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REPORT:

SCOPING REPORT PLUS IMPACT ASSESSMENT FOR EXPLORATION ACTIVITIES ON EPL 7973, KHOMAS REGION, NAMIBIA

PROJECT NUMBER: ECC-88-398-REP-09-A

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Votorantim Metals Namibia (Pty) Ltd

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on EPL 7973, Khomas Region, Namibia

Client Company Name: Votorantim Metals Namibia (Pty) Ltd

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EXECUTIVE SUMMARY

Votorantim Metals Namibia (Pty) Ltd (hereafter referred to as "The Proponent") intends to carry out exploring activities on rare and base metals, industrial minerals and precious and semi-precious metals. The proposed project (referred to as "the Project" herein) is located within exploration licence prospecting licence EPL 7973, which is located approximately 95 km southeast of Windhoek.

The proposed Project triggers listed activities in terms of the Environmental Management Act, No. 7 of 2007, and its regulations, No. 30 of 2012. Therefore, an environmental clearance certificate is required. As part of the environmental clearance certificate application, a scoping report with an environmental impact assessment (EIA) has been undertaken to meet the requirements of the Environmental Management Act, No.7 of 2007. This draft scoping report with assessment and the draft environmental management plan (EMP) will be submitted to the competent authority and the public for public review as part of the application process for the environmental clearance certificate.

The proposed activities within EPL 7973 include exploration activities that range from extremely low impact exploration such as remote sensing from satellites to more invasive methods such as extensive close-spaced drilling. Existing tracks shall be used as far as reasonably practicable. If new tracks are required, they will be developed by hand or by use of a bulldozer, terrain dependent.

The exploration activities will commence when the environmental clearance certificate is granted and are expected to continue for at least 3 years. A renewal application may be required to extend the activities for the duration of the exploration licence.

The geology over which the EPL falls mainly consists of the Sinclair group and equivalents and a small section of the Rehoboth Group and associated rocks to the northwestern corner of the EPL. The main rock types are compact sandstone, shale, conglomerate and locally quartzites. The topography of the Project site is relatively flat with some rock outcrops/hills to the sides of the EPL and a smoother area to the central and parts of the EPL. The groundwater vulnerability in this area is considered to be high and groundwater recharge within this area is considered to be low (>0.5 to 1 % of the total average rainfall). The plant diversity (100 to 150 species) for this area is low to medium, with low endemism (2 to 5 species) and the dominant vegetation structure for the EPL is dense shrubland, the vegetation type is highland shrubland and the EPL falls within the Savanna biome. The overall terrestrial diversity for the area is low to moderate compared to other parts of the country.

The following table summarises the outcomes of the impact assessment of the key aspects and the potentially significant impacts that could arise from the exploration activities. The significance rating is provided after the mitigations have been considered.



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Aspect	Potential impact	Significance with mitigation
	Hydrocarbon leaks and spills could enter the	Low (2)
	aquifer causing contamination	
Surface and	Wastewater can contaminate surface and	Low (1)
groundwater	groundwater	
	Waste items and litter can pollute drainage	Low (1)
	channels.	
	Pollution of soil	Low (1)
Soil	Vegetation clearing	Low (1)
3011	Loss of soil quality due to mixing of earth matter,	Low (1)
	trampling and compaction.	
Visual impacts	Visual disturbance and loss of Sense of Place.	Minor (4)
and sense of		
place		
	Conflict with farm owners about access, leaving	Low (1)
Socio-economic	gates open, suspicious movements, loss of	
impacts such as	farming area, etc.	
employment, and	Presence of exploration team could be blamed	Low (1)
land-use	for stock theft and wildlife poaching.	
laria asc	Promotes job creation, skills development, and	Low (Beneficial)
	opportunities for the local economy.	
Noise and	Perceived impact from surveying activities on	Low (1)
vibrations	livestock and humans.	
	Loss or alteration of terrestrial habitats and loss	Low (1)
	of species	
Terrestrial	Residing, slow-moving and nesting organisms can	Low (1)
Ecology and	be disturbed, injured or killed.	
Biodiversity	Alien species and weeds can be introduced to the	Low (1)
	area.	
	Loss of grazing and living organisms	Minor (3)
Heritage, culture,	Potential damage to cultural heritage sites	Minor (4)
history,		
archaeology, and		
palaeontology		



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The only risk to the environment is related to the cumulative impacts as a result of physical disturbance, nuisance of noise and dust and the loss of sense of place, thereby impacting human receptors in the area. Impacts with respect to airborne dust are expected to be limited to vehicular traffic and drilling activities. There will be some release of exhaust fumes from machinery that will impact the immediate vicinity but will be of short duration. All precautions will be taken to prevent damage to heritage sites, as a result of the exploration activities. All other social and environmental receptors were scoped out as significant effects were unlikely and therefore no further assessment was deemed necessary.

The overall potential impact of this proposed Project is not considered significant as it does not exceed recognised levels of acceptable change, nor will it threaten the integrity of the receptors. The assessment is considered to be comprehensive and sufficiently identifies the potential impacts, and it is concluded that no further assessment will be required. The Preliminary EMP provides the necessary mitigations and management measures required to reduce potential impacts to accepted levels.

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TERMS AND ABBREVIATIONS

ABBREVIATIONS	DESCRIPTION	
AIDS	Acquired immunodeficiency syndrome	
AMT	Audio MagnetoTelluric	
BID	Background Information Document	
CITES Convention on International Trade of		
	Endangered Species	
DEA	Directorate of Environmental Affairs	
EC	Environmental Commissioner	
ECC	Environmental Compliance Consultancy	
ECC	Environmental Clearance Certificate	
EIA	Environmental Impact Assessment	
EMA	Environmental Management Act, No.7 of 2007	
EMP	environmental management plan	
EPL	Exclusive Prospecting Licence	
ESIA	Environmental and Social Impact Assessment	
GDP	Gross domestic product	
HIV	Human immunodeficiency virus	
I&APs	Interested and Affected Parties	
IFC	International Finance Corporation	
IUCN	International Union for Conservation of	
	Nature	
MEFT	Ministry of Environment, Forestry and	
	Tourism	
MME	Ministry of Mines and Energy	
NSA	Namibia Statistics Agency	
RAB	Rotary Air Blast	
ТВ	tuberculosis	
WHO	World health organisation	



Votorantim Metals Namibia (Pty) Ltd

1 INTRODUCTION

1.1 COMPANY BACKGROUND

Environmental Compliance Consultancy (ECC) has been retained by Votorantim Metals Namibia (Pty) Ltd (hereafter referred to as "The Proponent") to conduct an environmental and social impact assessment (ESIA) for the mining of rare and base metals, industrial minerals and precious and semi-precious metals in terms of the Environmental Management Act No. 7 of 2007 and its regulations of 2012. An environmental clearance certificate application will be submitted to the Ministry of Environment, Forestry and Tourism (MEFT) for a record of decision.

Votorantim Metals Namibia (Pty) Ltd is a wholly owned subsidiary of Nexa Resources, a Brazilian mining company specializing in zinc, nickel and aluminium. The proposed project (referred to as "the Project" herein) is located within exploration licence prospecting licence EPL 7973 and the proponent proposes to undertake mineral exploration activities on EPL 7973 rare and base metals, industrial minerals and precious and semi-precious metals is located at is approximately 95 km southeast of Windhoek.

The proposed Project area is shown in Figure 1.



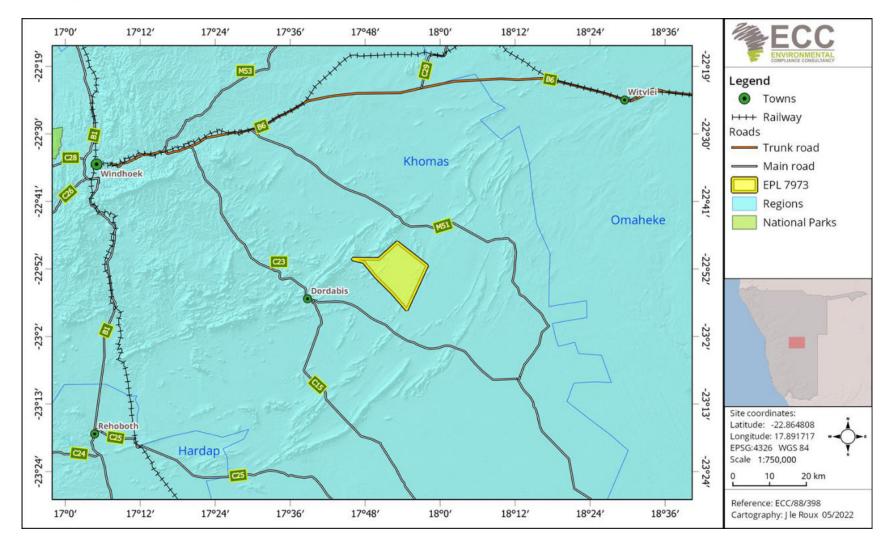


Figure 1 - Locality map of EPL 7973, Khomas Region



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1.2 Purpose of the scoping report

An environmental and social impact assessment (ESIA) has commenced in terms of the requirements of the Environmental Management Act, No.7 of 2007 (EMA 2007) and its regulations. The purpose of this report is to present the findings of the scoping study phase that forms part of the larger ESIA process.

The scoping report summarises the prescribed ESIA process followed; provides information on the baseline biophysical and socioeconomic environments; project description details; outlines the terms of reference for the assessment phase and presents a environmental management plan (EMP), which is provided.

ECC's terms of reference for the assessment is strictly to address potential effects, whether positive or negative and their relative significance, explore alternatives for technical recommendations and identify appropriate mitigation measures.

This report provides information to the public and stakeholders to aid in the decision-making process for the proposed Project. The objectives are to:

- Provide a description of the proposed activity and the site on which the activity is to be undertaken, and the location of the activity on the site;
- Provide a description of the environment that may be affected by the activity;
- Identify the laws and guidelines that have been considered in the assessment and preparation of this report;
- Provide details of the public consultation process;
- Describe the need and desirability of the activity;
- Provide a high level environmental and social impact assessment on feasible alternatives that were considered; and
- Report the assessment findings, identifying the significance of effects, including
- cumulative effects, and effective and feasible mitigation measures.

In addition to the environmental assessment, an EMP (Appendix A) is also required in terms of the Environmental Management Act, No. 7 of 2007. An EMP has been developed to provide a management framework for the planning and implementation of exploration activities. The EMP provides exploration standards and arrangements to ensure that the potential environmental and social impacts are mitigated, prevented and/or minimised as far as reasonably practicable, and that statutory requirements and other legal obligations are fulfilled.

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1.3 Proponent Details

Table 1 - Proponent's details

Contact Person	Contact Details
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Mrs Yvonne Hass	Maerua Mall
(Office Manager)	Windhoek, Namibia

1.4 Environmental Compliance Consultancy

The report has been prepared by Environmental Compliance Consultancy Pty Ltd (ECC) (Reg. No. 2022/0593) on behalf of the Proponent. Authored by ECC employees with no material interest in the report's outcome, ECC maintains independence from the Proponent and has no financial interest in the Project apart from fair remuneration for professional fees. Payment of fees is not contingent on the report's results or any government decision. ECC members or employees are not, and do not intend to be, employed by the Proponent, nor do they hold any shareholding in the Project. Personal views expressed by the writer may not reflect ECC or its client's views. The environmental report's information is based on the best available data and professional judgment at the time of writing. However, please note that environmental conditions can change rapidly, and the accuracy, completeness, or currency of the information cannot be guaranteed. All compliance and regulatory requirements regarding this ESIA report should be forwarded by email or posted to the following address:

Environmental Compliance Consultancy PO BOX 91193 Klein Windhoek, Namibia

Tel: +264 81 669 7608

Email: info@eccenvironmental.com



1.5 ENVIRONMENTAL LEGAL REQUIREMENTS

The Environmental Management Act, No.7 of 2007 stipulates that an environmental clearance certificate is required to undertake listed activities in terms of the Act and its regulations. Listed activities triggered by the Project in terms of the Environmental Management Act, No. 7 of 2007 and its regulations are as follows:

Table 2 - Listed activities triggered by the project

Listed activity	As defined by the Act	Relevance to the project
Mining and quarrying activities	 (3.1) The construction of facilities for any process or activities which require a licence, right, or other forms of authorization, and the renewal of a licence, 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 proposed project has obtained an EPL from MME; now requires an environmental clearance from DEA/MEFT for the search of rare and base metals, industrial minerals and precious and semi-precious metals. The proponent will be undertaking exploration activities on EPL 7973, which will include geochemical surveys, geophysical surveys, RAB, RC, and core drilling.
Waste management, treatment, handling and disposal activities	(2.1) The construction of facilities for waste sites, treatment of waste and disposal of waste.(2.3) The import, processing, use and recycling, temporary storage, transit or export of waste.	 Waste generated which will be mainly solid waste and general waste during the exploration phase will be removed by a skip and will be disposed of at the nearest landfill site. Waste will be recycled, to the extent possible. A portable toilet, long drop hole for a toilet or chemical toilets will be used during exploration activities by the diamond drill crew.

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ENVIRONMENTAL		votorantiin wetais Namibia (Pty) Ltu
Listed activity	As defined by the Act	Relevance to the project
Forestry activities	(4.) The clearance of forest areas, deforestation, aforestation, timber harvesting or any other related activity that requires authorisation in terms of the Forest Act, 2001 (Act No. 12 of 2001) or any other law.	- Limited vegetation clearing may be required for tracks and survey access creation, and possibly for the set-up for survey and drilling teams' field camps. Clearing of large trees will be avoided.
Hazardous	(9.2) Any process or activity which requires a permit,	– Portable toilets, long drop holes for toilets, or chemical
substance	licence, or another form of authorization, or the	toilets will be used during the exploration activities.
treatment,	modification of or changes to existing facilities for any	
handling and	process or activity which requires amendment of an	
storage	existing permit, licence or authorization or which requires a new permit, licence or authorization in terms of a governing the generation or release of emissions, pollution, effluent or waste.	

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2 APPROACH TO THE ASSESSMENT

2.1 Purpose and scope of the assessment

This assessment aims to determine which impacts are likely to be significant; to scope the available data and identify any gaps that need to be filled; to determine the spatial and temporal scope and to identify the assessment methodology.

The scope of the assessment was determined through undertaking a preliminary assessment of the proposed Project against the receiving environment, obtained through a desktop review and available site-specific literature.

2.2 THE ASSESSMENT PROCESS

The ESIA methodology applied to this assessment has been developed using the International Finance Corporation (IFC) standards and models, in particular Performance Standard 1, 'Assessment and management of environmental and social risks and impacts' (International Finance Corporation, 2017) (International Finance Corporation, 2012), which establishes the importance of:

- Integrated assessment to identify the environmental and social impacts, risks, and opportunities of Projects;
- Effective community engagement through disclosure of Project -related information and consultation with local communities on matters that directly affect them and
- The client's management of environmental and social performance throughout the life of the Project

Furthermore, the Namibian Draft Procedures and Guidance for ESIA and EMP (Republic of Namibia, 2008) as well as the international and national best practice; and over 25 years of combined EIA experience, were also drawn upon in the assessment process. This impact assessment is a formal process in which the potential effects of the Project on the biophysical, social, and economic environments are identified, assessed, and reported so that the significance of potential impacts can be taken into account when considering whether to grant approval, consent or support for the proposed Project.



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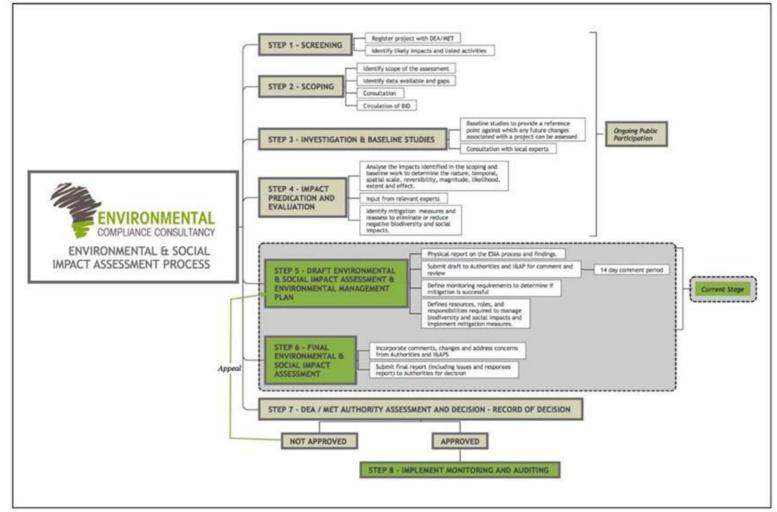


Figure 2 - ESIA Process



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2.3 SCREENING OF THE PROJECT

The first stages in the ESIA process are to register the Project with the DEA / MEFT (completed) and undertake a screening exercise to determine whether it is considered as a listed activity under the Environmental Management Act, No. 7 of 2007 and associated regulations and if significant impacts may arise from the Project. The location, scale, and duration of Project activities will be considered against the receiving environment.

