

APP: 250109005150

# Environmental Scoping Study For the Proposed Drilling of Boreholes for Water at Ongongo and Ovikuasiona area in Ongongo Conservancy, Kunene Region



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#### **ACRONYMS**

**CBNRM** Community Based Natural Resource Management

**CCFN** Community Conservation Fund of Namibia

**CEO** Chief Executive Officer

**DEA** Department of Environmental Affairs

**DWA** Department of Water Affairs

**EA** Environmental Assessment

**EAP** Environmental Assessment Practitioner

**EC** Environmental Commissioner

ECC Environmental Clearance Certificate

EIA Environmental Impact Assessment

EMA Environmental Management Act (No. 7 of 2007)

EMP Environmental Management Plan

**ESI** Environmental Social Indicators

**ESMF** Environmental and Social Management Framework

**FDM** Frequency Domain Electromagnetic

FPIC Free Prior Informed Consent

GPS Global Positioning System

GRM Grievance Redress Mechanisms

I&APs Interested and Affected Parties

ILO International Labour Organization

**IRDNC** Integrated Rural Development and Nature Conservation

**IWRM** Integrated Water Resource Management

**KFW** German Development Bank

L Litre m³ Cubic

MAWLR Ministry of Agriculture Water and Land Reform

MEFT Ministry of Environment Forestry and Tourism

MM Millimetres

Mm<sup>3</sup> Million Cubic

NACSO Namibian Association of CBNRM Support Organizations

°C Degree Celsius

OMDEL Omaruru Delta

**PPE** Personal Protective Equipment

**PPP** Public Participation Process

**R** Reversible

**RD** Red-Dune Consulting CC

**SEMP** Social Environmental Management Plan

SM Site Manager

#### **EXECUTIVE SUMMARY**

Before Namibia's independence in 1990, people living in communal areas had limited rights to access or use wildlife. After gaining independence, Namibia implemented policies and legal frameworks aligned with Article 951 of its Constitution, which allowed communities and private businesses to benefit from wildlife tourism and sustainable natural resource management. This approach is known as Community-Based Natural Resource Management (CBNRM).

#### i. The CBNRM Concept

The CBNRM concept is based on the idea that when rural communities have rights to use, benefit from, and manage natural resources, they are motivated to use them sustainably. By establishing Conservancies, the CBNRM program connects conservation with poverty reduction, fostering industries like conservation, hunting, and tourism. This drives economic growth, creates jobs, and improves the well-being of rural communities.

#### ii. The Ongongo Conservancy and Human-Wildlife Conflict

Ongongo Conservancy is home to a diverse range of wildlife, including elephants and feline predators such as Caracal, cheetahs, hyena and leopards. Human-wildlife conflict in the area is primarily due to livestock attacks by caracal and cheetah but seldom.

The conservancy's extreme arid conditions exacerbate the challenges faced by both wildlife and humans. The cattle post areas lack water particularly after rainfall season leaving many animals without access to water. As a result, some livestock and wildlife succumb to the drought, highlighting the need for a water point. While at Ongongo settlement, the existing water point does not meet that community water demand.

# iii. Addressing Human-Wildlife Conflict through Community Conservation Fund of Namibia (CCFN)

To address the HWC challenge, Ongongo Conservancy applied for a grant from the Community Conservation Fund of Namibia (CCFN) to support the drilling of a water point at cattle post areas of Ovikuasiona and at Ongongo settlement. The proposed support will ensure that both wildlife and local communities have reliable access to water throughout the year. This initiative is expected to alleviate water scarcity, reduce the risk of drought-related livestock losses, and mitigate the pressure on wildlife to move closer to human settlements in search of water.

#### iv. The Ovikuasiona and Ongongo Borehole Project

With funding from the German Government through KfW Development Bank, CCFN is running the "Poverty-Oriented Support to Community Conservation in Namibia" project. The project aims to promote biodiversity conservation and rural development by establishing sustainable Human-Wildlife Conflict (HWC) management systems in communal conservancies. As part of this effort, CCFN is helping the Ongongo Conservancy drill a borehole at Ovikuasiona and Ongongo area. The project focuses on creating long-term HWC management solutions and supporting conservancies to address these challenges in line with Namibia's national policies.

#### v. Environmental Compliance and the Role of Red-Dune Consulting CC (RDC)

Section 27 of the Environmental Management Act (EMA) lists the "Abstraction of groundwater" as an activity that may not be undertaken without an Environmental Clearance Certificate. To fulfil these statutory requirements, Red-Dune Consulting CC (RDC) was appointed to develop an Environmental Management Plan (EMP) that would guide the drilling and operation of the proposed boreholes.

# vi. Project Impact and Groundwater Monitoring

The project's scale is relatively small, and its potential negative impacts are minimal. In fact, it has a positive socio-economic impact by addressing the challenge of Human-Wildlife Conflict (HWC). The boreholes will be drilled in areas that are free of biodiversity. However, excessive groundwater extraction, particularly over the long term, could lead to the deterioration of water quality and depletion of the water table. Therefore, it will be essential to implement groundwater monitoring measures to ensure sustainable management.

#### 1 INTRODUCTION AND BACKGROUND

#### 1.1 Poverty Oriented Support to Community Conservation in Namibia

The Community Conservation Fund of Namibia (CCFN) is a non-profit Association incorporated under Section 21 of Namibia's Companies Act of 2004. Using a foundation model, the CCFN is mandated to raise funds and manage various financial mechanisms such as endowments, sinking or revolving funds, to ensure the long-term sustainability of Community-Based National Resource Management (CBNRM) activities that are carried out by communal conservancies and other entities with a similar legal mandate.

## 1.2 Community Based Natural Resource Management

Prior to Namibia's independence in 1990, wildlife management in communal areas was characterized by significant restrictions. Residents had limited wildlife utilization rights, particularly regarding hunting. Wildlife, especially predators and foraging animals, were viewed primarily as threats due to their destructive impact on crop fields, potential for human attacks, livestock predation, and infrastructure damage. These conflicts often led communities to retaliate by killing wildlife, giving rise to what became known as Human Wildlife Conflict and Wildlife Crime (HWC-WC).

Following independence, Namibia underwent a fundamental shift in its approach to wildlife management, guided by Article 951 of the Constitution, which states: "The State to actively promote and maintain the welfare of the people by adopting policies aimed at the maintenance of ecosystems, essential ecological processes and biological diversity of Namibia and utilization of living natural resources on a sustainable basis for the benefit of all Namibians, both present and future." This constitutional mandate led to the development of new policies, legal frameworks, and strategies to address HWC-WC.

A key innovation was the introduction of Community-Based Natural Resource Management (CBNRM), governed by the National Policy on Community Based Natural Resource Management. This approach enables local communities and private businesses to benefit from wildlife-based tourism and sustainable resource management. The CBNRM concept operates on the principle that when natural resources hold substantial value for rural communities, and when communities are granted rights to use, benefit from, and manage these resources, they develop stronger incentives for sustainable resource management through conservancy establishment. This program effectively links conservation efforts with poverty reduction by developing conservation hunting and tourism industries, thereby contributing to the national Gross Domestic Product, creating employment opportunities, and improving the overall well-being and social development of rural communities.

#### 1.3 Conservancies and Management

Conservation Ordinance 4 of 1975. This ordinance requires a conservancy to be composed of a committee which, is elected by their members. Overall, communal conservancies are self-governing, democratic entities, run by their members, with fixed boundaries that are agreed with adjacent conservancies, communities or landowners. Conservancies are recognised by the MEFT, but not governed by the Ministry, which does, however, have powers to de-register a conservancy if it fails to comply with conservation regulation<sup>1</sup>. Wildlife in the conservancies is managed through a wildlife management plan. Like many legal financial entities, conservancies conduct annual general meetings and prepare financial reports<sup>2</sup>.

#### 1.4 Human Wildlife Conflict (HWC) Challenge in Conservancies

The Community-Based Natural Resource Management (CBNRM) initiative has led to the remarkable recovery and increase in wildlife populations, including key predator species and

<sup>&</sup>lt;sup>1</sup> Nature Conservation Ordinance 4 of 1975

<sup>&</sup>lt;sup>2</sup> https://www.meft.gov.na/services/conservancies/193/

internationally threatened or endangered species such as elephants and black rhinoceros<sup>3</sup>. However, this increased wildlife population resulted into their expanded foraging ranges into communal and freehold farming arear resulting in an increased frequency and severity of Human Wildlife Conflict (HWC) especially involving elephants, feline predators, crocodiles and hippopotamus<sup>45</sup>.

The conflicts include damage to crops, gardens and infrastructure (water points, fences, kraals, boreholes, etc.), loss of life or injuries to people and livestock mortalities. The situation is further complicated by climate change impacts on arid ecosystems, where limited environmental resources have intensified competition between livestock and wildlife populations for essential resources, particularly grazing areas and water sources.

To address these challenges, several mitigation strategies have been implemented, including the establishment of zonation systems in conservancies. These systems designate specific areas for farming, multiple-use activities, and dedicated wildlife zones for tourism and trophy hunting. Additional protective measures include enhanced livestock management through supervised herding, secure nocturnal enclosures, and the installation of protective infrastructure around gardens and water facilities.

