

ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT FOR PROSPECTING RIGHT APPLICATION PROCESS WITH REGARDS TO THE PROSPECTING ACTIVITIES WITH BULK SAMPLE ON THE FARM ROODERAND.

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

NAME OF APPLICANT: BONIZENZO HOLDINGS (PTY) LTD

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FILE REFERENCE NUMBER SAMRAD: NW 30/5/1/1/2/13296 PR

MINING RIGHT REFERENCE NUMBER: NW 30/5/1/1/2/13296 PR

1. Draft Environmental Management Programme

a) Details of EAP

Details of EAP are included in Part A, Section 3(a) herein as required

b) Description of the Aspect of the Activity

i. Location of the Activity

It should be noted that detail information about the location of the activities is covered under Part A. (H) (i) (a) of this application.

ii. Type of Activity to be undertaken

It should be noted that detail information about the location of the activities is covered under Part A (d) (ii) of this application.

iii. Composite Map

Refer to Appendix 2 for composite Map

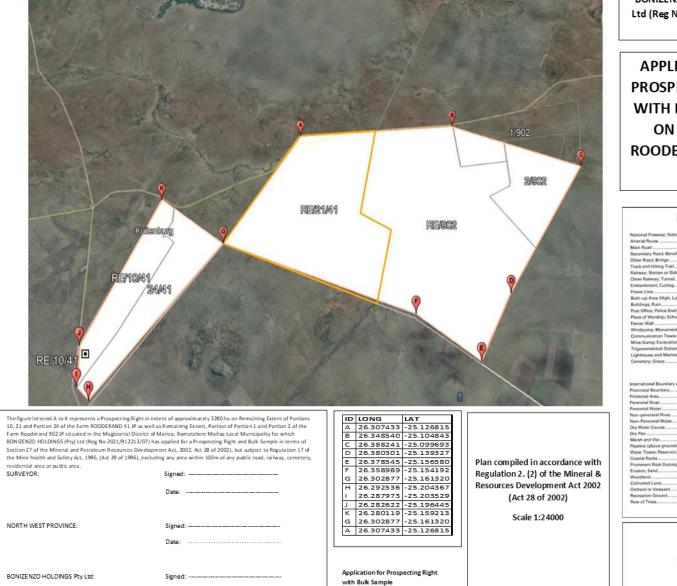


Figure 1: Bonizenzo Prospecting Right Area

BONIZENZO HOLDINGS (Pty) Ltd (Reg No 2021/912213/07)

APPLICATION FOR PROSPECTING RIGHT WITH BULK SAMPLE ON THE FARM ROODERAND 41 JP & 902 JP





c) Description of impact management objectives including management statements

i) Determination of closure objectives

The closure objectives represent the key measurable closure targets for the various closure planning aspects, based on the determined closure state, that are within the operation's control. Ultimately, closure objectives should be contextualised to represent achievement of the closure vision and related closure state. The closure objectives for Rooderand Prospecting Right Project include:

Land use and capability:

- To mimic regional geomorphological features by maintaining a free-draining topography across the areas that will be disturbed as part of this project.
- To maintain a grazing land use, as defined in the Guidelines for the Rehabilitation of Mined Land (2007).
- All disturbed areas adjacent to the infrastructural areas to be re-vegetated with an indigenous grass mix, to re-establish a protective cover, to minimise soil erosion and dust emission.
- During the decommissioning phase the footprint must be thoroughly cleaned, and all waste material generated should be removed to a licensed disposal facility.
- Any compacted soils must be ripped to alleviate compaction.
- Stored topsoil to be replaced (if any) and the footprint graded to a smooth surface.
- The landscape to be backfilled and reprofiled to mimic the natural topography for potential agricultural activities and grazing opportunities post mining. If possible, ensure a continuation of the pre-mining surface drainage pattern.
- Slopes of the backfilled surface should change gradually since abrupt changes in slope gradient increase the susceptibility for erosion initiation.
- The soil fertility status should be determined by soil chemical analysis after levelling (before seeding/re-vegetation). Soil amelioration should be completed, if necessary, according to recommendations by a soil specialist, to correct the pH and nutrition status before revegetation.

- The footprint should be re-vegetated with a grass seed mixture as soon as possible, preferably in spring and early summer to stabilise the soil and prevent soil loss during the rainy season.
- To achieve creation of habitats for local fauna expected to occur within the rehabilitated areas on which a grazing land use is taking place.
- To maintain the visual landform as aligned to the approved surface rehabilitation landform design of the rehabilitated landscape, that blend into the surrounding areas.
- To remove mine infrastructure that cannot be used by a subsequent land owner or a third party. Where buildings can be used by a third party, arrangements will be made to ensure their long-term sustainable use.

Surface and groundwater:

- To continue to contribute to the catchment yield associated with the Catchment Management Areas.
- To prevent any soil and surface/groundwater contamination by managing all water on site.
- To limit the project study area (natural plume movement) and potential decant to the Leeuwfonteinspruit.
- To prevent groundwater contamination by continuing with the monitoring of the groundwater boreholes water quality and if the quality deteriorates, it is recommended to start pumping the contaminated into a containment facility for evaporation and to contain the plume.

Air quality

 To maintain local ambient air quality parameters of PM₁₀ to agreed-on, predefined human health-related against the ambient air quality standards and the dust fallout rates in terms of the National Dust Control Regulations (GNR827 of 2013).

Social

- To achieve a safe and healthy environment for people and animals, through achievement of the land use, water and air quality closure objectives.
- To leave a safe and stable environment for both humans and animals.
- To have completed implementation of the closure-related projects agreed-on in the mine's approved Social and Labour Plan, focusing on personal skills development and local economic development.
- General closure and economic benefits:

- To follow a process of closure that is progressive and integrated into the short and long term mine plans and that will assess the closure impacts proactively at regular intervals throughout project life.
- To develop a plan for care-and-maintenance of the related surface infrastructure that has a beneficial re-use, for hand-over to- and accountability by the next land owner.
- o To comply with local and national regulatory requirements.
- To maintain and monitor all rehabilitated areas following re-vegetation or capping and, if monitoring shows that the objectives have been met, making an application for closure.
- To leave behind a rehabilitated landscape that will retain long-term economic value for future land owners.
- ii) Values and rate of water use required for the operation

None. Limited domestic water and water for prospecting activities are required. All water will be sourced from a legally accessible site or via a Water Service Provider.

iii) Has water use licence been applied for?

There are no activities that are triggering section 21 to apply for a water use licence.

iv) Impacts to be mitigated in their respective phase

PROJECT PLANNING AND DESIGN PHASE – PLACEMENT OF INFRASTRUCTURE

Name of Activity	SIZE AND	PHASE	COMPLIANCE WITH	MITIGATION MEASURES	TIME PERIOD FOR
(eg: prospecting- drilling	SCALE OF	In which impact is	STANDARDS	(modify, remedy, control, stop)	IMPLEMENTATION
site, camp site,	DISTURBANCE	anticipated		(e.g. noise control measures, storm water	
accommodation,				control, dust control, rehabilitation, design	
equipment storage, site		(e.g. Construction,		measures, blasting controls, avoidance,	
office access route etc)		commissioning,		relocation, alternative activities etc)	
		operational,			
		decommissioning,		E.g., Modify through alternative methods.	
		closure, post-closure)		Control through noise control through	
				management and monitoring though	
				rehabilitation	
Site Establishment and	Approximately	Pre-construction or	All recommendations	Vegetation clearance should be limited to	During site
clearing of vegetation	100 m ²	operation	and mitigation	the authorised directional drilling footprint	establishment, site
(which includes site			measures will ensure	only.	management and
preparation and			the preservation of	At all vertical borehole positions the	decommissioning.
preparation and upgrade of			the topsoil in order for	footprint will be cleared by mowing the	
access roads)			it be used for	sections. No stripping of topsoil or clearing	
			rehabilitation and	of vegetation will be required.	
			assist in reducing any	Dust will be suppressed at all times. Dust	
			environmental	nuisance will be assessed visually and	
			degradation to air	complaints assessed and addressed.	

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accommodation,				control, dust control, rehabilitation, design	
equipment storage, site		(e.g. Construction,		measures, blasting controls, avoidance,	
office access route etc)		commissioning,		relocation, alternative activities etc)	
		operational,			
		decommissioning,		E.g., Modify through alternative methods.	
		closure, post-closure)		Control through noise control through	
				management and monitoring though	
				rehabilitation	
			quality or damage on	All designated footprint areas will be	
			heritage sites.	secured and demarcated at all times while	
				in use.	
				All areas outside of the authorised	
				footprint should be regarded as no-go	
				areas for any staff members.	
				Vegetation clearing shall only take place	
				when the individual site is to commence	
				with vertical drilling works, in order to	
				retain vegetation cover for as long as	
				possible. This would reduce the size of	
				areas where dust can be generated and	
				avoid erosion limiting the exposure of	
				sediment runoff.	

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accommodation,				control, dust control, rehabilitation, design	
equipment storage, site		(e.g. Construction,		measures, blasting controls, avoidance,	
office access route etc)		commissioning,		relocation, alternative activities etc)	
		operational,			
		decommissioning,		E.g., Modify through alternative methods.	
		closure, post-closure)		Control through noise control through	
				management and monitoring though	
				rehabilitation	
				• Site clearance will encourage the	
				introduction of alien invasive plant	
				species. Applicant Projects will ensure	
				that the area cleared is free of alien plants	
				propagating at all times.	
				All sites disturbed by construction activities	
				must be monitored for exotic or alien	
				invasive plant species and weeds.	
				Chemical or mechanical removal may be	
				used. If chemical methods are used the	
				method of use is to be undertaken in	
				accordance with manufacturer's	
				specification for the weeds and this	

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office access route etc)		commissioning,		relocation, alternative activities etc)	
		operational,			
		decommissioning,		E.g., Modify through alternative methods.	
		closure, post-closure)		Control through noise control through	
				management and monitoring though	
				rehabilitation	
				method and management is to be	
				approved by the EP.	
				Any eradicated exotic/invasive plant or	
				weed vegetation must be removed from	
				site and disposed of at an approved waste	
				disposal facility or dried out and then	
				burned, any method can be used to	
				dispose of the alien invasive plants as long	
				as it is within the law and the plants have	
				no possibility of propagating.	
				During the process of stripping topsoil care	
				should be taken to ensure that no topsoil is	
				contaminated with oil and grease, foreign	
				material or alien plants. The topsoil will be	

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equipment storage, site		(e.g. Construction,		measures, blasting controls, avoidance,	
office access route etc)		commissioning,		relocation, alternative activities etc)	
		operational,			
		decommissioning,		E.g., Modify through alternative methods.	
		closure, post-closure)		Control through noise control through	
				management and monitoring though	
				rehabilitation	
				stored in a manner that will prevent any	
				loss of topsoil via the natural elements.	
				Topsoil is not to be double-handled, it is to	
				be stripped, stockpiled then once the area	
				has been prepared for rehabilitation, the	
				topsoil is will be replaced in its original	
				position. The topsoil will be hand seeded	
				with an indigenous Highveld grass seeds	
				mix, approved by the Environmental	
				Officer if more than 30% bare ground is	
				seen after one rainy season.	
				Alien Plant monitoring and eradication	
				schedule will be implemented from the	
				onset of construction and operation.	