It was concluded that an ESIA (e.g., scoping report and EMP) is required, as the proposed Project is considered as a listed activity and there may be potential for significant impacts to occur.

2.4 SCOPING AND THE ENVIRONMENTAL ASSESSMENT

Where an ESIA is required, the second stage is to scope the assessment. The main aims of this stage are to determine which impacts are likely to be significant (the focus of the assessment); scope the available data and any gaps which need to be filled; determine the spatial and temporal scope; and identify the assessment methodology.

The screening phase of the Project is a preliminary analysis to determine ways in which the Project interact with the biophysical, social, and economic environment. Impacts that are identified as potentially significant during the screening and scoping phases are taken forward for further assessment in the ESIA. The details and outcome of the screening process are discussed further in sections 6 and 7.

Feedback from consultation with the client and stakeholders are also informed in this process.

The following environmental and social topics and subtopics were scoped into the assessment:

SOCIO-ECONOMIC ENVIRONMENT

- Limited goods and services procurement within the local economy.

BIOPHYSICAL ENVIRONMENT

- Dust emissions
- Soil and geology
- Terrestrial ecology
- Terrestrial biodiversity (including fauna and flora)
- Groundwater (potential cumulative impact). Water management suggestions are contained in the EMP.

The following topic was scoped out of the ESIA, as no likely significant impacts are predicted as the proposed Project poses little to no change from the current baseline, therefore are not discussed further in this report.



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2.5 BASELINE STUDIES

Baseline studies are undertaken as part of the scoping stage, which involves collecting all pertinent information from the current status of the receiving environment. This provides a baseline against which changes that occur as a result of the proposed Project can be measured. For the proposed Project, baseline information was obtained through a desktop study, consultation, and engagement with stakeholders (Appendix B), focusing on environmental receptors that could be affected by the proposed Project, verified through site-specific information. The baseline information is covered in Section 5.

2.6 Public consultation

Public participation and consultation are a requirement as stipulated in the Environmental Impact Assessment Regulations (Regulations 21 and 23) of the EMA, No.7 of 2007, for a project undertaking a listed activity and requires an environmental clearance certificate. Consultation is a compulsory and critical component of the ESIA process for achieving transparent decision-making and can provide many benefits. Consultation is ongoing during the ESIA process. The objectives of the public participation and consultation process are to:

- Provide information on the Project, introducing the overall project concept and planning in the form of a background information document (BID)
- Determine the relevant government, regional and local regulating authorities
- Listen to and understand community issues, record concerns and guestions
- Explain the process of the ESIA and timeframes involved and establish a platform for ongoing consultation

2.6.1 IDENTIFICATION OF KEY STAKEHOLDERS AND INTERESTED AND AFFECTED PARTIES

A stakeholder mapping exercise was undertaken to identify individuals or groups of stakeholders, and the method in which they will be engaged during the ESIA process.

Stakeholders were approached through direct communication (letters and phone calls), the national press, or directly by email. A summarized list of stakeholders for this project is given below:

- The general public with an interest in the Project;
- Ministry of Environment, Forestry and Tourism (MEFT);
- Ministry of Mines and Energy (MME);
- Khomas Regional Council
- Farm owners

The records of the public consultation process in the form of a summary report will provide a list of interested and affected parties (I&AP's), evidence of consultation, including minutes of public



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meetings, advertisements in national newspapers, and a summary of the comments or questions raised by the public.

2.6.2 NON-TECHNICAL SUMMARY

The Background Information Document (BID) presents a high-level description of the proposed Project; sets out the ESIA process and when and how consultation is undertaken; and provides contact details for further Project -specific inquiries to all registered I&APs. The BID was distributed to registered I&APs and the BID can be found in Appendix B.

2.6.3 NEWSPAPERS AND ADVERTISMENTS

Notices regarding the proposed Project and associated activities were circulated in three newspapers namely the 'Republikein, Sun, and Allgemeine Zeitung' on the 12 and 20 July 2022 (see Appendix C). The purpose of this was to commence the consultation process by informing the public about the Project and enabling I&APs to register any comments and interest raised for the Project.

2.6.4 SITE NOTICES

A site notice ensures neighbouring properties and stakeholders are made aware of the proposed Project. The notice was set up at the boundary of the EPL as illustrated in Appendix C.

2.6.5 PUBLIC MEETING

In terms of Section 22 of the Environmental Management Act, No. 7 of 2007 and its regulations, for the purpose of registering I&APs. A public meeting is not a requirement during the public consultation process for all proposed Project. As a result, and based on the public consultation feedback and comments, a public meeting was not deemed necessary for this Project.

2.6.6 SUMMARY OF ISSUES RAISED

The I&APs were encouraged to provide constructive input during the consultation periods. Matters of concern raised during the initial round of consultation are presented in Appendix C.

The public is further being provided an opportunity to send any comments on the draft scoping report and the EMP to be included and addressed, where applicable, in the final documentation.

2.7 DRAFT EIA AND EMP

This report and EMP for the Project's environmental clearance includes an assessment of the biophysical and social environment, which satisfies the requirements of Step 5 (Figure 2).

The EIA report documents the findings of the assessment process, provides stakeholders with the opportunity to comment and continue to engage in consultation and forms part of the environmental clearance application. The EMP provides measures to manage the environmental



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and social impacts of the proposed Project and outlines specific roles and responsibilities to fulfil the plan.

This EIA report focuses on the significant impacts that may arise from the proposed Project as described in Step 4 (Figure 2). These impacts are discussed in Chapter 7.

2.8 FINAL EIA AND EMP

The final EIA report and associated appendices will be available to all stakeholders on the ECC website www.eccenvironmental.com and MEFT portal. All I&APs will be informed via email.

The EIA report and appendices are formally submitted to the Office of the Environmental Commissioner, DEA department as part of the application for an environmental clearance certificate.

2.9 AUTHORITY ASSESSMENT AND DECISION MAKING

The Environmental Commissioner in consultation with other relevant authorities will assess if the findings of the EIA presented in the EIA report is acceptable. If deemed acceptable, the Environmental Commissioner will revert to the Proponent with a record of decision and any recommendations.

2.10 Monitoring and auditing

In addition to the EMP being implemented by the Proponent, a monitoring strategy and audit procedure will be determined by the Proponent and competent authority. This will ensure key environmental receptors are monitored over time to establish any significant changes from the baseline environmental conditions caused by Project activities.



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3 REVIEW OF THE LEGAL ENVIRONMENT

As stated in Section 1, an environmental clearance certificate is required for any activity listed in the Government Notice No. 29 of 2012 of the EMA 2007. The Project area is located outside of any protected areas or heritage listed areas.

A thorough review of relevant legislation has been conducted for the proposed Project. Table 3 below identifies relevant legal requirements specific to the Project. Table 4 provides the national policies and plan and Table 5 specifies permits relevant for the Project. This chapter outlines the regulatory framework applicable to the proposed Project.



3.1 NATIONAL REGULATORY FRAMEWORK

Table 3 - Details of the regulatory framework as it applied to the proposed Project

National Regulatory	Summary	Applicability to the Project
Regime		
Constitution of the Republic	The constitution defines the country's position in	The Proponent is committed to the sustainable use
of Namibia (1990)	relation to sustainable development and	of the environment, and has aligned its corporate
	environmental management.	mission, vision, and objectives within the ambit of
	The constitution refers that the State shall actively	the Constitution of the Republic of Namibia (1990).
	promote and maintain the welfare of the people by	
	adopting policies aimed at the following:	
	"Maintenance of ecosystems, essential ecological	
	processes and biological diversity of Namibia, and	
	the utilisation of living, natural resources on a	
	sustainable basis for the benefit of all Namibians,	
	both present, and future."	
Minerals (Prospecting and	The Act provides for the granting of various licences	Exclusive Prospecting Licence EPL 7973 was issued
Mining) Act No. 33 of 1992	related to mining and exploration.	to the Proponent in September 2020 and is valid for
	Section 50 (i) requires: "An environmental impact	a period of 3 years. The proposed prospecting
	assessment indicating the extent of any pollution of	activity on EPL 7973 requires an EIA to be carried out,
	the environment before any prospecting operations	as it triggers listed activities as defined in
	or mining operations are being carried out, and an	Government notice 29 in the Environmental
	estimate of any pollution, if any, likely to be caused	Management Act 2007.
	by such prospecting operations or mining	
	operations."	Prospecting activities in EPL 7973 shall not
		commence until an Environmental Clearance
	The Act sets out the requirements associated with	Certificate has been issued in accordance with the
	licence terms and conditions, such that the holder	provisions of the Environmental Management Act
	of a mineral licence shall comply with.	2007.

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National Regulatory	Summary	Applicability to the Project
Regime		
	The Act also contains relevant provisions for pollution control related to mining activities and land access agreements and provides provisions that mineral licence holders are liable for any damage to land, water, plant, or animal life, caused by spilling or pollution, and must take all such steps as may be necessary to remedy such spilling, pollution, loss, or damage, at its own costs.	The Project shall be compliant with Section 76 of the Act with regard to records, maps, plans and financial statements, information, reports and returns submitted.
Environmental Management Act, 2007 (Act No. 7 of 2007) and its regulations (2012), including	The Act aims to promote sustainable management of the environment and the use of natural resources. The Act requires certain activities to obtain an environmental clearance certificate prior	This environmental scoping report documents the findings of the scoping phase of the environmental assessment undertaken for the proposed Project.
the Environmental Impact Assessment Regulation, 2007	to Project development.	The process will be undertaken in line with the requirements under the Act and its regulations.
(No. 30 of 2011)	The Act states that an EIA should be undertaken and submitted as part of the environmental clearance certificate application process.	Prospecting activities on EPL 7973 shall not commence until an Environmental Clearance Certificate has been issued in accordance with the provisions of the Environmental Management Act
	The MEFT is responsible for the protection and management of Namibia's natural environment. The Department of Environmental Affairs, under the MEFT, is responsible for the administration of the EIA process.	2007.
Hazardous Substances Ordinance, No. 14 of 1974	This Ordinance provides for the control of toxic substances and can be applied in conjunction with the Atmospheric Pollution Prevention Ordinance, No. 11 of 1976.	The planned Project will involve the handling and onboard storage of hazardous substances such as fuels, reagents, and industrial chemicals.



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National Regulatory Regime	Summary	Applicability to the Project
	This applies to the manufacture, sale, use, disposal, and dumping of hazardous substances, as well as their import and export.	
Labour Act, No. 11 of 2007	The Labour Act, No. 11 of 2007 (Regulations relating to the Occupational Health & Safety provisions of Employees at Work, promulgated in terms of Section 101 of the Labour Act, No. 6 of 1992 - GN156, GG 1617 of 1 August 1997)	The Project shall adhere to all labour provisions and guidelines, as enshrined in the Labour Act. The Project shall also develop and implement a comprehensive occupational health and safety plan to ensure adequate protection for its personnel throughout the Project lifecycle.
Petroleum Products and	Provides provision for the Minister to regulate the	The planned Project will involve the handling and
Energy Amendment Act, No.3	cleaning up of petroleum product spills, leaks	storage of hazardous substances such as fuels,
of 2000	and related incidents. The Proponent is required to	reagents, and industrial chemicals.
	carry all costs associated with such incidents.	

3.2 NATIONAL POLICIES AND PLANS

Table 4 - National policies and plans applicable to the proposed Project

Policy or plan	Description	Relevance to the r Project
Vision 2030	Vision 2030 sets out the nation's development targets	The proposed Project shall aim to meet the
	and strategies to achieve its national objectives.	objectives of Vision 2030 and shall contribute
		to the overall development of the country
	Vision 2030 states that the overall goal is to improve	through continued employment
	the quality of life of the Namibian people aligned with	opportunities and ongoing contributions to
	the developed world.	the gross domestic product (GDP).
Fifth National Development Plan	The NDP5 is the fifth in a series of seven five-year	The planned Project supports meeting the
(NDP5)	national development plans that outline the	objectives of the NDP5 through creating
	objectives and aspirations of Namibia's long-term	opportunities for continued employment.
	vision.	



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Policy or plan	Description	Relevance to the r Project
	The NDP5 pillars are economic progression, social transformation, environmental sustainability, and good governance.	
The Harambee Prosperity Plan II (2021 – 2025)	Second Pillar: Economic advancement – ensuring increasing productivity of priority key sectors (including mining) and the development of additional engines of growth, such as new employment opportunities.	The Project will contribute to the continued advancement of the mining industry and create an additional employment generation engine within the regional and national landscape.
Namibia's Green Plan, 1992	Namibian has developed a 12-point plan for integrated sustainable environmental management to ensure a safe and healthy environment and to maintain a viable economy. Clause 2 (f) makes specific mention to guidelines related to Mining and Sustainable Development.	Guidelines as best practise to be adhered too during operational activities.
Minerals Policy	The Minerals Policy was adopted in 2002 and sets guiding principles and direction for the development of the Namibian mining sector, while communicating the values of the Namibian people. The policy strives to create an enabling environment for local and foreign investments in the mining sector and seeks to maximise the benefits for the Namibian	The planned Project conforms to the Policy, which has been considered through the ESIA process and the production of this report. The Proponent intends to continue to support local spending and procurement.
	people from the mining sector, while encouraging local participation. The objectives of the Minerals Policy are in line with the objectives of the Fifth National Development Plan that include reduction of poverty, employment creation, and economic empowerment in Namibia.	The Project will comply with the general guidelines of the Policy through the adoption of various legal mechanisms to manage all aspects of the environment effectively and sustainably from the start. The ESIA is one such mechanism to ensure environmental integrity throughout the planned Project's lifecycle.



Table 5 - Specific permits and licence requirements for the proposed Project

Permit or licence	Act or Regulation	Related activities requiring a permit	Relevant Authority
Environmental clearance certificate	Environmental Management Act, No 7 of 2007	Required for all listed activities shown in Table 2. Requires issuance of Environmental Clearance Certificate by the Environmental Commissioner.	and Tourism (MEFT)
Exclusive Prospecting Licence	Section 90 (2) (A) of the Minerals Act, No.33 of 1992	Written permission from the mining commissioner in the form of an Exclusive Prospecting Licence (EPL 7973) has been issued to date.	(MME)



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4 PROJECT DESCRIPTION

4.1 NEED FOR THE PROJECT

The mining sector in Namibia significantly contributes to the country's Gross Domestic Product (GDP), government tax receipts and export revenues. For this reason, exploration activities are encouraged in Namibia and the vision of the Minerals Policy being to "further attract investment and enable the private sector to take the lead in exploration, mining, mineral beneficiation and marketing" supports mineral exploration and development.

The proposed Project is in line with this vision and has the potential to create employment in local communities in the Hardap Region. In the event that exploration activities are successful, and a resource can be defined, with commercially viable mineral concentrations, exploration operations can result in socio-economic development in the area.

4.2 ALTERNATIVES CONSIDERED

In terms of the Environmental Management Act, No. 7 of 2007 and its regulations, alternatives considered should be analyzed and presented in the scoping assessment and EIA report. This requirement ensures that during the design evolution and decision-making process, potential environmental impacts, costs, and technical feasibility have been considered, which leads to the best option(s) being identified.

Exploration activities range from extremely low impact exploration such as remote sensing from satellites to more invasive methods such as extensive close-spaced drilling. The methods used shall be determined, based on the exploration programme, which is further designed once more information and data is obtained. At this stage of the Project, the exploration activities are yet to be finalized and therefore a range of options remain. Once the exploration programme is further defined, the most suitable options and methods shall be identified to ensure the impacts on the environment and society are minimized.

