Noise	Elevated levels		-	-	-
	Air quality	Degradation		Low	Dampening of exposed area	Low
	Archaeological items	Loss		High	Avoid sites of significance	-
	Sensitive landscape	Destruction		Medium	Avoid significant sensitive sites Adhere to mitigation measures	Low
	Visual impact	Scenery loss		Medium	Rehabilitation Waste/metal management	Low
	Waste	Disposal	Decommissioning	Medium	Management standards	Positive

	Re-vegetation	Re-growth		Low	Regular inspection	Positive
	Exposed area Rehab	Re-vegetation	After closure	Low	Regular inspection	Positive
	Safety risks	Waste disposal		Medium	Closure standards	Positive
Scrap yard	Vegetation	Loss	Construction	Medium	Vegetation clearing control	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		-	-	-
	Soil	Pollution		High	Immediate rehabilitation Regular inspections Adhere to mitigation measures	Medium

	Grazing	Loss		Medium	Rehabilitation Restriction to cleared areas	Low
	Vegetation	Loss/disturbance		Medium	Restriction to cleared areas Rehabilitation	Low
	Water table	Depressed		-	-	-
	Vegetation	Invader plants		Medium	Regular removal Domestic waste handling Continuous inspections	Low
	Fauna			Low	Waste management	Low
	Water quality (storm water)	Loss		Medium	Storm water management Soil pollution management Waste management	Low
	Noise	Elevated levels		-	-	-
	Air quality	Degradation		-	-	-
	Archaeological items	Loss		High	Avoid sites of significance	-
	Sensitive landscape	Destruction		Medium	Avoid significant sensitive sites Adhere to mitigation measures	Low
	Visual impact	Scenery loss		Medium	Rehabilitation Waste/metal management	Low
	Waste	Disposal	Decommissioning	High	Management standards	Positive
	Re-vegetation	Re-growth		High	Regular inspection	Positive
	Exposed area Rehab	Re-vegetation	After closure	Medium	Regular inspection Removal of invader species	Positive
	Safety risks	Waste disposal		Medium	Closure standards	Positive
Temporary Workshop facility	Vegetation	Loss	Construction	Medium	Vegetation clearing control Rehabilitation	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		-	-	-
	Soil	Pollution		High	Immediate rehabilitation Regular inspections Adhere to mitigation measures Waste management	Medium

	Grazing	Loss		Low	Rehabilitation	Low
	Vegetation	Loss/disturbance		Low	Rehabilitation	Low
	Water table	Depressed		-	-	-
	Vegetation	Invader plants		Medium	Domestic waste handling Regular removal	Low
	Fauna			Low	Waste management	Low
	Water quality (storm water)	Loss		Medium	Storm water management Soil pollution management	Low
	Noise	Elevated levels		Low	-	Low
	Air quality	Degradation		-	-	-
	Archaeological items	Loss		High	Avoid sites of significance	-
	Sensitive landscape	Destruction		Low	Rehabilitation Adhere to mitigation measures	Low
	Visual impact	Scenery loss		Medium	Rehabilitation Waste management	Low
	Waste	Disposal	Decommissioning	Medium	Management standards	Positive
	Re-vegetation	Re-growth		Medium	Regular inspection	Positive
	Exposed area Rehab	Re-vegetation	After closure	Low	Regular inspection Removal of invader species	Positive
	Safety risks	Waste disposal		Medium	Closure standards	Positive
Chemical and hydrocarbon fluid storage	Vegetation	Loss	Construction	Low	Vegetation clearing control Construction near offices Rehabilitation	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		-	-	-
	Soil	Pollution		Medium	Chemical handling protocol Chemical waste management Immediate rehabilitation	Low
	Grazing	Loss		Low	Rehabilitation	Low
	Vegetation	Loss/disturbance		Low	Rehabilitation	Low
	Water table	Depressed		-	-	-

	Vegetation	Invader plants		Low	Regular removal	Low
	Fauna			Low	Chemical handling protocol Chemical waste management	Low
	Water quality (storm water)	Loss		Medium	Storm water management Soil pollution management	Low

	Noise	Elevated levels		-	-	-
	Air quality	Degradation		-	-	-
	Archaeological items	Loss		High	Avoid sites of significance	-
	Sensitive landscape	Destruction		Low	Rehabilitation	Low
	Visual impact	Scenery loss		Low	-	Low
	Waste	Disposal	Decommissioning	Medium	Management standards	Positive
	Re-vegetation	Re-growth		Low	Regular inspection	Positive
	Exposed area Rehab	Re-vegetation	After closure	Medium	Regular inspection Removal of invader species	Positive
	Safety risks	Waste disposal		Medium	Closure standards	Positive
Diesel storage	Vegetation	Loss	Construction	Medium	Vegetation clearing control Construction near offices Rehabilitation	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		-	-	-
	Soil	Pollution		High	Regular maintenance Regular inspections Immediate rehabilitation Operation procedures	Low
	Grazing	Loss		Low	Restriction to cleared areas Rehabilitation	Low
	Vegetation	Loss/disturbance		Low	Restriction to cleared areas Rehabilitation	Low
	Water table	Depressed		-	-	-
	Vegetation	Invader plants		Low	Regular removal	Low

	Fauna			Medium	Soil pollution management Immediate rehabilitation	Low
	Water quality (storm water)	Loss		Medium	Soil pollution management Storm water management	Low
	Noise	Elevated levels		-	-	-
	Air quality	Degradation		-	-	-
	Archaeological items	Loss		High	Avoid sites of significance	-
	Sensitive landscape	Destruction		Medium	Avoid significant sensitive sites Adhere to mitigation measures	Low

	Visual impact	Scenery loss		Low	Rehabilitation	Low
	Waste	Disposal	Decommissioning	High	Management standards	Positive
	Re-vegetation	Re-growth		Medium	Regular inspection	Positive
	Exposed area Rehab	Re-vegetation	After closure	Medium	Regular inspection	Positive
	Safety risks	Waste disposal		High	Closure standards	Positive
Domestic waste facility	Vegetation	Loss	Construction	Low	Vegetation clearing control	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		-	-	-
	Soil /Litter	Pollution		Low	Immediate clean-up Continuous inspection	Low
	Grazing	Loss		Low	Rehabilitation	Low
	Vegetation	Loss/disturbance		Low	Rehabilitation	Low
	Water table	Depressed		-	-	-
	Vegetation	Invader plants		Medium	Regular removal	Low
	Fauna			Medium	Adhere to mitigation measures Immediate clean-up Fencing of site	Low
	Water quality (storm water)	Loss		Low	Storm water control	Low
	Noise	Elevated levels		-	-	-
	Air quality	Degradation		-	-	-
	Archaeological items	Loss		Low	Avoid sites of significance	-
	Sensitive landscape	Destruction		Low	Avoid significant sensitive sites Adhere to mitigation measures	Low
	Visual impact	Scenery loss		Low	Waste management Litter pollution management Rehabilitation	Low
	Waste	Disposal	Decommissioning	Medium	Management standards	Positive
	Re-vegetation	Re-growth		Low	Regular inspection	Positive
	Exposed area Rehab	Re-vegetation	After closure	Low	Regular inspection Removal of invader species	Positive
	Safety risks	Waste disposal		Low	Closure standards	Positive

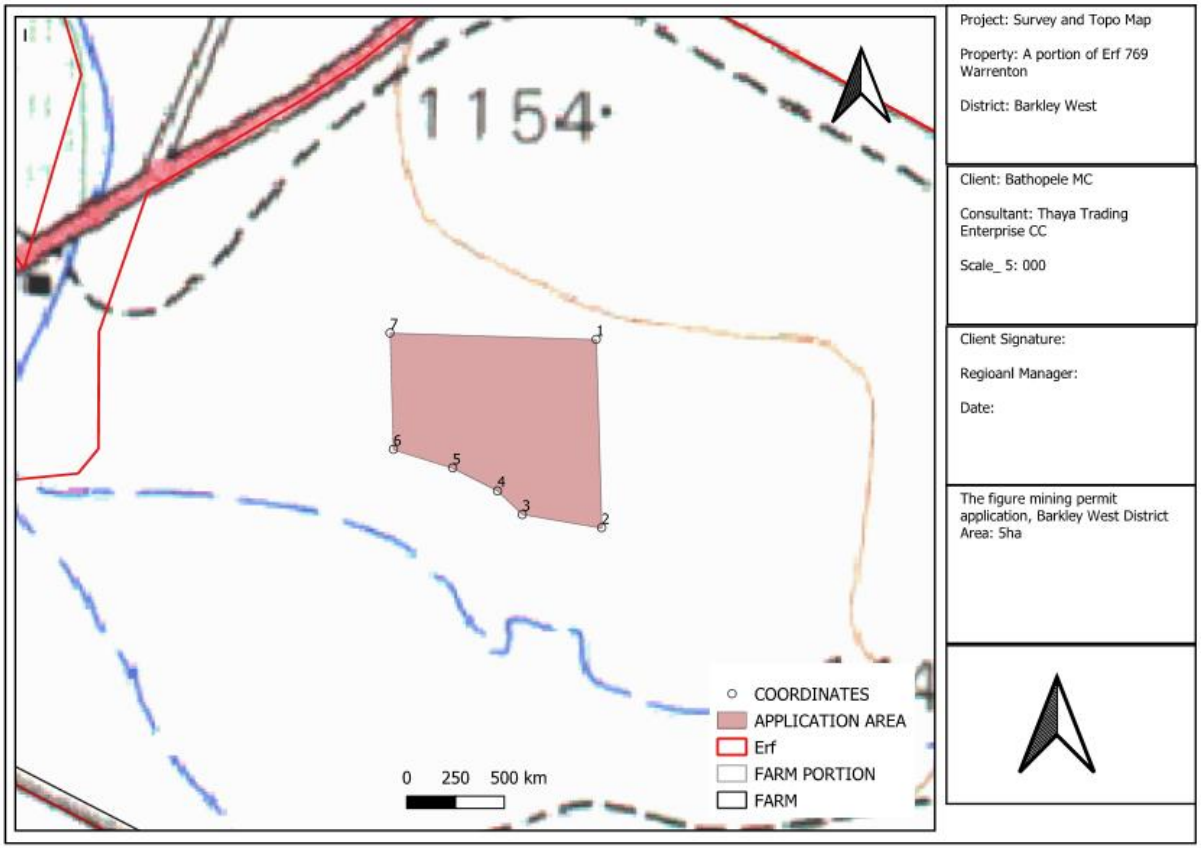
Access and hauling roads	Vegetation	Loss	Construction	Medium	Make use of existing roads Minimum roads possible Rehabilitation	Low
	Geological	Loss	Operational	-	-	-
	Topographic	Change		Low	Rehabilitation	Low
	Soil	Pollution		High	Vehicle maintenance Regular inspections Immediate rehabilitation	Medium
	Grazing	Loss		Medium	Restriction to roads Rehabilitation	Low
	Vegetation	Loss/disturbance		Medium	Restriction to roads Rehabilitation	Low
	Water table	Depressed		-	-	-
	Vegetation	Invader plants		Medium	Domestic waste handling Regular inspections Removal of invader species	Low
	Fauna			Low	Silencer systems on vehicles Minimum traffic possible Speed restriction	Low
	Water quality (storm water)	Loss		Low	Soil pollution management Storm water control	Low
	Noise	Elevated levels		Low	Silencer systems on vehicles	Low
	Air quality	Degradation		Low	Dampening of mine roads Speed restrictions	Low
	Archaeological items	Loss		High	Restriction to roads Avoid sites of significance	-
	Sensitive landscape	Destruction		Medium	Minimum roads possible Soil pollution management Rehabilitation	Low

	Visual impact	Scenery loss		Low	Dust control measures Rehabilitation	Low
	Waste	Disposal	Decommissioning	Medium	Management standards	Positive
	Re-vegetation	Re-growth		Medium	Regular inspection	Positive
	Exposed area Rehab	Re-vegetation	After closure	Medium	Regular inspection Removal of invader species	Positive
	Safety risks	Waste disposal		Low	Closure standards	Positive

1.3 Composite Map

(Provide a map (**Attached as an Appendix**) at an appropriate scale which superimposes the proposed activity, its associated structures and infrastructure on the environmental sensitivities of the preferred site, indicating any areas that any areas that should be avoided, including buffers)

A complete and accurate Composite map cannot be drafted and provided at this stage as adequate mine planning needs to be done after the issuing of the Mining permit before commencement of any activities.



1.4 Description of Impact management objectives including management statements

1.4.1 Determination of closure objectives

(Ensure that the closure objectives are informed by the type of environment described)

The sole determined objective is to rehabilitate the area during and after mining activities to such an extent that the post-mining environment is almost in the same condition as the original undisturbed environment.

When rehabilitation proves successful the vegetation re-growth must be of such quality that this area can be used as a grazing field for farm livestock.

1.4.2 Volumes and rate of water use required for the operation

The ore recovering process as a whole would require approximately 3 600 m^3 of water per month operational cycle.

Other mining related activities such as the ablution facilities also require the use of water, but the amount of water needed are still unknown at this stage.

1.4.3 Has a water use license has been applied for?

The project applicant is in the process of applying for a water use Authorization. Requirement to apply for such authorization include the Basic Environmental Assessment Report/ Environmental Management Programme.

1.4.4 Impacts to be mitigated in their respective phases

Measures to rehabilitate the environment affected by the undertaking of any listed activity

ACTIVITIES	PHASE	SIZE AND SCALE of disturbance	MITIGATION MEASURES	COMPLIANCE WITH STANDARDS	TIME PERIOD FOR IMPLEMENTATION
(As listed in 2.11.1)	of operation in which activity will take place. State: Planning and design, Pre-construction, Construction, Operational, rehabilitation, Closure, Post closure	(volumes, tonnages and hectares or m^2)	(describe how each of the recommendations herein will remedy the cause of pollution or degradation and migration of pollutants)	(A description of how each of the recommendations herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)	Describe the time period when the measures in the environmental management programme must be implemented. Measures must be implemented when required. With regard to Rehabilitation specifically this must take place at the earliest opportunity. With regard to Rehabilitation therefore state either:- Upon cessation of the individual activity Or Upon the cessation of mining, bulk sampling or alluvial diamond prospecting as the case may be
Total Application		**± 5 ha**			
Mining		**< 4 ha**			

Excavations	Construction	< 3 ha	• The only necessary vegetation will be cleared • On vegetation clearing should any nests with chicks or eggs be discovered a local nature conservation officer shall be called to relocate the species	• Minimizing unnecessary vegetation loss • Promote animal conservation in preventing loss of animal life	• Commencement of activity • Commencement of activity

			• Soil shall be exposed for a minimum time as possible once cleared of vegetation. The timing in clearing shall be co-ordinated as much as possible to avoid prolonged exposure to wind and water erosion.	• Prevent the forming of erosion channels and soil loss	• Commencement of activity • Integrated into activity
			• No indigenous shrubs of trees will be unnecessarily uprooted	• Conservation of indigenous vegetation species	• Commencement of activity • Integrated into activity
			• Overburden and topsoil will be stored separately next to the excavation.	• Safeguarding of natural seedbed to ensure successful rehabilitation	• Commencement of activity • Integrated into activity

	Operational		• When working on equipment outside the workshop appropriate measures need to be implemented to prevent chemical spillage	• Avoid hydro-carbon fluid spillage as far as possible	• Integrated into activity
			• On accidental spillage the contaminated soil will be removed and appropriately stored till the removal thereof	• Avoid ground sterilization and/or disturbance of vegetation regrowth	• Integrated into activity • Decommissioning of activity
			• Stored topsoil will be evenly spread to recover the area	• Finalizing rehabilitation and ensure indigenous vegetation regrowth from natural seedbed	• Integrated into activity • Decommissioning of activity

			• The area must be continuously inspected for spillages and remediated immediately	• Minimizing the probability of soil pollution, ground sterilization and/or disturbance of vegetation regrowth	• Integrated into activity
			• All vehicle traffic are restricted to the roads and demarcated traffic areas	• Avoiding vegetation loss and ground compactions, which can lead to ground erosion	• Commencement of activity • Integrated into activity
			• Washing of equipment shall be restricted to urgent maintenance requirements only	• Prevention soil pollution and ground sterilization as far as possible	• Integrated into activity
			• No indigenous shrubs or trees will unnecessarily uprooted and used for fire wood	• Minimizing unnecessary vegetation loss and species conservation	• Commencement of activity • Integrated into activity
			• If any invade species are observed the reporting thereof to the rehabilitation site manager is highly recommended	• Conservation of indigenous vegetation through the suppression of invader species growth	• Integrated into activity • Decommissioning of activity • Closure of activity
			• Employees will be advised to stay clear from any wild animals or reptiles and not to disturb or provoke them in any manner	• Preventing unnecessary stress in animals, loss of life and/or employee injury	• Commencement of activity • Integrated into activity • Decommissioning of activity

			• The mine shall be responsible for compliance with the relevant legislation in respect to noise	• Minimizing noise disturbance having an impact on residents and fauna	• Integrated into activity
			• Hearing protection will be made available to all employees where attenuation cannot be implemented	• Health and Safety requirement preventing hearing loss of employees	• Integrated into activity
			• Every vehicle in operation will be equipped with a silencer on the exhaust system	• Minimizing noise disturbance having an impact on residents and fauna	• Integrated into activity
			• Suppression of dust on cleared areas will occur by the spraying of chemical bounded/fresh/recycled water	• Health and Safety as well as NEMA requirement ensuring good air quality and preventing related lung illnesses	• Integrated into activity
			• Littering of any product, including cigarette buds, at any operational site shall be seen as an offence and will not be tolerated	• Avoid possible animal suffering and scenery degradation	• Commencement of activity • Integrated into activity • Decommissioning of activity
			• The mine shall be responsible for any cleaning up resulting from the failure by his employees or suppliers	• With all measures in place is the mine still ultimately responsible for environmental conservation	• Integrated into activity • Decommissioning of activity

			• The mine shall ensure that all vehicle and heavy vehicle drivers are aware of procedures and restrictions in terms of this document	• Forming part of the mine's Environmental Awareness initiative and strategies	• Commencement of activity • Integrated into activity
			• Fire extinguishers will be kept in good order and serviced regularly	• Fire extinguishers will be kept in good order and serviced regularly	• Integrated into activity
			• Hard hats, earplugs, safety glasses, dust masks, gloves, hard-point boots, reflector vests and reflective overalls in compulsory before entering this area	• Health and Safety requirement preventing employee injury and/or possible loss of life	• Commencement of activity • Integrated into activity
			• The entrance will be clearly marked with all regulatory signs, to indicate a potential dangerous zone	• Health and Safety as well as Mineral Act requirement preventing public individual injury	• Commencement of activity
			• Related waste/scrap must be disposed of in the appropriate manner	• Waste management standard preventing fauna and/or human injury as well as environmental degradation	• Integrated into activity • Decommissioning of activity

	Decommissioning		• The excavation will be backfilled according standard set within this document and finalized with overburden and topsoil	• Environmental closure objective to create a sustainable environment after operation	• Integrated into activity • Decommissioning of activity

			• All chemical spills will be rehabilitated immediately	• Avoid ground sterilization and/or disturbance of vegetation regrowth	• Integrated into activity • Decommissioning of activity
			• Rip and rehabilitate all compacted areas	• Remedying compacted areas to prevent erosion and promote vegetation regrowth	• Integrated into activity • Decommissioning of activity
			• Where necessary rehabilitation will be finalized by the spreading of fertile soil and planting of indigenous species, with regular inspection for the removal of invader species	• Managing vegetation regrowth and promoting indigenous species establishment	• Decommissioning of activity • Closure of activity
	After closure		• A 2 to 3 year after care plan is initiated to ensure a satisfying vegetation regrowth rate and the successful establishment of indigenous vegetation	• Environmental closure objective to create a sustainable environment after operations	• Closure of activity

Topsoil and overburden	Construction	< 0.2 ha	• The only necessary vegetation will be cleared • On vegetation clearing should any nests with chicks or eggs be discovered a local nature conservation officer shall be called to relocate the species	• Minimizing unnecessary vegetation loss • Promote animal conservation in preventing loss of animal life	• Commencement of activity • Integrated into activity • Commencement of activity

	Operational		• If any invader species are observed the reporting thereof to the rehabilitation site manager is highly recommended	• Conservation of indigenous vegetation through the suppression of invader species growth	• Integrated into activity • Decommissioning of activity
			• Employees will be advised to stay clear from any wild animals or reptiles and not to disturb or provoke them in any manner	• Preventing unnecessary stress in animals, loss of life and/or employee injury	• Integrated into activity
			• Littering of any product, including cigarette buds, any any operational site shall be seen as an offence and will not be tolerated	• Avoid possible animal suffering and scenery degradation	• Commencement of activity • Integrated into activity • Decommissioning of activity
			• The mine shall be responsible for any cleaning up resulting from the failure by his employees or suppliers	• With all measures in place is the mine still ultimately responsible for environmental conservation	• Integrated into activity • Decommissioning of activity

	Decommissioning		• Use dump material to finalize rehabilitation of excavations and disturbed areas • Rip and rehabilitate all compacted areas	• Environmental closure objective to use natural seedbed for final rehabilitation • Remedying compacted areas to prevent erosion and promote vegetation regrowth	• Integrated into activity • Decommissioning of activity • Integrated into activity • Decommissioning of activity

			• Rehabilitation will be finalized by planting of indigenous species with regular inspection for the removal of invader species	• Managing vegetation regrowth and promoting indigenous species establishment	• Decommissioning of activity • Closure of activity
	Closure		• A 2 to 3 year after care plan is initiated to ensure a satisfying vegetation regrowth rate and the successful establishment of indigenous vegetation	• Environmental closure objective to create a sustainable environment after operations	• Closure of activity

Ore dumps	Construction	< 0.3 ha	• Dump placement at plant site • The only necessary vegetation will be cleared • On vegetation clearing should any nests with chicks or eggs be discovered a local conservation officer shall be called to relocate the species	• Minimizing overall footprint and preventing un-necessary vegetation loss • Minimizing vegetation loss • Promote animal conservation in preventing loos of animal life	• Commencement of activity • Commencement of activity • Commencement of activity
	Operational		If any invader species are observed the reporting thereof to the rehabilitation site manager is highly recommended	Conservation of indigenous vegetation through the suppression of invader species growth	• Integrated into activity • Decommissioning of activity

