

Environmental Scoping Assessment (ESA) Study Report:

The Proposed Exploration Activities on Exclusive Prospecting Licenses (EPLs) No. 9885 & 9985 near Arandis Town in the Erongo Region - <u>An Application for Environmental Clearance Certificate (ECC)</u>













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Declaration of authorship

APPLICATION NUMBER: 005192 **Project Title:** The Proposed Exploration activities on Exclusive Prospecting License (Epls) NO. 9883 & 9985 near Arandis in the Enongo Region: Application Enummental Cleanne Certificate: Fredrika Shagama (full name of Environmental Assessment Practitioner - EAP) understand and agree that the information I have furnished in this submission will be reviewed by the Office of the Environmental Commissioner (OEC). I accept that the Environmental Commissioner, will hold me accountable in terms of Section 43(1)(b) of the Environmental Management Act, Act No. 7 of 2007 for any inaccurate or misleading information knowingly provided in the following documentation. Tick the box (es) applicable to your submission: ☐ Pro Forma Environmental Contract for Mining Claim(s) ☐ Environmental Questionnaire For Mining Scoping report ☐ Environmental Impact Assessment (EIA) Environmental Management Plan (EMP), Consent from Relevant Authority (De-Gan Traditional Authority) I certify, and, acknowledge that the provision of such information will impede the lawful carrying out of the duties, responsibilities and functions of the Environmental Commissioner. I declare that the information submitted is my own work. All direct or indirect sources used are acknowledged as references. consultancy Name: Serja HGE Consultants CC

DOCUMENT INFORMATION

Title: Environmental Scoping Assessment (ESA) Study Report for the Proposed Exploration Activities on Exclusive Prospecting Licenses (EPLs) No. 9885 & 9985 near Arandis Town in the Erongo Region – An Application for Environmental Clearance Certificate (ECC)

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SERJA'S STATEMENT OF INDEPENDENCE

As the Appointed Environmental Consultant to undertake the Environmental Scoping Assessment (ESA) Study for the proposed Exploration Activities on Exclusive Prospecting Licenses (EPLs) No. 9885 & 9985 near Arandis Town in the Erongo Region, Serja Hydrogeo-Environmental Consultants cc declare that we:

- do not have, to our knowledge, any information or relationship with Mr. Tarah Hainana (the Proponent), the Ministry of Environment, Forestry and Tourism (MEFT)'s Department of Environmental Affairs and Forestry (DEAF) or the Competent Authority (Ministry of Mines and Energy (MME) that may reasonably have potential of influencing the outcome of this Environmental Assessment and the subsequent Environmental Clearance Certificate (ECC) applied for.
- have knowledge of and experience in conducting environmental assessments, the Environmental Management Act (EMA) No. 7 of 2007, and its 2012 Environmental Impact Assessment (EIA) Regulation, as well as other relevant national and international legislation, guidelines, policies, and standards that govern the proposed project as presented herein.
- have performed work related to the ECC application in an objective manner, even if the results in views and findings, or some of these may not be favorable to the Proponent.
- have complied with the EMA and other relevant regulations, guidelines, and other applicable laws as listed in this document.
- declare that we do not have and will not have any involvement or financial interest in the
 undertaking/implementation of the proposed project, other than remuneration (professional fees)
 for work performed to conduct the ESA and apply for the ECC in terms of the EIA Regulations'
 requirement as an Environmental Assessment Practitioner (EAP).

<u>Disclaimer:</u> Serja Hydrogeo-Environmental Consultants will not be held responsible for any omissions and inconsistencies that may result from information that was not available at the time this document was prepared and submitted for evaluation.

.....

FALShafama

Signature:

Fredrika N. Shagama: Principal Environmental Assessment Practitioner & Hydrogeologist

Date: September 2025

EXECUTIVE SUMMARY

Tarah Hainana (hereinafter referred to as the Proponent) applied to the Ministry of Mines and Energy (MME) (now Ministry of Industries, Mines and Energy (MIME)) for the exploration rights on two Exclusive Prospecting Licences (EPLs), i.e., EPL-9885 and EPL-9985, on the 20th of December 2023 and 3rd of April 2024, respectively. However, the approval of the EPLs is subject to an Environmental Clearance Certificate (ECC) as per the status of the EPL applications on the Namibia Mines and Energy Cadastre Map Portal https://portals.landfolio.com/namibia/ (''pending ECC''). The two EPLs have the potential for nuclear fuel minerals (uranium). Thus, upon granting the EPL rights by the MIME, the Proponent intends to prospect and explore within the boundaries of the EPLs.

EPL-9885 covers an area of 23,073.1506 hectares (Ha), whereas EPL-9985 covers an area of 19,978.5782Ha (totalling a combined area of 43,051.7288Ha). EPL-9985 is about 20km northeast of Arandis, and EPL-9885 is about 40km further northeast of Arandis and stretches towards Grootspitskop (Spitzkoppe) in the Erongo Region. Both EPLs are within the #Gaingu Conservancy under the Oe-Gan Traditional Authority.

Proposed Project Activities

The project will be carried out using two groups of techniques:

- Non-invasive technique (Desktop Study). During the prospecting and exploration phase, the vital
 components include reviewing existing reports and composite stratigraphic, lithologicalgeochemical maps of the targeted areas to identify prospective lithostratigraphic packages. In
 addition to the literature review, fieldwork (lithological (soil/rock) mapping and sampling) will be
 conducted to verify desktop work. These works do not require physical disturbance.
- Invasive techniques (Detailed exploration): This will entail the verification of information collected during the desktop study and survey, and obtaining more/detailed information about the EPL. The invasive techniques include soil sampling, trenching, and drilling.

Communication with I&APs and Means of Consultation Employed

Communication with I&APs concerning the proposed development was facilitated through the following means and in this order:

- A Background Information Document (BID) containing brief information about the proposed project
 was compiled and hand-delivered to the Ministry of Environment, Forestry and Tourism (MEFT),
 accompanying the ECC application, and uploaded on the MEFT (ECC) Portal for project
 registration and shared with registered Interested and Affected parties (I&APs).
- Project Environmental Assessment notices were published in the New Era and Windhoek Observer newspapers dated 22 and 28 January 2025. The consultation period ran from the 22nd of January 2025 to the 21st of February 2025. To allow time for comments after the consultation meetings in

- August 2025, the comment period was extended to 29 August 2025 (as indicated on the BID and EIA poster placed in Spitzkoppe and Usakos).
- The consultation meetings were held with key stakeholders of the area (Oe-Gan Traditional Authority with the Chief of the area (Chief Immanuel Gaseb) in Windhoek on the 2nd of April 2025. A combined meeting between the #Gaingu Conservancy and the Oe-Gan Traditional Authority senior councilors was held on the 15th of August 2025 in the Spitzkoppe Settlement. The meeting minutes were taken. The consent letters were issued by the two key stakeholders (Oe-Gan Traditional Authority and #Gaingu Conservancy).
- An EIA poster was placed at the frequented main market in Usakos (OK Supermarket) public notice board and at Mini Shop in Spitzkoppe Settlement.
- Some key potential positive and negative impacts were identified by the Environmental Consultant.

 A few issues and comments were raised by the stakeholders in the meeting, as follows:
 - 1. The issue of mineral explorers (proponents) leaving unrehabilitated holes that are not closed or backfilled after exploration activities. This is a safety concern.
 - 2. The need for accountability to make sure that the holes and trenches are backfilled. It is advised to have representatives from both the Traditional Authority and Conservancy present during rehabilitation. This is aimed at conducting inspections and reporting back for sign off (that the stakeholders and community are satisfied with the rehabilitation efforts made).
 - 3. The issue of compensation for affected communities that farm in the area and would need to be relocated or move away, should the EPLs advance to the mining stage. It was explained that for the exploration stage (for which the EIA study and ECC application are carried out and made, respectively), there will be no community relocation since exploration activities would be done at selected site areas. The mining-related impacts, such as relocation or resettlement of affected communities, would be discussed if and when the EPLs or one of the EPLs displays good results to advance to the mining stage. Therefore, any issues related to the mining stage, including potential relocation of communities, would be discussed at that time (in the mining EIA study) and not in the exploration stage.
 - 4. The impact of nuclear fuel minerals (uranium) on groundwater during exploration, which may affect water quality, which is needed for ecosystems, and the fact that the EPLs are within a conservancy.

The comments provided do not halt or object to the proposed project activities, but were meant to contribute to the improvement of the EMP and ensure that the biological, physical, and social environments are protected during the implementation and after completion of the project activities.

<u>Impact Assessment:</u> The key negative impacts were described and assessed. The potential negative impacts indicated a medium level of significance. To minimize the significance, appropriate management and mitigation measures are made for implementation by the Proponent, their contractors, and workers to avoid and/or minimize their significance on the environmental and social components. The effective implementation of the recommended management and mitigation measures, accompanied by monitoring, will particularly see the reduction in the significance of adverse impacts that cannot be avoided completely (from medium rating to low).

Conclusions

The public was notified as required by Sections 21 to 24 of the EIA Regulations by placing adverts in three newspapers (*New Era and Windhoek Observer*) dated 22 and 28 January 2025. Consultation meetings were held with key stakeholders (Oe-Gan Traditional Authority and the #Gaingu Conservancy Management) on the 15th of August 2025 in Spitzkoppe. The comment period was extended to the 29th of August 2025 to allow time after the meetings.

Apart from the necessary Archaeological and Heritage Impact Assessment (AHIA), which is required by the National Heritage Council for evaluation and issuance of the heritage consent for the MEFT, no other or further detailed assessments are required for the EIA Scoping Study for the proposed prospecting and exploration activities. Therefore, the study was deemed sufficient and concluded that no further assessments are required for the ECC application for the prospecting and exploration activities.

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

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

- All the management and mitigation measures provided herein are effectively and progressively implemented.
- All required permits, licenses, and approvals for the proposed activities should be obtained as required. These include permits and licenses for land use agreements, service provision agreements (water provision), and exploring and ensuring compliance with these specific legal requirements.
- Transparency, timely communication, and continued engagement with key stakeholders (Oe-Gan Traditional Authority and the #Gaingu Conservancy) before and during exploration should be maintained throughout the project.

- The Proponent, their project workers or contractors, comply with the legal requirements governing
 their project and its associated activities and ensure that project permits and or approvals required
 to undertake specific site activities are obtained and renewed as stipulated by the issuing
 authorities.
- Site areas where exploration activities have ceased are rehabilitated, as far as practicable, to their
 pre-exploration state. This includes the levelling of stockpiled topsoil, backfilling of exploration
 trenches, and closing/capping of exploration holes.
- Respecting no-go zone areas and avoiding exploring within buffer zones should be effectively implemented.

To maintain the desirable rating and ensure that the potential impacts are under control, the implementation of management and mitigation measures should be monitored by the Environmental Control Officer (ECO) and audited by an Independent Environmental Consultant on a bi-annual basis. The monitoring of this implementation will not only be done to maintain the reduced impacts rating or maintain a low rating, but also to ensure that all potential impacts that might arise during implementation are properly identified in time and addressed immediately.

TABLE OF CONTENTS

D	OCUM	ENTINFORMATION	l
Е	XECUT	IVE SUMMARY	iii
Т	ABLE C	DF CONTENTS	vii
L	IST OF	FIGURES	ix
L	IST OF	TABLES	ix
L	IST OF	APPENDICES	ix
L	IST OF	ABBREVIATIONS	x
G	LOSSA	RY (KEY TERMS)	xi
1	INT	RODUCTION	1
	1.1	Project Background and Location	1
	1.2	The Need and Desirability of the Proposed Project	2
	1.3	The Need for an ESA and Environmental Clearance Certificate (ECC)	3
	1.4	Appointed Independent Environmental Consultant	3
	1.5	Application for the Environmental Clearance Certificate	
	1.6	Scope of Work and Report Contents	4
2	DES	SCRIPTION OF THE PROPOSED PROJECT ACTIVITIES	
	2.1	Duration of Mineral Exploration	
	2.2	Exploration Methods for Nuclear Fuel Minerals	6
	2.2.		
	2.2.		
	2.3	Project Resources and Services Infrastructure	
	2.3.		
	2.3.	•	
	2.3.		
	2.3.	,,,,	
	2.3.		
	2.3.		
	2.3.		
	2.3.	· ·	
	2.3.	•	
	2.4	Decommissioning and Rehabilitation of Disturbed Sites	
2	2.5	Post-Exploration Activities	
3	3.1	DJECT ALTERNATIVES The "No-Go" Alternative	
	3.1		
	3.Z	Exploration Location	14

Environmental Scoping Report

	3.3	Exploration Methods	15
	3.4	Services Infrastructure	15
4	APF	PLICABLE LEGAL FRAMEWORK	16
	4.1	Environmental Management Act No. 7 of 2007	16
	4.2	Minerals (Mining & Prospecting) Act No. 33 of 1992	16
5	BIO	PHYSICAL AND SOCIAL BASELINE	22
	5.1	Biological Environment	22
	5.1.	1 Fauna	22
	5.1.	2 Flora	23
	5.2	Physical Environment	24
	5.2.	1 Climate	24
	5.2.	2 Landscape and Topography	25
	5.2.	3 Geology and Soils	25
	5.2.	Water Resources: Groundwater (Hydrogeology) and Surface Water (Hydrology)	28
	5.3	Social and Economic Environment	29
	5.3.	1 Demography	29
	5.3.	2 Economic Activities	30
	5.3.	3 Infrastructure and Services	31
	5.3.4	4 Land Uses: Conservancies	32
	5.4	Archaeology and Heritage Aspect	32
	5.4.	On-site findings: Sensitivity of the Receiving Environs	32
	5.4.	Identification of the Archaeological and Heritage Sensitivity	33
6	PUE	BLIC CONSULTATION AND PARTICIPATION PROCESS	35
	6.1	Pre-identified and Registered Interested and Affected Parties (I&APs)	35
	6.2	Communication with I&APs and Means of Consultation Employed	35
7	IMP	ACTS IDENTIFICATION, ASSESSMENT, AND MEASURES	38
	7.1	Identification of Potential Impacts	38
	7.2	Impact Assessment Methodology	39
	7.3	Impact Significance	40
	7.4	Description and Assessment of Potential Impacts	41
	7.5	Cumulative Impacts Associated with the Proposed Exploration	56
8	CON	NCLUSIONS	57
α	1107	OF DEFEDENCES	50

