

Environmental Scoping Assessment (ESA) for Proposed Exploration Activities on Exclusive Prospecting Licence (EPL) No. 7763 Located Near Henties Bay, Erongo Region

ENVIRONMENTAL ASSESSMENT REPORT: FINAL

ECC Application Reference: APP-001442

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EXECUTIVE SUMMARY

Nakatati Trading CC (hereinafter referred to as the Proponent), has been granted the Exclusive Prospecting Licence (EPL) No. 7763 on 22nd October 2020, and expires on 21st October 2023. The EPL covers a surface area of 19 790.958 hectares (ha) and is located about 32.57 km east of Henties Bay, Erongo Region. The commencement of exploration activities on the EPL requires an Environmental Clearance Certificate (ECC). The target commodities for this project are **Base & Rare metals, Dimension Stone, Industrial Minerals, Nuclear Fuel Minerals and Precious Metals.**

The EPL 7763 is located within the Dorob National Park. Thus, the regulations stipulated in the National Policy on Prospecting and Mining in Protected Areas (2018) in relation to the EPL is highly recommended.

Prospecting and exploration-related activities are among the listed activities that may not be undertaken without an ECC under the Environmental Impact Assessment (EIA) Regulations, Subsequently, to ensure that the proposed activity is compliant with the national environmental legislation, the project Proponent appointed an independent environmental consultant, Excel Dynamic Solutions (Pty) Ltd to undertake the required Environmental Assessment (EA) process and apply for the ECC on their behalf.

The application for the ECC was compiled and submitted to the competent authority (Ministry of Environment, Forestry and Tourism (MEFT)) as the environmental custodian for project registration purposes. Upon submission of an Environmental Scoping Assessment (ESA) Report and Draft Environmental Management Plan (EMP), an ECC for the proposed project may be considered by the Environmental Commissioner at the MEFT's Department of Environmental Affairs and Forestry (DEAF).

Brief Project Description

Planned Activities: Proposed Exploration Methods

The Proponent intends to adopt a systematic prospecting and exploration approach to the project as follows:

1. Non-invasive Technique:

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- Desktop Study: Geological mapping: Mainly entails a desktop review of geological maps and ground observations. This includes the review of geological maps of the area and on-site ground traverses and observations and an update where relevant, of the information obtained during previous geological studies of the area and aero-geophysics survey.
- Lithology geochemical surveys: Rock and soil samples shall be collected and taken for trace element analysis to be conducted by analytical chemistry laboratories to determine if enough target commodities are present. Also, trenches or pits may be dug depending on the commodity (in a controlled environment e.g., fencing off and labeling activity sites) adopting a manual approach or excavator to further investigate the mineral potential. Soil sampling consists of small pits being dug where 1kg samples can be extracted and sieved to collect 50g of material. As necessary, and to ensure adequate risk mitigations, all major excavations will both be opened and closed immediately after obtaining the needed samples or the sites will be secured until the trenches or pits are closed. At all times, the land owners and other relevant stakeholders will be engaged to obtain authorization where necessary.
- Geophysical surveys: This will entail data collection of the substrata (in most cases service of an aero-geophysical contractor will be sourced), by air or ground, through sensors such as radar, magnetic, and electromagnetic sensors to detect any mineralization in the area to ascertain the mineralization. Ground geophysical surveys shall be conducted, where necessary using vehicle-mounted sensors or handheld by staff members, while in the case of air surveys, the sensors will be mounted to an aircraft, which then flies over the target area.

2. Invasive Technique:

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• Detailed Exploration Drilling (Invasive Technique): Should analyses by an analytical laboratory be positive, holes are drilled, and drill samples collected for further analysis. This will determine the depth of the potential mineralization. If necessary new access tracks to the drill sites will be created and drill pads will be cleared in which to set up the rig. Two widely used drilling options may be adopted, these are either Reverse Circulation (RC) drilling and/or diamond drilling. RC drilling uses a pneumatic hammer, which drives a rotating tungsten-steel bit. The technique produces an uncontaminated large-volume sample, which is comprised of rock chips. It is relatively quicker and cheaper when compared to other techniques like Diamond Drilling. However, diamond drilling may also be considered for this exploration program, for better geological control and to perform processing trials. A typical drilling site will consist of a drill-rig, and support vehicles as well as a drill core and geological samples store. A drill core equipment parking and maintenance yard may be set up (including a fuel and lubricants storage facility).

Public Consultation

Public Consultation Activities

Regulation 21 of the EIA Regulations details steps to be taken during a public consultation process and these have been used in guiding this process. The public consultation process assisted the Environmental Consultant in identifying all potential impacts and aided in the process of identifying possible mitigation measures and alternatives to certain project activities. The communication with I&APs about the proposed prospecting and exploration activities was done through the following means in this order to ensure that the public is notified and allowed to comment on the proposed project:

 A Background Information Document (BID) containing information about the proposed exploration activities was compiled and emailed upon request to all registered Interested and Affected Parties (I&APs).



- Project Environmental Assessment notices were published in New Era Newspaper and The Namibian Newspaper (12 and 19 April 2023), briefly explaining the activity and its locality, inviting members of the public to register as I&APs and submit their comments/concerns.
- A consultation meeting was scheduled and held with the interested and affected parties on the 24th April 2023 at Henties Bay Town Hall at 09H00.
- The issues and concerns raised were noted and used to form a basis for the ESA Report and EMP.

Potential Impacts identified

The following potential impacts are anticipated:

- Positive impacts: Socio-economic development through employment creation (primary, secondary, and tertiary employment) and skills transfer; Opens up other investment opportunities and infrastructure-related development benefits; Produces a trained workforce and small businesses that can serve communities and may initiate related businesses; Boosts the local economic growth and regional economic development and; Increased support for local businesses through the procurement of consumable items such as Personal Protective Equipment (PPE), machinery spare parts, lubricants, etc.
- Negative impacts: Potential disturbance of existing pastoral systems; Physical land/soil disturbance; Impact on local biodiversity (fauna and flora); Habitat disturbance and potential illegal wildlife and domestic hunting in the area; Potential impact on water resources and soils particularly due to pollution; Air quality issue: potential dust generated from the project; Potential occupational health and safety risks, Vehicular traffic safety and impact on services infrastructures such as local roads, Vibrations, and noise associated with drilling activities may be a nuisance to locals; Environmental pollution (solid waste and wastewater), Archaeological and heritage impact and Potential social nuisance and conflicts (theft, damage to properties, etc.).

The potential negative impacts were assessed, and mitigation measures were provided accordingly.



CONCLUSIONS AND RECOMMENDATIONS

Conclusions

The potential impacts that are anticipated from the proposed project activities were identified, described, and assessed. For the significant adverse (negative) impacts with a medium rating, appropriate management, and mitigation measures were recommended for implementation by the Proponent, their contractors, and project-related employees.

The public was consulted as required by the EMA and its 2012 EIA Regulations (Sections 21 to 24). This was done via the two newspapers (New Era and The Namibian) used for this environmental assessment. A consultation was held through a face-to-face meeting with Interested and affected parties in Henties Bay, whereby they raised comments and concerns on the proposed project activities.

The issues and concerns raised by the registered I&APs formed the basis for this Report and the Draft EMP. The issues were addressed and incorporated into this Report whereby mitigation measures have been provided thereof to avoid and/or minimize their significance on the environmental and social components. Most of the potential impacts were found to be of medium-rating significance. With the effective implementation of the recommended management and mitigation measures, will particularly see a reduction in the significance of adverse impacts that cannot be avoided completely (from medium rating to low). To maintain the desirable rating, the implementation of management and mitigation measures should be monitored by the Proponent directly, or their Environmental Control Officer (ECO) is highly recommended. The monitoring of this implementation will not only be done to maintain the reduced impacts' rating or maintain a low rating but to also ensure that all potential impacts identified in this study and other impacts that might arise during implementation are properly identified in time and addressed right away too.

It is crucial for the Proponent and their contractors as well as to effectively implement the recommended management and mitigation measures to protect both the biophysical and social environment throughout the project duration. All these would be done to promote environmental sustainability while ensuring a smooth and harmonious existence and purpose of the project activities in the community and environment at large.



Recommendations

The Environmental Consultant is confident that the potential negative impacts associated with the proposed project activities can be managed and mitigated by the effective implementation of the recommended management and mitigation measures and with more effort and commitment put into monitoring the implementation of these measures.

It is, therefore, recommended that the proposed prospecting and exploration activities be granted an ECC, provided that:

- All the management and mitigation measures provided herein are effectively and progressively implemented.
- All required permits, licenses, and approvals for the proposed activities should be obtained
 as required. These include permits and licenses for land use access agreements to
 explore and ensure compliance with these specific legal requirements.
- The Proponent and all their project workers or contractors comply with the legal requirements governing their project and its associated activities and ensure that project permits and or approvals required to undertake specific site activities are obtained and renewed as stipulated by the issuing authorities.
- Site areas where exploration activities have ceased are rehabilitated, as far as practicable, to their pre-exploration state.
- Environmental Compliance monitoring reports should be compiled and submitted to the DEAF Portal as per the provision made on the MEFT/DEAF's portal.

Disclaimer

Excel Dynamic Solutions (EDS) warrants that the findings and conclusion contained herein were accomplished following the methodologies outlined in the Scope of Work and Environmental Management Act (EMA) of 2007. These methodologies are described as representing good customary practice for conducting an EIA of a property to identify recognized environmental conditions. There is a possibility that even with the proper application of these methodologies there may exist subject property conditions that could not be identified within the scope of the assessment, or which were not reasonably identifiable from the available information. The



Consultant believes that the information obtained from the record review and during the public consultation processes concerning the proposed exploration work is reliable. However, the Consultant cannot and does not warrant or guarantee that the information provided by the other sources is accurate or complete. The conclusions and findings outlined in this report are strictly limited in time and scope to the date of the evaluations. No other warranties are implied or expressed.

Some of the information provided in this report is based on personal interviews, and research of available documents, records, and maps held by the appropriate government and private agencies. This report is subjected to the limitations of historical documentation, availability, and accuracy of pertinent records, and the personal recollections of those persons contacted.



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Appendix C: Curricula Vitae (CV) for the Environmental Assessment Practitioner (EAP)

Appendix D: Proof of Public Consultation (Newspaper Adverts, Attendance register, Meeting

Minutes)

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Appendix E: Mineral Licence copy for EPL No. 7763

LIST OF ABBREVIATIONS

Abbreviation	Meaning
AMSL	Above Mean Sea Level
BID	Background Information Document
CV	Curriculum Vitae
DEA	Department of Environmental Affairs
EA	Environmental Assessment
EAP	Environmental Assessment Practitioner
ECC	Environmental Clearance Certificate
EDS	Excel Dynamic Solutions
ESA	Environmental Scoping Assessment
EMA	Environmental Management Act
EMP	Environmental Management Plan
EPL	Exclusive Prospecting Licence
GG	Government Gazette
GN	Government Notice
I&APs	Interested and Affected Parties
MEFT	Ministry of Environment, Forestry, and Tourism
MME	Ministry of Mines and Energy
PPE	Personal Protective Equipment
Reg	Regulation
S	Section

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TOR	Terms of Reference

DEFINITION OF TERMS

Alternative	A possible course of action, in place of another would meet the		
	same purpose and need of the proposal.		
Baseline	Work done to collect and interpret information on the		
Daseille	condition/trends of the existing environment.		
Biophysical	That part of the environment that does not originate with human		
	activities (e.g. biological, physical, and chemical processes).		
Cumulative	About an activity, means the impact of an activity that in itself		
Impacts/Effects	may not be significant but may become significant when added		
Assessment	to the existing and potential impacts eventuating from similar or		
	diverse activities or undertakings in the area.		
Decision-maker	The person(s) entrusted with the responsibility for allocating		
	resources or granting approval to a proposal.		
Ecological Processes	Processes play an essential part in maintaining ecosystem		
	integrity. Four fundamental ecological processes are the cycling		
	of water, the cycling of nutrients, the flow of energy, and		
	biological diversity (as an expression of evolution).		
Environment	As defined in the Environmental Management Act - the complex		
	of natural and anthropogenic factors and elements that are		
	mutually interrelated and affect the ecological equilibrium and the		
	quality of life, including – (a) the natural environment that is land,		
	water, and air; all organic and inorganic matter and living		
	organisms and (b) the human environment that is the landscape		
	and natural, cultural, historical, aesthetic, economic and social		
	heritage and values.		