			• Employees will be advised to stay clear from any wild animals or reptiles and not to disturb or provoke them in any manner	• Preventing unnecessary stress in animal, loss of life and/or employee injury	• Commencement of activity • Integrated into activity • Decommissioning of activity
			• Littering of any product, including cigarette buds, at any operational site shall be seen as an offence and will not be tolerated	• Avoid possible animal suffering and scenery degradation	• Commencement of activity • Integrated into activity • Decommissioning of activity
			• The mine shall be responsible for any cleaning up resulting from the failure by his employees or suppliers	• With all measures in place is the mine still ultimately responsible for environmental conservation	• Integrated into activity • Decommissioning of activity
	Decommissioning		• Rip and rehabilitate all compacted areas	• Remedying compacted areas to prevent erosion and promote vegetation regrowth	• Integrated into activity • Decommissioning of activity
			• Rehabilitation will be finalized by planting of indigenous species, where necessary, with the regular inspection for the removal of invader species	• Managing vegetation regrowth and promoting indigenous species establishment	• Decommissioning of activity • Closure of activity

	After closure		• A 2 to 3 year after care plan is initiated to ensure a satisfying vegetation re-growth rate and the successful establishment of indigenous vegetation.	• Environmental closure objective to create a sustainable environment after operations	• Closure of activity
Waste dumps	Construction	< 0.17 ha	• Placement of dump on already disturbed area • The only necessary vegetation will be cleared • On vegetation clearing should any nests with chicks or eggs be discovered a local nature conservation officer shall be called to relocate the species	• Minimizing overall footprint and preventing un-necessary vegetation loss • Minimizing unnecessary vegetation loss • Promote animal conservation in minimizing loss of animal life	• Commencement of activity • Integrated into activity • Commencement of activity • Commencement of activity

	Operational		• Employees will be advised to stay clear from any wild animals or reptiles and not to disturb or provoke them in any manner • Littering of any product including cigarette buds, at any operational site shall be seen as an offence and will not be tolerated	• Preventing unnecessary stress in animals, loss of life and/or employee injury • Avoid possible animal suffering and scenery degradation	• Commencement of activity • Integrated into activity • Decommissioning of activity • Commencement of activity • Integrated into activity • Decommissioning of activity

			• The mine shall be responsible for any cleaning up resulting from the failure by his employees or suppliers	• With all measures in place is the mine still ultimately responsible for environmental conservation	• Integrated into activity • Decommissioning of activity
	Decommissioning		• Rip and rehabilitate all compacted areas. • Rehabilitation will be finalized by planting of indigenous species, where necessary, with regular inspection for the removal of invader species.	• Remedying compacted areas to prevent erosion and promote vegetation regrowth • Managing vegetation regrowth and promoting indigenous species establishment	• Integrated into activity • Decommissioning of activity • Decommissioning of activity • Closure of activity

	After closure		• A 2 to 3 year after care plan is initiated to ensure a satisfying vegetation re-growth rate and the successful establishment of indigenous vegetation.	• Environmental closure objective to create a sustainable environment after operations	• Closure of activity
Stockpiles	Construction	< 0.3 ha	• Placement near office site • The only necessary vegetation will be cleared	• Minimizing overall footprint and preventing un-necessary vegetation loss • Minimizing vegetation loss	• Commencement of activity • Commencement of activity

			• On vegetation clearing should any nests with chicks or eggs be discovered a local conservation officer shall be called to relocate the species	• Promote animal conservation in preventing loos of animal life	• Commencement of activity

	Operational		• If any invader species are observed the reporting thereof to the rehabilitation site manager is highly recommended	• Conservation of indigenous vegetation through the suppression of invader species growth	• Integrated into activity • Decommissioning of activity
			• Employees will be advised to stay clear from any wild animals or reptiles and not to disturb or provoke them in any manner	• Preventing unnecessary stress in animal, loss of life and/or employee injury	• Commencement of activity • Integrated into activity • Decommissioning of activity
			• Littering of any product, including cigarette buds, at any operational site shall be seen as an offence and will not be tolerated	• Avoid possible animal suffering and scenery degradation	• Commencement of activity • Integrated into activity • Decommissioning of activity
			• The mine shall be responsible for any cleaning up resulting from the failure by his employees or suppliers	• With all measures in place is the mine still ultimately responsible for environmental conservation	• Integrated into activity • Decommissioning of activity
	Decommissioning		• Rip and rehabilitate all compacted areas	• Remedying compacted areas to prevent erosion and promote vegetation regrowth	• Integrated into activity • Decommissioning of activity

			Rehabilitation will be finalized by planting of indigenous species, where necessary, with the regular inspection for the removal of invader species	Managing vegetation regrowth and promoting indigenous species establishment	• Decommissioning of activity • Closure of activity
	After closure		A 2 to 3 year after care plan is initiated to ensure a satisfying vegetation re-growth rate and the successful establishment of indigenous vegetation.	Environmental closure objective to create a sustainable environment after operations	Closure of activity
Mine related infrastructure		**0.5499 ha**			

Office block	Construction	0.0025 ha	• All buildings will consist of appropriate sign indicating function • The only necessary vegetation will be cleared • On vegetation clearing should any nests with chicks or eggs be discovered a local nature conservation officer shall be called to relocate the species • No indigenous shrubs or trees will be unnecessarily uprooted	• Health and Safety requirement preventing employee injury • Minimizing unnecessary vegetation loss • Promote animal conservation in preventing loss of animal life • Minimizing unnecessary vegetation loss and species conservation	• Commencement of activity • Integrated into activity • Commencement of activity • Commencement of activity • Commencement of activity • Integrated into activity

	Operational		• Suppression of dust on cleared areas will occur by the spraying of chemical bounded/fresh/recycled water.	• Health and Safety as well as NEMA requirement ensuring good air quality and preventing related lung illnesses	• Integrated into activity
			• Littering of any product, including cigarette buds, at any operation site shall be seen as an offence and will not be tolerated	• Avoid possible animal suffering and scenery degradation	• Commencement of activity • Integrated into activity • Decommissioning of activity
			• Domestic waste containers will be installed and easily accessible	• Preventing litter pollution and scenery degradation	• Commencement of activity • Integrated into activity • Decommissioning of activity
			• The mine shall be responsible for any cleaning up resulting from the failure by his employees or suppliers.	• With all measures in place is the mine still ultimately responsible for environmental conservation	• Integrated into activity • Decommissioning of activity
			• The mine shall ensure that all suppliers and the delivery drivers are aware of procedures and restrictions in terms of this document	• Forming part of the mine's Environmental Awareness initiative and strategies	• Commencement of activity • Integrated into activity
			• Fire extinguishers will be kept in good order and serviced regularly	• Preventing fires that may lead to run-away field fires causing severe vegetation loss and endangering the lives of the community	• Commencement of activity • Integrated into activity

	Decommissioning		• All structures will be broken down and removed from site • All chemical spills will be rehabilitated immediately • Compacted areas will be ripped to a depth of 300 mm to provide a growth medium • Regular inspection for the removal of invader species	• Rehabilitation needs to comply with closure objectives • Avoid ground sterilization and/or disturbance of vegetation regrowth • Remedying compacted areas to prevent erosion and promote vegetation regrowth • Managing vegetation regrowth and promoting indigenous species establishment	• Decommissioning of activity • Integrated into activity • Decommissioning of activity • Decommissioning of activity • Decommissioning of activity • Closure of activity
	After closure		□ A 2 to 3 year after care plan is initiated to ensure a satisfying vegetation re-growth rate and the successful establishment of indigenous vegetation.	□ Environmental closure objective to create a sustainable environment after operations	□ Closure of activity

Processing plant	Construction	0.5 ha	• The only necessary vegetation will be cleared • On vegetation clearing should any nest with chicks or eggs be discovered must a local nature conservation offices be called to relocate the species	• Minimizing unnecessary vegetation loss • Promote animal conservation in preventing loss of animal life	• Commencement of activity • Commencement of activity

			• All infrastructure will be equipped with appropriate signs indicating function and potential dangers	• Health and Safety requirement preventing employee injury	• Commencement of activity • Integrated into activity

	Operational		• When working on equipment outside the workshop the appropriate measures need to be implemented to prevent chemical spillage	• Avoid hydro-carbon fluid spillage as far as possible	• Integrated into activity
			• Old diesel and related chemicals must be discarded within appropriate marked close containers and stored in the chemical storage facility till removal thereof	• Avoiding hydro-carbon fluid spillage as far as possible	• Integrated into activity • Decommissioning of activity
			• On accidental spillage the contaminated soil will be removed and appropriately stored till the removal thereof	• Avoid ground sterilization and/or disturbance of vegetation regrowth	• Integrated into activity
			• The area must be continuously inspected for spillages and remediated immediately	• Minimize the probability of soil pollution, ground sterilization and/or disturbance of vegetation regrowth	• Integrated into activity
			• All vehicle traffic are restricted to the roads and demarcated traffic areas	• Avoiding vegetation loss and ground compaction, which can lead to ground erosion	• Commencement of activity • Integrated into activity

			• Washing of equipment shall be restricted to urgent maintenance requirements only	• Prevent soil pollution and ground sterilization as far as possible	• Integrated into activity
			• No indigenous shrubs or trees will unnecessarily uprooted and used for fire wood	• Minimizing unnecessary vegetation loss and promote the conservation of species	• Commencement of activity • Integrated into activity
			• If any invader species are observed the reporting to the rehabilitation site manager is highly recommended	• Conservation of indigenous vegetation through the suppression of invader species growth	• Integrated into activity • Decommissioning of activity
			• Employees will be advised to stay clear from any wild animals or reptiles and not to disturb or provoke them in any manner	• Preventing unnecessary stress in animals, loss of life and/or employee injury	• Commencement of activity • Integrated into activity • Decommissioning of activity
			• A site will be identified and colour coded water tanks will be erected for safe human consumption.	• Basic Employment Act requirement insuring fresh water availability for human consumption	• Commencement of activity • Integrated into activity
			• The mine shall be responsible for compliance with the relevant legislation in respect to noise	• Minimizing noise disturbance having an impact on surrounding areas and fauna	• Integrated into activity
			• Hearing protection will be made available to all employees where attenuation cannot be implemented	• Health and Safety requirement preventing hearing loss of employees	• Integrated into activity

			• Every vehicle in operation will be equipped with a silencer on the exhaust system • Suppression of dust on cleared areas will occur by the spraying of chemical bounded/fresh/recycled water • Littering of any product, including cigarette buds, at any operational site shall be seen as an offence and will not be tolerated • The mine shall be responsible for any cleaning up resulting from the failure by his employees or suppliers • The mine shall ensure that all suppliers and the delivery drivers are aware of procedures and restrictions in terms of this document • Fire extinguishers will be kept in good order and serviced regularly	• Minimizing noise disturbance having an impact on residents and fauna • Health and safety as well as NEMA requirement ensuring good air quality and preventing related lung illnesses • Avoid possible animal suffering and scenery degradation • With all measures in place is the mine still ultimately responsible for environmental conservation • With all measures in place is the mine still ultimately responsible for environmental conservation • Preventing fires that may lead to run-away field fires causing sever vegetation loss and threatening communities lives	• Commencement of activity • Integrated into activity • Integrated into activity • Commencement of activity • Integrated into activity • Decommissioning of activity • Integrated into activity • Decommissioning of activity • Forming part of the mine's Environmental Awareness initiative and strategies • Integrated into activity

			• Hard hats, earplugs, safety glasses, dust masks, gloves, hard-point boots, reflector vests, and reflective overalls is compulsory before entering this area	• Health and Safety requirement preventing employee injury and/or possible loss of life	• Commencement of activity • Integrated into activity • Decommissioning of activity
			• The entrance will be clearly marked with all regulatory signs, to indicate a potential dangerous zone	• Health and Safety as well as Mineral Act requirement preventing employee and public individual injury	• Commencement of activity
			• Related waste/scrap must be dispose of in the appropriate manner	• Waste management standard preventing fauna and/or human injury as well as environmental degradation	• Integrated into activity • Decommissioning of activity

	Decommissioning		• All structures will be broken down and removed from site • All chemical spills will be rehabilitated immediately • Rip and rehabilitate all compacted areas	• Rehabilitation needs to be done to comply with closure objectives • Prevent the degradation of environmental health • Remedying compacted areas to prevent erosion and promote vegetation regrowth	• Decommissioning of activity • Integrated into activity • Decommissioning of activity • Integrated into activity • Decommissioning of activity

			• Rehabilitation will be finalized by the spreading of fertile soil, where necessary, and planting of indigenous plant species with regular inspection for the removal of invader species	• Managing vegetation regrowth and promoting indigenous species establishment	• Decommissioning of activity • Closure of activity
	After closure		• A 2 to 3 year after care plan is initiated to ensure a satisfying vegetation re-growth rate and the successful establishment of indigenous vegetation	• Environmental closure objective to create a sustainable environment after operations	• Closure of activity

Ablution facility	Construction	0.0008 ha	• The only necessary vegetation will be cleared • On vegetation clearing should any nests with chicks or eggs be discovered a local nature conservation officer shall be called to relocate the species • No indigenous shrubs or trees will be unnecessarily uprooted • Concealed septic tanks must be installed above ground, where it can be regularly inspected for leakage	• Minimizing unnecessary vegetation loss • Promote animal conservation in preventing loss of animal life • Minimizing vegetation loss and promote the preservation of species • For ease of maintenance and leakage can be seen immediately	• Commencement of activity • Commencement of activity • Commencement of activity • Commencement of activity

	Operational		• Ablution blocks shall at all times be sanitized • Sanitary bins will be provided within the building, no sanitary material will be allowed within the septic tanks • All human waste and related waste will be contained within septic tanks installed for this purpose • Septic tanks and chemical toilets will be chemically treated and maintained by a contracting agency • The local municipality or contracting agency may be contracted on the draining of the septic tank and the removal of its contents to the sewerage plant of their choice • Sanitary material within the bins provided will be closed in colour plastics and disposed of within domestic waste	• Health and Safety issue, avoiding the spread of human diseases • Preventing the burst of the septic tank as well as littered materials creating health risks • Promoting environmental health aby avoiding the spread of diseases and parasites • Health and Safety related preventing spillage and ground contamination • Basic Employment and Sanitation protocol providing a healthy environment and preventing the bursting of tank as well as spillage • Preventing littered materials creating health risks and separation from normal domestic wastes	• Commencement of activity • Integrated into activity • Commencement of activity • Integrated into activity • Integrated into activity • Integrated into activity • Integrated into activity • Decommissioning of activity • Integrated into activity • Decommissioning of activity

			• Employees will be advised to stay clear from any wild animals or reptiles and not to disturb or provoke them in any manner.	• Preventing unnecessary stress in animals, loss of life and/or employee injury	• Integrated into activity
			• Littering of any product, including cigarette buds, at any operational site shall be seen as an offence and will not be tolerated	• Avoid possible animal suffering and unnecessary environmental degradation	• Commencement of activity • Integrated into activity • Decommissioning of activity
			• The mine shall be responsible for any cleaning up resulting from the failure by his employees or suppliers	• With all measures in place is the mine still ultimately responsible for environmental conservation	• Integrated into activity • Decommissioning of activity
			• The mine shall ensure that all suppliers and the delivery drivers are aware of the procedures and restrictions in terms of this document	• Forming part of the mine's Environmental Awareness initiative and strategies	• Commencement of activity • Integrated into activity
			• The entrance will be clearly marked with all regulatory signs	• Regulatory requirement to indicate structure function	• Commencement of activity

	Decommissioning		• All structures will be broken down and removed from site • All spills will be rehabilitated immediately	• Rehabilitation needs to be done to comply with closure objectives • Prevent the degradation of environmental health	• Decommissioning of activity • Integrated into activity • Decommissioning of activity

			• Rip and rehabilitate all compacted	• Remedying compacted areas to prevent erosion and promote vegetation regrowth	• Decommissioning of activity
			• Rehabilitation will be finalized by the spreading of fertile soil, where necessary, and the planting of indigenous species with regular inspection for the removal of invader species	• Managing vegetation regrowth and promoting indigenous species establishment	• Decommissioning of activity • Closure of activity
			• On closure Department of Water Affairs and Sanitation will be consulted in aiding with the rehabilitation of the facility	• Rehabilitation standard, ensuring the correct and successful waste water management procedures	• Decommissioning of activity
	After closure		• A 2 to 3 year after care plan is initiated to ensure a satisfying vegetation re-growth rate and the successful establishment of indigenous vegetation	• Environmental closure objective to create a sustainable environment after operation	• Closure of activity

Vehicle Parking		**0.0358 ha**			
Parking lot	Construction		• A demarcated fenced area away from the operational sight will be cleared for vehicle storage and parking • The only necessary vegetation will be cleared	• Promote pedestrian and visitor safety • Minimizing unnecessary vegetation loss	• Commencement of activity • Integrated into activity • Commencement of activity
			• On vegetation clearing should any nest with chicks or eggs be discovered a local nature conservation officer shall be called to relocate the species • No indigenous shrubs or trees will be unnecessarily uprooted	• Promote animal conservation in preventing loss of animal life • Minimizing vegetation loss and promote the preservation of species	• Commencement of activity • Commencement of activity

	Operational		• Drip-trays will be readily available and no parked heavy vehicle will be without a drip-tray	• Avoid hydro-carbon fluid spillage causing soil sterilization	• Commencement of activity • Integrated into activity
			• No vehicle repairs and maintenance will occur within this area and will be restricted to the workshop	• Preventing hydro-carbon fluid spillage and scattered waste materials	• Integrated into activity
			• Old diesel and related chemicals must be discarded within appropriate marked close containers and stored in the chemical storage facility till removal thereof	• Avoiding hydro-carbon fluid spillage as far as possible	• Integrated into activity • Decommissioning of activity
			• On accidental spillage the contaminated soil will be removed and appropriately stored till the removal thereof. Fertile soil will be evenly spread to the recover the area	• Avoid ground sterilization and/or disturbance of vegetation regrowth	• Integrated into activity

			• The area must be continuously inspected for spillages and remediated immediately	• Minimize the probability of soil pollution, ground sterilization and/or disturbance of vegetation regrowth	• Integrated into activity
			• Suppression of dust on cleared areas will occur by the spraying of chemical bounded/fresh/recycled water	• Preventing and/or minimizing dust upliftment protecting the air quality as far as possible	• Integrated into activity
			• Littering of any product, including cigarette buds, at any operation site shall be seen as an office and will not be tolerated	• Avoid possible animal suffering and scenery degradation	• Integrated into activity
			• The mine shall be responsible for any cleaning up resulting from the failure by his employees or suppliers	• With all measures in place it is still the mine's ultimate responsibility in regard to environmental conservation	• Integrated into activity • Decommissioning of activity
			• The mine shall ensure that all suppliers and the delivery drivers are aware of procedures and restrictions in terms of this document	• Forming part of the mine's Environmental Awareness initiative and strategies	• Commencement of activity • Integrated into activity
			• Fire extinguishers will be kept in good order and serviced regularly	• Preventing fires that may lead to run-away field fires causing severe vegetation loss over vast areas	• Commencement of activity • Integrated into activity

	Decommissioning		• All chemical spills will be rehabilitated immediately • Rip and rehabilitate all compacted areas • Regular inspection for the removal of invader species	• Avoid ground sterilization and/or disturbance of vegetation regrowth • Remedying compacted areas to prevent erosion and promote vegetation regrowth • Managing vegetation regrowth and promoting indigenous species establishment	• Integrated into activity • Decommissioning of activity • Decommissioning of activity • Decommissioning of activity • Closure of activity
	After closure		A 2 to 3 year after care plan is initiated to ensure a satisfying re-growth rate and the successful establishment of indigenous vegetation	Environmental closure objective to create a sustainable environment after operations	Closure of activity

Wash bay	Construction	0.006 ha	• The wash bay will be a barnlike section with a cement floor constructed with a gradient to allow run-off water to be contained into a sump	• Containing of hydro-carbon contaminated water and avoiding soil pollution	• Commencement of activity
			• All buildings will consist of appropriate signs indicating function and potential dangers	• Legislative requirement to avoid employee injury	• Commencement of activity
			• The only necessary vegetation will be cleared	• Minimizing unnecessary vegetation loss	• Commencement of activity
			• On vegetation clearing should any nests with chicks or eggs be discovered a local nature conservation officer shall be called to relocate the species	• Promote animal conservation in minimizing loss of animal life	• Commencement of activity
			• No indigenous shrubs or trees will be unnecessarily uprooted	• Minimizing vegetation loss and preservation of species	• Commencement of activity

	Operational		• Only biodegradable detergents to be used in the cleaning of equipment and vehicles	• Avoiding ground sterilization and/or disturbance of vegetation	• Integrated into activity
			• Suppression of dust on cleared areas will occur by the spraying of chemical bounded/fresh/recycled water	• Preventing and/or minimizing dust upliftment protecting the air quality as far as possible	• Integrated into activity
			• Littering of any product, including cigarette buds, at any operation site shall be seen as an offence and will not be tolerated	• Avoid possible animal suffering and scenery degradation	• Integrated into activity
			• The mine shall be responsible for any cleaning up resulting from the failure by his employees or suppliers	• With all measures in place is it still the mine's ultimate responsibility in regard to environmental conservation	• Integrated into activity • Decommissioning of activity

			• The mine shall ensure that all suppliers and the delivery drivers are aware of procedures and restriction in terms of this document	• Forming part of the mine's Environmental Awareness initiative and strategies	• Commencement of activity • Integrated into activity
			• Fire extinguishers will be kept in good order and serviced regularly	• Preventing fires that may lead to run-away field fires causing severe vegetation loss and endangering the lives of animals and individuals	• Commencement of activity • Integrated into activity
	Decommissioning		• All structures will be broken down and removed from site	• Rehabilitation needs to comply with closure objectives	• Decommissioning of activity
			• All chemical spills will be rehabilitated immediately	• Avoid ground sterilization and/or disturbance of vegetation regrowth	• Integrated into activity • Decommissioning of activity
			• Compacted areas will be ripped and rehabilitated	• Remedying compacted areas to prevent erosion and promote vegetation regrowth	• Decommissioning of activity
			• Regular inspection for the removal of invader species	• Managing vegetation regrowth and promoting indigenous species establishment	• Decommissioning of activity • Closure of activity

	After closure		A 2 year after care plan is initiated to ensure a satisfying vegetation re- growth rate and the successful establishment of indigenous vegetation.	Environmental closure objective to create a sustainable environment after operations	Closure of activity