LIST OF FIGURES

	ality Map of EPL-9885 & 9985 near Grootspiskop (Spitzkoppe) and Arandis, respec	
in the Erongo R	Region	1
	e location of EPL-9885&9985 within the #Gaingu Conservancy	
	e Mineral Exploration Cycle (Excel Dynamic Solutions, 2021)	
	amples of soil sample collection and equipment (RES, 2019)	
•	pical drill rig on an EPL (Resilient Environmental Solutions, 2019), B- drill rig on act	
•	n site visited by the Author in Erongo Region (photo by Author, 2022)	
-	rill rig on an EPL in the Omaheke Region (Resilient Environmental Solutions, 2022)	
-	ne local goats grazing within EPL-9885 near Spitzkoppe	
•	minant vegetation map within and around the EPLs	
-	served shrubs of red within the EPL-9885 (A $-$ top 3 photos) and EPL-9885 (B $-$ bot	
•	sing quiver trees, Damara milk-bush, and rock corkwood shrubs)	
	e topography and landscape of the area within and around the EPLs	
	geology of the EPLs and the surrounding area	
-	crops of diorite, granite, schist, and quartzite within the two EPLs	
	e soil covered by grass, calcrete, and protruding rock (dolerite) outcrops	
	e dominant soil types found within the EPL	
-	e surface and groundwater map of the two EPLs	
	ne surface and groundwater map of the two EPLs	
	ne mineral licenses around EPL-9885 and EPL-9985	
-	ne Landscape Archaeological Map (Mushi, 2025)	
	ne Archaeological findings map (Mushi, 2025)	
	EIA Consultation meeting with the Oe-Gan Chief in Windhoek on the 2 nd of April 20	
_	EIA Consultation meeting in progress at the Spitzkoppe Community Centre on the	
•		
Figure 6-3: The	e EIA poster in Usakos and Spitzkoppe	37
	DI FC	
LIST OF TAI	BLES	
	presentation of service infrastructure alternatives considered for the project activitie	
	of applicable legislation for the proposed prospecting and exploration activities on th	
	eria used for impact assessment (extent, duration, intensity, and probability)	
	act significance rating scale	
	Description and Assessment of the impacts of exploration activities on the biophysic	
social environm	nent	42
LIST OF API	PENDICES	
Appendix A:	Draft Environmental Management Plan (EMP)	
Appendix B:	Curriculum Vitae (CV) of the responsible Environmental Assessment Prac	titioner
(EAP)		
Appendix C:	EIA Notification in the newspapers	
Appendix D:	Minutes from the Consultation Meetings with key stakeholders / interested & affect	ted
parties (I&APs)	e de la companya de	

Appendix E: Consent Letters from the Oe-Gan Traditional Authority and #Gaingu Conservancy

Appendix F: Copy of the EIA poster placed in Usakos and Spitzkoppe

LIST OF ABBREVIATIONS

Abbreviation	Meaning
AHIA	Archaeological & Heritage Impact Assessment
BID	Background Information Document
CITES	Convention on International Trade in Endangered Species of Wild Fauna and Flora
CSR	Corporate Social Responsibility
DEAF	Department of Environmental Affairs and Forestry
EAP	Environmental Assessment Practitioner
ECC	Environmental Clearance Certificate
EIA	Environmental Impact Assessment
EMA	Environmental Management Act
EMP	Environmental Management Plan
EPL	Exclusive Prospecting License
ESA	Environmental Scoping Assessment
GG	Government Gazette
GN	Government Notice
I&APs	Interested and Affected Parties
IFC	International Finance Corporation
MAWLR	Ministry of Agriculture, Water and Land Reform
MEFT	Ministry of Environment, Forestry and Tourism
MIME	Ministry of Industries, Mines and Energy
NACSO	Namibian Association of CBNRM (Community-based Natural Resource Management) Support Organisations
NHC	National Heritage Council (NHC) of Namibia
OGTA	Oe-Gan Traditional Authority
PPE	Personal Protective Equipment
Reg	Regulation
S	Section

Abbreviation	Meaning
TA	Traditional Authority

GLOSSARY (KEY TERMS)

Term	Definition
Alternative	A possible course of action, in place of another that would meet the same purpose and need of the proposal.
	Baseline - Work done to collect and interpret information on the condition/trends of the existing environment.
Biophysical	The part of the environment that does not originate with human activities (e.g., biological, physical, and chemical processes).
Cumulative Impacts / Effects Assessment	In relation to an activity, it means the impact of an activity that, in itself, may not be significant but may become significant when added to the existing and potential impacts eventuating from similar or diverse activities or undertakings in the area.
Decision-maker	The person(s) entrusted with the responsibility for allocating resources or granting approval to a proposal
Ecological Processes	Processes that play an essential part in maintaining ecosystem integrity. Four fundamental ecological processes are the cycling of water, the cycling of nutrients, the flow of energy, and biological diversity (as an expression of evolution).
Environment	As defined in Environmental Management Act - the complex of natural and anthropogenic factors and elements that are mutually interrelated and affect the ecological equilibrium and the quality of life, including – (a) the natural environment that is land, water, and air; all organic and inorganic matter and living organisms and (b) the human environment that is the landscape and natural, cultural, historical, aesthetic, economic and social heritage and values.
Environmental Management Plan (Draft EMP)	As defined in the EIA Regulations (Section 8(j)), a plan that describes how activities that may have significant environmental effects are to be mitigated, controlled, and monitored.
Exclusive Prospecting Licence	A license that confers exclusive mineral prospecting rights over land of up to 1000km² in size for an initial period of 3 years, renewable twice for a maximum of 2 years at a time.
Interested and Affected Party (I&AP)	In relation to the assessment of a listed activity, it includes - (a) any person, group of persons, or organization interested in or affected by an activity; and (b) any organ of state that may have jurisdiction over any aspect of the activity. Mitigate - practical measures to reduce adverse impacts. Proponent – as defined in the Environmental Management Act, a person who proposes to undertake a listed activity. Significant impact - means an impact that by its magnitude, duration, intensity, or probability of occurrence may have a notable effect on one or more aspects of the environment.
Fauna and Flora	The animals and plants found in an area.

Term	Definition
Mitigation	The purposeful implementation of decisions or activities that are designed to reduce the
	undesirable impacts of a proposed action on the affected environment
Monitoring	Activity involving repeated observation, according to a pre-determined schedule, of one
	or more elements of the environment to detect their characteristics (status and trends).
Proponent	Organization (private or public sector) or individual intending to implement a development
	proposal.
Public Consultation/Involvement	A range of techniques can be used to inform, consult, or interact with stakeholders
	affected by the proposed activities.
Protected Area	Refers to a protected area that is proclaimed in the Government Gazette according to the
	Nature Conservation Ordinance number 4 of 1975, as amended.
Scoping	An early and open activity to identify the impacts that are most likely to be significant and
	require specialized investigation during the EIA work. It can also be used to identify
	alternative project designs/sites to be assessed, obtain local knowledge of the site and
	surroundings, and prepare a plan for public involvement. The results of scoping are
	frequently used to prepare a Terms of Reference for the specialized input into a full EIA.

1 INTRODUCTION

1.1 Project Background and Location

Tarah Hainana (hereinafter referred to as the Proponent) applied to the Ministry of Mines and Energy (MME) (now Ministry of Industries, Mines and Energy (MIME)) for the exploration rights on two Exclusive Prospecting Licences (EPLs), i.e., EPL-9885 and EPL-9985, on the 20th of December 2023 and 3rd of April 2024, respectively. However, the approval of the EPLs is subject to an Environmental Clearance Certificate (ECC) as per the status of the EPL applications on the Namibia Mines and Energy Cadastre Map Portal https://portals.landfolio.com/namibia/ ("pending ECC"). The two EPLs have the potential for nuclear fuel minerals (uranium). Thus, upon granting the EPL rights by the MIME, the Proponent intends to prospect and explore within the boundaries of the EPLs.

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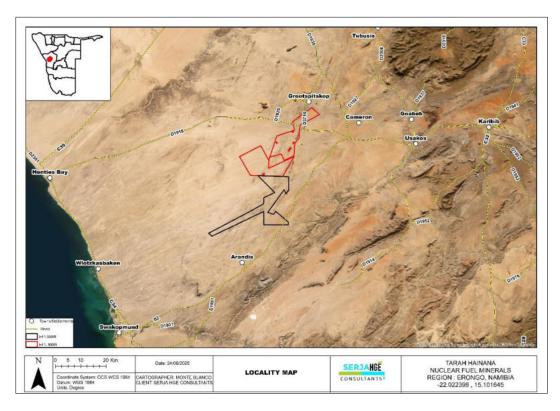


Figure 1-1: Locality Map of EPL-9885 & 9985 near Grootspiskop (Spitzkoppe) and Arandis, respectively, in the Erongo Region

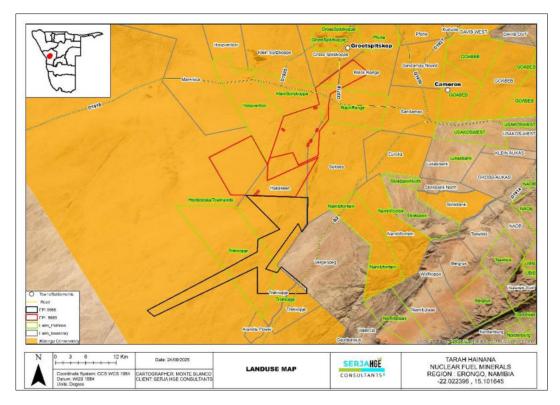


Figure 1-2: The location of EPL-9885&9985 within the #Gaingu Conservancy

1.2 The Need and Desirability of the Proposed Project

The Proponent is committed to contributing to the socio-economic development of Namibia through different industrial sectors, which include mining, which contributes about 12% towards the country's Gross Domestic Product (GDP). The proposed prospecting and exploration activities on EPL-9885 and EPL-9985 have great potential to enhance and contribute to the development of other sectors, and their activities provide temporary employment, taxes, and levies, as well as social responsibilities. Additionally, the industry produces a trained workforce and small businesses that can serve communities and may initiate related businesses. The successful exploration of the EPL would then lead to the mining of economically feasible commodities (ies) based on the results of exploration. This would contribute towards achieving the goals of the national development plans, such as the National Development Plan 5 (NDP5) and Harambee Prosperity Plans (HPPs) I and II. Mining is therefore essential to the development goals of Namibia in contributing to meeting the ever-increasing global demand for minerals and for national prosperity. Thus, a need for exploration activities.

1.3 The Need for an ESA and Environmental Clearance Certificate (ECC)

Prospecting, exploration of, and mining of mineral resources is one of the listed activities in the Environmental Impact Assessment (EIA) Regulations (2012) of the Environmental Management Act (EMA) No. 7 of 2007 that may not be undertaken without an Environmental Clearance Certificate (ECC). The activities that are relevant to the proposed project are as follows:

- 3.1 The construction of facilities for any process or activities which require a license, right of other forms of authorization, and the renewal of a license, right, or other form 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 purpose of the ESA Study and subsequent issuance of the ECC is therefore to ensure that the proposed project activities are undertaken in an environmentally & socially friendly and sustainable manner, through the effective implementation of recommended environmental management measures to minimize the adverse identified impacts while maximizing the positive impacts.

1.4 Appointed Independent Environmental Consultant

To comply with the EMA and its Regulations and ensure environmental management, protection, and sustainability, the Proponent appointed Serja Hydrogeo-Environmental Consultants CC, Independent Environmental Consultants, to apply for the ECC and conduct the required Environmental Assessment Process, which includes Public Consultation and prepare the Environmental Assessment Report and Management Plan (EMP) - Appendix A.

The ESA process, including public consultation and engagement as well as compilation of the associated documents, was conducted and compiled by Ms. Fredrika Shagama. Ms. Shagama is a qualified and experienced Hydrogeologist and Environmental Assessment Practitioner (EAP) by training, with 10 years' experience in Groundwater and Environmental Management Consulting. Her CV is attached to this Report as Appendix B.

1.5 Application for the Environmental Clearance Certificate

The application for the ECC process was done as follows:

- Preparation of the Background Information Document (BID) for the proposed project,
- Launching of the ECC application on the ECC Portal of the Ministry of Environment, Forestry and Tourism (MEFT) with the Proponent details (accompanied by the BID) for project registration purposes and obtaining a MEFT application/reference number (APP-005192),

- Completion of Form 1 (Section 32) of the EIA Regulations with the required project and Proponent information,
- Submission of the printed hard copy of the ECC application (with affixed NAD300 revenue stamps
 as application fees). The MEFT's date-stamped copy of the ECC application (Appendix B) was
 uploaded on the ECC Portal as proof of application and payment.

The next component of the ECC application was to undertake an Environmental Scoping Assessment (ESA) process, which entails a Baseline Assessment of the Biophysical and Social environments, as well as Public Consultation & Engagement. The findings of the ESA process are then incorporated into an ESA Report, and a Draft EMP is also developed for the mitigation of potential adverse impacts anticipated from the proposed project activities. The two documents and associated documents (appendices) are then submitted to the Environmental Commissioner at MEFT's Department of Environmental Affairs and Forestry (DEAF) for evaluation and consideration of the ECC.

1.6 Scope of Work and Report Contents

This Study has been conducted according to the EMA No. 7 of 2007, and its 2012 EIA Regulations, as mentioned in the preceding subsections, i.e., the proposed project may not be undertaken without an ECC. Therefore, the process has been undertaken as required and guided by the Regulations. Furthermore, the ECC is required by the MME for consideration to renew the expired EPL rights.

This Report has been compiled as a required output of an environmental assessment process. The ESA Report, together with the EMP and all its appendices, will be submitted to the DEAF.

The document (Report) covers the following chapters or sections, in addition to the introductory chapter:

- Project description and associated activities (Chapter 2).
- Project alternatives considered (that were found to be environmentally friendly and technically feasible) - Chapter 3.
- The Legal requirements governing the proposed project and its related activities, i.e., the legislation that the proposed project must comply with (Chapter 4).
- The Environmental and Social Baseline of the project area Chapter 5.
- The Public Consultation & Engagement Process undertaken to inform, invite and engage the public (stakeholders and interested & affected parties) on the proposed project- Chapter 6.