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equipment storage, site		(e.g. Construction,		measures, blasting controls, avoidance,	
office access route etc)		commissioning,		relocation, alternative activities etc)	
		operational,			
		decommissioning,		E.g., Modify through alternative methods.	
		closure, post-closure)		Control through noise control through	
				management and monitoring though	
				rehabilitation	
Diamond Drilling,		Operation	All recommendations	Ensure that the use of machines do not	During operational
Percussion drilling and			and mitigation	disrupt any services (i.e. electricity, water,	activities.
directional drilling and			measures will ensure	sewer and telephone lines).	
installation of Sumps			little to no permanent	The applicable and required safety	
			impact on the	standards will be strictly adhered to during	
			environment this will	all works and operations.	
			ensure effective	All machinery and equipment must be	
			rehabilitation and	maintained in good working order and	
			restoration.	fitted with approved and specified muffler	
				systems. Daily checks are to be	
				undertaken on all plant and equipment to	
				monitor the status of the equipment. If any	
				equipment is faulty, it is to be removed to	
				a designated area and repaired or	

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equipment storage, site		(e.g. Construction,		measures, blasting controls, avoidance,	
office access route etc)		commissioning,		relocation, alternative activities etc)	
		operational,			
		decommissioning,		E.g., Modify through alternative methods.	
		closure, post-closure)		Control through noise control through	
				management and monitoring though	
				rehabilitation	
				replaced as soon as reasonably possible	
				(within 24 hours if possible) of the	
				identification of the fault.	
				Compliance with local by-laws and	
				regulations regarding the noise, dust and	
				hours of operation is to be strictly adhered	
				to.	
				During the excavation of the sumps at the	
				directional drilling site, the fertile soil (dark	
				soil) must be removed to a depth of	
				500mm, after topsoil has been stripped.	
				The fertile soil (dark soil) must be restored	
				separately from the topsoil and overburden	
				material (material located deeper than	

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equipment storage, site		(e.g. Construction,		measures, blasting controls, avoidance,	
office access route etc)		commissioning,		relocation, alternative activities etc)	
		operational,			
		decommissioning,		E.g., Modify through alternative methods.	
		closure, post-closure)		Control through noise control through	
				management and monitoring though	
				rehabilitation	
				500mm). The remainder of the material	
				from the sump excavation must be placed	
				separately from the topsoil and fertile soil	
				(dark soil). All stockpiles must be stored	
				separately and protected from	
				environmental elements, such as wind and	
				rain. Measures to protect the stockpiled	
				material may include the installation of cut	
				off drains, seeding or covering the material	
				with tarp.	
				All sumps and earth excavations must be	
				monitored on a daily basis for safety and	
				erosion potential. The side walls must be	
				battered back to a 45-degree angle to	
				ensure no collapsing of the side walls. •	

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		operational,			
		decommissioning,		E.g., Modify through alternative methods.	
		closure, post-closure)		Control through noise control through	
				management and monitoring though	
				rehabilitation	
				Once the works are completed and the	
				sumps are no longer needed, the original	
				inert material from the sump area is to be	
				placed back in the sump, leaving ~300mm	
				for the fertile soil to be replaced in the	
				remaining hole.	
				After replacing the fertile soil (dark soil) the	
				whole footprint must be cleaned of all	
				waste and foreign material. Thereafter the	
				exposed footprint must be ripped to a	
				depth of ~300mm. Once ripped the topsoil	
				will then be placed back and trimmed.	

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office access route etc)		commissioning,		relocation, alternative activities etc)	
		operational,			
		decommissioning,		E.g., Modify through alternative methods.	
		closure, post-closure)		Control through noise control through	
				management and monitoring though	
				rehabilitation	
				Cooking will only be permitted in	
				designated areas during the directional	
				drilling activity.	
				All sites disturbed by construction activities	
				must be monitored for exotic or alien	
				invasive plant species and weeds.	
				Chemical or mechanical removal may be	
				used. If chemical methods are used the	
				method of use is to be undertaken in	
				accordance with manufacturer's	
				specification for the weeds and this	
				method and management is to be	
				approved by the SHE Manager.	

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		operational,			
		decommissioning,		E.g., Modify through alternative methods.	
		closure, post-closure)		Control through noise control through	
				management and monitoring though	
				rehabilitation	
				Any eradicated exotic/invasive plant or	
				weed vegetation must be removed from	
				site and disposed of at an approved waste	
				disposal facility or an alternative	
				eradication method approved by the	
				competent authority such as drying out	
				and then burning. Any method can be used	
				to dispose of the alien invasive plants as	
				long as it is within the law and the plants	
				have no possibility of propagating.	
Site Establishment and		Operational	All recommendations	Application of soil binders or dust	
Establishment of additional			and mitigation	suppressants in areas prone to dust	
associated infrastructure			measures will ensure	generation.	
such as temporary			little to no permanent		

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		operational,			
		decommissioning,		E.g., Modify through alternative methods.	
		closure, post-closure)		Control through noise control through	
				management and monitoring though	
				rehabilitation	
ablutions, fire breaks,			impact on the	Monitor dust emissions by ensuring all	
waste storage facilities,			environment this will	vehicles stick to the speed limit and dust	
water usage, access roads,			ensure effective	suppression registers are kept with details	
offices, vehicle turning			rehabilitation and	on frequency of dust suppression	
points workshops etc;			restoration.	activities.	
				• Retain vegetation cover as long as	
				possible to reduce the size of areas where	
				wind could generate dust.	
				Ensure that the use of machines do not	
				disrupt any services (i.e. electricity and	
				telephone lines).	
				When clearing fire breaks the breaks are	
				to be monitored for erosion and alien	
				vegetation establishment. If any erosion or	

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office access route etc)		commissioning,		relocation, alternative activities etc)	
		operational,			
		decommissioning,		E.g., Modify through alternative methods.	
		closure, post-closure)		Control through noise control through	
				management and monitoring though	
				rehabilitation	
				alien plats are evident the area is to be	
				remedied with immediate effect.	
				All machinery and equipment must be	
				maintained in good working order and	
				fitted with approved and specified muffler	
				systems.	
				Compliance with local by-laws and	
				regulations regarding the noise and hours	
				of operation.	
				All ablutions will be managed in terms of	
				the requirements of the Environmental	
				Management Waste Act (NEMWA).	
				Noise will be kept to a minimum. Noise	
				generation is to be restricted to normal	

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office access route etc)		commissioning,		relocation, alternative activities etc)	
		operational,			
		decommissioning,		E.g., Modify through alternative methods.	
		closure, post-closure)		Control through noise control through	
				management and monitoring though	
				rehabilitation	
				working hours as per the requirements of	
				the Department of Labour.	
				All sites disturbed by construction activities	
				must be monitored for exotic or alien	
				invasive plant species and weeds.	
				Chemical or mechanical removal may be	
				used. If chemical methods are used the	
				method of use is to be undertaken in	
				accordance with manufacturer's	
				specification for the weeds and this	
				method and management is to be	
				approved by the EP.	
				Any eradicated exotic/invasive plant or	
				weed vegetation must be removed from	

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		decommissioning,		E.g., Modify through alternative methods.	
		closure, post-closure)		Control through noise control through	
				management and monitoring though	
				rehabilitation	
				site and disposed of at an approved waste	
				disposal facility or an alternative	
				eradication method approved by the	
				competent authority.	
Storm Water Management		Dro construction	All of the mitigation	Wa natation also and a solid by limite at a	During construction
and Infrastructure within		Pre-construction, Operational and	All of the mitigation	Vegetation clearance should be limited to	During construction and operation phase
500m of a wetland		Operational and decommissioning and	measures are followed then the	the authorised footprint.	and operation phase
500m of a welland		rehabilitation	followed then the area will be in a	Dust is to be suppressed at all times.	
		Teriabilitation	position where the	Dust nuisance will be assessed visually	
				and complaints assessed and	
			environment has	addressed.	
			been protected and rehabilitation will be	All areas outside of the authorised	
				footprint should be regarded as no-go	
			smooth	areas.	

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		operational,			
		decommissioning,		E.g., Modify through alternative methods.	
		closure, post-closure)		Control through noise control through	
				management and monitoring though	
				rehabilitation	
				Vegetation clearing shall take place in a	
				phased manner in order to retain	
				vegetation cover for as long as possible.	
				This would reduce the size of areas	
				where dust can be generated and	
				sediment runoff may take place.	
				Site clearance will encourage the	
				introduction of alien invasive plant	
				species	
				All sites disturbed by construction	
				activities must be monitored for exotic or	
				invasive plant species and a Weed and	
				Alien Plants Control schedule or	

Name of Activity	SIZE AND	PHASE	COMPLIANCE WITH	MITIGATION MEASURES	TIME PERIOD FOR
(eg: prospecting- drilling	SCALE OF	In which impact is	STANDARDS	(modify, remedy, control, stop)	IMPLEMENTATION
site, camp site,	DISTURBANCE	anticipated		(e.g. noise control measures, storm water	
accommodation,				control, dust control, rehabilitation, design	
equipment storage, site		(e.g. Construction,		measures, blasting controls, avoidance,	
office access route etc)		commissioning,		relocation, alternative activities etc)	
		operational,			
		decommissioning,		E.g., Modify through alternative methods.	
		closure, post-closure)		Control through noise control through	
				management and monitoring though	
				rehabilitation	
				programme is to be developed prior to	
				disturbance of any area.	
				Chemical herbicides may not be used in	
				watercourses.	
				Mechanical removal may be used within	
				a watercourse and/or sensitive	
				ecological areas.	
				Any eradicated exotic/invasive plant or	
				weed vegetation must be removed from	
				site and disposed of at an approved	
				waste disposal facility or an alternative	
				eradication method approved by the	
				competent authority.	