#### 2 ONGONGO CONSERVANCY

The Ongongo Conservancy, established in February 2012, is situated in Namibia's Kunene Region sitting between Etanga and Otjiu-West (See Figure 1 below). This conservation area encompasses 501 square kilometres of territory and supports an approximate population of 971 inhabitants. The conservancy operates under Namibia's community-based natural resource management program, which empowers local communities to manage their natural resources sustainably while deriving economic benefits from conservation efforts.

<sup>&</sup>lt;sup>3</sup> Republic of Namibia: Revised National Policy on Human Wildlife Conflict Management 2018-2027

<sup>&</sup>lt;sup>4</sup> Brian T. B. J and Jonathan I. Barnes 2006., Human Wildlife Conflict Study Namibian Case Study

<sup>&</sup>lt;sup>5</sup> Ailla-Tessa Nangula Iiyambula 2021., Identifying the Spatio-Temporal Distribution and Drivers Of Human-Carnivore Conflict In Epupa And Okanguati Conservancies, Erongo Region Namibia

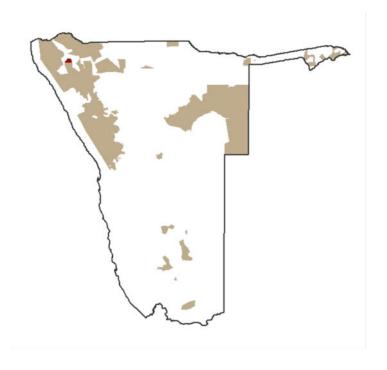


Figure 1. Map of Ongongo Conservancy (Source: NASCO, 2022)

The proposed boreholes will be drilled at Ovikuasiona GPS coordinate -18.15555556, 13.38250000 and Ongongo area GPS coordinate -18.06888889 S, 13.38250000 E (*See Figure 2&3*)



Figure 2. Ovikuasiona Borehole site



Figure 3. Ongongo Borehole site (pile of rocks) (Source Red-Dune 2024)

# 2.1 Support from Community Conservation Fund of Namibia (CCFN)

With financial support from the German Government through the KfW Development Bank, CCFN is implementing a project, "Poverty Oriented Support to Community Conservation in Namibia". The project's main objective is to contribute to biodiversity conservation and rural development through the establishment of sustainable Human-Wildlife-Conflict (HWC) management systems in Namibia's communal conservancies.

In line with the project objectives, CCFN is supporting the Ongongo Conservancy in drilling a borehole at Ovikuasiona and Ongongo area.

This intervention speaks to the project's objective of (i) working together with CBNRM partners<sup>6</sup> to develop and institutionalize long-term mechanisms and structures that make management of HWC part of the sustainability strategy of CBNRM (ii) providing targeted conservancies with the

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<sup>&</sup>lt;sup>6</sup> IRDNC

means to address the HWC challenges they face in line with the National Policies of Namibia, which is of relevance to this proposed intervention.

# 3 STATUTORY REQUIREMENTS

The protection of the environment is provided for under Article 951 of the Namibia Constitution. The Environmental Management Act (Act No 7 of 2007) (EMA) and its Environmental Impact Assessment Regulation 2012, list Water Resource Developments activities that cannot be undertaken without an Environmental Clearance Certificate (ECC). These activities include:

- a) 8.1 The abstraction of ground or surface water for industrial or commercial purposes
- b) 8.2 The abstraction of groundwater at a volume exceeding the threshold authorised in terms of a law relating to water resources.

To comply with these statutory requirements, Red-Dune Consulting CC (RDC) was appointed to develop an Environmental Management Plan (EMP) for the drilling of the borehole. In addition to the EMA, other statutory requirements must also be fulfilled. The Ministry of Agriculture, Water, and Land Reform, as the custodian of the Water Resources Management Act (No. 11 of 2013), requires that a permit be obtained prior to the commencement of any borehole drilling activities.

#### 4 TERMS OF REFERENCE

This scoping is guided by the provisions of in the EIA Regulation 2012, Section 9 (a-b) but, not limited to the following.

- Provide a comprehensive description of the proposed Project.
- Identify relevant legislation and guidelines for the project.
- Identify potential environmental (physical, biological and social) conditions of the project location and conduct risk assessment.
- Inform Interested and Affected Parties (I&APs) and relevant authorities about the proposed project to enable their participation and contribution.

• Develop an Environmental Management (EMP) that would be a legal guideline for the environmental protection by the project.

#### 5 THE PROPONENT

Ongongo Conservancy is the proponent for this application with financial support from CCFN.

#### 6 PROJECT ALTERNATIVES

The EMA) requires an impact assessment to explore various project alternatives, ensuring that the chosen project component does not have a significant negative impact on the environment. Project alternatives can range from not implementing the project at all (the "no-go" alternative), particularly when environmental impacts are severe or there is a high degree of uncertainty. Other alternatives may involve changes to the project site, technology, or equipment to be used. The description of alternatives is given in Error! Reference source not found. below.

#### 6.1 No-go alternative

If this option is considered, it would mean that the current status quo will remain unchanged. The region is highly susceptible to drought, and in the event of prolonged dry spells, livestock and wildlife population could be severely impacted which is vital for income generation through tourism.

Additionally, as water resources become scarcer, wildlife may increasingly move closer to human settlements in search of water. This could result in wild animals congregating around boreholes that are primarily intended to supply water for the community. Such proximity to human habitation would significantly heighten the potential for Human-Wildlife Conflict (HWC). This could lead to more frequent interactions between wildlife and people, particularly in the form of livestock predation or damage to crops.

Thus, maintaining the status quo could exacerbate both environmental and socio-economic challenges for the conservancy, undermining its capacity to support wildlife conservation, tourism, and the sustainable livelihoods of the local population. Addressing these challenges through alternative strategies, such as providing additional water sources for wildlife, is crucial for the long-term success of the conservancy.

#### **6.2** Alternatives

Generally, a combination of alternatives to drilling could be considered. These include rainwater harvesting and aquifer recharge, which can provide a more resilient and sustainable approach to water resource management. However, none of these alternatives is applicable to the Kunene region due to its arid conditions. Additionally, the environmental priority for the proposed borehole is to respond to the dry and harsh climate of the region. Ultimately, a holistic approach will need to be implemented, one that incorporates the use of renewable energy and the adoption of water conservation measures to ensure water security while protecting the environment.

#### 7 DESCRIPTION OF THE RECEIVING ENVIRONMENT

#### 7.1 Climate

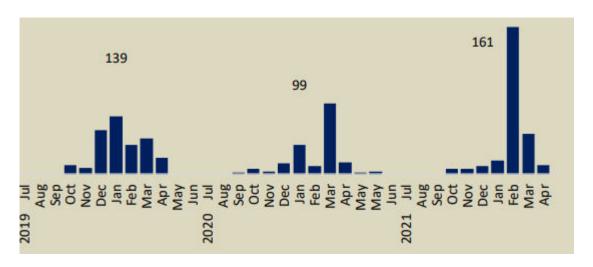
Namibia is the most arid country in Sub-Saharan Africa. The country has high climatic variability in the form of persistent droughts, unpredictable, low, and variable rainfall patterns leading to scarcity of water<sup>7</sup>. The rainfall is highly sporadic ranging from 50mm – 600mm per year which increases from the western part of the country to the eastern part.

The geographical feature of Kunene Region makes it one of the most vulnerable Region to climate in Namibia which is still one of the most affected Region by drought in the country. The Region's rainfall is highly sporadic with little as 25mm per year which increases from the western part of

<sup>&</sup>lt;sup>7</sup> Namibia Fourth National Communication to the United Nations Framework Convention on Climate Change. Windhoek: Ministry of Environment Forestry and Tourism, March 2020

the Region to the eastern part. The Region's temperature is amongst the highest with an average maximum temperature between 35°C and minimum between 14°C.

The rainfall data for Ongongo Conservancy from 2019 to 2021 demonstrates a distinct seasonal pattern, with peak precipitation occurring during the summer months (November to March) and minimal rainfall during the winter period (May to October). The data shows considerable variation both within and between years, with the highest recorded rainfall of 161mm in 2021, followed by 139mm in 2019, and a lower peak of 99mm in 2020. Each year exhibits extended dry periods, particularly during the middle months, highlighting the area's cyclical pattern of wet and dry seasons. This rainfall pattern creates a dynamic environment where precipitation is concentrated in specific months, followed by prolonged periods of minimal rainfall (**Figure 4**).



**Figure 4:** Rainfall trends in Ongongo Conservancy (Source: NACSO, 2022)

# 7.2 Populational demography

On 13th March 2024 the Namibian Statistic Agency released a preliminary report that gives the provisional results from the 2023 Population and Housing Census (PHC) of Namibia to be 3.02 million people. The population has increased by 909,324 people from the 2.1 million people recorded in 2011, constituting an annual growth rate of 3.0% per annum. This rate is double what was observed in the previous intercensal period (2001 to 2011 which was 1.4% per annum) and is

the highest observed since independence (see Figure 6). At this rate, by the year 2050 the population of Namibia would be over 6 million.