Parts storeroom	Construction	0.0048 ha	• Storage facilities should consist of an enclosed room consisting of an lockable entrance and cemented floor	• Safekeeping of vehicle parts and equipment as well as protecting unauthorized persons and animals from possible injury	• Commencement of activity • Integrated into activity
			• Structure will consist of appropriate signs indicating function and potential dangers	• Legislative requirement to avoid employee injury	• Commencement of activity
			• The only necessary vegetation will be cleared	• Minimizing unnecessary vegetation loss	• Commencement of activity
			• On vegetation clearing should any nests with chicks or eggs be discovered a local nature conservation offices shall be called to relocate the species	• Promote animal conservation in minimizing loss of animal life	• Commencement of activity
			• No indigenous shrubs or trees will be unnecessarily uprooted	• Minimizing vegetation loss and promote the preservation of species	• Commencement of activity • Integrated into activity

	Operational		• Fire extinguishers for this activity will be available at all times	• Preventing fires that may lead to run-away field fires causing severe vegetation loss over vast areas	• Commencement of activity • Integrated into activity
			• Suppression of dust on cleared areas will occur by the spraying of chemical bounded/fresh/recycled water	• Preventing and/or minimizing dust upliftment protecting the air quality as far as possible	• Integrated into activity
			• Littering of any product, including cigarette buds, at any operational site shall be seen as an offence and will not be tolerated	• Avoid possible animal suffering and scenery degradation	• Integrated into activity
			• The mine shall be responsible for any cleaning up resulting from the failure by his employees or suppliers	• With all measures in place it is still the mine's ultimate responsibility in regard to environmental conservation	• Integrated into activity • Decommissioning of activity
			• The mine shall ensure that all suppliers and delivery drivers are aware of procedures and restriction in terms of this document	• Forming part of the mine's Environmental Awareness initiative and strategies	• Commencement of activity • Integrated into activity

	Decommissioning		• All structures will be broken down and removed from site • All chemical spills will be rehabilitated immediately	• Rehabilitation needs to be done to comply with closure objectives • Preventing the degradation of environmental health	• Decommissioning of activity • Integrated into activity • Decommissioning of activity

			• Compacted areas will be ripped and rehabilitated • Regular inspection for the removal of invader species	• Remedying compacted areas to prevent erosion and promote vegetation regrowth • Managing vegetation regrowth and promoting indigenous species establishment	• Decommissioning of activity • Decommissioning of activity • Closure of activity
	After closure		A 2 to 3 year after care plan is initiated to ensure a satisfying vegetation re-growth rate and the successful establishment of indigenous vegetation	Environmental closure objective to create a sustainable environment after operations	Closure of activity

Scrap yard	Construction	0.005 ha	• A demarcated fenced area away from the operational sight will be cleared for storage of scrap metal and other related waste	• Preventing human and animal injury	• Commencement of activity
			• The only necessary vegetation will be cleared	• Minimizing unnecessary vegetation loss	• Commencement of activity
			• On vegetation clearing should any nest with chicks or eggs be discovered a local nature conservation officer shall be called to relocate the species	• Promote animal conservation in minimizing loss of animal life	• Commencement of activity
			• No indigenous shrubs or trees will be unnecessarily uprooted	• Minimizing vegetation loss and promote the preservation of species	• Commencement of activity • Integrated into activity

	Operational		• Scrap metal and related waste will be stored in an organized manner for ease of reference	• Promoting adequate waste management and prevent employee injury	• Integrated into activity
			• Mechanical parts containing diesel, oil and/or hydraulic fluid must be discarded in the container supplied for these	• Avoiding hydro-carbon fluid spillage as far as possible	• Integrated into activity • Decommissioning of activity
			• On accidental spillage the contaminated soil will be removed and appropriately stored till the removal thereof. Fertile soil will be evenly spread to recover the area	• Avoid ground sterilization and/or disturbance of vegetation regrowth	• Integrated into activity • Decommissioning of activity
			• The area must be continuously inspected for spillages and remediated immediately	• Minimize the probability of soil pollution, ground sterilization	• Integrated into activity
			• Littering of any product, including cigarette buds, at any operational site shall be seen as an offence and will not be tolerated	• Avoid possible animal suffering and scenery degradation	• Integrated into activity
			• The mine shall be responsible for any cleaning up resulting from the failure by his employees or suppliers	• With all measures in place it is still the mine's ultimate responsibility in regard to environmental conservation	• Integrated into activity • Decommissioning of activity

			• The mine shall ensure that all suppliers and the delivery drivers are aware of procedures and restrictions in terms of this document	• Forming part of the min's Environmental Awareness initiative and strategies	• Commencement of activity • Integrated into activity
	Decommissioning		• All waste materials will be removed from site • All chemical spills will be rehabilitated immediately • Rip and rehabilitate all compacted areas • Regular inspection of invader species	• Rehabilitation needs to be done to comply with closure objectives • Prevent the degradation of environmental health • Remedying compacted areas to prevent erosion and promote vegetation regrowth • Managing vegetation regrowth and promoting indigenous species establishment	• Decommissioning of activity • Integrated into activity • Decommissioning of activity • Integrated into activity • Decommissioning of activity • Decommissioning of activity • Closure of activity

	After closure		□ A 2 to 3 year after care plan is initiated to ensure a satisfying vegetation regrowth and the successful establishment of indigenous vegetation	□ Environmental closure objective to create a sustainable environment after operations	□ Closure of activity

Temporary workshop facility	Construction	0.005 ha	• To be constructed near and in the same region as the plant site • The workshop will be a barnlike structure with a cement floor constructed with a gradient to allow run-off water to be contained into a sump • All buildings will consist of appropriate signs indicating function and potential dangers • The only necessary vegetation will be cleared • On vegetation clearing should any nests with chicks of eggs be discovered must a local nature conservation officer be called to relocate the species • No indigenous shrubs or trees will be unnecessarily uprooted	• Minimizing overall footprint of operation • Legislative standards as well as measures to prevent soil pollution and sterilization of the ground • Legislative requirement to avoid employee injury • Minimizing unnecessary vegetation loss • Promote animal conservation in minimizing loss of animal life • Minimizing vegetation loss and promote the preservation of species	• Commencement of activity • Commencement of activity • Commencement of activity • Commencement of activity • Commencement of activity • Commencement of activity • Integrated into activity

	Operational		• All chemical spillage on the floor will be treated to break them down into their natural components before cleaning the floor	• Chemical pollution control and avoiding ground contamination	• Integrated into activity • Decommissioning of activity
			• All diesel, oil and/or related chemicals must be discarded in an appropriate marked closed container and stored till the removal thereof.	• Avoiding hydro-carbon fluid spillage as far as possible	• Integrated into activity • Decommissioning of activity
			• Unusable vehicle and machinery parts will be discarded in a container supplied	• Avoid ground sterilization and/or disturbance of vegetation regrowth	• Integrated into activity
			• Suppression of dust on cleared areas will occur by the spraying of chemical bounded/fresh/recycled water	• Preventing and/or minimizing dust upliftment protecting the air quality as far as possible	• Integrated into activity
			• Littering of any product, including cigarette buds, at any operational site shall be seen as an offence and will not be tolerated	• Avoid possible animal suffering and scenery degradation	• Integrated into activity
			• The mine shall be responsible for any cleaning up resulting from the failure by his employees or suppliers	• With all measures in place is it still the mine's ultimate responsibility in regard to environmental conservation	• Integrated into activity • Decommissioning of activity

			• The mine shall ensure that all suppliers and the delivery drivers are aware of procedures and restrictions in terms of this document	• Forming part of the mine's Environmental awareness initiative and strategies	• Commencement of activity • Integrated into activity
			• Fire extinguishers will be kept in good order and serviced regularly	• Preventing fires that may lead to run-away field fires causing severe vegetation loss and endangering the lives of the community and animal life	• Commencement of activity • Integrated into activity

	Decommissioning		• All structures will be broken down and removed from site • All chemical spills will be rehabilitated immediately • Compacted areas will be ripped and rehabilitated • Regular inspection for the removal of invader species	• Rehabilitation needs to comply with closure objectives • Avoid ground sterilization and/or disturbance of vegetation regrowth • Remedying compacted areas to prevent erosion and promote vegetation regrowth • Managing vegetation regrowth and promoting indigenous species establishment	• Decommissioning of activity • Integrated into activity • Decommissioning of activity • Decommissioning of activity • Decommissioning of activity • Closure of activity

	After closure		□ A 2 to 3 year after care plan is initiated to ensure a satisfying vegetation re-growth rate and the successful establishment of indigenous vegetation	□ Environmental closure objective to create a sustainable environment after operations	□ Closure of activity

Chemical and hydrocarbon fluid storage	Construction	0.0025 ha	• Storage facilities will consist of an enclosed room consisting of a lockable entrance and cemented/ rubberized floor	• Safekeeping of chemicals as well as protecting unauthorized persons and animals from possible injury	• Commencement of activity
			• All buildings will consist of appropriate signs indicating function and potential dangers	• Legislative requirement to avoid employee injury	• Commencement of activity
			• The only necessary vegetation will be cleared	• Minimizing unnecessary vegetation loss	• Commencement of activity
			• On vegetation clearing should any nest with chicks of eggs be discovered a local nature conservation officer shall be called to relocate the species	• Promote animal conservation in minimizing loss of animal life	• Commencement of activity
			• No indigenous shrubs or trees will be unnecessarily uprooted	• Minimizing vegetation loss and preservation of species	• Commencement of activity

	Operational		• Stored chemicals must be in marked closed containers	• Chemical storing protocol, indication danger and remediation steps	• Commencement of activity • Integrated into activity
			• For remediation purposes a neutralizing agent for each chemical must be available at the entrance of the room at all times	• Minimizing soil loss to neutralize rather than remove	• Commencement of activity • Integrated into activity
			• Unused chemicals must be separated from used chemicals as well as each type of chemical will be grouped to prevent cross contamination	• Avoid fire hazard as some chemicals may react with each other	• Commencement of activity • Integrated into activity
			• Chemicals removed from storage will be in approved containers to minimize the possibility of spillage	• Prevent spillage and ground contamination	• Integrated into activity
			• Safety wear for workers will always be available for urgent situation	• Avoid chemical burns and employee injury	• Commencement of activity • Integrated into activity • Decommissioning of activity
			• Fire extinguishers for this purpose will be available at all times	• Preventing fires that may lead to run-away field fires causing severe vegetation loss and endangering community lives	• Commencement of activity • Integrated into activity
			• Chemical waste will be stored in close containers within the chemical storage room	• Chemical handling protocol avoiding spillage and ground contamination	• Integrated into activity

			• All personnel handling chemical related products will follow handling procedures • The mine shall be responsible for any cleaning up resulting from the failure by his employees or suppliers • The mine shall ensure that all suppliers and the delivery drivers are aware of procedures and restrictions in terms of this document • Once the area specified for the chemical waste is approximately 80% full and during decommissioning of the mine, the different agencies dealing with the specific chemicals will be contacted for the safe removal thereof.	• Chemical handling protocol avoiding spillage and ground contamination • With all measures in place is the mine still ultimately responsible for environmental conservation • Forming part of the mine's Environmental Awareness initiate and strategies • Waste handling protocol minimizing environmental risk and ensuring the correct handling of specific chemical	• Commencement of activity • Integrated into activity • Decommissioning of activity • Integrated into activity • Decommissioning of activity • Commencement of activity • Integrated into activity • Integrated into activity • Decommissioning of activity

	Decommissioning		• With decommissioning of the mine, the different agencies dealing with these specific chemicals will be contracted for the safe removal thereof	• Avoiding environmental contamination also a rehabilitation requirement in complying with closure objectives	• Decommissioning of activity
			• All structures will be broken down and removed from site	• Rehabilitation needs to be cone to comply with closure objectives	• Decommissioning of activity
			• All chemical spills will be rehabilitated immediately	• Avoid ground sterilization and/or disturbance of vegetation regrowth	• Integrated into activity • Decommissioning of activity
			• Rip and rehabilitate all compacted areas	• Remedying compacted areas to prevent erosion and promote vegetation regrowth	• Decommissioning of activity
			• Regular inspections for the removal of invader species	• Managing vegetation regrowth and promoting indigenous species establishment	• Decommissioning of activity • Closure of activity

	After closure		A 2 to 3 year after care plan is initiated to ensure a satisfying vegetation re-growth rate and the successful establishment of indigenous vegetation	Environmental closure objective to create a sustainable environment after operations	Closure of activity

Diesel storage	Construction	0.0025 ha	• Diesel tanks will stand in a leak-proof bay, supporting the tank volume plus 10% and a 1.5 m wide cement buffer will encircle the area	• Avoid hydro-carbon fluid spillage causing ground sterilization that can lead to erosion	• Commencement of activity
			• The floor area must be constructed at a gradient and a run-off sump to capture all contaminated water to be treated by a separator	• Avoid hydro-carbon fluid spillage as far as possible causing ground sterilization	• Commencement of activity
			• The structure will consist of appropriate signs indication function and potential dangers	• Regulatory requirement avoiding accidental injury	• Commencement of activity
			• The only necessary vegetation will be cleared	• Minimizing unnecessary vegetation loss	• Commencement of activity
			• On vegetation clearing should any nests with chicks and/or eggs be discovered a local nature conservation officer shall be called to relocate the species	• Promote animal conservation in preventing loss of animal life	• Commencement of activity
			• No indigenous shrubs or trees will be unnecessarily uprooted	• Minimizing vegetation loss and promote the preservation of species	• Commencement of activity • Integrated into activity

	Operational		• Vehicles which are filled with fuel will park on a cement floor for if any spillage occurs it can be cleaned	• Avoid hydro-carbon fluid spillage as far as possible causing ground sterilization	• Integrated into activity
			• Two fire extinguishers will be present at all times	• Preventing fires that may lead to run-away field fires	• Commencement of activity • Integrated into activity
			• Old diesel and related chemical must be discarded within appropriate marked close containers and stored in the storage facility till removal thereof	• Old diesel and related chemicals must be discarded within appropriate marked close containers and stored in t	• Integrated into activity • Decommissioning of activity
			• The area must be continuously inspected for spillages and remediated immediately	• Minimize the probability of soil pollution, ground sterilization and/or disturbance of vegetation regrowth	• Integrated into activity
			• All vehicle traffic are restricted to the roads and demarcated traffic areas	• Avoiding vegetation loss and ground compaction, which can lead to ground erosion	• Integrated into activity
			• Employees will be advised to stay clear from any wild animals or reptiles and not to disturb or provoke them in any manner	• Preventing unnecessary stress in animals, loss of life and/or employee injury	• Commencement of activity • Integrated into activity • Decommissioning of activity

			• Littering of any product, including cigarette buds, at any operation site shall be seen as an offence and will not be tolerated • The mine shall be responsible for any cleaning up resulting from the failure by his employees or suppliers • The mine shall ensure that all suppliers and the delivery drivers are aware of procedures and restriction in terms of this document	• Avoiding possible animal suffering, scenery degradation and possible fire hazard • With all measures in place is the mine still ultimately responsible for environmental conservation • Forming part of the mine's Environmental Awareness initiate and strategies	• Commencement of activity • Integrated into activity • Decommissioning of activity • Integrated into activity • Decommissioning of activity • Commencement of activity • Integrated into activity

	Decommissioning		• All structures will be broken down and removed from site • All spills will be rehabilitated immediately • Rip and rehabilitate all compacted areas • Regular inspection for the removal of invader species	• Rehabilitation needs to be done to comply with the closure objectives • Avoid ground sterilization and/or disturbance of vegetation regrowth • Remedying compacted areas to prevent erosion and promote vegetation regrowth • Managing vegetation regrowth and promoting indigenous species establishment	• Decommissioning of activity • Integrated into activity • Decommissioning of activity • Integrated into activity • Decommissioning of activity • Decommissioning of activity • Closure of activity

	After closure		• A 2 to 3 year after care plan is initiated to ensure a satisfying vegetation re-growth rate and the successful establishment of indigenous vegetation	• Environmental closure objective to create a sustainable environment after closure	• Closure of activity

Domestic waste facility	Construction	0.0008 ha	• Marked containers will be made available for storage of domestic waste • Placement near office and plant site • The only necessary vegetation will be cleared • On vegetation clearing should any nest with chicks or eggs be discovered a local nature conservation officer shall be called to relocate the species • No indigenous shrubs or trees will be unnecessarily uprooted	• Avoiding mixing of domestic and chemical containing waste • Minimizing overall mine footprint and environmental disturbance • Minimizing unnecessary vegetation loss • Promote animal conservation in preventing loss of animal life • Minimizing vegetation loss and promote the preservation of species	• Commencement of activity • Integrated into activity • Commencement of activity • Commencement of activity • Commencement of activity • Commencement of activity
	Operational		• Domestic waste will be kept in closed marked containers • Containers will be removed and a weekly basis	• Avoid windblown litter and/or protection against scavengers • Waste handling protocol in keeping the environment clean	• Commencement of activity • Integrated into activity • Integrated into activity

			• Domestic waste will be dumped at a registered site for such disposal • The mine shall be responsible for any cleaning up resulting from the failure by his employees or suppliers	• Waste management protocol in preventing unnecessary litter pollution • With all measures in place is it still the mine's responsibility to ensure environmental conservation	• Integrated into activity • Decommissioning of activity • Integrated into activity • Decommissioning of activity
	Decommissioning		• The specific agencies dealing with domestic waste will be contracted for the removal thereof • All scattered domestic waste will be clean-up immediately • Rip and rehabilitated all compacted areas • Regular inspection for the removal of invader species	• Preventing litter pollution and promote the safe removal of waste • Preventing litter pollution, scenery degradation and possible animal suffering • Remedying compacted areas to prevent erosion and promote vegetation regrowth • Managing vegetation regrowth and promoting indigenous species establishment	• Integrated into activity • Decommissioning of activity • Integrated into activity • Decommissioning of activity • Decommissioning of activity • Decommissioning of activity • Closure of activity

	After closure		A 2 to 3 year after care plan is initiated to ensure a satisfying vegetation regrowth rate and the successful establishment of indigenous vegetation	Environmental closure objective to create a sustainable environment after operation	Closure of activity

Access and hauling roads	Construction	0.4 ha	• As far as possible will it be made use of existing roads • Only when it is utmost necessarily will new roads be scrapped • No foreign materials will be used in the construction of roads • The only necessary vegetation will be cleared • On vegetation clearing should any nest with chicks and/or eggs be discovered a local nature conservation officer shall be called to relocate the species • No indigenous shrubs or trees will be unnecessarily uprooted • Roads will be marked with the appropriate signs for safety	• Avoid unnecessary environmental disturbance and vegetation loss • Avoid unnecessary environmental disturbance and vegetation loss • Eliminate excessive rehabilitation cost, as all foreign materials must be removed • Minimizing unnecessary vegetation loss • Promote animal conservation in preventing loss of animal life • Minimizing vegetation loss and promote the preservation of species • Regulatory requirement ensuring employee and public individual safety	• Commencement of activity • Integrated into activity • Commencement of activity • Integrated into activity • Commencement of activity • Integrated into activity • Commencement of activity • Integrated into activity • Commencement of activity • Commencement of activity • Integrated into activity • Commencement of activity

	Operational		• Roads must be continuously inspected for spillages and remediated immediately	• Minimize the probability of soil pollution, ground sterilization and/or disturbance of vegetation regrowth	• Integrated into activity
			• All vehicle traffic are restricted to the roads and demarcated traffic areas	• Avoiding vegetation loss and ground compaction, which can lead to ground erosion	• Integrated into activity
			• If any invader species are observed the reporting thereof to the rehabilitation officer is highly recommended	• Managing vegetation conservation in preventing the growth of invader species	• Integrated into activity • Decommissioning of activity
			• Employees will be advised to stay clear from any wild animals or reptiles and not to disturb or provoke them in any manner	• Preventing unnecessary stress in animals, loss of life and/or employee injury	• Commencement of activity • Integrated into activity
			• Suppression of dust on roads will occur by the spraying of chemical bounded/fresh/ recycled water	• Preventing and/or minimizing dust upliftment protecting the air quality as far as possible	• Integrated into activity
			• Littering of any product, including cigarette buds, at any operational site shall be seen as an offence and will not be tolerated	• Avoid possible animal suffering and scenery degradation	• Commencement of activity • Integrated into activity • Decommissioning of activity

			▯ The mine shall be responsible for any cleaning up resulting from the failure by his employees or suppliers	▯ With all measures in place, the mine is still ultimately responsible for environmental conservation	• Integrated into activity • Decommissioning of activity
	Decommissioning		• All chemical spills will be rehabilitated immediately • Rip and rehabilitate all compacted areas • Regular inspection for the removal of invader species	• Avoid ground sterilization and/or disturbance of vegetation regrowth • Remedying compacted areas to prevent erosion and promote vegetation regrowth • Managing vegetation regrowth and promoting indigenous species establishment	• Integrated into activity • Decommissioning of activity • Integrated into activity • Decommissioning of activity • Decommissioning of activity • Closure of activity
	After closure		▯ A 2 to 3 year after care plan is initiated to ensure a satisfying vegetation re-growth rate and the successful establishment of indigenous vegetation	▯ Environmental closure objective to create a sustainable environment after operation	▯ Closure of activity

OTHER MITIGATION MEASURES NOT LISTED WITH LISTED ACTIVITIES

- Vehicles will be equipped with a red flag on a long enough rod to be easily observed by the heavy vehicle drivers
- Personnel will need to be trained on health and safety matters in line with the Health and Safety Act for mining and in the handling and remediation of chemical spills, fire and first aid
- Daily checking of oil/diesel leakages before any vehicle is operated
- Waste storage containers shall be covered, tip-proof, weather proof and scavenger proof
- The waste storage area shall be fenced off to prevent windblown litter

- The mine shall ensure that all facilities are maintained in a neat and tidy condition and the site shall be kept free of litter
- No burning, on site burning or dumping of waste material, inclusive of receptacles, scrap, rubble and ty`res, shall occur
- Contracts with the local municipality / agencies will be signed for the removal of waste containers on an appropriate schedule
- Access road maintenance throughout the entire project timeframe
- All mine roads will be ripped to loosen the ground for vegetation re-growth for rehabilitation purposes
- No development of temporary or permanent infrastructure will be allowed within the 100 m floodline of any major and perennial drainage channels
- Valid permits from the Provincial Nature Conservation will be obtained before any protected plant species are removed. On removal of these species will a coordinated point be logged and mapped. Once the area has been rehabilitated, seedlings of the removed species will be replanted on that specific point and growth monitored
- If any endangered animal species are encountered at least two of the Nature Conservation Departments will be contracted and informed of the animal encountered and its current state and whereabouts
- No mining or mining related activities will be conducted in areas of graves and burial sites, Archaeological and Paleontological sites as well as areas or sites of special scientific inters
- Any mining activity planned in the 100 m floodline will be subjected to an NWA Section 21 (c) and (i) Authorization form the Department of Water and Sanitation

 All spray lights for roads and where infrastructure is located will be positions in such a way that the beam of light and its reflection is away from any public road

 A complaints register must be implemented and issues raised must be addressed in a scheduled meeting with all relevant interested and//or affected parties.