Name of Activity	SIZE AND	PHASE	COMPLIANCE WITH	MITIGATION MEASURES	TIME PERIOD FOR
(eg: prospecting- drilling	SCALE OF	In which impact is	STANDARDS	(modify, remedy, control, stop)	IMPLEMENTATION
site, camp site,	DISTURBANCE	anticipated		(e.g. noise control measures, storm water	
accommodation,				control, dust control, rehabilitation, design	
equipment storage, site		(e.g. Construction,		measures, blasting controls, avoidance,	
office access route etc)		commissioning,		relocation, alternative activities etc)	
		operational,			
		decommissioning,		E.g., Modify through alternative methods.	
		closure, post-closure)		Control through noise control through	
				management and monitoring though	
				rehabilitation	
				If any burning of plants is needed it may	
				only be done under supervision and in an	
				area approved by the EP and the senior	
				SHE officer and in the presence of the	
				SHE officer.	
				In the process of stripping topsoil, care	
				must be taken to ensure that no topsoil is	
				contaminated with oil and grease, foreign	
				material or alien plants. The topsoil must	
				be stored in a manner to prevent any loss	
				of topsoil from the natural elements.	
				Topsoil is not to be double handled, it is	
				to be stripped, and stockpiled (outside of	
				the 1:100 year floodline and then further	

Name of Activity	SIZE AND	PHASE	COMPLIANCE WITH	MITIGATION MEASURES	TIME PERIOD FOR
(eg: prospecting- drilling	SCALE OF	In which impact is	STANDARDS	(modify, remedy, control, stop)	IMPLEMENTATION
site, camp site,	DISTURBANCE	anticipated		(e.g. noise control measures, storm water	
accommodation,				control, dust control, rehabilitation, design	
equipment storage, site		(e.g. Construction,		measures, blasting controls, avoidance,	
office access route etc)		commissioning,		relocation, alternative activities etc)	
		operational,			
		decommissioning,		E.g., Modify through alternative methods.	
		closure, post-closure)		Control through noise control through	
				management and monitoring though	
				rehabilitation	
				than 32 m from the floodline). Once the	
				area has been prepared for rehabilitation	
				the topsoil must be replaced to its original	
				position and hand seeded with the	
				indigenous grass seeds of the area if	
				cover does not establish in one growing	
				season. At this point it may be necessary	
				to install erosion protection such as	
				gabions, reno matrices etc.	
				Alien Plants monitoring and eradication	
				schedule/programme to be implemented.	
				No ablutions are to be located within 32 m	
				of a water course.	

Name of Activity	SIZE AND	PHASE	COMPLIANCE WITH	MITIGATION MEASURES	TIME PERIOD FOR
(eg: prospecting- drilling	SCALE OF	In which impact is	STANDARDS	(modify, remedy, control, stop)	IMPLEMENTATION
site, camp site,	DISTURBANCE	anticipated		(e.g. noise control measures, storm water	
accommodation,				control, dust control, rehabilitation, design	
equipment storage, site		(e.g. Construction,		measures, blasting controls, avoidance,	
office access route etc)		commissioning,		relocation, alternative activities etc)	
		operational,			
		decommissioning,		E.g., Modify through alternative methods.	
		closure, post-closure)		Control through noise control through	
				management and monitoring though	
				rehabilitation	
				All exposed areas are to be secured in a	
				manner as to prevent any sediment or	
				contaminants entering into the	
				watercourse, drainage lines or wetlands.	
Designating stockpile areas		Operational,	If all of the mitigation	Temporary stockpiling of excavated	During operational
for the topsoil, fertile soil		decommissioning and	measures are	material shall take place in demarcated	phase
and excavated material		rehabilitation	followed then the	areas.	
			area will be in a	Stockpiles shall be positioned and sloped	
			position where the	to create the least visual impact and to	
			environment has	reduce dust generation and damage from	
			been protected and	the natural elements.	
			rehabilitation will be	Topsoil and spoil stockpiles shall be	
			smooth	protected from erosion by wind and rain.	
				This can be achieved by providing suitable	

Name of Activity	SIZE AND	PHASE	COMPLIANCE WITH	MITIGATION MEASURES	TIME PERIOD FOR
(eg: prospecting- drilling	SCALE OF	In which impact is	STANDARDS	(modify, remedy, control, stop)	IMPLEMENTATION
site, camp site,	DISTURBANCE	anticipated		(e.g. noise control measures, storm water	
accommodation,				control, dust control, rehabilitation, design	
equipment storage, site		(e.g. Construction,		measures, blasting controls, avoidance,	
office access route etc)		commissioning,		relocation, alternative activities etc)	
		operational,			
		decommissioning,		E.g., Modify through alternative methods.	
		closure, post-closure)		Control through noise control through	
				management and monitoring though	
				rehabilitation	
				stormwater cut off drains and/or by	
				establishing suitable temporary	
				vegetation, if necessary.	
				Topsoil stockpiles must be monitored	
				regularly in accordance to the alien plants	
				monitoring and management schedule.	
				No inert material, topsoil or fertile soil	
				(dark soil) is to be stored within 32 m of a	
				drainage line.	
				Site clearance will encourage the	
				introduction of alien invasive plant species,	
				All sites disturbed by construction activities	
				must be monitored for exotic or alien	
				invasive plant species and weeds.	

Name of Activity	SIZE AND	PHASE	COMPLIANCE WITH	MITIGATION MEASURES	TIME PERIOD FOR
(eg: prospecting- drilling	SCALE OF	In which impact is	STANDARDS	(modify, remedy, control, stop)	IMPLEMENTATION
site, camp site,	DISTURBANCE	anticipated		(e.g. noise control measures, storm water	
accommodation,				control, dust control, rehabilitation, design	
equipment storage, site		(e.g. Construction,		measures, blasting controls, avoidance,	
office access route etc)		commissioning,		relocation, alternative activities etc)	
		operational,			
		decommissioning,		E.g., Modify through alternative methods.	
		closure, post-closure)		Control through noise control through	
				management and monitoring though	
				rehabilitation	
				Chemical (Herbicides) or mechanical	
				removal may be used. If chemical methods	
				are used the method of use is to be	
				undertaken in accordance with	
				manufacturer's specification for the weeds	
				and this method and management is to be	
				approved by the EP.	
				Any eradicated exotic/invasive plant or	
				weed vegetation must be removed from	
				site and disposed of at an approved waste	
				disposal facility or an alternative	
				eradication method approved by the	
				competent authority.	

Name of Activity	SIZE AND	PHASE	COMPLIANCE WITH	MITIGATION MEASURES	TIME PERIOD FOR
(eg: prospecting- drilling	SCALE OF	In which impact is	STANDARDS	(modify, remedy, control, stop)	IMPLEMENTATION
site, camp site,	DISTURBANCE	anticipated		(e.g. noise control measures, storm water	
accommodation,				control, dust control, rehabilitation, design	
equipment storage, site		(e.g. Construction,		measures, blasting controls, avoidance,	
office access route etc)		commissioning,		relocation, alternative activities etc)	
		operational,			
		decommissioning,		E.g., Modify through alternative methods.	
		closure, post-closure)		Control through noise control through	
				management and monitoring though	
				rehabilitation	
				All sites disturbed by construction activities	
				must be monitored for exotic or invasive	
				plant species and weeds.	
				All equipment used to undertake all these	
				activities are to be inspected daily to	
				prevent any accidental hydraulic spills.	
Loading and hauling of		Operation and	If all of the mitigation	Vehicle movement shall be limited to	During
excavated material		Decommissioning	measures are	defined tracks and areas.	decommissioning
			followed then the	Movement of construction vehicles shall	phase
			area will be in a	be limited to daylight hours.	
			position where the	Dangers associated with the movement of	
			environment has	large haulage vehicles shall be clearly	
			been protected and	indicated by safety signs.	

Name of Activity	SIZE AND	PHASE	COMPLIANCE WITH	MITIGATION MEASURES	TIME PERIOD FOR
(eg: prospecting- drilling	SCALE OF	In which impact is	STANDARDS	(modify, remedy, control, stop)	IMPLEMENTATION
site, camp site,	DISTURBANCE	anticipated		(e.g. noise control measures, storm water	
accommodation,				control, dust control, rehabilitation, design	
equipment storage, site		(e.g. Construction,		measures, blasting controls, avoidance,	
office access route etc)		commissioning,		relocation, alternative activities etc)	
		operational,			
		decommissioning,		E.g., Modify through alternative methods.	
		closure, post-closure)		Control through noise control through	
				management and monitoring though	
				rehabilitation	
			rehabilitation will be	Material from drilling sites shall be	
			smooth	appropriately secured to ensure safe	
				passage between destinations.	
				Compliance with local by-laws and	
				regulations regarding the noise and hours	
				of operation.	
				Avoid working outside normal working	
				hours (i.e. 07:00 to 17:00 weekdays and	
				7:00 to 13:00 on weekends) and during	
				weekends.	
				Working outside of normal working hours	
				is to be agreed with the landowner.	
				Scheduling drilling time is to be agreed	
				with the landowner and the landowner is to	