4.2.1 NO-GO ALTERNATIVES

Should exploration activities within EPL 7973 not take place, the anticipated environmental impacts from exploration activities would not occur, however, the social and economic benefits associated with the Project would also not materialize.

There would not be an opportunity to define resources within the Project area, which would be a missed opportunity for geological mapping and data collection that typically adds to regional knowledge of Namibia's mineral wealth and, if found to be viable for mining, would benefit the Namibian economy.

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4.3 EXPLORATION METHODOLOGY

All geological and geophysical work will be conducted by contractors. The schedule of activities is presented in Table 6.

Table 6 - Exploration Schedule

Phase	Date	Activity Description
Phase 1: 2022	Field inspection	Non-invasive ground
	commencement date	Remoting sense analysis
	unknown, desktop work	done for target prioritization
	commenced 2022	
Phase 2: 2023	Actual commencement date	Geological mapping, followed
	unknown: During 2023.	by soil sampling in systematic
		grids. If results are favourable
		subsequent exploration will
		continue (diamond drilling).

The exploration activities on EPL 7973 will include the following: geochemical surveys, geophysical surveys and core drilling. Details of these methods are described below. Ground-based exploration techniques are inevitable in the search of base, rare and precious metals. Data obtained by remote-sensing data are also used to select target areas.

Diamond drilling and possible Rotary Air Blast (RAB) drilling may occur, and the number of holes and aerial extent will be determined by the geochemical and geophysical anomalies obtained. AMT (Audio MagnetoTelluric), IP and magnetic ground surveys shall be undertaken to measure the chargeability, conductivity, and magnetic susceptibility of the rocks.

Existing tracks shall be used as far as reasonably practicable. In the event that new tracks are required, they will be developed by hand or by use of a bulldozer, terrain dependent. Vegetation clearing will be limited to clearing for access tracks and site camps, should additional areas be cleared for exploration activities the Forest Act, No. 12 of 2001 and its regulations will be complied with (the relevant forestry permits will be applied for if required). Any established or large trees or specially protected plant species shall not be removed, and access tracks will be routed to avoid these wherever possible and permits will be obtained as necessary.

4.3.1 EXPLORATION SCHEDULE

The exploration activities are executed and managed from the Votorantim Exploration Office in Windhoek Field exploration activities, using techniques as discussed above, are anticipated to be carried out over the licence validity period. Remote sensing studies and planning phases for the prospecting programme will require 2-6 months. Geochemical sampling will be undertaken



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concurrently with geological mapping for approximately 2-6 months. Geophysical surveys will then be carried out over a period of about two (2) months after which the Project will advance to reverse circulation or core drilling.

The duration of drilling programs is variable, and usually depends on the information that is gained from drilling. Applications for the environmental clearance certificate, along with all required permits will be submitted during this period should a renewal of the EPL be required.

4.3.2 EQUIPMENT AND MATERIALS

During the exploration phase double and single cab vehicles will be used to transport workers to, from and around the site. Field activities will be organized from Windhoek Contractor's camp infrastructure includes tents and chemical toilets, which would be set up on site temporarily if agreed to by the landowner. A drill rig (track-mounted) will be brought to site for core drilling, along with a water truck and supporting equipment (rods truck, water and fuel bowsers, and RC compressor) for use during drilling. Drilling equipment, diesel fuel and consumables shall be brought to the exploration site to support exploration activities when needed.

4.3.3 POWER SUPPLY

The individual contractors will be responsible to supply their own energy needs throughout the duration of their stay within the field camps. The Proponent prefers the use of solar panels and small-scale generators.

4.3.4 WATER SUPPLY

Water will be required for various uses including human consumption during the planned exploration activities and to support any of the exploration activities such as diamond drilling.

No water will be needed for the first stage of exploration (i.e., soil sampling), 1m³/day water will be required for geophysical surveys in the second stage of exploration and approximately a volume of 30m³ / day of water may be required for diamond drilling in the third stage of exploration.

Water demand per day for the exploration Project is broken down into two usage categories.

These are:

- Water for domestic use within field camps: 1m³ per day; and
- Water for exploration activities (drilling): 30m³.

Water can be sourced from two sources. These are:

SOURCE 1: Potable water will be brought to the site. During drilling operations, water shall be used, recirculated, and stored in lined collections ponds. If deemed clean and suitable will be discharged to the environment for evaporation or if not suitable for discharge will be transported to a local (insert location) and suitable waste facility for safe disposal.



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SOURCE 2: Supplied directly from farmer's boreholes with their permission and compensation. Alternatively, if a demand for water arises and where many holes are to be drilled in an area, then a borehole may be drilled. In this case the required water borehole permits, and abstraction permit shall be obtained from the MAWLR.

4.3.5 WORKERS AND ACCOMMODATION

Four to possible job opportunities are foreseen during the exploration phase and workers will be sourced from the nearest towns such as Windhoek / Dordabis. The workers will be deployed at various stages of exploration including soil sampling, geological mapping, geophysical surveys, and drilling operations.

It is envisaged that for most of the exploration programme workers will reside in Windhoek and be transported to and from the site. The Proponent will provide transport. However, during the latter part of the prospecting (drilling) workers may be required to stay at the exploration site in campsites. The Proponent shall provide suitable living facilities during this period.

Should the Proponent consider setting up camps for the exploration team on-site, precaution and safe use of flammable items should be adhered to. Although fire is unlikely and probably rarely caused by the residing exploration team, there is a growing concern from farmers/ landowners regarding the occurrences of an uncontrolled veld fire. In recent years, several farmers have suffered severe losses due to a series of devastating veld fires that occurred, losing hectares of grasslands and cattle consisting of and sheep.

Mitigation measures have been included in the EMP, which shall be ensured and utilized by the Proponent. Accommodation options for exploration personnel on-site should always be done in consultation with the affected landowner and captured within the land access agreement.

4.3.6 WASTE MANAGEMENT

Waste produced on-site will include solid waste such as packaging material and field camps household waste. The solid residue remaining from wastewater will be buried in the soil if not toxic. Hazardous waste if any, such as (hydrocarbon contaminated soil, etc.) will be disposed of at the Walvis Bay municipal landfill site. The drill sludge is disposed of at the Rehoboth municipal waste disposal site. The Proponent should ensure waste is collected in categorized bins and that the waste hierarchy of (reduce, reuse, and recycle) is practiced as practically as possible.

4.3.7 WASTEWATER EFFLUENT

Wastewater will be diverted into a lined sump to evaporate. Wastewater (e.g., water with drill additives) used during drilling is recycled, contained and allowed to evaporate after use. Sewerage may as well, be produced on site and in the case of provision of the mobile toilets to be used on



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site, sewerage generated shall be managed by the toilet contractor. Wastewater that is discharged into the environment must comply with wastewater discharge specifications.

4.3.8 REHABILITATION

Once exploration activities are completed the areas shall be rehabilitated to a condition as close to the original state as far as possible. Rehabilitation shall be determined during the exploration programme and shall be agreed with the landowners and authorities as per legislation (discussed in Section 3). Before and after photographs will be used to monitor rehabilitation success.

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5 ENVIRONMENT AND SOCIAL BASELINE

A detailed environmental and socio-economic baseline assessment of the Project is provided in this report. Baseline studies aim to assess possible Project impacts (positive, negative and cumulative), thus ensuring input into the Project designs, which avoid, reduce or mitigate the potentially adverse environmental and social risks. This section provides an overview of the existing biophysical environment through the analysis of the available baseline data regarding the receiving environment. Desktop studies, followed by site verification on the national database are undertaken as part of the scoping process to get information about the current status of the receiving environment. This provides a baseline where changes that occur as a result of the proposed Project can be measured.

5.1 BASELINE DATA COLLECTION

Initial baseline studies relevant to the Project formed part of the initial environmental assessment conducted for the EPL on which the Project is situated. As part of this assessment, the baseline was studied in detail, with inputs from specialist studies further discussed as part of the environmental and social impact assessment process.

5.2 LAND USE

EPL 7973 is situated to the southeast of Windhoek in the Khomas region. In contrast to most of Namibia's other regions, agriculture is less prominent in the Khomas Region where the majority of people are urbanized. Guest farms and other tourism-related economic activities are also common in the Khomas Region, mainly as a result of its strategic location close to Windhoek and the Hosea Kutako International Airport shown in Figure 3.

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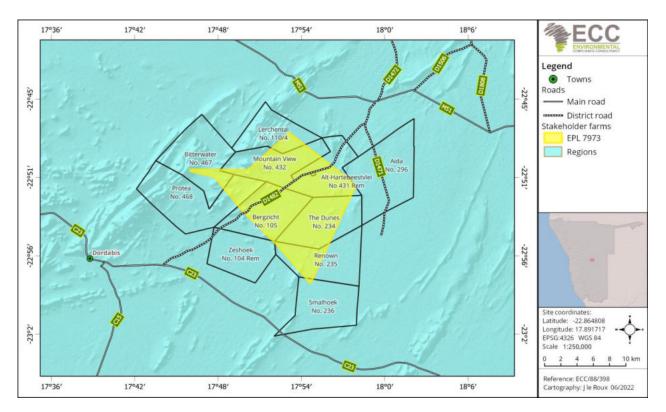


Figure 3 - Stakeholder map

5.3 CLIMATE

EPL 7973 is situated to the southeast of Windhoek in the Khomas Region, Namibia. The climatic conditions characterising the Project are mild summers and cool winters with the mean temperatures between 19°C and 20°C, mean maximum temperatures ranging between 22°C and 33°C and mean minimum temperatures ranging between 3°C to 19°C. The hottest months of the year are between November and January and the coolest months are in June and July (Bubenzer, 2002 & meteoblue, 2022) as shown in Figure 4.

The most humid months of the year have a humidity of approximately 70% RH, and the driest months have a humidity of approximately 10% RH. The average rainfall in this area during the year is between 250 to 350 mm and rainfall events are limited to the summer months, mainly between December and March. Potential evaporation is between 3000 and 3200 mm per year (Bubenzer, 2002) as shown in Figure 4.

The site has wind speeds between 0 and 38 km/h, where the months of May to October are known to have the strongest winds. Wind can occur any time of the day and the most predominant wind directions for this area are N and NNW (Figure 5) (meteoblue, 2022).

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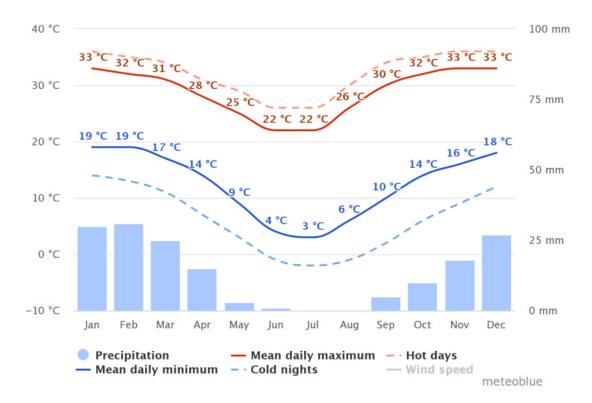


Figure 4 - Climate of the area



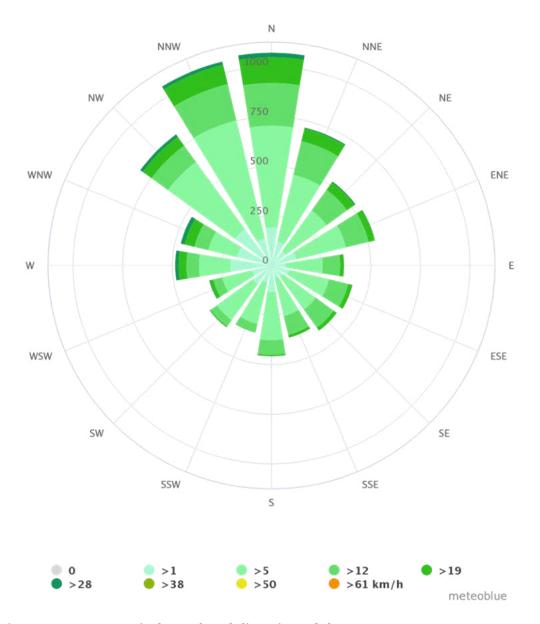


Figure 5 - Average windspeed and direction of the area



5.4 Soil, Geology and Topography

Namibia can be divided into two broad geological provinces, one covering the western parts and the other in the east. The western parts consist of a variety of geological formations of different ages and compositions and formed under very diverse environmental conditions – some were formed in the depths of primaeval oceans, others as a result of the movement of the earth's crust or because of collisions or volcanic eruptions. Most of these formations are exposed in the west as rugged landscapes of mountains, hills, valleys and plains with sparse vegetation, providing an interesting insight into Namibia's geological past.

The geology over which the EPL falls mainly consists of the Sinclair group and equivalents and a small section of the Rehoboth Group and associated rocks to the northwestern corner of the EPL. The main rock types are compact sandstone, shale, conglomerate and locally quartzites. The Sinclair Group is part of the Namaqua Metamorphic Complex (Bubenzer, 2002) as shown in Figure 6.

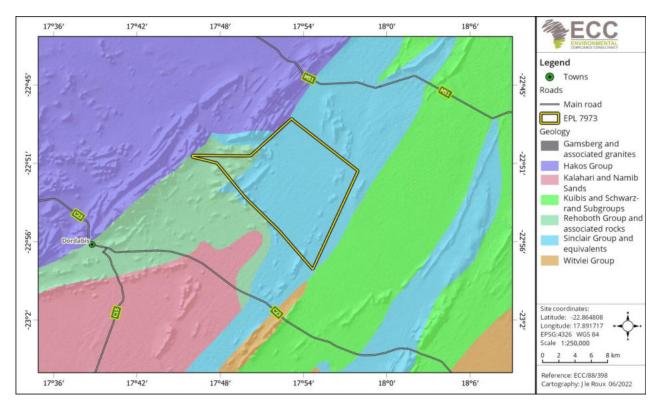


Figure 6 - Geology of the area

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The topography of the Project site is relatively flat with some rock outcrops/hills to the sides of the EPL and a smoother area to the central and parts of the EPL. The elevation of the EPL varies from about 1580 m above sea level (hills) to about 1440 m above sea level as shown in Figure 7.

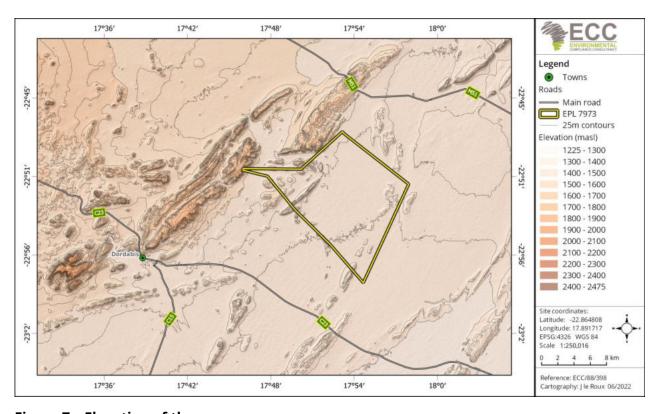


Figure 7 - Elevation of the area

The EPL area is largely covered by eutric Regosols and a smaller section of rock outcrops (Figure 8) (Bubenzer, 2002). Namibian soils vary a great deal, variations occur on a broad scale but there is even a great deal of variability at a local level.

The first part of the soil name denotes soil properties. Eutric soils are fertile with high base saturation. The second name reflects the conditions and processes which have led to the formation of the soils (Mendelsohn et al., 2002).

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The second name reflects the conditions and processes which have led to the formation of the soils (Mendelsohn et al., 2002). Regosols are medium to fine-textured soils of actively eroding landscapes. These soils are not as shallow as Leptosols but never reach depths of more than 50 cm. This type of soil cannot provide vegetation with sufficient minerals or water (Mendelsohn et al., 2002).