1.5 Impact Management Outcomes

(A description of impact management outcomes, identifying the standard of impact management required for the aspects contemplated in paragraph ()

ACTIVITY Whether listed or not listed. (E.g. Excavations, blasting, stockpiles, discard dumps or dams, loading, hauling and transport, water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyers, etc... etc.... etc.).	**POTENTIAL IMPACT** (E.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air pollution etc... etc... etc.	**ASPECTS AFFECTED**	**PHASE** In which impact is anticipated (e.g. Construction, commissioning, operational, decommissioning, closure, post-closure)	**MITIGATION TYPE** (modify, remedy, control, or stop) Through (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activity etc. etc) E.g. • Modify through alternative method • Control through noise control • Controlling through management and monitoring • Remedy through rehabilitation.	**STANDARDS TO BE ACHIEVED** (Impact avoided, noise levels, dust levels, rehabilitation standards, end use objectives etc.)
Mining					
Mine excavations	Vegetation	Loss	Construction	Restriction to roads Vegetation clearing control Rehabilitation	Impact avoided Impact minimized Impact remedied
	Geological	Loss	Operational	Rehabilitation	Impact minimized
	Topographic	Change		Rehabilitation	Impact remedied
	Soil	Pollution		Immediate rehabilitation Regular inspections Vehicle maintenance	Impact remedied Impact managed Impact avoided
	Grazing field	Loss		Rehabilitation Restriction to cleared areas	Impact remedied Impact minimized
	Vegetation	Los / disturbance		Rehabilitation Restriction to cleared areas	Impact remedied Impact minimized

	Water table	Depressed		-	-

	Vegetation	Invader plants		Domestic waste handling Regular removal Report to environmental officer	Impact avoided Impact minimized Impact managed
	Fauna			-	-
	Water quality (storm water)	Loss		Storm water management	Impact minimized
	Noise	Elevated levels		Silencer systems on vehicles	Impact minimized
	Air quality	Degradation		Speed restrictions Dampening of mine roads	Impact minimized Impact managed
	Archaeological items	Loss		Avoid sites of significance	Impact avoided
	Sensitive landscape	Destruction		Rehabilitation Avoid significant sensitive sites	Impact remedies Impact avoided
	Visual impact	Scenery loss		-	-
	Waste	Disposal	Decommissioning	Management standards	Impact avoided
	Vegetation	Re-growth		Regular inspections	Rehabilitation standards
	Area rehabilitation	Re-Vegetation	After closure	Regular inspections Removal of invader species	Rehabilitation standards Rehabilitation standards
	Safety risks	Waste Disposal		Closure standards	Impact remedied
Topsoil and overburden	Vegetation	Loss	Construction	Vegetation clearing control Dump placement Rehabilitation	Impact minimized Impact managed Impact remedies
	Geological	Loss	Operational	-	-
	Topographic	Change		Rehabilitation	Impact remedied
	Soil	Pollution		-	-

	Grazing field	Loss		Dump placement Vegetation clearing control Rehabilitation	Impact managed Impact minimized Impact remedied
	Vegetation	Los / disturbance		Dump placement Vegetation clearing control Rehabilitation	Impact managed Impact minimized Impact remedied

	Water table	Depressed		-	-
	Vegetation	Invader plants		Regular removal Report to environmental officer	Impact minimized Impact managed
	Fauna			-	-
	Water quality (storm water)	Loss		Storm water management	Impact minimized
	Noise	Elevated levels		-	-
	Air quality	Degradation		Protect against wind erosion	Impact minimized
	Archaeological items	Loss		Avoid sites of significance	Impact avoided
	Sensitive landscape	Destruction		Avoid significant sensitive sites Adhere to mitigation measures	Impact avoided Impact mitigated
	Visual impact	Scenery loss		Rehabilitation	Impact remedied
	Waste	Disposal	Decommissioning	Management standards	Impact avoided
	Vegetation	Re-growth		Rehabilitation Regular inspections	Impact remedied Rehabilitation standards
	Area rehabilitation	Re-Vegetation	After closure	Regular inspections Removal of invader species	Rehabilitation standards Rehabilitation standards
	Safety risks	Waste Disposal		Closure standards	Impact remedied
Ore dumps	Vegetation	Loss	Construction	Placement at plant site	Impact minimized
	Geological	Loss	Operational	-	-

	Topographic	Change		Rehabilitation Dump placement	Impact remedied Impact minimized
	Soil	Pollution		-	-
	Grazing field	Loss		Dump placement Rehabilitation	Impact managed Impact remedied
	Vegetation	Los / disturbance		Dump placement Rehabilitation	Impact managed Impact remedied
	Water table	Depressed		-	-
	Vegetation	Invader plants		Regular removal Report to environmental officer	Impact minimized Impact managed

	Fauna			-	-
	Water quality (storm water)	Loss		Storm water management	Impact minimized
	Noise	Elevated levels		-	-
	Air quality	Degradation		-	-
	Archaeological items	Loss		Avoid sites of significance	Impact avoided
	Sensitive landscape	Destruction		Avoid significant sensitive sites Adhere to mitigation measures	Impact avoided Impact mitigated
	Visual impact	Scenery loss		Rehabilitation	Impact remedied
	Waste	Disposal	Decommissioning	Management standards	Impact avoided
	Vegetation	Re-growth		Rehabilitation Regular inspections	Impact remedied Rehabilitation standards
	Area rehabilitation	Re-Vegetation	After closure	Regular inspections Removal of invader species	Rehabilitation standards Rehabilitation standards
	Safety risks	Waste Disposal		Closure standards	Impact remedied
Waste dumps	Vegetation	Loss	Construction	Dump placement Rehabilitation	Impact minimized Impact remedies

	Geological	Loss	Operational	-	-
	Topographic	Change		Rehabilitation	Impact remedied
	Soil	Pollution		-	-
	Grazing field	Loss		Dump placement Rehabilitation	Impact minimized Impact remedied
	Vegetation	Los / disturbance		Dump placement Rehabilitation	Impact minimized Impact remedied
	Water table	Depressed		-	-
	Vegetation	Invader plants		Regular removal Report to environmental officer	Impact minimized Impact managed
	Fauna			-	-
	Water quality (storm water)	Loss		Storm water management	Impact minimized

	Noise	Elevated levels		-	-
	Air quality	Degradation		-	-
	Archaeological items	Loss		Avoid sites of significance	Impact avoided
	Sensitive landscape	Destruction		Avoid significant sensitive sites Adhere to mitigation measures	Impact avoided Impact mitigated
	Visual impact	Scenery loss		Rehabilitation	Impact remedied
	Waste	Disposal	Decommissioning	Management standards	Impact avoided
	Vegetation	Re-growth		Regular inspections	Rehabilitation standards
	Area rehabilitation	Re-Vegetation	After closure	Regular inspections Removal of invader species	Rehabilitation standards Rehabilitation standards
	Safety risks	Waste Disposal		Closure standards	Impact remedied
Stockpiles	Vegetation	Loss	Construction	Dump placement	Impact minimized
	Geological	Loss	Operational	-	-
	Topographic	Change		Dump placement	Impact managed

	Soil	Pollution		-	-
	Grazing field	Loss		Restriction to cleared areas Rehabilitation Dump placement	Impact managed Impact remedied Impact minimized
	Vegetation	Los / disturbance		Dump placement Vegetation clearing control Rehabilitation	Impact managed Impact minimized Impact remedied
	Water table	Depressed		-	-
	Vegetation	Invader plants		Removal of invaders	Impact minimized
	Fauna			-	-
	Water quality (storm water)	Loss		Storm water management	Impact minimized
	Noise	Elevated levels		-	-
	Air quality	Degradation		-	-
	Archaeological items	Loss		Avoid sites of significance	Impact avoided

	Sensitive landscape	Destruction		Dump placement Adhere to mitigation measures	Impact avoided Impact mitigated
	Visual impact	Scenery loss		Rehabilitation	Impact remedied
	Waste	Disposal	Decommissioning	Management standards	Impact avoided
	Vegetation	Re-growth		Regular inspections	Rehabilitation standards
	Area rehabilitation	Re-Vegetation	After closure	Regular inspections Invader plant removal	Rehabilitation standards Rehabilitation standards
	Safety risks	Waste Disposal		Closure standards	Impact remedied
Mine infrastructure					
Office site	Vegetation	Loss	Construction	Vegetation clearing control	Impact minimized
	Geological	Loss	Operational	-	-
	Topographic	Change		-	-
	Soil	Pollution		Immediate rehabilitation Continuous inspections	Impact remedied Impact managed
	Grazing field	Loss		Rehabilitation Traffic restriction to cleared areas	Impact remedied Impact minimized
	Vegetation	Los / disturbance		Rehabilitation Traffic restriction to cleared areas	Impact remedied Impact minimized
	Water table	Depressed		Water consumption restriction	Impact managed
	Vegetation	Invader plants		Regular removal Continuous inspections	Impact minimized Impact managed
	Fauna			-	-
	Water quality (waste water)	Loss		Waste water management	Impact managed
	Noise	Elevated levels		-	-
	Air quality	Degradation		Dampening of exposed area	Impact minimized
	Archaeological items	Loss		Avoid sites of significance	Impact avoided

	Sensitive landscape	Destruction		Avoid significant sensitive sites Adhere to mitigation measures	Impact avoided Impact mitigated
	Visual impact	Scenery loss		Rehabilitation	Impact remedied

	Waste	Disposal	Decommissioning	Management standards	Impact avoided
	Vegetation	Re-growth		Regular inspections	Rehabilitation standards
	Area rehabilitation	Re-Vegetation	After closure	Regular inspections Removal of invader species	Rehabilitation standards Rehabilitation standards
	Safety risks	Waste Disposal		Closure standards	Impact remedied
Processing plant	Vegetation	Loss	Construction	Vegetation clearing control Rehabilitation	Impact minimized Impact remedies
	Geological	Loss	Operational	-	-
	Topographic	Change		Rehabilitation Topographical placement	Impact remedied Impact minimized
	Soil	Pollution		Immediate rehabilitation Continuous inspections Chemical handling protocol Equipment maintenance	Impact remedied Impact managed Impact avoided Impact avoided
	Grazing field	Loss		Rehabilitation Restriction to cleared areas	Impact remedied Impact minimized
	Vegetation	Los / disturbance		Restriction to cleared areas Rehabilitation	Impact minimized Impact remedied
	Water table	Depressed		Water use minimization	Impact managed
	Vegetation	Invader plants		Domestic waste handling Regular removal	Impact avoided Impact minimized
	Fauna			-	-
	Water quality	Loss		Soil pollution management Storm water management Waste water management	Impact avoided Impact minimized Impact managed

	Noise	Elevated levels		-	-
	Air quality	Degradation		Dampening of exposed area	Impact minimized
	Archaeological items	Loss		Avoid sites of significance	Impact avoided
	Sensitive landscape	Destruction		Avoid significant sensitive sites Adhere to mitigation measures	Impact avoided Impact mitigated

	Visual impact	Scenery loss		Rehabilitation	Impact remedied
	Waste	Disposal	Decommissioning	Management standards	Impact avoided
	Vegetation	Re-growth		Regular inspections	Rehabilitation standards
	Area rehabilitation	Re-Vegetation	After closure	Regular inspections Removal of invader species	Rehabilitation standards Rehabilitation standards
	Safety risks	Waste Disposal		Closure standards	Impact remedied
Ablution	Vegetation	Loss	Construction	Construction near offices Vegetation clearing control Rehabilitation	Impact minimized Impact minimized Impact remedied
	Geological	Loss	Operational	-	-
	Topographic	Change		-	-
	Soil	Pollution		Facility maintenance Immediate clean-up	Impact avoided Impact remedied
	Grazing field	Loss		Rehabilitation	Impact remedied
	Vegetation	Los / disturbance		Rehabilitation	Impact remedied
	Water table	Depressed		Water use management	Impact managed
	Vegetation	Invader plants		Regular removal	Impact minimized
	Fauna			-	-
	Water quality (waste water)	Loss		Waste water management Regular septic tank draining	Impact managed Impact managed
	Noise	Elevated levels		-	-
	Air quality	Degradation		-	-
	Archaeological items	Loss		Avoid sites of significance	Impact avoided
	Sensitive landscape	Destruction		Rehabilitation Facility maintenance	Impact remedied Impact avoided
	Visual impact	Scenery loss		Rehabilitation	Impact remedied
	Waste	Disposal	Decommissioning	Management standards	Impact avoided

	Vegetation	Re-growth		Regular inspection	Rehabilitation standards
	Area rehabilitation	Re-Vegetation	After closure	Regular inspection	Rehabilitation standards
	Safety risks	Waste Disposal		Closure standards	Impact remedied

Vehicle parking					
Parking lot	Vegetation	Loss	Construction	Vegetation clearing control	Impact minimized
	Geological	Loss	Operational	-	-
	Topographic	Change		-	-
	Soil	Pollution		Regular inspections Immediate rehabilitation Drip-tray installation Vehicle maintenance	Impact managed Impact remedied Impact avoided Impact avoided
	Grazing field	Loss		Restriction to cleared areas Rehabilitation	Impact avoided Impact remedied
	Vegetation	Los / disturbance		Restriction to cleared areas Rehabilitation	Impact avoided Impact remedied
	Water table	Depressed		-	-
	Vegetation	Invader plants		Regular removal Continuous inspections Domestic waste handling	Impact minimized Impact managed Impact avoided
	Fauna			Waste management	Impact avoided
	Water quality (storm water)	Loss		Storm water management Soil pollution management	Impact minimized Impact avoided
	Noise	Elevated levels		Silencer system on vehicles	Impact minimized
	Air quality	Degradation		Dampening of exposed area Speed restriction	Impact minimized Impact managed
	Archaeological items	Loss		Avoid sites of significance	Impact avoided

	Sensitive landscape	Destruction		Avoid significant sensitive sites Adhere to mitigation measures Rehabilitation	Impact avoided Impact mitigated Impact remedied
	Visual impact	Scenery loss		Rehabilitation	Impact remedied
	Waste	Disposal	Decommissioning	Management standards	Impact avoided
	Vegetation	Re-growth		Regular inspection	Rehabilitation standards
	Area rehabilitation	Re-Vegetation	After closure	Regular inspection Removal of invader species	Rehabilitation standards Rehabilitation standards
	Safety risks	Waste Disposal		Closure standards	Impact remedied
Wash bay	Vegetation	Loss	Construction	Vegetation clearing control	Impact minimized
	Geological	Loss	Operational	-	-
	Topographic	Change		-	-
	Soil	Pollution		Immediate rehabilitation Regular inspections Adhere to mitigation measures	Impact remedied Impact managed Impact mitigated
	Grazing field	Loss		Rehabilitation Restriction to cleared areas	Impact remedied Impact minimized
	Vegetation	Los / disturbance		Restriction to cleared areas Rehabilitation	Impact minimized Impact remedied
	Water table	Depressed		Water use management	Impact managed
	Vegetation	Invader plants		Regular removal Domestic waste handling	Impact minimized Impact avoided
	Fauna			Waste management	Impact avoided
	Water quality (waste water)	Loss		Waste water management Draining/cleaning of waste water Biodegradable detergents	Impact managed Impact managed Impact avoided
	Noise	Elevated levels		-	-

	Air quality	Degradation		Dampening of exposed area	Impact minimized
	Archaeological items	Loss		Avoid sites of significance	Impact avoided
	Sensitive landscape	Destruction		Avoid significant sensitive sites Adhere to mitigation measures Waste water management Rehabilitation	Impact avoided Impact mitigated Impact avoided Impact remedied
	Visual impact	Scenery loss		Rehabilitation Waste/metal management	Impact remedied Impact minimized

	Waste	Disposal	Decommissioning	Management standards	Impact avoided
	Vegetation	Re-growth		Regular inspections	Rehabilitation standards
	Area rehabilitation	Re-Vegetation	After closure	Regular inspections Removal of invader species	Rehabilitation standards Rehabilitation standards
	Safety risks	Waste Disposal		Closure standards	Impact remedied
Parts store room	Vegetation	Loss	Construction	Vegetation clearing control	Impact minimized
	Geological	Loss	Operational	-	-
	Topographic	Change		-	-
	Soil	Pollution		Immediate rehabilitation Regular inspections Adhere to mitigation measures	Impact remedied Impact managed Impact mitigated
	Grazing field	Loss		Rehabilitation	Impact remedied
	Vegetation	Los / disturbance		Rehabilitation	Impact remedied
	Water table	Depressed		-	-
	Vegetation	Invader plants		Regular removal	Impact minimized
	Fauna			-	-
	Water quality (storm water)	Loss		Storm water management Soil pollution management	Impact minimized Impact avoided
	Noise	Elevated levels		-	-

	Air quality	Degradation		Dampening of exposed area	Impact minimized
	Archaeological items	Loss		Avoid sites of significance	Impact avoided
	Sensitive landscape	Destruction		Avoid significant sensitive sites Adhere to mitigation measures	Impact avoided Impact mitigated
	Visual impact	Scenery loss		Rehabilitation Waste/metal management	Impact remedied Impact minimized
	Waste	Disposal	Decommissioning	Management standards	Impact avoided
	Vegetation	Re-growth		Regular inspections	Rehabilitation standards
	Area rehabilitation	Re-Vegetation	After closure	Regular inspections	Rehabilitation standards
	Safety risks	Waste Disposal		Closure standards	Impact remedied

Scrap yard	Vegetation	Loss	Construction	Vegetation clearing control	Impact minimized
	Geological	Loss	Operational	-	-
	Topographic	Change		-	-
	Soil	Pollution		Immediate rehabilitation Regular inspections Adhere to mitigation measures	Impact remedied Impact managed Impact mitigated
	Grazing field	Loss		Rehabilitation Restriction to cleared areas	Impact remedied Impact minimized
	Vegetation	Los / disturbance		Restriction to cleared areas Rehabilitation	Impact minimized Impact remedied
	Water table	Depressed		-	-
	Vegetation	Invader plants		Regular removal Continuous inspections	Impact minimized Impact managed
	Fauna			Waste management	Impact avoided
	Water quality (storm water)	Loss		Storm water management Soil pollution management Waste management	Impact minimized Impact avoided Impact avoided

	Noise	Elevated levels		-	-
	Air quality	Degradation		-	-
	Archaeological items	Loss		Avoid sites of significance	Impact avoided
	Sensitive landscape	Destruction		Avoid significant sensitive sites Adhere to mitigation measures	Impact avoided Impact mitigated
	Visual impact	Scenery loss		Rehabilitation Waste/metal management	Impact remedied Impact minimized
	Waste	Disposal	Decommissioning	Management standards	Impact avoided
	Vegetation	Re-growth		Regular inspections	Rehabilitation standards
	Area rehabilitation	Re-Vegetation	After closure	Regular inspections Removal of invader species	Rehabilitation standards Rehabilitation standards
	Safety risks	Waste Disposal		Closure standards	Impact remedied

Temporary workshop facility	Vegetation	Loss	Construction	Vegetation clearing control Rehabilitation	Impact minimized Impact remedies
	Geological	Loss	Operational	-	-
	Topographic	Change		-	-
	Soil	Pollution		Immediate rehabilitation Regular inspections Adhere to mitigation measures Waste management	Impact remedied Impact managed Impact mitigated Impact avoided
	Grazing field	Loss		Rehabilitation	Impact remedied
	Vegetation	Los / disturbance		Rehabilitation	Impact remedied
	Water table	Depressed		-	-
	Vegetation	Invader plants		Domestic waste handling Regular removal	Impact avoided Impact minimized
	Fauna			Waste management	Impact avoided

	Water quality (storm water)	Loss		Storm water management Soil pollution management	Impact minimized Impact avoided
	Noise	Elevated levels		-	-
	Air quality	Degradation		-	-
	Archaeological items	Loss		Avoid sites of significance	Impact avoided
	Sensitive landscape	Destruction		Rehabilitation Adhere to mitigation measures	Impact remedied Impact mitigated
	Visual impact	Scenery loss		Rehabilitation Waste management	Impact remedied Impact minimized
	Waste	Disposal	Decommissioning	Management standards	Impact avoided
	Vegetation	Re-growth		Regular inspections	Rehabilitation standards
	Area rehabilitation	Re-Vegetation	After closure	Regular inspections Removal of invader species	Rehabilitation standards Rehabilitation standards
	Safety risks	Waste Disposal		Closure standards	Impact remedied

Chemical and hydrocarbon fluid storage	Vegetation	Loss	Construction	Vegetation clearing control Construction near offices Rehabilitation	Impact managed Impact minimized Impact remedied
	Geological	Loss	Operational	-	-
	Topographic	Change		-	-
	Soil	Pollution		Chemical handling protocol Chemical waste management Immediate rehabilitation	Impact avoided Impact avoided Impact remedied
	Grazing field	Loss		Rehabilitation	Impact remedied
	Vegetation	Los / disturbance		Rehabilitation	Impact remedied
	Water table	Depressed		-	-
	Vegetation	Invader plants		Regular removal	Impact minimized

	Fauna			Chemical handling protocol Chemical waste management	Impact avoided Impact avoided
	Water quality (storm water)	Loss		Storm water management Soil pollution management	Impact minimized Impact avoided
	Noise	Elevated levels		-	-
	Air quality	Degradation		-	-
	Archaeological items	Loss		Avoid sites of significance	Impact avoided
	Sensitive landscape	Destruction		Rehabilitation	Impact remedied
	Visual impact	Scenery loss		-	-
	Waste	Disposal	Decommissioning	Management standards	Impact avoided
	Vegetation	Re-growth		Regular inspection	Rehabilitation standards
	Area rehabilitation	Re-Vegetation	After closure	Regular inspection Removal of invader species	Rehabilitation standards Rehabilitation standards
	Safety risks	Waste Disposal		Closure standards	Impact remedied