Name of Activity	SIZE AND	PHASE	COMPLIANCE WITH	MITIGATION MEASURES	TIME PERIOD FOR
(eg: prospecting- drilling	SCALE OF	In which impact is	STANDARDS	(modify, remedy, control, stop)	IMPLEMENTATION
site, camp site,	DISTURBANCE	anticipated		(e.g. noise control measures, storm water	
accommodation,				control, dust control, rehabilitation, design	
equipment storage, site		(e.g. Construction,		measures, blasting controls, avoidance,	
office access route etc)		commissioning,		relocation, alternative activities etc)	
		operational,			
		decommissioning,		E.g., Modify through alternative methods.	
		closure, post-closure)		Control through noise control through	
				management and monitoring though	
				rehabilitation	
				be notified at least 3 days prior to drilling	
				operations commencing.	
				All hauled material is to be secured on the	
				vehicle transporting the material and if soil	
				or inert material is transported the driver is	
				to secure the load from potential dust	
				generation, by covering the material.	
Decommissioning and		Decommissioning	If all of the mitigation	Compliance with local by-laws and	During
Rehabilitation		and Rehabilitation	measures are	regulations regarding the noise and hours	decommissioning
			followed then the	of operation.	phase
			area will be in a	Avoid working outside normal working	
			position where the	hours and during weekends.	
			environment has		
			been protected and		

Name of Activity	SIZE AND	PHASE	COMPLIANCE WITH	MITIGATION MEASURES	TIME PERIOD FOR
(eg: prospecting- drilling	SCALE OF	In which impact is	STANDARDS	(modify, remedy, control, stop)	IMPLEMENTATION
site, camp site,	DISTURBANCE	anticipated		(e.g. noise control measures, storm water	
accommodation,				control, dust control, rehabilitation, design	
equipment storage, site		(e.g. Construction,		measures, blasting controls, avoidance,	
office access route etc)		commissioning,		relocation, alternative activities etc)	
		operational,			
		decommissioning,		E.g., Modify through alternative methods.	
		closure, post-closure)		Control through noise control through	
				management and monitoring though	
				rehabilitation	
			rehabilitation will be	Application of soil binders or dust	
			smooth and effective	suppressants in areas prone to dust	
				generation.	
				Construction vehicles should comply with	
				speed limits.	
				• During rehabilitation, the topography	
				would be finished off to blend in with the	
				surrounding environment.	
				The area is to be cleared of all foreign	
				objects, materials and alien plants.	
				Once the area is shaped correctly the	
				compacted areas are to be lightly ripped to	
				300mm before topsoil is to be replaced.	

Name of Activity	SIZE AND	PHASE	COMPLIANCE WITH	MITIGATION MEASURES	TIME PERIOD FOR
(eg: prospecting- drilling	SCALE OF	In which impact is	STANDARDS	(modify, remedy, control, stop)	IMPLEMENTATION
site, camp site,	DISTURBANCE	anticipated		(e.g. noise control measures, storm water	
accommodation,				control, dust control, rehabilitation, design	
equipment storage, site		(e.g. Construction,		measures, blasting controls, avoidance,	
office access route etc)		commissioning,		relocation, alternative activities etc)	
		operational,			
		decommissioning,		E.g., Modify through alternative methods.	
		closure, post-closure)		Control through noise control through	
				management and monitoring though	
				rehabilitation	
				Areas that have not had topsoil striped are	
				to be monitored for alien plant growth and	
				vegetation recovery.	
				• If after a year the vegetation has not	
				recovered the area is to be hand seeded	
				with a Highveld indigenous grass mix (if	
				the site is located in grasslands).	

e) Impact Mitigation Outcomes

Name of Activity	POTENTIAL	ASPECTS	PROJECT	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump 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.)	IMPACT (including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED	PHASE In which impact is anticipated (e.g. Construction, commissioning, operational, decommissioning, closure, post-closure)	(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED (Impact avoided, noise level, dust level, rehabilitation standards, end use objectives etc)
Site preparation	Deterioration of Air	Air Quality	Planning Phase	Dust suppression with water	Compliance to GNR 827 of 01
	Quality in the study			will occur during the	November 2013, regulations
	area			construction phase.	dealing national dust control for
					non-residential areas whereby the
					dust fallout rate (expressed in
					mg/m2/day over 30 days average
					exposure) must not exceed
					600 <d<1200. day="" for="" m2="" mg="" td="" two<=""></d<1200.>
					events within a year but not
					sequential months
	Contamination of	Water quality	Planning Phase	Clean spillages immediately	Compliance to Section 19 and 20
	surface water				of NWA
	Soil erosion	Soil	Planning phase	Erosion control measures	Compliance to section 28 and 30
				such as hard surfaces and	of NEMA

Name of Activity	POTENTIAL	ASPECTS	PROJECT	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump 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.)	IMPACT (including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED	PHASE In which impact is anticipated (e.g. Construction, commissioning, operational, decommissioning, closure, post-closure)	(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED (Impact avoided, noise level, dust level, rehabilitation standards, end use objectives etc)
				berms will be designed as	
				part of the mine	
				infrastructure to prevent soil	
				erosion.	
	Accidental	Water quality	Planning phase	Clean accidental	Compliance to Section 19 and 20
	hydrocarbon			hydrocarbon spillages	of NWA
	spillages			immediately	Compliance to the Hazardous
					Substances Act and NEMWA.
					Occupational Health and Safety
					Act, Act 85 of 1993 and applicable
					regulations
					Mine Health and Safety Act, Act
					29 of 1996 and applicable
					regulations
	Accidental	Soil quality	Planning phase	Clean accidental	Compliance to Section 19 and 20
	hydrocarbon			hydrocarbon spillages	of NWA
	spillages			immediately	Compliance to the Hazardous
					Substances Act and NEMWA.

Name of Activity	POTENTIAL	ASPECTS	PROJECT	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	IMPACT (including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED	PHASE In which impact is anticipated (e.g. Construction, commissioning, operational, decommissioning, closure, post-closure)	(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED (Impact avoided, noise level, dust level, rehabilitation standards, end use objectives etc)
					Occupational Health and Safety Act, Act 85 of 1993 and applicable regulations Mine Health and Safety Act, Act 29 of 1996 and applicable regulations
Drill rig and other equipment delivery	Dust generation	Air quality	Construction	Reduce speed limit to 40km/h to reduce dust generation.	Compliance to GNR 827 of 01 November 2013, regulations dealing national dust control for non-residential areas whereby the dust fallout rate (expressed in mg/m2/day over 30 days average exposure) must not exceed 600 <d<1200 a="" but="" day="" events="" for="" mg="" months.<="" m²="" not="" sequential="" td="" two="" within="" year=""></d<1200>

Name of Activity	POTENTIAL	ASPECTS	PROJECT	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	IMPACT (including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED	PHASE In which impact is anticipated (e.g. Construction, commissioning, operational, decommissioning, closure, post-closure)	(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED (Impact avoided, noise level, dust level, rehabilitation standards, end use objectives etc)
	Accidental	Soil Quality	Planning phase	Clean Accidental spillages	Compliance to section 28 and 30
	hydrocarbon			immediately	of NEMA and relevant regulations
	spillages.				
	Increase Traffic in	Traffic	Planning Phase	Construction equipment and	Compliance with National Road
	the study area			vehicle must be checked	Traffic Act, Act 29 of 1989
				and maintained before being	
				delivered on site.	
				The necessary road traffic	
				permits for transporting	
				abnormal equipment should	
				be obtained from the	
				relevant authorities prior to	
				any abnormal trucks leaving	
				their site to deliver material	
				or equipment at the study	
				area.	

Name of Activity	POTENTIAL	ASPECTS	PROJECT	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	IMPACT (including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED	PHASE In which impact is anticipated (e.g. Construction, commissioning, operational, decommissioning, closure, post-closure)	(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED (Impact avoided, noise level, dust level, rehabilitation standards, end use objectives etc)
Storage of Material and equipment on site	Accidental hydrocarbon spillages.	Soil Quality	Planning phase	Clean Accidental spillages immediately	Compliance to section 28 and 30 of NEMA and relevant regulations
	Accidental hydrocarbon spillages.	Water Quality	Planning phase	Clean Accidental spillages immediately	Compliance to section 28 and 30 of NEMA and relevant regulations. Compliance to Section 19 and 20 of NWA
Access of study area	Soil compaction	Soil	Planning Phase	Rip and Loss soils compacted soil during rehabilitation.	Compliance to section 28 and 30 of NEMA
Hydrocarbon spills from vehicle and other hazardous substances	Water contamination	water quality	Construction phase	The entire prospecting area infrastructure is outside of the 1:100 year flood line of adjacent steams. Spillages should be cleaned immediately to avoid contamination of surface water.	Compliance to section 28 and 30 of NEMA and Section 19 and 20 of NWA. Compliance to the Hazardous Substances Act and NEMWA.

Name of Activity	POTENTIAL	ASPECTS	PROJECT	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump 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.)	IMPACT (including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED	PHASE In which impact is anticipated (e.g. Construction, commissioning, operational, decommissioning, closure, post-closure)	(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED (Impact avoided, noise level, dust level, rehabilitation standards, end use objectives etc)
	Soil contamination	Soil Quality	Construction phase	Clean hydrocarbon spill using hydrocarbon spillage measures	Compliance to the Hazardous Substances Act, NEMA, NWA, MPRDA and NEMWA.
Accidental fires	Air pollution	Air quality	Construction phase	Prevent making open fire on site, firefighting equipment to be erected on site to prevent any fire occurring during the construction and operation phase.	National Veld and Forest Fire Act, Act 101 of 1998
Visual Impacts result from movement of vehicle in the study area	Soil and overburden stockpiles will be visible from adjacent farms	Visual aspect	Construction	No Mitigation	Compliance with relevant Visual standards and regulations
Drilling of Exploration boreholes	Loss of Geological Formation in the study area.	Geology	Operation	No mitigation	

