



ECC

ENVIRONMENTAL
COMPLIANCE CONSULTANCY



ECC-113-309-REP-84-D

EXPLORATION ACTIVITIES ON EPL 7730

FOR BASE AND RARE METALS, PRECIOUS METALS
KHOMAS REGION

PREPARED FOR

KUISEB COPPER COMPANY (PTY) LTD

DECEMBER 2020

TITLE AND APPROVAL PAGE

| | |
|----------------------------|--|
| Project Name: | Proposed exploration activities on EPL 7730 for base and rare metals, precious metals within the Khomas Region |
| Client Name: | Kuiseb Copper Company (PTY) LTD |
| Ministry Reference: | NA |
| Authors: | Lester Harker and Jessica Bezuidenhout |
| Status of Report: | Submission to the government |
| Date of issue: | December 2020 |
| Review Period | N/A |

Environmental compliance consultancy contact details:

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

Stephan Bezuidenhout

Environmental Consultant & Practitioner
Tel: +264 81 669 7608
Email: stephan@eccenvironmental.com
www.eccenvironmental.com

Jessica Bezuidenhout (Mooney)

Environmental Consultant & Practitioner
Tel: +264 81 669 7608
Email: jessica@eccenvironmental.com
www.eccenvironmental.com

CONFIDENTIALITY

Environmental Compliance Consultancy Notice: This document is confidential. If you are not the intended recipient, you must not disclose or use the information contained in it. If you have received this document in error, please notify us immediately and delete the document and any attachments. Any personal views or opinions expressed by the writer may not necessarily reflect the views or opinions of Environmental Compliance Consultancy or its client.

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

EXECUTIVE SUMMARY

Kuiseb Copper Company (Pty) Ltd (herein referred to as the proponent), intends to undertake exploration activities on Exclusive Prospecting Licence (EPL) 7730 for base and rare metals, and precious metals in the Omaheke region, in an area south west of the Garib-Ost settlement.

The proposed project triggers listed activities in terms of the Environmental Management Act, No. 7 of 2007, therefore an environmental clearance certificate is required. As part of the environmental clearance certificate application, an Environmental Impact Assessment (ESIA) has been undertaken to satisfy the requirements of the Environmental Management Act, No. 7 of 2007. This environmental scoping report and Environmental Management Plan (EMP) is herewith submitted to the competent authority as part of the application for the environmental clearance certificate.

The proposed exploration activities on EPL 7730 may include soil sampling, ground geophysical surveys and airborne electromagnetic surveys (at a coarse line spacing), geological mapping, and exploration drilling in selected target areas. Some limited bush-clearing with exclusions of specially protected plant species will be carried out, for the creation of working areas and access tracks where necessary. All sites of activity will be managed according to stringent environmental requirements that the proponent upholds in its exploration projects. Access agreements will be entered into with all farmers / holders of private ground which may be accessed.

The exploration activities will commence as soon as an environmental clearance certificate has been granted by the Environmental Commissioner. Activities are expected to be conducted over a 3-year period, which is the duration of the exploration licence. However, the period of each phase of the exploration programme may vary and will be refined as geological information becomes available. In the event that exploration is successful, and a commercially viable mineral resource is defined, exploration operations can potentially transcend into mining operations. This phase will involve an application for a Mining Licence and will be assessed in a separate and detailed environmental impact assessment at the appropriate stage.

The largest part of EPL 7730 is covered with the southern Kalahari vegetation type of the Acacia tree-and-shrub savanna sub-biome. Only the furthest northern part is covered with the Highland Shrubland vegetation type. Where the soils are shallower and the landscape hillier, plant growth tends to be shrubby. Eastwards, where the soils become deeper and the landscape flattens, vegetation is characterized by large, open expanses of grass dotted by trees and bushes (Mendelsohn et al., 2002). Most of the woody vegetation vary between 1 and 5m in height.

The impacts of exploration activities with respect to airborne dust are expected to be limited to vehicular traffic or localised to possible RAB drill sites. There will be some release of exhaust fumes from machinery that will impact the immediate vicinity but will be of short duration. Additionally, there will be associated drilling and machinery noise, which could be a disturbance to immediate neighbours, but this will be of short duration.

Through further investigation, it was determined that the effects from noise are considered to be of minor significance, however with additional mitigation, the significance is reduced to low. The additional mitigation measures include:

- Residents shall be provided at least two weeks' notice of drilling operations within 1km of their property;
- Activities will be minimized to allocated daylight working hours;
- Continual engagement with residents shall be undertaken by the proponent to identify any concerns or issues, and appropriate mitigation and management measures shall be further agreed; and
- Noise suppression measures shall be applied if drilling occurs in locations that may affect residents.

Water is a scarce and vital resource in Namibia and, as such, must always be treated with caution. EPL 7730 in its entirety is located in the South-eastern Kalahari Groundwater Basin. Directly south of the Karubeams ridges, the groundwater is of a low to moderate potential. The general direction of the groundwater flow is southeast and the groundwater potential increases from moderate to high in the same direction (Christelis and Struckmeier, 2001).

Farms located within and nearby EPL 7730 obtain water from borehole abstraction. Should the project require the drilling and abstraction of water from an additional borehole, an application must be submitted to the authorities.