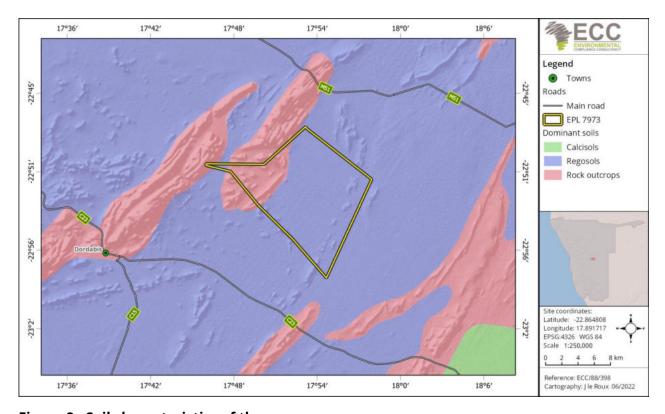


Figure 8 - Soil characteristics of the area



5.5 Hydrogeology

According to the Namibian Monitoring Information System & Hydrological Map of Namibia (https://na-mis.com/), the site falls over a fractured, fissured or Karstified aquifer, with moderate groundwater potential. The groundwater vulnerability in this area is considered to be high and groundwater recharge within this area is considered to be low (>0.5 to 1 % of the total average rainfall). Groundwater in this area is generally of excellent quality (Group A and B) (to the western side) and poor and not suitable for human consumption (Group D) (to the eastern side, closer to the Olifants river) as shown in Figure 9.

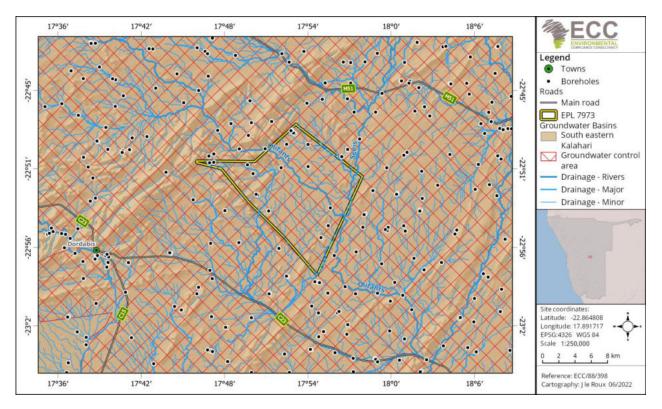


Figure 9 - Hydrology of the area

5.6 BIODIVERSITY BASELINE

5.6.1 FLORA

Vegetation in Namibia is strongly influenced by rainfall. The plant diversity and tallest trees are most lush in the north-eastern parts of the country and contrast sparser and shorter to the west and south of the country. This gradient is not simple as factors such as soil types, landscape and human impacts may also influence the vegetation. The plant diversity (100 to 150 species) for this area is low to medium, with low endemism (2 to 5 species) and the dominant vegetation structure for the EPL is dense shrubland, the vegetation type is highland shrubland and the EPL falls within the Savanna biome (Mendelsohn et al. 2002) as shown in Figure 10.

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In this part of Namibia the following tree and shrub species are either protected under national legislation, endemic, near-endemic or listed in the CITES appendices: *Aloe littoralis* (Nature Conservation Ordinance and CITES II), *Ficus Cordata* (Forestry protected), *Obetia carruthersiana* (near-endemic), *Boscia albitrunca* (Forestry protected), *Albizia anthelmintica* (Forestry protected), *Vachellia erioloba* (Forestry protected), *Faidherbia albida* (Forestry protected), *Parkinsonia africana* (Forestry protected), *Ziziphus mucronata* (Forestry protected), and *Manuleopsis dinteri* (endemic) (Mannheimer & Curtis, 2009).

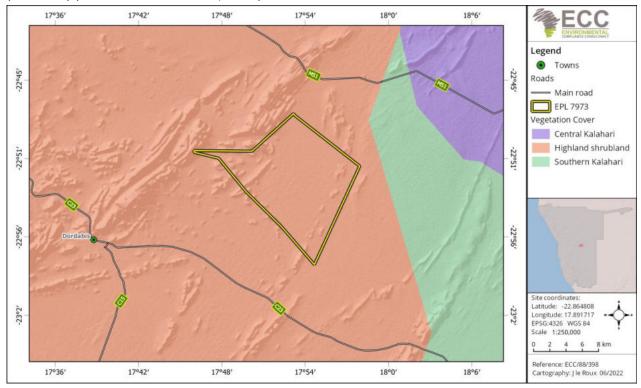


Figure 10 - Vegetation of the area

5.6.2 FAUNA

The overall terrestrial diversity for the area is low to moderate compared to other parts of the country. The area within and surrounding the EPL has a moderate to high bird diversity status of between about 141 and 200 species, with moderate bird endemism (between 4 and 5 species) and represents an area with moderate mammal diversity of between 61 to 75 (1 to 2 of these species are endemic). Three large carnivore species have been recorded in the project area (Bubenzer, 2002, IUCN, 2021, Mendelsohn et al., 2002, Oberprieler and Cillié, 2008 & Stuart and Stuart, 2015).

Furthermore, the reptile diversity within this area is moderate to high with between 61 and 70 species, 5-8 endemic species; the number of observed lizard species for this area is between 28 to 31 of which 1 to 2 species are endemic and the different snakes recorded are between 30 to 34 species (5 to 6 endemic species). This area also has a frog diversity of between 8 and 11 species, and also a moderate scorpion diversity (12 to 13 species). (Bubenzer, 2002 & Mendelsohn et al., 2002).



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Most bird species in Namibia fall under Schedule 4: Protected Game within the Namibian Conservation Ordinance No. 4 of 1975, except for the following excluded species: Weavers, Sparrows, Mousebirds, Redheaded Quela, Bulbul, and Pied crow as well as 19 huntable game bird species identified in Schedule 6 of the Nature Conservation Ordinance (Nature Conservation Ordinance No. 4 of 1975).

A large number of bird species are highly migratory and pass-through Namibia sporadically, thus some of the species might be very rare to identify during the year, nonetheless could potentially be spotted within the EPL boundaries periodically. Water on-site during the rainy season might attract various water birds (either resident or migratory).

In this part of Namibia, approximately 90 bird species are either additionally protected under the regulations of the Exploitation of Marine Resources Act No. 241 of 2001, section 18 or listed within the CITES appendices. Some of these species might potentially be found or encountered near or within EPL boundaries during a given year (depending on the season and migratory patterns).

Various protected or threatened mammal species may occur on the project site of which one is classified as near threatened (Brown Hyena) and four are classified as vulnerable (Cheetah, Leopard, Pangolin, Black-footed cat) according to the IUCN red list of threatened species.

Furthermore, all tortoise species, rock monitors and pythons (dwarf and rock pythons) that might potentially be encountered within the EPL boundaries are protected under the Nature Conservation Ordinance No. 4 of 1975.

5.7 SOCIAL AND SOCIO-ECONOMIC BASELINE

The Khomas Region occupies 4.5% of the surface land area of Namibia and accommodates the largest percentage (18%) of the national population total in 2016 (NSA, 2017). The population density in the Khomas Region is 4.2 times higher (12 persons per km2) than the national figure; the projected total population for the Khomas Region was 415,780 in 2016. In the Khomas Region 95% of all people live in an urban area in 2016, Oshiwambo is the most spoken language (41% of all households), the average household size is 3.5 people, and the literacy rate is 97% for people older than 15. Living in an urban environment implies better living conditions – in the Khomas Region 100% of all households have access to safe water, only 25% have no toilet facility, 64% have electricity for lighting and only 7% of the population depend on open fires to prepare food (NSA, 2017).

The urban population pyramid for Namibia shows a very clear dominance of the age group 20 – 35 as well as for infants (0 – 4 years of age). As the majority of people in the Khomas Region are living in an urban area, the dominance of Windhoek is further apparent – the population of the Khomas Region is young, most of them within the child-bearing age range. The urban population



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pyramid for Namibia contrasts sharply with the one for the rural population. The base of the pyramid reflects people younger than 25 and forms the majority of the total population – meaning that most people are young Namibians (NSA, 2017)

Namibia is divided into 14 regions, subdivided into 121 constituencies. Khomas Region is divided into ten constituencies. Each region has a regional council, elected during regional elections per constituency. Towns are governed by local authorities, in the form of municipalities.

Windhoek is the national capital and also the capital of the Khomas Region. As the country's capital Windhoek hosts many of the national head offices as well as the head offices of the Khomas regional council. Windhoek is governed by a local authority in the form of a city council.

The dominance of Windhoek as a place of residence in the Khomas Region is apparent – all other urban places in the Khomas Region are classified as settlements – the lowest order of governed populated places in Namibia. Places such as Baumgartsbrunn, Groot Aub, Seeis and Dordabis are managed directly by the central authority.

5.7.1 GOVERNANCE

Since its independence in 1990, Namibia is led by a democratically elected and stable government. The country ranked top 5 out of 54 African countries in the Ibrahim Index of African Governance in 2015 for the indicators including the quality of governance and the government's ability to support human development; sustainable economic opportunity; rule of law and human rights; and development of smart information and communication technology to access information for socio-economic growth (National Planning Commission, 2017).

As a result of sound governance and stable macroeconomic management, Namibia has experienced rapid socio-economic development. Namibia has achieved the level of 'medium human development and ranks 125th on the Human Development Index out of 188 countries (National Planning Commission, 2017).

5.7.2 POPULATION AND GROWTH RATE

Namibia is one of the least densely populated countries in the world (2.8 persons per km2). Vast areas of Namibia are without people, in contrast to areas of dense concentrations, such as the central-north and along the Kavango River. Windhoek, the capital, is not only the main urban area with the largest population, but the concentration of private and public head offices attracts Namibians from all parts of the country in search of a better life.

The national population growth rate is estimated at less than 2%, which is lower than that of most African countries. Namibia's population is young – although 57% falls into the age group 15 to 59, 37% of the total population is younger than 15 (Namibia Statistics Agency, 2017). Since 2005, there has been a steady improvement in life expectancy, which is currently estimated at 65 years. In 2018, it was estimated that 50% of all Namibians are urbanised, i.e., living in an urban settlement (retrieved from www.worldpopulationreview.com). The last national census was conducted in



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2011 and counted 2.1 million Namibians (Namibia Statistics Agency, 2011). An intercensal demographic survey was conducted in 2016 and estimated the total population at 2.3 million (Namibia Statistics Agency, 2017).

It is predicted that urbanisation will continue, with an increase from 43% of the population living in urban areas in 2011, to 67% in 2041. The populations of the Khomas and Erongo regions are projected to increase the most, with over a third of Namibia's population expected to live in these two regions (Namibia Statistics Agency, 2011).

5.7.3 EMPLOYMENT

In 2018, 53.4% of all working Namibians were employed in the private sector and 21.5% by the state. State-owned enterprises employ 7.6% of Namibians and private individuals 16.6%. Wages and salaries represented the main income source of 47.4% of households in Namibia. Agriculture (combined with forestry and fishing) is the economic sector with the most employees – 23% of all employed persons in Namibia work in this sector. Agriculture is also the sector that employs the most informal workers in Namibia, calculated at 87.6%. Wages of employees in the agriculture sector are lower than all other sectors except for workers in accommodation and food services and domestic work in private households (NSA, 2019).

Low education levels affect employability and prevent many households from earning a decent income. Of all people employed in Namibia, 63.5% are not higher qualified than junior secondary level (Grade 10 and lower). In total 11.8% of all people employed had no formal education. In total 29.1% of all people employed fall in the category "elementary occupation" and 15.2% in the category "skilled agriculture" (NSA, 2019).

Overall, the rate of unemployment is estimated at 33.4% for Namibia, using the broad definition of unemployment. More than 60% of the population is over 15 years of age and about one-third of the total population can be regarded as part of the labour force. The unemployment rate in rural and urban areas is almost the same – 33.4% in urban areas and 33.5% in rural areas. The highest unemployment rates are found amongst persons with education levels lower than junior secondary. The unemployment rate of persons with no formal education is 28.6%, with primary education 34.6% and with junior secondary education 32.7% (NSA, 2019).

According to the Socio-Economic impact Assessment of COVID-19 in Namibia by the United Nations Namibia (2020), there has been an estimated increase in unemployment from 33.4% to 34.5% and through a best-case scenario, it is also estimated that poverty will increase from 17.2% to 19.5% due to a drop in the domestic GDP (United Nations Namibia 2020).

5.7.4 ECONOMIC ENVIRONMENT

In the Khomas Region, 74.5% of all households depend on salaries and wages as their main income source, only 0.2% of households depend on subsistence farming as their main source of



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income and 9.7% of all households get their main income from non-farming business activities (NSA, 2019).

In contrast to most of Namibia's other regions, agriculture is less prominent in the Khomas Region where the majority of people are urbanized. The figure for informal-employed people is also lower (55.6%) as people are employed in a wider range of secondary and tertiary economic sectors such as administration, services and manufacturing (NSA, 2019).

Guest farms and other tourism-related economic activities are also common in the Khomas Region, mainly as a result of its strategic location close to Windhoek and the Hosea Kutako International Airport.

Mining plays a pivotal role in the economy of Namibia. Since independence, it has consistently been the biggest contributor to Namibia's economy in terms of revenue and accounts for 25% of the country's income. Mining is one of the main contributors to GDP, and one of the largest economic sectors of Namibia.

Since 2016, Namibia has recorded slow economic growth, registering an estimated growth of only 1.1% in 2016. The primary and secondary industries contracted by 2.0 and 7.8% respectively. During 2017 the economy contracted by 1.7, 0.7 and 1.9% in the first, second and third quarters respectively (NSA, 2019). Despite the more positive expectations, the economy retracted to an average growth of not more than 1% annually since 2017.

During the second quarter of 2020, the domestic economy contracted by 11.1%, which is the largest contraction since 2013; However, the Bank of Namibia (BoN) predicts that the Gross Domestic Product (GDP) could grow by 1.9% in 2021 and by 2.8% in 2022. The impact assessment also showed that 96.5% of tourism businesses have been affected by COVID-19 in 2020, the manufacturing and construction sectors contracted by 9.2% and 5.7% respectively and there was also a 2% to 3% decline in net exports (United Nations Namibia 2020).

5.7.5 HEALTH AND DISEASE

Since independence in 1990, the health status of Namibia has increased steadily, with a remarkable improvement in access to primary health facilities and medical infrastructure. In 2015, the World Health Organisation (WHO) recommended strategic priorities for the health system in Namibia, which entailed improved governance, an improved health information system, emergency preparedness, risk reduction and response, preventative healthcare, and the combating of HIV/AIDS and TB (WHO, 2016).

As elsewhere in Namibia, HIV/AIDS remains a major reason for low life expectancy and is one of the leading causes of death in the region. HIV/AIDS remains the leading cause of death and



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premature mortality for all ages, killing up to half of all males and females aged 40 to 44 years in 2013 (IHME, 2016).

Tuberculosis (TB) is a leading killer of people infected by HIV/AIDS, and Namibia had a high burden in 2018 – 35% of people with TB were infected with HIV. The country is included among the top 30 high-burden TB countries in the world, with an estimated incidence rate of 423 per 100,000 people, and 60 fatalities per 100,000 people in 2018 (retrieved from www.mhss.gov.na).

As of the beginning of 2020, the coronavirus (COVID-19), caused illness in humans on a pandemic scale and has resulted in an increasing number of deaths worldwide. The viral outbreak has adversely affected various socioeconomic activities globally, and with reports of a continually increasing number of people testing positive, it is anticipated that this may have significant impacts on the operations of various economic sectors in Namibia too. The disease caused many countries to enter a state of emergency, which included various levels of lockdown restrictions that had dire economic consequences. In addition, these measures have had a detrimental effect on tourism, and Namibia is, in both cases, no exception.

Furthermore, COVID-19 has also resulted in a loss of learning and socialising opportunities for children in Namibia and there was a lack of access to school feeding programs and parents had to provide or find alternative care for children. There has also been a 6 % increase in health workers across Namibia as a result of the pandemic (United Nations Namibia 2020). The Namibian economy remains confined, following the aftermath of COVID-19. Hence, development partners, public and private sectors need the commitment to explore new approaches in order to revive the fragile economy (NSA,2019). By mid-February 2022, Namibia has recorded 4 002 deaths due to COVID-19 most of these deaths occurred in 2021, as a result of the Delta and Omnicron variants.

5.7.6 CULTURAL HERITAGE

From the Namibian GIS data and information from the Atlas of Namibia, there are no heritage sites within the proposed site with regards to the following periods: records from 1.8 million to 10000 years ago, 10000 to 2000 years ago or within the last 2000 years (Bubenzer, 2002 & Mendelsohn et al., 2002). Regardless, there is potential to unearth heritage sites.