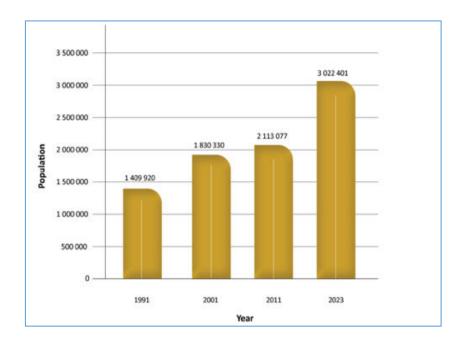


Figure 5. Trend of the Namibia Population

- Females make up a greater proportion of the population in the 2023 PHC as has been the trend for the past four censuses.
- Khomas region remains the most populous region in Namibia with a population of 494,729 people. Ohangwena region closely follows as the second most populous region with a population count of 337,729 people. Omusati is the third most populous region, with a population count of 326,671 people and these are similar trends as observed in the 2011 census.
- Erongo region is the fifth populous region, whose population in 2011 was 150 809 and grew to 240 206 representing 59.3 % change and 7.9% of the total population.
- //Kharas region and Erongo region recorded the smallest household size of 3.1 people per household while the largest household size was recorded in Kavango East and Kavango West Regions, with a household size of 5.3 and 5.5 respectively.
- Average household size has been on the decline since 1991 which is currently at 3.8 persons per household.

- The total number of households has grown by 291,500 (representing a 62.7% increase) over the 464,839 households enumerated in 2011.
- The region with the highest population density is Ohangwena with 31.5, persons per square kilometer, followed by Oshana region with 26.7 and Khomas region with 13.4 persons per square kilometer. //Kharas, Hardap, and Kunene regions are the most sparsely populated regions with 0.7 and 1.0 persons per square kilometer respectively (see Figure 6).

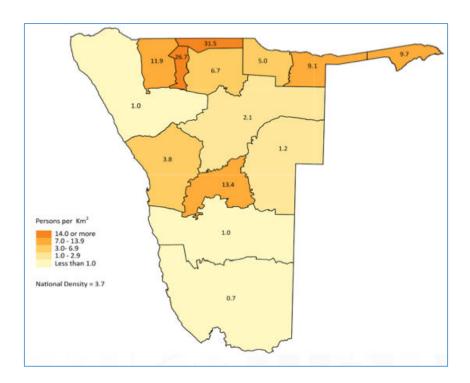


Figure 6. Namibian Regional Population Density

#### 7.3 Socio-economic profile

The community of Ongongo Conservancy are communal farmers who rear livestock. Tourism is one of the main incomes generating activity for the conservancy through trophy hunting concession.

#### 7.4 Biodiversity

The Ongongo Conservancy is home to diverse wildlife and vegetation. The landscape is covered with Mopane savanna trees, mixed woodlands featuring *Acacia, Cammiphora*, and *Terminalia* species, along with Bushman grass and *Stipagrostis* grasses. The area is particularly significant as it hosts part of the world's only free-roaming black rhino population, alongside other large mammals including eland, giraffe, blue wildebeest, roan, red hartebeest, sable, black-faced impala, and zebra as well as Ostriches.

#### 7.5 Hydrogeology

Kunene Region derived its name from the might Kunene Region. Except for the Kunene River, all rivers in the Region are ephemeral. These are the tributaries of the Kunene flowing north, e.g., Otjinjange, Omuhongo and Ondoto, and the westward- flowing ephemeral rivers (from north to south), Nadas, Sechomib, Khumib, Hoarisib, Hoanib, Uniab, Koigab, Huab and Ugab.

Generally, the Region has low groundwater potential and knowledge and understanding of aquifer characteristics in the Region is sparse due to few numbers of drilled boreholes and fewer groundwater studies done in the area. The degree of metamorphism affects the groundwater potential in the Region as it is characterized by granitic and metamorphosed rocks which exhibit low tendency to store groundwater.

Groundwater in the Region is mostly found in fractured and faults underlain by granite and metasediments with low yield of water. The risk of over-abstraction in these fractured 'aquifers is high and common. Small water supply schemes from borehole in fractures in quartzite and granite of the Huab Complex for schools at Anker and Erwee, south of the landscape, has their water quality deteriorated due to over-abstraction. The low storage capacity of the rocks combined with erratic recharge and high consumption led to over- abstraction of the aquifer. There are several natural springs in the Region which are critical source of water for human and wildlife, but many dries up due to frequent prolonged drought in the Region. The conservancy name 'Ongongo' is an Afrikaans word for 'six fountains.

There is not much surface water in Kunene Region. The little rain that falls evaporates, seeps into the ground, or is rapidly drained by ephemeral rivers. Well-developed drainage takes the form of deeply incised and structurally controlled stream-courses leading north to the Huab River and south to the Aba Huab River, from the elevated area within the conservancy areas.

#### 7.6 Land use

The conservancy is zone into various uses as indicated in figure 7 below.

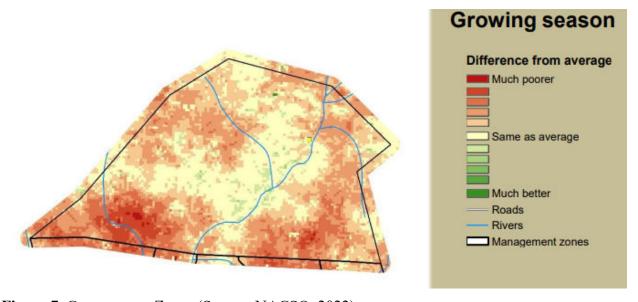


Figure 7. Conservancy Zones (Source: NACSO, 2022)

#### 8 THE NEED AND DESIRABILITY OF THE PROJECT

The project aligns with the objectives of the Community-Based Natural Resource Management (CBNRM) programme, specifically in addressing the challenges of HWC while promoting wildlife conservation and fostering poverty reduction. By creating a sustainable solution to mitigate HWC,

the project supports the well-being of local communities and provides long-term conservation incentives.

Furthermore, the project contributes to the broader goals of Namibia's Integrated Water Resource Management (IWRM) framework. IWRM is designed to ensure the sustainable management of the country's water resources, balancing the needs of social equity, economic efficiency, and environmental sustainability. The implementation of this borehole in the Ovikuasiona and Ongongo area, which was deserted by the community due to water scarcity, demonstrate the IWRM principles by addressing water scarcity in rural communities while ensuring that water resources are used in a way that supports both human and ecological needs.

#### 9 POLICY AND LEGAL FRAMEWORK

Namibia has developed a comprehensive set of policies, regulatory frameworks, and institutions designed to ensure the conservation, sustainable use, and equitable sharing of natural resources, biodiversity, and ecosystems (*Table 1*). These efforts are in alignment with both international conventions and national legislation. In addition to its domestic policies, Namibia is a signatory to several international treaties, conventions, and multilateral agreements, which further guide its environmental governance. The country actively participates in various international standards, such as the United Nations Development Programme's Social and Environmental Standards (UNDP's SES), and engages in reviews and processes that are critical to the sustainable management of natural resources and the protection of basic rights, including access to a clean and healthy environment.

**Table 1.** Policy and Legal Framework

Legislation	Relevant authority Applicability	
The Namibia	Government	The Namibian constitution is the supreme law of the country and makes
Constitution	Republic of Namibia provision for environmental protection and sustainable development.	
Environmental	Ministry of	The Environmental Management Act No. 7 of 2007 aims to promote the
Management Act No. 7	<b>Environment,</b> sustainable use of natural resources. It establishes a framework for environmental	
of 2007	Forestry and and social impact assessments, requires precautionary measures and mitigation	
	<b>Tourism</b> of activities that could harm the environment, and addresses incidental mat	
		The Act also specifies a list of activities that cannot proceed without an
		environmental clearance certificate.

Legislation	Relevant authority	Applicability		
		The Environmental Assessment Policy for Sustainable Development and		
		Environmental Conservation highlights the importance of environmental		
Environmental	Ministry of	assessments in implementing integrated environmental management. It urges		
<b>Assessment Policy</b>	cy Environment, Namibians to prioritize ecosystem protection and ecological processes			
(1995)	Forestry and	policy mandates environmental assessments for all developments and provides		
	Tourism	guidelines for their implementation. It emphasizes that potential impacts should		
		be considered early in the project design and planning stages, with mitigation		
		measures incorporated from the outset.		
Pollution Control and	MEFT, MHSS and	The Pollution Control and Waste Management Bill, intents to regulate and		
Waste Management Bill	others	prevent the discharge of pollutants into the air and water as well as providing for		
(in preparation)		general waste management.		
Public Health Act (Act	Ministry of Health	The Public Health Act aims to protect the public from nuisance and states that no		
,	and Social Services	person shall cause a nuisance or shall suffer to exist on any land or premises		
No. 36 of 1919)		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.		
Water Resources	Ministry of	This Act provides a framework for managing water resources based on the		
	Agriculture, Water	principles of integrated water resources management. It provides for the		
Management Act (Act	and Land Reform	management, development, protection, conservation, and use of water resources.		
No. 11 of 2013)		Therefore, water abstraction should satisfy the provisions of the water act (water		
		abstraction / borehole permit should be applied from the respective ministry).		