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Environmental	As defined in the EIA Regulations (Section 8(j)), a plan that	
Management Plan	describes how activities that may have significant environments	
	effects are to be mitigated, controlled, and monitored.	
Exclusive Prospecting	Is a license that confers exclusive mineral prospecting rights over	
Licence	the land of up to 1000 km2 in size for an initial period of three	
	years, renewable twice for a maximum of two years at a time.	
Interested and Affected	Concerning the assessment of a listed activity includes - (a) any	
Party (I&AP)	person, group of persons, or organization interested in or	
	affected by the activity; and (b) any organ of state that may have	
	jurisdiction over any aspect of the activity.	
Significant Impact	Means an impact that by its magnitude, duration, intensity, or	
	probability of occurrence may have a notable effect on one or	
	more aspects of the environment.	
Proponent	As defined in the Environmental Management Act, a person who	
	proposes to undertake a listed activity.	
Mitigate	Practical measures to reduce adverse impacts.	
Fauna	All of the animals that are found in a given area.	
Flore		
Flora	All of the plants are found in a given area.	
Mitigation	The purposeful implementation of decisions or activities that are	
	designed to reduce the undesirable impacts of a proposed action	
	on the affected environment.	
Monitoring	Activity involving repeated observation, according to a pre-	
	determined schedule, of one or more elements of the	
	environment to detect their characteristics (status and trends).	

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Nomadic Pastoralism Proponent	Nomadic pastoralists live in societies in which the husbandry of grazing animals is viewed as an ideal way of making a living and the regular movement of all or part of the society is considered a normal and natural part of life. Pastoral nomadism is commonly found where climatic conditions produce seasonal pastures but cannot support sustained agriculture. Organization (private or public sector) or individual intending to implement a development proposal.
Public	A range of techniques can be used to inform, consult or interact
Consultation/Involvement	with stakeholders affected by the proposed activities.
Protected Area	Refers to a protected area that is proclaimed in the Government Gazette
	according to the Nature Conservation Ordinance number 4 of 1975, as amended
Scoping	An early and open activity to identify the impacts that are most likely to be significant and require specialized investigation during the EIA work. Can, also be used to identify alternative project designs/sites to be assessed, obtain local knowledge of the site and surroundings, and prepare a plan for public involvement. The results of scoping are frequently used to prepare a Terms of Reference for the specialized input into full EIA.
Terms of Reference (ToR)	Written requirements governing full EIA input and implementation, consultations to be held, data to be produced,

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and form/contents of the EIA report. Often produced as an output	
from scoping.	

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1 INTRODUCTION

1.1 Project Background

Nakatati Trading CC (hereinafter referred to as the Proponent), has been granted with an Exclusive Prospecting Licence (EPL) No. 7763 by the Ministry of Mines and Energy (MME). The EPL was granted on 22nd October 2020, and expires on 21st October 2023. The covers a surface area of 19 790.958 hectares (ha) and is located about 32.57 km east of Henties Bay, Erongo Region, and cover (overlies) Dorob National Park. The commencement of exploration activities on the EPL requires an Environmental Clearance Certificate (ECC). The target commodities for this project are Base & Rare metals, Dimension Stone, Industrial Minerals, Nuclear Fuel Minerals and Precious Metals.

Section 27 (1) of the Environmental Management Act (EMA) (No. 7 of 2007) and its 2012 Environmental Impact Assessment (EIA) Regulations, provides a list of activities that may not be carried out without an EIA undertaken and an ECC obtained. Exploration activities are listed among activities that may not occur without an ECC. Therefore, individuals or organizations may not carry out exploration activities without an ECC awarded to the Proponent.





Figure 1: Locality map for EPL No. 7763



1.2 Terms of Reference, Scope of Works, and Appointed EA Practitioner

To satisfy the requirements of the EMA and its 2012 EIA Regulations, The Proponent appointed EDS to conduct the required Environmental Assessment (EA) process on their (Proponent's) behalf, and thereafter, apply for an ECC for exploration works on the EPL. There were no formal Terms of Reference (ToR) provided to EDS by the Proponent. The consultant, instead, relied on the requirements of the Environmental Management Act (No. 7 of 2007) (EMA) and its EIA Regulations (GN. No. 30 of 2012) to conduct the study.

The application for the ECC (**Appendix A**) is compiled and submitted to the Ministry of Environment, Forestry, and Tourism (MEFT), the environmental custodian for project registration purposes. Upon submission of an Environmental Scoping Assessment (ESA) Report and Draft Environmental Management Plan (EMP) (**Appendix B**), an ECC for the proposed project may be considered by the Environmental Commissioner at the MEFT Department of Environmental Affairs and Forestry (DEAF).

The EIA project is headed by Mr. Nerson Tjelos, a qualified and experienced Geoscientist and experienced EAP. The consultation process and reporting is done by Mr. Silas David. EAP CV is presented in **Appendix C.**

1.3 Motivation for exploration activities for EPL 7763 in Protected Area: Dorob National Park

The EPL 7763 lies within the Dorob National Park which is one of the largest National Park in Africa. Taking into account that the EPL lies within the protected area, the National Policy on Prospecting and Mining in Protected Areas will apply during the exploration phase of the project. Rehabilitation will be a priority as per required under the Mining and Prospecting in Protected Areas and National Monuments (1999).

EPL 7763 is in close vicinity with an active Minig Licence (ML) No. 185 which is owned by Namib Lead Zinc Mining (Pty) Ltd (100%) and ML 152 owned by Savanna Marble CC (100%). These active MLs falls within the Dorob National Park. It is under this condition that the consultant is confident that an ECC may be issued on a condition that the provided management measures and action plans are affectively implemented on site and monitored.



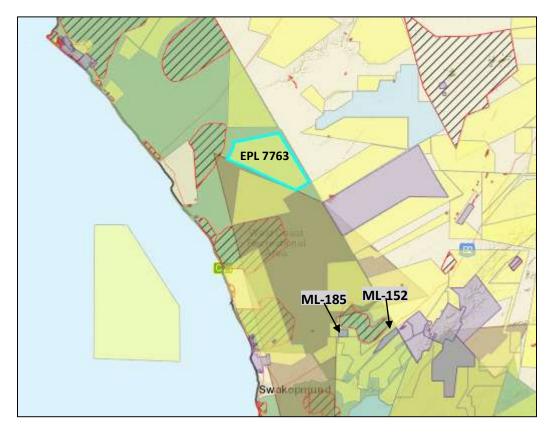


Figure 2: Mining Licence within the Dorob National Park (Source: https://maps.landfolio.com/Namibia/)

Table 1 presents different characteristics of Protected Areas as stipulated in the National Policy on Prospecting and Mining in Protected Areas (2018) in relation to the area (EPL 7763). The Consultant understands that the policy is also aimed at establishing "No-Go Areas" where exploration and mining will not be permitted due to high conservation and/or aesthetic and tourism value, based upon the best available information.

Table 1: Characteristics of Protected Areas

Characteristic	Case with EPL 7763 (YES/NO/UNKNOWN)	Consultant Comment
Biodiversity Priority Areas	YES	In the Dorob National Park
High Value Tourism Areas	UNKNOWN	



Known Breeding Areas of Certain Species, Including Marine Species	NO	Inland exploration project
Important Wetland Areas	NO	Dryland
Areas with Existing Economic Activities That Would Be Compromised by Prospecting and/or Mining.	UNKNOWN	Active mining activities known in the vicinity of the exploration EPL.
Areas with The Potential to Be Developed into Economically Viable Tourist or Other Compatible Operations.	NO	

1.4 The Need for the Proposed Project

The mining industry is one of the largest contributors to the Namibian economy; therefore, it contributes to the improvement of livelihoods. In Namibia, exploration for minerals is done mainly by the private sector. Exploration activities have a great potential to enhance and contribute to the development of other sectors and its activities do provide temporary employment, and taxes that fund social infrastructural development. The minerals sector yields foreign exchange and account for a significant portion of gross domestic product (GDP). Additionally, the industry produces a trained workforce and small businesses that can serve communities and may initiate related businesses. Exploration activity fosters several associated activities such as manufacturing of exploration and mining equipment, and provision of engineering and environmental services. The mining sector forms the vital part of some of Namibia's development plans, namely: Vision 2030, National Development Plan 5 (NDP5) and Harambee Prosperity Plans (HPPs) I and II. Thus, mining is essential to the development goals of Namibia in contributing to meeting the ever-increasing global demand for minerals, and for national prosperity. Therefore, successful exploration on EPL 7763 would lead to the mining of targeted commodities which could contribute towards achieving the goals of the national development plans; hence the need to undertake the proposed exploration activities on the EPL.



1.5 Namibia's Approach towards exploration and Mining in a National Park

Any mining development in a National Park must be balanced against the risk that it could jeopardize the potential for long-term sustainable development. Prospecting and mining of minerals, elements and rocks stated in the Minerals (Prospecting and Mining) Act of 1992 are permitted as such developments are in the national interest. The targeted commodity group are listed in the Minerals Act. The National Policy on Prospecting and Mining in Protected Areas developed in 2018 states that granting of an Exclusive Prospecting and Mining Licences is permitted in Protected Areas and National Monuments upon presenting a plan of activities that will be carried out using best practice, taking into account long-term national benefits and conservation efforts.

The Policy of the Conservation of Biotic Diversity and Habitat Protection was drafted by MEFT in 1994 to ensure adequate protection of all species and subspecies, of ecosystems, and of natural life-support processes.

1.6 Namib Ecology Integrity

The ecological integrity and diversity of fauna and flora of the Western Namib is well addressed in the Strategic Environmental Management Plan (SEMP) developed in 2009 as a result of the Strategic Environmental and Socio-Economic Assessment. The annual SEMP report (2014) indicated that the integrity and diversity of the Western Namib biodiversity is not compromised by the exploration and mining activities. The report went further to explain that ecological integrity means that ecological processes are maintained, key habitats are protected, rare and endangered and endemic species are not threatened. The SEMP limits are defined through Environmental Quality Objectives and aim to;

- Improve Namibia's and the Erongo region's sustainable socio-economic development and outlook without undermining the growth potential of other sectors.
- Promote local employment and integration of society;
- Ensure that key infrastructure is adequate and well maintained, thus enabling economic development, public convenience and safety;



- Ensure that the integrity of all aquifers remains consistent with the existing natural and operational conditions (baseline). This requires that both the quantity and quality of groundwater are not adversely affected by prospecting and mining activities;
- Ensure workers and the public do not suffer significant increased health risks from the exploration and mining activities;
- Safeguard the natural beauty of the desert and ensure its sense of place are not compromised unduly by the exploration and mining activities;
- Identify ways of avoiding conflicts between the tourism industry and prospecting/mining, so that both industries can coexist in the Western Namib;
- Protect the ecological integrity and diversity of fauna and flora of the Central Namib. All efforts are taken to avoid impacts to the Namib and where this is not possible, disturbed areas are rehabilitated and restored to function after mining/development;
- Maintain and enhance Namibia's international image because of environmentally, socially and financially responsible mining operations;
- Ensure that exploration and mining and all related infrastructure developments will
 have the least possible negative impact on archaeological and paleontological
 heritage resources.

2 PROJECT DESCRIPTION: PROPOSED EXPLORATION ACTIVITY

Prospecting and exploration of minerals are the first components of any potential mining project. These are carried out to acquire the necessary data required for further decision-making and investment options. These activities are anticipated to last for about three years. The exploration process includes three phases - prospecting, exploration, and the decommissioning of works.

2.1 Prospecting Phase (Non-Invasive Techniques)

2.1.1 Desktop Study



This mainly entails a desktop review of geological maps of the area, on-site ground traverses and observations, and an update, where relevant, of the information obtained during previous geological studies of the area.

2.1.2 Geophysical surveys

Geophysical surveys entail data collection of the substrata by air or ground, through sensors such as radar, magnetic, and/or electromagnetic sensors, to detect and ascertain any mineralization in the area. Ground geophysical surveys shall be conducted, where necessary, using vehicle-mounted sensors or handheld by staff members, while in the case of air surveys, the sensors are mounted to an aircraft, which navigates over the target area.

2.1.3 Lithology geochemical surveys

Rock and soil samples shall be collected and taken for trace element analysis to be conducted by analytical chemistry laboratories to determine the sufficiency of the mineral and the feasibility of mining the mineral. Additionally, trenches or pits may be dug depending on the commodity (in a controlled environment e.g., fencing off and labeling activity sites) adopting a manual approach or excavator to further investigate the mineral potential.

Soil sampling consists of small pits being dug, where 1kg samples can be extracted and sieved to collect about 50g of material. As necessary, and to ensure adequate risk mitigation, all major excavations will be closed immediately after obtaining the needed samples, or the sites will be secured until the trenches or pits are closed. The Interested and Affected Parties and other relevant stakeholders will be engaged to obtain authorization where necessary.

2.1.4 Exploration Phase (Invasive Techniques)

The selection of the potential mineralization model and exploration targets will be based on the local geology, and the trenching, drilling, and assay results of the samples collected. The planned exploration activities are aimed at delineating the mineral deposits and determining whether the deposits are economically feasible mining resources.