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6 IMPACT IDENTIFICATION & EVALUATION METHODOLOGY

6.1 Introduction

This chapters outlines ECCs method to identify and evaluate impacts arising from the proposed project. The findings of the assessment are presented in Chapter 7.

The evaluation and identification of the environmental and social impacts require the assessment of the project characteristics against the baseline characteristics, ensuring all potentially significant impacts are identified and assessed. The significance of an impact is determined by taking into consideration the combination of the sensitivity and importance or value of environmental and social receptors that may be affected by the proposed project, the nature and characteristics of the impact, and the magnitude of potential change. The magnitude of change (the impact) is the identifiable changes to the existing environment which may be negligible, low, minor, moderate, high, or very high; temporary or short term, long-term or permanent; and either beneficial or adverse as shown in Figure 11.

This chapter provides the following:

- Details on the assessment guidance used to assess impacts;
- Lists the limitations, uncertainties and assumptions with regards to the assessment methodology;
- Details how impacts were identified and evaluated, and how the level of significance was derived; and
- Details how mitigation was applied in the assessment and how additional mitigation was identified.



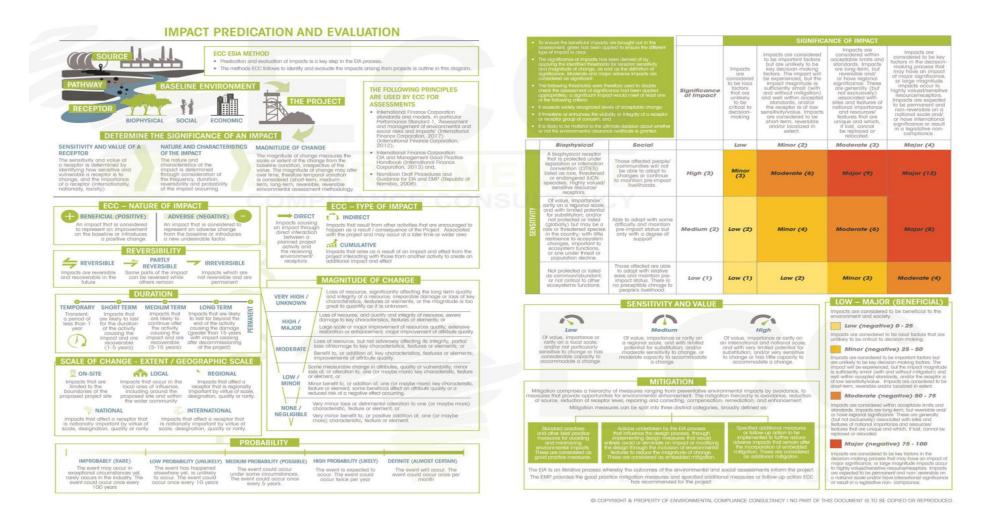


Figure 11 - ECC assessment methodology

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6.2 Assessment guidance

The principal documents used to inform the assessment method are:

- International Finance Corporation standards and models, in particular Performance Standard 1, 'Assessment and management of environmental and social risks and impacts' (International Finance Corporation, 2017) (International Finance Corporation, 2012);
- International Finance Corporation CIA and Management Good Practice Handbook (International Finance Corporation, 2013); and,
- Namibian Draft Procedures and Guidance for EIA and EMP (Republic of Namibia, 2008).

6.3 LIMITATIONS, UNCERTAINTIES AND ASSUMPTIONS

The following limitations and uncertainties associated with the assessment methodology were observed:

 Topic-specific assessment guidance has not been developed in Namibia. A generic assessment methodology was applied to all topics using IFC guidance and professional judgement.

A number of limitations and uncertainties were acknowledged during the ESIA process. In line with ESIA best practice, assumptions have been made based on realistic worst-case scenarios, thereby ensuring that the worst-case potential environmental impacts are identified and assessed. Table 6 contains the assumptions and uncertainties identified during the assessment process.

Where uncertainties exist, a cautious approach has been applied, allowing the worst-case scenario for potential impacts to be identified. Where limitation and uncertainties exist, assumptions have been made and applied during the assessment process. These have been clearly described in the baseline section.

Table 7 - Limitations, uncertainties and assumptions

LIMITATION / UNCERTAINTY	ASSUMPTION
Number of access roads and	The making of new tracks or access roads will be avoided,
temporary drill campsites	and existing tracks and routes will be used as far as
	possible. While every effort will be made to minimize
	environmental damage, in some cases it will be necessary
	to clear some bush to create small roads, which may be
	required for equipment to reach the site and for temporary
	campsites. If needed, cut lines must be created by clearing
	of vegetation to have access to some parts of the EPL.



LIMITATION / UNCERTAINTY	ASSUMPTION
The program of exploration works is not confirmed	It is assumed that exploration work shall take a couple of months with two-to-three-week sampling projects at different times on different sites and with follow-up exploration drilling projects possible. Activities involve drilling; aerial or remote sensing; geophysical surveys; and mineral sampling. Pitting and trenching are unlikely and generally not favoured. If commercially viable concentrations can be defined by preliminary drilling, a next phase of advanced resource drilling operations is possible.
Number of workers, area they will come from and accommodation	It is planned that approximately ten people will be contracted for the proposed project. Contractors may camp on exploration sites / farmland, depending on approval from farmers
Structures	No permanent infrastructure development will take place in this phase of operations which will span the 3-year award period. Depending on results, the proponent will set up temporary field camps required to house field staff for the purpose of sample collection, ground surveys and drilling. The camps will be such that their locations can be fully rehabilitated post completion of the field work.

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7 IMPACT ASSESSMENT FINDINGS AND PROPOSED MITIGATION MEASURES

This chapter presents the findings of the ESIA for the proposed project as per the ESIA process, scope and methodology set out in Chapter 2 and Chapter 6. A range of potential impacts have been identified that may arise as a result of the proposed project. The aim of this ESIA report is to focus on the significant impacts that may arise as a result of the proposed project. This chapter therefore only considers the significant impacts and or those that may have specific interest to the community and stakeholders. A summary of impacts that are considered significant is discussed in this section.

When undertaking the assessment exercise, the design of the proposed project and best practice measures were considered to ensure the likely significant effects and any required additional mitigation measures were identified. A summary of the potential impacts and mitigation and or control measures are discussed below.

The following topics were considered during the scoping phase:

- Water (surface and groundwater);
- Soil;
- Landscape (visual impacts, sense of place);
- Socio-economics (employment, demographics, and land-use);
- Noise;
- Ecology (fauna and flora);
- Air quality (emissions, pollutants and dust); and
- Heritage (including culture, history, archaeology and palaeontology).

Table 8 sets out the findings of the scoping assessment phase. Activities that could be the source of an impact have been listed, followed by receptors that could be affected. The pathway between the source and the receptor has been identified where both are present. Where an activity and or receptor have not been identified, an impact is unlikely, thus no further assessment or justification is provided. Where the activity, receptor and pathway have been identified, a justification has been provided documenting if further assessment is required or not required.

Due to the nature and localised scale of the exploration activities, and the environmental context of the EPL, the potential environmental and social effects are limited and unlikely to be significant. Aspects that prompted uncertainty relate to the potential increase in movements and the presence of people, which may cause the introduction of illegal and covert activities such as poaching, stock theft and the collection of organisms. Similarly, the potential of accidental veld fires may increase. In both cases the terrestrial ecology and biodiversity of Namibia is the receptor, although local landowners and their neighbours may experience these adversities firsthand. The recommended mitigation measures are contained in Table 8.



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Cumulative impacts as a result of physical disturbance, the nuisance of noise and dust and the loss of sense of place may be experienced as well; in this case the receptors are the farm owners, neighbours, visitors and tourists. Noise may have an effect on some organisms as well, though. Mitigation measures are recommended and contained in Table 8.

All precautions must be taken to prevent damage to heritage sites, in particular when a site with paleontological remains is discovered as a result of the exploration activities. The chance find procedure will be implemented in such a case. With the necessary mitigation measures in place (Table 8), the significance of the impact reduces from moderate to minor.

Table 8 - Scoping assessment findings and proposed mitigation measures

Description	Details		
Aspect	Water		
Description of activity	Site operations such as maintenance activities, loss of containment, accidental fuel / hydraulic fluid leaks and spills, or similar sources.		
Description of	Hydrocarbon leaks and spills	could enter the aquifer causing	
impact	contamination		
Assessment of	Receptor	Groundwater quality	
impact	Effect/description of	Adverse	
	magnitude	Direct	
		Partly Reversible	
		Moderate	
		Short term	
		Regional	
	Possible		
	Value of sensitivity Medium		
	Magnitude of change Minor		
	Significance of impact prior to	Minor (4)	
	mitigation		
Impact	 Good housekeeping 		
management/control	 Training through toolbox talks 		
measures	*	nachinery must have drip trays to	
	collect leakages of lubricants a		
	· ·	erial available during fuel delivery,	
	storage or use		
	· ·	cluding absorption material) to be	
	cleaned as soon as possible		
	- Major spills to be reported, als		
		dules on equipment is in place	
	•	- Store bulk fuel in adequate containment areas (non-porous	
	surface, bunded)		



Description	Details	
	- No damaged containers in use	
	- Preventative measures will be in place when service and	
	maintenance activities are done (drip trays, non-porous surfaces,	
	funnels, non-damaged containers)	
	- Refuelling will be done in areas with adequate preventative	
	measures in place	
Residual impact	Low (2)	
after mitigation		

Description	De	tails
Aspect	Water - surface and groundwater	
Description of	Potential spillages of drill fluid, lubrication, etc. or drilling that	
activity	penetrate the groundwater table.	
Description of	Hydrocarbon leaks and spills	could enter the aquifer causing
impact	contamination	
Assessment of	Receptor	Groundwater quality
impact	Effect/description of	Adverse
	magnitude	Indirect
		Partly Reversible
		Minor
		Short term
		Local
		Possible
	Value of sensitivity Low	
	Magnitude of change Minor	
	Significance of impact prior to Low (2)	
	mitigation	
Impact	- Ensure spill kits and preventative measures (e.g., drill pads) are in	
management/control	place at exploration sites	
measures	- Consider alternative sites whe	· ·
	- Drill system should be dug t	to direct any accidental spills into
	sumps	
	- Extraction volumes of water shall be minimal during exploration	
	and where possible, water from existing water sources shall be	
	used	
Residual impact after	Low (1)	
mitigation		



Description	Det	ails
Aspect	Water – surface and groundwater	
Description of	Discharge and infiltration of non-contained wastewater.	
activity		
Description of	Wastewater can contaminate surfa	ce and groundwater.
impact		
Assessment of	Receptor	Surface and ground water
impact	Effect/description of	Adverse
	magnitude	Direct
		Partly Reversible
		Minor
		Short term
		Regional
		Unlikely
	Value of sensitivity	Low
	Magnitude of change	Minor
	Significance of impact prior to	Low (2)
	mitigation	
Impact	- Wastewater discharges will be contained	
management/control	- Workers will be made aware ab	out the importance of wastewater
measures	management	
	- Good housekeeping	
	- Ensure prompt clean-up of spills	
Residual impact after	Low (1)	
mitigation		



Description	Details	
Aspect	Water – surface and groundwater	
Description of	Discharge and infiltration of non-contained wastewater.	
activity		
Description of	Wastewater can contaminate surfa	ce and groundwater.
impact		
Assessment of	Receptor	Surface and ground water
impact	Effect/description of	Adverse
	magnitude	Direct
		Partly Reversible
	Minor	
		Short term
		Regional
	Unlikely	
	Value of sensitivity Low	
	Magnitude of change Minor	
	Significance of impact prior to	Low (2)
	mitigation	
Impact	- Wastewater discharges will be contained	
management/control	- Workers will be made aware ab	oout the importance of wastewater
measures	management	
	- Good housekeeping	
	- Ensure prompt clean-up of spills	
Residual impact after	Low (1)	
mitigation		



Description	Det	ails
Aspect	Water	
Description of activity	Inadequate management of solid waste.	
Description of impact	Waste items and litter can pollute drainage channels.	
Assessment of	Receptor	Surface and ground water
impact	Effect/description of magnitude	Adverse Cumulative Reversible Minor Temporary On-site Unlikely
	Value of sensitivity	Low
	Magnitude of change	Low
	Significance of impact prior to mitigation	Low (1)
Impact management/control measures	 Good housekeeping Training and awareness through toolbox-talks and induction Implement a Standard Operational Procedure (SOP) on waste management, for all kinds of waste possible on-site (e.g., domestic, mineral, hydrocarbons, hazardous) Avoid hazardous waste on site Implement a culture of correct waste collection, waste segregation and waste disposal 	
Residual impact after mitigation	Low (1)	



Description	Details	
Aspect	Soil	
Description of	Inadequate management of hazardous and hydrocarbon waste.	
activity		
Description of	Pollution of soil.	
impact		
Assessment of	Receptor	Soil
impact	Effect/description of	Adverse
	magnitude	Direct
		Reversible
		Minor
		Short term
	On-site	
		Possible
	Value of sensitivity	Low
	Magnitude of change	Minor
	Significance of impact prior to	Low (2)
	mitigation	
Impact	- Good housekeeping	
management/control	- Training and awareness throug	th toolbox-talks and induction
measures	– Implement a Standard Opera	tional Procedure (SOP) on waste
	management, for all kinds of waste possible on-site (e.g.,	
	domestic, mineral, hydrocarbons, hazardous)	
	- Avoid hazardous waste on site	
	- Implement a culture of correct waste collection, waste segregation	
	and waste disposal	
Residual impact after	Low (1)	
mitigation		

Description	Details		
Aspect	Terrestrial ecology and biodiversity	/	
Description of	Vegetation clearing for access r	outes, drill pads and temporary	
activity	contractor's camp.	contractor's camp.	
Description of	Loss / alteration of terrestrial habitats and loss of species		
impact			
Assessment of	Receptor Terrestrial ecology and		
impact		biodiversity	
	Effect/description of	Adverse	
	magnitude	Direct	
		Reversible	



Description	Details	
		Minor
		Short term
		On-site
		Possible
	Value of sensitivity	Low
	Magnitude of change	Minor
	Significance of impact prior to	Low (2)
	mitigation	
Impact management/control measures	 Use existing roads for access to avoid new tracks and cut lines Minimise clearance areas through proper planning of the exploration activities Where necessary, rescue and relocate plants of significance Promote revegetation of cleared areas upon completion of exploration activities 	
Residual impact after mitigation	Low (1)	

Description	Det	ails
Aspect	Terrestrial ecology and biodiversity	
Description of activity	Ambient noise as a result of machinery and equipment-use and movement (e.g., drill rigs, generators, vehicles) and movement (also through the use of airborne equipment).	
Description of impact	Residing, slow-moving and nesting organisms can be disturbed.	
Assessment of impact	Receptor	Terrestrial ecology and biodiversity
	Effect/description of	Adverse
	magnitude	Direct
		Reversible
		Minor
		Short term
		On-site
		Likely
	Value of sensitivity	Low
	Magnitude of change	Minor
	Significance of impact prior to	Low (2)
	mitigation	
Impact	- Restrict excessive noise to areas of activities only	
management/control	- Restrict excessive noise to daytime hours (7 am to 5 pm	
measures	weekdays and 7 am until 1 pm on Saturday)	
	– No activities between dusk and dawn	



Description	Details
	 Drill equipment shall be suitably positioned to ensure that noisy equipment is away from receptors All equipment to be shut down or throttled back between periods of use, Respect civic aviation regulations about the use of a drone
Residual impact	Low (1)
after mitigation	

Description	Det	ails	
Aspect	Terrestrial ecology and biodiversity		
Description of	Increased movement of vehicles, machinery and equipment.		
activity			
Description of	Residing and nesting organisms such as reptiles can be disturbed,		
impact	injured or killed.		
Assessment of	Receptor Terrestrial ecology and		
impact	biodiversity		
	Effect/description of	Adverse	
	magnitude	Direct	
		Partly reversible	
		Moderate	
		Short term	
	On-site Possible Value of sensitivity Low Magnitude of change Minor		
	Significance of impact prior to Low (2)		
	mitigation		
Impact	Destrict may amonts to areas of activities only		
management/control	- Restrict movements to areas of activities only		
measures	- Use existing tracks and routes	-	
	 Identify rare, endangered, threatened and protected species in advance. 		
		De terre desde en ederated en elemente de estal	
	- Restrict movements to daytime		
		y them on avoiding some areas	
	 No driving off designated acces 	ss routes (into the bush) / off-road	
	driving		
	- No animals or birds may be	collected, caught, consumed or	
	removed from site	-	
Residual impact	Low (1)		
after mitigation			