Legislation	Relevant authority	Applicability	
		This act states that, all water resources belong to the State. It prevents pollution	
		and promotes the sustainable utilization of the resource. To protect these	
	Ministry of	resources, this act requires that permits are obtained when activities involve the	
Water Act No, 54 of	Agriculture, Water	following:	
1956	and Land Reform	(a) Discharge of contaminated into water sources such as pipe, sewer, canal, sea	
		outfall and	
		(b) Disposal of water in a manner that may cause detrimental impact on the water resources	
S-1 C	Ministry of		
Soil Conservation Act	Agriculture, Water	This act promotes the conservation of soil, prevention of soil erosion. Prevent	
No. 76 of 1969	and Land Reform	soil salinification.	
National Heritage Act	Ministry of Urban	The Act makes provision for the protection and conservation of places and	
No. 27 of 2004	and Rural	objects of heritage significance and the registration of such places and objects.	
No. 27 01 2004	Development	Part V Section 46 of the Act prohibits removal, damage, alteration or excavation	
		of heritage sites or remains, while Section 48 sets out the procedure for	
		application and granting of permits.	
Regional Councils Act,	Ministry of Urban	The Regional Councils Act legislates the establishment of Regional Councils that	
1992 (Act No. 22 of	and Rural	are responsible for the planning and coordination of regional policies and	
1992)	Development	development. The main objective of this Act is to initiate, supervise, manage and evaluate regional development.	

#### 10 PUBLIC CONSULTATION

Section 21 of the EIA Regulation requires the undertaking of an Environmental Impact Assessment (EIA) to follows a robust and comprehensive public consultation. This is an important process, because it gives members of the public, especially the Interested and Affected Parties to comment or raise concerns that may affect their socio-economic or general environment because of the project. Further, it solicits crucial local knowledge that the Environmental Assessment Practitioner may not have.

The Public Participation Process (PPP) was focused on members of the conservancy. While competent and or regulatory authority such as Ministry of Environment Forestry and Tourism (MEFT), Ministry of Agriculture Water and Land Reform (MAWLR), where consulted during the project development phase for application for the ECC.

#### **10.1 Conservancy Consultation**

Red-Dune held a meeting with members of the Conservancy including traditional leaders on 12th December 2024 at Ongongo settlement (**Figure 8**).



**Figure 8.** Meeting at Ongongo village (Source: Red-Dune Consulting, 2024).

- The meeting was attended by traditional leaders, members of the Conservancy Management Committees and public (*See Appendix A*).
- Red-Dune informed the meeting that, the proposed development of water points is a result of
  the conservancy request to be assisted in dealing with the challenge of HWC and social
  upliftment of the community. The measure aims to provide water to the community and to
  wildlife areas to prevent them from coming to farming areas where they often destroy crops.
- Red-Dune presented the meeting objectives, particularly the requirement of the Environmental Social Safeguards (ESS) and the need for environmental impact assessment and community consultations.
- The meeting was informed that, the proposed water point will be developed with funding from Community Conservancy Fund of Namibia (CCFN) which received funding from the KfW development bank to support communal conservancies to mitigate issues of Human Wild Conflict (HWC).
- KfW require that the money is spent wisely and accounted for to the benefit of the communities and ensure that project implementing agencies observe the highest standard of Environmental and Social Safeguard (ESS) which aims to ensure that the project is environmental and social sustainability.
- The meeting was informed that, the ESS requirement does not be support projects if amongst many red flags, if it involves:
  - o Displacement of people
  - Destroying heritage sites
  - o Damaging critical biodiversity habitat
  - o Conflict in the community
- The meeting was further informed that the protection of the environment is provided for under the Environmental Management Act (Act No. 7 of 2007) (EMA) and its Environmental Impact Assessment Regulation 2012 where EMA has listed Water Resource Developments activities, such as drilling of boreholes not to be undertaken without an Environmental Clearance Certificate (ECC).
- To obtain an ECC, a Social and Environmental Impact Assessment must be undertaken, which is one of the core components of the consultation.

- Lastly the meeting was informed that, a consent letter is one of the requisites for the project to be implemented. This consent letter, called 'Free Prior Informed Consent' (FPIC) represent the community in understanding and agreeing to the proposed water development project. The FPIC was explained to the project as follows.
  - FREE refers to a consent given voluntarily and absent of coercion, intimidation or manipulation.
  - PRIOR means consent is sought sufficiently in advance of any authorization or commencement of activities
  - o **INFORMED** means that community was well informed about the project, and they know all information about the project.
  - CONSENT refers to the collective decision made by the rights-holders and reached through the customary decision-making processes of the affected peoples or communities.
- Free Prior Informed Consent was signed by the area headman (*Appendix B*).

#### 10.2 Site Assessment

The Ovikuasiona area is located on the southern side of the Ongongo settlement. It is primarily a cattle-post area, which is occasionally frequented by elephants. Ongongo, on the other hand, is the main settlement in the conservancy. The cattle post area is mostly made up of sparsely mopane trees (*see Figure 9*) the community has cleared shrubs for the access road and the site is free of vegetation. While at Ongongo settlement, the area is free of vegetation (*see Figure 2&3 above*).



Figure 9. Borehole site at Ovikuasiona area

#### 11 ENVIROMENTAL AND SOCIAL IMPACT ASSESSMENT

#### 11.1 Introduction

This chapter outlines the potential impacts (negative and positive) associated with drilling the borehole. The identified impacts are categorized into three components: impacts on the biophysical environment; Impacts on the health and safety; and impacts on socio-economic. It further provide the criteria used for impact assessment. The developed Environmental Social Management Plan (ESMP) for the project is a living document. Hence, impacts that could be identified during future maintenance or upgrade of infrastructures will require an amendment to the ESMP.

## 11.2 Impact Identification

Potential impacts were identified in accordance to the key Environmental Social Indicators (ESI)<sup>8</sup> and using literature review, site assessment and public participation process and experience for Red-Dune Consulting (*see Table 2*).

Table 2. Impact identification

Component	Impact	Description	Impact
			Type
		CONSTRUCTION PHASE	
	Loss of	The clearing of land for site preparation and the occupation	Negative
l al	habitat and	of the site itself can result in the direct loss of habitat for	
ysic	Biodiversity	local flora and fauna. This may lead to a reduction in	
Bio-Physical Environment		biodiversity, as species that depend on the specific habitat	
Bic		may be forced to relocate or face potential extinction.	

 $^8$  Guidance Note UNDP Social and Environmental Standards Social and Environmental Assessment and Management July 2022

Component	Impact	Description	Impact
			Type
		Furthermore, the presence of construction activities and	
		increased human activities can inadvertently create	
		opportunities for poaching of high valuable species such as	
		Rhinos.	
	Dust	Land clearing, digging and excavation of trenches,	Negative
	emission	movement of vehicles and heavy machinery on project	
		sites, concrete work, transportation of sand to site and	
		concrete stones, cement mixing may create fugitive dust.	
		Uncoordinated / reckless driving on gravels roads could	
		cause low visibility to other road users.	
		Dust from construction and drilling can not only pose	
		health risks to workers, leading to respiratory issues, but it	
		can also affect nearby communities and vegetation,	
		reducing air quality and the overall environment's health	
	Land	Site preparation activities, such as excavation and the	Negative
	degradation /	movement of heavy machinery, can result in soil	
	Soil erosion	disturbance and degradation. This includes compaction,	
		erosion, and loss of soil fertility. The removal of vegetation	
		during site clearing can also leave the soil vulnerable to	
		erosion, reducing the land's ability to support future	
		vegetation growth and impacting local ecosystems.	
	Noise and	The operation of heavy machinery and drilling equipment	Negative
	vibration	can produce significant noise, which may disturb both	
		wildlife and nearby communities. Prolonged exposure to	
		high noise levels can have detrimental effects on the health	
		of workers and the surrounding population, including	
		hearing loss and increased stress levels. Furthermore, noise	
		pollution can disrupt animal behaviours, particularly in	

Component	Impact	Description	Impact
			Type
		sensitive species, leading to displacement or changes in	
		habitat use.	
	Traffic	The operation of vehicles and machinery, as well as	Negative
	emission	drilling activities, can contribute to air pollution through	
		the emission of exhaust gases of SO <sub>2</sub> , CO <sub>2</sub> , CO, NO <sub>x</sub> and	
		particulates.	
	Waste	Construction produce significant amount of solid waste	Negative
	generation	including, building rubbles, plastic and parts of equipment.	
	Household	The generation of domestic solid waste from workers and	Negative
	waste	operations on-site can lead to pollution if not properly	
		managed. Improper disposal of waste, such as plastics,	
		food scraps, and other materials, can contaminate the local	
		environment and pose a risk to both wildlife and human	
		health.	
	Soil and	The use of heavy vehicles and drilling equipment involves	Negative
	water	the use of oils, grease, and lubricants that, if not properly	
	pollution	managed, can leak into the ground and contaminate	
		groundwater sources.	
	Safety risk	Accidents from collision of construction vehicles, and	Negative
		occupational injuries.	
_	Health risks	Risks of hearing impairment from excessive noise,	Negative
afety		respiratory risks from dust inhalation. New social	
Health and Safety		relationships are often a recipe for spreading of	
h ar		communicable diseases and sexually transmitted diseases	
[ealt		such as HIV/AIDS. Furthermore, alcohol and drug use	
<b>=</b>		could be prevalent during construction and workers are	
		susceptible to vector diseases such as malaria.	