2.1.5 Detailed Exploration (Drilling)



Should analyses by an analytical laboratory yield positive results, holes are drilled, and drill samples are collected for further analysis. This determines the depth of the potential mineralization. If necessary, new access tracks to the drill sites will be created and drill pads at which to set up the rig will be cleared. Two widely used drilling options may be adopted - the Reverse Circulation (RC) drilling method and/or the Diamond (Core) drilling method. The RC drilling method uses a pneumatic hammer, which drives a rotating tungsten-steel bit. RC Drilling produces an uncontaminated large-volume sample, which comprises rock chips. It is relatively quicker and cheaper when compared to other techniques like Diamond Drilling. However, diamond drilling may also be considered for this exploration program, for better geological control and to perform processing trials.

A typical drilling site consists of a drill-rig and support vehicles as well as a drill core and geological samples store. A drill equipment parking and maintenance yard may be set up (including a fuel and lubricants storage facility).

Other aspects of the proposed exploration operations include:

2.1.6 Accessibility to Site

The EPL is accessible via the D1918 road from Henties Bay, leading to the EPL area. The Proponent may need to do some upgrading on the site access roads to ensure that it is fit to accommodate project-related vehicles, such as heavy trucks.

2.1.7 Material and Equipment

The requirements of the exploration program in terms of vehicles and equipment include (4X4) vehicles, a truck, water tanks, drill rigs and drilling machines, and a power generator. Equipment and vehicles will be stored at a designated area near the accommodation site or a storage site established within the EPL area.

2.1.8 Services and Infrastructure

• Water: Water for the exploration operations on the EPL will be obtained from the nearest existing boreholes, or the proponent will drill boreholes within the EPL, upon obtaining necessary permits and signed agreements with the affected parties in the area. The estimated



monthly water consumptions are 3 500 liters. This includes water for drinking, sanitation, cooking, dust control (if necessary), drilling, as well as washing of equipment.

- **Power supply:** Power required during the operation phase will be provided by diesel generators. About 2000 liters of diesel will be used per day.
- Fuel (diesel for generators and other equipment): The fuel (diesel) required for exploration equipment will be stored in a tank mounted on a mobile trailer, and drip trays will be readily available on this trailer and monitored to ensure that accidental fuel spills are cleaned up as soon as they have been detected/observed. Fuel may also be stored in a bunded diesel bowser on site, and in jerry cans placed on plastic sheeting to avoid unnecessary contamination of soils.

2.1.9 Waste Management

The site will be equipped with secured waste bins for each type of waste (i.e., domestic, hazardous, and recyclable). Depending on the amount generated, waste will be sorted and collected as regularly as possible and taken to the nearest certified landfill site. An agreement will need to be reached with different waste management facility operators/owners and authorization or permits will be obtained before utilizing these facilities, in the case of production of any hazardous waste.

- Sanitation and human waste: Portable ablution facilities will be used, and the sewage will
 be disposed of according to the approved disposal or treatment methods of the waste
 products.
- Hazardous waste: Drip trays and spill control kits will be available on-site to ensure that
 oil/fuel spills and leaks from vehicles and equipment are captured on time and contained
 correctly before polluting the site.

The waste produced on-site can also be categorized as mineral or non-mineral waste:

- Mineral Waste: Consists of solid products of exploration and mineral concentration to acquire
 the targeted minerals. Mineral waste will potentially be produced throughout the project
 exploration phase. This waste will be stripped and dumped in allocated areas as stipulated in
 the EMP.
- **Non-mineral Waste:** Consists primarily of auxiliary materials that will support the exploration phase. This includes but is not limited to items such as empty containers, plastic, etc., and



other domestic waste. This waste will be collected, sorted, and taken to the dumpsite as regularly as necessary.

2.1.10 Safety and Security

- Storage Site: Temporary storage areas for exploration material, equipment, and machinery
 will be required at the campsite and/or exploration sites. Security will be supplied on a 24hour basis at the delegated sites for storage. A temporary support fence surrounding the
 storage site will be constructed to ensure people and domestic animals are not put at risk.
- **Fire management:** A minimum of basic firefighting equipment, i.e., fire extinguishers will be readily available in vehicles, at the working sites and camps. The exploration crew is required to have the contact details of the nearest fire station at hand in case of a larger scale of fires at the site.
- Health and Safety: Adequate and appropriate Personal Protective Equipment (PPE) will be
 provided to every project personnel while on and working at the site. A first aid kit will be
 readily available on-site to attend to potential minor injuries.

2.1.11 Accommodation

The exploration crew will be accommodated in Henties Bay, or a campsite will be set up for the exploration crew near the exploration sites. If the accommodation camp is to be set up on the traditional jurisdiction, necessary arrangements will be made with the MEFT. Exploration activities will take place during daytime only and staff will commute to the exploration site(s) from their place of accommodation if they are not accommodated on site.

2.2 Decommissioning and Rehabilitation Phase

Once the exploration activities on the EPL come to an end, the Proponent will need to put site rehabilitation measures in place. Decommissioning and rehabilitation are primarily reinforced through a decommissioning and rehabilitation plan, which consists of safety, health, environmental, and contingency aspects. An unfavorable economic situation or unconvincing exploration results might force the Proponent to cease the exploration program before the predicted closure. Therefore, it is best practice for the Proponent to ensure the project activities cease in an environmentally friendly manner and the site is rehabilitated.



3 PROJECT ALTENATIVES

Alternatives are defined as the "different means of meeting the general purpose and requirements of the activity" (EMA, 2007). This section highlights the different ways in which the project can be undertaken, and identifies alternatives that may be the most practical, but least damaging to the environment.

Once the alternatives have been established, these are examined by asking the following three questions:

- What alternatives are technically and economically feasible?
- What are the environmental effects associated with the feasible alternatives?
- What is the rationale for selecting the preferred alternative?

The alternatives considered for the proposed development are discussed in the following subsections.

3.1 Types of Alternatives Considered

3.1.1 The "No-go" Alternative

The "no action" alternative implies that the status quo remains, and nothing happens. Should the proposal of exploration activities on the EPL be discontinued, none of the potential impacts (positive and negative) identified would occur. If the proposed project is to be discontinued, the current land use for the proposed site will remain unchanged.

This no-go option is considered and a comparative assessment of the environmental and socioeconomic impacts of the "no action" alternative is undertaken to establish what benefits might be lost if the project is not implemented. The key losses that may never be realized if the proposed project does not go ahead include:

- Loss of foreign direct investment.
- About ten (10) temporary job opportunities for community members will not be realized.
- No realization of local business supports through the procurement of consumable items such as Personal Protective Equipment (PPE), machinery spare parts, lubricants, etc.



- Loss of potential income to the local and national government through land lease fees, license lease fees, and various tax structures.
- Improved geological understanding of the site area regarding the targeted commodities.
- Socio-economic benefits such as skills acquisition for local community members would be not realized.

Considering the above losses, the "no-action/go" alternative was not considered a viable option for this project, although, in the case where parts of the project site are considered environmentally sensitive and/or protected, one or several sections of the site may be identified as no-go zones.

3.1.2 Exploration Location

The prospecting/exploration location is dependent on the geological setting (regional and local), the economic geology, and the exploration and mining history of the EPL area. Therefore, finding an alternative location for the planned exploration activities is not possible. This means that the mineralization of the target commodities is area-specific, and exploration targets are primarily determined by the geology (host rocks) and the tectonic environment of the site (an ore-forming mechanism)). The tenement has a sufficient surface area for future related facilities, should an economic mineral deposit be defined.

Furthermore, the national mineral resources' potential locations are also mapped and categorized by the Ministry of Mines and Energy, on exclusive prospecting licenses, mining licenses and claims, mineral deposit retention licenses, reconnaissance licenses, and exclusive reconnaissance licenses. Available information on EPL (**Figure 2**) and other licenses are available on the Namibia Mining Cadastral Map here https://portals.landfolio.com/namibia/



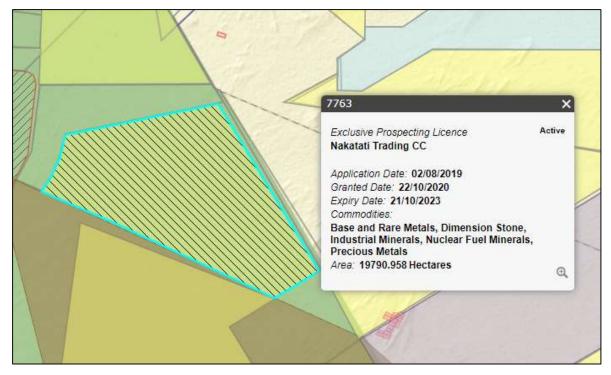


Figure 3: The location of EPL 7763 on the National Mining Cadastre

3.1.3 Exploration Methods

Both invasive and non-invasive exploration activities as indicated under the project description chapter are expected to take place. If an economically viable discovery is made, the project will proceed to the mining phase upon approval of a mining EIA and issuance of a mining license. If any other alternative viable exploration methods are found to achieve the purpose more effectively and/or efficiently without aggravating any environmental measures put in place.



4 LEGAL FRAMEWORK: LEGISLATION, POLICIES, AND GUIDELINES

Prospecting and exploration activities have legal implications associated with certain applicable legal standards. A summary of applicable and relevant international policies and Namibian legislation, policies, and guidelines for the proposed development is given in this section (**Table 1**). This summary serves to inform the project Proponent, Interested and Affected Parties, and the decision-makers at the DEAF, of the requirements and expectations, as laid out in terms of these instruments, to be fulfilled to establish the proposed prospecting and exploration activities.

4.1 The Environmental Management Act (No. 7 of 2007)

This EIA was carried out according to the Environmental Management Act (EMA) and its Environmental Impact Assessment (EIA) Regulations (GG No. 4878 GN No. 30).

The EMA has stipulated requirements to complete the required documentation to obtain an ECC for permission to undertake certain listed activities. These activities are listed under the following Regulations:

- 3.1 The construction of facilities for any process or activities which requires a license, the
 right of other forms of authorization, and the renewal of a license, right, or other forms of
 authorization, in terms of the Minerals (Prospecting and Mining Act, 1992).
- 3.2 other forms of mining or extraction of any natural resources whether regulated by law or not.
- 3.3 Resource extraction, manipulation, conservation, and related activities.

The Environmental Impact Assessment (EIA) Regulations GN 28-30 (GG 4878) detail requirements for public consultation within a given environmental assessment process (GN 30 S21). The EIA regulations also outline the required details of a Scoping Report (GN 30 S8) and an Assessment Report (GN 30 S15).



The National Policy on Prospecting and Mining in Protected Areas

This Policy was developed in 2018 to complement various regulations and policies relevant to prospecting and mining, in order to ensure minimal negative impacts on the environment (referred to in **Table 2**).

The Parks and Wildlife Management Bill (2008)

The bill aims to provide a regulatory framework for the protection, conservation, and rehabilitation of species and ecosystems, the sustainable use and sustainable management of indigenous biological resources, and the management of protected areas, in order to conserve biodiversity and in order to contribute to national development.

Integrated Coastal Management Act (draft)

The core objective of this proposed Act is to establish a system of integrated coastal management in Namibia in order to promote the conservation of the coastal environment, maintaining the natural attributes of the coastal landscapes and seascapes, and ensuring the sustainable development and use of the natural resources within the coastal zone that is also socially, economically and ecologically justifiable. A permanent Coastal Management Authority will be established to realise this and other objectives. Functions and powers of the CMA would include, among other, to explore possible regulations for coastal zone use and enforcement capacity for such regulations.

Other legal obligations that are relevant to the proposed activities of EPL No. 7763 and related activities are presented in **Table 2** below.