Description	Details	
Aspect	Terrestrial ecology and biodiversity	
Description of activity	Increased disturbance of areas with natural vegetation.	
Description of impact	Alien species and weeds can be introduced to the area.	
Assessment of impact	Receptor	Terrestrial ecology and biodiversity
	Effect/description of	Adverse
	magnitude	Direct
		Reversible
		Minor
		Short term
		On-site
	Possible	
	Value of sensitivity	Low
	Magnitude of change	Minor
	Significance of impact prior to	Low (2)
	mitigation	
Impact management/control measures	- All project equipment arriving on site from an area outside of the project or coming from an area of known weed infestations (not	
illeasures	present on the project site) sho	uld have an internal weed and seed
	inspection completed prior to e	equipment being used
	- Monitor areas of activity for we	ed and alien species
	 Eradicate weeds and alien spec 	ties as soon as they appear
	- Make workers aware about alie	, , ,
Residual impact after mitigation	Low (1)	

Description	Details	
Aspect	Soil	
Description of	Vegetation clearing	
activity		
Description of	Increased exposure due to possible	e vegetation clearance can cause
impact	soil erosion.	
Assessment of	Receptor Soil	
impact	Effect/description of	Adverse
	magnitude	Direct
		Reversible
		Moderate
		Short-term
		On-site
		Possible
	Value of sensitivity	Low
	Magnitude of change	Minor



Description	Details		
	Significance of impact prior to	Low (2)	
	mitigation		
Impact	- Limit the possibility of com	paction and creating of a hard	
management/control	subsurface		
measures	- Limit the possibility of trampling		
	- Topsoil should be stockpiled	- Topsoil should be stockpiled separately, and re-spread during	
	rehabilitation		
	- During drilling oil absorbent matting should be placed under and		
	around the rig		
	- Equipment must be in a good condition to ensure that accidental		
	oil spills do not occur and contaminate soil		
	- In the event of spills and leaks, polluted soils must be collected and		
	disposed of at an approved site	2	
	- Limit the possibility to mix min	eral waste with topsoil	
Residual impact	Low (1)		
after mitigation			

Description	Details	
Aspect	Soil	
Description of activity	Drilling and the use of drilling equipment.	
Description of impact	Loss of soil quality due to mixing of earth matter, trampling and compaction.	
Assessment of	Receptor	Soil
impact	Effect/description of magnitude Value of sensitivity Magnitude of change	Adverse Direct Reversible Moderate Short term On-site Possible Low Minor
	Significance of impact prior to mitigation	Low (2)
Impact management/control measures	 Ensure erosion control and prevention measures are in place when vegetation clearance is required Where necessary, plan access routes, drill pads and camps outside of existing drainage lines Where necessary, install diversions to curb possible erosion Restore drainage lines when disturbed 	
Residual impact after mitigation	Low (1)	



Aspect Description of activity Description of impact Assessment of impact Effect/description of magnitude Terrestrial ecology and biodiversity Destroys grazing and kill living organisms Terrestrial ecology and biodiversity Effect/description of magnitude Direct Reversible Moderate		
activity Description of impact Assessment of impact Receptor Effect/description of magnitude Destroys grazing and kill living organisms Terrestrial ecology and biodiversity Adverse Direct Reversible		
Assessment of impact Receptor Effect/description of magnitude Receptor Terrestrial ecology and biodiversity Adverse Direct Reversible		
impact Effect/description of magnitude biodiversity Adverse Direct Reversible		
magnitude Direct Reversible		
Reversible		
Moderate		
Temporary		
Local		
Possible		
Value of sensitivity High		
Magnitude of change Minor		
Significance of impact prior to Moderate (6)		
mitigation	<u> </u>	
- Restrict movements of people to areas of activities only		
management/control – Train people and raise awareness about veld fires and firefig	ghting	
- No open fire outside designated areas		
- Ensure proper cooking facilities at fly camps		
No cigarette buds are discarded but contained and disposed	d of at	
an appropriate facility		
- Proper fire hazard identification signage to be placed in area	s that	
store flammable material (i.e. hydrocarbons and gas bottles)	
- Control and reduce the potential risk of fire by segregating	g and	
safe storage of materials		
- Avoid potential sources of ignition by prohibiting smoking i	n and	
around facilities		
- Firefighting equipment and fire breaks should always	be at	
designated areas and should be maintained regularly		
Residual impact Minor (3)		
after mitigation		



Description	Details	
Aspect	Community	
Description of activity	Airborne surveying over the EPL, possible low flying	
Description of impact	Perceived impact from surveying activities on livestock and humans	
Assessment of	Receptor Community and livestock	
impact	Effect/description of	Adverse
	magnitude	indirect
		Reversible
		Minor
		Temporary
		Local
		Unlikely
	Value of sensitivity	Low
	Magnitude of change	Minor
	Significance of impact prior to	Low (2)
	mitigation	
Impact		veying, both directly and indirectly
management/control	'	formed in writing of exploration
measures	activities at least 2 weeks prior	to conducting the aerial surveys.
	 The following information is to be included in the written communication sent: Company name, Survey dates, time and duration, 	
	Purpose of the survey,	
	Flight altitude,	
	Survey location, Map of	survey area and flight lines, and
	Contact details for enqu	uiries.
- Compliance with all applicable		laws and agreements
		nent with residents to identify any
		priate mitigation and management
	measures agreed upon	
	- Ensure appropriate supervision	n of all activities
	'' '	o daytime hours (7 am to 5 pm
	weekdays and 7 am until 1 pm	
Residual impact	Low (1)	on Saturday)
after mitigation	Low (1)	
arter militigation		



Description	Details		
Aspect	Heritage		
Description of	Drilling activities, movement of machinery and vehicles.		
activity			
Description of	Potential damage to cultural herita	ge sites.	
impact			
Assessment of	Receptor Heritage		
impact	Effect/description of	Adverse	
	magnitude	Direct	
	Partly Reversible		
		High	
		Permanent	
		On-site	
	Possible		
	Value of sensitivity High		
	Magnitude of change Minor		
	Significance of impact prior to Moderate (6)		
	mitigation		
Impact	- Implement a Chance Find Procedure		
management/control	- Raise awareness about possible heritage finds		
measures	- Report all finds that could be of heritage importance		
	- In case archaeological remains to be uncovered, cease activities		
	and the site manager must assess and demarcate the area		
	- Project manager to visit the site and determine whether work can		
	proceed without damage to findings, mark exclusions boundary		
	and inform ECC with GPS positi		
		tion must be requested for a	
	professional assessment and the necessary protocols of the		
	Chance Find Procedure must be followed,		
	_	e significance of the remains and	
		cord and remove; relocate or leave	
	premises, depending on the na		
	- Inform the police if the remains		
		or approval from the competent	
		ver and remove the remains to the	
Desidual insurant of	National Museum or National Forensic Laboratory as directed.		
Residual impact after	Minor (4)		
mitigation			



Description	Details			
Aspect	Community			
Description of	Drilling activities, resulting into dust emissions			
activity	 Windblown dust from exposed/cleared land during exploration activities 			
Description of impact	Visual disturbance and loss of sense of place.			
Assessment of	Receptor Community			
impact	Effect/description of Adverse			
	magnitude	Direct		
		Reversible		
		Moderate		
		Temporary		
		Local		
	Likely			
	Value of sensitivityHighMagnitude of changeMinor			
	Significance of impact prior to Moderate (6)			
	mitigation			
Impact	 Position drill equipment in such a way that it is out of sight from 			
management/control	human receptors			
measures	 Apply dust suppression where possible 			
	 Restrict speed of vehicles (<30km/h) 			
	 Specific activities that may generate dust and impact on residents 			
	shall be avoided during high wi	nd events		
	– All vehicles and machinery /	equipment to be shut down or		
	throttled back between periods	s of use		
	 Barriers or fences shall be used if drilling occurs in locations that 			
	may affect residents or livestock			
		at least two weeks in advance that		
	drilling operations are within 1			
	 Maintain good housekeeping 	an or their property		
	, ,	esidents to identify any concerns		
	or issues, and appropriate miti	3 3		
	measures agreed upon	94		
Residual impact	Minor (4)			
after mitigation				



Description	Details	
Aspect	Community	
Description of	Movement of vehicles, exploration activities	
activity		
Description of impact	Create conflict with farm owners about access, leaving gates open,	
	suspicious movements, loss of farming area, etc.	
Assessment of	Receptor	Community
impact	Effect/description of	Adverse
	magnitude	Indirect
		Reversible
	Minor	
	Short term	
	On-site	
	Likely	
	Value of sensitivity Low	
	Magnitude of change Minor	
	Significance of impact prior to Low (2)	
	mitigation	
Impact	 Ensure documented permission 	n to enter farm owners should have
management/control	access to all farm areas at all tir	nes.
measures	 Residents shall be provided at 	least two weeks' notice of drilling
	operations within 1 km of their	' ' '
	9 1	ng area need to be left unaffected
	 Use existing roads for access, a 	
	 Compliance with all applicable 	
		residents to identify any concerns
		anagement measures agreed upon
Residual impact after	Low (1)	
mitigation		



Description	Details		
Aspect	Community		
Description of activity	Movement of vehicles, exploration activities		
Description of impact	Presence of exploration team can be blamed for stock theft and poaching.		
Assessment of	Receptor Community		
impact	Effect/description of	Adverse	
	magnitude	Cumulative	
		Reversible	
		Minor	
	Temporary		
	Local Unlikely Value of sensitivity Low Magnitude of change Low		
	Significance of impact prior to Low (1)		
	mitigation		
Impact	 Develop and implement an operation manual or procedures to 		
management/control	work on farmlands and implement monitoring programmes		
measures	thereafter		
	1	ent with residents to identify any	
	measures agreed upon	oriate mitigation and management	
		of all activities	
	Ensure appropriate supervision Paise awareness and sensitize		
	 Raise awareness and sensitize issues such as stock theft and p 	. ,	
	Accidents and incidents need to	0	
Residual impact	Low (1)	manager and recorded in the incident register	
after mitigation			
arter initigation			



Description	Details	
Aspect	Community	
Description of	Exploration activities	
activity		
Description of	Triggers job creation, skills development, and opportunities for the	
impact	local economy.	
Assessment of	Receptor	Community
impact	Effect/description of	Beneficial
	magnitude	Direct
		Reversible
		Minor
		Short term
		Local
		Possible
	Value of sensitivity	Low
	Magnitude of change	Low
	Significance of impact prior to	Low (2)
	mitigation	
Impact	Maximize local employment	
management/control	As far as possible promote local procurement	
measures	Enhance the development of local skills where possible	
Residual impact after mitigation	Low Beneficial	



Votorantim Metals Namibia (Pty) Ltd

8 ENVIRONMENTAL MANAGEMENT PLAN

The EMP for the proposed project is presented in Appendix A. It provides management options to ensure the impacts of the proposed project are minimised. An EMP is a tool used to take proactive action by addressing potential problems before they occur. This should limit the corrective measures needed, although additional mitigation measures might be included if necessary.

The management measures should be adhered to during all stages of the exploration activities. All persons involved and partaking in the proposed activities should be made aware of the measures outlined in the EMP to ensure activities are conducted in an environmentally responsible manner.

The objectives of the EMP are:

- To include all components of the development and operations of the project;
- To prescribe the best practicable control methods to lessen the environmental impacts associated with the project;
- To monitor and audit the performance of operational personnel in applying such controls;
 and
- To ensure that appropriate environmental training is provided to responsible operational personnel.



Votorantim Metals Namibia (Pty) Ltd

9 CONCLUSION

ECC's ESIA methodology was used to undertake the environmental assessment for the proposed exploration activities on EPL 7973, to identify if there is potential for significant effects to occur as a result of the proposed Project.

Through the scoping process, the only risk to the environment is related to the cumulative impacts as a result of physical disturbance, nuisance of noise and dust and the loss of sense of place, thereby impacting human receptors in the area. Impacts with respect to airborne dust are expected to be limited to vehicular traffic and drilling activities. There will be some release of exhaust fumes from machinery that will impact the immediate vicinity but will be of short duration. Additionally, there will be associated drilling and machinery noise, which could be a disturbance to immediate neighbours, but this will be of short duration as well. Through further analysis and identification of mitigation and management methods, the assessment concludes that the likely significance of effects on humans from the cumulative impacts of physical disturbance, noise, dust and emissions will be a temporary qualitative reduction in the sense of place and expected to be minor. Prior awareness and communication about the project shall be encouraged.

Due to the increased movements and presence of people, there is a potential that illegal and covert activities such as poaching, stock theft and the collection of organisms can be introduced to the area. Similarly, the potential of accidental veld fires may increase. In both cases the terrestrial ecology and biodiversity of Namibia is the receptor, although local landowners and their neighbours may experience these adversities first-hand. Through this investigation the significance of both impacts is indicated as moderate. In both cases numerous mitigation measures, with proven national success, exist and were also applied to reduce the significance to minor.

Heritage sites may exist around the EPL. All precautions will be taken to prevent damage to heritage sites, as a result of the exploration activities. The chance find procedure will be implemented in such a case. With the necessary mitigation in place, the significance reduces from moderate to minor.

All other social and environmental receptors were scoped out as significant effects were unlikely and therefore no further assessment was deemed necessary. Various best practice and mitigation measures have been identified to avoid and reduce effects as far as reasonably practical, as well as ensure the environment is protected and unforeseen effect and environmental disturbances are avoided.

Votorantim Metals Namibia (Pty) Ltd

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Votorantim Metals Namibia (Pty) Ltd

APPENDIX A - ENVIRONMENTAL MANAGEMENT PLAN



Votorantim Metals Namibia (Pty) Ltd

APPENDIX B - BACKGROUND INFORMATION DOCUMENT

APPENDIX C - NEWSPAPER ADVERTISMENTS

4 Republikain Sun MAlgemeine Zeitung

Market Watch

TUESDAY 12 JULY 202

372 000 net new jobs in June

US job gains fuel further inflation worries

nillion jobs in the first half of he year, more than most full rears dating back to 2000.

hears dearing commy added far more jobs than expected in June and wages mse, giving Fresident Joe siden a reason to cheer but adding uel to worries about accelerating in-

uel to worties about accelerating in-lation.
Biden has seen his approval ratings, lummet as Americans face the worst inflation surge in more than 40 years, ut after the intest data Friday, he un-inscreared the rapid jobs recovery in be wake of the pandernic. But the closely-watched Lubor De-artment report gave few indications he economy it salvets, which likely ements the central bank's resolve occording its addressive interest

aments the central bank's resolve occordinue its aggressive interest ate hikes. US employers added 372 000 not aw jobs last month, nearly 100 000 nore than economists forecest, and he unemployment rate hald steady at 16 percent for the fourth month, the abor Department represent.

abor Department reported.
The economy gained 2.74 million
obs in the first half of the year, more
han most full years dating back to

han most full years unsung — 1900.

"We have more Americans working oday in the private sector than any iny under my predecessor. More oday than any time in American story at a time when our critics said be economy was too wank," Biden ald at the White House.



He acknowledged that "Families are facing the cost-of-living crunch," but said "today's comomic news con-firms the fact that my economic plan is moving this country in a better di-rection."

is moving this country nation."

Faction."

But with firms struggling to fill open positions and many potential workers staying on the sidelines, wages have been pushing higher, which economists fear could provoke a wage-price refrail.

War on inflation
The report showed average hourly
earnings rose again to secure a 5.1
Atlanta Federal Reserve Bank Frespercent increase over the past 12

months, though that was slightly slower than in May and below the 5.6 percent peak in March. And the share of adults in the labor force was little changed, but Diane Swonk of Grant Thornton noted that the number of people provented from looking for work or working less due to the pandemic is rising, which could be holding back an influx of workers. The data will provide little comfort to the Federal Reserve, which has declared war on inflution and launched asseries of Interest rate hikes to tryto

tion," Bostic said on CNBC.
That imbalance will have to cominto alignment "if we're going to ge
that inflation under control."
The Fed's effects to tamp down."
The Fed's effects to tamp down pressures has foulled share; tivili put
the world's largest economy into a
constant.

ression. Fed Chair Jerome Powell has argue

Fed Chair Jerons Powell has argue that the strong US job market mean the economy is well-positioned t withstand the rapid ramp up in borowing rates, although be and othe policymakers acknowledge the process may inflict some pain.