- The Assessment of identified potential impacts associated with the proposed project (Chapter 7) This chapter presents both the positive and negative (adverse) as well as cumulative impacts,
 assessment methodology, and the assessment of the negative impacts. The mitigation measures
 in the form of management action plans, with a timeframe and implementation responsibilities, are
 given in the Draft Environmental Management Plan (EMP) under Appendix C.
- The recommendations and conclusions of the environmental assessment are presented in Chapter
 The data sources (literature/references) consulted for the assessment are listed under Chapter
 9.

Based on the information provided by the Proponent and the EAP's experience, a description of the project activities is presented in the next chapter.

2 DESCRIPTION OF THE PROPOSED PROJECT ACTIVITIES

It should be noted that this EIA Study is for exploration activities ONLY and not mining because mining cannot be done on EPLs. This means that if exploration yields economically feasible results, mining licenses would be applied for after exploration, of which different EIA Studies would be conducted to apply for mining licenses, i.e., to convert EPLs into mining licenses at a later stage.

Before undertaking the proposed activities on the EPLs, the Proponent must obtain consent and sign land use agreements with the Oe-Gan Traditional Authority and the Gaingu Conservancy.

2.1 Duration of Mineral Exploration

The exploration programmes are based on an iterative, results-driven, and phased nature. Therefore, it is not possible at an early stage of exploration to give exact areas for future drilling or an exact duration of the exploration activities (Resilient Environmental Solutions, 2019). Soil sampling programmes, for instance, may last from one week to a month at a time over specific areas, until the explored area is fully sampled as desired. Drilling programmes may initially range from two weeks to a month at a time, depending on the planned programme or based on the results of the programme. The Proponent undertakes to work with all relevant stakeholders to keep them informed of exploration progress to facilitate site visits and access to ongoing field exploration programmes.

In general terms, the minerals exploration activities can take up to a maximum of seven years, with different projects at various stages of the exploration phase (Resilient Environmental Solutions (RES), 2019). The Proponent intends to adopt a systematic and standard prospecting and exploration approach for the 2 exploration categories of the commodities (Nuclear Fuel Minerals) potentially occurring on the EPL. The exploration methods are presented under the subsections below.

2.2 Exploration Methods for Nuclear Fuel Minerals

2.2.1 Prospecting Stage (Non-Invasive Technique)

This stage of the project is known as a Non-invasive technique (Desktop Study). During the prospecting and exploration phase, the vital components include reviewing existing reports and composite stratigraphic, lithological-geochemical maps of the targeted areas to identify prospective lithostratigraphic packages. In addition to the literature review, fieldwork (lithological (soil/rock) mapping and sampling) will be conducted to verify desktop work. These works do not require physical disturbance.

Should the ECC be issued, prospecting during the advanced exploration phase will require the Proponent to assess the EPL area through detailed geological mapping and geophysical surveys.

2.2.1.1 Geophysical surveys

This will entail data collection of the substrata (in most cases, the service of an aero-geophysical contractor will be sourced), by air or ground, through sensors such as radar, magnetic, and electromagnetic to detect any mineralization in the area, and is conducted to ascertain the mineralization.

Ground geophysical surveys shall be conducted, where necessary, using vehicle-mounted sensors or handheld by staff members, while in the case of air surveys, the sensors will be mounted to an aircraft, which then flies over the target area. These surveys (mapping and as supported by geophysics) are crucial in defining targets for test pitting, trenching, and drilling.

The exploration program will then commence with ground geophysical surveys. These surveys and associated activities are part of the exploration cycle in Figure 2-1.

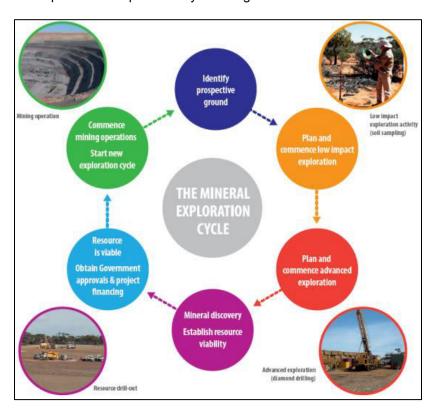


Figure 2-1: The Mineral Exploration Cycle (Excel Dynamic Solutions, 2021)

After a successful exploration activity, the EPL would be converted into a Mining License by submitting exploration results and an application to convert to the MIME. Upon approval of the application by MIME, feasibility study, and full EIA Study (with an approved ECC for mining activities), the site would be prepared for mine development, actual mining, and subsequent mine closure.

2.2.2 Planned Exploration Methods (Invasive Techniques)

This stage (Detailed Field Evaluation), following the Non-Invasive techniques, will be carried out by the simple collection of soil and rock samples from the target EPL areas to verify desktop/non-invasive information. These detailed techniques will include activities, as described under the subsection:

- Soil and rock sampling,
- · Trenching, and
- Exploration drilling (Reverse Circulation (RC) and diamond drilling).

2.2.2.1 Lithology geochemical surveys

Rock and soil samples shall be collected and taken for trace element analysis to be conducted by analytical chemistry laboratories to determine if enough Nuclear Fuel Minerals or other minerals of interest are present. Also, trenches or pits may be dug depending on the commodity (in a controlled environment, e.g., fencing off and labelling activity sites), adopting manual or an excavator to further investigate the mineral potential.

Soil sampling consists of small pits (±20cm X 20cm X 30cm) being dug where 1kg samples can be extracted and sieved to collect 50g of material. As necessary, and to ensure adequate risk mitigation, all major excavations will either be opened or closed immediately after obtaining the needed samples, or the sites will be secured until the trenches or pits are closed. At all times, the landowner/custodian and other relevant stakeholders will be engaged to obtain authorisation where necessary. A typical example of soil sampling in the field for exploration is shown in Figure 2-2 below.



Figure 2-2: Examples of soil sample collection and equipment (RES, 2019)

2.2.2.2 Detailed Exploration Drilling

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

A typical drilling site will consist of a drill rig and support vehicles, as well as a drill core and geological samples store. A drill equipment parking and maintenance yard may be set up (including a fuel and lubricants storage facility). A typical example of drilling activities on active EPLs in the Erongo and Omaheke Regions is shown in Figure 2-3 and Figure 2-4.



Figure 2-3: A-typical drill rig on an EPL (Resilient Environmental Solutions, 2019), B- drill rig on active EPL exploration site visited by the Author in Erongo Region (photo by Author, 2022)



Figure 2-4: A drill rig on an EPL in the Omaheke Region (Resilient Environmental Solutions, 2022)

2.3 Project Resources and Services Infrastructure

The following services and infrastructure, as provided below, will be required for the project activities.

2.3.1 Human resources

The prospecting stage will require, but not be limited to, one or two geologists, a GIS specialist, and a geophysicist to collect the data. During the detailed (invasive) exploration stage, the project crew will consist of about 8 people, comprising 2 to 3 skilled (geologist and geotechnician), 2 semi-skilled, and 4 or more casual workers (assistants). However, this number may vary depending on the actual workload and requirements on-site. The workforce requirement will entail the need for geologist(s), drilling personnel, sampling team, supervisor/exploration manager, casual workers to clear the sites and perform other required jobs onsite, cleaner(s), machine operator, truck & light vehicle drivers, etc.

2.3.2 Project Crew Accommodation

Accommodation: Exploration (mainly drilling) workers will be housed in Arandis and surrounding communities – hence, it is recommended to hire as many locals (from Spitzkoppe and nearby farms) as possible for the work they can do. This is to minimize the number of outsiders who may need accommodation. Out-of-area workers with specialized skills for exploration would be accommodated in the nearest local accommodation facilities in Arandis and Usakos through rentals.

2.3.3 Project Equipment, Material, Machinery, and Vehicles

The following equipment and machinery will be required for the exploration stage:

- A minimum of two (4X4) pickup trucks (vehicles), and a heavy truck,
- Air compressor,
- Drill rigs and drilling machines
- Two-way radios (for communication),
- Water supply tanks with dispersion pipelines, and a fuel bowser,
- Power generators (minimum two), and
- Biodegradable drilling fluids stored in manufacturer-approved containers.

Equipment and vehicles will be stored at a designated area near the accommodation site (campsite) or a storage site established within the site areas of the EPLs.

2.3.4 Water Supply

During exploration, onsite water will be required for cooling down and washing of equipment, exploration-related activities such as drilling, test quarrying, and domestic (drinking, cooking, and ablution). For exploration-related activities such as cooking, drinking, and personal use, about 300 litres of water will be required per week (1,200 litres per month). Exploration drilling, specifically diamond drilling, requires a lot of water, and it would require approximately 10,000 to 25,000 litres (10 to 25m³) per day, in instances where, for example, fractured formations are encountered per hole during drilling.

The required water will be used for actual detailed exploration activities, such as cooling down and washing drilling equipment, and domestic use (ablution, drinking, and cooking). The water will be supplied from reliable sources around the EPLs, such as purchasing from the Arandis or Usakos Town Council (through a water supply agreement with the Council).

2.3.5 Fuel supply (For Cooking)

The Proponent will provide a 10kg liquid gas cylinder to be used for food preparation by the site workers. Therefore, no project-related firewood will be collected from the Conservancy.

2.3.6 Fuel Supply (Machinery and Equipment)

Diesel will be used for machinery and equipment, and a fuel generator. A trailer-mounted and bunded 10,000-litre fuel tank will be on-site to ensure an uninterrupted fuel supply to the project activities.

2.3.7 Accessibility (roads)

The two EPLs can be accessed from the B2 road via local area access roads. EPL-9885 can be accessed from the Spitzkoppe side by two gravel roads, D3716 and D1925. If needed, further tracks that may be required to access certain areas for exploration will be created, upon approval and in consultation with the local authority/land custodian and Conservancy, as well as the landowner, before creating new tracks.

2.3.8 Waste management

The onsite waste types will be managed as follows:

- <u>Sewage</u>: Portable ablution facilities with septic tanks will be provided on site and emptied according to manufacturers' instructions.
- General and domestic waste: Sufficient waste bins (containers) will be available at both exploration
 sites and campsites for waste storage. The waste containers will be emptied into the main onsite
 container for disposal at the nearest approved landfill site, upon reaching a waste disposal
 agreement with the Usakos and or Arandis Town Councils.
- <u>Hazardous waste</u>: All vehicles, machinery, and fuel-consuming equipment will be provided with drip
 trays to capture potential fuel spills and waste oils. The waste fuel/oils will be carefully stored in a
 standardized container to be disposed of at the nearest approved hazardous waste management
 facility, such as Walvis Bay or Windhoek.

2.3.9 Health and Safety

The following measures will be implemented onsite to ensure safety and security:

Adequate and appropriate Personal Protective Equipment (PPE) will be provided to every project
personnel and visitor/inspector while on and working at the site and visiting the site, respectively.

- <u>First aid:</u> A minimum of two first aid kits will be readily available at exploration and camp sites to
 attend to potential minor injuries, while major injuries will need to be attended to further by
 transporting the injured to the nearest health centre for treatment. At least 2 personnel will be
 trained to administer first aid.
- <u>Potential Accidental Fire Outbreaks:</u> As a control measure for accidental fire outbreaks, basic firefighting equipment, i.e., a fire extinguisher, will be readily available in vehicles, at the working sites, and at campsite (accommodation units). The site personnel will be trained in and provided with firefighting skills.
- Open exploration trenches and boreholes: The trenches dug for sampling will be temporarily fenced off to prevent potential injuries to mainly wildlife in the area. Once sampling is completed, the trenches will be progressively backfilled and levelled, and fencing will be removed for storage or donation to the land custodians for the communities. Similarly, for exploration boreholes that are no longer required after rock samples, they will be backfilled and closed off.

Warning signage at hazardous site areas, such as open trenches, will be erected.

2.4 Decommissioning and Rehabilitation of Disturbed Sites

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

- Dismantling and removal of campsites and associated infrastructures from the project site and area,
- Carrying away all exploration equipment and vehicles, and
- Cleaning up of site working areas and transporting the recently generated waste to the nearby approved waste management facility (as per agreement with the facility operator/owner),

Further decommissioning and rehabilitation practice onsite will include:

- Backfilling of pits and trenches used for sampling,
- Closing and capping of exploration boreholes to ensure that they do not pose a risk to both people and animals in the area, and
- Levelling of stockpiled topsoil. This will be done to ensure that the disturbed land sites are left as close to their original state as possible.

2.5 Post-Exploration Activities

After a successful exploration activity, the EPLs would be converted into a Mining License by submitting exploration results and an application to the MIME to convert the EPLs (or one of them) into a Mining License. Upon pre-approval of the application by MIME, feasibility study, and full EIA Study (with an approved ECC for mining activities), the approved area would be prepared for mine development and actual mining and subsequent mine closure.

The next chapter presents different and relevant alternatives considered for the project activities.

3 PROJECT ALTERNATIVES

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

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

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

The alternatives considered for the proposed project are discussed below.

3.1 The "No-Go" Alternative

The "no action" alternative implies that the status quo remains, and nothing happens. Should the proposal of exploration activities on the EPL be discontinued, none of the potential impacts (positive and negative) identified would occur. If the proposed project is to be discontinued, the current land use for the proposed site will remain unchanged. This option was considered, and a comparative assessment of the environmental and socio-economic impacts of the "no action" alternative was undertaken to establish what benefits might be lost if the project is not implemented.

Considering the above losses, the "no-action/go" alternative was not considered a viable option for this project.

3.2 Exploration Location

The prospecting/exploration location is dependent on the geological setting (regional and local) and economic geology. Therefore, finding an alternative location for these planned exploration activities for the specific commodities in the area is not possible. This means that the mineralization of the target commodities is area-specific, which means exploration targets are primarily determined by the geology (host rocks) and the ore-forming mechanism. The location of the EPL also depends on the availability of license areas that the different applicants and Proponents applied for and are interested in (specific minerals).

Furthermore, the national mineral resources' potential locations are also mapped and categorized by the Ministry of Mines and Energy in exclusive prospecting licenses, mining licenses and claims, mineral deposit retention licenses, reconnaissance licenses, and exclusive reconnaissance licenses. Available information on EPL-9885&9985 and other licenses is available on the Namibia Mining Cadastral Map.