Table 2: Applicable local, national and international standards, policies and guidelines governing the proposed prospecting and exploration activities



Legislation /	Relevant Provisions	Implications for this project
Policy /		
Guideline:		
Custodian		
The Constitution	The Constitution of the Republic of	By implementing the
of the Republic of	Namibia (1990 as amended) addresses	environmental management
Namibia, 1990 as	matters relating to environmental	plan, the establishment will be
amended:	protection and sustainable	conformant to the constitution in
Government of	development. Article 91(c) defines the	terms of environmental
the Republic of	functions of the	management and sustainability.
Namibia	Ombudsman to include:	Ecological sustainability will be
	"the duty to investigate complaints	the main priority for the
	concerning the over-utilization of living	proposed development.
	natural resources, the irrational	
	exploitation of non-renewable	
	resources, the degradation and	
	destruction of ecosystems and failure to	
	protect the beauty and character of	
	Namibia"	
	Article 95(I) commits the state to	
	actively promoting and maintaining the	
	welfare of the people by adopting	
	policies aimed at the:	
	"Natural resources situated in the soil	
	and on the subsoil, the internal waters,	
	in the sea, in the continental shelf, and	
	in the exclusive economic zone are	
	property of the State."	
Minerals	Section 52 requires mineral license	The Proponent should enter into
(Prospecting and	holders to enter into a written	a written agreement with



Legislation /	Relevant Provisions	Implications for this project
Policy /		
Guideline:		
Custodian		
Mining) Act (No.	agreement with affected landowners	landowners before exploring
33 of 1992):	before exercising rights conferred upon	their land. The Proponent should
Ministry of	the license holder.	engage the MEFT for land use
Mines and	Section 52(1) mineral license holder	consent.
Energy (MME)	Section 52(1) mineral license holder may not exercise his/her rights in any town or village, on or in a proclaimed road, land utilized for cultivation, within 100m of any water resource (borehole, dam, spring, drinking trough, etc.) and boreholes, or no operations in municipal areas, etc.), which should individually be checked to ensure compliance. Section 54 requires a written notice to be submitted to the Mining Commissioner if the holder of a mineral license intends to abandon the mineral license area. Section 68 stipulates that an application for an exclusive prospecting license (EPL) shall contain the particulars of the condition of, and any existing damage to, the environment in the area to which the application relates and an estimate of the effect which the proposed	An assessment of the impact on the receiving environment should be carried out. The Proponent should include as part of their application for the EPL, measures by which they will rehabilitate the areas where they intend to carry out mineral exploration activities. The Proponent may not carry out exploration activities within the areas limited by Section 52 (1) of this Act.
	prospecting operations may have on the environment and the measures to	



Legislation /	Relevant Provisions	Implications for this project
Policy /		
Guideline:		
Custodian		
	be taken to prevent or minimize any	
	such effect.	
	Section 91 requires that rehabilitation	
	measures should be included in an	
	application for a mineral license.	
Nature	National Parks are established and	
Conservation	gazetted following the Nature	
Amendment Act,	Conservation Ordinance, 1975 (4 of	The Proponent will be required
No. 3 of 2017:	1975), as amended. The Ordinance	to enhance the conservation of
Ministry of	provides a legal framework concerning	biodiversity and the
Environment,	the permission of entering a state-	maintenance of the ecological
Forestry and	protected area, as well as requirements	integrity of protected areas and
Tourism (MEFT)	for individuals damaging objects	another State land in the Project
	(geological, ethnological,	Site area.
	archaeological, and historical) within a	The Proponent will also be
	protected area. Though the Ordinance	required to comply with the
	does not specifically refer to mining as	existing and planned local
	an activity within a protected area (PA)	operational management plans,
	or recreational area (RA), it does restrict	regulations, and guidelines of
	access to PAs and prohibits certain acts	the three conservancies.
	therein as well as the purposes for	
	which permission to enter game parks	
	and nature reserves may be granted.	
The Parks and	Aims to provide a regulatory framework	
Wildlife	for the protection, conservation, and	
Management Bill	rehabilitation of species and	
of 2008: Ministry	ecosystems, the sustainable use and	



Legislation /	Relevant Provisions	Implications for this project
Policy /		
Guideline:		
Custodian		
of Environment,	sustainable management of indigenous	
Forestry and	biological resources, and the	
Tourism (MEFT)	management of protected areas, to	
	conserve biodiversity and contribute to	
	national development.	
Mine Health &	Makes provision for the health and	The Proponent should comply
Safety	safety of persons employed or	with all these regulations
Regulations, 10th	otherwise present in the mineral	concerning their employees.
Draft: Ministry of	licenses area. These deal with among	
Health and	other matters; clothing and devices;	
Social Services	design, use, operation, supervision, and	
(MHSS)	control of machinery; fencing and	
	guards; and safety measures during	
	repairs and maintenance.	
Petroleum	Regulation 3(2)(b) states that "No	The Proponent should obtain the
Products and	person shall possess [sic] or store any	necessary authorization from
Energy Act (No.	fuel except under the authority of a	the MME for the storage of fuel
13 of 1990)	license or a certificate, excluding a	on-site.
Regulations	person who possesses or stores such	
(2001): Ministry	fuel in a quantity of 600 liters or less in	
of Mines and	any container kept at a place outside a	
Energy (MME)	local authority area"	
The Regional	This Act sets out the conditions under	The relevant Regional Councils
Councils Act (No.	which Regional Councils must be	are IAPs and must be consulted
22 of 1992):	elected and administer each delineated	during the Environmental
Ministry of	region. From a land use and project	Assessment (EA) process. The
Urban and Rural	planning perspective, their duties	project site falls under the



Legislation /	Relevant Provisions	Implications for this project				
Policy /						
Guideline:						
Custodian						
Development	include, as described in section 28 "to	Erongo Regional Council;				
(MURD)	undertake the planning of the	therefore, they should be				
	development of the region for which it	consulted.				
	has been established with a view to					
	physical, social and economic					
	characteristics, urbanization patterns,					
	natural resources, economic					
	development potential, infrastructure,					
	land utilization pattern and sensitivity of					
	the natural environment.					
Local Authorities	To provide for the determination, for					
Act No. 23 of	purposes of local government, of local	The Hentice Day Tour Council				
1992): Ministry	authority councils; the establishment of	The Henties Bay Town Council is the responsible local Authority of the area therefore they should be consulted.				
of Urban and	such local authority councils; and to					
Rural	define the powers, duties and functions					
Development	of local authority councils; and to	be consulted.				
(MURD)	provide for incidental matters.					
Water Act 54 of	The Water Resources Management Act	The protection (both quality and				
1956: Ministry of	11 of 2013 is present without	quantity/abstraction) of water				
Agriculture,	regulations; therefore, the Water Act No	resources should be a priority.				
Water and Land	54 of 1956 is still in force:	The permits and license				
Reform	Prohibits the pollution of water and	required thereto should be				
(MAWLR)	implements the principle that a person	obtained from MAWLR's				
	disposing of effluent or waste has a duly	relevant Departments (these				
	of care to prevent pollution (S3 (k)).	permits include Borehole Drilling				



Legislation /	Relevant Provisions	Implications for this project
Policy /		
Guideline:		
Custodian		
	Provides for control and protection of	Permits, Groundwater
	groundwater (S66 (1), (d (ii)).	Abstraction & Use Permits, and
	Liability of clean-up costs after	when required, Wastewater /
	closure/abandonment of an activity (S3	Effluent Discharge Permits).
	(l)). (l)).	
Water Resources	The Act provides for the management,	
Management Act	protection, development, use, and	
(No 11 of 2013):	conservation of water resources;	
Ministry of	provides for the regulation and	
Agriculture,	monitoring of water services, and	
Water and Land	provides for incidental matters. The	
Reform	objects of this Act are to:	
(MAWLR)	Ensure that the water resources of	
	Namibia are managed, developed,	
	used, conserved, and protected in a	
	manner consistent with, or conducive	
	to, the fundamental principles set out in	
	Section 66 - protection of aquifers,	
	Subsection 1 (d) (iii) provide for	
	preventing the contamination of the	
	aquifer and water pollution control	
	(S68).	
National Heritage	To provide for the protection and	The Proponent should ensure
Act No. 27 of	conservation of places and objects of	compliance with this act's
2004: Ministry of	heritage significance and the	requirements. The necessary
Education, Arts,	registration of such places and objects;	management measures and



Legislation /	Relevant Provisions	Implications for this project
Policy /		
Guideline:		
Custodian		
and Culture	to establish a National Heritage	related permitting requirements
(MEAC)	Council; to establish a National	must be taken. This is done by
(MEAO)	Heritage Register; and to provide for	consulting with the National
	incidental matters.	Heritage Council (NHC) of
		Namibia. The management
The National	The Act enables the proclamation of	measures should be
Monuments Act	national monuments and protects	incorporated into the Draft EMP.
(No. 28 of 1969):	archaeological sites.	inosporatos into the Drait Livii .
Ministry of		
Education, Arts,		
and Culture		
(MEAC)		
Soil Conservation	The Act makes provision for the	Duty of care must be applied to
Act (No 76 of	prevention and control of soil erosion	soil conservation and
1969): Ministry	and the protection, improvement, and	management measures must be
of Agriculture,	conservation of soil, vegetation, and	included in the EMP.
Water and Land	water supply sources and resources,	
Reform	through directives declared by the	
(MAWLR)	Minister.	
Forestry Act (Act	The Act provides for the management	The proponent will apply for the
No. 12 of 2001:	and use of forests and forest products.	relevant permit under this Act if
Ministry of	Section 22. (1) provides: "Unless	it becomes necessary.
Environment,	otherwise authorized by this Act, or by	
Forestry and	a license issued under subsection (3),	
Tourism (MEFT)	no person shall on any land which is not	
	part of a surveyed erven of a local	
	authority area as defined in section 1 of	
	,	



Legislation /	Relevant Provisions	Implications for this project
Policy /		
Guideline:		
Custodian		
	the Local Authorities Act, 1992 (Act No.	
	23 of 1992) cut, destroy or remove - (a)	
	vegetation which is on a dune or drifting	
	sand or a gully unless the cutting,	
	destruction or removal is done to	
	stabilize the sand or gully; or (b) any	
	living tree, bush or shrub growing within	
	100 m of a river, stream or	
	watercourse."	
Public Health Act	Section 119 states that "no person shall	The Proponent and all its
(No. 36 of 1919):	cause a nuisance or shall suffer to exist	employees should ensure
Ministry of	on any land or premises owned or	compliance with the provisions
Health and	occupied by him or of which he is in	of these legal instruments.
Social Services	charge any nuisance or other condition	of those logal motivations.
(MHSS)	liable to be injurious or dangerous to	
(health."	
Health and Safety	Details various requirements regarding	
Regulations GN	the health and safety of labourers.	
156/1997 (GG		
1617): Ministry		
of Health and Social Services		
(MHSS)		
Public and	The Act serves to protect the public	The Proponent should ensure
Environmental	from nuisance and states that no	that the project infrastructure,
Health Act No. 1	person shall cause a nuisance or shall	vehicles, equipment, and
of 2015: Ministry	suffer to exist on any land or premises	machinery are designed and



Legislation /	Relevant Provisions	Implications for this project
Policy /		
Guideline:		
Custodian		
of Health and	owned or occupied by him or of which	operated in a way that is safe, or
Social Services	he is in charge any nuisance or other	not injurious or dangerous to
(MHSS)	condition liable to be injurious or	public health, and that the noise
	dangerous to health.	and dust emissions which could
		be considered a nuisance
		remain at acceptable levels.
		Public and environmental health
		should be preserved and remain
		uncompromised.
Atmospheric	This ordinance provides for the	The proposed project and
Pollution	prevention of air pollution and is	related activities should be
Prevention	affected by the Health Act 21 of 1988.	undertaken in such a way that
Ordinance	Under this ordinance, the entire area of	they do not pollute or
(1976): Ministry	Namibia, apart from East Caprivi, is	compromise the surrounding air
of Health and	proclaimed as a controlled area for	quality. Mitigation measures
Social Services	section 4(1) (a) of the ordinance.	should be put in place and
(MHSS)		implemented on-site.
Hazardous	The ordinance provides for the control	The Proponent should handle
Substance	of toxic substances. It covers	and manage the storage and
Ordinance, No.	manufacture, sale, use, disposal, and	use of hazardous substances on
14 of 1974:	dumping as well as import and export.	site so that they do not harm or
Ministry of	Although the environmental aspects are	compromise the site
Health and	not explicitly stated, the ordinance	environment
Social Services	provides for the importing, storage, and	
(MHSS)	handling.	



Legislation /	Relevant Provisions	Implications for this project
Policy /		
Guideline:		
Custodian		
Road Traffic and	The Act provides for the establishment	Mitigation measures should be
Transport Act,	of the Transportation Commission of	provided for, if the roads and
No. 22 of 1999:	Namibia; for the control of traffic on	traffic impact cannot be avoided,
Ministry of	public roads, the licensing of drivers,	the relevant permits must be
Works and	the registration and licensing of	applied for.
Transport	vehicles, the control and regulation of	
(Roads	road transport across Namibia's	
Authority of	borders; and for matters incidental	
Namibia)	thereto. Should the Proponent wish to	
	undertake activities involving road	
	transportation or access to existing	
	roads, the relevant permits will be	
	required.	
Labour Act (No. 6	Ministry of Labour, Industrial Relation	s The Proponent should ensure
of 1992):	and Employment Creation is aimed a	that the prospecting and
Ministry of	ensuring harmonious labour relation	s exploration activities do not
Labour,	through promoting social justice	e, compromise the safety and
Industrial	occupational health and safety, and	d welfare of workers.
Relations and	enhanced labour market services for the	e
Employment	benefit of all Namibians. This ministr	у
Creation	insures the effective implementation of the	е
(MLIREC)	Labour Act No. 6 of 1992.	