This study concluded that a potential environmental risk, which may require further investigation, is related to the cumulative impacts as a result of visual disturbance, nuisance of noise and the loss of sense of place. Receptors are farm owners, neighbours, tourists and visitors. Through further investigation, it was determined that the visual disturbance and loss of the sense of place is considered to be of moderate significance, however with additional mitigation, the significance can be reduced to minor. These additional mitigation measures include:

- Positioning of drill equipment in such a way that it is out of sight from human receptors;
- Barriers or fences shall be used if drilling occurs in locations that may affect residents or livestock;
- Residents need to be informed at least two weeks in advance that drilling operations are within 1km of their property; and
- Continuous engagement with residents to identify any concerns or issues, and appropriate mitigation and management measures agreed upon.

The overall potential impact of this proposed project is not considered significant as it does not widely exceed recognised levels of acceptable change, does not threaten the integrity of the receptors, and it is not material to the decision-making process. The assessment is considered to be comprehensive and sufficient to identify impacts, and it is concluded that no further assessment is required.

TABLE OF CONTENTS

| | | |
|----------|--|-----------|
| 1 | INTRODUCTION | 9 |
| 1.1 | PROJECT OVERVIEW | 9 |
| 1.2 | SCOPE OF WORK..... | 10 |
| 1.3 | THE PROPONENT OF THE PROPOSED PROJECT | 11 |
| 1.4 | ENVIRONMENTAL COMPLIANCE CONSULTANCY | 11 |
| 1.5 | ENVIRONMENTAL LEGAL REQUIREMENTS | 12 |
| 1.6 | TERMINOLOGIES APPLIED IN THIS REPORT | 13 |
| 2 | METHODOLOGY AND APPROACH | 15 |
| 2.1 | PURPOSE AND SCOPE OF THE ASSESSMENT | 15 |
| 2.2 | THE ASSESSMENT PROCESS AND METHODOLOGY | 15 |
| 2.3 | SCREENING OF THE PROJECT | 17 |
| 2.4 | SCOPING OF THE ENVIRONMENTAL ASSESSMENT | 17 |
| 2.5 | BASELINE STUDIES | 18 |
| 2.6 | IMPACT PREDICATION AND EVALUATION | 18 |
| 2.7 | ESIA CONSULTATION..... | 18 |
| 2.8 | INTERESTED AND AFFECTED PARTIES..... | 19 |
| 2.9 | SITE NOTICES | 19 |
| 2.10 | PUBLIC MEETING | 20 |
| 2.11 | NEWSPAPER ADVERTISEMENTS | 20 |
| 2.12 | NON-TECHNICAL SUMMARY | 20 |
| 2.13 | SUMMARY OF ISSUED RAISED | 20 |
| 2.14 | DRAFT ESIA AND EMP | 23 |
| 2.15 | FINAL ESIA AND EMP | 23 |
| 2.16 | AUTHORITY ASSESSMENT AND DECISION MAKING | 23 |
| 2.17 | MONITORING AND AUDITING | 23 |
| 3 | REGULATORY FRAMEWORK | 24 |
| 3.1 | NATIONAL LEGISLATION | 24 |
| 3.2 | NATIONAL REGULATORY REGIME | 28 |
| 3.3 | PERMITS AND LICENSES | 29 |
| 3.3.1 | EXCLUSIVE PROSPECTING LICENSES | 29 |
| 3.4 | WORLD BANK STANDARDS | 30 |
| 4 | PROJECT DESCRIPTION | 31 |
| 4.1 | NEED FOR THE PROJECT | 31 |
| 4.2 | EXPLORATION | 31 |
| 4.3 | EXPLORATION METHODOLOGY | 31 |
| 4.4 | ALTERNATIVES CONSIDERED | 33 |
| 4.5 | NO-GO ALTERNATIVE | 33 |

| | | |
|----------|---|------------|
| 4.6 | EQUIPMENT REQUIREMENTS | 34 |
| 4.7 | POWER SUPPLY | 34 |
| 4.8 | WATER SUPPLY | 34 |
| 4.9 | WORKERS ACCOMMODATION..... | 34 |
| 4.10 | WASTE MANAGEMENT..... | 35 |
| 4.11 | WASTEWATER EFFLUENT | 35 |
| 4.12 | REHABILITATION | 35 |
| 5 | BASELINE / CURRENT BIOPHYSICAL ENVIRONMENT | 36 |
| 5.1 | CLIMATE..... | 36 |
| 5.2 | GEOLOGY..... | 36 |
| 5.3 | TOPOGRAPHY AND SOILS | 38 |
| 5.4 | HYDROLOGY | 39 |
| 5.5 | VEGETATION..... | 40 |
| 5.6 | FAUNA SPECIES | 41 |
| 5.7 | SOCIO-ECONOMIC ENVIRONMENT | 42 |
| 5.7.1 | DEMOGRAPHY | 42 |
| 5.7.2 | GOVERNANCE..... | 42 |
| 5.7.3 | EMPLOYMENT..... | 43 |
| 5.7.4 | ECONOMY..... | 43 |
| 5.7.5 | HEALTH | 43 |
| 5.7.6 | HERITAGE | 44 |
| 6 | IDENTIFICATION AND EVALUATION OF IMPACTS..... | 45 |
| 6.1 | INTRODUCTION | 45 |
| 6.2 | LIMITATIONS, UNCERTAINTIES AND ASSUMPTIONS..... | 45 |
| 7 | IMPACT ASSESSMENT FINDINGS AND PROPOSED MITIGATION MANAGEMENT MEASURES ... | 49 |
| 8 | ENVIRONMENTAL MANAGEMENT PLAN..... | 70 |
| 9 | CONCLUSION..... | 71 |
| | APPENDIX A- EMP..... | 73 |
| | APPENDIX B - NON-TECHNICAL SUMMARY | 74 |
| | APPENDIX C- EVIDENCE OF PUBLIC CONSULTATION..... | 75 |
| | APPENDIX C.2 SITE NOTICE, LETTERS AND REGISTRATION FORM | 77 |
| | APPENDIX C.3..... | 84 |
| | APPENDIX D - ECC CVS | 101 |