Diesel storage	Vegetation	Loss	Construction	Vegetation clearing control Construction near offices Rehabilitation	Impact managed Impact minimized Impact remedied
	Geological	Loss	Operational	-	-
	Topographic	Change		-	-
	Soil	Pollution		Regular maintenance Regular inspections Immediate rehabilitation Operation procedures	Impact avoided Impact managed Impact remedies Impact avoided

	Grazing field	Loss		Rehabilitation Restriction to cleared areas	Impact remedied Impact avoided
	Vegetation	Los / disturbance		Restriction to cleared areas Rehabilitation	Impact avoided Impact remedied
	Water table	Depressed		-	-
	Vegetation	Invader plants		Regular removal	Impact minimized
	Fauna			Soil pollution management Immediate rehabilitation	Impact avoided Impact avoided
	Water quality (storm water)	Loss		Soil pollution management Storm water management	Impact avoided Impact minimized
	Noise	Elevated levels		-	-
	Air quality	Degradation		-	-
	Archaeological items	Loss		Avoid sites of significance	Impact avoided
	Sensitive landscape	Destruction		Avoid significant sensitive sites Adhere to mitigation measures	Impact avoided Impact mitigated
	Visual impact	Scenery loss		Rehabilitation	Impact remedied
	Waste	Disposal	Decommissioning	Management standards	Impact avoided
	Vegetation	Re-growth		Regular inspection	Rehabilitation standards
	Area rehabilitation	Re-Vegetation	After closure	Regular inspection	Rehabilitation standards
	Safety risks	Waste Disposal		Closure standards	Impact remedied

Domestic waste	Vegetation	Loss	Construction	Vegetation clearing control	Impact managed
	Geological	Loss	Operational	-	-
	Topographic	Change		-	-
	Soil/Litter	Pollution		Immediate clean-up Continuous inspections	Impact remedied Impact managed
	Grazing field	Loss		Rehabilitation	Impact remedied
	Vegetation	Los / disturbance		Rehabilitation	Impact remedied

	Water table	Depressed		-	-
	Vegetation	Invader plants		Regular removal	Impact minimized
	Fauna			Adhere to mitigation measures Immediate clean-up Fencing of site	Impact mitigated Impact remedied Impact minimized
	Water quality (storm water)	Loss		Storm water control	Impact minimized
	Noise	Elevated levels		-	-
	Air quality	Degradation		-	-
	Archaeological items	Loss		Avoid sites of significance	Impact avoided
	Sensitive landscape	Destruction		Avoid significant sensitive sites Adhere to mitigation measures	Impact avoided Impact mitigated
	Visual impact	Scenery loss		Waste management Litter pollution management Rehabilitation	Impact avoided Impact managed Impact remedied
	Waste	Disposal	Decommissioning	Management standards	Impact avoided
	Vegetation	Re-growth		Regular inspection	Rehabilitation standards
	Area rehabilitation	Re-Vegetation	After closure	Regular inspection Removal of invader species	Rehabilitation standards Rehabilitation standards
	Safety risks	Waste Disposal		Closure standards	Impact remedied

Access and hauling roads	Vegetation	Loss	Construction	Make use of existing roads Minimum roads possible Rehabilitation	Impact avoided Impact minimized Impact remedied
	Geological	Loss	Operational	-	-
	Topographic	Change		Rehabilitation	Impact remedied
	Soil	Pollution		Vehicle maintenance Regular inspections Immediate rehabilitation	Impact avoided Impact managed Impact remedied
	Grazing field	Loss		Restriction to roads Rehabilitation	Impact avoided Impact remedied
	Vegetation	Los / disturbance		Restriction to roads Rehabilitation	Impact avoided Impact remedied
	Water table	Depressed		-	-
	Vegetation	Invader plants		Domestic waste handling Regular inspections Removal of invader species	Impact avoided Impact managed Impact minimized
	Fauna			Silencer systems on vehicles Minimum traffic possible Speed restrictions	Impact minimized Impact managed Impact managed
	Water quality (storm water)	Loss		Soil pollution management Storm water control	Impact avoided Impact minimized
	Noise	Elevated levels		Silencer system on vehicles	Impact minimized
	Air quality	Degradation		Dampening of mine roads Speed restriction	Impact minimized Impact minimized
	Archaeological items	Loss		Avoid sites of significance Restriction to roads	Impact avoided Impact avoided

	Sensitive landscape	Loss		Minimum roads possible Soil pollution management Rehabilitation	Impact minimized Impact avoided Impact remedied
	Visual impact	Scenery loss		Dust control measures Rehabilitation	Impact minimized Impact remedied
	Waste	Disposal	Decommissioning	Management standards	Impact avoided
	Vegetation	Re-growth		Regular inspection	Rehabilitation standards
	Area rehabilitation	Re-Vegetation	After closure	Regular inspection Removal of invader species	Rehabilitation standards Rehabilitation standards
	Safety risks	Waste Disposal		Closure standards	Impact remedied

1.6 Impact Management Actions

(A description of impact management actions, identifying the manner in which the impact management objectives and outcomes contemplate in paragraphs (1.3) and (1.4) will be achieved)

ACTIVITY Whether listed or not listed. (E.g. Excavations, blasting, stockpiles, discard dumps or dams, loading, hauling and transport, water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyers, etc... etc.... etc.)..	POTENTIAL IMPACT (E.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air pollution etc... etc... etc.	MITIGATION TYPE (modify, remedy, control, or stop) Through (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activity etc. etc) E.g. • Modify through alternative method • Control through noise control • Controlling through management and monitoring • Remedy through rehabilitation.	TIME PERIOD FOR IMPLEMENTATION Describe the time period when the measures in the environmental management programme must be implemented. Measures must be implemented when required. With regard to Rehabilitation specifically this must take place at the earliest opportunity. With regard to Rehabilitation therefore state either:- Upon cessation of the individual activity Or Upon the cessation of mining, bulk sampling or alluvial diamond prospecting as the case may be.	COMPLIANCE WITH STANDARDS (A description of how each of the recommendations in 2.11.6 read with 2.12.and 2.15.2 herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)
Mining				
Mining excavations	Vegetation loss	Restriction to roads Vegetation clearing control Rehabilitation	Commencement of activity Integrated into the activity	Only necessary area should be cleared to avoid extensive vegetation loss
	Geological change	Rehabilitation	Integrated into activity Decommissioning of activity	Minimizing the impact

	Topographical change	Rehabilitation	Integrated into activity Decommissioning of activity	Complying with the rehabilitation standards in remedying the effect of the activity also prevent erosion channels from forming and degrading the natural topography

	Soil pollution	Immediate Rehabilitation Regular inspections Vehicle maintenance	Integrated into the activity Decommissioning of activity	Avoiding soil pollution as far as possible in order to prevent sterilization of the ground, vegetation loss, the possible impact on the animals and ground/surface water bodies in the event of a storm and storm water run-off
	Grazing loss	Rehabilitation Restriction to cleared areas	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding and rectifying the loss of vegetation used for livestock grazing and nesting grounds
	Vegetation disturbance	Rehabilitation Restriction to cleared areas	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding, minimizing and/or rectifying the loss of vegetation. Where vegetation growth is hindered a greater probability or erosion exists
	Water table level	-	-	-
	Invader plants	Domestic waste handling Regular removal Report of environmental officer	Integrated into activity Decommissioning of activity Closure of activity	Managing and preventing the establishment of invader species endangering the indigenous species of the area
	Fauna	-	-	-
	Water quality loss (storm water)	Storm water management	Integrated into activity Decommissioning of activity	Avoiding run-off storm water contamination as well as excessive erosion during an storm event
	Noise disturbance	Silencer system on vehicles	Commencement of activity Integrated into activity	Minimizing the effect the noise created by the operations have on the residing community, animals and surrounding environment
	Air quality degradation	Speed restriction Dampening of mine roads	Integrated into activity	Minimizing the amount of dust release into the air, preserving air quality as far as possible

	Archaeological items	Avoid sites of significance	Commencement of activity Integrated into activity	Avoiding the destruction of any structures of archaeological and/or cultural significance

	Sensitive landscape	Rehabilitation Avoid significant sensitive sites	Commencement of activity Integrated into activity Decommissioning of activity Closure of activity	Avoiding and/or minimizing the effect and degradation the operations may have on any significant sensitive areas
	Visual impact	-	-	-
	Waste disposal	Management standards	Integrated into the activity Decommissioning of activity	Avoiding the degradation of the environment as well as the health of any individual, animal, plant and/or soil by scattered metals and other wastes
	Re-vegetation	Regular inspections	Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation regrowth of the disturbed area
	Area rehabilitation	Regular inspections Removal of invader species Closure standards	Integrated into activity Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation regrowth of the disturbed areas, removing invader species and ensuring the state of environment is as close as possible to the original state
Topsoil and overburden	Vegetation loss	Vegetation clearing control Dump placement Rehabilitation	Commencement of activity. Integrated into the activity	Preventing the extensive loss of vegetation, thereby keeping the footprint to a minimum
	Geological change	-	-	-

	Topographical change	Rehabilitation	Integrated into activity Decommissioning of activity	Complying with the rehabilitation standards in remedying the effect of the activity and prevent erosion channels form forming degrading the natural topography
	Soil pollution	-	-	-

	Grazing loss	Dump placement Vegetation clearing control Rehabilitation	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding, minimizing and/or remedying the loss of vegetation use for livestock grazing and nesting grounds
	Vegetation disturbance	Dump placement Vegetation clearing control Rehabilitation	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding, and minimizing the loss of vegetation. Where vegetation growth is hindered greater probability of erosion exists
	Water table level	-	-	-
	Invader plants	Regular removal Report to environmental officer	Integrated into activity Decommissioning of activity Closure of activity	Managing and preventing the establishment of invader species endangering the fragile indigenous species of the area
	Fauna	-	-	-
	Water quality loss (storm water)	Storm water management	Commencement of activity Integrated into activity	Avoiding run-off storm water contamination as well as excessive erosion during such an event
	Noise disturbance	-	-	-
	Air quality degradation	Protection against wind erosion	Integrated into activity	Minimizing the amount of dust released into the air, preserving air quality as far as possible
	Archaeological items	Avoid sites of significance	Commencement of activity Integrated into activity	Avoiding the destruction of any structures of archaeological and/or cultural significance

	Sensitive landscape	Avoid significant sensitive sites Adhere to mitigation measures	Commencement of activity Integrated into activity	Avoiding and/or minimizing the effect and degradation the operations may have on any significant sensitive area
	Visual impact	Rehabilitation	Integrated into activity Decommissioning of activity	Minimizing the effect the activity may have on the scenery of the area and/or rectifying the disturbance to promote a successful vegetation regrowth decreasing the footprint of vegetation cleared areas

	Waste disposal	Management standards	Integrated into activity Decommissioning of activity	Avoiding the degradation of the environment as well as the health of any individual, animal, plant and/or soil.
	Re-vegetation	Rehabilitation Regular inspections	Integrated into activity Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation regrowth of the disturbed area
	Area rehabilitation	Regular inspections Removal of invader species Closure standards	Integrated into activity Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation re-growth of the disturbed areas, removing invader species and ensuring the state of environment is as close as possible to the original state.
Ore dumps	Vegetation loss	Placement at plant site	Commencement of activity. Integrated into the activity	Preventing the extensive loss of vegetation thereby keeping the footprint to a minimum
	Geological change	-	-	-

	Topographical change	Rehabilitation Dump placement	Commencement of activity Integrated into activity Decommissioning of activity	Complying with the rehabilitation standards in remedying the effect of the activity and prevent erosion channels from forming degrading the natural topography
	Soil pollution	-	-	-
	Grazing loss	Dump placement Rehabilitation	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding and rectifying the loss of vegetation used for livestock grazing and nesting grounds
	Vegetation disturbance	Dump placement Rehabilitation	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding, minimizing and/or rectifying the loss of vegetation. Where vegetation growth is hindered greater probability of erosion exists
	Water table level	-	-	-

	Invader plants	Regular removal Report to environmental officer	Integrated into activity Decommissioning of activity Closure of activity	Managing and preventing the establishment of invader species endangering the fragile indigenous species of the area
	Fauna	-	-	-
	Water quality loss (storm water)	Storm water management	Commencement of activity Integrated into activity	Avoiding run-off storm water contamination as well as excessive erosion during an storm event and storm water run-off
	Noise disturbance	-	-	-
	Air quality degradation	-	-	-
	Archaeological items	Avoid sites of significance	Commencement of activity Integrated into activity	Avoiding the destruction of any structure of archaeological and/or cultural significance
	Sensitive landscape	Placement at plant site Adhere to mitigation measures	Commencement of activity Integrated into activity Decommissioning of activity Closure of activity	Avoiding and/or minimizing the effect and degradation the operations may have on any significant sensitive areas
	Visual impact	Rehabilitation	Commencement of activity Integrated into activity	Minimizing and/or minimizing the effect and degradation the operations may have on any significant sensitive areas.
	Waste disposal	Management standards	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding the degradation of the environment as well as the health of any individual, animal, plant and/or soil.
	Re-vegetation	Rehabilitation Regular inspections	Integrated into activity Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation regrowth of the disturbed areas

	Area rehabilitation	Regular inspections Removal of invader species Closure standard	Integrated into activity Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation re-growth of the disturbed areas, removing invader species and ensuring the state of environment is as close as possible to the original state.

Waste dump	Vegetation loss	Dump placement Rehabilitation	Commencement of activity. Integrated into the activity Decommissioning of activity	Preventing the extensive loss of vegetation thereby keeping the footprint to a minimum
	Geological change	-	-	-
	Topographical change	Rehabilitation	Integrated into activity Decommissioning of activity	Complying with the rehabilitation standards in remedying the effect of the activity by removing all dump material
	Soil pollution	-	-	-
	Grazing loss	Dump placement Rehabilitation	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding and rectifying the loss of vegetation used for livestock grazing and nesting grounds
	Vegetation disturbance	Dump placement Rehabilitation	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding and/or minimizing the disturbance and loss of vegetation minimizing the effect on the overall environment
	Water table level	-	-	-
	Invader plants	Regular removal Report to environmental officer	Integrated into activity Decommissioning of activity Closure of activity	Managing and preventing the establishment of invader species endangering the fragile indigenous species of the area
	Fauna	-	-	-
	Water quality loss (storm water)	Storm water management	Commencement of activity Integrated into activity	Avoiding run-off storm water contamination as well as excessive erosion during an event
	Noise disturbance	-	-	-

	Air quality degradation	-	-	-
	Archaeological items	Avoid sites of significance	Commencement of activity Integrated into activity	Avoiding the destruction of any structure of archaeological and/or cultural significance
	Sensitive landscape	Avoid significant sensitive sites Adhere to mitigation measures	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding and/or minimizing the effect and degradation the operations may have on any significant sensitive areas

	Visual impact	Rehabilitation	Integrated into activity Decommissioning of activity	Minimizing the effect the activity may have on the scenery of the area and/or rectifying the disturbance to promote a successful vegetation regrowth decreasing the footprint of vegetation cleared areas
	Waste disposal	Management standards	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding the degradation of the environment as well as the health of any individual, animal, plant and/or soil.
	Re-vegetation	Regular inspections	Integrated into activity Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation regrowth of the disturbed areas
	Area rehabilitation	Regular inspections Removal of invader species Closure standard	Integrated into activity Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation re-growth of the disturbed areas, removing invader species and ensuring the state of environment is as close as possible to the original state.
Stock piles	Vegetation loss	Dump placement	Commencement of activity. Integrated into the activity	Preventing the extensive loss of vegetation thereby keeping the footprint to a minimum
	Geological change	-	-	-

	Topographical change	Dump placement	Commencement of activity Integrated into activity	Minimizing the need to level areas for safe and effective stockpiling as well as preventing unnecessary run-off during a storm event
	Soil pollution	-	-	-
	Grazing loss	Restriction to cleared areas Dump placement Rehabilitation	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding and rectifying the loss of vegetation used for livestock grazing and nesting grounds
	Vegetation disturbance	Dump placement Restriction to cleared areas Rehabilitation	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding, minimizing and/or rectifying the loss of vegetation. Where vegetation growth is hindered greater probability of erosion exists

	Water table level	-	-	-
	Invader plants	Removal of invaders	Integrated into activity Decommissioning of activity Closure of activity	Managing and preventing the establishment of invader species endangering the fragile indigenous species of the area
	Fauna	-	-	-
	Water quality loss (storm water)	Storm water management	Commencement of activity Integrated into activity	Avoiding run-off storm water contamination as well as excessive erosion during an storm event and storm water run-off
	Noise disturbance	-	-	-
	Air quality degradation	-	-	-
	Archaeological items	Avoid sites of significance	Commencement of activity Integrated into activity	Avoiding the destruction of any structure of archaeological and/or cultural significance
	Sensitive landscape	Dump placement Adhere to mitigation measures	Commencement of activity Integrated into activity Decommissioning of activity Closure of activity	Avoiding and/or minimizing the effect and degradation the operations may have on any significant sensitive areas

	Visual impact	Rehabilitation	Commencement of activity Integrated into activity	Remedying and/or minimizing the effect and degradation the operations may have on any significant sensitive areas.
	Waste disposal	Management standards	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding the degradation of the environment as well as the health of any individual, animal, plant and/or soil.
	Re-vegetation	Regular inspections	Integrated into activity Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation regrowth of the disturbed areas

	Area rehabilitation	Regular inspections Removal of invader species Closure standard	Integrated into activity Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation re-growth of the disturbed areas, removing invader species and ensuring the state of environment is as close as possible to the original state.
Mine infrastructure				
Office site	Vegetation loss	Vegetation clearing control	Commencement of activity. Integrated into the activity	Only the necessary area should be cleared to avoid extensive vegetation loss
	Geological change	-	-	-
	Topographical change	-	-	-

	Soil pollution	Immediate rehabilitation Continuous inspections	Integrated into activity Decommissioning of activity	Avoiding soil pollution as far as possible in order to prevent sterilization of the ground, vegetation loss, the possible impact on the animals and ground/surface water bodies in the event of a storm water run-off
	Grazing loss	Rehabilitation Traffic restriction to cleared areas	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding and rectifying the loss of vegetation used for livestock grazing and nesting grounds
	Vegetation disturbance	Rehabilitation Traffic restriction to cleared areas	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding, minimizing and/or rectifying the loss of vegetation. Where vegetation growth is hindered greater probability of erosion exists
	Water table level	Water consumption restriction	Integrated into activity	Managing ground water levels to ensure everyone in the vicinity have adequate water and avoiding the depletion of ground water caused by the unnecessary and excessive use of water.

	Invader plants	Removal of invaders Continuous inspections Domestic waste handling	Integrated into activity Decommissioning of activity Closure of activity	Managing and preventing the establishment of invader species endangering the fragile indigenous species of the area
	Fauna	-	-	-
	Water quality loss (storm water)	Storm water management	Commencement of activity Integrated into activity	Avoiding run-off storm water contamination as well as excessive erosion during an storm event and storm water run-off
	Noise disturbance	-	-	-

	Air quality degradation	Dampening of exposed areas	Integrated into activity	Minimizing the amount of dust released into the air preserving air quality as far as possible
	Archaeological items	Avoid sites of significance	Commencement of activity Integrated into activity	Avoiding the destruction of any structure of archaeological and/or cultural significance
	Sensitive landscape	Adhere to mitigation measures Avoid significant sensitive sites	Commencement of activity Integrated into activity Decommissioning of activity Closure of activity	Avoiding and/or minimizing the effect and degradation the operations may have on any significant sensitive areas
	Visual impact	Rehabilitation	Commencement of activity Integrated into activity	Remedying the disturbance to promote a successful vegetation regrowth decreasing the footprint of vegetation cleared areas
	Waste disposal	Management standards	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding the degradation of the environment as well as the health of any individual, animal, plant and/or soil.
	Re-vegetation	Regular inspections	Integrated into activity Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation regrowth of the disturbed areas

	Area rehabilitation	Regular inspections Removal of invader species Closure standard	Integrated into activity Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation re-growth of the disturbed areas, removing invader species and ensuring the state of environment is as close as possible to the original state.