4.2 International Policies, Principles, Standards, Treaties, and Conventions



The international policies, principles, standards, treaties, and conventions applicable to the project are listed in **Tabel 3** below.

Table 3: International Policies, Principles, Standards, Treaties and Convention applicable to the project

Statute	Provisions	Project Implications
Equator Principles	A financial industry benchmark for	These principles are an
Equator i inicipies	determining, assessing, and managing	attempt to: 'encourage
	environmental and social risk in projects	the development of
	(August 2013). The Equator Principles	socially responsible
	have been developed in conjunction with	projects, which subscribe
	the International Finance Corporation	to appropriately
	(IFC), to establish an International	responsible
	Standard with which companies must	environmental
	comply to apply for approved funding by	management practices
	Equator Principles Financial Institutions	with a minimum negative
	(EPFIs). The principles apply to all new	impact on project-
	project financings globally across all	affected ecosystems and
	sectors.	community-based
	Dringinle 1. Deview and Catagorization	upliftment and
	Principle 1: Review and Categorization	empowering interactions.
	Principle 2: Environmental and Social	
	Assessment	
	Principle 3: Applicable Environmental	
	and Social Standards	
	and Social Standards	
	Principle 4: Environmental and Social	
	Management System and Equator	
	Principles Action Plan	
	Principle 5: Stakeholder Engagement	
	Principle 6: Grievance Mechanism	
	Principle 7: Independent Review	



	Principle 8: Covenants	
	•	
	Principle 9: Independent Monitoring and	
	Reporting	
	Principle 10: Reporting and	
	Transparency	
The International	The International Finance Corporation's	The Performance
Finance Corporation	(IFC) Sustainability Framework	Standards are directed
(IFC) Performance	articulates the Corporation's strategic	toward clients, guiding
Standards	commitment to sustainable development	how to identify risks and
	and is an integral part of the IFC's	impacts, and are
	approach to risk management. The	designed to help avoid,
	Sustainability Framework comprises	mitigate, and manage
	IFC's Policy and Performance Standards	risks and impacts as a
	on Environmental and Social	way of doing business
	Sustainability, and IFC's Access to	sustainably, including
	Information Policy. The Policy on	stakeholder engagement
	Environmental and Social Sustainability	and disclosure
	describes IFC's commitments, roles, and	obligations of the Client
	responsibilities related to environmental	(Borrower) concerning
	and social sustainability.	project-level activities. In
	As of 28 October 2018, there are ten (10)	the case of its direct
	Performance Standards (Performance	investments (including
	Standards on Environmental and Social	project and corporate
	Sustainability) that the IFC requires	finance provided through
	project Proponents to meet throughout	financial intermediaries),
	the life of an investment. These standard	IFC requires its clients to
	requirements are briefly described below.	apply the Performance
	Performance Standard 1: Assessment	Standards to manage
	and Management of Environmental and	environmental and social
	Social Risks and Impacts	risks and impacts so that
	Transition and impacts	development



Performance Standard 2: Labour and Working Conditions

Performance Standard 3: Resource Efficient and Pollution Prevention and Management

Performance Standard 4: Community Health and Safety

Performance Standard 5: Land Acquisition, Restrictions on Land Use, and Involuntary Resettlement

Performance Standard 6: Biodiversity
Conservation and Sustainable
Management of Living Natural
Resources

Performance Standard 7: Indigenous Peoples/Sub-Saharan African Historically Undeserved Traditional Local Communities

Performance Standard 8: Cultural Heritage

Performance Standard 9: Financial Intermediaries (FIs)

Performance Standard 10: Stakeholder Engagement and Information

A full description of the IFC Standards can be obtained from

http://www.worldbank.org/en/projectsoperations/environmental-and-socialframework/brief/environmental-andopportunities are enhanced. IFC uses the Sustainability Framework along with other strategies, policies, and initiatives to direct the business activities of the Corporation to achieve its overall development objectives.



	social-	
	standards?cq_ck=1522164538151#ess1	
The United Nations	Addresses land degradation in arid	The project activities
Convention to Combat	regions with the purpose to contribute to	should not be such that
Desertification	the conservation and sustainable use of	they contribute to
(UNCCD) 1992	biodiversity and the mitigation of climate	desertification.
	change.	
	The convention's objective is to forge a	
	global partnership to reverse and prevent	
	desertification/land degradation and to	
	mitigate the effects of drought in affected	
	areas to support poverty reduction and	
	environmental sustainability United	
	Nations Convention.	
Convention on	Regulate or manage biological resources	Removal of vegetation
Biological Diversity	important for the conservation of	cover and destruction of
1992	biological diversity whether within or	natural habitats should be
	outside protected areas, to ensure their	avoided and where not
	conservation and sustainable use.	possible minimized.
	Promote the protection of ecosystems,	
	and natural habitats, and the	
	maintenance of viable populations of	
	species in natural surroundings.	
Stockholm	•	Protection of natural
	It recognizes the need for: "a common	
	outlook and common principles to inspire	resources and prevention
Human	and guide the people of the world in the	of any form of pollution.
Environment,	preservation and enhancement of the	
Stockholm (1972)	human environment.	
		1



Relevant international Treaties and Protocols ratified by the Namibian Government

- Convention on International Trade and Endangered Species of Wild Fauna and Flora (CITES), 1973.
- Convention on Biological Diversity, 1992.
- World Heritage Convention, 1972.

5 ENVIRONMENTAL AND SOCIAL BASELINE

The project activities will be undertaken in specific environmental and social conditions. The understanding of these conditions helps in identifying the sensitive environmental features that may need to be protected through the implementation of certain managemet and mitigation measures. The summary of selected physical, biological and social baseline information of the project area is provided below as per the site visit conducted by the Environmental Consultant on 24th April 2023 and relevant published reports and books.

The climatic conditions of the project area is described using the available nearest data for the area obtained from the World Online and Meteoblue websites (2023).

5.1 Biophysical Environment

5.1.1 Climate

Generally, climate mainly denotes to the meteorological elements dignified in a region over time. Climate therefore has a major influence on the exploration activities proposed on the EPL. Understanding the climate conditions helps to determine the appropriate time to conduct exploration activities. **Figure 4** shows the climatic condition around the project area.



	January	February	March	April	May	June	July	August	September	October	November	December
Avg. Temperature °C (°F)	18.4 °C	19 °C	18.8 °C	18.2 °C	16.9 °C	16.1 °C	16.1 °C	14.1 °C	13.9 °C	14.7 °C	16 °C	17.2 °C
	(65.1) °F	(66.1) °F	(65.8) °F	(64.7) °F	(62.4) °F	(61) °F	(60.9) °F	(57.3) °F	(57) °F	(58.5) °F	(60.8) °F	(63) °F
Min. Temperature °C (°F)	16.3 °C	17 °C	16.5 °C	15.5 °C	13.6 °C	12.4 °C	12.2 °C	10.7 °C	10.9 °C	12 °C	13.3 °C	14.8 °C
	(61.4) °F	(62.5) °F	(61.7) °F	(59.9) °F	(56.5) °F	(54.3) °F	(53.9) °F	(51.3) °F	(51.7) °F	(53.6) °F	(55.9) °F	(58.7) °F
Max. Temperature °C	20.9 °C	21.4 °C	21.5 °C	21.1 °C	20.4 °C	20.3 °C	20.4 °C	17.6 °C	17.1 °C	17.7 °C	18.9 °C	19.9 °C
(°F)	(69.6) °F	(70.6) °F	(70.7) °F	(70) °F	(68.8) °F	(68.6) °F	(68.8) °F	(63.7) °F	(62.8) °F	(63.9) °F	(66.1) °F	(67.9) °F
Precipitation / Rainfall	7	10	4	3	1	1	1	1	2	2	2	4
mm (in)	(0.3)	(0.4)	(0.2)	(0.1)	(0)	(0)	(0)	(0)	(0.1)	(0.1)	(0.1)	(0.2)
Humidity(%)	84%	84%	82%	78%	72%	63%	60%	73%	81%	82%	82%	83%
Rainy days (d)	1	1	1	0	0	0	0	0	0	0	0	0
avg. Sun hours (hours)	7.2	7.3	7.5	7.9	7.8	8.1	8.2	7.3	6.7	6.9	7.5	7.5

Figure 4: Climate in the area of Henties Bay (source: https://en.climate-data.org/africa/namibia/erongo-region/henties-bay-1775/)

Namibia has a low humidity in general, and the lack of moisture in the air has a major impact on its climate by reducing cloud cover and rain increases the rate of evaporation (Mendelsohn, 2002). With reference with the above figure, the difference in precipitation between the driest month and the wettest month is 9 mm. The average temperatures vary during the year by 5.1 °C. The month with the highest relative humidity is February (83.87 %). The month with the lowest relative humidity is July (60.44 %). The month with the highest number of rainy days is February (1.40 days). The month with the lowest number of rainy days is July (0.07 days).

5.1.2 Landscape and Topography

The EPL area falls under the Central Western Plain. This landscape is broad area of plain extends inland for about 450 km in places. The plains are large, and formed by erosion cutting back into higher ground and craving out the catchment area of several rivers western plains (Mendelsohn et al, 2008). The EPL lies at an altitude of between 0 - 547 m above sea level. **Figures 5** shows the topographic map of the project area.





Figure 5: Landscape and Topographic map of the project area

5.1.3 Geology

The local geology underlying EPL 7763 comprises of several lithostratigraphic units belonging to the Damara Supergroup and associated intrusives and commonly covered by much younger quaternary sediments. The rocks have a general northeast trend. The Damara Supergroup rocks dominate the license and the quaternary sediments consist of sand, gravel and calcrete. **Figure** 6 below shows the general geology map for the project.



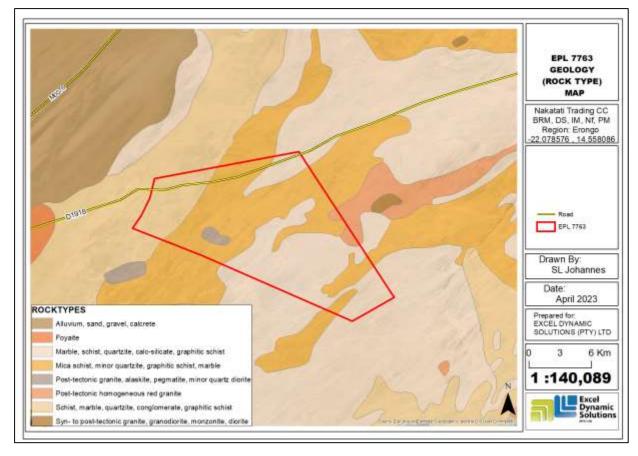


Figure 6: A map of the general geology of the project area

5.1.4 Soil

The majority of the EPL area contains Petric Gypsisols. These types of soil occur in the dry parts of the semi-arid regions where evapotranspiration exceeds considerably the precipitation, and where a source of sulphate is present to form gypsum are soils with accumulation of calcium carbonate. These soils that have a solid layer at a shallow depth that remains hard even when wet and are found normally found in low-lying areas of the landscape (Mendelsohn et al, 2003) such as the areas of the central Namib. These soils have a very low fertility level and therefore only the toughest vegetation survive here (Mendelsohn et al, 2003). **Figure 7** below shows the soil types found within the EPL area.

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It is notable that during the operational phase of the project, soil sampling may be conducted. Therefore, the Soil Conservation Act (No 76 of 1969) should be taken into account to ensure that soils are conserved in a way that does not promote soil erosion. (Refer to the EMP).

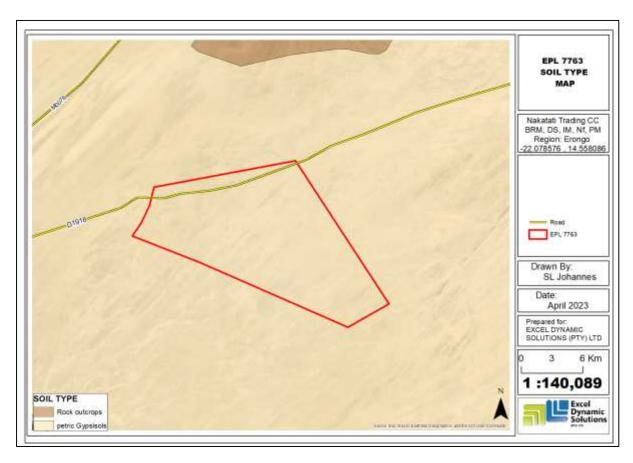


Figure 7: shows the dominant soil types found within the EPL

5.1.5 Water Resources: Groundwater and Surface Water

In terms of surface water/ hydrology, there are minor rivers that flow through the EPL. With regards to groundwater (hydrogeology), the EPL has very little groundwater potential and has no visible boreholes within the EPL vicinity. The nature of rock type potentially does not allow the storage, transmission and flow of groundwater. **Figure 8** shows the hydrology map of the EPL area.