Component	Impact	Description	Impact
			Type
		Furthermore, the bush working environment makes	
		workers to be prone to venomous insect and snake bites	
		which may lead to fatalities. Other health risk include	
		workers exposure to excessive noise and dust and injuries.	
	Hazardous	Heavy vehicles consume significant amounts of oil, and	Negative
	Impact	the handling of hydrocarbons will occur on-site. The area	
		where grease, oils, lubricants, and fuel are managed must	
		be properly designed to prevent soil contamination, which	
		could potentially affect both the soil and underground	
		water	
	Visual	Poor housing keeping on site, disturbance of surrounding	Negative
	impacts	view by the height of the hospital, uncoordinated painting.	
	Employment	Namibia is facing high unemployment, particularly among	Positive
	creation	the youth. However, the project will create employment	
		opportunities during the construction phase and provide	
Social Environment		valuable skills development and knowledge transfer.	
Conn	Increase in	Construction provides an opportunity for local people,	Positive
'nvi	local	especially women to sell their produce (food) to	
ial E	economy	construction workers. The local economy will increase	
Soc		from procurement of construction materials and increased	
		buying power.	
	Heritage and	Digging and excavation have the potential to uncover	Negative
	Archaeologic	archaeological materials. Therefore, raising awareness	
	al Resource	about the possibility of chance finds is necessary to prevent	
		potential damage.	
	OPERATIONAL PHASE		
eti eti	Risk of	Uncontrolled underground water abstraction can lead to	Negative
Water abstracti on	underground	over-extraction, which depletes water resources faster than	
ab	over-	they can be replenished. This over-abstraction can also	

Component	Impact	Description	Impact
			Type
	abstraction	result in the deterioration of water quality, as it may cause	
	water	the intrusion of contaminants such as salts or pollutants	
		into freshwater aquifers. Additionally, excessive	
		extraction can disrupt the natural balance of groundwater	
		systems, affecting ecosystems and potentially leading to	
		land subsidence or other environmental issues. Therefore,	
		it is crucial to implement sustainable water management	
		practices to protect both the quantity and quality of	
		underground water resources.	
es	Theft	Theft of boreholes infrastructures such as pumps and solar	Negative
ctur		panels.	
stru	Destruction	Potential destruction of boreholes and associated	Negative
nfra	of water	infrastructure by elephants.	
ole ii	infrastructure		
Safety of borehole infrastructures	by elephant		
of bo	Corrosion of	The use of poor-quality borehole casing could lead to short	
ety c	borehole	lifespan of the borehole casing	
Safe	metal casing		
use ies	Claiming	The community near the borehole my claim ownership of	Negative
	ownership of	the borehole which could cause conflict in the community	
wat	boreholes by		
Conflict of water buy the communi	nearest		
nflic 7 the	community		
Co	members		

# 11.3 Criterial for impact assessment

The criteria used to assess the impacts and the method for determining their significance are outlined in Table 3 below. This process aligns with international best practices and adheres to the

Environmental Impact Assessment (EIA) Regulations under the Environmental Management Act of 2007 (Government Gazette No. 4878).

The core principle of the impact assessment follows a mitigation hierarchy, which aims to first avoid negative impacts through preventative measures, then minimize those impacts to acceptable levels, and, if neither of these options is feasible, to remedy or compensate for the impact.

Table 3. Criteria for Impact Assessment

Risk Event	Rating		Description of the risk that may lead to an Impact								
Probability	The probabil	ity that an	impact may occur under the following analysis								
	1		Improbable (Low likelihood)								
	2		Low probability								
	3		Probable (Likely to occur)								
	4		Highly Probable (Most likely)								
	5		Definite (Impact will occur irrespective of the applied								
			mitigation measure)								
Confidence	The confider	nce level	of occurrence in the prediction, based on available								
level	knowledge										
	L		Low = limited information								
	M		Medium = moderate information								
	Н		High = sufficient information								
Significance	Severity	Rating	None (Based on the available information, the								
	Negligible	1	potential impact is found to not have a significant								
			impact)								
	Low	2	Low (The presence of the impact's magnitude is								
			expected to be temporal or localized, that may not								
			require alteration to the operation of the project								
	Medium	3	Medium (This impact is probable, limited in scale,								
			expected to be of short term / temporary, can be								

with simple
predictable,
-
ional and in
acts that may
resources,
services. The
d than sever
s significant
and or / the
agnitude and
ic area, large
nature. The
nt and often
nt of human,
ems and or
et could have
re-designed
oplied.)

Risk Event	Rating	Description of the risk that may lead to an Impact
	3	Regional
	4	National
	5	International

#### 11.4 Risk Assessment

The significance of the impact was determined using a risk matrix, as shown in Table 4. A five-by-five matrix was applied, where the severity of the impact was categorized and assigned scores ranging from 1 to 5: Improbable (1), Low (2), Medium (3), High (4), and Severe (5). Similarly, the likelihood of the impact occurring was assigned scores as follows: Improbable (1), Low Likely (2), Probable (3), High Probability (4), and Definite (5). The overall impact rating was then calculated by multiplying the scores for impact severity and likelihood.

**Table 4.** Risk assessment matrix<sup>9</sup>

	5	5	10	15	20	25
	Definite	Low	Medium	High	Severe	Severe
OOC	4	4	8	12	16	20
	High Probability	Low	Medium	High	High	Severe
LIKELIHOOD	3	3	6	9	12	15
	Probable	Low	Medium	Medium	High	High
LIKI	2	2	4	6	8	10
	Low	Low	Low	Medium	Medium	Medium
	1	1	2	3	4	5
	Improbable	Negligible	Low	Low	Low	Low
		1 Negligible	2 Minor	3 Medium	4 High	5 Severe
		]	IMPACT SEV	ERITY / CO	NSEQUENCE	
		Negligible	Low	Medium	High	Severe

\_

<sup>&</sup>lt;sup>9</sup> Risk Management Guideline for the BC Public Sector (Province of British Columbia Risk Management Branch and Government Security Office 2012)

# 11.5 Mitigation Hierarchy

Best practises call for mitigation measures to follow a mitigation hierarchy that favours (i) avoidance of potential adverse impacts, and where avoidance is not possible, then (ii) minimization and reduction; where adverse residual impacts remain, then (iii) mitigation measures need to be applied, and, as a last resort, (iv) measures to offset impacts that cannot be appropriately mitigated (*see Figure 10 below*).

According to EIS regulations, the objectives mitigations are to;

- Find environmental ways of doing thing
- Promote environmental benefits of the project
- Avoid, Minimise or remedy negative impacts and
- Ensure that residual negative impacts are within acceptable levels,

Furthermore, during consideration of the mitigation measure, the following mitigation hierarchy was followed.

- Avoid the negative impact through preventative means,
- Minimise the negative impacts to acceptable low levels and,
- If the above two are not possible, remedy or compensate the impact.

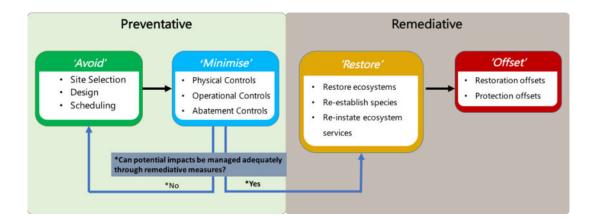


Figure 10. Mitigation Hierarchy Source <sup>10</sup>

11.5.1 Siting Phase: Impact Assessment

Typically, before drilling of a borehole, a site assessment is undertaken to determine the optimum location for drilling a process called siting of a borehole. This process involve analysis of geohydrology property of the area using two main conventional methods; (i) electrical resistivity and (ii) ground conductivity. These method use Frequency Domain Electromagnetic (FDM) operated by a highly trained geohydrologist.

During this phase, there was no evasive activities that could cause harm to the physical environment. To ensure social cohesion with the siting team, the Conservacny was informed about the presence of the siting team in the area. The sited location was pinned for marking purposes.

<sup>&</sup>lt;sup>10</sup> Cross-Sector Biodiversity Initiative (CSBI). (2015). A Cross-sector Guide for Implementing the Mitigation Hierarchy (p.9)

# 11.5.2 Drilling Phase: Impact Assessment

Drilling is the primary and most significant environmental threat during this phase. This stage involves the mobilization and transportation of drilling equipment to the drilling site, the construction of protective fences around boreholes, and the installation of solar panel platforms. If necessary, a campsite may be set up at the drilling site, complete with supporting infrastructure such as ablution facilities, and provisions for managing household and other solid waste.

During this phase, various occupational health and safety risks arise, including injuries from operating machinery, bites from insects (such as mosquitoes), snake bites, and the potential for oil contamination. Table 5 below outlines the assessment of potential impacts and the proposed mitigation measures for the drilling phase.