Processing plant	Vegetation loss	Vegetation clearing control Rehabilitation	Commencement of activity. Integrated into the activity Decommissioning of activity	Only the necessary area should be cleared to avoid extensive vegetation loss
	Geological change	-	-	-
	Topographical change	Rehabilitation Topographical placement	Commencement of activity Integrated into activity	Minimizing the need to level areas for safe machinery operations, prevention of erosion channels from forming.
	Soil pollution	Immediate rehabilitation Continuous inspections Chemical handling protocol Equipment maintenance	Integrated into activity Decommissioning of activity	Avoiding soil pollution as far as possible in order to prevent sterilization of the ground, vegetation loss, the possible impact on the animals and ground/surface water bodies in the event of a storm water run-off
	Grazing loss	Rehabilitation Restriction to cleared areas	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding and rectifying the loss of vegetation used for livestock grazing and nesting grounds
	Vegetation disturbance	Restriction to cleared areas Rehabilitation	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding, minimizing and/or rectifying the loss of vegetation. Where vegetation growth is hindered greater probability of erosion exists
	Water table level	Water use minimization	Integrated into activity	Avoiding the depletion of ground water through water reticulation in order to ensure adequate water available for water users in the vicinity
	Invader plants	Domestic waste handling Regular removal	Integrated into activity Decommissioning of activity Closure of activity	Managing and preventing the establishment of invader species endangering the fragile indigenous species of the area
	Fauna	-	-	-

	Water quality loss	Soil pollution management Storm water management Waste water management	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding spillage and ground contamination, preventing run-off storm water contaminations as well as the process waste water released into the environment degrading the overall status thereof
	Noise disturbance	-	-	-
	Air quality degradation	Dampening of exposed area	Integrated into activity	Minimizing the amount of dust released into the air preserving air quality as far as possible
	Archaeological items	Avoid sites of significance	Commencement of activity Integrated into activity	Avoiding the destruction of any structure of archaeological and/or cultural significance
	Sensitive landscape	Avoid significant sensitive sites Adhere to mitigation measures	Commencement of activity Integrated into activity Decommissioning of activity Closure of activity	Avoiding and/or minimizing the effect and degradation the operations may have on any significant sensitive areas
	Visual impact	Rehabilitation	Integrated into activity Decommissioning of activity	Remedying the disturbance to promote a successful vegetation regrowth decreasing the footprint of vegetation cleared areas
	Waste disposal	Management standards	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding the degradation of the environment as well as the health of any individual, animal, plant and/or soil by scattered ,metals and other wastes
	Re-vegetation	Regular inspections	Integrated into activity Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation regrowth of the disturbed areas

	Area rehabilitation	Regular inspections Removal of invader species Closure standard	Integrated into activity Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation re-growth of the disturbed areas, removing invader species and ensuring the state of environment is as close as possible to the original state.
Ablution	Vegetation loss	Construction near offices Vegetation clearing control Rehabilitation	Commencement of activity Integrated into activity	Preventing the extensive loss of vegetation, thereby keeping the footprint to a minimum
	Geological change	-	-	-
	Topographic change	-	-	-
	Soil/Litter pollution	Facility maintenance Immediate clean-up	Integrated into activity Decommissioning of activity	Avoiding, minimizing and remedying of spillage preventing any health effect that spillage may have on the environment
	Grazing loss	Rehabilitation	Integrated into activity Decommissioning of activity Closure of activity	Rectifying the loss of vegetation used for livestock grazing and nesting grounds
	Vegetation disturbance	Rehabilitation	Commencement of activity Integrated into activity	Rectifying the disturbance and loss of vegetation, minimizing the effect on the overall environment
	Water table level	Water use management	Integrated into activity	Avoiding the unnecessary and excessive water use to ensure adequate ground water resources for water users in the vicinity
	Invader plants	Regular removal	Integrated into activity Decommissioning of activity Closure of activity	Managing and preventing the establishment of invader species endangering the fragile indigenous species of the area
	Fauna	-	-	-

	Water quality loss (waste water)	Waste water management Regular septic tank draining	Commencement of activity Integrated into activity Decommissioning of activity	Waste management standards as all sewerage must be treated at a registered facility as well as avoiding the risk it poses in regard to environmental health
	Noise disturbance	-	-	-
	Air quality degradation	-	-	-
	Archaeological items	Avoid sites of significance	Commencement of activity	Avoiding the destruction of any structures of archaeological and/or cultural significance
	Sensitive landscape	Rehabilitation Facility maintenance	Commencement of activity Integrated into activity	Avoid and rectify the pollution, degradation and/or destruction of any significant sensitive landscapes
	Visual impact	Rehabilitation	Integrated into activity Decommissioning of activity	Remedying the disturbance to promote a successful vegetation regrowth decreasing the footprint of vegetation cleared areas
	Waste disposal	Management standards	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding the degradation of the environment as well as the health of any individual, animal, plant and/or soil by human excretions (sewerage) and related wastes
	Re-vegetation	Regular inspections	Decommissioning of activity. Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation regrowth of the disturbed areas

	Area rehabilitation	Regular inspections Closure standards	Integrated into activity Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation re-growth of the disturbed areas, removing invader species and ensuring the state of environment is as close as possible to the original state.

Vehicle parking				
Parking lot	Vegetation loss	Vegetation clearing control	Commencement of activity Integrated into activity	Minimize the unnecessary clearance of vegetation and minimizing overall mining footprint
	Geological change	-	-	-
	Topographic change	-	-	-
	Soil pollution	Regular inspections Immediate rehabilitation Drip-tray installation Vehicle maintenance	Integrated into activity Decommissioning of activity.	Avoiding soil pollution as far as possible in order to prevent sterilization of the ground, the possible impact on the animals and ground/surface water bodies in the event of storm water run-off
	Grazing loss	Restriction to cleared areas Rehabilitation	Integrated into activity Decommissioning of activity	Avoiding and rectifying the loss of vegetation used for livestock grazing and nesting grounds
	Vegetation disturbance	Restriction to cleared areas Rehabilitation	Integrated into activity Decommissioning of activity	Avoiding and/or minimizing the disturbance and loss of vegetation minimizing the effect on the overall environment
	Water table level	-	-	-

	Invader plants	Removal of invaders Continuous inspections Domestic waste management	Integrated into activity Decommissioning of activity Closure of activity	Managing and preventing the establishment of invader species threatening the fragile indigenous species of the area
	Fauna	Waste management	Integrated into activity Decommissioning of activity	Avoiding the degradation of the environment as well as the health of any individual, animal, plant and/or soil by scattered wastes
	Water quality loss (storm water)	Storm water management Soil pollution management	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding run-off storm water contamination as well as excessive erosion during such an event
	Noise disturbance	Silencer systems on vehicles	Integrated into activity	Minimizing noise and the effect of high noise levels on employees, animals and surrounding environment

	Air quality degradation	Dampening of exposed areas Speed restriction	Integrated into activity	Watering of the exposed area will keep the dust stable and prevent any windblown dust
	Archaeological items	Avoid sites of significance	Commencement of activity	Avoiding the destruction of any structures of archaeological and/or cultural significance.
	Sensitive landscape	Avoid significant sensitive sites Adhere to mitigation measures Rehabilitation	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding and/or minimizing the effect and degradation the activity may have on any significant sensitive areas
	Visual impact	Rehabilitation	Integrated into activity Decommissioning of activity	Remedying the disturbance to promote a successful vegetation re-growth decreasing the footprint of vegetation cleared areas
	Waste disposal	Management standards	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding the degradation of the environment as well as the health of any individual, animal, plant and/or soil by scattered metals and other wastes
	Re-vegetation	Regular inspections	Integrated into activity Decommissioning of activity. Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring the vegetation re-growth of the disturbed area

	Area rehabilitation	Regular inspections Invader plant removal Closure standards	Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation re-growth of the disturbed areas, removing invader species and ensuring the state of environment is as close as possible to the original state

Wash bay	Vegetation loss	Vegetation clearing control	Commencement of activity. Integrated into the activity	Only the necessary area should be cleared to avoid extensive vegetation loss
	Geological change	-	-	-
	Topographical change	-	-	-
	Soil pollution	Immediate rehabilitation Regular inspections Adhere to mitigation measures	Integrated into activity Decommissioning of activity	Avoiding soil pollution as far as possible in order to prevent ground sterilization of the ground, the possible impact on the animals and the ground/surface water bodies in the event of storm water run-off
	Grazing loss	Rehabilitation Restriction to cleared areas	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding and rectifying the loss of vegetation used for livestock grazing and nesting grounds
	Vegetation disturbance	Restriction to cleared areas Rehabilitation	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding, minimizing and/or rectifying the loss of vegetation. Where vegetation growth is hindered greater probability of erosion exists

	Water table level	Water use management	Integrated into activity	Minimizing and managing the use of water to ensure minimal necessary ground water consumption to protect the water table
	Invader plants	Regular removal Domestic waste handling	Integrated into activity Decommissioning of activity Closure of activity	Managing and preventing the establishment of invader species endangering the fragile indigenous species of the area
	Fauna	Waste management	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding and/or minimizing scattered waste materials will help to prevent animal suffering and even loss of life
	Water quality loss (Waste water)	Waste water management Draining/cleaning of waste water Biodegradable detergents	Commencement of activity Integrated into activity Decommissioning of activity	Waste managing standards as all chemical containing waste must be treated at an appropriate facility as well as avoiding the risk it poses in regard to environmental degradation
	Noise disturbance	-	-	-

	Air quality degradation	Dampening of exposed area	Integrated into activity	Watering of the exposed area will keep the dust settled and prevent any windblown dust
	Archaeological items	Avoid sites of significance	Commencement of activity Integrated into activity	Avoiding the destruction of any structure of archaeological and/or cultural significance
	Sensitive landscape	Avoid significant sensitive sites Adhere to mitigation measures Waste water management Rehabilitation	Commencement of activity Integrated into activity Decommissioning of activity Closure of activity	Avoiding and/or minimizing the effect and degradation the operations may have on any significant sensitive areas
	Visual impact	Rehabilitation Waste/metal management	Commencement of activity Integrated into activity	Avoiding, minimizing and/or remedying the disturbance to promote a successful vegetation regrowth decreasing the footprint of vegetation cleared areas

	Waste disposal	Management standards	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding the degradation of the environment as well as the health of any individual, animal, plant and/or soil by scatted metals and other wastes
	Re-vegetation	Regular inspections	Integrated into activity Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation regrowth of the disturbed areas
	Area rehabilitation	Regular inspections Removal of invader species Closure standard	Integrated into activity Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation re-growth of the disturbed areas, removing invader species and ensuring the state of environment is as close as possible to the original state.

Parts store room	Vegetation loss	Vegetation clearing control	Commencement of activity. Integrated into the activity	Only the necessary area should be cleared to avoid extensive vegetation loss
	Geological change	-	-	-
	Topographical change	-	-	-
	Soil pollution	Immediate rehabilitation Regular inspections Adhere to mitigation measures	Integrated into activity Decommissioning of activity	Avoiding soil pollution as far as possible in order to prevent ground sterilization of the ground, the possible impact on the animals and the ground/surface water bodies in the event of storm water run-off

	Grazing loss	Rehabilitation	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding and rectifying the loss of vegetation used for livestock grazing and nesting grounds
	Vegetation disturbance	Rehabilitation	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding, minimizing and/or rectifying the loss of vegetation. Where vegetation growth is hindered greater probability of erosion exists
	Water table level	-	-	-
	Invader plants	Regular removal	Integrated into activity Decommissioning of activity Closure of activity	Managing and preventing the establishment of invader species endangering the fragile indigenous species of the area
	Fauna	-	-	-
	Water quality loss (storm water)	Storm water management Soil pollution management	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding spillage and ground contamination preventing run-off storm water contamination
	Noise disturbance	-	-	-
	Air quality degradation	Dampening of exposed area	Integrated into activity	Watering of the exposed area will keep the dust settled and prevent any windblown dust
	Archaeological items	Avoid sites of significance	Commencement of activity Integrated into activity	Avoiding the destruction of any structure of archaeological and/or cultural significance

	Sensitive landscape	Avoid significant sensitive sites Adhere to mitigation measures	Commencement of activity Integrated into activity Decommissioning of activity Closure of activity	Avoiding and/or minimizing the effect and degradation the operations may have on any significant sensitive areas
	Visual impact	Rehabilitation Waste/metal management	Commencement of activity Integrated into activity	Avoiding, minimizing and/or remedying the disturbance to promote a successful vegetation regrowth decreasing the footprint of vegetation cleared areas
	Waste disposal	Management standards	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding the degradation of the environment as well as the health of any individual, animal, plant and/or soil by scatted metals and other wastes
	Re-vegetation	Regular inspections	Integrated into activity Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation regrowth of the disturbed areas
	Area rehabilitation	Regular inspections Closure standard	Integrated into activity Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation re-growth of the disturbed areas, removing invader species and ensuring the state of environment is as close as possible to the original state.
Scrap yard	Vegetation loss	Vegetation clearing control	Commencement of activity. Integrated into the activity	Only the necessary area should be cleared to avoid extensive vegetation loss
	Geological change	-	-	-
	Topographical change	-	-	-

	Soil pollution	Immediate rehabilitation Regular inspections Adhere to mitigation measures	Integrated into activity Decommissioning of activity	Avoiding soil pollution as far as possible in order to prevent ground sterilization of the ground, the possible impact on the animals and the ground/surface water bodies in the event of storm water run-off

	Grazing loss	Rehabilitation Restriction to cleared areas	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding and rectifying the loss of vegetation used for livestock grazing and nesting grounds
	Vegetation disturbance	Restriction to cleared areas Rehabilitation	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding, minimizing and/or rectifying the loss of vegetation. Where vegetation growth is hindered greater probability of erosion exists
	Water table level	-	-	-
	Invader plants	Regular removal Continuous inspections	Integrated into activity Decommissioning of activity Closure of activity	Managing and preventing the establishment of invader species endangering the fragile indigenous species of the area
	Fauna	Waste management	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding and/or minimizing scattered waste materials will help to prevent animal suffering and even loss of life
	Water quality loss (storm water)	Storm water management Soil pollution management Waste management	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding and managing soil pollution as far as possible in order to prevent sterilization of the ground, extensive vegetation loss, the possible impact on the animals and ground/surface water bodies in the event of a storm water run-off
	Noise disturbance	-	-	-
	Air quality degradation	-	-	-
	Archaeological items	Avoid sites of significance	Commencement of activity Integrated into activity	Avoiding the destruction of any structure of archaeological and/or cultural significance

	Sensitive landscape	Avoid significant sensitive sites Adhere to mitigation measures	Commencement of activity Integrated into activity Decommissioning of activity Closure of activity	Avoiding and/or minimizing the effect and degradation the operations may have on any significant sensitive areas

	Visual impact	Rehabilitation Waste/metal management	Commencement of activity Integrated into activity	Avoiding, minimizing and/or remedying the disturbance to promote a successful vegetation regrowth decreasing the footprint of vegetation cleared areas
	Waste disposal	Management standards	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding the degradation of the environment as well as the health of any individual, animal, plant and/or soil by scatted metals and other wastes
	Re-vegetation	Regular inspections	Integrated into activity Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation regrowth of the disturbed areas
	Area rehabilitation	Regular inspections Removal of invader species Closure standard	Integrated into activity Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation re-growth of the disturbed areas, removing invader species and ensuring the state of environment is as close as possible to the original state.
Temporary workshop facility	Vegetation loss	Vegetation clearing control Rehabilitation	Commencement of activity. Integrated into the activity	Only the necessary area should be cleared to avoid extensive vegetation loss
	Geological change	-	-	-
	Topographical change	-	-	-

	Soil pollution	Immediate rehabilitation Regular inspections Adhere to mitigation measures Waste management	Integrated into activity Decommissioning of activity	Avoiding soil pollution as far as possible in order to prevent ground sterilization of the ground, the possible impact on the animals and the ground/surface water bodies in the event of storm water run-off
	Grazing loss	Rehabilitation	Commencement of activity Integrated into activity Decommissioning of activity	Rectifying the loss of vegetation used for livestock grazing and nesting grounds

	Vegetation disturbance	Rehabilitation	Commencement of activity Integrated into activity Decommissioning of activity	Minimizing and/or rectifying the loss of vegetation. Where vegetation growth is hindered greater probability of erosion exists
	Water table level	-	-	-
	Invader plants	Regular removal Domestic waste handling	Integrated into activity Decommissioning of activity Closure of activity	Managing and preventing the establishment of invader species endangering the fragile indigenous species of the area
	Fauna	Waste management	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding and/or minimizing scattered waste materials will help to prevent animal suffering and even loss of life
	Water quality loss (Storm water)	Storm water management Soil pollution management	Commencement of activity Integrated into activity Decommissioning of activity	Waste managing standards as all chemical containing waste must be treated at an appropriate facility as well as avoiding the risk it poses in regard to environmental degradation
	Noise disturbance	-	-	-
	Air quality degradation	-	-	-
	Archaeological items	Avoid sites of significance	Commencement of activity Integrated into activity	Avoiding the destruction of any structure of archaeological and/or cultural significance

	Sensitive landscape	Rehabilitation Adhere to mitigation measures	Commencement of activity Integrated into activity Decommissioning of activity Closure of activity	Avoiding and/or minimizing the effect and degradation the operations may have on any significant sensitive areas
	Visual impact	Rehabilitation Waste management	Commencement of activity Integrated into activity	Remedying the disturbance to promote a successful vegetation regrowth decreasing the footprint of vegetation cleared areas

	Waste disposal	Management standards	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding the degradation of the environment as well as the health of any individual, animal, plant and/or soil by scatted metals and other wastes
	Re-vegetation	Regular inspections	Integrated into activity Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation regrowth of the disturbed areas
	Area rehabilitation	Regular inspections Removal of invader species Closure standard	Integrated into activity Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation re-growth of the disturbed areas, removing invader species and ensuring the state of environment is as close as possible to the original state.
Chemical and hydrocarbon fluid storage	Vegetation loss	Vegetation clearing control Construction near offices Rehabilitation	Commencement of activity Integrated into activity	Preventing the extensive loss of vegetation thereby keeping the footprint to a minimum
	Geological change	-	-	-

	Topographic change	-	-	-
	Soil pollution	Chemical handling protocol Chemical waste management Immediate rehabilitation	Integrated into activity Decommissioning of activity	Avoiding and/or remedying soil pollution as far as possible in order to prevent sterilization of the ground, vegetation loss and the possible impact on the animals and ground/surface waterbodies in the event of storm water run-off
	Grazing loss	Rehabilitation	Integrated into activity Decommissioning of activity	Rectifying the loss of vegetation used for livestock grazing and nesting grounds
	Vegetation disturbance	Rehabilitation	Integrated into activity Decommissioning of activity	Avoiding and/or minimizing the disturbance and loss of vegetation minimizing the effect on the overall environment
	Water table level	-	-	-

	Invader plant	Regular removal	Integrated into activity Decommissioning of activity Closure of activity	Managing and preventing the establishment of invader species, which threatens the indigenous species of the area
	Fauna	Chemical handling protocol Chemical waste management	Integrated into activity Decommissioning of activity	Avoid soil pollution and the possible health effects on animals that can cause distress, suffering and/or loss of life
	Water quality loss (storm water)	Storm water management Soil pollution management	Commencement of activity Integrated into activity	Avoiding spillage and ground contamination, preventing run-off storm water contamination as well as excessive erosion during such an event
	Noise disturbance	-	-	-
	Air quality degradation	-	-	-
	Archaeological items	Avoid sites of significance	Commencement of activity Integrated into activity	Avoiding the destruction of any structures of archeological and/or cultural significance

	Sensitive landscape	Rehabilitation	Integrated into activity Decommissioning of activity Closure of activity	Avoiding and minimizing the effect and degradation the operations may have on any significant sensitive areas
	Visual impact	-	-	-
	Waste disposal	Management standards	Integrated into activity Decommissioning of activity	Avoiding the degradation of the environment as well as the health of any individual, animal, plant and/or soil by chemical or chemical containing waste
	Re-vegetation	Regular inspections	Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation re-growth of the disturbed areas
	Area rehabilitation	Regular inspections Removal of invader species Closure standards	Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation re-growth of the disturbed areas and ensuring the state of environment is as close as possible to the original state

Diesel storage	Vegetation loss	Vegetation clearing control Construct near offices Rehabilitation	Commencement of activity Integrated into activity	Preventing the extensive loss of vegetation thereby keeping the footprint to a minimum
	Geological loss	-	-	-
	Topographic change	-	-	-
	Soil pollution	Regular maintenance Regular inspections Immediate rehabilitation Operation procedures	Integrated into activity Decommissioning of activity	Avoiding, minimizing and remedying of spillage preventing sterilization of the ground, vegetation loss and the possible impact on the animals and ground/surface waterbodies in the event of a storm water run-off

	Grazing loss	Restriction to cleared areas Rehabilitation	Integrated into activity Decommissioning of activity Closure of activity	Avoiding and rectifying the trampling of vegetation used for livestock grazing and ground compaction
	Vegetation disturbance	Restriction to cleared areas Rehabilitation	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding the loss of vegetation and ground compaction. Where vegetation growth is hindered a greater probability of erosion exists.
	Water table level	-	-	-
	Invader plants	Regular removal	Integrated into activity Decommissioning of activity Closure of activity	Managing and preventing the establishment of invader species endangering the fragile indigenous species of the area
	Fauna	Soil pollution management Immediate rehabilitation	Integrated into activity Decommissioning of activity	Avoid sol pollution and the possible health effects on animals that can cause distress, suffering and/or loss of life
	Water quality loss (storm water)	Soil pollution management Storm water management	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding spillage and ground contamination preventing run-off storm water contamination as well as excessive erosion during such an event
	Noise disturbance	-	-	-
	Air quality degradation	-	-	-

	Archaeological items	Avoid sites of significance	Commencement of activity Integrated into activity	Avoiding the destruction of any structures of archaeological and/or cultural significance
	Sensitive landscape	Avoid significant sensitive sites Adhere to mitigation measures	Commencement of activity Integrated in activity Decommissioning of activity	Avoiding and/or minimizing the effect and degradation the activity may have on any sensitive area
	Visual impact	Rehabilitation	Integrated into activity Decommissioning of activity	Remedying the disturbance to promote a successful vegetation regrowth decreasing the footprint of vegetation cleared areas

	Waste disposal	Management standards	Integrated into activity Decommissioning of activity	Avoiding the degradation of the environment as well as the health of any individual, animal, plant and/or soil by diesel and/or diesel containing waste
	Re-vegetation	Regular inspections	Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation re-growth of the disturbed areas
	Area rehabilitation	Regular inspections Closure standards	Integrated into activity Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation re-growth of the disturbed areas and ensuring the state of environment is as close as possible to the pre-prospected area.
Domestic waste	Vegetation loss	Vegetation clearing control	Commencement of activity Integrated into activity	Minimize the unnecessary clearance of vegetation and minimizing overall mining footprint
	Geological change	-	-	-
	Topographic change	-	-	-
	Soil / litter pollution	Immediate clean-up Continuous inspections	Integrated into activity Decommissioning of activity	Avoiding, minimizing and remedying of litter pollution preventing disturbance to plant and plant growth as well as possible suffering of and even death in animals

	Grazing loss	Rehabilitation	Commencement of activity Integrated into activity Decommissioning of activity	Rectifying the loss of vegetation use for livestock grazing and nesting grounds
	Vegetation disturbance	Rehabilitation	Integrated into activity Decommissioning of activity	Avoiding and/or minimizing the disturbance and loss of vegetation minimizing the effect on the overall environment

	Water table level	-	-	-
	Invader plants	Regular removal	Integrated into activity Decommissioning of activity Closure of activity	Managing and preventing the establishment of invader species threatening the fragile indigenous species of the area
	Fauna	Adhere to mitigation measures Immediate clean-up Fencing of site	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding and/or minimizing of littering will help to prevent animal suffering and even loss of life
	Water quality loss (storm water)	Storm water control	Commencement of activity Integrated into activity	Avoiding the litter pollution of storm water run-off thereby protection surface water bodies
	Noise disturbance	-	-	-
	Air quality degradation	-	-	-
	Archaeological items	Avoid sites of significance	Commencement of activity Integrated into activity	Avoiding the destruction of any structures of archaeological and/or cultural significance
	Sensitive landscape	Avoid sites of significance Adhere to mitigation measures	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding and/or minimizing the effect litter and litter pollution may have on sensitive landscapes
	Visual impact	Waste management Litter pollution management Rehabilitation	Commencement of activity Integrated into activity	Avoiding and managing the effect of scattered waste materials have on the scenery of the area and surrounding environment