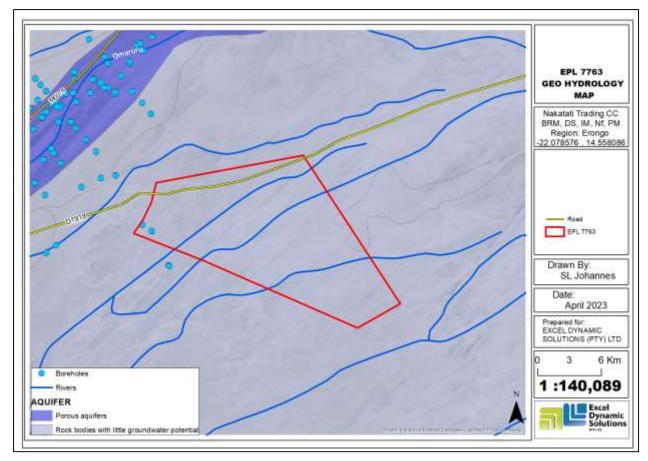


Figure 8: Shows groundwater map for the project area

5.1.6 Flora and Fauna

5.1.6.1 Flora

The following species of significance are found with the EPL 7763 as shown in below.

SPECIES	ENDEMISM	PROTECTED	IUCN1	IUCN2
Acacia reficiens Wawra subsp. Reficiens				
Aizoanthemum galenioides (Fenzl ex Sond.) Friedrich				
Arthraerua leubnitziae (Kuntze) Schinz	Endemic			
Brownanthus kuntzei (Schinz) Ihlenf. & Bittrich				



Commiphora pyracanthoides Engl.			
Cordia sinensis Lam.			
Crassothonna protecta (Dinter) B.Nord.			
Crassula mesembrianthemopsis Dinter		Protected	
Drosanthemum luederitzii (Engl.) Schwantes			
Dyerophytum africanum (Lam.) Kuntze			
Eberlanzia sedoides (Dinter & A.Berger) Schwantes	Near Endemic	Protected	Near Threatened
Eragrostis biflora Hack. ex Schinz			
Eragrostis pygmaea De Winter	Endemic		
Flaveria bidentis (L.) Kuntze			
Galenia papulosa (Eckl. & Zeyh.) Sond.			
Gazania jurineifolia DC. subsp. scabra (DC.) Roessler	Near Endemic		
Helichrysum tomentosulum (Klatt) Merxm. subsp. Tomentosulum			
Heliotropium tubulosum E.Mey. ex DC.			
Hoodia pedicellata (Schinz) Plowes	Near Endemic	Protected	
Indigofera auricoma E.Mey.			
Limeum argute-carinatum Wawra ex Wawra & Peyr. var. argute-			
carinatum			
Lycium decumbens Welw. ex Hiern			
Merremia guerichii A.Meeuse	Endemic		
Myxopappus hereroensis (O.Hoffm.) Källersjö	Endemic		
Nicotiana glauca Graham			
Polygala leptophylla Burch. var. leptophylla			
Psilocaulon salicornioides (Pax) Schwantes	Near Endemic		
Ptycholobium biflorum (E.Mey.) Brummitt subsp. angolensis (Baker)			



Brummitt	
Rhus marlothii Engl.	
Sarcocaulon marlothii Engl.	Endemic
Sarcocaulon mossamedense (Welw. ex Oliv.) Hiern	Near Endemic
Senecio engleranus O.Hoffm.	Endemic
Sporobolus nebulosus Hack.	Near Endemic
Stipagrostis hermannii (Mez) De Winter	Near Endemic
Stipagrostis uniplumis (Licht.) De Winter var. intermedia (Schweick.) De Winter	
Tetraena simplex (L.) Beier & Thulin	
Tetragonia reduplicata Welw. ex Oliv.	
Trichodesma africanum (L.) Lehm.	
Tripteris microcarpa Harv. subsp. septentrionalis (Norl.) B.Nord.	
Triraphis pumilio R.Br.	
Zygophyllum simplex L.	
Zygophyllum stapffii Schinz	Endemic

5.1.6.2 Fauna

Namibia is a large, semi-arid to arid country in the south-western region of southern Africa. It is a land of great contrasts in physical environment, and includes some of the most distinctive of the world's fauna. The most common animals in Henties Bay are springbok, black-backed jackal, Cape fur seal, black hyena, Oryx and zebra (EDS, 2020). However, none of these animals were however observed during site visit.

Sensitivity Areas within EPL 7763: No-go exploration areas

The areas presented below are regarded as sentive within the EPL during exploration phase:



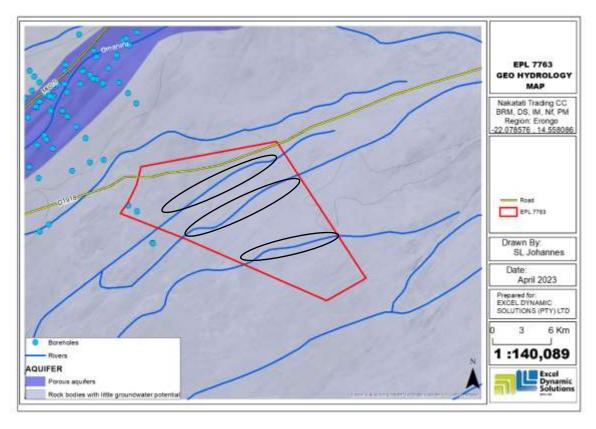
Ephemeral Drainage lines: The various other smaller ephemeral drainage lines throughout the EPL are mostly tributaries of the Omaruru River which drains the general area. These are often well vegetated drainage lines which are virtual lifelines for most vertebrate fauna, especially ungulates, small mammals and birds that forage along these vegetated areas, (Cunningham, 2022).

Ridges and Inselberges: Ridges, outcrops and inselbergs are generally viewed as unique habitat for vertebrate fauna not necessarily associated with the surrounding areas. Various geckos are rock crevasse dwelling species associated with these landforms. Caves and crevasses also serve as roosting site for bats and owls (Cunningham, 2022).

Figure **9** below shows the sensitive area within the EPL 7763, which areas are viewed as the small ephemeral drainage (black ovals) and ridges and inselberges (black dotted ovals). In addition, identified sensitive areas are regarded as no-go zone areas during exploration phase.

The red ovals represents the non-sensitive area (alternative exploration area).





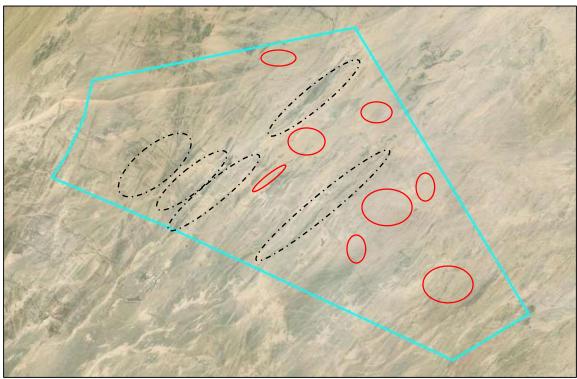




Figure 9: Sensitivity (no-go zone and exploration alternatives areas) of EPL 7763

5.2 Heritage and Archaeology

5.2.1 Local Level and Archaeological Findings

During the site visit which was conducted on the 24 April 2023. Archaeological rock tools where observed on site. Thus, archaeological significant artefacts can still be discovered during exploration activities deemed an ECC is obtain for this EPL, therefore, the National Heritage Act, 27 of 2004 should be adhered to. The **Figure 10** below shows the archaeology significances observed on site.





Figure 10: Shows archaeological rock tools observed on site

5.3 Surrounding Land Uses

The EPL falls within the Naukluft National Park boundary as shown in **Figure 11**. The Proponent is required to secure a signed agreement from the competent authority (MEFT) to gain access to the areas of interest for prospecting and exploration in the Dorob National Park as per requirement from the competent authority (MEFT).



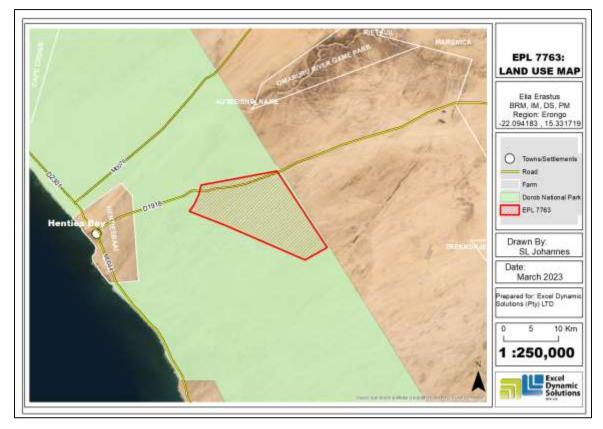


Figure 11: Map showing land use within and surrounding the EPL

5.4 Socio-Economic conditions

5.4.1 Population

The Erongo Region covers an area of 63,586 km2, which comprises 7.7 per cent of Namibia's total area of about 823,680 km2. The population of Erongo Region was 150 809 (approximately 70 986 females and 79 823 males), representing a population of 2.4 persons per square kilometers. Henties Bay population was 4 720 in 2011. (Namibia Statistics Agency, 2011).

5.4.2 Services and Infrastructure

The district in which EPL 7763 is located is well serviced by infrastructure, such as national roads, railways, telephones, petrol stations (Hentiesbaai, Swakopmund, Walvis Bay) and 3-phase



electricity from NamPower. The area can be accessed from Swakopmund and Walvis Bay via C34 or from Windhoek via B1 to Okahandja then via the B2 towards Swakopmund and then C34 towards Hentiesbaai. EPL is located 24 km east of C34. Moreover, EPL is cross cut by the national road, D1918 highway, which joins C34 in Hentiesbaai.

6 PUBLIC CONSULTATION PROCESS

Public consultation is an important component of an Environmental Assessment (EA) process. It provides potential Interested and Affected Parties (I&APs) with an opportunity to comment on and raise any issues relevant to the project for consideration as part of the assessment process, thus assisting the Environmental Assessment Practitioner (EAP) in identifying all potential impacts and what extent further investigations are necessary. Public consultation can also aid in the process of identifying possible mitigation measures. Public consultation for this scoping study has been done following the EMA and its EIA Regulations.

6.1 Pre-identified and Registered Interested and Affected Parties (I&APs)

Relevant and applicable national, regional, and local authorities, local leaders, and other interested members of the public were identified. Pre-identified I&APs were contacted directly, while other parties who contacted the Consultant after project advertisement notices in the newspapers, were registered as I&APs upon their request. Newspaper advertisements of the proposed exploration activities were placed in two widely read national newspapers in the region (New Era Newspaper and The Namibian Newspaper). The project advertisement/announcement ran for two consecutive weeks inviting members of the public to register as I&APs and submit their comments. The summary of pre-identified and registered I&APs is listed in **Table 4** below and the complete list of I&APs is provided in **Appendix D**.

Table 4: Summary of Interested and Affected Parties (I&APs)

National (Ministries and State-Owned Enterprises)

Ministry of Environment, Forestry and Tourism



Ministry of Mines and Energy
Ministry of Health and Social Services
Regional, Local, and Traditional Authorities
Erongo Regional Council
Henties Bay Municipality

General Public

Interested members of the public

Namibia Community-Based Tourism Association

6.2 Communication with I&APs

Regulation 21 of the EIA Regulations details the steps to be taken during a public consultation process and these have been used in guiding this process. Communication with I&APs concerning the proposed development was facilitated through the following means and in this order:

- A Background Information Document (BID) containing brief information about the proposed exploration works was compiled and emailed to identified Interested and Affected Parties (I&APs);
- Project Environmental Assessment notices were published in the New Era Newspaper and The Namibian Newspaper (12 April 2023 and 19 April 2023), briefly explaining the activity and its locality and inviting members of the public to register as I&APs and submit their comments/concerns.
- Public notices were placed at Henties Bay Municipality Hall (Figure 12) to inform members
 of the public about the EIA process.
- Public meetings were scheduled and held on 24 April 2023, at Henties Bay Town Hall 09h00 (Figure 13).