Name of Activity	POTENTIAL	ASPECTS	PROJECT	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump 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.)	IMPACT (including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED	PHASE In which impact is anticipated (e.g. Construction, commissioning, operational, decommissioning, closure, post-closure)	(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED (Impact avoided, noise level, dust level, rehabilitation standards, end use objectives etc)
	Increase in Ambient Noise due to drilling activities	Noise Quality	Operation phase	Monitor Noise generation	Compliance with Noise standards and relevant regulations.
	Increase in dust generation	Air quality	Operation phase	Dust suppression with water will occur during the operation phase.	Compliance to GNR 827 of 01 November 2013, regulations dealing national dust control for non-residential areas whereby the dust fallout rate (expressed in mg/m2/day over 30 days average exposure) must not exceed 600 <d<1200. a="" but="" day="" events="" for="" m2="" mg="" months<="" not="" sequential="" td="" two="" within="" year=""></d<1200.>
Decommissioning	Increase in alien species population	Flora	Decommissioning phase	The control of declared weed and invaders with the	National Environmental Management Biodiversity Act 10 of 2004

Name of Activity	POTENTIAL	ASPECTS	PROJECT	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g.: Mining- excavations, blasting, stockpiles, discard dump 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.)	IMPACT (including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED	PHASE In which impact is anticipated (e.g. Construction, commissioning, operational, decommissioning, closure, post-closure)	(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED (Impact avoided, noise level, dust level, rehabilitation standards, end use objectives etc)
				infrastructure area should be	
				maintained	
	Dust generated by	Air quality	Decommissioning	Apply dust suppression	Compliance to GNR 827 of 01
	vehicles during		phase	measures to roads	November 2013, regulations
	rehabilitation				dealing national dust control for non-residential areas whereby the dust fallout rate (expressed in mg/m2/day over 30 days average exposure) must not exceed 600 <d<1200. a="" but="" day="" events="" for="" m2="" mg="" months<="" not="" sequential="" td="" two="" within="" year=""></d<1200.>
Rehabilitation of affected	Noise during	Noise	Rehabilitation .	Rehabilitation activities must	Compliance with relevant noise
area	rehabilitation		phase	Conduct work during	standards and regulations
	activities			daylight to limit generation of	
				noise at night.	

Name of Activity	POTENTIAL	ASPECTS	PROJECT	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	IMPACT (including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED	PHASE In which impact is anticipated (e.g. Construction, commissioning, operational, decommissioning, closure, post-closure)	(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED (Impact avoided, noise level, dust level, rehabilitation standards, end use objectives etc)
	Increase of dust	Air quality	Rehabilitation phase	Dust suppression measures should be applied to control dust generation.	Compliance to GNR 827 of 01 November 2013, regulations dealing national dust control for non-residential areas whereby the dust fallout rate (expressed in mg/m2/day over 30 days average exposure) must not exceed 600 <d<1200. a="" day="" events="" for="" m2="" mg="" td="" two="" within="" year<=""></d<1200.>
	Alien species	Flora	Rehabilitation phase	The control of declared weeds and invaders within the areas associated with the infrastructure area should be maintained	Compliance with National Environmental Management Biodiversity Act, Act 10 of 2004 and MPRDA

f) Impact Management Actions

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
Site Establishment and clearing of vegetation (which includes site preparation and preparation and upgrade of access roads)	Loss of natural vegetation and faunal habitat	Site clearance and soil stripping	Pre-construction Construction	Remedy through Rehabilitation and Control through management and monitoring. • All areas outside of the borehole drilling sites should be regarded as no-go areas. • All animals are not to be disturbed, and no gates are to be left open at any times. • Any vehicle travelling in game camps or in camps with animals are to reduce their speed to 20km, no arm is to come to any animals.	Rehabilitation standards

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
power lines, conveyors, etc.)				No items may be harvested	
				from the farms where work is	
				being undertaken by any	
				member of Applicant, a record	
				is to be kept that all staff are	
				being trained to refrain from	
				harvesting any crops or animals	
				from the farm where works is	
				been undertaken.	
				Remedy through Rehabilitation and	
				Control through management and	
	Minus Lineau auto			monitoring.	A and a diameter of the color
	Visual impacts			All areas outside of the borehole	Aesthetically pleasing
				footprints should be regarded	
				as no-go areas.	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				Topsoil, fertile soil (dark soil) and inert material are to be stored no higher than 2m to reduce the visual impact of the site.	
	Soil erosion			Remedy through Rehabilitation and Control through management and monitoring. Topsoil must be removed immediately after clearing vegetation cover, to prevent water and wind erosion from reducing the volume of soil. No topsoil or fertile soil (dark soil) may be stored within 32 m	No Erosion or degradation of the Landscape

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				of a drainage line, watercourse or wetland • Where applicable, construct berms in order to prevent rill erosion and donga formation • All cleared areas and sumps are to be monitored for erosion daily, any erosion forming is to be remediated with immediate effect.	
	Introduction of alien invasive plant species			Remedy through Rehabilitation and Control through management and monitoring. • All sites disturbed by construction activities must be	Area free of Alien Invasive plant species

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				monitored for exotic or invasive plant species and weeds. • Site clearance will encourage the introduction of alien invasive plant species, Applicant should train the labourers on the removal and disposal of alien vegetation (Mechanical and Chemical). • Chemical or mechanical removal may be used. If chemical methods are used the method of use is to be undertaken in accordance with manufacturer's specification for	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				the weeds and this method and management is to be approved by the EP. • Any eradicated exotic/invasive plant or weed vegetation must be removed from site and disposed of at an approved waste disposal facility or an alternative eradication method approved by the competent authority.	
	Loss of Heritage Sites			Control through monitoring and management and through avoidance.	All heritage artefacts are preserved

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g.: Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				 In the initial activity of clearing if any heritage artefacts or graves are uncovered, the site is to be secured and demarcated with danger tape and it is to be communicated that that area is a no-go area until an archaeologist has investigated the matter and SHRAH has given further instruction. Once the permit has been obtained, the archaeologist is then to monitor and manage the process of destruction of the artefact or translocation. 	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump or dams, loading, hauling and transport, water supply dams and boreholes, accommodation, offices ablution, stores, workshops, processing plant, storm water control berms, roads, pipelines,	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
power lines, conveyors, etc.)				Once all items have been destroyed or	
				Once all items have been destroyed or moved the establishment activities can continue.	
	Dust Generation			Remedy through Rehabilitation and Control through management and monitoring. Dust is to be kept to a minimum at all times, by restricting speed of vehicles and undertaking	Area is free from dust
				dust suppression. The area is not to exceed the ambient air quality standards for rural areas.	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
	Loss of Topsoil			Remedy through Rehabilitation and Control through management and monitoring. • All topsoil (stripping of ~150 mm over grazing and agricultural land) should be stored in an area where the environmental element do not weather or erode the soils away. A number of methods can be used to protect the topsoil, such as installing storm water cut off drains, seeding the stockpiles with Highveld indigenous grass	Rehabilitation objectives will be achieved

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
power miles, conveyers, etc.)				mix, covering the soil with a	
				tarp or a cover of kinds or	
				bunding the soil in. The	
				objective is not to prescribe a	
				method to protect the soil but	
				to ensure that Applicant	
				takes all measures to protect	
				the soil and ensure no topsoil	
				is lost.	
				The soil is to be protected	
				and kept free of any	
				contaminants.	
				No drip trays, or other	
				equipment is to be stored or	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				placed on the topsoil stockpiles. No contaminants such as hydrocarbons, concrete, inert material, fertile soil (dark organic soil) etc may contaminate the topsoil. Daily checks should be conducted to ensure the topsoil is being kept in a good constituency.	
	Degradation to any water courses or wetlands			Avoidance Control through management and monitoring.	Watercourses or wetlands will not be affected

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				 This is only possible in clearing or and upgrading roads as no watercourse will be impact on in the site layout as no activity will be undertaken within 100m of a watercourse, wetland or drainage line. However, when working on roads through drainage lines, wetlands or watercourse Applicant is to ensure that no contaminants enter into the systems and that no sediment is allowed to be deposited into the systems. 	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				During flowing water conditions, the water is to be quality tested (according to the DWS general limits) up and down stream of the works on a weekly basis during construction of the road over water courses or drainage lines, this will define the impact the activity is having on the watercourse.	
Construction of structures and/or facilities (storage, berms, fence,	Noise pollution	General construction activities	Construction	Control through management, monitoring, minimizing and avoidance.	Noise will be undetectable or kept to a minimum

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
ablution facilities etc.)				 All machinery and equipment must be maintained in good working order and fitted with approved and specified muffler systems. Compliance with local by-laws and regulations regarding the noise and hours of operation 	
	Soil erosion			Remedy through Rehabilitation and control through management and monitoring Erosion protection measures to be installed and daily checks to be undertaken on erosion potential. Any	No Erosion of Soil

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				erosion seen is to be mitigated immediately. • Drainage channels must be provided to prevent scour, so that runoff will be collected and conducted past the footprint, all areas are to be free flowing of water and no pooling of water is allowed.	
	Dust generation Socio Economic impact on the landowner Traffic congestion Introduction of weeds and alien invasive plants			Remedy through Rehabilitation and Control through management and monitoring • Application of soil binders or dust suppressants in areas	Dust levels

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g.: Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				prone to dust generation where Applicant are utilising the roads. • Speed is to be restricted to ensure nuisance dust does not become an issue	
Construction of access roads	Noise pollution	General construction activities	Construction	Control through management and Monitoring • All machinery and equipment must be maintained in good working order, and fitted with approved and specified muffler systems.	Low Noise levels

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump or dams, loading, hauling and transport, water supply dams and boreholes, accommodation, offices ablution, stores, workshops, processing plant, storm water	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
control berms, roads, pipelines, power lines, conveyors, etc.)					
				Compliance with local by-laws and regulations regarding the noise and hours of operation.	
	Soil erosion			Remedy through Rehabilitation and Control through management and monitoring • Erosion protection measures being in place. • Drainage channels must be provided to prevent scouring, to ensure runoff will be collected and directed past the excavation or stockpile area.	Soil exposure

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				Erosion is to be monitored after every rainfall event. Any erosion is to be corrected immediately.	
	Dust generation			Remedy through Rehabilitation and Control through management and monitoring Application of soil binders or dust suppressants in areas prone to dust generation in all areas Applicant have access. • Limit speed on all access roads to ensure nuisance dust does not become an issue. • Retain vegetation cover as long as possible to reduce the size of	Dust levels