3.3 Exploration Methods

Both invasive and non-invasive exploration activities, as indicated under the project description chapter, are expected to take place. These were found to be appropriate and reliable for the type of commodities explored. Other alternative viable exploration methods are found to achieve the purpose more effectively and/or efficiently without aggravating any environmental measures put in place; they can be implemented.

3.4 Services Infrastructure

Alternatives were considered for different supporting infrastructures to ensure that the most feasible options were selected. The technological, economic, and environmental limitations were considered to select the most feasible option. The alternative considered in this regard is presented in Table 3-1 below.

Table 3-1: The presentation of service infrastructure alternatives considered for the project activities

Category of	Alternatives Considered	Justification for the selected option
Infrastructure		
Ablution facilities	Install a fixed facility with a septic tank	-To minimize rehabilitation costs, portable facilities were
	-Portable facilities with a septic tank	selected as the best option
Water supply	-Bring water from elsewhere	-The project water will be brought from elsewhere (Usakos
	-Abstract from site boreholes	or Arandis) to minimize the impact on the local resources
Fuel storage	-Trailer-mounted diesel tank	-During exploration, use a trailer-mounted diesel tank for
	-Fixed bundled fuel tank	fuel storage due to great mobility requirements.
Power supply	-Diesel generator set and, if considered,	-The diesel and or solar power are the most practical &
	solar power.	economically viable options for exploration (in case of no
	-Powerline (grid) supply	favourable results of exploration).
Offices,	-Erect disassemblable prefabricated	-Favoured due to: (a) Ease of installation, (b) Low
accommodation	units	installation costs, and (c) Ease of dismantling & moving.
	-Fixed structures	
Accommodation site	-Setting up campsites, a tented campsite	-Combining Usakos/Arandis accommodation (for area
	within the EPLs	specialized employees) and local employees commuting
	-Commuting from Arandis and Usakos	from home daily, where possible.
	(for workers with specialized skills)	

The following chapter presents the national and international legal requirements that are applicable and relevant to the project.

4 APPLICABLE LEGAL FRAMEWORK

The project's activities, or some of them, may be regulated and governed by certain legal policies. Therefore, it is necessary to review and consider this legislation and the legal requirements. These legal requirements are either on a local (institutional), national (Namibian), or international legislation, policies, guidelines, etc. This review serves to inform the project Proponent, Interested and Affected Parties, and the decision-makers at the DEAF of the requirements and expectations, as laid out in terms of these instruments, to be fulfilled to establish the proposed prospecting and exploration activities.

4.1 Environmental Management Act No. 7 of 2007

The Environmental Management Act No.7 of 2007 and its 2012 EIA Regulations aims to ensure that the potential impacts of the development on the environment are considered carefully and in good time; that all interested and affected parties have a chance to participate in the environmental assessments and that the findings of the environmental assessments are fully considered before any decisions are made about activities which might affect the environment.

The Act aims at promoting sustainable management of the environment and the use of natural resources. The Environmental Management Act (EMA) is broad; it regulates land use development through environmental clearance certification and/or Environmental Impact Assessments. The Act provides for the clearance certification for "mining and quarrying activities".

4.2 Minerals (Mining & Prospecting) Act No. 33 of 1992

The most applicable Sections to the project are as follows:

- Section 54 requires a written notice to be submitted to the Mining Commissioner if the holder of a mineral license intends to abandon the mineral license area.
- Section 68 stipulates that an application for a mineral license shall contain the particulars of the
 condition of, and any existing damage to, the environment in the area to which the application
 relates, and an estimate of the effect which the proposed prospecting operations may have on the
 environment and the proposed steps to be taken to prevent or minimize any such effect.
- Section 91 requires that rehabilitation measures be included in an application for a mineral license.

<u>Implication for the proposed project:</u> The Proponent should assess the impact on the receiving environment. The Proponent should include as part of their application for the EPLs, measures by which they will rehabilitate the areas where they intend to carry out exploration activities.

Other applicable legal frameworks and policies relevant to the proposed project are presented in Table 4-1.

Table 4-1: List of applicable legislation for the proposed prospecting and exploration activities on the EPLs

Legislation / Policy /	Relevant Provisions	Implications for the project activities
Guideline		
The Constitution of the Republic of Namibia, 1990, as amended	The Constitution of the Republic of Namibia (1990 as amended) addresses matters relating to environmental protection and sustainable development. Article 91(c) defines the functions of the Ombudsman to include: "the duty to investigate complaints concerning the overutilisation of living natural resources, the irrational exploitation of non-renewable resources, the degradation and destruction of ecosystems and failure to protect the beauty and character of Namibia" Article 95(I) commits the state to actively promoting and maintaining the welfare of the people by adopting policies aimed at: "Natural resources situated in the soil and on the subsoil, the internal waters, in the sea, in the continental shelf, and in the exclusive economic zone are property of the State."	By implementing the environmental management plan, the establishment will comply with the constitution in terms of environmental management and sustainability. Ecological sustainability will be the main priority for the proposed development.
Nature Conservation Amendment Act, No. 3 of 2017 The Parks and Wildlife Management Bill of 2008	National Parks are established and gazetted per the Nature Conservation Ordinance, 1975 (4 of 1975), as amended. The Ordinance provides a legal framework with regard to the permission to enter a state-protected area, as well as requirements for individuals damaging objects (geological, ethnological, archaeological, and historical) within a protected area. Though the Ordinance does not specifically refer to mining as an activity within a protected area (PA) or recreational area (RA), it does restrict access to PAs and prohibit certain acts therein, as well as the purposes for which permission to enter game parks and nature reserves may be granted. Aims to provide a regulatory framework for the protection, conservation, and rehabilitation of species and ecosystems, the sustainable use and sustainable management of indigenous biological resources, and the management of protected areas, to conserve biodiversity and to contribute to national development.	The Proponent will be required to enhance the conservation of biodiversity and the maintenance of the ecological integrity of protected areas and other State land. The EPL is within the #Gaingu Conservancy. Therefore, they should be engaged before and throughout the project implementation. The consent should be obtained from the Conservancy management, and land use agreements should be entered into before exploration activities start. Agreements and conditions set by the conservancy management should be compiled throughout the project cycle.

Legislation / Policy /	Relevant Provisions	Implications for the project activities
Guideline		
Traditional Authority Act (Act No. 25 of 2000):	The Act also stipulates that Traditional Authorities (TAs) should ensure that natural resources are used on a sustainable basis that conserves the ecosystem. This Act implies that TAs must be fully involved in the planning of land use and development for their area. It is the responsibility of the TAs' customary leadership, the Chiefs, to exercise control on behalf of the state and the residents in their designated area.	The EPLs considered under this project are within the predominantly communal land under the Oe-Gan Traditional Authority (TA). Therefore, they should be consulted for the land use consent, and engagement should continue throughout the Project.
Forestry Act (Act No. 12 of 2001	The Act provides for the management and use of forests and forest products. Section 22. (1) provides: "Unless otherwise authorised by this Act, or by a licence issued under subsection (3), no person shall on any land which is not part of a surveyed erven of a local authority area as defined in section 1 of the Local Authorities Act, 1992 (Act No. 23 of 1992) cut, destroy or remove - (a) vegetation which is on a dune or drifting sand or a gully unless the cutting, destruction or removal is done to stabilise the sand or gully; or (b) any living tree, bush or shrub growing within 100 m of a river, stream or watercourse."	The proponent will apply for the relevant permit under this Act if it becomes necessary to remove protected trees at the necessary site areas (spots) on the EPLs. There are protected vegetation species on EPL-9985, comprising rock corkwood (Commiphora saxicola) and quiver trees (Aloidendron dichotomum, formerly Aloe dichotoma). Therefore, these should be avoided at all costs. However, if it is deemed necessary to remove them in some areas, the necessary permit should be obtained from the Forestry Directorate of the MEFT.
Mine Health & Safety Regulations, 10 th Draft	Makes provision for the health and safety of persons employed or otherwise present in the mineral license area. These deal with, among other matters, clothing and devices; design, use, operation, supervision, and control of machinery; fencing and guards; and safety measures during repairs and maintenance.	The Proponent should comply with all these regulations with respect to their employees.
Petroleum Products and Energy Act (No. 13 of 1990) Regulations (2001)	Regulation 3(2)(b) states that "No person shall possess [sic] or store any fuel except under authority of a licence or a certificate, excluding a person who possesses or stores such fuel in a quantity of 600 litres or less in any container kept at a place outside a local authority area"	The Proponent should obtain the necessary authorisation from the MIME for the storage of fuel on-site.

Legislation / Policy /	Relevant Provisions	Implications for the project activities
Guideline		
The Regional Councils Act (No. 22 of 1992)	This Act sets out the conditions under which Regional Councils must be elected and administer each delineated region. From a land use and project planning point of view, their duties include, as described in section 28 "to undertake the planning of the development of the region for which it has been established with a view to physical, social and economic characteristics, urbanisation patterns, natural resources, economic development potential, infrastructure, land utilisation pattern and sensitivity of the natural environment.	The relevant Regional Councils are I&APs and must be consulted during the Environmental Assessment (EA) process. The project site falls under the Erongo Regional Council; therefore, they should be consulted.
Water Act 54 of 1956	The Water Resources Management Act 11 of 2013 is presently without regulations; therefore, the Water Act No 54 of 1956 is still in force:	The protection (both quality and quantity/abstraction) of water resources should be a priority.
	Prohibits the pollution of water and implements the principle that a person disposing of effluent or waste has a duty of care to prevent pollution (S3 (k)).	Relevant permits and or agreements to abstract and use water should be applied for and obtained.
	Provides for control and protection of groundwater (S66 (1), (d (ii)).	
	Liability of clean-up costs after closure/abandonment of an activity (S3 (I)). (I)).	
Water Resources Management Act (No 11 of 2013)	The Act provides for the management, protection, development, use, and conservation of water resources; provides for the regulation and monitoring of water services; and provides for incidental matters. The objects of this Act are to:	
	Ensure that the water resources of Namibia are managed, developed, used, conserved and protected in a manner consistent with, or conducive to, the fundamental principles set out in Section 66 - protection of aquifers, Subsection 1 (d) (iii) provide for preventing the contamination of the aquifer and water pollution control (Section 68).	
National Heritage Act No. 27 of 2004	To provide for the protection and conservation of places and objects of heritage significance and the registration of such places and objects; to establish a National Heritage Council; to establish a National Heritage Register; and to provide for incidental matters.	

Legislation / Policy /	Relevant Provisions	Implications for the project activities
Guideline		
The National Monuments	The Act enables the proclamation of national monuments	The Proponent should ensure
Act (No. 28 of 1969)	and protects archaeological sites.	compliance with these Acts' requirements. The necessary management measures and related permitting requirements must be taken. This is done by consulting with the National Heritage Council of Namibia. A Chance Finds Procedure provided to the Draft EMP should be implemented upon discovery of archaeological and heritage resources.
Soil Conservation Act (No	The Act makes provision for the prevention and control of	Duty of care must be applied to soil
76 of 1969)	soil erosion and the protection, improvement and conservation of soil, vegetation and water supply sources and resources, through directives declared by the Minister.	conservation and management measures must be included in the EMP.
Forestry Act (Act No. 12	The Act provides for the management and use of forests	The proponent will apply for the relevant
of 2001	and forest products. Section 22. (1) provides: "Unless otherwise authorised by this Act, or by a licence issued under subsection (3), no person shall on any land which is not part of a surveyed erven of a local authority area as defined in section 1 of the Local Authorities Act, 1992 (Act No. 23 of 1992) cut, destroy or remove - (a) vegetation which is on a sand dune or drifting sand or on a gully unless the cutting, destruction or removal is done for the purpose of stabilising the sand or gully; or (b) any living tree, bush or shrub growing within 100 m of a river, stream or watercourse."	permit under this Act if it becomes necessary.
Public Health Act (No. 36 of 1919)	Section 119 states that "no person shall cause a nuisance or shall suffer to exist on any land or premises owned or occupied by him or of which he is in charge any nuisance or other condition liable to be injurious or dangerous to health."	The Proponent and all its employees should ensure compliance with the provisions of these legal instruments.
Public and Environmental Health Act No. 1 of 2015	The Act serves to protect the public from nuisance and states that no person shall cause a nuisance or shall suffer to exist on any land or premises owned or occupied by him or of which he is in charge any nuisance or other condition liable to be injurious or dangerous to health.	

Legislation / Policy /	Relevant Provisions	Implications for the project activities
Guideline		
Health and Safety Regulations GN 156/1997 (GG 1617)	Details various requirements regarding health and safety of labourers.	
Atmospheric Pollution Prevention Ordinance (1976)	This ordinance provides for the prevention of air pollution and is affected by the Health Act 21 of 1988. Under this ordinance, the entire area of Namibia, apart from East Caprivi, is proclaimed as a controlled area for the purposes of section 4(1) (a) of the ordinance.	The proposed project and related activities should be undertaken in such a way that they do not pollute or compromise the surrounding air quality. Mitigation measures should be put in place and implemented.
Hazardous Substance Ordinance, No. 14 of 1974	The ordinance provides for the control of toxic substances. It covers manufacture, sale, use, disposal and dumping as well as import and export. Although the environmental aspects are not explicitly stated, the ordinance provides for the importing, storage, and handling.	The Proponent should handle and manage the storage and use of hazardous substances on site so that they do not harm or compromise the site environment
Road Traffic and Transport Act, No. 22 of 1999	The Act provides for the establishment of the Transportation Commission of Namibia; for the control of traffic on public roads, the licensing of drivers, the registration and licensing of vehicles, the control and regulation of road transport across Namibia's borders; and for matters incidental thereto.	Mitigation measures should be provided for; if the roads and traffic impact cannot be avoided, the relevant permits must be applied for.
Labour Act (No. 6 of 1992)	The Ministry of Labour, Industrial Relations and Employment Creation is aimed at ensuring harmonious labour relations through promoting social justice, occupational health and safety, and enhanced labour market services for the benefit of all Namibians. This ministry ensures the effective implementation of the Labour Act No. 6 of 1992.	The Proponent should ensure that the prospecting and exploration activities do not compromise the safety and welfare of workers.