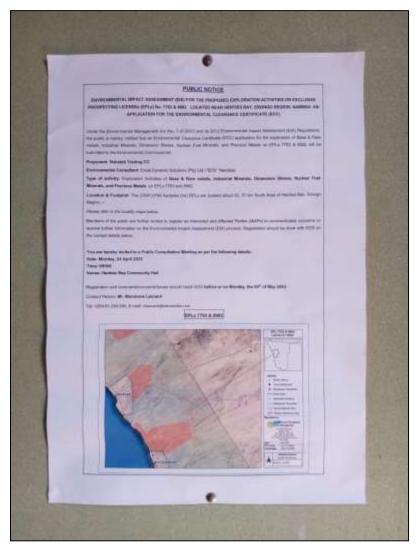


Figure 12: Public notices placed at Hneties Bay Municipality Hall, Erongo Region





Figure 13: Consultation meeting held on the 25th April 2023, Henties Bay Municipality Hall, Erongo Region

Issues raised by I&APs have been recorded and incorporated in the environmental report and EMP. The summarized issues raised during the public meeting are presented in **Table 5** below. The issues raised and responses by EDS are attached under **Appendix G**

Table 5: Summary of main issues raised, and comments received during public meeting engagements

Issue	Concern
Past exploration activities	There has been exploration activities in the vicinity of the EPL which has not been rehabilitated.
Source of Water for exploration activities	Where is the Proponent going to source water from, for exploration activities?



Activities	ls	the	Consultant	condu	cting	ρυ	ıblic
	cons	ultation	n meeting	and site	Visit	for	the
	proje	ect?					

7 IMPACT IDENTIFICATION, ASSESSMENT AND MITIGATION MEASURES

7.1 Impact Identification

Proposed developments/activities are usually associated with different potential positive and/or negative impacts. For an environmental assessment, the focus is placed mainly on the negative impacts. This is done to ensure that these impacts are addressed by providing adequate mitigation measures such that an impact's significance is brought under control while maximizing the positive impacts of the development. The potential positive and negative impacts that have been identified from the prospecting activities are listed as follows:

Positive impacts:

- Creation of jobs for the locals (primary, secondary, and tertiary employment).
- Producing a trained workforce and small businesses that can service communities and may initiate related businesses.
- Boosting local economic growth and regional economic development.
- Open up other investment opportunities and infrastructure-related development benefits.

Negative impacts:

- Disturbance to grazing areas
- Land degradation and Biodiversity Loss
- Generation of dust
- Water Resources Use
- Soil & Water Resources Pollution
- Waste Generation



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- Occupational Health & Safety risks
- Vehicular Traffic Use & Safety
- Noise & Vibrations
- Disturbance to Archaeological & Heritage Resources
- Impacts on local Roads
- Social Nuisance: local property intrusion & disturbance
- Social Nuisance: Job seeking & differing Norms, Culture & values
- Impacts associated with closure and decommissioning of exploration works

7.2 Impact Assessment Methodology

The Environmental Assessment process primarily ensures that potential impacts that may occur from project activity are identified and addressed with environmentally cautious approaches and legal compliance. The impact assessment method used for this project is following Namibia's Environmental Management Act (No. 7 of 2007) and its Regulations of 2012, as well as the International Finance Corporation (IFC) Performance Standards.

The identified impacts were assessed in terms of scale/extent (spatial scale), duration (temporal scale), magnitude (severity), and probability (likelihood of occurring), as presented in **Table 6**, **Table 7**, **Table 8**, and **Table 9**, respectively.

To enable a scientific approach to the determination of the environmental significance, a numerical value is linked to each rating scale. This methodology ensures uniformity and that potential impacts can be addressed in a standard manner so that a wide range of impacts are comparable. It is assumed that an assessment of the significance of a potential impact is a good indicator of the risk associated with such an impact. The following process will be applied to each potential impact:

- Provision of a brief explanation of the impact.
- Assessment of the pre-mitigation significance of the impact; and
- Description of recommended mitigation measures.

The recommended mitigation measures prescribed for each of the potential impacts contribute towards the attainment of environmentally sustainable operational conditions of the project for various features of the biophysical and social environment. The following criteria were applied in this impact assessment:



7.2.1 Extent (spatial scale)

The extent is an indication of the physical and spatial scale of the impact. **Table 6** shows the rating of impact in terms of the extent of spatial scale.

Table 6:Extent or spatial impact rating

Low (1)	Low/Medium (2)	Medium (3)	Medium/High (4)	High (5)
The impact is localized within the site boundary: Site only	The impact is beyond the site boundary: Local	Impacts felt within adjacent biophysical and social environments: Regional	Impact widespread far beyond site boundary: Regional	The impact extends National or international boundaries

7.2.2 Duration

Duration refers to the timeframe over which the impact is expected to occur, measured concerning the lifetime of the project. **Table 7** shows the rating of impact in terms of duration.

Table 7:Duration impact rating

Low (1)	Low/Medium (2)	Medium (3)	Medium/High (4)	High (5)
Immediate mitigating measures, immediate progress	The impact is quickly reversible, and short-term impacts (0-5 years)	Reversible over time; medium-term (5-15 years)	Impact is long-term	Long-term; beyond closure; permanent; irreplaceable or irretrievable commitment of resources

7.2.3 Intensity, Magnitude/severity

Intensity refers to the degree or magnitude to which the impact alters the functioning of an element of the environment. The magnitude of alteration can either be positive or negative. These ratings were also taken into consideration during the assessment of severity. **Table 8** shows the rating of impact in terms of intensity, magnitude, or severity.

Table 8:Intensity, magnitude, or severity impact rating



Type of	Negative								
criteria	H- M/H- (10) (8)		M-	M/L-	L-				
			(6)	(4)	(2)				
Qualitativ e	Very high deterioratio	Substantial deterioration,	Moderate deterioration,	Low deterioratio	Minor deterioration, nuisance or irritation,				
	n, high quantity of deaths, injury or illness / total loss of habitat, total alteration of ecological processes, extinction of	death, illness or injury, loss of habitat/diversit y or resource, severe alteration or disturbance of important processes	discomfort, partial loss of habitat/biodiversit y or resource, moderate alteration	n, slight noticeable alteration in habitat and biodiversity. Little loss in species numbers	minor change in species/habitat/diversi ty or resource, no or very little quality deterioration.				

7.2.4 Probability of occurrence

rare species

Probability describes the likelihood of the impacts occurring. This determination is based on previous experience with similar projects and/or based on professional judgment. **Table 9** shows impact rating in terms of probability of occurrence.

Table 9:Probability of occurrence impact rating

Low (1)	Medium/Low (2)	Medium (3)	Medium/High (4)	High (5)
Improbable; low likelihood; seldom. No known risk or vulnerability to natural or induced hazards.	Likely to occur from time to time. Low risk or vulnerability to natural or induced hazards	A possible, distinct possibility, frequent. Low to medium risk or vulnerability to natural or induced hazards.	Probable if mitigating measures are not implemented. Medium risk of vulnerability to natural or induced hazards.	Definite (regardless of preventative measures), highly likely, and continuous. High risk or vulnerability to natural or induced hazards.

7.2.5 Significance

Impact significance is determined through a synthesis of the above impact characteristics. The significance of the impact "without mitigation" is the main determinant of the nature and degree of



mitigation required. As stated in the introduction to this section, for this assessment, the significance of the impact without prescribed mitigation actions is measured.

Once the above factors (**Table 6**, **Table 7**, **Table 8**, and **Table 9**) have been ranked for each potential impact, the impact significance of each is assessed using the following formula:

SIGNIFICANCE POINTS (SP) = (MAGNITUDE + DURATION + SCALE) X PROBABILITY

The maximum value per potential impact is 100 significance points (SP). Potential impacts were rated as high, moderate, or low significance, based on the following significance rating scale (**Table 10**).

Table 10:Significance rating scale

Significance	Environmental Significance Points	Colour Code
High (positive)	>60	Н
Medium (positive)	30 to 60	М
Low (positive)	1 to 30	L
Neutral	0	N
Low (negative)	-1 to -30	L
Medium (negative)	-30 to -60	M
High (negative)	-60<	Н

Positive (+) – Beneficial impact

Negative (-) – Deleterious/ adverse+ Impact

Neutral – Impacts are neither beneficial nor adverse

For an impact with a significance rating of high (-ve), mitigation measures are recommended to reduce the impact to a medium (-ve) or low (-ve) significance rating, provided that the impact with



a medium significance rating can be sufficiently controlled with the recommended mitigation measures. To maintain a low or medium significance rating, monitoring is recommended for a period to enable the confirmation of the significance of the impact as low or medium and under control.

The assessment of the exploration phases is done for pre-mitigation and post-mitigation.

The risk/impact assessment is driven by three factors:

Source: The cause or source of the contamination.

Pathway: The route taken by the source to reach a given receptor

Receptor: A person, animal, plant, ecosystem, property, or a controlled water source. If contamination is to cause harm or impact, it must reach a receptor.

A pollutant linkage occurs when a source, pathway, and receptor exist together. Mitigation measures aim firstly, to avoid risk and if the risk cannot be avoided, mitigation measures to minimize the impact are recommended. Once mitigation measures have been applied, the identified risk would reduce to lower significance (Booth, 2011).

This assessment focuses on the three project phases namely, prospecting, exploration (and possible analysis), and decommissioning. The potential negative impacts stemming from the proposed activities of the EPL are described and assessed and mitigation measures are provided thereof. Further mitigation measures in a form of management action plans are provided in the Draft Environmental Management Plan.

7.3 Assessment of Potential Negative Impacts

The main potential negative impacts associated with the operation and maintenance phase are identified and assessed below:

7.3.1 Disturbance to the grazing areas

The EPL is overlying Dorob National Park wildlife. Exploration activities such as site clearing, trenching, and drilling can potentially lead to the disturbance of grazing land. This will potentially affect the grazing land available to wildlife, and since the wildlife greatly depends on the little available flora, their livelihood will be impacted.



The effect of exploration work on the land (when done over a wider spatial extent), if not mitigated, may hinder grazing areas. Under the status quo, the impact can consider being of a medium significance rating. With the implementation of appropriate mitigation measures, the rating will be reduced to a lower significance. The impact is assessed in **Table 11** below.

Table 11:Assessment of the impacts of exploration on grazing areas

Mitigation Status	Extent	Duration	Intensity	Probability	Significance
Pre mitigation	M: -4	M: -3	M: -4	M/H: 5	M: -55
Post mitigation	L/M: -2	L/M: -2	L/M: -4	L/M: 3	L: -24

7.3.2 Land Degradation and Loss of Biodiversity

Fauna: The trenching, pitting, and drilling activities carried out during exploration would result in land degradation, leading to habitat loss for a diversity of flora and fauna ranging from microorganisms to large animals and trees. Endemic species are most at risk since even the slightest disruption in their habitat can result in extinction.

The presence and movement of the exploration workforce and operation of project equipment and heavy vehicles would disturb wildlife present. The proposed activities may also carry the risk of the potential illegal hunting of local wildlife. This could lead to the reduction of specific faunal species, which may limit tourism (sightseeing and safari) activity in the area.

Additionally, if the exploration sites are not rehabilitated, they could pose a high risk of injuries to animals by falling into holes and pits.

Flora: Direct impact of exploration works on flora will mainly occur through clearing for exploration access routes and associated infrastructure. The dust emissions from drilling may also affect surrounding vegetation through the fall of dust, if excessive. Some loss of vegetation is an inevitable consequence of the development. However, given a moderate abundance of vegetations and site-specific areas of exploration on the EPL, the impact will be localized, therefore manageable.



Under the status, the impact can be of a medium significance rating. With the implementation of appropriate mitigation measures, the rating will be reduced to a low significance rating. The impact is assessed in **Table 12** below.

Table 12:Assessment of the impacts of exploration on biodiversity

Mitigation Status	Extent	Duration	Intensity	Probability	Significance
Pre mitigation	M: -4	M: -4	M: -6	M/H: 4	M: -56
Post mitigation	L/M: -3	L/M: -3	L/M: -4	L/M: 3	L: -30

7.3.3 Generation of Dust (Air Quality)

Dust emanating from site access routes when transporting exploration equipment and supply to and from the site may compromise the air quality in the area. Vehicular movements from heavy vehicles such as trucks would potentially create dust, even if it is not anticipated to be low. Additionally, activities carried out as part of the exploration works such as drilling would contribute to the dust levels in the air. The medium significance of this impact can be reduced to a low significance rating by properly implementing mitigation measures. The impact is assessed in **Table 13** below.

Table 13: Assessment of the impacts of exploration on air quality

Mitigation Status	Extent	Duration	Intensity	Probability	Significance
Pre mitigation	M: -3	M: -3	M/L: -4	M/H: 4	M: -40
Post mitigation	L - 2	L - 2	L- 2	L - 1	L - 6

7.3.4 Water Resources Use

Water resources are impacted by project developments/activities in two ways - through pollution (water quality) or over-abstraction (water quantity) or at times both.

The abstraction of more water than can be replenished from low groundwater potential areas would negatively affect the EPL area (wildlife) that depend on the same low potential groundwater resource (aguifer).



The impact of the project activities on the resources would be dependent on the water volumes required by each project activity. Exploration activities use a lot of water, mainly for drilling. However, this depends on the type of drilling methods employed (diamond drilling is more water-consuming compared to drilling methods such as reverse circulation for instance) and the type of mineral being explored.