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				areas where wind could generate dust.	
	Traffic congestion			Ensure that the use of machines do not disrupt any services (i.e., electricity and telephone lines). The applicable and required safety standards will be strictly adhered to during blasting. (if blasting is to occur) Affected and neighbouring landowners/occupiers will be	Traffic levels

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				informed timeously of planned	
				blasting events.	
Dimond Drilling, Percussion drilling and directional drilling and	Dust generation	Operational activities	Operation	Control through management and monitoring Application of soil binders or dust suppressants in areas prone to dust generation. Construction vehicles should comply with speed limits outlined by Applicant Projects	Dust levels
installation of Sumps	Noise pollution			Control through management and monitoring • Compliance with local by-laws and regulations regarding the noise and hours of operation.	Noise levels

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump or dams, loading, hauling and transport, water supply dams and boreholes, accommodation, offices ablution, stores, workshops, processing plant, storm water control berms, roads, pipelines,	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
power lines, conveyors, etc.)				 Avoid working outside normal working hours (i.e. 08:00 to 17:00) and during weekends. All machinery to be fitted with appropriate mufflers to reduce noise. 	
	Ecological Impact			Remedy through Rehabilitation and Control through management and monitoring • Retain all vegetation cover over the vertical drilling sites, the grass is to be mowed as part of site establishment.	Rehabilitation standards

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
	Loss of heritage /			 Retain vegetation cover as long as possible at the directional drilling site. Remove or eradicate all alien invasive vegetation growing on stockpiles or in any area of the drilling site footprint. Rehabilitate disturbed areas, rehabilitation undertaken with the rehabilitation measures recommended for each drilling site. Control through monitoring and management and through avoidance. 	Impacts avoid destruction of heritage
	Archaeological features			management and through avoidance.	features

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				 No heritage features must be destroyed or removed without a permit in terms of NHRA. Should any heritage features or remains be uncovered, work is to stop, the area is to be demarcated and a qualified Archaeologist is to be contacted and contracted to evaluate the site and apply for the appropriate permit if needed. Once the permit has been obtained from SAHRA the archaeologist is then to supervise the removal or 	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				destruction of the item. Once it has been moved or destroyed works can continue	
	Waste generation			 Control through monitoring and management and through avoidance. Bins (sufficient number and capacity) to store general and hazardous produced on a daily basis shall be provided at each drilling site. The bins are to be animal proof, sealed bins that cannot leak leachate material and 	Waste management

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				waterproof that rain water cannot enter into them. Bins shall be emptied on a weekly basis or if there is a nauseous smell coming from them or vectors are breading within them. An integrated waste management approach shall be used, based on the principles of waste minimisation, reduction, re-use and recycling of materials. No waste material or litter shall be burnt or buried on site.	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g.: Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
	Disruption of services			Control through monitoring and management and through avoidance. Ensure that material extraction and use of machinery do not disrupt any services (i.e. electricity and telephone lines) in close proximity to the drilling sites Repair any damaged infrastructure as soon as possible	Protection of infrastructure
	Soil erosion			Remedy through Rehabilitation and Control through management and monitoring.	Soil exposure

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g.: Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				 Erosion protection measures are to be undertaken. Daily erosion protection monitoring is to take place at each drilling site prior to commencement of the daily works. If any erosion is identified it is to be remediated prior to the commencement of works. Daily erosion checks are to be undertaken on the sump area. If cracks or erosion is identified the side walls are to be battered 	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
	Surface and ground water contamination			back to ensure a safe environment for all. Drainage channels must be kept free draining at all times. No pooling of water will be allowed, drainage diversions must be provided to prevent scour of the site, and this is also to direct water away from the impacted area to prevent erosion. Control through monitoring and management and through avoidance	Water quality.

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				 Clean drinking water is to be provided for all staff on site at all times. Store and contain all material on the site appropriately to prevent contamination of surface- and groundwater. Properly maintain all machinery and equipment so that leaks do not appear and ensure that during servicing all oil, grease etc. is disposed of correctly to prevent contamination of surface- and groundwater. 	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g.: Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
Site Establishment and Establishment of additional associated infrastructure such as temporary ablutions, fire breaks, waste storage facilities,	Dust generation	Operational activities	Operation	Remedy through Rehabilitation and Control through management and monitoring. • Application of soil binders or dust suppressants in areas prone to dust generation. • Construction vehicles should comply with speed limits outlined by Applicant.	Dust generation
water usage, access roads, offices, vehicle turning points workshops etc;	Noise pollution			Control through management and monitoring • Compliance with local by-laws and regulations regarding the noise and hours of operation.	Noise pollution

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				 Avoid working outside normal working hours (i.e. 06:00 to 18:00 weekdays and 6;00 to 12:00 on Saturday). All machinery to be fitted with appropriate mufflers to reduce noise. 	
	Soil erosion			Remedy through Rehabilitation and Control through management and monitoring. • Erosion protection measures	Soil exposure
				are to be undertaken, daily erosion protection monitoring is to take place at each drilling site	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump or dams, loading, hauling and transport, water supply dams and boreholes, accommodation, offices ablution, stores, workshops, processing plant, storm water	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
control berms, roads, pipelines, power lines, conveyors, etc.)					
				prior to commencement of the	
				daily works, if any erosion is	
				identified it is to be remediated	
				prior to the commencement of	
				works.	
				Drainage channels must be	
				kept free draining at all times.	
				No pooling of water will be	
				allowed, drainage diversions	
				must be provided to prevent	
				scour of the site, and this is also	
				to direct water away from the	
				impacted area to prevent erosion.	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
	Ecological Impact			Remedy through Rehabilitation and Control through management and monitoring Retain all vegetation cover over the vertical drilling sites. The grass is to be mowed as part of site maintenance. Fire breaks are to be made in collaboration with the land owner, the land owner is to be informed of the making of fire breaks and the method used to make them.	Ecological Impact

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				 Fire deterrents are to be on standby at all times during the project (they are to be checked for their expiry date prior to them being installed on site). Retain vegetation cover as long as possible at all sites Remove or eradicate all alien invasive vegetation growing on stockpiles or in any on the site footprint. Rehabilitate disturbed areas, rehabilitation undertaken 	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g.: Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				with the rehabilitation measures recommended area. • Fire extinguishers and equipment will be kept on site and serviced regularly at all times for emergencies.	
	Loss of heritage / Archaeological features			Control through monitoring and management and through avoidance No heritage features must be destroyed or removed	Loss of heritage / Archaeological features

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump or dams, loading, hauling and transport, water supply dams and boreholes, accommodation, offices ablution, stores, workshops, processing plant, storm water control berms, roads, pipelines,	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
power lines, conveyors, etc.)				without a permit in terms of NHRA. • Should any heritage features or remains be uncovered, works is to stop, the area is to be demarcated and a qualified Archaeologist is to be contacted and contracted to evaluate the site and apply for the appropriate permit if needed. Once the permit has been obtained from SAHRA the archaeologist is then to supervise the removal or	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				destruction of the item. Once it has been moved or destroyed works can continue.	
	Waste generation			Control through monitoring and management and through avoidance • Bins (sufficient number and capacity) to store general and hazardous waste produced on a daily basis shall be provided at each drilling site.	Waste generation

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				 The bins are to be animal proof; sealed bins that cannot leak leachate material; and waterproof that rain water cannot enter into them. Bins shall be emptied on a weekly basis or if there is a nauseous smell coming from them or vectors are breading within them. An integrated waste management approach shall be used, based on the 	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				principles of waste minimisation, reduction, reuse and recycling of materials. No waste material or litter shall be burnt or buried on site. All solid waste shall be disposed of offsite at an approved municipal landfill site. No wastewater shall be disposed of directly into watercourses unless the	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				water quality meets the DWS general discharge limits. • All hazardous waste is to be stored in a hazardous waste container (sealed, leak proof, water proof container) clearly labelled. • The hazardous waste is to be collected and transported to a registered hazardous waste facility. All waste manifestos are to be kept on site and up to date. Weekly	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				checks are to be done to see if all registers are up to date. • All ablutions are to be serviced weekly by a registered service provided, no contamination of sewage will be allowed on site. • The Service provider for ablutions is to ensure that when servicing the toilets, it is done in a manner as to prevent any spills from occurring.	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
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power lines, conveyors, etc.)				All servicing of plant and	
				equipment is to be	
				undertaken off site, in the	
				event of an emergency	
				service on site all	
				precautions are to be taken	
				to avoid any spills or harm to	
				the environment.	
				In the case where an	
				emergency service is	
				required for plant or	
				·	
				equipment on site, the soil is	
				to be protected from any	
				potential spills prior to the	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				emergency service commences. • Hydrocarbon spill kits are to be located at every drilling site and kept stocked. A register of the spill kits content is to be kept inside of the kit. Once an item is used the item is to be re-placed immediately therefore extra items used to clean up a spill are to be kept on standby at all times.	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
	Visual impacts			Control through monitoring and management and remedy through rehabilitation. • Retain vegetation cover as long as possible to reduce the size of exposed areas. • Rehabilitate disturbed areas must be in line with rehabilitation measures recommended for each area.	Aesthetically pleasing
Storm Water Infrastructure	Waste generation	Operational activities	Operation	Control through monitoring and management and through avoidance	Avoid pollution