In addition to the project description, alternatives, and legal framework, it is also important to note that the proposed project activities will be undertaken in a specific environment, in terms of biophysical and social conditions. Therefore, understanding these existing environmental features before the project activities is crucial for the assessment of the potential impacts stemming from the project activities on the features.

5 BIOPHYSICAL AND SOCIAL BASELINE

The proposed exploration activities will be undertaken in specific environmental and social conditions. Therefore, understanding the pre-project conditions of the environment will aid in describing the status quo versus future projections of environmental conditions once the project is implemented. The baseline information also aids in identifying the sensitive environmental features and how the best suitable management and mitigation measures can be recommended for implementation. The summary of selected biophysical and social baseline information about the project area is given below.

The baseline information presented below is sourced from site visits, online sources ranging from old reports, books, and publications, as well as other relevant research information in the broader area. A site visit was done on the 15th of August 2025. The project baseline that is deemed necessary for the project activities is as follows.

5.1 Biological Environment

According to Erongo Regional Council (2015), the hyper-arid Namibian coastal ecosystem is home to a significant and unique array of biological and ecological diversity, including uniquely adapted plants and animals, rich estuarine fauna, and a high diversity of migratory shore and seabirds. Namibia's coastal zones are considered a refuge for several endangered species.

5.1.1 Fauna

In terms of fauna, the area is home to wildlife such as kudu, gemsbok, springbok, jackal, lion, hyena, cheetah, elephant, and leopard (NACSO, 2025). The faunal species expected to occur on-site are expected to occur in similar habitats within the wider project area. However, due to the movement of people in the area and some nearby farms, wildlife is rare and hardly seen on the site.

The project area is home to some small livestock (goats and sheep), which are raised on a subsistence scale. Some goats that were seen in the area are shown in Figure 5-1.

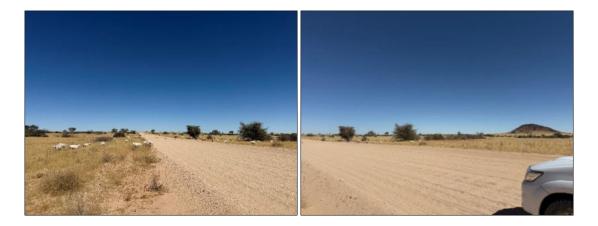


Figure 5-1: Some local goats grazing within EPL-9885 near Spitzkoppe

5.1.2 Flora

The vegetation structure of the EPL area is characterized by the sparse shrubland and Namib grassland, as shown on the map in Figure 5-2.

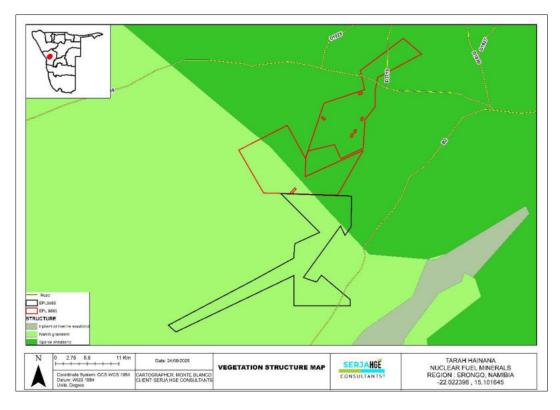


Figure 5-2: Dominant vegetation map within and around the EPLs

The EPL area is largely covered by slightly tall, thick grass, and scarcely distributed young trees and shrubs of red-bark camelthorn (*Vachellia reficiens*), rock corkwood (*Commiphora saxicola*), and the purple-pod cluster-leaf (*Terminalia prunioides*) within the EPL-9885. Vegetation occurring on EPL-9985 includes some camelthorn shrubs, protected rock corkwood (*Commiphora saxicola*), dollar bush (*Zygophyllum stapffii*), and quiver trees (*Aloidendron dichotomum*, formerly known as the *Aloe dichotoma*), as well as the Damara milk-bush (*Euphorbia damarana*). These observed vegetation, young trees, and shrubs are shown in Figure 5-3.



Figure 5-3: Observed shrubs of red within the EPL-9885 (A – top 3 photos) and EPL-9885 (B – bottom 3 photos comprising quiver trees, Damara milk-bush, and rock corkwood shrubs)

5.2 Physical Environment

5.2.1 Climate

The area overlain by the EPLs is characterized as arid, with less than 200mm average annual rainfall (NACSO, 2025). According to Mendelsohn et al. (2002), the project area and surrounding areas receive an average annual rainfall between 150 and 250mm. The annual temperatures of the project area range between 8 and 22°C, with minimum temperatures ranging from 16 to 20°C and maximum temperatures ranging from 32 to 36°C.

5.2.2 Landscape and Topography

EPL-9885 and a larger part of EPL-9985 fall within the Central-Western Plains Landscape, and a smaller area of EPL-9985 falls within the coastal plain landscape (Figure 5-4). The Central-Western Plains landscape stretches back from the coast and extends inland for about 450km in places. The plains were largely formed by erosion cutting back into higher ground and carving out the catchment areas of several major rivers such as the Khan, Swakop, Omaruru, and Ugab rivers (Mendelsohn et al., 2002).

A coastal plain landscape is a flat, low-lying piece of land next to the ocean. Coastal plains are separated from the rest of the interior by nearby landforms, such as mountains (National Geographic, 2023).

EPL-9885 is mainly situated in a slightly hilly and mountainous area with elevations ranging between 951 and 1,216 meters above sea level, with a small southern position on a flat terrain (with elevations between 547 and 951m above sea level) - Figure 5-4. EPL-9985 is located in a relatively flat area with elevations ranging between 0 and 951m above sea level. The area is further characterized by rolling, flat landscape in which the Spitzkoppe Mountain stands out (NACSO, 2025).

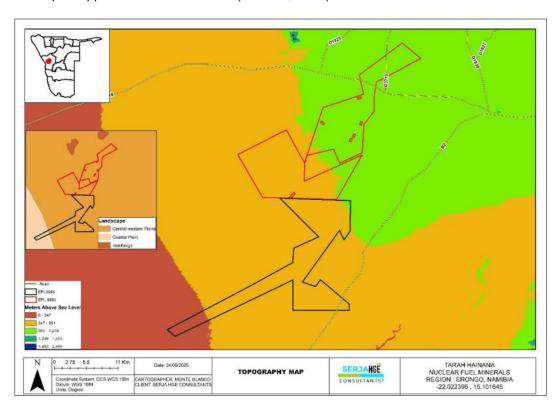


Figure 5-4: The topography and landscape of the area within and around the EPLs.

5.2.3 Geology and Soils

The EPL falls within the Damara Granites and Swakop Group geological groups (Mendelsohn et al., 2002). The typical rock outcrops and units occurring within the EPL are shown in Figure 5-5: local geological and immediate surroundings map.

The units comprise marble, schist, quartzite, calci-silicate, graphitic schist, conglomerate, granite, alluvium, sand, gravel, calcrete, and some smaller areas underlain by post-tectonic granite, alaskite, pegmatite, and minor quartz diorite.

The geological settings of the area (the rock units and their potential to host ores of the sought commodities) triggered the need to prospect and explore within the EPLs.

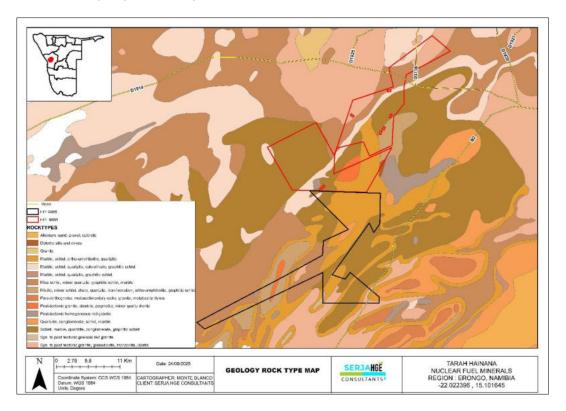


Figure 5-5: The geology of the EPLs and the surrounding area

The outcrops observed on the EPLs comprise diorite, granite, schists, quartzite (Figure 5-6), and at the borders of the two EPLs are calcrete and gravel.





Figure 5-6: Outcrops of diorite, granite, schist, and quartzite within the two EPLs

During the site visit, the soils are covered by short grass (due to recent good rainfalls in 2025). In some areas, the soil surface has protruding rock outcrops such as dolerite. The soils are further characterized by calcrete and gravel – Figure 5-7.



Figure 5-7: The soil covered by grass, calcrete, and protruding rock (dolerite) outcrops

The two EPLs are mainly overlain by petric calcisols with EPL-9985 partly falling in the petric gypsisols, as shown on the dominant soil map in Figure 5-8. Mendelsohn *et al* (2002) describe petric soils as those with a solid layer at a shallow depth that remains hard even when wet.

According to the Atlas of Namibia Team (2022), calcisols are commonly found in arid and semi-arid environments that have distinct dry seasons. They form in alluvial, colluvial, and aeolian deposits that are rich in calcium and magnesium. Significant amounts of calcium carbonate (lime) form below the surface where the soil is alternately dampened by rain and dried by evaporation, which concentrates the calcium carbonate into soft masses or layers of hard calcrete.

Gypsisols occur where there is a source of sulphate and calcium to form gypsum – a soft mineral consisting of calcium sulphate – and where evaporation is much higher than precipitation. This is the case downwind of the largest upwelling cells off the Namibian coast, where the rising seawater brings organic sulphates to the surface, and south-westerly winds blow them onshore. Gypsisols form where these sulphates are deposited on the calcium-rich soils of the central and northern Namib (Atlas of Namibia Team, 2022).

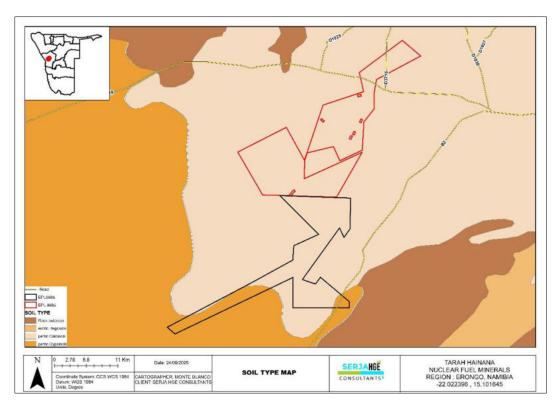
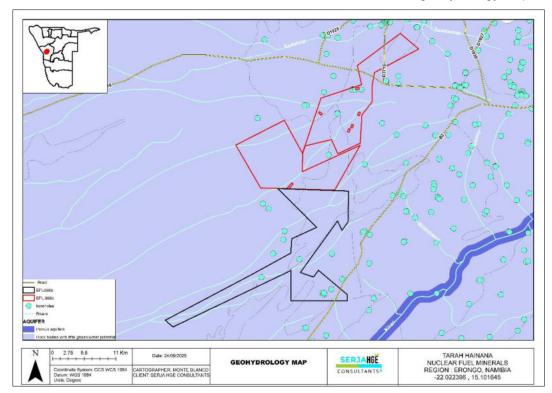


Figure 5-8: The dominant soil types found within the EPL

5.2.4 Water Resources: Groundwater (Hydrogeology) and Surface Water (Hydrology)

With regards to groundwater (hydrogeology), the EPL is mainly covered by the rock bodies with little groundwater potential, as shown on the map in Figure 5-9. Porous aquifers can only be found along major ephemeral rivers such as the Khan River to the southeastern side of the EPLs. The low/little groundwater potential in the EPL area is attributed to the low rainfall (influenced by the arid climate), the type of rock units underlying the EPL, and their non-fractured/faulted nature that limits the storage, transmission, and flow of groundwater. Therefore, the local rocks are not good aquifers (groundwater resources).



There is a record of boreholes within and around the EPLs, as shown on the geohydrology map.

Figure 5-9: The surface and groundwater map of the two EPLs

5.3 Social and Economic Environment

5.3.1 Demography

Based on the 2023 Population and Housing Census, the Erongo Region has a population of 240,206, with a population density of 3.8 people per square kilometer (persons/km²) (Namibia Statistics Agency, 2024a). The EPL-9885 falls within the Daures Constituency (Figure 5-10), which had a population of 14,601 and a population density of 0.8 persons/km² in 2023 (Namibia Statistics Agency, 2024b). Furthermore, the Daures Constituency has a household population of 12,538, 4,820 households, and an average household size of 2.6 people.

EPL-9985 falls within three different constituencies (partly in Daures, Karibib, and Arandis) as shown on the map in Figure 5-10. According to the Namibia Statistics Agency (2025b), the Arandis and Karibib Constituencies have populations of 13,542 and 19,705, respectively, with population densities of 1.0 and 1.4 persons/km², respectively.

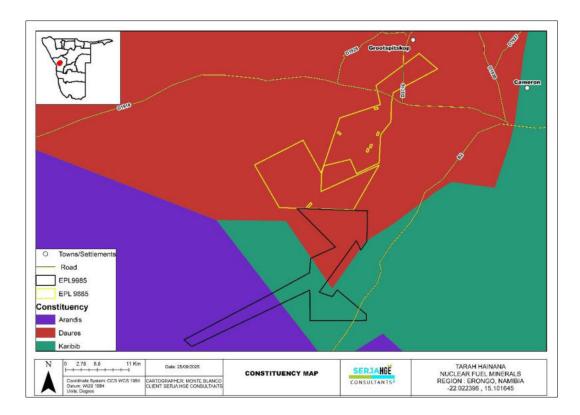


Figure 5-10: The surface and groundwater map of the two EPLs

5.3.2 Economic Activities

According to the Erongo Regional Council (2015), the economy of the Erongo Region mainly depends on mining, fishing, agriculture, and tourism. The fishing industry is the third largest economic sector, contributing about 6.6% to the Gross Domestic Product (GDP). The Region's whole eastern part and certain western parts are characterized by livestock farming on commercial farms in the districts of Karibib, Usakos, and Omaruru, and in the communal areas (Erongo Regional Council, 2015).

According to the Namibia Statistics Agency (2024), the main sources of income in households in the Erongo Region come from farming (0.7%), wages and salaries (68.7%), business, non-farming (7.5%), and old age pension (7.7%).