The drilling method to be employed for this project's exploration activities is Reverse Circulation. Given the low to medium groundwater potential of some project site areas, the Proponent may consider carting some of the water volumes from outside the area and storing in industry-standard water reservoirs/tanks on site. The exact amounts of water required for proposed operations would be dependent on the duration of the exploration works and the number of exploration boreholes required to make a reliable interpretation of the commodities explored. The exploration period is temporally limited, therefore, the impact will only last for the duration of the exploration activities, and ceases upon their completion.

Without the implementation of any mitigation measures, the impact can be rated as medium, but upon effective implementation of the recommended measures, the impact significance would be reduced to low as presented in **Table 14** below.

Table 14: Assessment of the project impact on water resource use and availability

Mitigation Status	Extent	Duration	Intensity	Probability	Significance
Pre mitigation	M - 3	M/H - 3	L/M - 4	M/H - 4	M - 40
Post mitigation	L/M - 1	L/M - 1	L - 2	L/M - 3	L - 12

7.3.5 Soil and Water Resources Pollution

The proposed exploration activities are associated with a variety of potential pollution sources (i.e., lubricants, fuel, and wastewater) that may contaminate/pollute soils, and eventually, surface and groundwater. The anticipated potential source of pollution to water resources from the project activities would be hydrocarbons (oil) from project vehicles, machinery, and equipment as well as potential wastewater/effluent from exploration-related activities.

The spills (depending on volumes spilled on the soils) from machinery, vehicles, and equipment could infiltrate into the ground and pollute the fractured or faulted aquifers on site, and with time



reach further groundwater systems in the area. However, it should be noted that the scale and extent/footprint of the activities where potential sources of pollution will be handled is relatively small. Therefore, the impact will be moderately low.

Pre-implementation of any mitigation measures, the impact significance is medium to high and upon implementation, the significance will be reduced to moderate. The impact is assessed in **Table 15** below.

Table 15: Assessment of the project impact on soils and water resources (pollution)

Mitigation Status	Extent	Duration	Intensity	Probability	Significance
Pre mitigation	M - 5	M/L - 3	M/L - 3	M - 4	M - 44
Post mitigation	L - 3	M - 3	L-3	L/M - 3	L - 27

7.3.6 Waste Generation

During the prospecting and exploration program, domestic and general waste is produced onsite. If the generated waste is not disposed of responsibly, land pollution may occur on the EPL
or around the sites. The EPL is in an area of moderate sensitivity to pollution. Improper handling,
storage, and disposal of hydrocarbon products and hazardous materials at the site may lead to
soil and groundwater contamination, in case of spills and leakages. Therefore, the exploration
program needs to have appropriate waste management for the site. To prevent these issues, any
hazardous waste that may have an impact on animals, vegetation, water resources, and the
general environment should be handled cautiously. Without any mitigation measures, the general
impact of waste generation has a medium significance. The impact will reduce to low significance,
upon implementing the mitigation measures. The assessment of this impact is given in **Table 15**below.

Table 16: Assessment of waste generation impact

Mitigation Status	Extent	Duration	Intensity	Probability	Significance
Pre mitigation	L/M - 2	L/M - 2	M - 6	M - 5	M – 50



Post	L - 1	L - 1	L-2	L/M - 2	L - 8
mitigation					

7.3.7 Occupational Health and Safety Risks

Project personnel (workers) involved in the exploration activities may be exposed to health and safety risks. These may result from accidental injury, owing to either minor (i.e., superficial physical injury) or major (i.e., involving heavy machinery or vehicles) accidents. The site safety of all personnel is the Proponent's responsibility and should be adhered to as per the requirements of the Labour Act (No. 11 of 2007) and the Public Health Act (No. 36 of 1919). The heavy vehicle, equipment, and fuel storage area should be properly secured to prevent any harm or injury to the project workers or local animals.

The use of heavy equipment, especially during drilling, and the presence of hydrocarbons on sites may result in accidental fire outbreaks, which could pose a safety risk to the project personnel, equipment, and vehicles. It may also lead to widespread veld fires if an outbreak is not contained and if machinery and equipment are not properly stored, the safety risk may be a concern for project workers and residents.

The impact is probable and has a medium significance rating. However, with adequate mitigation measures, the impact rating will be reduced to low. This impact is assessed in **Table 17** below and mitigation measures are provided.

Table 17: Assessment of the impacts of exploration on health and safety

Mitigation Status	Extent	Duration	Intensity	Probability	Significance
Pre mitigation	M - 3	M/L - 2	M - 6	M/H - 4	M – 44
Post mitigation	L/M - 2	L/M - 2	L - 2	L/M - 2	L - 12

7.3.8 Vehicular Traffic Use and Safety

The EPL is accessible via the D1918 road from Henties Bay, leading to the EPL area. These are some of the main transportation routes for all vehicular movement in the area and provide access to the EPL and connect the project area to other towns. Traffic volume will therefore increase on



these district roads during exploration as the project would need delivery of supplies and services on site.

Depending on the project needs, trucks, medium-sized vehicles, and small vehicles will frequent the area to and from exploration sites on the EPL. This would potentially increase slow-moving heavy vehicular traffic along these roads and add additional pressure on the roads. However, transportation of materials and equipment is expected to occur on a limited schedule and only for the duration of the project. Therefore, the risk is anticipated to be short-term, not frequent, and therefore of medium significance. Before mitigation, the impact can be rated medium and with the implementation of mitigation measures, the significance will be low as assessed in **Table 18** below.

Table 18: Assessment of the impacts of exploration on-road use (vehicular traffic)

Mitigation Status	Extent	Duration	Intensity	Probability	Significance
Pre mitigation	M - 4	M/H - 3	L/M - 4	M/H - 5	M - 55
Post mitigation	L/M - 2	L/M - 2	L - 2	L/M - 2	L - 12

7.3.9 Noise and vibrations

Prospecting and exploration work (especially drilling) may be a nuisance to surrounding communities due to the noise produced by the activity. Excess noise and vibrations can be a health risk to workers on site. The exploration equipment used for drilling on site is of medium size and the noise level is bound to be limited to the site only, therefore, the impact likelihood is minimal. Without any mitigation, the impact is rated as of medium significance. To change the impact significance from the pre-mitigation significance to a low rating, mitigation measures should be implemented. This impact is assessed in **Table 19** below.

Table 19: Assessment of the impacts of noise and vibrations from exploration

Mitigation Status	Extent	Duration	Intensity	Probability	Significance
Pre mitigation	L/M - 2	L/M - 2	M - 6	M/H - 3	M – 30
Post mitigation	L - 1	L/M - 2	L - 2	L/M -2	L - 10



7.3.10 Disturbance to Archaeological and Heritage Resources

The specialist archaeological assessment conducted, indicates that Erongo Region is sensitive and contains archeological/cultural significant sites, and there is a possibility of unveiling/discovering new archeological and/or cultural materials in the proposed project area. If such Materials are found the areas must be mapped out and coordinates taken to establish "No-Go-Areas", due to their sensitivity and then documented. They may be protected either by fencing them off or demarcation for preservation purposes, or excluding them from any development i.e., no exploration activities should be conducted near these recorded areas through the establishment of buffer zones.

This impact can be rated as medium significance if there are no mitigation measures in place. Upon implementation of the necessary measures, the impact significance will be reduced to a lower rating. The impact is assessed in **Table 20**.

Table 20: Assessment of the impacts of exploration on archaeological & heritage resources

Mitigation Status	Extent	Duration	Intensity	Probability	Significance
Pre mitigation	M - 3	M/H - 4	M - 6	M/H - 4	M – 52
Post mitigation	L/M - 2	L/M - 2	L - 2	L/M - 2	L - 12

7.3.11 Impact on Local Roads/Routes

Exploration projects are usually associated with the movements of heavy trucks and equipment or machinery that use local roads. Heavy vehicles traveling on local roads exert pressure on the roads and may make the roads difficult to use. This will be a concern if maintenance and care is not taken during the exploration phase. The impact would be short-term (during exploration only) and therefore, manageable.

Without any management and or mitigation measures, the impact can be rated as medium and to reduce this rating to low, the measures will need to be effectively implemented. The assessment of this impact is presented in **Table 21**.

Table 21: Assessment of exploration of local services (roads and water)

Mitigation Status	Extent	Duration	Intensity	Probability	Significance



Pre mitigation	M/H - 4	M - 3	M - 6	M - 3	M – 39
Post mitigation	L - 1	L - 1	M/L - 4	M/L -2	L - 12

7.3.12 Social Nuisance: Local Property intrusion and Disturbance/Damage

The presence of some non-resident workers may lead to social annoyance to the EPL area. This could particularly be a concern if they enter or damage National Park Properties. The properties may include fences, vegetation, wildlife, or any properties of economic or cultural value to land users. The unpermitted and unauthorized entry to private property may cause crashes between the affected property (land) owners and the Proponent.

The impact is rated as of medium significance. However, upon mitigation (post-mitigation), the significance will change from a medium to a low rating. The impact is assessed below (**Table 22**).

Table 22: Assessment of the social impact of community property damage or disturbance

Mitigation Status	Extent	Duration	Intensity	Probability	Significance
Pre mitigation	M - 2	M - 3	M - 4	M/H - 3	M – 27
Post mitigation	L - 1	L - 1	M/L - 4	M/L -2	L - 12

7.4 Cumulative Impacts Associated with Proposed Exploration

According to the International Finance Corporation (2013), cumulative impacts are defined as "impacts that result from the successive, incremental, and/or combined effects of an action, project, or activity (collectively referred to in this document as "developments") when added to other existing, planned, and/or reasonably anticipated future impacts".

Like many other exploration projects, some cumulative impacts to which the proposed project and associated activities potentially contribute, are the:



- Impact on road infrastructure: The proposed exploration activity contributes cumulatively to various activities such as farming activities and traveling associated with tourism and local daily routines. The contribution of the proposed project to this cumulative impact is however not considered significant, given the short duration, and spatial extent of the intended mineral exploration activities.
- **Use of water**: While the contribution of this project will not be significant, mitigation measures to reduce water consumption during exploration are essential.

7.5 Mitigations and Recommendations for Rehabilitation

The rehabilitation of explored (disturbed) sites will include but not be limited to the following:

- Backfilling of trenches and or pits in such a way that subsoil is replaced first, and topsoil replaced last.
- Closing off and capping of all exploration drilling boreholes. The boreholes should not only be filled with sand alone, as the wind may scour the sand and re-establish the holes.
- Carrying away all waste generated from the site.
- Transporting all machinery and equipment as well as vehicles to designated offsite storage facilities.



8 RECOMMENDATIONS AND CONCLUSION

8.1 Recommendations

The potential positive and negative impacts of the proposed exploration activities on EPL No. 7763 were identified and assessed and appropriate management and mitigation measures (to negative impacts) were made thereof for implementation by the Proponent, their contractors, and project-related employees.

Mitigation measures for identified issues have been provided in the Environmental Management Plan, for the Proponent to avoid and/or minimize their significant impacts on the environmental and social components. Most of the potential impacts were found to be of medium-rating significance. With effective implementation of the recommended management and mitigation measures, a reduced rating in the significance of adverse impacts is expected from Medium to Low. To maintain the desirable rating, the implementation of management and mitigation measures should be monitored by the Proponent directly, or their Environmental Control Officer (ECO). The monitoring of implementation will not only be done to maintain a low rating but also to ensure that all potential impacts identified in this study and other impacts that might arise during implementation are properly identified in time and addressed right away.

The Environmental Consultant is confident that the potential negative impacts associated with the proposed project activities can be managed and mitigated by the effective implementation of the recommended management and mitigation measures and with more effort and commitment put into monitoring the implementation of these measures.

It is, therefore, recommended that in the case of granting an ECC for this project, the proposed prospecting and exploration activities may be granted an ECC, provided that:

- All the management and mitigation measures provided in the EMP are effectively and progressively implemented.
- All required permits, licenses, and approvals for the proposed activities should be obtained
 as required. These include permits and licenses for land use access agreements to
 explore and ensure compliance with these specific legal requirements.
- The Proponent and all project workers and contractors must comply with the legal requirements governing the project and ensure that all required permits and or approvals are obtained and renewed as stipulated by the issuing authorities.



 Site areas where exploration activities have ceased are rehabilitated, as far as practicable, to their pre-exploration state.

8.2 Conclusion

It is crucial for the proponents and their contractors to effectively implement the recommended management and mitigation measures, to protect the biophysical and social environment throughout the project duration. This would be done to promote environmental sustainability while ensuring a smooth and harmonious existence and purpose of the project activities in the community and environment at large. It is also to ensure that all potential impacts identified in this study and other impacts that might arise during implementation are properly identified in time and addressed accordingly. Lastly, should the ECC be issued, the Proponent will be expected to be compliant with the ECC conditions as well as legal requirements governing mineral exploration and related activities.



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