Table 5. Social Environment: Impact Assessment

Project- Environment Interaction	Description	Mitigation Measures	Impact type	Likelihood occurrence	Severity	Impact Rating	Geographical Extend	Duration	Reversibility (R)	Significance	Confidence Level
Employment /	Possible exclusion of	1. Ensure that all	+ve	2	2	4	nal	ect	n/a	Low	High
Socio-	local communities from	general work is					Regional	of project		Ĺ	
Economic	job opportunities and	reserved for local					, N				
advancement	unfair compensation of	people, unless						Life			
of local	workers. It is not	specialized skills									
	anticipated that a	are required.									

Project- Environment Interaction	Description	Mitigation Measures	Impact type	Likelihood occurrence	Severity	Impact Rating	Geographical Extend	Duration	Reversibility (R)	Significance	Confidence Level
	significant number of	2. Follow fair									
	jobs will be created	compensation									
	during the drilling	practices and									
	phase.	adhere to									
		Namibian Labour									
		Laws.									
		3. Facilitate skill									
		transfer to local									
		workers.									
		4. Use local									
		suppliers for									
		goods and									
		services where									
		possible.									

Project-	Description	Mitigation Measures							8		vel
Environment			ē			ting	cal		ty (I	و	Le
Interaction			typ	ence	>	Ra	ıphi	u <sub>C</sub>	ibili	anc	ence
			Impact type	Likelihood	Severity	Impact Rating	Geographical Extend	Duration	Reversibility (R)	Significance	Confidence Level
			Im	Lii	Ser	Im	Ge	Da	Re	Sig	Co
Health and	Job opportunities can	1. Raise awareness	-ve	2	2	4	cal	ion	n/a	Low	Hig
Safety for	lead to new social	among employees					1 Lo	urati		Ĺ	h
<b>Employees and</b>	relationships that may	about the dangers					s and	ct D			
the General	contribute to the spread	of HIV/AIDS,					cific	Project Duration			
Public	of diseases, particularly	alcohol, and drug					Site Specific and Local	Д			
	pandemics such as	abuse.					Site				
	HIV/AIDS, and	2. Provide condoms									
	substance abuse. Hiring	on-site.									
	unlicensed employees to	3. Develop a									
	operate vehicles and	comprehensive									
	machinery poses safety	safety plan.									
	risks to themselves, co-	4. Ensure all									
	workers, and the public.	employees									
	Additionally, employees	undergo an									
	are exposed to dust,	induction course									
	noise pollution, and	on health and									
	other occupational	safety.									
	health and safety	5. All drivers must									
	hazards	possess									

Project- Environment Interaction	Description	Mitigation Measures	Impact type	Likelihood	Severity	Impact Rating	Geographical Extend	Duration	Reversibility (R)	Significance	Confidence Level
		appropriate driver's licenses.  6. Install adequate safety signage at designated areas.  7. Provide personal protective equipment (PPE) such as overalls, safety boots, safety boots, safety eyewear, gloves, and hard hats.  8. Adhere to the Labour Act, ensuring non- toxic dust exposure levels do not exceed									

Project-	Description	Miti	igation Measures								<b>a</b>		/el
Environment				e				ting	cal		Reversibility (R)	e	Confidence Level
Interaction				Impact type	poor	occurrence	8:	Impact Rating	Geographical Extend	<b>u</b> o	ibili	Significance	ence
				pact	Likelihood	urr	Severity	pact	Geogra <sub>j</sub> Extend	Duration	vers	nific	nfid
				Im	Lil	000	Se	Im	Ge	Da	Re	Sig	Co
			5mg/m³ for										
			respiratory dust										
			and 15mg/m³ for										
			total dust.										
		9.	Ensure noise										
			levels do not										
			exceed 85dB(A)										
			over an 8-hour										
			period.										
		10.	Comply with the										
			Occupational										
			Health and Safety										
			Act of Namibia										
			and other										
			international Abor										
			standards (e.g.,										
			ILO).										
		11.	Ensure first aid										
			kits are available										

Project-	Description	Mitigation Measures				<b>b</b> 0			<b>B</b>		evel
Environment			e	_ a		ting	ical		ity (	e	e Le
Interaction			t tyl	ence	≥.	t Ra	aphi 1	uo	ligi	cand	lenc
			Impact type	Likelihood	Severity	Impact Rating	Geographical Extend	Duration	Reversibility (R)	Significance	Confidence Level
			Im	Lil	Se	Im	Ge	Du	Re	Sig	C <sub>0</sub>
		on-site, including									
		supplies for insect									
		and snake bites.									
		12. Train supervisors									
		in occupational									
		health and first									
		aid.									
		13. Supply clean									
		drinking water,									
		such as portable									
		water tanks.									
		14. Use gendered									
		mobile toilets.									
		15. Provide insect									
		repellent,									
		mosquito nets,									
		and, if necessary,									
		immunization to									
		prevent diseases									

Project- Environment Interaction	Description	Mitigation Measures	Impact type	Likelihood occurrence	Severity	Impact Rating	Geographical Extend	Duration	Reversibility (R)	Significance	Confidence Level
		like malaria.									
Heritage and Archaeology	Potential unearthing of archaeological material or damaging heritage resources	Employee must be trained on the possible find of heritage and	-ve	2	2	4	Site Specific	Construction / Drilling	R	Low	High

Project-	Description	Mitigation Measures							<b>2</b>		vel
Environment			be	<b>=</b> 9		ating	ical		Reversibility (R)	e	Confidence Level
Interaction			ct ty	ihoo	ity	ct Ra	raph ıd	tion	rsibil	fican	idenc
			Impact type	Likelihood	Severity	Impact Rating	Geographical Extend	Duration	Reve	Significance	Confi
		archaeological									
		material in the									
		area;									
		2. Implement a									
		chance find and									
		steps to be taken									
		for heritage and									
		archaeological									
		material finding									
		(Heritage (rock									
		painting and									
		drawings), human									
		remains or									
		artefacts) are									
		unearthed									
		3. Stopping the									
		activity									
		immediately									
		i. Informing the									

Project-	Description	<b>Mitigation Measures</b>								a		'el
Environment			a				ing	le:		Reversibility (R)	a	Confidence Level
Interaction			typ	poo	nce	<b>x</b>	Rat	phic	<b>=</b>	billid	anc	ence
			Impact type	Likelihood	occurrence	Severity	Impact Rating	Geographical Extend	Duration	/ersi	Significance	ıfide
			[m]	Lik	000	Sev	[m]	Ge	Dai	Rev	Sig	Col
		operational										
		manager or										
		supervisor										
		ii. Cordoned of										
		the area with a										
		danger tape and										
		manager to take										
		appropriated										
		pictures.										
		iii.										
		Manager/super										
		visor must report										
		the finding to the										
		following										
		competent										
		authorities,										
		National Heritage										
		Council of										
		Namibia (061 244										

Project- Environment Interaction	Description	Mitigation Measures	Impact type	Likelihood occurrence	Severity	Impact Rating	Geographical Extend	Duration	Reversibility (R)	Significance	Confidence Level
		375) National Museum (+264 61 276800) or the National Forensic Laboratory (+264 61 240461).									

 Table 6. Bio-Physical Environment: Impacts Assessment

Project-	Description	Mitigation Measures							3		vel
Environment			e e			ting	cal		ty (I	ą	e Le
Interaction			Impact type	Likelihood	rity	Impact Rating	Geographical Extend	Duration	Reversibility (R)	Significance	Confidence Level
			Imp	Like	Severity	Imp	Geogra <sub>j</sub> Extend	Dura	Reve	Sign	Con
<b>Biodiversity:</b>	Destruction of	1. Avoid cutting down mature and	-ve	2	2	4	fic	gı	R	Low	High
Flora	trees	protected plant species.					beci	/ Drilling		Т	H
		2. Ensure that access roads are					Site Specific	/ D			
		rehabilitated after use to enhance					\oldsymbol{\sigma}	tion			
		revegetation						Construction			
								Con			
<b>Biodiversity:</b>	Destruction of	1. Do not kill animal, unless such	-ve	2	2	4	nal	gu	R	Low	High
Fauna	animal habitats	animals pose eminent danger to					Regional	/ Drilling		L	Hi
	such as bird nests,	humans					Re	Ι/ τ			
	poaching, stealing	2. There must be ZERO tolerance to						ctioı			
	of livestock	poaching to ensure this, no weapon						Construction			
		and traps are allowed on site;						Сог			
Surface and	Heavy vehicle	1. Fuelling of heavy vehicle on site	-ve	2	2	4	ific	on / ling	R	Low	High
Ground	and machinery	must be well coordinated at					Site Specific	Construction / Drilling		I	
Water	may pollute water	designated places,					Site	onst			
Pollution	sources from	2. Stationary vehicles must be					• •	ŭ			
	leakages of oils,	provided with drip tray to capture									