5.3.2.1 Agriculture

According to 2000 statistics, the Erongo Region was home to more than 110,000 goats, nearly 36,000 head of cattle, and approximately 50,000 sheep. Cattle from commercial and communal farmers can be marketed to the national abattoir and processing facility, Meatco (Erongo Regional Council, 2021).

The economic activities practiced in the EPL areas are farming (livestock and game) and tourism. The farming involves livestock, and tourism is centered on eco-tourism, game drives, and trophy hunting on commercial farms inland.

5.3.2.2 Exploration and Mining

The mining activities are undertaken near mining towns of Arandis and settlements such as Uis, Omatjete, where commonalities such as nuclear fuels (Uranium), Dimension Stone (marble and granite), Base & Rare Metals (Copper), Precious Metals (Gold), and Industrial Minerals, etc. are mined. There are other active EPLs around EPL-9885 and EPL-9985, whereby exploration works may or may not be undertaken currently. Please refer to the map in Figure 5-11, for neighboring EPLs and mining claims within the #Gaingu Conservancy and the EPLs.

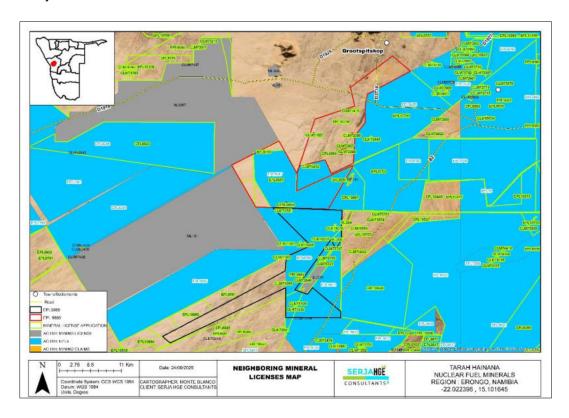


Figure 5-11: The mineral licenses around EPL-9885 and EPL-9985

5.3.2.3 Tourism

With regards to tourism, the Erongo Region offers some of the most spectacular and popular tourist destinations as well as a variety of eco-, wildlife, cultural, and adventure tourism opportunities. The project area is mainly aimed at tourism purposes.

The economic activities in the #Gaingu Conservancy include a Spitzkoppe Community Camp (community rest camp), trophy hunting, and a semi-precious stone market (NACSO, 2025).

5.3.3 Infrastructure and Services

The Erongo Region has good coverage of services and infrastructure. This includes a good road network from the central areas of the country and many access roads, tarred and untarred. The power is supplied either through ErongoRed in the coastal and central western areas of the Region.

There is also a good water reticulation system in both towns/villages/settlements and rural (farm) areas. The water is mainly supplied through water supply schemes operated by NamWater, either through boreholes (direct borehole or treated water), such as the Omaruru Delta Aquifer Scheme for the Towns, or private boreholes on farms. From a local perspective, the farms in the same area as the EPLs are communal (resettlement) farms with small-livestock farming and some small gardening.

The summary of the current services infrastructure in and around Spitzkoppe/Arandis and the EPLs includes:

- <u>Water supply:</u> Water is supplied from moderate and low-yielding solar-powered boreholes on farms and the project area, and possibly nearby water users are supplied from the NamWater Scheme.
- <u>Power supply:</u> The broader areas, such as towns (Uskaos and Arandis) and settlements (Spitzkoppe), are supplied by ErongoRed, the regional electricity provider. Some areas (including some farms) depend on solar energy and generators for power supply.
- Road network: The project area is connected to the inland areas by the B2. From Spitzkoppe, EPL-9885 can be accessed via the D1918 from Usakos and then further by D3716 and D1925.

5.3.4 Land Uses: Conservancies

The two EPLs lie within the #Gaingu Conservancy, which was established in March 2004. The Conservancy covers an area of 7,731km2 and has a population of 3,050. Geographical features include the Spitzkoppe National Monument Area and Rössing Mountain. The conservancy is close to and en route to the two coastal towns and tourist destinations of Walvis Bay and Swakopmund (NACSO, 2025). The major wildlife occurring in the Conservancy are kudu, gemsbok, springbok, jackal, lion, hyena, cheetah, elephant, and leopard.

5.4 Archaeology and Heritage Aspect

An Archaeological & Heritage Impact Assessment (AHIA) was carried out for the EPL by a qualified and experienced TARO Archaeology Consultant, Mr. Roland Mushi, in August 2025. The baseline information and assessment are presented herein, while mitigation measures are presented in the EMP.

5.4.1 On-site findings: Sensitivity of the Receiving Environs

Four sites of cultural and archaeological sensitivity were identified by using GIS spatial analysis; these sites are outside the EPL boundaries. The sites are situated in different directions from the EPLs' points of view; one of the sites is about 6km northwest of EPL-9885, 13km northeast of EPL-9885, 10km south of EPL-9985, and 5km southwest of EPL-9985 (Figure 10). The location of these significant sites. With their location being so far from the two EPLs, no cultural or archaeological impact is envisaged on the identified sites shown in Figure 5-12.

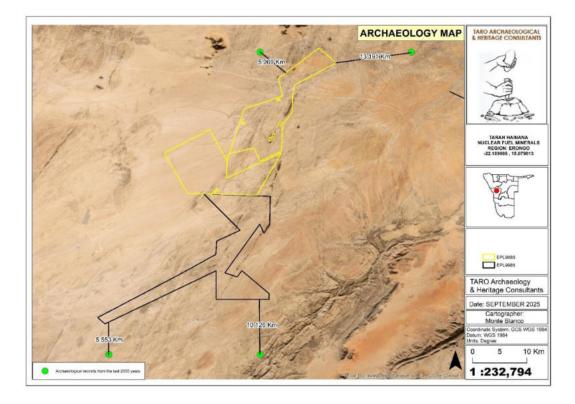


Figure 5-12: The Landscape Archaeological Map (Mushi, 2025)

5.4.2 Identification of the Archaeological and Heritage Sensitivity

Commonwealth war graves and other old graves/stone cairns were recorded within the landscape in which the EPL-9985 is located can be considered to be of sensitivity (Figure 5-13). A buffer zone of 1km radius is highly recommended and should be implemented during the exploration phase. Also, due to the nature of the landscape, as far as cultural landscape is considered, it is recommended to implement cautious measures such as the Chance Find Procedure during the prospecting and exploration phases for EPL-9985.

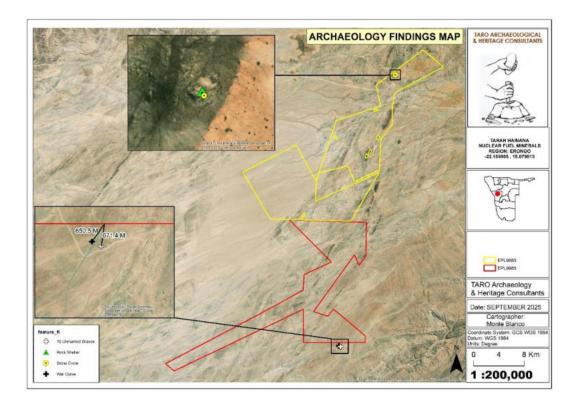


Figure 5-13: The Archaeological findings map (Mushi, 2025)

5.4.2.1 Sensitivity Analysis Summary Statement

The field survey conducted has revealed that the majority of the area is actually of moderate to low sensitivity, with only small areas being of high sensitivity where cultural heritage sites have been recorded. As seen in the sensitivity map, the recorded sites are the Commonwealth war graves and 10 unmarked graves (stone cairns), all are located at Trekkopje, and are close to the southern boundary of the license, each site located at 600m from EPL-9985. These graves are to be protected by recommending a 1km radius buffer zone as the area is sensitive with much history from and before WW1 (see Figure 5-13).

Summarily, it is evident that only the majority areas within the EPL are of moderate to low/low sensitivity, and that the remainder of the study area, slightly outside the EPL boundaries, is of high sensitivity. However, this does not mean that no significant archaeological or heritage resources will be present within the license, hence a chance find is highly recommended.

The public consultation and engagement process and the means employed for the EPL ESA Study are presented in Chapter 6.

6 PUBLIC CONSULTATION AND PARTICIPATION PROCESS

Public consultation and participation form an important component of an EIA process. It provides potential Interested and Affected Parties (I&APs) and stakeholders with an opportunity to comment on and raise any issues relevant to the project for consideration as part of the assessment process. This greatly assists the EAP (Environmental Consultant) in thoroughly identifying and recording potential impacts and to what extent further investigations are necessary. Public consultation can also aid in the process of identifying possible mitigation measures. The consultation for this project has been done under the EMA and its EIA Regulations, and as per the following subsections.

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

Relevant and applicable national, regional, and local authorities, and other interested members of the public were identified. Pre-identified I&APs were contacted directly, while other parties who contacted the Consultant after project advertisement notices in the newspapers were registered as I&APs upon their request.

6.2 Communication with I&APs and Means of Consultation Employed

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

- A Background Information Document (BID) containing brief information about the proposed project
 was compiled and hand-delivered to the Ministry of Environment, Forestry and Tourism (MEFT),
 accompanying the ECC application, and uploaded on the MEFT (ECC) Portal for project
 registration and shared with registered Interested and Affected parties (I&APs).
- Project Environmental Assessment notices were published in the New Era and Windhoek Observer newspapers dated 22 and 28 January 2025 (Appendix C). The consultation period ran from the 22nd of January 2025 to the 21st of February 2025. To allow time for comments after the consultation meetings in August 2025, the comment period was extended to 29 August 2025 (as indicated on the BID and EIA poster placed in Spitzkoppe and Usakos).
- The consultation meetings were held with key stakeholders of the area (Oe-Gan Traditional Authority (OGTA)), with the Chief of the area (Chief Immanuel Gaseb) in Windhoek on the 2nd of April 2025 (Figure 6-1). A combined meeting between the #Gaingu Conservancy and the Oe-Gan Traditional Authority senior councilors was held on the 15th of August 2025 in Spitzkoppe Settlement (Figure 6-2). The meeting minutes are attached hereto as Appendix D. The consent letters issued by the two key stakeholders (Oe-Gan TA and #Gaingu Conservancy) are appended hereto as Appendix E.



Figure 6-1: The EIA Consultation meeting with the Oe-Gan Chief in Windhoek on the 2nd of April 2025



Figure 6-2: The EIA Consultation meeting in progress at the Spitzkoppe Community Centre on the 15th of August 2025

 An EIA poster was placed at the frequented main market in Usakos (OK Supermarket) public notice board and at Mini Shop in Spitzkoppe –Figure 6-3. The copy of the poster is attached to the Report as Appendix F.





Figure 6-3: The EIA poster in Usakos and Spitzkoppe

- Some key potential positive and negative impacts were identified by the Environmental Consultant.

 A few issues and comments were raised by the stakeholders in the meeting, as follows:
 - 1. The issue of mineral explorers (proponents) leaving unrehabilitated holes that are not closed or backfilled after exploration activities. This is a safety concern.
 - 2. The need for accountability to make sure that the holes and trenches are backfilled. It is advised to have representatives from both the Traditional Authority and Conservancy present during rehabilitation. This is aimed at conducting inspections and reporting back for sign off (that the stakeholders and community are satisfied with the rehabilitation efforts made).
 - 3. The issue of compensation for affected communities that farm in the area and would need to be relocated or move away, should the EPLs advance to the mining stage. It was explained that for the exploration stage (for which the EIA study and ECC application are carried out and made, respectively), there will be no community relocation since exploration activities would be done at selected site areas. The mining-related impacts, such as relocation or resettlement of affected communities, would be discussed if and when the EPLs or one of the EPLs displays good results to advance to the mining stage. Therefore, any issues related to the mining stage, including potential relocation of communities, would be discussed at that time (in the mining EIA study) and not in the exploration stage.
 - 4. The impact of nuclear fuel minerals (uranium) on groundwater during exploration, which may affect water quality, which is needed for ecosystems, and the fact that the EPLs are within a conservancy.

The comments provided do not halt or object to the proposed project activities, but were meant to contribute to the improvement of the EMP and ensure that the biological, physical, and social environments are protected during the implementation and after completion of the project activities.

The next chapter is the presentation of potential impacts identified, the assessment methodology, impact description, and their assessment.

7 IMPACTS IDENTIFICATION, ASSESSMENT, AND MEASURES

7.1 Identification of Potential Impacts

The proposed project and its associated activities are usually associated with different potential positive and negative impacts. For an environmental assessment, the focus is placed mainly on the negative impacts that are likely to affect the host environment and social features. The assessment is done to ensure that these impacts are sufficiently addressed, and adequate mitigation measures are recommended thereto for implementation so that the impact's significance is brought under control, while maximizing the positive impacts. The potential positive and negative impacts that have been identified from the prospecting activities are listed as follows:

Positive impacts:

- Local socio-economic development through temporary employment creation.
- Payment of land use fees to the Conservancy and Traditional Authority to assist in uplifting the communities within and near the EPLs
- Procurement of local goods and services for exploration by small and medium businesses to promote local entrepreneurship, empowerment, and local economic development.
- Assisting the anti-poaching team in the Conservancy with basic needs and other possible aids (donations) through the Conservancy (as per signed Memoranda of Agreements).

Negative:

- Physical land/soil disturbance.
- Impact on local biodiversity (fauna and flora); potential illegal harvesting of protected vegetation and wildlife hunting (poaching), and habitat disturbance in the area (Conservancy).
- Potential conflicts between the Proponent and small-scale miners who applied for or have Mining Claims (MCs) within the EPL boundaries.
- Potential impact on water resources and soils, particularly due to pollution.
- Visual impact from unrehabilitated explored areas on the EPLs may pose as an eyesore to travellers (including tourists) in the area.
- Accidental fire outbreaks related to the project activities.
- Air quality issue: potential dust generated from the project activities, such as drilling, possibly trenching, and movement of heavy trucks on unpaved access roads.
- Potential occupational health and safety risks (trenches and drilled holes risk to wildlife).

- Vehicular traffic safety and impact on the services infrastructure, such as local roads.
- Vibrations and noise associated with drilling activities could impact wildlife.
- Environmental pollution (solid waste and wastewater).
- Archaeological and heritage resources impact (during trenching and drilling).