	Waste disposal	Management standards	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding the degradation of the environment as well as the health of any individual, animal, plant and/or soil by littered plastics and related waste materials

	Re-vegetation	Regular inspections	Decommissioning of activity Closure of activity	Complying with the mitigation measures, rehabilitation standards and closure objectives by keeping the area litter free which may disrupt the re-growth and halter the growth of vegetation
	Area rehabilitation	Regular inspections Removal of invader species Closure standards	Integrated into activity Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by keeping the area litter free and in the same condition as before operations commenced.
Access and hauling roads	Vegetation loss	Make use of existing roads Minimum roads possible Rehabilitation	Commencement of activity Integrated into activity	Avoiding extensive and unnecessary vegetation loss
	Geological change	-	-	-
	Topographic change	Rehabilitation	Integrated into activity Decommissioning of activity	Complying with the rehabilitation standards in remedying the effect of the activity can prevent erosion channels forming degrading the natural topography
	Soil pollution	Vehicle maintenance Regular inspections Immediate rehabilitation	Integrated into activity Decommissioning of activity	Prevents the sterilization of soil by hydrocarbon fluids.
	Grazing loss	Restriction to roads Rehabilitation	Commencement of activity Integrated into activity Decommissioning of activity	Prevents the trampling of vegetation and compaction of ground

	Vegetation disturbance	Restriction to roads Rehabilitation	Integrated into activity Decommissioning of activity	Avoiding, minimizing and/or rectifying the loss of vegetation and ground compaction. Where vegetation growth is hindered a greater probability of erosion exists
	Water table level	-	-	-
	Invader plants	Domestic waste handling Regular inspections Removal of invader species	Integrated into activity Decommissioning of activity Closure of activity	Managing and preventing the establishment of invader species endangering the fragile indigenous species of the area
	Fauna	Silencer systems on vehicles Minimum traffic possible Speed restriction	Integrated into activity	Avoid unnecessary stress in animals that can cause suffering and/or loss of life
	Water quality loss (storm water)	Soil pollution management Storm water control	Commencement of activity Integrated into activity	Avoiding run-off storm water contamination as well as excessive erosion during such an events
	Noise disturbance	Silencer systems on vehicles	Integrated into activity	Minimizing the noise caused by the vehicles
	Air quality loss	Dampening of mine roads Speed restriction	Integrated into activity	Reduced speed and stabilizing of dust by dampening will minimize dust upliftment influencing the air quality
	Archaeological items	Avoid sites of significance Restriction to roads	Commencement of activity Integrated into activity	Avoiding the destruction of any structures of archaeological and/or cultural significance
	Sensitive landscape	Minimum roads possible Soil pollution management Rehabilitation	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding and/or minimizing the effect and degradation the operations may have on any sensitive areas
	Visual impact	Dust control measures Rehabilitation	Integrated into activity Decommissioning of activity	Remedying the disturbance to promote a successful vegetation re-growth decreasing the footprint of vegetation cleared areas

	Waste disposal	Management standards	Commencement of activity Integrated into activity Decommissioning of activity	Avoiding the degradation of the environment as well as the health of any individual, animal, plant and/or soil by free laying waste materials

	Re-vegetation	Regular inspections	Decommissioning of activity Closure of activity	Complying with rehabilitation standards and closure objectives by monitoring vegetation regrowth of the disturbed areas
	Area rehabilitation	Regular inspections Remove invader species Closure standards	Integrated into activity Decommissioning of activity Closure of activity	Complying with the rehabilitation standards and closure objectives by monitoring vegetation re-growth of the disturbed areas, removing invader species and ensuring the state of environment is as close as possible to the pre-prospected area.

1.7 Financial Provision

1.7.1 Determination of the amount of Financial Provision

1.7.1.1 Describe the closure objectives and the extent to which they have been aligned to the baseline environment described under the Regulation

The main closure objective is to create a post-mining environment through extensive rehabilitation to such as extent that it can be used for livestock grazing.

The closure objective could not be aligned with the baseline environment as the mining operations, especially the excavation operations, will disturb the topography of the environment extensively and rehabilitation will be done according specified standards to minimize the disturbance as much as possible

When rehabilitation proves successful the vegetation re-growth must be of such quality that this area can be used as a grazing field for farm livestock.

1.7.1.2 Confirm specifically that the environmental objectives in relation to closure have been consulted with landowner and interested and affected parties

The environmental objectives in relation to the closure still needs to be consulted with the landowner and will be done during the final stages of consultation and Environmental Management Programme consultation. The land after mining will most probably be the continuation of natural grazing land for livestock and farming activities.

1.7.1.3 Provide a rehabilitation plan that describes and shows the scale and aerial extent of the main mining activities, including the anticipated mining area at the time of closure

The end-land use after final rehabilitation would probably the continuation of farming activities, but is dependable on the decision of the land owner.

Rehabilitation is planned to occur in the following manner:

- All areas mined below the surrounding surface of the land will be backfilled as part of the mining operation, then covered with the initial topsoil removed as rehabilitation material to encourage plant growth as final part of rehabilitation

- Once the specific pit on the flats has been mined out the mining roads will be lifted if it was made with fines, else it will be ripped to encourage vegetation growth.

- The rehabilitated area will be continuously inspected against invader plant species and to monitor the indigenous vegetation regrowth

During the decommissioning of the project the following will be done to ensure a successful closure

- All mining and mining related infrastructure will be removed from the area and the compacted ground ripped and rehabilitated.

- Mine roads will also be ripped and rehabilitated.

- All rehabilitated areas will be monitored and regularly inspected against invader species as well as monitoring the indigenous vegetation regrowth rate.

1.7.1.4 Explain why it can be confirmed that the rehabilitation plan is compatible with the closure objectives

Throughout the whole document during the environmental assessment and environmental management all possible management, remediation and mitigation measures were planned towards the rehabilitation of the environment to result in an outcome compatible with the closure objectives.

The area will be fully rehabilitated according the procedures stipulated throughout this document and to the satisfaction of the Department of Mineral Resources and the landowner. This can be accomplished by the correctness of the rehabilitation and proper after-care activities.

1.7.1.5 Calculate and state the quantum of the financial provision required to manage and rehabilitate the environment in accordance with the applicable guideline

No.	Description	Unit	A Quantity	B Master Rate	C	D	E=A*B*C*D
1	Dismantling of processing plant and related structures (including overland conveyors and powerlines)	m3		12.21	1	1	0
2 (A)	Demolition of steel buildings and structures	m2		170.13	1	1	0
2 (B)	Demolition of reinforced concrete buildings and structures	m2		250.72	1	1	0
3	Rehabilitation of access roads	m2		30.44	1	1	0
4 (A)	Demolition and rehabilitation of electrified railway lines	m2		295.49	1	1	0
4 (B)	Demolition and rehabilitation of non-electrified railway lines	m2		161.18	1	1	0
5	Demolition of housing and/or administration facilities	m2		340.26	1	1	0
6	**Opencast rehabilitation including final voids and ramps**	**Ha**	**0.08**	**173174.97**	**2**	**1**	**27707.9952**
7	Sealing of shafts adits and inclines	m3		91.33	1	1	0
8 (A)	Rehabilitation of overburden and soils	Ha	0.04	118912.29	1	1	4756.4916
8 (B)	Rehabilitation of processing waste deposits and evaporation ponds (non-polluting potential)	Ha		148103.1	1	1	0
8 (C)	Rehabilitation of processing waste deposits and evaporation ponds (polluting potential)	Ha		430161.62	1	1	0
9	Rehabilitation of subsided areas	Ha		99571.13	1	1	0
10	General surface rehabilitation	Ha		94198.59	1	1	0
11	River diversions	Ha		94198.59	1	1	0
12	Fencing	M		107.45	1	1	0
13	Water management	Ha		35816.95	1	1	0
14	2 to 3 years of maintenance and aftercare	Ha		12535.93	1	1	0
15 (A)	Specialist study	Sum				1	0
15 (B)	Specialist study	Sum				1	0
	Preliminary and General		3895.738416		weighting factor 2		3895.738416
2	Contingencies		3246.44868				3246.44868
					Subtotal		39606.67
					VAT (15%)		5941.00
					Grand Total		45548.00

As seen from the above table the amount of **R 45 548** was calculated using the Department of Mineral Resources' approved Financial Provision Quantum Calculation table.

1.7.1.6 Confirm that the financial provision will be provided as determined.

The applicant will provide the financial provision in the form of a bank guarantee of **R 45 458** on the acceptance of this the reduced amount and approval of this document from the Department of Mineral Resources.

1.8 Mechanisms for monitoring compliance with and performance assessment against the environmental management programme and reporting thereon, including

1.8.1 Monitoring of Impact Management Actions 1.8.2 Monitoring and reporting frequency 1.8.3 Responsible persons 1.8.4 Time period for implementing impact management actions 1.8.5 Mechanism for monitoring compliance

SOURCE ACTIVITY	IMPACTS REQUIRING MONITORING PROGRAMMES	FUNCTIONAL REQUIREMENTS FOR MONITORING	ROLES AND RESPONSIBILITIES (FOR THE EXECUTION OF THE MONITORING PROGRAMMES)	MONITORING AND REPORTING FREQUENCY and TIME PEROIDS FOR IMPLEMENTING IMPACT MANAGEMENT ACTIONS.
Mining				
Mine excavations	Vegetation loss	Extent of vegetation loss	Environmental Manager	Yearly
		Vegetation re-establishment rate	Environmental Manager	Yearly
		Presence of invader species	Environmental Manager	Yearly
	Soil pollution	Visible spills on ground	Environmental Manager	Continuous
	Noise disturbance	Monitoring of noise levels	Noise monitoring specialist	6 monthly
	Air quality loss	Monitoring of dust fall	Air monitoring specialist	6 monthly
	Waste management	Monitoring waste management	Environmental Manager	Continuous
Topsoil and overburden	Vegetation loss	Extent of vegetation loss	Environmental Manager	Yearly
		Vegetation re-establishment rate	Environmental manager	Yearly
		Presence of invader species	Environmental Manager	Yearly
	Soil pollution	-	-	-
	Noise disturbance	-	-	-
	Air quality loss	Monitoring of dust fall	Air monitoring specialist	6 monthly
	Waste management	Monitoring waste management	Environmental Manager	Continuous
Ore dumps	Vegetation loss	Extent of vegetation loss	Environmental Manager	Yearly
		Vegetation re-establishment rate	Environmental Manager	Yearly
		Presence of invader species	Environmental Manager	Yearly
	Soil pollution	-	-	-

	Noise disturbance	-	-	-
	Air quality loss	-	-	-
	Waste management	Monitoring waste management	Environmental specialist	Continuous
Waste dumps	Vegetation loss	Extent of vegetation loss	Environmental Manager	Yearly
		Vegetation re-establishment rate	Environmental Manager	Yearly
		Presence of invader species	Environmental Manager	Yearly
	Soil pollution	-	-	-
	Noise disturbance	-	-	-
	Air quality loss	-	-	-
	Waste management	Monitoring waste management	Environmental Manager	Continuous
Stockpiles	Vegetation loss	Extent of vegetation loss	Environmental Manager	Yearly
		Vegetation re-establishment rate	Environmental Manager	Yearly
		Presence of invader species	Environmental Manager	Yearly
	Soil pollution	-	-	-
	Noise disturbance	-	-	-
	Air quality loss	-	-	-
	Waste management	Monitoring waste management	Environmental Manager	Continuous
Mine infrastructure				
Office site	Vegetation loss	Extent of vegetation loss	Environmental Manager	Yearly
		Vegetation re-establishment rate	Environmental Manager	Yearly
		Presence of invader species	Environmental Manager	Yearly
	Soil pollution	Visible spills on ground	Environmental Manager	Continuous
	Noise disturbance	-	-	-
	Air quality loss	Monitoring of dust fall	Air monitoring specialist	6 monthly
	Waste management	Monitoring waste management	Environmental Manager	Continuous

Processing plant	Vegetation loss	Extent of vegetation loss	Environmental Manager	Yearly
		Vegetation re-establishment rate	Environmental Manager	Yearly
		Presence of invader species	Environmental Manager	Yearly

	Soil pollution	Visible spills on ground	Environmental Manager	Continuous
	Noise disturbance	-	-	-
	Air quality loss	Monitoring of dust fall	Air monitoring specialist	6 monthly
	Waste management	Monitoring waste management	Environmental Manager	Continuous
Ablution	Vegetation loss	Extent of vegetation loss	Environmental Manager	Yearly
		Vegetation re-establishment rate	Environmental Manager	Yearly
		Presence of invader species	Environmental Manager	Yearly
	Soil pollution	Visible pollution	Environmental Manager	Continuous
	Noise disturbance	-	-	-
	Air quality loss	-	-	-
	Waste management	Monitoring waste management	Environmental Manager	Continuous
Vehicle parking				
Parking lot	Vegetation loss	Extent of vegetation loss	Environmental Manager	6 monthly
		Vegetation re-establishment rate	Environmental Manager	Yearly
		Presence of invader species	Environmental Manager	Yearly
	Soil pollution	Visible spills on ground	Environmental Manager	Continuous
	Noise disturbance	Monitoring of noise levels	Noise monitoring specialist	Yearly
	Air quality loss	Monitoring of dust fall	Air monitoring specialist	Yearly
	Waste management	Monitoring waste management	Environmental Manager	Continuous
Wash bay	Vegetation loss	Extent of vegetation loss	Environmental Manager	Yearly
		Vegetation re-establishment rate	Environmental Manager	Yearly
		Presence of invader species	Environmental Manager	Yearly
	Soil pollution	Visible spills on ground	Environmental Manager	Continuous
	Noise disturbance	-	-	-
	Air quality loss	Monitoring of dust fall	Air monitoring specialist	6 monthly
	Waste management	Monitoring waste management	Environmental Manager	Continuous

Parts store room	Vegetation loss	Extent of vegetation loss	Environmental Manager	Yearly
		Vegetation re-establishment rate	Environmental Manager	Yearly

		Presence of invader species	Environmental Manager	Yearly
	Soil pollution	Visible spills on ground	Environmental Manager	Continuous
	Noise disturbance	-	-	-
	Air quality loss	Monitoring of dust fall	Air monitoring specialist	6 monthly
	Waste management	Monitoring waste management	Environmental Manager	Continuous
Scrap yard	Vegetation loss	Extent of vegetation loss	Environmental Manager	Yearly
		Vegetation re-establishment rate	Environmental Manager	Yearly
		Presence of invader species	Environmental Manager	Yearly
	Soil pollution	Visible spills on ground	Environmental Manager	Continuous
	Noise disturbance	-	-	-
	Air quality loss	-	-	-
	Waste management	Monitoring waste management	Environmental Manager	Continuous
Temp workshop facility	Vegetation loss	Extent of vegetation loss	Environmental Manager	Yearly
		Vegetation re-establishment rate	Environmental Manager	Yearly
		Presence of invader species	Environmental Manager	Yearly
	Soil pollution	Visible spills on ground	Environmental Manager	Continuous
	Noise disturbance	Monitoring of noise levels	Noise monitoring specialist	6 monthly
	Air quality loss	Monitoring of dust fall	Air monitoring specialist	6 monthly
	Waste management	Monitoring waste management	Environmental Manager	Continuous
Chemical and hydrocarbon fluid storage	Vegetation loss	Extent of vegetation loss	Environmental Manager	Yearly
		Vegetation re-establishment rate	Environmental Manager	Yearly
		Presence of invader species	Environmental Manager	Yearly
	Soil pollution	Visible spills on ground	Environmental Manager	Continuous
	Noise disturbance	-	-	-
	Air quality loss	-	-	-
	Waste management	Monitoring waste management	Environmental Manager	Continuous
Diesel storage	Vegetation loss	Extent of vegetation loss	Environmental Manager	6 monthly
		Vegetation re-establishment rate	Environmental Manager	Yearly
		Presence of invader species	Environmental Manager	Yearly

	Soil pollution	Visible spills on ground	Environmental Manager	Continuous
	Noise disturbance	-	-	-
	Air quality loss	-	-	-
	Waste management	Monitoring waste management	Environmental Manager	Continuous
Domestic waste facility	Vegetation loss	Extent of vegetation loss	Environmental Manager	Yearly
		Vegetation re-establishment rate	Environmental Manager	Yearly
		Presence of invader species	Environmental Manager	Yearly
	Soil pollution	Visible scattered litter	Environmental Manager	Continuous
	Noise disturbance	-	-	-
	Air quality loss	-	-	-
	Waste management	Monitoring waste management	Environmental Manager	Continuous
Access and hauling road	Vegetation loss	Extent of vegetation loss	Environmental Manager	Continuous
		Vegetation re-establishment rate	Environmental Manager	6 monthly
		Presence of invader species	Environmental Manager	6 monthly
	Soil pollution	Visible spills on ground	Environmental Manager	Continuous
	Noise disturbance	Monitoring of noise levels	Noise monitoring specialist	Yearly
	Air quality loss	Monitoring of dust fall	Air monitoring specialist	Yearly
	Waste management	Monitoring waste management	Environmental Manager	Continuous

1.9 Indicate the frequency of the submission of the performance assessment / environmental audit report

The submission of the performance assessment / environmental audit reports will be done on an annual basis and on decommissioning and closure of the project as legislatively required.

1.10 Environmental awareness plan

1.10.1 Manner in which the applicant intends to inform his or her employees of any environmental risk which may result from their work

Initial employee training will be done on employment of personnel, handling all issues related to General and Conservational Environmental Awareness. Follow up training workshops will be held on a yearly, during tool-box talks and when expansion and/or implementation of new equipment are introduced to the mine.

Motivation:

- Inspections will be held on a regular basis against the do's and don'ts listed within this document. Immediate penalties can be given to offenders.

- On the discretion of the mine, motivation can be implemented

1.10.2 Manner in which risks will be dealt with in order to avoid pollution or the degradation of the environment.

- Everyday Awareness ○ Littering – As wild species still roam the area from time to time, the accidental ingestion of litter is a possibility and highly dangerous as it can and will kill the animal involved. Even when not ingested smaller mammals are always at risk in getting tangled with plastics, rubber etc., this can ensure numerous suffering and eventually death of the animal.

  Plastics, rubber, some types of paper and glass are not biodegradable and release poisons into the environment when exposed to harsh weather conditions. Even when buried, they tend to resist weathering. These poisons released into the environment can be harmful to our plant species, but even if it is not harmful to the plant itself the plant tend to store all absorbed substances in their fruit, roots and root tuber and the last mentioned may be utilized by humans or animals leading to the consumption for harmful chemicals that may pose illness or even death.

  No glass, paper, plastics and cigarette buds are to be littered during the duration of the mining operations. Garbage containers will be installed and maintained to prevent litter pollution.

  ○ Open fires – The Northern Cape is generally known as a semi-arid region with less than normal rainfall per annum. It is however by law prohibited to start open fires.

Due to the hot and dry conditions of the region is it very susceptible for run-away fires. No open fires will be tolerated during the mining period and as this is regarded by law as a criminal offence related penalties can be issued. The littering of self ignitable substances or objects (e.g. matches) are also not allowed as it will always pose a danger regarding field fires, and if such happen the person responsible to the littering will be charged with arson and related penalties can be issued.

- Sanitation and Personal Hygiene

  Sanitation and personal hygiene is a very important subject for environmental and social health. Improper sanitation habits can lead to intestinal parasite infestations within humans and animals, endangering the overall health of the recipients. Unfortunately these infestations do not stay only within the host and will spread rapidly throughout a community or herd.

  Human viruses like Tubercle bacillus (TB) and Herpes simplex, both are very contagious, spread vigorously throughout a community not handling good hygiene habits/practices.

  - ✓ Strict use and cleanliness of the toilette facilities will be enforced during the entire life of mine.

  - ✓ Employees will further be advised and educated on the importance of consuming clean and fresh water. Several sites will be identified and water tanks will be erected for safe human water consumption.

- Fauna – Wild animals roaming within the area is a common sight from time to time, but reptiles and smaller rodents permanently inhabit the area. Wild animals are and will always be very dangerous.

  Employees and contractors will be advised to stay clear from any wild animal or reptile and not to try and provoke them in any manner. They will further be educated on dangerous and poisonous reptiles and the actions to be taken when such reptiles are encountered.

- Flora

  The vegetation of the Northern Cape regions is very fragile and easily endangered by alien species invading the Northern Cape at an alarming rate and due to the slow growth rate of our indigenous species.

  - ✓ No indigenous shrubs of trees will be unnecessarily uprooted and utilized for firewood, the employees will rather be advised to utilize invader species and be educated on which plant species are indigenous, endangered or alien.

  - ✓ If any invader species are observed the reporting thereof to the rehabilitation site manager will be highly recommended.

- ✓ Penalties will be given to individuals that damage any endangered species.

- Work Related Awareness ○

Workshops

All workshop personnel will receive a basic information session regarding the threats of diesel, oil and other related chemicals impose on the environment.

The following must be implemented or enforced:-

- ✓ Before cleaning the work shop, make sure all spillages have been treated
- ✓ When handling related chemicals make sure of non-spillage procedures.
- ✓ Make sure boots are cleaned from chemicals before leaving the workshop into the unprotected environment
- ✓ Vehicles must be in the workshop before removal of drip trays
- ✓ When working on equipment outside the workshop, the appropriate measures needs to be implemented to prevent chemical spillage
- ✓ Related waste/scrap must be dispose off in the appropriate manner.

○ Wash bay

Although washing of vehicles do not pose a risk to the environment several pointers need to be adhered to:-

- ✓ Be sure that the electrical wires of the washing equipment do not make any contact with water used
- ✓ Plastic and domestic wastes removed from the vehicles from the vehicles need to be discarded in the appropriate manner
- ✓ If any oil or diesel leakage is observed, immediate communication and repair of vehicle needs to be done
- ✓ Make sure boots are cleaned from chemicals before leaving the bay into the unprotected environment
- ✓ When a detergent is used it must be ensured that it is biodegradable and allocated for this purpose

○ Heavy vehicle operators

All heavy vehicles pose a threat to the environment in several ways. Some awareness must be initiated by the operators to minimize the threat to the environment

The following must be implemented or enforced:-

- ✓ Daily checking for oil/diesel leakages before vehicle is operated
- ✓ Drip trays must be installed during “off-time”
- ✓ Immediate communication with the workshop when faults are observed.
- ✓ Strict adherence to the roads and no off-road driving to prevent trampling of vegetation
- ✓ Driving speed must be complied with. Beware of animals, workers and other vehicles.