LIST OF TABLES

| | |
|---|----|
| TABLE 1 - PROPONENTS DETAILS | 11 |
| TABLE 2 - LEGAL FRAMEWORK | 24 |
| TABLE 3 - NATIONAL POLICIES | 28 |
| TABLE 4 - NATIONAL POLICIES | 29 |
| TABLE 5 - LIST OF ACTIVITIES PLANNED PER PHASE | 31 |
| TABLE 6 - SUMMARY OF LIMITATION, UNCERTAINTIES AND ASSUMPTION OF THE ESIA PROCESS .. | 46 |
| TABLE 7 - IDENTIFICATION AND EVALUATION OF IMPACTS AND MITIGATION MEASURES | 50 |
| TABLE 8 - LOG OF ALL COMMENTS AND RESPONSES GENERATED THROUGHOUT PUBLIC CONSULTATION | 85 |

LIST OF FIGURES

| | |
|---|----|
| FIGURE 1 - EPL 7730 LOCALITY MAP | 9 |
| FIGURE 2 - ZOOMED-IN LOCALITY MAP OF EPL 7730 | 10 |
| FIGURE 3 - ECC ESIA METHOD | 16 |
| FIGURE 4 - FARMS OVERLAPPING EPL 7730..... | 19 |
| FIGURE 5 - LOCATION OF FARM WIESE IN RELATION TO EPL 7730 AND 7732 AND THE AREA OF INTEREST FOR INITIAL AEM SURVEY EXPLORATION | 22 |
| FIGURE 6 - REGIONAL GEOLOGICAL SETTING OF EPL 7730 | 37 |
| FIGURE 7 - ELEVATION PROFILE OF EPL 7730 | 38 |
| FIGURE 8 -REGIONAL SOIL MAP OF EPL 7730..... | 39 |
| FIGURE 9 - REGIONAL HYDROLOGY MAP OF EPL 7730 | 40 |
| FIGURE 10 - REGIONAL VEGETATION MAP OF EPL 7730..... | 41 |
| FIGURE 11 - ECCS IMPACT PREDICTION AND EVALUATION METHODOLOGY | 48 |

LIST OF ACCRONYMS AND ABBREVIATIONS

| ABBREVIATIONS | DESCRIPTION |
|---------------|--|
| AEM | Airborne electromagnetic |
| AIDS | Acquired Immune deficiency Syndrome |
| AMT | Audio Magneto telluric |
| COVID19 | Corona Virus Disease 2019 |
| DEA | Directorate of Environmental Affairs |
| ECC | Environmental Compliance Consultancy |
| EMA | Environmental Management Act |
| EMP | Environmental Management Plan |
| EPL | Exclusive Prospecting License |
| EIA | Environmental Impact Assessment |
| ESIA | Environmental and Social Impact Assessment |
| GSN | Geological Survey of Namibia |
| HIV | Human Immunodeficiency Virus |
| I&AP | Interested & Affected Parties |
| IFC | International Finance Corporation |
| IHME | Institute for Health Metrics and Evaluation |
| JV | Joint Venture |
| MAWLR | Ministry of Agriculture, Water and Land Reform |
| MEFT | Ministry of Environment, Forestry and Tourism |
| MME | Ministry of Mines and Energy |
| MPMRC | Minerals (Prospecting and Mining Rights) Committee |
| NDP5 | National Development Plan five |
| NSA | National Statistics Agency |
| RAB | Rotary Air Blast |
| SOP | Standard Operating Procedure |
| TB | Tuberculosis |

1 INTRODUCTION

1.1 PROJECT OVERVIEW

EPL 7730 is located east of Rehoboth and southwest of Gobabis in the Khomas region. The necessary exploration work on the EPL will be operated by the Kuiseb Copper Company (Pty) Ltd under a Joint Venture (JV) agreement with Rio Tinto Mining and Exploration Ltd (Rio Tinto).

The proposed project aims to undertake mineral exploration activities on said EPL for base and rare metals, precious metals, which are described in detail throughout the report. Please see the locality map Figure 1.