7.2 Impact Assessment Methodology

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

The identified impacts were assessed in terms of scale/extent (spatial scale), duration (temporal scale), magnitude (severity), and probability (likelihood of occurring), as presented in Table 7-1.

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

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

The recommended mitigation measures prescribed for each of the potential impacts contribute towards the attainment of environmentally sustainable operational conditions of the project for various features of the biophysical and social environment. The following criteria (in Table 7-1) were applied in this impact assessment:

Table 7-1: Criteria used for impact assessment (extent, duration, intensity, and probability)

	The Criteria used to assess the potential negative impacts.													
Extent or (spatial scale) - extent is an indication of the physical and spatial scale of the impact.														
Low (1) Low/Medium (2) Medium (3) Medium/High (4) High (5)														
Impact is localised within	Impact is beyond the site	Impacts felt within	Impact widespread far	Impact extends beyond										
the site boundary: Site	boundary: Local	adjacent biophysical and	beyond the site	National or international										
only		social environments:	boundary: Regional	boundaries										
		Regional												

	The Criteria used to assess the potential negative impacts.											
Duration- Duration refe	ers to the timeframe over w	hich the impact is expected project	d to occur, measured in ter	ms of the lifetime of the								
Low (1)	Low/Medium (2)	Medium (3)	Medium/High (4)	High (5)								
Immediate mitigating measures, immediate progress Intensity, Magnitude		years) to the degree or magnitud	Impact is long-term e to which the impact alters	Long term, beyond closure, permanent, irreplaceable, or irretrievable commitment of resources as the functioning of an								
element of the environment. This is a qualitative type of criterion.												
H-(10)	M/H-(8)	M-(6)	M/L-(4)	L-(2)								
Very high deterioration, high quantity of deaths, injury or illness / total loss of habitat, total alteration of ecological processes, extinction of rare species Probability of occurrence.	deterioration, death, illness or injury, loss of habitat/diversity or resource, severe alteration, or disturbance of important processes	habitat/biodiversity or resource, moderate alteration	Low deterioration, slight noticeable alteration in habitat and biodiversity. Little loss in species numbers	nuisance or irritation, minor change in species/habitat/diversity or resource, no or very little quality deterioration.								
, , , , , , , , , , , , , , , , , , , ,	•	projects and/or based on	· ·									
Low (1)	Medium/Low (2)	Medium (3)	Medium/High (4)	High (5)								
Improbable; low likelihood; seldom. No known risk or vulnerability to natural or induced hazards.	Likely to occur from time to time. Low risk or vulnerability to natural or induced hazards	Possible, distinct possibility, frequent. Low to medium risk or vulnerability to natural or induced hazards.	implemented. Medium risk of vulnerability to	Definite (regardless of preventative measures), highly likely, continuous. High risk or vulnerability to natural or induced hazards.								

7.3 Impact Significance

Impact significance is determined through a synthesis of the above impact characteristics. The significance of the impact "without mitigation" is the main determinant of the nature and degree of mitigation required. As stated in the introduction to this chapter, for this assessment, the significance of the impact without prescribed mitigation actions was measured.

Once the above factors (Table 7-1) have been ranked for each potential impact, the impact significance of each is assessed using the following formula:

SP = (magnitude + duration + scale) x probability

The maximum value per potential impact is 100 significance points (SP). Potential impacts were rated as high, moderate, or low significance, based on the following significance rating scale (Table 7-2).

Table 7-2: Impact significance rating scale

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

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

The assessment of the project phases is done for both pre-mitigation (before implementing any mitigation) and post-mitigation (after mitigations are implemented). The objective of the mitigation measures is to firstly avoid the risk, and if the risk cannot be avoided, mitigation measures to minimize the impact are recommended. Once the mitigation measures have been applied, the identified risk will be of low significance.

7.4 Description and Assessment of Potential Impacts

The potential impacts of the proposed project activities are described and assessed in Table 7-3. The recommended management and mitigation measures to improve (for positive impacts) and reduce the significance of negative impacts are provided in the Draft EMP (Appendix A).

Table 7-3: The Description and Assessment of the impacts of exploration activities on the biophysical and social environment

Impact	Impact Description					Impact As	sessmen	t			
•	·		F	re-mitigatio	n Rating			Р	ost-mitigation		
		Extent	Duration	Intensity	Probability	Significance	Extent	Duration	Intensity	Probability	Significance
Employment creation	Although temporary, the project activities will create employment for some locals from sampling to drilling. This will include casual labourers, technical assistants, cooks, etc.	L/M-2	L/M-2	L / M - 4	sitive Impacts	L-8	M/H- 4	H - 5	M - 6	H-5	H - 75
Land use fees for socio- economic development	Payment of land use fees to the Conservancy and Traditional Authority will assist in uplifting the communities in and near Spitzkoppe, Usakos, and Arandis.	L / M- 2	L/M-2	L/M-4	L-1	L - 8	M/H- 4	H - 5	M - 6	H - 5	H - 75
Empowerme nt of local businesses	Procurement of local goods and services for exploration by small and medium businesses will promote local entrepreneurship, empowerment, and local economic development (income generation).	L/M-2	L/M-2	L/M-4	L/M-2	L - 16	M - 3	M / H - 4	L/M-4	M/H-4	M - 44
				Negative	e (Adverse) Im	pacts			•	•	
Physical disturbance to the site soils	The excavations and land clearing to enable the siting of project structures and equipment will potentially result in soil disturbance through target site establishment, access road creation, and unnecessary off-	M - 3	M/H-4	L / M - 4	M / H - 4	M – 44	L/M- 2	L/M-2	L / M - 4	L/M-2	L - 16

Impact	Impact Description	Impact Assessment									
				re-mitigatio	n Rating				ost-mitigatio		
	road driving. These would leave	Extent	Duration	Intensity	Probability	Significance	Extent	Duration	Intensity	Probability	Significance
	_										
	the site soils exposed to erosion										
	(areas with no to little vegetation										
	cover on the soils in place). This										
	is a concern because desert										
	soils are sensitive to										
	disturbance, and the prints may										
	take a hundred years to fade.										
	The movement of heavy vehicles										
	and equipment may lead to										
	compaction of the soils during										
	exploration. This will, however,										
	be a short-term and localized										
	impact.										
	- T. FD. (M: -3	M: -3	M: -6	M / H: 4	M: -48	L / M: -	L / M: -2	L / M: -4	L / M: 2	L: -16
Impact on the	Fauna: The EPLs fall within a	IVI: -3	IVI: -3	IVI: -0	M / H: 4	IVI: -48	2 L / IVI: -	L / IVI: -2	L / IVI: -4	L/IVI: 2	L: -10
sensitive	conservation area. Therefore, if										
Biodiversity:	activities such as trenching and										
Wild Fauna	drilling are not carefully										
and Flora	conducted, this would result in										
	land degradation. The										
	degradation would lead to										
	habitat loss for a diversity of flora										
	and fauna on-site. However,										
	exploration activities will be										
	limited to specific target areas										
	only within the EPLs.										
	The presence and movement of										
	the exploration workforce and										
	the operation of project										
į	and operation of project										

Impact	Impact Description	Impact Assessment									
				re-mitigatio					ost-mitigation		
	equipment and heavy vehicles	Extent	Duration	Intensity	Probability	Significance	Extent	Duration	Intensity	Probability	Significance
	would disturb wildlife at the										
	explored sites of the EPLs.										
	There is also a potential for										
	illegal hunting (poaching) of local										
	wildlife by project-related										
	workers. This could lead to a loss										
	or reduction of specific faunal										
	species, which also impacts										
	tourism in the community.										
	Flora: The already scarce flora										
	(vegetation) in the area would be										
	impacted through land clearing										
	to create exploration access										
	roads, setting up project										
	equipment and infrastructures,										
	and detailed exploration										
	activities. The clearing of										
	vegetation, where deemed										
	necessary, will be limited to the										
	specific route and minimal;										
	therefore, the impact will be										
	localized, site-specific, and										
	therefore manageable.										
Conflict	The fact that there are suicking	M - 3	M / H - 4	L/M-4	M / H - 4	M – 44	L - 1	L - 1	L - 2	L/M-2	L - 8
	The fact that there are existing	IVI - 3	IVI / H - 4	∟ / IVI - 4	IVI / H - 4	IVI — 44	L-1	L - I	L-Z	L / IVI - Z	L - 8
between the	applications for mining claims										
Proponent	rights by some locals/small-										
and Mining	scale miners within the										
Claims	Proponent's EPLs may lead to										

Impact	Impact Description	Impact Assessment									
				re-mitigatio					ost-mitigatio		
owners	conflicts between the small-	Extent	Duration	Intensity	Probability	Significance	Extent	Duration	Intensity	Probability	Significance
(small-scale	scale miners and the Proponent.										
miners) over	Potential conflicts between the										
commodities	Proponent and small-scale										
exploration	miners who applied for or have										
and mining	Mining Claims (MCs) inside the										
(for MCs) in	EPLs, at times, whereby the two										
the area	applicants applied for the same										
	commodity/ies. However, the										
	Proponent's interest in both										
	EPLs is in nuclear fuel minerals,										
	whereas the mining claims focus										
	on the small-scale mining of										
	semi-precious stones.										
	Therefore, the conflict is minimal										
	to none. Furthermore, the EPL										
	activities are focused on										
	prospecting and exploration only										
	and not mining. Therefore, the										
	Proponent will focus on that										
	(exploration) and within their										
	boundaries' rights, but excluding										
	the Mining Claims. The MC										
	owners, if approved by MIME,										
	would have the right to mine										
	within their MC boundaries only										
	and not outside. Therefore, this										
	is a matter of educating the										
	small-scale miners (MC owners)										
	Sman scale miners (MC Swilers)	1 '									

Impact	Impact Description	Impact Assessment									
				re-mitigatio	n Rating				ost-mitigation		
	about the six similar to union in an	Extent	Duration	Intensity	Probability	Significance	Extent	Duration	Intensity	Probability	Significance
	about their rights to mine in an										
	area, even if it is inside an EPL.										
	Some (new) EPL owners may										
	not be aware of this, but they										
	equally need to be educated										
	about this and respect the rights										
	of MC owners. If no measures										
	are in place to mitigate this, the										
	significance will be medium to										
	high, but upon implementing the										
	measures, the significance will										
	be reduced to low.										
Air Quality:	There is a potential impact of	M: -3	M: -3	M / L: -4	M / H: 4	M: -40	L/M- 2	L/M-2	L - 2	L/M-2	L - 12
Dust	dust emanating from site access						2				
Generation	roads when transporting										
	exploration equipment and										
	supplies to and from the site.										
	This may compromise the air										
	quality in the area. Additionally,										
	activities carried out as part of										
	the exploration works, such as										
	drilling, would contribute to the										
	dust levels in the air.										
Visual	Exploration activities such as	M - 3	M - 3	M - 6	M / H - 4	M – 48	L / M: -	L / M: -2	L / M: -4	L / M: 2	L: -16
impact:	trenching and drilling may leave						2				
Scenic view	scars on the local landscape.										
of the area	This is bound to happen when										
for Tourism	exploration sites are located										
	close to or along roads, and										
	sizzz to or along roads, and		1							1	

Impact Description	Impact Assessment									
				n Rating	1				on Rating	1
those scare in many cases	Extent	Duration	Intensity	Probability	Significance	Extent	Duration	Intensity	Probability	Significance
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'										
, ,										
the D3716 and D1925.										
The tourists and										
motorists/travelers on the B2,										
D3716, D1925, and other local										
undertaken on the sides of the										
EPLs overlooking or near the										
roads.										
-										
be short.										
The abstraction of more water	M - 3	M - 3	M - 6	M / H - 4	M – 48	L/M-	L/M-2	L - 2	L/M-2	L - 12
than it can be replenished from						2				
low groundwater potential areas										
	these scars, in many cases, contrast with the surrounding landscape and thus may potentially become a visual nuisance, especially in tourist-prone areas such as the site areas. The sight of the explored and unrehabilitated areas of the EPLs may be an eyesore to tourists and travelers alike on B2 and local access roads such as the D3716 and D1925. The tourists and motorists/travelers on the B2, D3716, D1925, and other local roads would be impacted if exploration activities are undertaken on the sides of the EPLs overlooking or near the roads. This impact is considered minimal as only selected site areas will be the focus of exploration, and the duration will be short. The abstraction of more water than it can be replenished from	these scars, in many cases, contrast with the surrounding landscape and thus may potentially become a visual nuisance, especially in tourist-prone areas such as the site areas. 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watering in the area that	Extent	Duration	Intensity	Probability	Significance	Extent	Duration	Intensity	Probability	Significance	
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Fuel Minerals), which is more											
water-consuming compared to											
other techniques like reverse											
circulation. The amount of water											
required for diamond drilling											
would be 10,000 to 25,000 litres											
(10 to 25 m³) per day per hole.											
Given the fact that the site areas											
are underlain by rock units with											
low groundwater potential, the											
Proponent will be carting water											
for drilling from outside the area											
and storing it in industry-											
standard water reservoirs/tanks											
on site and refilling as required.											
The required water would also											
be dependent on the duration of											
the exploration works and the											
number of exploration holes											
	watering in the area that depends on the same low potential groundwater resource (aquifer). The impact of the project activities on the resources would be dependent on the water volumes required by each project activity. Commonly, exploration activities use a lot of water, mainly diamond drilling (for Nuclear Fuel Minerals), which is more water-consuming compared to other techniques like reverse circulation. The amount of water required for diamond drilling would be 10,000 to 25,000 litres (10 to 25 m³) per day per hole. Given the fact that the site areas are underlain by rock units with low groundwater potential, the Proponent will be carting water for drilling from outside the area and storing it in industry-standard water reservoirs/tanks on site and refilling as required. The required water would also be dependent on the duration of the exploration works and the	watering in the area that depends on the same low potential groundwater resource (aquifer). 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impact will only last for the										
duration of the exploration										
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The proposed exploration	M: -3	M: -3	M: -6	M / H: 4	M: -48	L / M: -	L / M: -2	L / M: -4	L / M: 2	L: -16
activities are associated with a						2				
variety of potential pollution										
sources (i.e., lubricants, fuel, and										
wastewater) that may										
contaminate/pollute soils and										
eventually groundwater and										
surface water. The anticipated										
potential source of pollution to										
water resources from the project										
activities would be hydrocarbons										
(oil) from project vehicles,										
machinery, and equipment, as										
well as potential										
wastewater/effluent from										
exploration-related activities.										
The spills (depending on										
volumes spilled on the soils)										
from this machinery, vehicles,										
and equipment could be washed										
into surface water bodies such										
as rivers and streams. The										
	required to make a reliable interpretation of the commodity presence explored during exploration. Therefore, the impact will only last for the duration of the exploration activities and will cease upon their completion. The proposed exploration activities are associated with a variety of potential pollution sources (i.e., lubricants, fuel, and wastewater) that may contaminate/pollute soils and eventually groundwater and surface water. The anticipated potential source of pollution to water resources from the project activities would be hydrocarbons (oil) from project vehicles, machinery, and equipment, as well as potential wastewater/effluent from exploration-related activities. The spills (depending on volumes spilled on the soils) from this machinery, vehicles, and equipment could be washed into surface water bodies such	required to make a reliable interpretation of the commodity presence explored during exploration. 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The anticipated potential source of pollution to water resources from the project activities would be hydrocarbons (oil) from project vehicles, machinery, and equipment, as well as potential wastewater/effluent exploration of the spills (depending on volumes spilled on the soils) from this machinery, vehicles, and equipment could be washed into surface water bodies such