Project-	Description	Mitigation Measures								<b>a</b>		/el
Environment			e				ting	cal		ty (F	e	Lev
Interaction			t typ	poor	ence -	ý	t Rat	aphie 	uo	ibili	canc	ence
			Impact type	Likelihood	occurrence	Severity	Impact Rating	Geographical Extend	Duration	Reversibility (R)	Significance	Confidence Level
			Im	Lil	ည် ဂ	Se	Im	Ge	Du	Re	Sig	ပိ
	hydraulic fluids,	oil, lubricants and hydraulic fluids										
	lubricants and	leakages										
	greases. These	3. All vehicle and machinery must be										
	pollutants may	well service to avoid leakages										
	reach	4. Provide and train on oil spill										
	underground	emergency response										
	water through	5. Servicing of vehicles and machinery										
	seepage. Further	must take place at designate places										
	surface water may											
	be polluted from											
	surface run off											
	soils that is											
	polluted.											
Waste	General	1. Provide skip bins to collect waste	-ve	2		2	4	fic	ect	R	Low	High
Generation	household	and be disposed of at an approved						Site Specific	Life of project		ĭ	Ή
	pollution and	disposal site						ite S	go e			
	littering such as	2. Provide labelled household waste						Š	Lif			
	used oil cans	drums for household solid waste.										
	drums, metals,	3. Do not burry waste on site										

Project-	Description	Mitigation Measures							<b>a</b>		/el
Environment			e	40		ting	cal		ty (F	e e	- Te
Interaction			Impact type	Likelihood	<b>3</b>	Impact Rating	Geographical Extend	ou	Reversibility (R)	Significance	Confidence Level
			ıpac	kelil	Severity	ıpac	Geogra <sub>l</sub> Extend	Duration	vers	gnifi	րան
			Im	Lil 00	Se	Im	GE	na	Re	Sig	Co
	and household	4. Excavate a small biodegradable									
	solid and liquid	waste site that would be dump									
	waste	filled at the end of the project,									
		alternatively, provide mobile									
		toilets that will be disposed at an									
		approved site and ensure separate									
		ablution facilities for men and									
		women.									
		5. Used oil, grease and lubricants									
		cans must be collected in									
		appropriate drums and disposed of									
		at an approved site									
		6. Maintain good housekeeping on									
		site.									
		7. Do not burry waste on site									
Dust	Land clearing,	1. Movement of heavy vehicles must	-ve	2	2	4	ite	ate	R	Low	High
Pollution	digging,	strictly be restricted on site.					and Site Specific	Immediate		ĭ	田
	excavation of						Local and Site Specific	Imn			
	trenches, drilling,						Lo				

Project-	Description	Mitigation Measures							a a		/el
Environment			e			ting	cal		Reversibility (R)	e	Confidence Level
Interaction			t typ	bood	8	Rat	aphi	u <sub>0</sub>	ibili	canc	ence
			Impact type	Likelihood	Severity	Impact Rating	Geographical Extend	Duration	vers	Significance	nfid
			Im	Lil	Se	Im	Ge	Da	Re	Sig	Co
	movement of	2. Adhere to the minimum speed									
	vehicles and	limit of 30 or 40km/hour when on									
	heavy machinery	farm roads.									
	in site,	3. On site where soil is loosened by									
	transportation of	vehicle movement, apply dust a									
	material to site,	suppression method such as water									
	will create	spraying.									
	fugitive dust	4. During drilling, use water to									
	which could be a	suppress the dust									
	nuisance to the										
	surrounding.										
Land	Uncoordinated	1. Movement of heavy vehicles must	-ve	2	2	4	ific	ject	R	Low	High
degradation	movement of	be coordinated and restricted to be					Site Specific	Life of project			1
and pollution	heavy vehicles	on access roads					Site	fe o			
	and	2. Normally, public gravel roads are						L.			
	uncoordinated	meant for light vehicles drilling									
	land clearing	vehicles have the potential to									
	could lead to soil	damage the access roads. Hence									
	erosion. Possible	proper road maintenance must be									

Project-	Description	Mitigation Measures							a a		/el
Environment			٥			ting	cal		Reversibility (R)	9	Confidence Level
Interaction			Impact type	Likelihood	<b>.</b>	Impact Rating	Geographical Extend	<b>u</b> o	ibilli	Significance	ence
			pact	Likelihood	Severity	pact	Geogra <sub>j</sub> Extend	Duration	vers	nific	nfid
			Im	Lil	Se	Im	Ge	Du	Re	Sig	Co
	spill and leakages	implemented to ensure that the									
	of fuel and	roads are left on good state									
	lubricants from	3. Fuelling of heavy vehicles on site									
	vehicle and	must be well coordinated at									
	machinery could	designated places									
	pollute the soil	4. Servicing of vehicles and									
	and eventually the	machinery must take place at									
	ground water	designated sites									
	resource.	5. Stationary vehicles must be									
		provided with drip tray to capture									
		oil, lubricants and hydraulic fluid									
		leakages									
		6. All vehicles and machinery must									
		be well serviced to avoid leakages									
		7. Provide and train on oil spill									
		emergency response.									

# 11.6 Operational Phase:

The main activity during the operational phase of the borehole is water abstraction. If not properly monitored, this could lead to overabstraction, which may result in the deterioration of water quality and potential negative impacts on vegetation due to a deepening water table. Additionally, the borehole could lead to social conflicts, as surrounding communities might claim ownership of the borehole and prevent other communities from accessing it. Table 7 below outlines the potential impacts during the operational phase and the proposed mitigation measures.

 Table 7. Operational Phase Impact Assessment

Project- Environment Interaction	Description	Mitigation Measures	mpact type	Likelihood occurrence	Severity	Impact Rating	Geographical Extend	Duration	Reversibility (R)	Significance	Confidence Level
Reduced Human Wild- Life Conflict	1	n will ensure wildlife animals stay at wildlife water readily available for wildlife even d	e sanctuar	ту		I			<u> </u>	<b>S</b> 2	
Over abstraction of underground water	High and unsustainable water abstraction which could affect ground water quality	1. Adhere to Permitted Water  Abstraction Limits: Ensure that water abstraction does not exceed the volume specified in the permit. This helps prevent over-extraction,	-ve	2	2	4	Local	Life of project	R	Low	High

Project-	Description	Mi	itigation Measures									<b>a</b>		el
Environment				47				ing	la l			Reversibility (R)	47	Confidence Level
Interaction				type	poc	nce	1	Rat	phic		Ē	bilit	ance	nce
				Impact type	Likelihood	occurrence	erity	Impact Rating	Geographical	Extend	Duration	ersi	Significance	fide
				Imp	Lik	1000	Severity	Imp	Geo	Ext	Dur	Rev	Sign	Сол
			which can lead to the depletion of											
			groundwater resources and the											
			deterioration of water quality.											
		2.	Install Automatic Monitoring											
			Systems: Where feasible, install											
			automated measuring gauges to											
			continuously monitor water											
			abstraction levels, helping to ensure											
			that it stays within permitted limits											
			and enabling prompt corrective											
			action if necessary.											
		3.	Periodic Water Level Monitoring:											
			Regularly monitor the water table											
			levels in the borehole to detect any											
			significant drops that might indicate											
			over-abstraction or other negative											
			impacts. This monitoring should be											
			carried out at consistent intervals to											
			track trends and allow for early											

Project- Environment	Description	Mitigation Measures				Jg	=		(R)		Cevel
Interaction			Impact type	Likelihood	Severity	Impact Rating	Geographical Extend	Duration	Reversibility (R)	Significance	Confidence Level
		intervention if water levels begin to decline.  4. Conduct Periodic Pumping Yield Tests: Carry out regular pumping yield tests to assess the sustainability of the aquifer. These tests measure how much water the aquifer can supply over time without causing long-term depletion. Based on the results, adjustments to water abstraction rates may be necessary to ensure the aquifer's health is	Impa	Likel	Sevel	Impa	Geog	Dura	Reve	Signi	Conf
		maintained.  5. Systematic Water Quality  Assessments: Regularly perform  comprehensive water quality  assessments to detect any changes in  the chemical composition or  contamination of the water. These									

Project-	Description	Mitigation Measures							<b>2</b>		/el
Environment			e e	•		ting	cal		ty (F	ခွ	· Lev
Interaction			t typ	ence	ty	t Ra	aphi I	on	ibili	canc	ence
			Impact type	Likelihood occurrence	Severity	Impact Rating	Geographical Extend	Duration	Reversibility (R)	Significance	Confidence Level
			In	Li oc	Se	In	G Ey	Ď	R	Si	ŭ
		assessments should include tests for									
		common pollutants, such as heavy									
		metals, salts, and bacteria, to ensure									
		that the water remains safe for use									
		and that the quality does not degrade									
		over time due to over-extraction or									
		other factors.									
Risk of water	Elephant are	1. Construct an elephant proof fence	-ve	2	2	4	Local	ect	R	Low	High
infrastructure	notorious known for	around the borehole and its					Lo	proj		Ĭ	Hi
destruction buy	damaging water	supporting infrastructures						Life of project			
elephants	points in search for	2. Build high and thick enough walls						Lif			
	drinking water	that will prevent elephants access to									
		the water tank and solar									
		infrastructures.									
Conflict of	Claim of ownership	Raise awareness of the indented	-ve	2	2	4	cal	ect	R	Low	High
water use buy	of water point /	purpose of the borehole					Local	Life of project		L	Hi
villagers	borehole by some	2. Ensure no one is made to be						e of			
	community members	entitled to owning or have						ŢŢ			

Project- Environment Interaction	Description	Mitigation Measures	Impact type	Likelihood occurrence	Severity	Impact Rating	Geographical Extend	Duration	Reversibility (R)	Significance	Confidence Level
		controlling power on who should									
		use the borehole									
Theft of	There are reported	1. Construct theft proof fence to	-ve	2	2	4	Local	ect	R	ow	High
borehole	cases where	protect solar panels					Lo	project		Γ	H
infrastructures	boreholes							Jo			
	infrastructure such as							Life			
	solar panel are stolen										

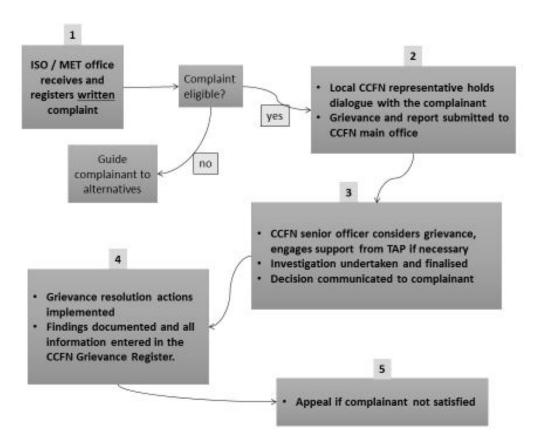
#### 12 GRIEVANCE PROCEDURE

The Grievance Procedures will be a process to facilitate for an easy and smooth process in which stakeholders are able to submit their complaints about the project activities or its consequences i) free of charge ii) without fear of retribution iii) anonymously and iv) user friendly channels.