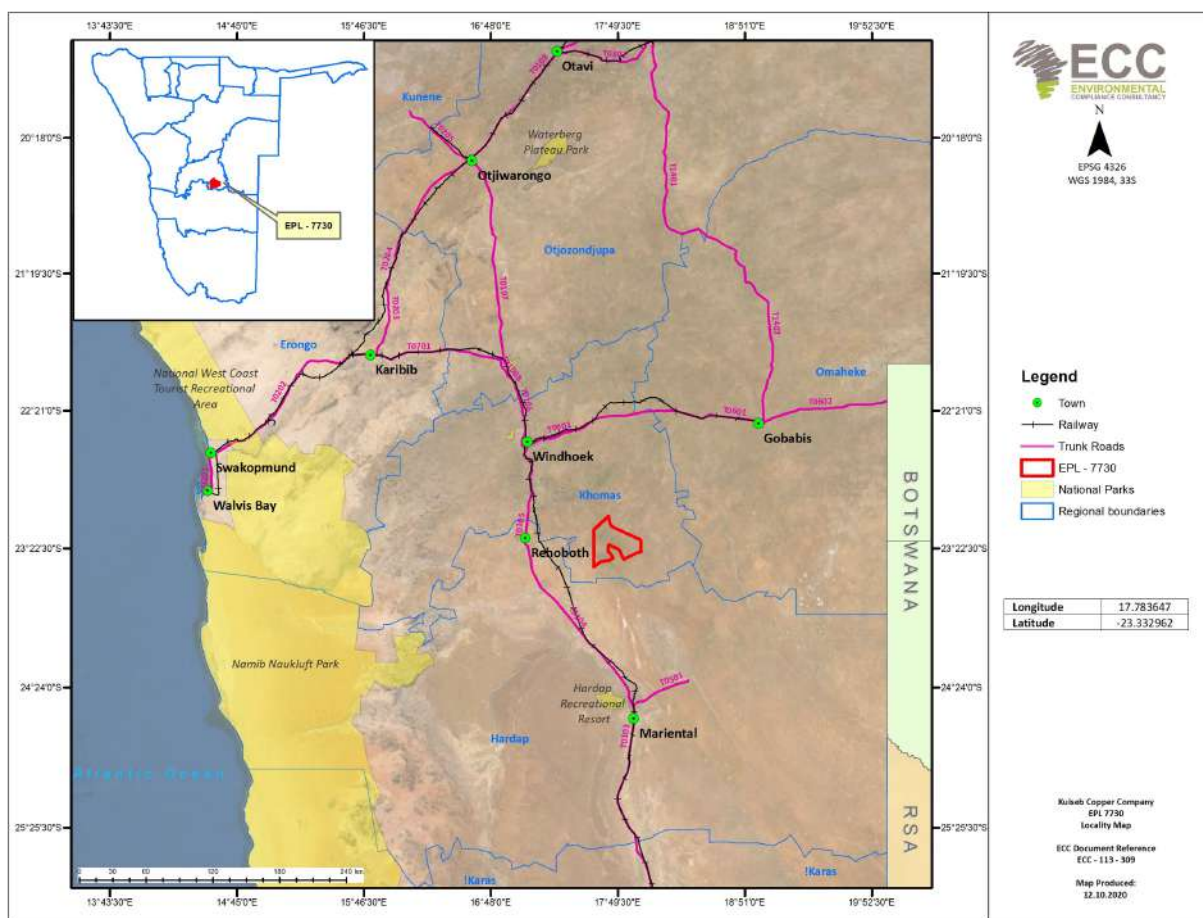


FIGURE 1 - EPL 7730 LOCALITY MAP

The following figure provides more detail about surrounding towns and access routes to EPL 7730.

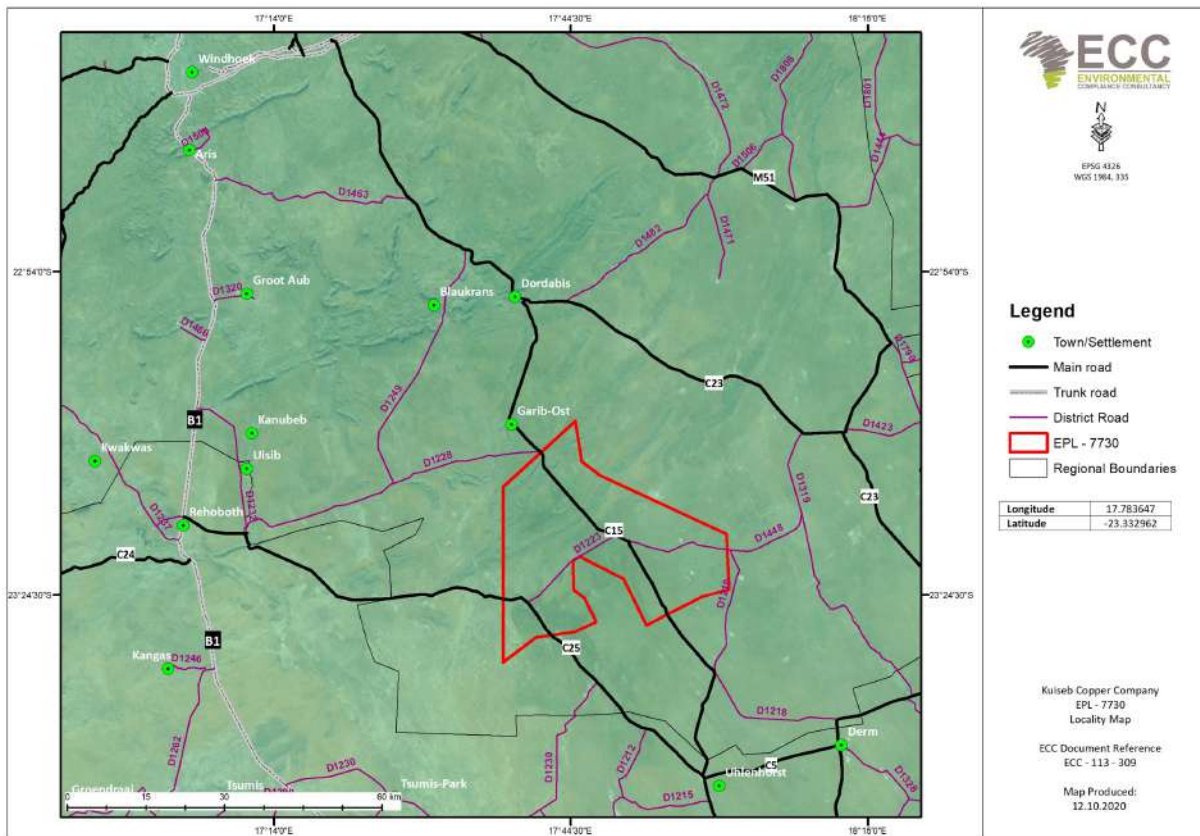


FIGURE 2 - ZOOMED-IN LOCALITY MAP OF EPL 7730

1.2 SCOPE OF WORK

Environmental Compliance Consultancy (ECC) has been engaged by the proponent, to undertake the ESIA and an Environmental Management Plan (EMP) in terms of the Environmental Management Act, 2007 and its regulations.