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				 Bins (sufficient number and capacity) to store general and hazardous waste produced on a daily basis shall be provided at each drilling site. The bins are to be animal proof; sealed bins that cannot leak leachate material; and waterproof that rain water cannot enter into them. 	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc)	ACHIEVED
e.g: Mining- excavations, blasting, stockpiles, discard dump 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.)	contamination, groundwater contamination, air etc)			E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	
				Bins shall be emptied on a weekly basis or if there is a	
				nauseous smell coming from them or vectors are breading within them.	
				An integrated waste management approach shall be used, based on the	
				principles of waste minimisation, reduction, reuse and recycling of materials.	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				 No waste material or litter shall be burnt or buried on site. All solid waste shall be disposed of offsite at an approved municipal landfill site. No wastewater shall be disposed of directly into watercourses unless the water quality meets the DWS general discharge limits. All hazardous waste is to be stored in a hazardous waste 	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump or dams, loading, hauling and transport, water supply dams and boreholes, accommodation, offices ablution, stores, workshops, processing plant, storm water control berms, roads, pipelines,	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
power lines, conveyors, etc.)				container (sealed, leak proof, water proof container) clearly labelled. • The hazardous waste is to be collected and transported to a registered hazardous waste facility. All waste manifestos are to be kept on site and up to date. Weekly checks are to be done to see if all registers are up to date. • All ablutions are to be serviced weekly by a registered service provided,	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				no contamination of sewage will be allowed on site. The Service provider for ablutions is to ensure that when servicing the toilets, it is done in a manner as to prevent any spills from occurring. All servicing of plant and equipment is to be undertaken off site, in the event of an emergency service on site all precautions are to be taken	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
power lines, conveyors, etc.)				to avoid any spills or harm to	
				the environment.	
				• In the case where an	
				emergency service is	
				required for plant or	
				equipment on site, the soil is	
				to be protected from any	
				potential spills prior to the	
				emergency service	
				commences.	
				Hydrocarbon spill kits are to be	
				located at every drilling site and kept	
				stocked. A register of the spill kits	
				content is to be kept inside of the kit.	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump or dams, loading, hauling and transport, water supply dams and boreholes, accommodation, offices ablution, stores, workshops, processing plant, storm water control berms, roads, pipelines,	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
power lines, conveyors, etc.)				Once an item is used the item is to be re-placed immediately therefore extra items used to clean up a spill are to be kept on standby at all times.	
	Within 500m of a wetland and crossing over watercourse on existing tracks and roads			Control through monitoring and management and through avoidance This is only possible in clearing or upgrading roads as no watercourse will be impact on in the site layout as no activity will be undertaken	Preservation of watercourse

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g.: Mining- excavations, blasting, stockpiles, discard dump or dams, loading, hauling and transport, water supply dams and boreholes, accommodation, offices ablution, stores, workshops, processing plant, storm water control berms, roads, pipelines,	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
power lines, conveyors, etc.)				within 100 m of a watercourse, wetland or drainage line. • However, when working on roads through drainage lines, wetlands or watercourse Applicant is to ensure that no contaminants enter into the systems and that no hydrocarbons, foreign material or sediment is allowed to be deposited into the systems. • If we have a flow of water,	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				(according to the DWS general limits) up and down stream of the works on a weekly basis during construction of the road, this will define the impact the activity is having on the watercourse. Control through monitoring and	
	Soil erosion			management and through avoidance and remedy through Rehabilitation	Soil exposure

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				 Erosion protection measures are to be undertaken, daily erosion protection monitoring is to take place at all site prior to commencement of the daily works, if any erosion is identified it is to be remediated prior to the commencement of works. Drainage channels must be kept free draining at all times. No pooling of water will be allowed, drainage diversions must be provided to prevent 	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				scour of the site, and this is also to direct water away from the impacted area to prevent erosion.	
Designating stockpile areas for the excavated material and for topsoil	Public safety	Operational activities	Operation	 Control through monitoring and management. Vehicle movement shall be limited to defined tracks and no driving on stockpiles will be permitted. Movement of construction vehicles shall be limited to daylight hours. 	Rehabilitation standards

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				 Dangers associated with the movement of large vehicles shall be clearly sign-posted and haul vehicles shall comply with speed limits. All are to be kept closed and locked at all times and no driver may stop and harvest crops or animals from the farms, the farm areas are considered as no go areas. 	
	Soil erosion			Control through monitoring and management and through	Soil exposure

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump or dams, loading, hauling and transport, water supply dams and boreholes, accommodation, offices ablution, stores, workshops, processing plant, storm water control berms, roads, pipelines,	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
power lines, conveyors, etc.)				avoidance and remedy through	
				rehabilitation	
				Erosion protection measures are to be undertaken, daily erosion protection monitoring is to take place at each drilling site prior to commencement of the daily works, if any erosion is identified it is to be remediated prior to the commencement of works.	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
power lines, conveyors, etc.)				 Drainage channels must be kept free draining at all times. No pooling of water will be allowed, drainage diversions must be provided to prevent scour of the site, this is also to direct water away from the impacted area to prevent erosion. 	
	Noise pollution			Control through monitoring and management and through avoidance	Safety

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				 Compliance with local bylaws and regulations regarding the noise and hours of operation. Avoid working outside normal working hours (i.e. 07:00 to 17:00 weekdays and between 7:00 and 13:00 on weekends). All works outside, or normal working hours is to be agreed and communicated with the landowner. 	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump or dams, loading, hauling and transport, water supply dams and boreholes, accommodation, offices ablution, stores, workshops, processing plant, storm water	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
control berms, roads, pipelines, power lines, conveyors, etc.)				The landowner and/or land	
				occupiers are to be notified at least 3 days prior to any	
				drilling activity commences.	
				Control through monitoring and management and through	
				avoidance and remedy through	
	Dust pollution			Rehabilitation.	Air Quality
				The area is to be wetted or	
				covered to ensure that the	
				material does not produce high levels of dust.	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g. Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
Decommissioning and Rehabilitation	Noise Pollution	Decommissioning	Decommissioning and Rehabilitation	Control through monitoring and management and through avoidance Compliance with local bylaws and regulations regarding the noise and hours of operation. Avoid working outside normal working hours (i.e. 08:00 to 17:00) and during weekends.	Noise levels

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				 Application of soil binders or dust suppressants in areas prone to dust generation. Construction vehicles should comply with speed limits. 	
	Ecological integrity and waste management			Control through monitoring and management and through avoidance and remedy through Rehabilitation. • During rehabilitation, the topography would be finished off to blend in with	Rehabilitation standards

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g.: Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
portor mitos, conveyors, etc.)				the surrounding environment. • The area is to be cleared of all foreign objects, materials, and alien plants • Once the area is shaped correctly the compacted areas are to be ripped at 300mm and topsoil is to be replaced. • Areas that have not had topsoil striped are to be monitored for alien plant growth and vegetation	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g: Mining- excavations, blasting, stockpiles, discard dump or dams, loading, hauling and transport, water supply dams and boreholes, accommodation, offices ablution, stores, workshops, processing plant, storm water control berms, roads, pipelines,	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
power lines, conveyors, etc.)				recovery. If after a year the vegetation has not recovered the area is to be hand seeded with a Highveld indigenous grass mix (if the site is located in grasslands). • The area is then to be seeded with to the indigenous grasses of the area (Highveld grass mix). Control through monitoring and management and through avoidance	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g.: Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				 All the waste from demolition must collected from site for disposal. Compliance with local bylaws and regulations regarding the noise and hours of operation. Application of soil binders or dust suppressants in areas prone to dust generation. Material loads must be properly covered during transportation. Speed limits for vehicles on unpaved 	

Name of Activity	POTENTIAL IMPACT	ASPECTS	PHASE	MITIGATION TYPE	STANDARD TO BE
(E.g.: prospecting- drilling site, camp site, accommodation, equipment storage, site office access route etc) e.g.: Mining- excavations, blasting, stockpiles, discard dump 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.)	(including the potential impacts of cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air etc)	AFFECTED		(modify, remedy, control, stop) (e.g. noise control measures, storm water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activities etc) E.g. Modify through alternative methods. Control through noise control through management and monitoring though rehabilitation	ACHIEVED
				roads must be enforced and haul distances minimised as far as possible. • Rehabilitation of drilling sites are to be undertaken in a phased manner in line with the mining and rehabilitation plans and recommended rehabilitation measures • Drilling sites are to be rehabilitated in line with closure objectives and in consultation with landowners.	

i) Financial Provision

Financial provision will be attached as Appendix 5 of this report

- 1) Determination of the amount of Financial Provision
- a) Determine the closure objective and the extent to which they have been aligned to the baseline environment described under the regulation.

Intended closure objectives:

The main closure objectives associated with this project is to:

- Ensure that the shareholder value is preserved.
- Ensure that stakeholders' needs, concerns and aspirations are taken into account when considering closure.
- Comply with relevant or applicable legislative requirements;
- Ensure the health, safety and welfare of all humans and animals are safeguarded from hazards resulting from drilling related activities such as this development.
- Limit or mitigate adverse environmental effects to an extent that it is acceptable by all parties.
- Ensure boreholes are rehabilitated to, as far as is practicable to its natural state, or to a predetermined and agreed standard or land use which conforms with the concept of sustainable development.

b) Confirm specifically that the environmental objective in relation to the closure have been consulted with landowners and interested and affected parties

The closure requirements to be met as part of this application will be in line with issues raised by the Interested and Affected Parties.

c) Provide a rehabilitation plan that describes and show the scale and aerial extent of the main mining activity, include anticipated mining area at the time of closure.

A detailed site rehabilitation plan will be compiled at decommissioning phase.

The following will be undertaken as part of the rehabilitation activities of the areas that will be impacted by the prospecting and associated infrastructure:

- Seal all exploration boreholes;
- Ensure that no erosion as result of drilling;
- Ensure that all contaminated areas a cleaned and soil is deposited as per the EMP; and
- Ensure that all compacted areas as result of prospecting are ripped and allow for revegetation.

d) Explain why it can be confirmed that the rehabilitation plan is compatible with the closure objective

Rehabilitation activities will ensure that the no further impacts are expected as result of the prospecting activities on the study area.

e) Calculate the state and quantum of the financial provision required to manage and rehabilitate the environment in accordance with the applicable guidelines.

Refer to **Appendix 5** for the closure cost assessment and financial provision done by the mine.

f) Confirm that the financial provision will be provided as determined

The mine confirmed that the financial provision detailed on **Appendix 5** will be provided by the mine as part of its overall mine provision for the rehabilitation of disturbed areas.