- Machinery operators

  Although the operational mining equipment does not pose any environmental risk, employees still need to adhere to some measurements to prevent spillage

- Maintenance personnel

  All maintenance personnel must receive basic training on work related environmental awareness to minimize/eliminate the possibility of environmental degradation

  Pointers that will be looked at:-

  - ✓ Electricians may not leave any cables unprotected scatted on the site – animals may get tangled
  - ✓ During fencing/rehabilitation common fence wires may not be left scattered as these rust over time – any cuts to animals and humans (sepsis and tetanus risk) can lead to suffering or great discomfort.
  - ✓ No metals may be left scattered as it pose the same threat as described directly above
  - ✓ All personnel handling chemical relating products must follow handling procedures – any spillage contaminating the ground will pose risk to environmental degradation
  - ✓ All chemicals used must be put to storage afterwards – containers may leak and environmental contamination occurs.

1.11 Specific information required by the Competent Authority

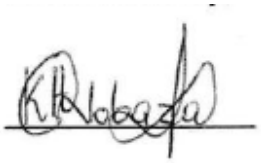
(Among others, confirm that the financial provision will be reviewed annually)

- Annual Renewal of financial provision
- Annual Monitoring and Compliance Report
- Annual Progress Report
- Annual Environmental Awareness Training Report

2. Undertaking

The EAP herewith confirms

a) the correctness of the information provided in the reports
b) the inclusion of comments and inputs from stakeholders and I&APs
c) the inclusion of inputs and recommendations from the specialist reports where relevant; and
d) the acceptability of the project in relation to the findings of the assessment and level of mitigation proposed.
e) 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.



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Signature of the Environmental Assessment Practitioner

Name of Company: **Thaya Trading Enterprise CC Date: 28 November 2022**

***** END *****

2022

week 32

219 • 146

Monday **07** AUGUST

07:00 PUBLIC PARTICIPATION MEETING

07:30 DATE: 08 AUGUST 2022

REF: NC 30/5/1/3/2/10974 MP

08:00 ERF

NAME SURNAME	ADRESS	Signature	CONTACT
1. SETSHABA SEGWAGWA	2645 ZONE B	[illegible]	061 952 9420
2. Aobakwe Keganeditswe	2644 Zone B	[illegible]	078 323 8931
3 Tebogo Khesa	2604 Zone B	T.J. KH	078 373 2950
4 Tsietsi Shomoleele	2188 Zone B	[illegible]	0768605166
5 Jeremia Tcoaz	2631 Zone B	[illegible]	083 8686855
6 Ronald Shomoleele	2669 Zone B	[illegible]	0635507701
7 Jeffrey Shomoletle	2631 Zone B	[illegible]	073 4997826
8 Dipuo Maitapa	3005 Mocumie	[illegible]	0640269357
9 Portia Phethhane	135 Magiel	P. Phethhane	0648523455
10 Boitumelo Leic	136 Magile	[illegible]	0737046945
11 Lesego Mocymie	161 Bopapie	L Mocumie	0716195250
12 Abel Mocomie	95 Methodi	Mocumie	0567100261
13 Bontolo Rens	1429 Magile	Rns	0673414272
14 Jacob Nkuke	163 Str	[illegible]	0717576360
15 Johanna Rulane Kheswa	120 Bopapie Str	[illegible]	0718723630
16 Emily Mokgithinyane	115 Bopapie Str	[illegible]	
17 Johanna Mampone	234 tau street	J Mampane	0718783630
18 Puleng Pitso	117 Bopapi Str	P.M. Pitso	073 6620285
19 Dibueng Motlhale	117 Bopapi Str	[illegible]	063 3606373
20 Mantipa Mongale	03 Methodist Str	M N Mongale	060 0904890
21 Magdelina Rens	1429 Magile St	T.M Rens	0763515338
22 Jerry Nkuke	1429 Magile	Nkuke	—
23 Thapelo Kekobilwe	1339 Botlholo	Kekobilwe	084 630203
24 Nomvulaza Kekobilwe	42 Gopane	[illegible]	083 694 1618
25 Lydia Phethane	135 Magiel	L. Phethae	064 8523455
26 Johann Moeketsi	630 Molimola	Moeketsi	063 0726967
27 Lovedelia Lukang	120 Bopapie	L. Lukang	082 777 7375
28 Yanchor Seole	1561 Magile Str	Seole	071 577 9732
29 Lelthogonolo Ocaman	2431 Mocumie	[illegible]	083 928 5542
30. Palesa Hlakoane	2428 Mocumie Str	Hlakoane	084 710 3636

JULY 2017

M	T	W	T	F	S	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

AUGUST 2017

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28	29	30	31			

SEPTEMBER 2017

M	T	W	T	F	S	S
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OCTOBER 2017

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30	31					

NOVEMBER 2017

M	T	W	T	F	S	S
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27	28	29	30			

DECEMBER

M	T	W	T	F	S	S
				1	2	3
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714 PUBLIC NOTICES

Notice is respect of a licence application in terms of the Petroleum Products Act, 1977 (Act No120 OF 1977)

This notice serves to inform parties that may be interested or affected that **ULTRA PETROLEUM**, herein referred to as **"the applicant"**, has submitted an application for a **RETAIL** licence, application number **H/2022/07/29/0001**.

RESTANT VAN ERF 169 GRIEKWASTAD
6 HOOFSTRAAT
GRIEKWASTAD
GRIEKWASTAD

The purpose of the application is for the application to be granted a licence to undertake petroleum retailing activities as detailed in the application.

Arrangements for viewing the application documentation can be made by contacting the Controller of Petroleum Products by:

Telephone : (053) 807 1700 ; or
Fax : 086 517 7881; or
Email : Sebabatso.Mohapi@dmre.gov.za

Any objections to the issuing of a licence in respect of this application, which must clearly quote the application number above,must be lodged with the Controller of Petroleum Products within a period of Twenty (20) working days from the date of publication of this notice. Such Objection must be lodged at the following physical or postal address:.

Physical address:
The controller of Petroleum Products
Department Mineral Resources & Energy
41 Schmidtsdrift Street, Telkom Building, Kimberley

Postal address:
The controller of Petroleum Products
Department Mineral Resources & Energy
Private Bag X 6093, Kimgerley, 8301

714 PUBLIC NOTICES

PUBLIC PARTICIPATION PROCESS FOR ENVIRONMENTAL AUTHORIZATION APPLICATION NC30/5/1/3/2/10974MP

Notice is hereby given to general public in terms of section 16(4) (b) of MPRDA 2002, Environmental Authorization in terms of NEMA, Act no 28 of (2002) (as amended) in respect of listed activities that have been triggered by application in terms of MPRDA 2002.

Batho Pele Mining Co-op application for diamond has been accepted for EA application on the certain portion of Erf 769 Warrenton, Francis Baard District, Northern Cape.

Interested and Affected Parties (IAPs) are invited to provide written comments or objections with regards to this accepted application.

Submit comments/ objections to DMRE office within 30 days from the date of objection of this notice.

For more info:
Contact: Tebogo Victor Taku
Email: bathopelemc@gmail.com
Cell: 074 064 5597

DMRE Regional Office
Email: Ntombi.Mayekiso@dmre.gov.za
Private Bag X 6093, Kimberley
Fax: 053 832 8593

714 PUBLIC NOTICES

PUBLIC NOTICE

Colville community and surrounding areas:

Kimberley Comes Alive Festival 2022

will take place on
1 October 2022
Start time: 12:00 pm
End time: 24:00 pm

714 PUBLIC NOTICES

UMSOBOMVU LOCAL MUNICIPALITY

PUBLIC AUCTION

Notice is hereby given that Umsobomvu Municipality will in terms of Section 110(1) (b) of the Municipal Finance Management Act 56 of 2003, sell redundant electrical material and equipment per public auction to be held as follows:

(I) **DATE:** 30 AUGUST 2022; (COLESBERG)
REGISTRATION TIME: 09:00; • **BIDDING START TIME:** 10:00;
BIDDING VENUE: UMSOBOMVU MUNICIPAL WORKSHOP, PHILLIPSTOWN ROAD, COLESBERG

(II) **DATE:** 31 AUGUST 2022 (NOUPOORT)
REGISTRATION TIME: 09:00 • **BIDDING START TIME:** 10:00;
BIDDING VENUE: UMSOBOMVU MUNICIPAL WORKSHOP, MURRAY STREET, NOUPOORT.

TYPE OF GOODS TO BE AUCTIONED: Electrical cables (different sizes and lengths); Aluminium and copper overhead conductors (different sizes and lengths); Transformers (different sizes), Three phase electrical motors (different sizes).

CONDITIONS AND AUCTION RULES: (full document available on web site) No Reserve prices; All Goods to be sold "Voetstoots"; VAT Payable on all goods; FICA documents required to register; A refundable deposit of R1 000.00 for registration will be required; No cash will be accepted; All payments are by EFT.

For enquiries contact Mr B.J. Kapp @ 082 806 1828 or
Mr S. Nkcithiso @ 073 216 3482 during office hours.

A.C. MPELA
MUNICIPAL MANAGER
UMSOBOMVU MUNICIPALITY
21A CHURCH STREET
COLESBERG
9795

Date: 5 August 2022
Notice Number: 26/2022

717 TENDERS

714 PUBLIC NOTICES

PUBLIC NOTICE

CONSULTATION FOR PROSPECTING RIGHT

Notice is hereby given in terms of Section 16 of the Mineral and Petroleum Resources Development Act, 2002 as amended by Section 12 of the Act 49 of 2008 and Environmental Authorization in terms of National Environmental Management Act (Act No 107 of 1998) as amended.

Applicant: KIMBERLEY IMPEX GROUP (PTY) LTD

Location: Farm Paarde Vlei 151 is located approximately 36km North East of the town Marydale in the district of Hay, Northern Cape Province.

Description of the proposed activities (Listing Notice 1 Activity No.20 of GNR 983);

- The application is for prospecting right in respect of Copper and Diamonds without bulk sampling. The prospecting activities will be conducted using drilling and pit testing methods whereby two trenches measuring approximately 5mx5mx10m will be excavated by excavator. A total of 30 boreholes will be drilled to a depth of 50m.
- The preparation of the Public Participation and Basic Assessment Report (relevant environmental reports).
- The proposed consultation work will be undertaken by Golcor (Pty) Ltd on behalf of the applicant.

Any interested and affected parties are invited to register as a stakeholder and lodge their comment or objection for the above proposed prospecting activities in terms of the acceptance before the 15th August 2022.

Comments and objections can be forwarded to the consultant whose details appear below.

Golcor (Pty) Ltd
E-mail: corporationgoliath@gmail.com
cell: 082 452 3693

714 PUBLIC NOTICES

PUBLIC PARTICIPATION CONSULTATION PROCESS FOR ENVIRONMENTAL AUTHORISATION APPLICATION DMR REFERENCE NUMBER: NC 30/5/1/1/2/12965 PR

Notice is hereby given to the general public in terms of section 16(4)(b) of the MPRDA 2002, Environmental Authorizations in terms of the National Environmental Management Act, (Act No.28 of 2002) (As amended) 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).

Premier Attraction 133 CC has been applied for the Environmental Authorization on the **Remaining Extent, Portion 1 and 2 (Limeridge) of the Farm 261** situated within the administrative district of Barkley West in the **Northern Cape Province.**

Interested and affected parties (I&APs) are invited to provide written comments.I&APs must provide their comments together with their name, contact details. (or other interest which they have in the application to the contact person indicated below within 30 days from the date of this notice.

For more information contact Ms. Tshivheaho Manena on the following details: E-mail Address: tshivheaho@gmail.com Office Number. 072 935 9379. Postal address 27 Old De Beers Road, Kimberley 8301

717 TENDERS

APPOINTMENT OF SERVICE PROVIDER FOR SUPPLY AND ERECTION OF A HIGH SECURITY FENCE AT GREENPOINT HIGH SCHOOL

THE BID TO BE EVALUATED/ADJUDICATED IN TERMS OF CIDB PRESCRIPTS.

- **CIDB GRADING: 4SQ AND ABOVE.**
- **BID DOCUMENTS WILL BE AVAILABLE FROM THURSDAY 04 AUGUST 2022**

GREENPOINT HIGH SCHOOL
23 REDWOOD STREET
GREENPOINT
KIMBERLEY
8301

- **COMPULSORY SITE BRIEFING – 04 AUGUST 2022@ 09H30 FOR 10H00 SHARP**
- **TENDERERS MUST BE REGISTERED ON CENTRAL DATABASES AS PRESCRIBED IN THE TENDER CONDITIONS.**
- **A NON-REFUNDABLE TENDER FEE OF R500-00(CASH) IS PAYABLE BEFORE ATTENDING THE COMPULSORY SITE BRIEFING.**
- **TELEGRAPHIC, TELEPHONIC, TELEX, FACSIMILE, E-MAILS AND LATE TENDERS WILL NOT BE ACCEPTED.**
- **TENDERS MAY ONLY BE SUBMITTED ON THE TENDER DOCUMENTS THAT HAVE BEEN ISSUED. PRINTED BILLS OF QUANTITIES, IN THE SAME FORMAT (THAT IS, LAYOUT, BILLED ITEMS AND QUANTITIES) AS THOSE ISSUED ELECTRONICALLY BY THE EMPLOYER UPON REQUEST, MAY BE SUBMITTED AS STATED IN THE TENDER DATA.**
- **TENDER DOCUMENTS WILL BE MADE AVAILABLE AT THE SCHOOL AFTER PROOF OF PAYMENT AT THE COMPULSORY SITE BRIEFING.**
- **THE SCHOOL WILL NOT BE HELD LIABLE FOR INCORRECT CONTRACTOR INFORMATION PROVIDED ON ATTENDANCE REGISTER AT THE COMPULSORY SITE BRIEFING.**

HAND DELIVER BIDS: TO GREENPOINT HIGH SCHOOL
CLOSING DATE: THURSDAY 18 AUGUST 2022 AT 11H00
FOR FURTHER INFORMATION CONTACT:
THE PRINCIPAL
DR. B. BOOYSEN
079 690 3627
THE SGB CHAIRPERSON
MR. L. MONYOBO
073 565 8226

List of REGISTERED LETTERS
Lys van GEREGISTREERDE BRIEWE
(with an insurance option/met 'n versekeringsopsie)

Post Office

Full tracking and tracing/Volledige volg en spoor

Enquiries/Navrae Sharecall number/nommer
0860 111 502
www.postoffice.co.za

Name and address of sender:
Naam en adres van afsender: Bathopele Primary Mining Co-Operative
No 8 Southey Street Kimberley (opposite Kelpoletse)
8301 bathopelemc@gmail.com

No	Name and address of addressee Naam en adres van geadreseerde	Insured amount Versekerde bedrag	Insurance fee Versekeringsgeld	Postage Posgeld	Service fee Diensgeld	Affix Track and Trace customer copy Plak Volg-en-Spoor-Kliëntafskrif
1	Department of Water and Sanitation Private Bag x 6101 Kimberley 8300					SECUREMAIL RH 050 937 951 ZA OFFICE REGISTER COPY
2	Department of Agriculture Private Bag x 5018 Kimberley 8300					SECUREMAIL Tell: 011-281 3310 www.sapo.co.za RH 050 937 965 ZA DEDICATED OFFICE COPY
3	Eskom P.O Box 606 Kimberley 8300					SECUREMAIL RH 050 937 948 ZA OFFICE REGISTER COPY
4	THE MUNICIPAL MANAGER Magareng 8630 Local Municipality P.O Box 10 Warrenton					SECUREMAIL RH 050 937 934 ZA OFFICE REGISTER COPY
5	THE ACTING CEO TRANSNET 9 Country Estate Drive Waterfall Business Estate MIDRAND 1600					SECUREMAIL RH 050 937 925 ZA OFFICE REGISTER COPY
6	Dept of RURAL DEVELOPMENT AND LAND REFORM Private Bag x2458 KIMBERLEY 8300					SECUREMAIL RH 050 937 917 ZA OFFICE REGISTER COPY
7	SOUTH AFRICAN HERITAGE RESOURCES AGENCY (SAHRA) HEAD OFFICE 111 HARRINGTON CPT 8001					SECUREMAIL RH 050 929 875 ZA OFFICE REGISTER COPY
8	Dept of Enviromental Affairs PRIVATE BAG x 6102 Kimberley 8300					SECUREMAIL RH 050 100 151 ZA OFFICE REGISTER COPY
9						
10						
	Total Totaal	R	R	R	R	

Number of letters posted
Getal briewe gepos 8/EIGHT

Signature of client
Handtekening van kliënt

Signature of accepting officer
Handtekening van aanneembeampte

Date stamp
KIMBERLEY 6 20 JUL 2022 8301
Datumstempel

The value of the contents of these letters is as indicated and compensation is not payable for a letter received unconditionally. Compensation is limited to R100.00. No compensation is payable without documentary proof.
Optional insurance of up to R2000,00 is available and applies to domestic registered letters only.

Die waarde van die inhoud van hierdie briewe is soos aangedui en vergoeding sal nie betaal word vir 'n brief wat sonder voorbehoud ontvang word nie. Vergoeding is beperk tot R100.00. Geen vergoeding is sonder dokumentère bewys betaalbaar nie. Opsionele versekering van tot R2000,00 is beskikbaar en is slegs binnelandse geregistreerde briewe van toepassing.

701248

No 8 SOUTHEY STREET
KIMBERLEY
8301
bathopelemc@gmail.com
074 064 5597

July 03, 2022

DEPARTMENT OF AGRICULTURE
PRIVATE BAG X5018
KIMBERLEY
8300

In terms of Section 16(4)(b) and 27(5)(b), you are hereby notified of the acceptance of the mining permit of Batho Pele Mining Co-Op with reference number: NC10/5/1/2/3/10974MP

In terms of section 27 of Mineral and Petroleum Development Act of 2002, the mining permit application with the above mentioned reference has been accepted, situated on the certain portion of Erf 769 Warrenton in the Francis Baard district.

Activity granted

Activity 21: All activity, including the operation of particular activity in terms of Section 27 of the MPRDA Act, 2002 (Act No. 28 of 2002), including associated infrastructure, structure and earthworks, directly related to the extraction of the mineral resource with primary processing of a mineral resource such as extraction, classifying, reduction, concentrating, winning, crushing, screening and washing.

Should you wish to submit an objection or comments against the acceptance of this application must be submitted within 30 days of this notification to the department of Mineral Resources and Energy (Kimberley Office).

Attention: Office of the Regional Manager
By Email: Ntombi.Mayekiso@dmre.gov.za
Fax: 053 832 8593
Post: Private Bag X6093, Kimberley, 8300

For any other concern regarding this project, contact project owner Mr Tebogo Victor Taku
Email: bathopelemc@gmail.com
Cell: 074 064 5597

If no Correspondence received from you within stated period, it will be accepted that you have no objection against the proposed mining operation

Yours Sincerely

No 8 SOUTHEY STREET
KIMBERLEY
8301
bathopelemc@gmail.com
074 064 5597

July 03, 2022

DEPARTMENT OF ENVIRONMENTAL AFFAIRS
PRIVATE BAG X6102
KIMBERLEY
8300

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Yours Sincerely

No 8 SOUTHEY STREET
KIMBERLEY
8301
bathopelemc@gmail.com
074 064 5597

July 03, 2022

ESKOM
PO BOX 606
KIMBERLEY
8300

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Yours Sincerely

No 8 SOUTHEY STREET
KIMBERLEY
8301
bathopelemc@gmail.com
074 064 5597

July 03, 2022

THE MUNIPAL MANAGER
MAGARENG LOCAL MUNICIPALITY
PO BOX 10
WARRENTON
8530

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Yours Sincerely

No 8 SOUTHEY STREET
KIMBERLEY
8301
bathopelemc@gmail.com
074 064 5597

July 03, 2022

DEPARTMENT OF RURAL DEVELOPMENT & LAND REFORM
PRIVATE BAG X2458
KIMBERLEY
8300

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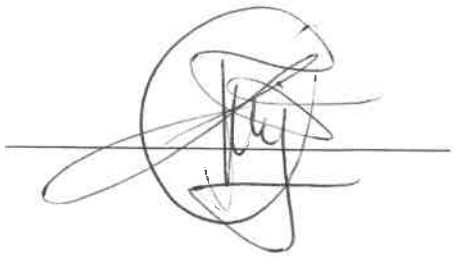

No 8 SOUTHEY STREET
KIMBERLEY
8301
bathopelemc@gmail.com
074 064 5597

July 03, 2022

SOUTH AFRICAN HERITAGE RESOURCES AGENCY (SAHRA)
HEAD OFFICE
111 HARRINGTON OFFICE
CAPE TOWN
8001

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Yours Sincerely

No 8 SOUTHEY STREET
KIMBERLEY
8301
bathopelemc@gmail.com
074 064 5597

July 03, 2022

THE ACTING CEO
TRANSNET
9 COUNTRY ESTATE DRIVE
WATERFALL BUSSINESS ESTATE
MIDRAND
1600

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Email: bathopelemc@gmail.com

Cell: 074 064 5597

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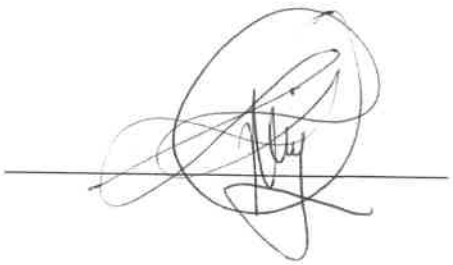
Yours Sincerely



No 8 SOUTHEY STREET
KIMBERLEY
8301
bathopelemc@gmail.com
074 064 5597

July 03, 2022

DEPARTMENT OF WATER AND SANITATION
PRIVATE BAG X6101
KIMBERLEY
8300

In terms of Section 16(4)(b) and 27(5)(b), you are hereby notified of the acceptance of the mining permit of Batho Pele Mining Co-Op with reference number: NC10/5/1/2/3/10974MP

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