The purpose of this report is to present the findings of the scoping study for the proposed project. This scoping report has been outlined in terms of the requirements of the Environmental Management Act, No. 7 of 2007 and its regulations, promulgated in 2012 (referred to herein as the EIA Regulations).

An environmental clearance application was submitted to the relevant competent authorities; the Ministry of Mines and Energy (MME) and Ministry of Environment, Forestry and Tourism (MEFT).

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

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

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

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

1.3 THE PROPONENT OF THE PROPOSED PROJECT

The details of the proponent are set out in Table 1 below.

TABLE 1 - PROPONENTS DETAILS

| CONTACT | POSTAL ADDRESS | EMAIL ADDRESS | TELEPHONE |
|---|---------------------------------------|-----------------------|---------------------|
| Kuiseb Copper Company (Pty) Ltd The Director | P O Box 2055 Swakopmund Namibia | branko@iafrica.com.na | +264 81 124 6757 |

Kuiseb Copper Company (Pty) Ltd is a registered Namibian company with sound knowledge and experience in the mineral exploration industry. Kuiseb Copper Company entered into a joint venture agreement with Rio Tinto Mining and Exploration (Pty) Ltd to explore the mineral potential within the 19 EPLs as listed above. Rio Tinto provides financing for the exploration activities and Kuiseb Copper Company manages the geo-technical activities.

1.4 ENVIRONMENTAL COMPLIANCE CONSULTANCY

ECC, a Namibian consultancy (registration number Close Corporation 2013/11401), has prepared this scoping report, impact assessment and EMP on behalf of the proponent. ECC operates exclusively in the environmental, social, health and safety fields for clients across Southern Africa, in both the public and private sectors. ECC is independent of the proponent and has no vested or financial interest in the proposed project, except for fair remuneration for professional services rendered.

All compliance and regulatory requirements regarding this ESIA report should be forwarded by email or posted to the following address:

Environmental Compliance Consultancy

PO BOX 91193 Klein Windhoek, Namibia

Tel: +264 81 669 7608

Email: info@eccenvironmental.com

1.5 ENVIRONMENTAL LEGAL REQUIREMENTS

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

MINING AND QUARRYING ACTIVITIES (WITH RELEVANCE HERE ONLY TO EXPLORATION ACTIVITIES)

- The construction of facilities for any process or activities which requires a license, right or other forms of authorisation, and the renewal of a license, right or other forms of authorisation, in terms of the Minerals (Prospecting and Mining Act), No. 33 of 1992.
 - o The proposed project operates under a licence that permits for the construction of temporal exploration campsites, drill sites and access roads.
 - o Furthermore, this listed activity, infers the provisions of the Minerals Act (Prospecting and Mining) Act 33 of 1992, under different licences as basis upon which certain activities qualify for an ESIA. Part X of the Minerals Act (1992) defines prospecting/exploration activities under the lawful ownership of an exploration license (EPL). An exploration license excludes any mining activities, but includes activities strictly relating to exploration work. Hence the current project strictly focuses on exploration and not mining.
- Other forms of mining or extraction of any natural resources whether regulated by law or not
 - o Soils and rocks will be sampled and explored for within the EPL 7730.
- Resource extraction, manipulation, conservation, and related activities
 - o The proposed project will explore for base and rare metals, as well as precious metals.

WATER RESOURCE DEVELOPMENT

- The abstraction of ground or surface water for industrial or commercial purposes
 - o Due to the drilling of exploration boreholes, the abstraction of groundwater is possible, although it is intended that water will be obtained from existing boreholes in the proposed project area. Any additional borehole drilled for the intension of abstracting water for use on site should be permitted by the authorities in the form of an abstraction permit.

1.6 TERMINOLOGIES APPLIED IN THIS REPORT

This section provides definitions of key terms to enable the reader to form a technical understanding of the type of work associated with exploration programmes.