Biden said job growth is likely t slow in coming months following the rapid rebound, but "No countries better positioned than Americat bring down infliction, without giving all of the accommic gains we has made over the last 18 months."

labour market is a good thing, but he stressed that he is "fully supportive" for fanother support sed increase in the benchmark borrowing rate laterthis month, matching the three-quarter percentage point hike in June.

We have more Americans where the fully in the months can be forced on the force Covid-19 he according to the report. Big gains in the month can in the haulth care and leisure and hospitis ity sectors, while retail rebounds after a big decline in May, the day showed Manufacturing added 20 to a strong consumer demand any day under my predecessor.

Jue Biden President: US

"We're starting to see those first signs of slowdown, which is what we need because what we have rightnow is a great imbalance between supply and demand that's driving the infla
"Medical and the sector of the first a month of the private sector has recovered fully and his mecory loss that period point in the proton in the private sector has recovered fully and his mecory less that period in the report. Big gains in the months care in the head of a big decline in May, the day showed Manufacturing added 20 to a strong a big growth, especial to the temport. Big gains in the months care in the head of a big decline in May, the day showed Manufacturing added 20 to a strong a big growth, especial of the temport. Big gains in the months care in the months.

"Turn's strong consumer demand has a chored the post-pandenic recover and defined expectations of a slow down, but eccounsitis still belief to community and the recent day support our view that talk of the economy being in recession right no strong consumers and the recent day support our view that talk of the economy being in recession right no manufacturing added 20 to a strong consumer demand has a chored the post-pandenic recover the months. The strong consumer demand has a chored the post-pandenic recover the months. The strong consumer demand has a chored the post-pandenic recover consumers and the second the strong consumer demand has a chored the post-pandenic recover the ma



Are you a Namilpian in your final year at UNAM, NUST or IUM? Do you want to have a head start in your career path and want to integrate work experience with theory? Apply to be part of the Sanfam Internship Programme?

- You should be studying towards a career in one of the following fields:

 Accounting / Finance + Marketing / Communication
 Business Management Lew / Compliance
 Ecenomics / Invactments
 Actuarial Science
- Minimum grade average of 60%.

FINAL YEAR STUDENTS DEADLINE 20 JULY 2022





Votorantim Metals Namibia (Pty) Ltd







Market Watch

WEDNESDAY 20 JULY 2022





ALBA CHIPAMBA TRAINING CENTER

Invites interested candidates to apply for Tutor and Clinical Instructor positions Submit detailed CV, Certified Qualifications and other supporting

Post Designation:

Tutors x 5 Clinical instructors X2

Duty station: Total Number of Posts: Subjects to be taught:

Rundu & Walvis Bay 7

Midwifery Nursing science Community Health Nursing Science General Nursing Science

Salary scales:
Tutor, N\$ 312 000 PA (all inclusive)
Clinical Instructor, N\$ 276 000 PA (all inclusive)

Minimum Observation and Job Reduirements			
Tutor	Clinical instructor		
Degree in Nursing and Midwifery Sciences	Diploma/Degree in Nursing and Midwifery Sciences		
Degree/Diploma Nursing Education	Registration with HPCNA		
(A master's degree in any Nursing science will be an added advantage)	5 years relevant working experience working as a nurse.		
Registration with HPCNA			
5 years relevant working experience in Nursing Education Setting			

NB: Namiblans are encouraged to apply
Please forward your application with detailed CV, references and certified copies of qualifications to,
Email: info wb@elbachipambs.com

Enquirles. M Rumeta 08/14/7/203 Closing Date: 29 JULY 2022

Expression of Interest





Closing date: 10 am on 12 August 2022

Delivery address: New Campus Head Office Ground floor, c/o Fidel Castro & Reverend Michael Scott Streets, at reception.

For More Information contact: Procurement@Nedbank.com.na or 061 295 2055



The NNH Group shall notify all successful applicants of the outcome of their application once the selection has been

see money differently

NEDBANK

VACANCY ANNOUNCEMENT

Biosystems Laboratory Technician Starting September 2022 APPLICATION DEADLINE: Friday 29th of July 2022

Location: Lüderlitz Namibia



PROFILE - Kelp Blue Namibia is looking to hire an enthusiastic laboratory technician to join its Biosystems team. The successful candidate will wark closely with the existing secon to support kelp production activities at its Lident's based kelp hatchery. They will also be required to conduct detailed and diligent daily reporting of activities, assist with maintenance, cleaning and fising, as well as overseening the day-ho-day tasks of interns. The candidate is required to have minimum 2 years existing experience working in a laboratory environment, but does not require prior experience working with algae (although this would be advantageous). The ideat fechnician should be detail orientated, meticulous and happy to work on routine tasks until completed.

WHAT YOU WILL DO - The candidate is primarily required to assist with/ be responsible for ensuring a continuous supply of sterile seawater (including the collection of raw seawater), stock take and oxidering of consumables, cleaning/maintenance of laboratory spaces/ equipment, preparation for various production activities, data capture and overneeing laboratory interes. The selected candidate would also assist with the maintenance of kelp cultures and other production related tasks, Additionally, Kelp Blue is constantly expanding and upgrading its hatchery and laboratory spaces, hence the new staff member would be able to contribute to the development of these spaces.

This is a fantastic opportunity for the selected candidate to [1] develop and contribute their existing laboratory experience. (2) gain experience working in the field of aquaculture and algal sciences, (3) have the apportunity to join the Kelp Bite teams a fast-pace start-pu, whose goal is to referest the ocean with Glant Kelp, improving biodiversity and capturing atmospheric CO2.

- #EQUIREMENTS

 \$5c or MSc in a marine or terestrial related field

 (i.e., a background in science)

 Minimum 2 years working in a Laboratory environment

 Willing to relocate to I. Dideritz, Namibia

 Happy to conduct routine and administrative tasks

 Driving Scense

- Experience working with Algae, Fungi or other micro-organisms
 Experience in HACCP and/ or bio-security
 Experience in Aquaculture systems

Send an email with CV and motivation letter to: newkelplestikelp.blue with BIOSYSTEMS TECHNICIAN in the subject line (DEADLINE: friday 27th of July 2022).



APPENDIX D - SITE NOTICES





Votorantim Metals Namibia (Pty) Ltd

APPENDIX E – STAKEHOLDER LETTER



+264 81 669 7608

info@eccenvironmental.com

www.eccenvironmental.com



REFERENCE: ECC-88-398-LET-16-D

1 August 2022

Identified stakeholder and potentially interested or affected party for:

The proposed exploration activities on EPL 7973 for base, rare metals, industrial and precious metals within the Hardap/Khomas Region

RE: NOTIFICATION OF AN ENVIRONMENTAL ASSESSMENT OF THE PROPOSED EXPLORATION ACTIVITIES ON EPL 7973 FOR BASE, RARE METALS, INDUSTRIAL MINERALS AND PRECIOUS METALS WITHIN THE KHOMAS REGION, NAMIBIA.

Environmental Compliance Consultancy (ECC) has been engaged by Votorantim Metals Namibia (Pty) Ltd, the Proponent, as their environmental assessment practitioner to conduct an environmental and social impact assessment, in terms of the Environmental Management Act, No. 7 of 2007 for the proposed exploration of base, rare and precious metals and industrial minerals in the Khomas Region, Namibia.

This letter is intended to engage potentially interested and affected parties (I&APs) for the Project and provides a communication channel to ECC for the ESIA process. You have been identified as an interested or affected party and therefore ECC wishes to inform you of how you can be involved with the ESIA.

The Proponent proposes to conduct early exploration activities such as geological mapping, geochemical surveys (soil and bulk samplings), geophysical surveys (airborne and ground) and rotary air blast (RAB), reverse circulation (RC) and or diamond drilling.

Public participation is an important part of the ESIA process, as it allows the I&APs to obtain information about the proposed project and provide feedback. Communication with the I&APs occurs at various stages throughout a project lifecycle including:

- · Advertising in newspapers; public notice boards;
- Distributing a Background Information Document (BID) to identified I&APs; available online at (https://eccenvironmental.com/download/the-proposed-exploration-activities-on-epls-79637973-8050-8051-for-base-and-rare-metals-and-industrial-minerals-and-precious-metals-hardap-khomas-region-namibia/)



Votorantim Metals Namibia (Pty) Ltd



 Registered I&APs will also be informed of the available draft scoping report for a review period, during this period I&APs will have the opportunity to review the draft document and raise any issues or concerns, and

I&APs who wish to register for the project can do so on the ECC website as per the link provided below: https://eccenvironmental.com/download/the-proposed-exploration-activities-on-epls-79637973-8050-8051-for-base-and-rare-metals-and-industrial-minerals-and-precious-metals-hardap-khomas-region-namibia/

If you are unable to complete the registration form online, please contact us via email for assistance. info@eccenvironmental.com

ECC values community input and participation in our projects and we look forward to working with you as the project develops.

Yours sincerely,

Stephan Bezuidenhout

Environmental Compliance Consultancy

Email: stephan@eccenvironmental.com

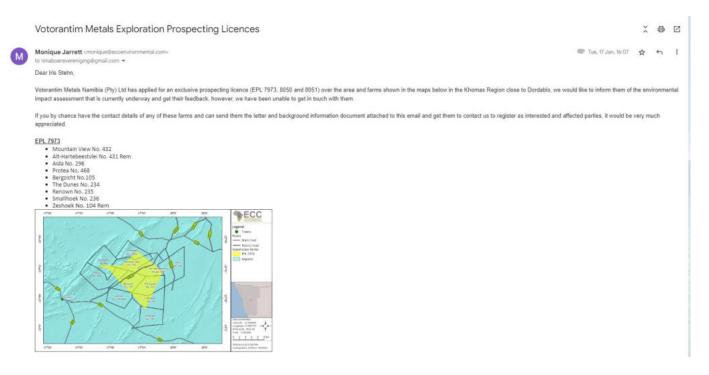
Jessica Bezuidenhout (Mooney)

081 669 7608

Email: jessica@eccenvironmental.com

Votorantim Metals Namibia (Pty) Ltd

APPENDIX F - EMAILS SENT TO I&APS



Kind regards,

Monique Jarrett

Environmental Compliance Consultancy (ECC)
Position: Environmental Practitioner
Mobile: +264 81 381 1474
Office Tel: +264 81 669 7608

Postal: PO BOX 91193 | Klein Windhoek | Namibia

Address: 1 Jan Jonker St | Wasserberg Park | Klein Windhoek | Namibia

Email: monique@eccenvironmental.com
Website: www.eccenvironmental.com

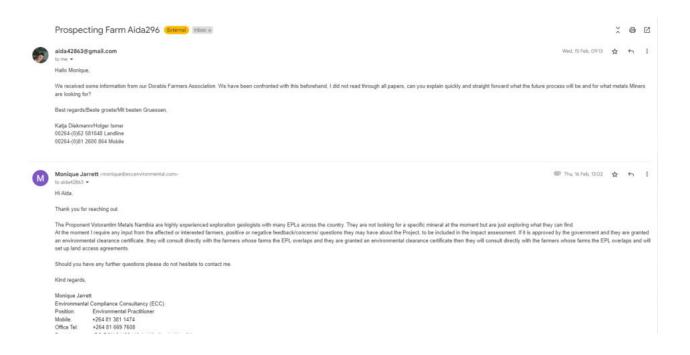
Environmental Compliance Consultancy Notice. This message and any attached files may contain information that is confidential and/or subject of legal privilege intended only for use by the intended recipient. If you are not the intended recipient or the person responsible for delivering the message to the intended recipient, be advised that you have received this message in error and that any dissemination, copying or use of this message or attachment is strictly forbidden, as is the disclosure of the information therein. If you have received this message in error please notify the sender immediately and delete the message



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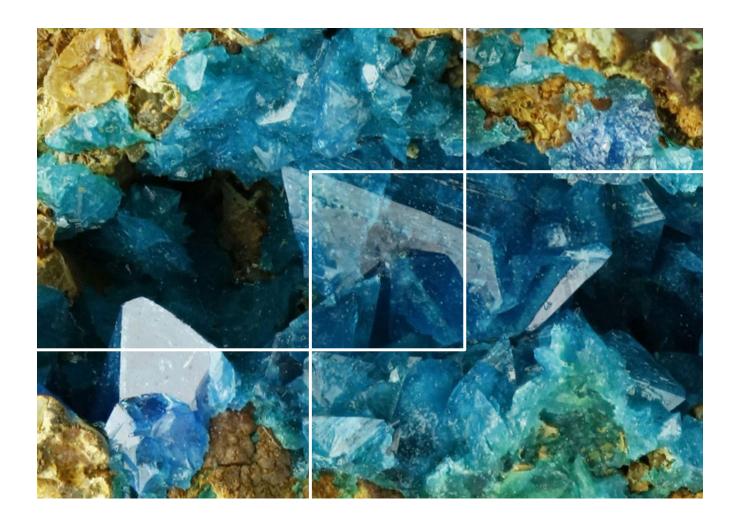
Votorantim Metals Namibia (Pty) Ltd





Votorantim Metals Namibia (Pty) Ltd

APPENDIX G - EAP CVS





Submitted to: Votorantim Metals Namibia (Pty) Ltd Attention: Mr Samuel Boucas Do Lago P O Box 97957 Maerua Mall Windhoek, Namibia

REPORT:

BACKGROUND INFORMATION DOCUMENT FOR EXPLORATION ACTIVITIES ON EPLs 7963,7973 & 8050 & 8051, KHOMAS/HARDAP REGION, NAMIBIA.

PROJECT NUMBER: ECC-88-398-BID-05-D

REPORT VERSION: REV 01

DATE: JULY 2022





Votorantim Metals Namibia (Pty) Ltd

TITLE AND APPROVAL PAGE

Project Name: Background information document for exploration activities on

EPLs 7963,7973 & 8050 & 8051, Khomas/Hardap Region,

Namibia.

Client Company Name: Votorantim Metals Namibia (Pty) Ltd

Client Name: Mr Samuel Boucas Do Lago

Authors: Monique Jarrett

Status of Report: For Public Review

Project Number: ECC-88-398-BID-05-D

Date of issue: July 2022

ENVIRONMENTAL COMPLIANCE CONSULTANCY CONTACT DETAILS:

We welcome any enquiries regarding this document and its content. Please contact:



Environmental Compliance Consultancy PO Box 91193, Klein Windhoek, Namibia

Tel: +264 81 669 7608

Email: <u>info@eccenvironmental.com</u>

DISCLAIMER

Environmental Compliance Consultancy (ECC) (Reg. No. CC 2013/11401) has prepared this report on behalf of the Proponent. This report has been authored by employees of ECC, who have no material interest in the outcome of this report, nor do any of the ECC team have any interest that could be reasonably regarded as being capable of affecting their independence in the preparation of this report. ECC is independent from the Proponent and has no vested or financial interest in the Project, except for fair remuneration for professional fees rendered which are based upon agreed commercial rates. Payment of these fees is in no way contingent on the results of this report or the assessment, or a record of decision issued by Government. No member or employee of ECC is, or is intending to be, a director, officer, or any other direct employee of the Proponent. No member or employee of ECC has, or has had, any shareholding in the project. Any personal views or opinions expressed by the writer may not necessarily reflect the views or opinions of Environmental Compliance Consultancy or its client.

Please note at ECC we care about lessening our footprint on the environment; therefore, we encourage that all documents are printed double sided.



Votorantim Metals Namibia (Pty) Ltd

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Votorantim Metals Namibia (Pty) Ltd

1 BACKGROUND INFORMATION DOCUMENT

1.2 Purpose of this document

Environmental Compliance Consultancy (ECC) has been contracted by Votorantim Metals Namibia (Pty) Ltd to conduct an environmental and social impact assessment (ESIA) and develop an environmental management plan (EMP), for exploration activities for base, rare and precious metals and industrial materials in the Khomas/Hardap Region, Namibia. Consistent with the Environmental Management Act, 2007 and its regulations. An environmental clearance certificate application will be submitted to the Ministry of Environment, Forestry and Tourism (MEFT) for the Project, which is the relevant authority to make a Record of Decision (RoD) with regards to the proposed project.