MECHANISMS FOR COMPLIANCE AND THE PERFORMANCE ASSESSMENT AGAINST THE ENVIRONMENTAL MANAGEMENT PROGRAMME AND REPORTING THEREON

SOURCE ACTIVITY	IMPACTS REQUIRING	FUNCTIONAL REQUIREMENTS	ROLES AND	MONITORING AND
	MONITORING	FOR MONITORING	RESPONSIBILITIES (FOR	REPORTING
	PROGRAMMES		THE EXECUTION OF THE	FREQUENCY and TIME
			MONITORING	PERIODS FOR
			PROGRAMMES)	IMPLEMENTING IMPACT
				MANAGEMENT ACTIONS
Environmental	Not applicable (relevant	To ensure that all relevant		Prior to site establishment
permits and	authorisations,	authorisations and permits have		
authorisations	registrations and permits	been obtained and are located		
	are underway)	on site at all times.		
		Ensure that a copy of the BAR		
		and EMPR are kept on-site and		
		communicated to site		
		personnel.		
Site establishment	• Loss of natural	To ensure the no-go areas are		Daily monitoring by the
	vegetation	identified communicated and		applicant designated SHE
	Soil erosion	demarcated.		Manager and monthly
	• Loss of land	Vegetation clearing must be		auditing by an Independent
	capability	limited to the demarcated area.		party
	Visual impacts and	• Ensure dust suppression		
	• Introduction of	schedule and measures are in		
	weeds and alien	place in areas prone to dust		
	invasive plants	generation.		
	Dust emissions			

	Noise	Ensure alien plants and weeds	
		·	
	 Heritage 	are managed at all times, to	
		prevent a seed bank from	
		establishing through drawing up	
		an alien plants monitoring and	
		clearing schedule.	
		After each rain event, check for	
		erosion.	
		All plant and vehicles are to be	
		checked on a daily basis using	
		a daily checklist to identify any	
		problems with equipment.	
		While clearing an area, the	
		area is to be monitored for the	
		presence of heritage artefacts	
		or unmarked graves.	
Diamond and	Soil erosion	To ensure the no-go areas are	Daily monitoring by the
Directional Drilling	• Loss of land	identified communicated and	Applicants designated SHE
	capability	demarcated.	Manager
	Visual impacts and	Vegetation clearing must be	
	Introduction of weeds	limited to the demarcated area.	
	and alien invasive	Ensure dust suppression	
	plants	schedule and measures are in	
	Dust emissions	place in areas prone to dust	
	Noise	generation.	

		Ensure alien plants and weeds	
		are managed at all times, to	
		prevent a seed bank from	
		establishing through drawing up	
		an alien plants monitoring and	
		clearing schedule.	
		Daily checks for erosion are to	
		be done and repaired if	
		identified.	
		All plant and vehicles are to be	
		checked on a daily basis using	
		a daily checklist to identify any	
		problems with equipment.	
Construction of	Soil erosion • Loss of	To ensure the no-go areas are	Daily monitoring by the
structures and/or	land capability	identified communicated and	Applicant 's designated
facilities on site	Visual impacts and	demarcated.	SHE Manager
(storage, berms,	Introduction of weeds	Vegetation clearing must be	
fence, ablution	and alien invasive	limited to the demarcated area.	
facilities etc.)	plants	Daily checks that all gates are	
	Dust emissions	closed so that no livestock is	
	Noise	being mixed to let out as a result	
		of the activities	
		Ensure dust suppression	
		schedule and measures are in	
		place in areas prone to dust	
		generation.	

			•	Ensure alien plants and weeds	
				are managed at all times, to	
				prevent a seed bank from	
				establishing through drawing up	
				an alien plants monitoring and	
				clearing schedule.	
			•	Daily checks for erosion are to	
				be done and repaired if	
				identified.	
			•	All plant and vehicles are to be	
				checked on a daily basis using	
				a daily checklist to identify any	
				problems with equipment.	
Construction of	•	Soil erosion	•	To ensure the impacts is limited	Daily monitoring by the
access roads	•	Noise pollution; •		to the designated area.	Applicant 's designated
	•	Dust generation;	•	Ensure the erosion control	SHE Manager
	•	Traffic congestion.		measures area in place such as	
		J		soil berms, v drains and cut off	
				drains.	
			•	Ensure all the traffic measures	
				are in place to direct traffic	
				during construction.	
Stockpiles of soil and	•	Surface and ground	•	To ensure no contaminated run-	Daily monitoring by the
inert material.		water contamination;		off from entering drainage lines	Applicant 's designated
	•	Dust generation;		3 0	SHE Manager
	•	Noise pollution;			-

Visual impacts;	•	Ensure dust suppression
• Disruption of		measures are in place in areas
services; and		prone to dust generation
Waste	•	To ensure compliance with local
Introduction of weeds		by-laws and regulations
and alien invasive		regarding the noise and hours
plants		of operation.
	•	To ensure that drilling activities
		do not disrupt services or
		agricultural activities
	•	Avoid damage to surrounding
		private property and
		infrastructure due to runaway
		fires by ensuring that the
		necessary fire prevention
		measures are in place.
	•	No open fires are allowed on the
		site.
	•	Ensure that general and
		hazardous waste is collected
		frequently on site. All general
		waste shall be further sorted to
		maximise its re-use and
		recycling. All documentation
		relating to waste stipulated in
		the above sections is to be

checked on a weekly basis
Ensure the surface water runoff
is appropriately channelled
through or around the stockpile
areas to prevent erosion
damage resulting from
stormwater runoff.
Ensure alien plants and weeds
are managed at all times, to
prevent a seed bank from
establishing.
Monitor the size of the stockpile
that it does not exceed the
designated height

m) Indicating the frequency of the submission of the performance assessment/ environmental audit report

Based on the outcome of this assessment and the level of impacts that may be associated with the proposed project, it is recommended that the frequency of conducting and reporting on a performance assessment can be every two years.

This recommendation will be in line with Section 26(e) of the NEMA EIA Regulations of 2014, which states that:

The frequency of auditing of compliance with the conditions of the environmental authorisation and of compliance with the EMPr, and where applicable the closure plan, in order to determine whether such EMPr and closure plan continuously meet mitigation requirements and addresses environmental impacts, taking into account processes for such auditing prescribed in terms of these Regulations: provided that the frequency of the auditing of compliance with the conditions of the environmental authorisation and of compliance with the EMPr may not exceed intervals of five years; the frequency of the auditing of compliance with the conditions of the environmental authorisation and of compliance with the EMPr may not exceed intervals of five years.

n) Environmental Awareness Plan

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

Environmental Induction Training

The purpose of the induction training is to promote a general awareness of the sensitivity of the environment, the legal commitments and the aspirations of Applicant in terms of environmental management and the environmental consequences of individual actions. Induction is applicable to all employees, contractors and service providers that will be working within the mine.

Environmental Induction for Employees and Service Providers/Visitors

The induction training for employees, contractors and service providers and on-site visitors is to take the form of a site information conditions which will include:

- o A description of environmental sensitivities in the study area environment.
- A description of broad-based objectives of environmental management for this project.
- A discussion of how individual actions can impact on the environment.

- A discussion of how individual actions can assist in the successful implementation of the environmental authorisation and the EMPr.
- o Other relevant generic environmental and corporate requirements.

Requirements

- o Environmental induction material (posters, power point presentations etc.);
- Code of Conduct;
- o Register of inducted employees, service providers and contractors.

• Environmental Awareness Programme

The purpose of the general environmental awareness programme is to promote ongoing environmental awareness amongst the workforce. All members of the project workforce and contractors are to be incorporated into the general environmental awareness programme.

Monthly Environmental Topics

A monthly environmental awareness topic is to be chosen based on the outcomes of internal audits as well as topics of general environmental interest. The topic is to be communicated to the workforce through:

- Discussions at all SHE meetings.
- Posters on notice boards.

Monthly environmental topics could include:

- General and environmental topics
- Reporting environmental incidents
- Environmental impacts associated with water, waste, soil, groundwater, fauna, flora, etc
- Environmental emergency training
- · Preventing and cleaning up spills
- Reduce, reuse and recycle
- General versus hazardous waste
- Alien vegetation control
- Saving water
- Saving energy
- Heritage sites

Requirements

- Environmental topics to be included on the agenda of relevant environmental related meetings.
- Environmental awareness material to be produced and posted.
- 1) Manner in which the applicant intends to inform his or her employees of any environmental risk which may result from their work.
 - Specific Environmental Awareness Training

The purpose of the job specific environmental awareness training is to ensure that employees within the specific management units are equipped to implement the actions committed to in the environmental authorisation and the EMPr. All members of the workforce are to be subject to job specific environmental training. This training is to be undertaken by the managers of each of the

management units. Supervisors will be trained to assist with the implementation and training of the work force.

Environmental Risk Identification

The environmental risks associated with each management area are to be identified by the by the site personnel. The risks are to be documented and actions to reduce these risks should be developed. The actions are to ensure overall compliance with the commitments of the environmental authorisation and the EMPr. The findings of the performance assessment audits and EMPr compliance monitoring will also assist in identifying risks.

Training

All members of the workforce are to be subject to job specific training. This may include but not be limited to:

- Preventing pollution
- Spill prevention and clean-up procedures
- The location and purpose of material safety data sheets (MSDSs)
- Managing waste
- No-go areas
- Incident reporting

The aspects to be covered however are dependent on the findings of the individual risk assessments. This is to be undertaken for each management area initially. Thereafter all new members of the workforce are to undergo environmental training as part of the training required to do their particular job.

Corrective Action

- Any actions undertaken by a worker that pose a risk to the environment are to be stopped immediately.
- The worker is to be instructed in how to correct the action.

Non-compliance is to be incorporated into the standard disciplinary procedure applicable to the project.

Requirements

- Risk assessment and action plan for each of the project areas.
- Training of the workforce within each management area.
- o Training of new members of the workforce.

- o Records of appropriate training conducted.
- 2) Manner in which risk will be dealt with in order to avoid pollution or the degradation of the environment.

Refer on the items above with specific to each of the requirements to be met.

O) Specific information required by the competent authority

Currently none specified.

UNDERTAKING

The EAP herein confirms

a)) The correctness of information provided in this report								
b)	The	inclusion	of	comments	and	inputs	from		X

stakeholders and I&APs



c) The inputs and recommendation from specialist reports where relevant



d) That the information provided by the EAP to the I&APs and any response the EAP to the comments and input made by the I&APs are correctly reflected herein



by

Repy

Signature of the Environmental Assessment practitioner

LICEBO ENVIRONMENTAL AND MINING (PTY) LTD

Company Name

0 March 2022

Date

-END-