- **REMOTE SENSING** techniques in mineral exploration enable explorers to evaluate large areas of the earth remotely without having to undertake ground-based exploration operations. Remote sensing may be used to map the geology and structure that potentially localise the ore deposits, or may be used to identify rocks, which have been hydrothermally altered. Remote sensing involves the use of aircraft and satellite-based equipment to obtain the data to record spectral data from the surface of the earth. Remote sensing includes a number of tools and techniques including geographical information systems, radar and sonar. Typically, satellites or a high-flying aircraft are used in the data collection process. It is a useful tool when searching for minerals and can give an indication of where deposits could be located. Remote sensing aids in narrowing down the field survey area and helps to identify target areas that may be considered for more.
- **AIRBORNE GEOPHYSICAL SURVEYS**, using magnetic, radiometric and electromagnetic techniques, are a key aspect in mineral exploration, enabling explorers to probe under cover, mapping geology and structure, including potentially direct identification of mineral deposits. Modern surveys are flown at a low level in a grid pattern, adhering fully to the safety margins prescribed by the Civil Aviation Authority (CAA) of Namibia.
- **GEOLOGICAL MAPPING** of outcrops is used to describe the primary lithology and morphology of rock bodies as well as age relationships between rock units. Mapping is a crucial part of refining subsurface targets, as it provides structural information and can be used to predict the subsurface geology. This will be conducted concurrently with the geochemical sampling.
- **GEOCHEMICAL SAMPLING** (soil and rock sampling) is a non-invasive technique to determine the existence and extent of mineralization and a potential resource. Geochemical data are used to focus on areas of higher mineral potential as the project advances and help to define drill targets. They assist the company to drill more selectively and thereby increase the chances of intersecting mineralised zones during exploration and reduce the overall footprint of exploration and environmental impact in the area. Geochemical surveys will be the first ground exploration method to be undertaken by the proponent in the licence area.
 - o **SAMPLING** - Selecting a fractional but representative part of the soil or rock for analysis.
- **GROUND GEOPHYSICAL SURVEYS**, including Magnetic Induced Polarization (IP) and Electromagnetic (EM) techniques, may be undertaken, as appropriate, to collect data that give an indication of essential rock properties, particularly at depth. They are also used to map the geological structures. IP surveys involve sending electrical currents into the ground, measured via electrodes along linear cutlines up to 3 km long to provide access to electrical cables. Small holes in the ground (0.2m x 0.2m x 0.3m) will be required for IP electrodes every 25 or 50m along a survey line. Copper sulphate solution will be used to improve the conduction of electrodes during the IP survey. The majority of EM techniques are completely non-invasive and operate by sending electromagnetically induced currents into the ground.

EM surveys are conducted along the same linear traverse lines. A variation is the Audio-Magneto Telluric (AMT) technique, in which surveys utilize the same lines and small holes in the ground, but without the application of high voltage electrical currents.

- **RAB DRILLING** (Rotary Air Blast drilling) is an open-hole technique that injects compressed air down the drill pipe and recover the drill-chip fragments, on the outside of the drill stem.
- **DIAMOND DRILLING** entails the use of a diamond-studded drill in order to obtain core samples of two cm or more in diameter. Bio-degradable drill additives will be used during diamond core drilling. Soil, rock and drill core samples will be temporarily stored at the site office. Exploration activities are usually undertaken in phases, with periods of no field activity between them, whilst awaiting analytical results, and the integration and interpretation of data to decide on the next phase of exploration.

2 METHODOLOGY AND APPROACH

2.1 PURPOSE AND SCOPE OF THE ASSESSMENT

The aim of this assessment is to determine which impacts are likely to be significant (the main focus of the assessment); scope the available data and any gaps which need to be filled; determine the spatial and temporal scope; and identify the assessment methodology.

Scoping of the ESIA was undertaken by the ESIA team. The scope of the assessment was determined through undertaking a preliminary assessment of the proposed project against the receiving environment obtained through a desk-top review, available site-specific literature, monitoring data and site reports.

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

2.2 THE ASSESSMENT PROCESS AND METHODOLOGY

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

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

Furthermore, the Namibian Draft Procedures and Guidance for ESIA and EMP (Republic of Namibia, 2008) as well as the international and national best practice; and over 25 years of combined ESIA experience, were also drawn upon in the assessment process.

This impact assessment is a formal process in which the potential effects of the project on the biophysical, social and economic environments are identified, assessed and reported, so that the significance of potential impacts can be taken into account when considering whether to grant approval, consent or support for the proposed project.