It is important to emphasise that the Grievance Procedure will not address HWC incidents per se, because those are not caused by the Project. Grievances that are eligible are, for instance, cases where a party is disadvantaged as a result of a Project activity, or as a result of negligence on the part of the Project to follow its procedures thoroughly or fairly. Complainants may be by actual or potential beneficiaries of the Project, or any members of the public.

In generally, the grievances process will follow six (6) Grievance Redress Mechanism (GRM) value chain, namely; i) Receive and log grievance, ii) Acknowledge grievance, iii) Assess and Investigate iv) Grievance Resolution, iiv) Sign-off on grievance and iiiv) Monitor and continuously evaluate the effectiveness of the GRM.

Grievances will be addressed through the channels in the institutional structure presented in **Figure 11** below, in an efficient, effective and consistent manner.



**Figure 11.** GRM flow chart (Source: ESMF\_ Poverty Oriented Support to Community Conservation in Namibia)

The eligibility of the grievance will be assessed at the level where it is first received, at a local MEFT / ISO office (Step 1) and the following actions / steps will be undertaken. The grievance will be discussed with the complainant, with the objective of understanding the problem and giving the complainant a fair hearing (Step 2). The local CCFN representative will submit the grievance, and any notes of their own, to the CCFN head office for higher-level input to the issue (Step 2). The CCFN senior officer will investigate the substance of the grievance (Step 3). If necessary, assistance may be sought from the TAP. Further dialogue with the complainant and others affected by the grievance might also be necessary. The CCFN senior officer will compile a written report on the grievance and communicate the outcome to the complainant. Any actions necessary to resolve the grievance will be implemented by the relevant parties, under the direction of the CCFN (Step 4). Resolution of the grievance will be documented and entered into the Grievance Register. Under normal conditions, a grievance will be resolved, and redress actions commenced within 30 days of receiving a complaint. A complainant is permitted to appeal against the decision by the CCFN, to the CCFN CEO (Step 5). In such a

case the CEO must present the grievance and the CCFN decision to the Board, for reconsideration.

## 13 DECOMMISSIONING AND REHABILITATION PLAN

Decommissioning typically involves reversing the construction process, which includes the removal of all installed equipment and structures. The provision of water to the community is intended to be a long-term intervention, unless an urgent issue arises that requires decommissioning. Any aging or outdated equipment that needs replacement should be handled by qualified Namibian professionals to ensure the continued smooth operation of the system and a reliable, uninterrupted water supply.

## 14 CONCLUSION AND RECOMMENDATIONS

#### 14.1 Conclusion

Based on the available information, the following conclusions have been drawn:

- 1. **Low Groundwater Potential:** The region exhibits relatively low groundwater potential, which suggests that the available water resources are limited and should be carefully managed to ensure sustainability.
- 2. **Risks of Excessive Groundwater Extraction:** Over-extraction of groundwater could lead to significant depletion of water resources, as well as a deterioration in water quality. This could have long-term negative effects on both the environment and the community's access to clean water.

#### 14.2 Recommendations

- 1. **Issuance of the Environmental Clearance Certificate (ECC):** It is recommended that the approving authority proceed with the issuance of the Environmental Clearance Certificate (ECC), subject to the implementation of the proposed mitigation measures to ensure sustainable water management and environmental protection.
- 2. Continued Support for Ongongo Conservancy: The CCFN or the responsible government agency / ministry should support for the Ongongo Conservancy to ensure

regular testing of water quality, obtaining the necessary fitness-for-use approvals, and monitoring the performance of the borehole. These actions will help maintain the sustainability and safety of the water supply, while also ensuring that the community can rely on consistent, safe access to water in the long term.

### 15 ANNEX 1. GROUNDWATER MONITORING PLAN

The purpose of the Groundwater Monitoring Plan is to establish appropriate procedures for monitoring and assessing the response of the aquifer and surrounding environment to the water abstraction process. The plan aims to manage the impacts of groundwater extraction and contaminant loads, while also tracking changes in aquifer response and water quality. Additionally, the monitoring system will serve as an early warning mechanism for detecting potential over-abstraction or other issues that could arise over time.

# 15.1 Groundwater Quality

Regular monitoring of the groundwater quality is essential to detect any changes that may occur because of abstraction, natural processes, or contamination. This monitoring should be conducted on a consistent basis to provide early warnings of any deterioration in water quality, which could affect both human consumption and ecological health. Periodic water quality testing should include key parameters such as pH levels, salinity, total dissolved solids (TDS), and the presence of pollutants (e.g., heavy metals, nitrates, or microbial contamination). This information will allow for prompt corrective action if the water quality begins to degrade, ensuring the continued safety and reliability of the water supply.

#### 15.2 Groundwater Level Measurements

Monitoring the groundwater levels in the aquifer is a critical component of managing water resources, as it helps track the balance between the water available in the aquifer and the rate of abstraction. This is particularly important in regions with low or irregular rainfall, where natural recharge rates are minimal or non-existent. Regular water level measurements will provide valuable data on the changes in groundwater levels over time, enabling operators to identify any signs of over-extraction or potential depletion.

These measurements will be recorded through the water meter readings provided by the Ministry of Agriculture, Water, and Land Reform (MAWLR) to the borehole operator. It is important that baseline hydrological data such as the initial water level before abstraction begins is recorded to track changes over time. Regular monitoring will help ensure that water

levels remain within sustainable limits and will serve as a key reference point for evaluating the overall impact of abstraction activities. This monitoring system will also provide clear evidence of any discrepancies or errors when the MAWLR conducts periodic inspections of the site.

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# 17 APPENDICES

# 17.1 Appendix A. Attendance Register

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		Elias Kasupi	Jalcob Kasupi	sabre Karabaire	Eben (garanus	Edward Kan-Hissel m	Demnis Xumkhant	nuraja Jiraso	Dernadur-U. Hueb	Oteven Kabon	DEING M		Name		STANKIHOLDER CONSULTATION FOR ENVIRONMENTAL SCOPING STUDY AND DEVELOPMENT OF ENVIRONMENTAL MANAGEMENT PLAN(s) FOR THE DRILLING OF WATER POINTS IN COMMUNAL CONSERVANCIES OF KINENE "	MEFT
		3	N	2	3	3	3	3	3	2	2	Gender	Time: 08:00 - 12:00	Place: Sesfontein (	ENVIRONME OF	
	/	Sect order	Jes putin	Sesfontin	Sectionin	Ses Font-in	Serphen	Sesponteri	Sesfonten Cons	Sectiontal	Noc	Organization	10	Place: Sesfontein Conservancy	NMENTAL SCOPING STUDY AND DEVELOPMENT OF ENVIRONMENT.  OF WATER POINTS IN COMMUNAL CONSERVANCIES OF KINENE*	german Cooperation
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# 17.2 Appendix B: Consent letter

09 December 2024

To Whom It May Concern,

Subject: Free, Prior, and Informed Consent for the Drilling of a Water Borehole at OZONDOROHUNGY village, Sessontein Conservancy, Kunene Region

Dear Sir/Madam,

This letter serves as a formal reference to the subject above.

At a community meeting held on Oh December 2024, at he office of village in the Sesfontein Conservancy, the community was fully informed about the proposed support for drilling a water borehole, which is being facilitated by the Community Conservation Fund of Namibia (CCFN).

The community has comprehensively understood the project and its potential benefits. The proposed water borehole drilling does not conflict with our traditional norms or cultural practices. On the contrary, it is expected to enhance the livelihoods of our community and contribute to mitigating the challenges posed by Human-Wildlife Conflict (HWC). We fully support the project and encourage continued consultation during its implementation.

This letter serves as our Free, Prior, and Informed Consent for the project.

Village Headman/Headwoman

Traditional Authority: Kasao na 7/A

Signature: Gabi

Stamp: \_\_\_\_\_Tel:

Yours sincerely,

Tel: 065-275502