The purpose of this Background Information Document (BID) is to provide Interested and Affected Parties (I&APs) a background to the proposed Project and to invite I&APs to register as part of the Environmental Social Impact Assessment (ESIA) process.

All those who register as an I&AP will be kept informed throughout the ESIA process. Registration provides a platform for participants to submit comments, concerns, or recommendations regarding the proposed project. This BID includes the following information:

- The proposed project and location
- The necessity of the project, benefits or adverse impacts anticipated
- The alternatives within the project that will be considered and assessed
- How the ESIA process works
- The public participation process and how to become involved
- Next steps and the way forward

1.3 Description of the proposed project

The Proponent intends to carry out exploration activities of rare, base, and precious metals and industrial minerals on the Exclusive Prospecting Licences (EPLs) 7963, 7973, 8050 & 8051. The Proponent will conduct geological mapping, geochemical surveys, geophysical surveys, and core drilling.

The proposed Projects are located in the following areas. EPL 7963 is approximately 87 km southwest of Rehoboth and can be accessed via the B1 and then turn off onto the C24 in the Khomas/Hardap Region. EPL 7973 is approximately 95 km southeast of Windhoek. EPL 8050 and 8051 are located approximately 75 km southeast of Windhoek. These three EPLs can be accessed via the B6 road SE of Windhoek, Khomas Region as set out in Figure 1.

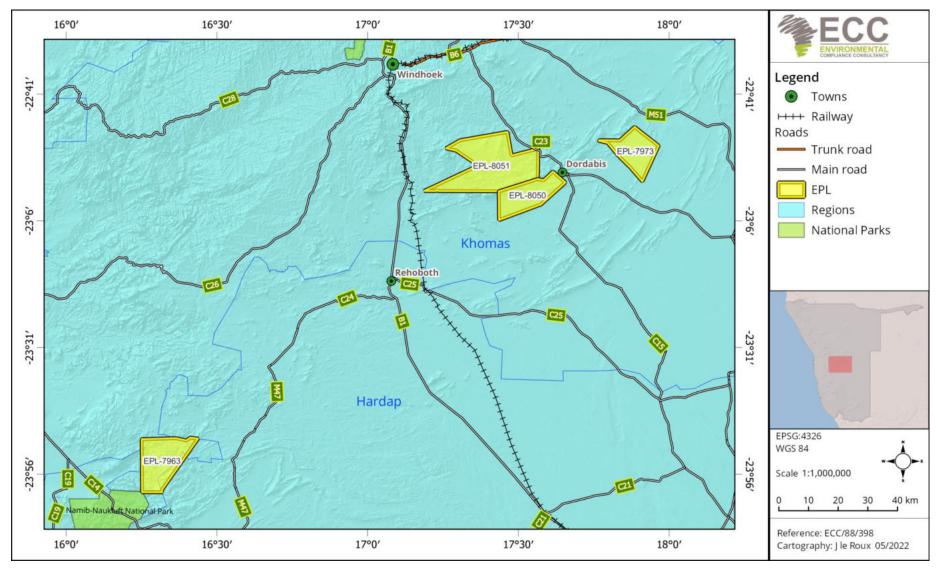


Figure 1 - EPL 7963, 7973, 8050 & 8051 Locality Map



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In terms of Section 32 (1) of the Environmental Management Act, No. 7 of 2007, ECC has determined that the Ministry of Mines and Energy (MME) is the competent authority for the proposed mining project. The mining activity triggers the listed activities as per the Environmental Management Act Regulations. The relevant activities list provided later in the BID.

1.4 NEED FOR THE PROJECT

The Proponent intends to pursue exploration activities in Namibia with the aim of identifying new mining prospects new mining activities could contribute to the national and local economies and may have a positive impact on the country's economy. Namibia's economy depends largely on mining.

Namibia is rich in natural resources and the minerals sector is a key contributor to the nation's GDP in Namibia. Exploration could lead to mining activities, which would contribute to the national and local economy. The project is consistent with the National development plan.

1.5 CONSTRUCTION AND OPERATIONAL PHASES

The following are envisioned during the proposed Project:

- Geological mapping
- Geo-chemical surveys

Soil samples will be collected, and the bulk samples will be stored while a small subsample will be dispatched to a laboratory further analysis.

- Geo-physical surveys
 - This will be carried out by collecting information through remote sensing and ground and airborne electromagnetic surveys.
- RAB, RC and diamond drilling



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2 CONSIDERATION OF ALTERNATIVES

Best practice environmental assessment methodology calls for consideration and assessment of alternatives to a proposed project. In a project such as this one, it is difficult to identify alternatives to satisfy the need of the proposed Project; the activities shall be specific to EPLs 7963, 7973, 8050 & 8051, which was granted by the MME to Votorantim Metals Namibia (Pty) Ltd.

During the ESIA assessment, alternatives will take the form of consideration of optimisation and using eco-friendly solutions to reduce potential impacts. Some aspects where alternatives may be required could include:

- Different types of technology or operation
- Different access routes
- Different exploration techniques



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3 THE ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT PROCESS

The ESIA for the proposed project is being conducted by ECC and will be undertaken in terms of the Environmental Management Act, 2007 and its regulations. The process followed for this ESIA is set out in the flowchart in Figure 2.

ECC has been contracted by Votorantim Metals Namibia (Pty) Ltd as the independent Environmental Assessment Practitioner (EPA) to facilitate the entire ESIA process. Prior to the start of the proposed project, an environmental clearance certificate is required in terms of the Environmental Management Act, 7 of 2007 and the associated EIA Regulations.

A final decision relating to the above-mentioned application will be made by Ministry of Environment, Forestry and Tourism (MEFT): Department of Environmental Affairs (DEA).

The related environmental process will include:

- 1. Screening phase (completed)
- 2. Scoping phase which includes baseline studies and the development of the Terms of Reference (ToR) for the ESIA (initiated)
- 3. Assessment Phase which includes impact prediction and evaluation of alternatives, assigning mitigation measures and developing monitoring and conceptual rehabilitation plans. This phase culminates in the drafting of the ESIA report and draft Environmental Management Plan (EMP) and submission to the appropriate competent authorities

The main objectives of the ESIA are to:

- a) Provide information describing the proposed exploration activities;
- b) Provide an independent environmental and social assessment of the activities associated with the proposed project; and
- c) Develop management and mitigation measures associated with any identified potential impacts where necessary.



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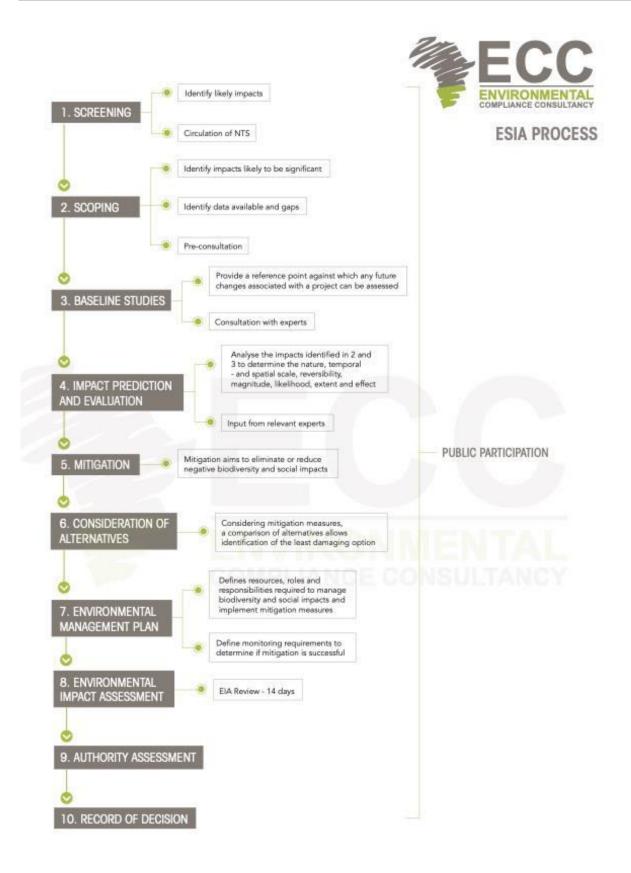


Figure 2 - Flowchart of the environmental and social assessment process



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3.1 Screening

A review of the planned project was undertaken and the screening findings against the listed activities were identified, the findings of which are summarised in Table 1.

Table 1- Listed activities triggered by the proposed project

LISTED ACTIVITY	EIA SCREENING FINDING
MINING AND QUARRYING ACTIVITIES	The proposed project has obtained an EPL from MME; now requires an
(3.1) The construction of facilities for any process or activities which	environmental clearance from DEA/MEFT for the search of base and
requires a licence, right or other forms of authorisation, and the	rare metals, industrial minerals and precious metals.
renewal of a licence, right or other forms of authorisation, in terms	
of the Minerals (Prospecting and Mining Act), 1992.	The proponent will be undertaking exploration activities on EPL
	7963,7973,8050 & 8051 which will include geochemical surveys,
(3.2) Other forms of mining or extraction of any natural resources	geophysical surveys and RAB and RC drilling.
whether regulated by law or not.	
(2.2) December of the chief of the control of the control of the chief	
(3.3) Resource extraction, manipulation, conservation, and related activities	
activities	
WASTE MANAGEMENT, TREATMENT, HANDLING AND	3
DISPOSAL ACTIVITIES	during the exploration phase will be removed by a skip and will be
(2.1) The construction of facilities for waste sites, treatment of	disposed of at the nearest landfill site.
waste and disposal of waste.	
	Waste will be recycled, to the extent possible.
(2.3) The import, processing, use and recycling, temporary storage,	
transit or export of waste.	A portable toilet, long drop hole for a toilet or chemical toilets will be
	used during exploration activities by the diamond drill crew.



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LISTED ACTIVITY	EIA SCREENING FINDING
FORESTRY ACTIVITIES (4.) The clearance of forest areas, deforestation, aforestation, timber harvesting or any other related activity that requires authorisation in term of the Forest Act, 2001 (Act No. 12 of 2001) or any other law.	Limited vegetation clearing may be required for tracks and survey access creation, and possibly for the set up for survey and drilling teams' field camps. Clearing of large trees will be avoided.
WATER RESOURCE DEVELOPMENTS (8.1) The abstraction of ground or surface water for industrial or commercial purposes.	For the drilling of exploration boreholes, ground water may need to be abstracted, or water will be sourced.
HAZARDOUS SUBSTANCE TREATMENT, HANDLING AND STORAGE (9.2) Any process or activity which requires a permit, licence or other form of authorisation, or the modification of or changes to existing facilities for any process or activity which requires an amendment of an existing permit, licence or authorisation or which requires a new permit, licence or authorisation in terms of a law governing the generation or release of emissions, pollution, effluent or waste.	 Portable toilets, long drop holes for toilets, or chemical toilets will be used during the exploration activities. Bulk fuel may be required for the onsite generation of electricity, and for refuelling the prospecting crews and fleet. Consumer installation certificates are required for bulk fuel storage and dispensing. Smaller volumes of hazardous chemicals (oil, grease, diesel etc.) will be stored in drip trays to avoid contamination/pollution. MSDS sheets will be kept onsite, accessible and used for all dangerous materials, chemicals, solvents, lubricants and related substances. The MSDS sheets ensure proper transport, handling, storage, use, disposal and response in the event of an incident.



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3.2 SCOPING

The scoping phase is directed towards defining the range and nature of anticipated potential impacts that may have significance to the biophysical and social environments at the scale of the proposed operations. The appropriate available data and the literature are identified forming the starting point for the assessment of the required baseline and specialist studies that may be required for assessment of the project impacts.

3.3 BASELINE STUDIES

The ESIA will focus on the environmental receptors that could be affected by the proposed project. ECC will also engage with stakeholders, I&APs and the proponents to seek input into the assessment. The baseline studies chapter is divided into three sections:

- The baseline context,
- Environmental (physical and biological), and
- Social (including economic).

Desktop studies a well as all available field surveys and specialist studies from the project area will be used to help define the baseline. These studies also give a further indication whether there are any local or regional future developments that could impact the project or vice versa.

Lastly the socio-economic section of the baseline studies helps to gain information on the governance, demographic profile, social stratification (employment, education, crime, infectious disease), occupation and livelihood (economic activities, occupations in study area, employment rates), land patterns (noise and vibrations) and access to services (drinking water, sanitation, healthcare facilities etc.).

3.4 TERMS OF REFERENCE

Based on the stakeholder engagement through the defined public consultation process including any written correspondence and the baseline studies, the ToR for the impact assessment will be finalised and confirmed with the Environmental Commissioner.

3.5 STAKEHOLDER ENGAGEMENT

The public and key stakeholders receive invitations to register as I&APs. After the presentation of the proposed project and ESIA process through he defined public consultation process, a period of time for input will be granted for the Environmental Assessment Practitioner (EAP) to receive any additional concerns or comments from registered I&AP's. All feedback from the initial public consultation process will be incorporated into the scoping report.



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3.6 SCOPING REPORT

The scoping report will be drafted and made available to the registered I&APs for comment before being submitted to the competent authority and MEFT. The scoping report will contain a description of the project and the biophysical and socio-economic environments, the specialist baseline studies, the stakeholder engagement report and the terms of reference for the ESIA.

3.7 Environmental and social impact assessment phase

3.7.1 POTENTIAL IMPACTS

The potential social and economic impacts should be considered with due regard to the nature and scale of the proposed operations its location within the broader ecological, commercial and social environments. The potential environmental and social impacts that have been anticipated may include the following:

- Power and water supply;
- Water use, contamination, and management;
- Waste management;
- Waste resource management;
- Visual impacts;
- Biodiversity impacts;
- Jobs will be created as a result of the proposed exploration activities;
- Potential to unearth, damage or destroy undiscovered heritage remains;
- Occupational health and safety; and
- Minor disruptions to residents of neighbouring farms, due to potential noise and dust generation as a result of the proposed exploration activities.

3.7.2 DRAFT ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

An EMP shall be developed for the proposed project setting out auditable management actions for the project to ensure careful and sustainable management measures are implemented for their activities in respect of the surrounding environment and community. The EMP becomes the legally binding commitments upon approval of the EMP and issuing of the environmental clearance certificate. Environmental clearance certificates are issued for a period of 3 years and renewal is subject to compliance with the provisions and conditions of the environmental clearance certificate.



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4 THE WAY FORWARD - PUBLIC PARTICIPATION

Public participation is an important part of the ESIA process. It allows you, the public and stakeholders to raise concerns or provide valuable local environmental knowledge that can benefit the assessment process as well as aid the planning process for the scoping phase of the defined assessment process. At this phase ECC will perform the following:

- Prepare and submit the application for the environmental clearance certificate in the prescribed manner
- Identify relevant key stakeholders, authorities, municipalities, environmental groups and interested or affected members of the public, hereafter referred to as I&APs
- Carry out a public consultation process in accordance with Regulation 21 of the EMA 2007 including:
 - Distribute the BID for the proposed Votorantim Metals Namibia (Pty) Ltd exploration project (this document)
 - Advertise the environmental application and call for registration of I&APs in two national newspapers
 - Open the project I&AP register and record all comments of I&APs and present both comments and responses provided by ECC, in the comments and responses report, which will be included in the scoping report and submitted with the application
- Prepare a scoping report and provide it to registered I&APs for comment
- Submit the scoping report and the I&AP comments to the competent authority and Environmental Commissioner for a record of decision

Your request for registration as an I&AP as well as any comments on the BID or Project must be submitted in writing and can be emailed using the details in the contact us section below. Registration as an I&AP for the project can be completed online on ECCs website on the projects page, or by using this link: https://eccenvironmental.com/download/the-proposed-exploration-activities-on-epls-79637973-8050-8051-for-base-and-rare-metals-and-industrial-minerals-and-precious-metals-hardap-khomas-region-namibia/">https://eccenvironmental.com/download/the-proposed-exploration-activities-on-epls-79637973-8050-8051-for-base-and-rare-metals-and-industrial-minerals-and-precious-metals-hardap-khomas-region-namibia/">https://eccenvironmental.com/download/the-proposed-exploration-activities-on-epls-79637973-8050-8051-for-base-and-rare-metals-and-industrial-minerals-and-precious-metals-hardap-khomas-region-namibia/

Registration as an I&AP should be submitted on or before **26 July 2022**.

We welcome any enquiries regarding this document and its content. Please contact:

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