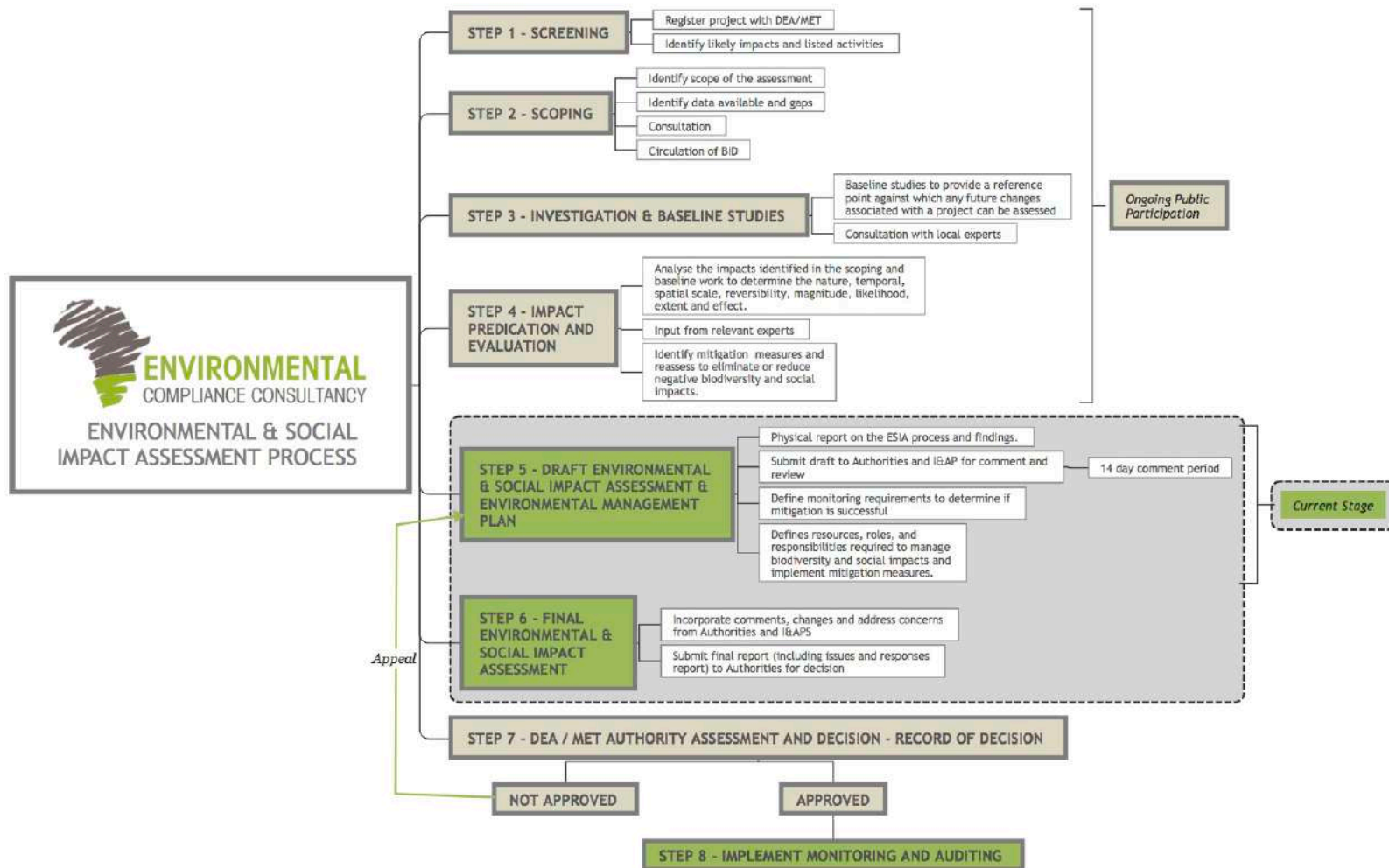


FIGURE 3 - ECC ESIA METHOD

2.3 SCREENING OF THE PROJECT

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

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

2.4 SCOPING OF THE ENVIRONMENTAL ASSESSMENT

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

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

Subsequently, scoping of the ESIA was undertaken by the ESIA team. The scope of the assessment was determined through undertaking a preliminary assessment of the proposed project against the receiving environment obtained through a high-level desktop review. Feedback from consultation with the client and stakeholders also informed this process.

The following environmental and social topics and subtopics were scoped into the assessment, as there was potential for significant impacts to occur:

SOCIO-ECONOMIC ENVIRONMENT

- Limited goods and services procurement within the local economy.

BIOPHYSICAL ENVIRONMENT

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

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

- Heritage: A desktop review of the general EPL area has not revealed any site of interest with a heritage connotation to it. The EMP does however contain a Standard Operating Procedure (SOP) called a “chance-find” procedure to be utilised in the unlikely event of a possible archaeological find.

2.5 BASELINE STUDIES

Baseline studies are undertaken as part of the scoping stage, which involves collecting all pertinent information from the current status of the receiving environment. This provides a baseline against which changes that occur as a result of the proposed project can be measured.

For the proposed project, baseline information was obtained through a desktop study, focussing on environmental receptors that could be affected by the proposed project, verified through site-specific information. The baseline information is covered in Section 5.

A robust baseline is required in order to provide a reference point against which any future changes associated with a project can be assessed, and it allows for suitable mitigation and monitoring actions to be identified.

The existing environment and social baseline for the proposed project were collected through various methods:

- Desktop studies;
- Consultation with stakeholders; and
- Engagement with Interested and Affected Parties (I&APs). See Appendix C.

2.6 IMPACT PREDICATION AND EVALUATION

Impact prediction and evaluation involves predicting the possible changes to the environment as a result of the development/project. The recognized methodology was applied to determine the magnitude of impact and whether or not the impact was considered significant and thus warrant further investigation. The impact prediction and evaluation methodology used is presented in Section 6 of this report. The findings of the assessment are presented in Section 7.

2.7 ESIA CONSULTATION

Public participation and consultation are requirements stipulated in Section 21 of the Environmental Management Act, No. 7 of 2007 and associated regulations for a project that needs an environmental clearance certificate. Consultation is a compulsory and critical component in the ESIA process in achieving transparent decision-making and can provide many benefits.

The objectives of the stakeholder engagement process are to:

- Provide information on the project to I&APs: introduce the overall concept and plan;

- Clarify responsibility and regulating authorities;
- Listen to and understand community issues, concerns and questions;
- Explain the process of the ESIA and timeframes involved; and
- Establish a platform for ongoing consultation.

2.8 INTERESTED AND AFFECTED PARTIES

EPL 7730 overlaps with several farms and 2 District roads, the C25 and the C15, which run from north to south through the EPL (Figure 4). The two roads provide access to the farms that overlap with and border the EPL.