Impact	Impact Description					Impact As	sessmen			Impact Assessment									
				re-mitigatio					ost-mitigation										
	pollution may eventually infiltrate	Extent	Duration	Intensity	Probability	Significance	Extent	Duration	Intensity	Probability	Significance								
	into the ground and pollute the																		
	fractured or faulted aquifers. This																		
	impact would occur during the																		
	heavy rainy seasons, when																		
	surface runoff would be																		
	inevitable. However, it should be																		
	noted that the scale and																		
	extent/footprint of the activities																		
	where potential sources of																		
	pollution will be handled is																		
	relatively small. Therefore, the																		
	impact will be moderately low.																		
Waste	Waste types such as solid,	M: -3	M: -3	M / L: -4	M / H: 4	M: -40	L - 1	L - 1	L - 2	L/M-2	L - 8								
Generation	wastewater, and possibly																		
(Environmen	hazardous will be produced																		
tal pollution)	onsite during exploration. If the																		
	generated waste is not disposed																		
	of responsibly, land pollution																		
	may occur on the EPLs or																		
	around the site. If solid waste,																		
	such as papers and plastics, is																		
	not properly stored or just thrown																		
	into the environment (littering), it																		
	may be consumed by domestic																		
	(livestock) and wild animals,																		
	which could be detrimental to																		
	their health.																		

Impact	Impact Description	Impact Assessment									
		Pre-mitigation Rating Extent Duration Intensity Probability Significance Extent Duration								on Rating	
	Improper handling, storage, and	Extent	Duration	Intensity	Probability	Significance	Extent	Duration	Intensity	Probability	Significance
	disposal of hydrocarbon										
	products and hazardous										
	'										
	materials at the site may lead to										
	soil and groundwater										
	contamination in the case of										
	spills and leakages. Therefore,										
	the exploration programme										
	needs to have appropriate waste										
	management for the site. To										
	prevent these issues,										
	biodegradable and non-										
	biodegradable wastes will be										
	stored in separate containers										
	and collected regularly for										
	disposal at the nearest										
	recognized waste management										
	facilities.										
Occupational	Project personnel (workers)	M - 3	M - 3	M - 6	M / H - 4	M – 48	L / M -	L/M-2	L - 2	L/M-2	L - 12
Health and		101 - 3	IVI - 3	IVI - O	IVI / FI - 4	IVI — 46	2	L/IVI-Z	L-2	L / IVI - Z	L - 12
	involved in the exploration										
Safety Risks	activities may be exposed to										
	health and safety risks. The										
	heavy vehicle, equipment, and										
	fuel storage area will be properly										
	secured to prevent any harm or										
	injury to the Proponent's										
	personnel, locals, and animals.										
	Another potential risks to both										
	people, livestock, and wildlife										
	within the EPLs are unfenced										

Impact	Impact Description	Impact Assessment									
				re-mitigatio	n Rating				ost-mitigatio		
		Extent	Duration	Intensity	Probability	Significance	Extent	Duration	Intensity	Probability	Significance
	exploration trenches or trenches										
	that are not backfilled after										
	completing the sampling.										
	Unsecured exploration trenches										
	and even uncapped holes could										
	pose a risk of people or animals										
	falling into the open trenches,										
	leading to injuries.										
	The use of heavy equipment,										
	especially during drilling and the										
	presence of hydrocarbons on										
	sites, may result in accidental fire										
	outbreaks. This could pose a										
	safety risk to the project										
	personnel and locals, too.										
Vehicular	The local roads, such as the B2,	M - 3	M / H - 4	L/M-4	M / H - 4	M - 44	L / M -	L/M-2	L - 2	L/M-2	L - 12
Traffic Safety	D3716, D1925, and other local	IVI - 3	101 / 11 - 4	L / IVI - 4	101 / 11 - 4	101 - 44	2	L/IVI-Z	L - Z	L/IVI-Z	L - 12
Trailic Salety											
	access roads, are the main										
	transportation routes for all										
	vehicular movement in the EPLs										
	area. There would be a potential										
	increase in traffic flow, especially										
	during the exploration stage of										
	the project activities, due to the										
	delivery of supplies, goods, and										
	services to the site. Depending										
	on the project needs, trucks,										
	medium, and small vehicles will										
	be frequenting the area to and										

Impact	Impact Description	Impact Assessment										
		Pre-mitigation Rating				Post-mitigation Ratir						
		Extent	Duration	Intensity	Probability	Significance	Extent	Duration	Intensity	Probability	Significance	
	from exploration sites on the											
	EPLs. This would potentially											
	increase slow-moving heavy											
	vehicular traffic along these											
	roads.											
	Exploration works will be											
	undertaken in stages, on certain											
	days of the week, with a few											
	vehicles, and the work will be											
	temporary. Therefore, the risk is											
	anticipated to be short-term, not											
	frequent.											
Impact on	The project activities will mean	M: -3	M: -3	M / L: -4	M / H: 4	M: -40	L - 1	L - 1	M / L - 4	M / L -2	L - 12	
local road	an increased movement of				·							
use	heavy trucks and equipment on											
	the local gravel roads, which											
	would exert more pressure on											
	these roads and worsen their											
	conditions. This will be a concern											
	if maintenance and care are not											
	done during the exploration											
	phase. The impact would be											
	short-term and therefore											
	manageable.											
	-											
Noise and	There is a potential for noise	M - 3	M - 3	M - 6	M / H - 4	M – 48	L - 1	L/M-2	L - 2	L/M-2	L - 10	
vibration	from certain activities, especially											
from drilling	drilling and trenching, which may											
	be a nuisance to locals and											
	animals. Excessive noise and											

Impact	Impact Description	Impact Assessment											
		Pre-mitigation Rating						Post-mitigation Rating					
	vilanationa with automy protective	Extent	Duration	Intensity	Probability	Significance	Extent	Duration	Intensity	Probability	Significance		
	vibrations without any protective												
	measures in place can also be a												
	health risk to workers on site.												
	The exploration equipment used												
	for drilling on site is of medium												
	size, and the noise level is bound												
	to be limited to the site only;												
	therefore, the impact likelihood is												
	minimal.												
A l l l	A - fully described in the ALUA	M. 0	M: -3	NA / L . A	M / H: 4	M: -40	1 4	L/M-2	1 0	L / M -2	L - 10		
Archaeologic	As fully described in the AHIA	M: -3	IVI: -3	M / L: -4	IVI / H: 4	IVI: -40	L - 1	L / IVI - Z	L - 2	L / IVI -2	L - 10		
al and	Report (Mushi, 2025), EPL 9885												
Heritage	& 9985 are located within the												
resources	#Gaingu Conservancy. The												
	findings reported are from areas												
	within the EPL of which were												
	generally MODERATE to LOW.												
	Mushi (2025) concluded that the												
	proposed project area has low												
	archaeological significance.												
	However, any potential residual												
	impacts can be effectively												
	mitigated provided that all												
	recommendations outlined in												
	this report are strictly followed												
	and implemented, and that the												
	· ·												
	necessary approvals are												
	obtained from the NHC.												
	Should any archaeological or												
	cultural heritage materials—												

Impact	Impact Description	Impact Assessment									
		Pre-mitigation Rating							ost-mitigation		
		Extent	Duration	Intensity	Probability	Significance	Extent	Duration	Intensity	Probability	Significance
	such as graves or human										
	skeletal remains—be discovered										
	during the exploration phase, all										
	operations must cease										
	immediately, and a qualified										
	archaeologist must be contacted										
	to assess the find and determine										
	appropriate next steps. Direct or										
	indirect impacts or risks of										
	impact on archaeological sites										
	located near or in the vicinity of										
	the proposed exploration project										
	can be reduced to acceptable										
	levels by the adoption of										
	appropriate recommended										
	mitigation measures, including										
	integration of the archaeological										
	heritage record and Chance										
	Finds procedure in the project										
	EMP (Mushi, 2025).										

7.5 Cumulative Impacts Associated with the Proposed Exploration

According to the International Finance Corporation (2013), cumulative impacts are defined as "those that result from the successive, incremental, and/or combined effects of an action, project, or activity (collectively referred to in this document as 'developments') when added to other existing, planned, and/or reasonably anticipated future ones". Similarly, like many other exploration projects, some of the cumulative impacts that the proposed project and associated activities potentially contribute to are the following:

- Poaching (illegal hunting of wildlife): During the ESA consultation process, it was indicated that
 poaching has been ongoing in the area, and some of which could be linked to people from outside
 the area. Therefore, this impact is likely to continue with the introduction of additional people
 (related to projects) in the area. Regardless, mitigation measures will need to be implemented to
 mitigate these impacts.
- Impact on road infrastructure: The proposed exploration activities will contribute cumulatively to various existing activities, such as travelling associated with tourism, and existing mineral licenses and other projects in the area. The contribution of the proposed project to this cumulative impact is, however, not considered significant given the short duration and local extent (selected site areas narrowed during exploration) of the intended mineral exploration activities.
- Impact on Archaeological and Heritage resources: according to Mushi (2025), some archaeological materials, such as stone artefacts and sites, are likely to be lost during the clearance of land or the construction of other facilities necessary for exploration works. Similarly, the focus of mitigation measures in this report is to recommend the layout of the project to avoid all known significant heritage or cultural sites and burial places, and will thus make a negligible contribution to cumulative impacts. The cumulative impacts are deemed to be of low significance in this case. However, the implementation of project-specific mitigation recommended in the EMP would drop to very low levels after mitigation.

8 CONCLUSIONS

The ESA Study for the proposed exploration activities on EPL-9885 and EPL-9985 was undertaken per the EMA and its 2012 EIA Regulations. Some key potential positive and negative impacts were identified. The key negative impacts were described, assessed, and appropriate management and mitigation measures were made for implementation by the Proponent, their contractors, and workers.

The public was notified as required by Sections 21 to 24 of the EIA Regulations by placing adverts in three newspapers (*New Era and Windhoek Observer*) dated 22 and 28 January 2025. Consultation meetings were held with key stakeholders (Oe-Gan Traditional Authority and the #Gaingu Conservancy Management) on the 15th of August 2025 in Spitzkoppe. The comment period was extended to the 29th of August 2025 to allow time after the meetings.

The comments provided do not halt or object to the proposed project activities, but were meant to contribute to the improvement of the EMP and ensure that the biological, physical, and social environments are protected during the implementation and after completion of the project activities.

<u>Impact Assessment:</u> The key negative impacts were described and assessed. The potential negative impacts indicated a medium rating of significance. To minimize the significance, appropriate management and mitigation measures are made for implementation by the Proponent, their contractors, and workers to avoid and/or minimize their significance on the environmental and social components. The effective implementation of the recommended management and mitigation measures, accompanied by monitoring, will particularly see a reduction in the significance of adverse impacts that cannot be avoided completely (from medium rating to low).

Apart from the necessary Archaeological and Heritage Impact Assessment (AHIA), which is required by the National Heritage Council for evaluation and issuance of the heritage consent for the MEFT, no other or further detailed assessments are required for the EIA Scoping Study for the proposed prospecting and exploration activities. Therefore, the study was deemed sufficient and concluded that no further assessments are required for the ECC application for the prospecting and exploration activities.

Serja Consultants are confident that the potential negative impacts associated with the proposed project activities can be managed and mitigated by the effective implementation of the recommended management and mitigation measures, and with more effort and commitment put on monitoring the implementation of these measures. It is therefore recommended that the proposed prospecting and exploration activities be granted an Environmental Clearance Certificate, and provided that:

 All the management and mitigation measures provided herein are effectively and progressively implemented.

- All required permits, licenses, and approvals for the proposed activities should be obtained as required. These include permits and licenses for land use agreements, service provision agreements (water provision), and exploring and ensuring compliance with these specific legal requirements.
- Transparency, timely communication, and continued engagement with key stakeholders (Oe-Gan Traditional Authority and the #Gaingu Conservancy) before and during exploration should be maintained throughout the project.
- The Proponent, their project workers or contractors, comply with the legal requirements governing
 their project and its associated activities and ensure that project permits and or approvals required
 to undertake specific site activities are obtained and renewed as stipulated by the issuing
 authorities.
- Site areas where exploration activities have ceased are rehabilitated, as far as practicable, to their pre-exploration state. This includes the levelling of stockpiled topsoil, backfilling of exploration trenches, and closing/capping of exploration holes.
- Respecting no-go zone areas and avoiding exploring within buffer zones should be effectively implemented.

To maintain the desirable rating and ensure that the potential impacts are under control, the implementation of management and mitigation measures should be monitored by the Environmental Control Officer (ECO) and audited by an Independent Environmental Consultant on a bi-annual basis. The monitoring of this implementation will not only be done to maintain the reduced impacts rating or maintain a low rating, but also to ensure that all potential impacts that might arise during implementation are properly identified in time and addressed immediately.

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