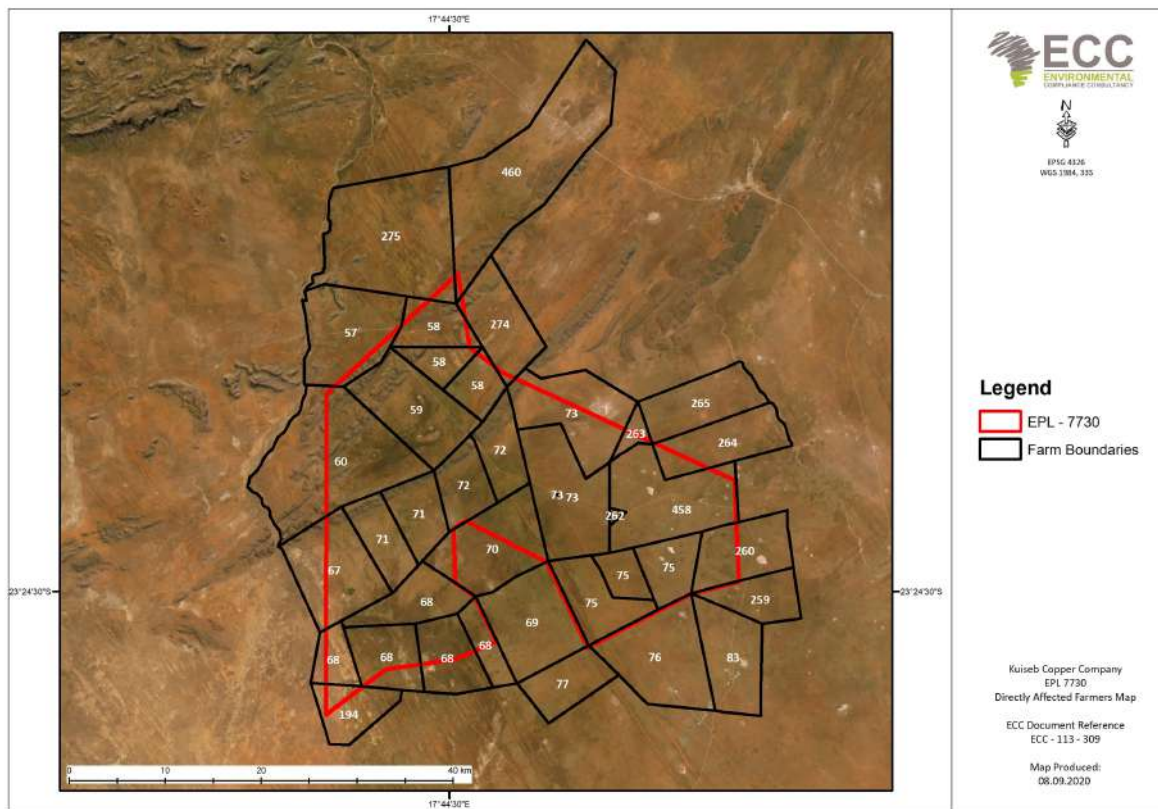


FIGURE 4 - FARMS OVERLAPPING EPL 7730

All owners of the farms that overlap or border EPL 7730 were identified as I&APs, as well as the relevant regional authoritative bodies. Other I&APs will be identified through invitations such as the newspaper advertisements and site notices.

2.9 SITE NOTICES

A site notice ensures neighbouring properties and stakeholders are made aware of a proposed project. A site notice was set up at strategic locations beside the C23 gravel road which provides access to the EPL. A copy of the site notice is illustrated in Appendix C. Another notice was placed in Gobabis at the entrance to the Agra retailer.

2.10 PUBLIC MEETING

In terms of Section 22 of the Environmental Management Act, No. 7 of 2007 and its regulations, for the purpose of registering I&APs, no public meeting was held during the public consultation period, as it was not deemed necessary for this project. Moreover, a meeting with the Namibia Agricultural Union was held on the 22 October 2020 to introduce the project and decide on the best means of communication with the affected farm owners. See appendix C.2 for the record of meeting held.

2.11 NEWSPAPER ADVERTISEMENTS

Notices regarding the proposed project and associated activities were circulated in three newspapers namely the 'Republikein', 'Allgemeine Zeitung' and the 'Sun' on the 21st September and 28th of September 2020. The purpose of this was to commence the consultation process and enable I&APs to register an interest with the project. The adverts can be found in Appendix C.1

2.12 NON-TECHNICAL SUMMARY

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

2.13 SUMMARY OF ISSUES RAISED

The initial public participation phase involved the notifications of the project through media such as the newspaper adverts, direct mail sent to identified I&APs and the display of site notices delivered very few interactive communications from the public. The full log of comments received from this phase are contained in appendix C.3.

The main concerns received from the I&APs during public consultation are summarized below.

- The placement of a site notice was disputed by the I&APs citing ineffective reach.
 - Four additional site notices were also placed in other strategic locations in Gobabis and on the intersection leading to Witvlei and on the district road leading to Leonardville.
- Information on the proponent – Kuiseb Copper company (Pty) Ltd;
- The nature of the exploration activities proposed;
- Water supply for exploration activities;
- Clarity on the impacts of exploration on the biodiversity of the area; and
- Possible impact to bird ringing activities on farm Wiese no. 62.

Further clarification on the concern raised of possible impacts to bird ringing activities on farm Wiese no.62 from exploration work.

- Farm Wiese no.62 does not fall within the surficial area of EPL 7730 or 7732 (Figure 5) or any other EPL belonging to the JV. However, it borders EPL 7732. Moreover, the demarcated area of interest (indicated with a white polygon) for the proponent does

not overlap onto Farm Wiese and no impacts related to habitat destruction are expected to occur on farm Wiese.

Farm Wiese is considered to be the top destination for bird ringing activities in Namibia, having done this successfully for more than 15 years and it is not expected that any exploration activity will affect its continued operations.

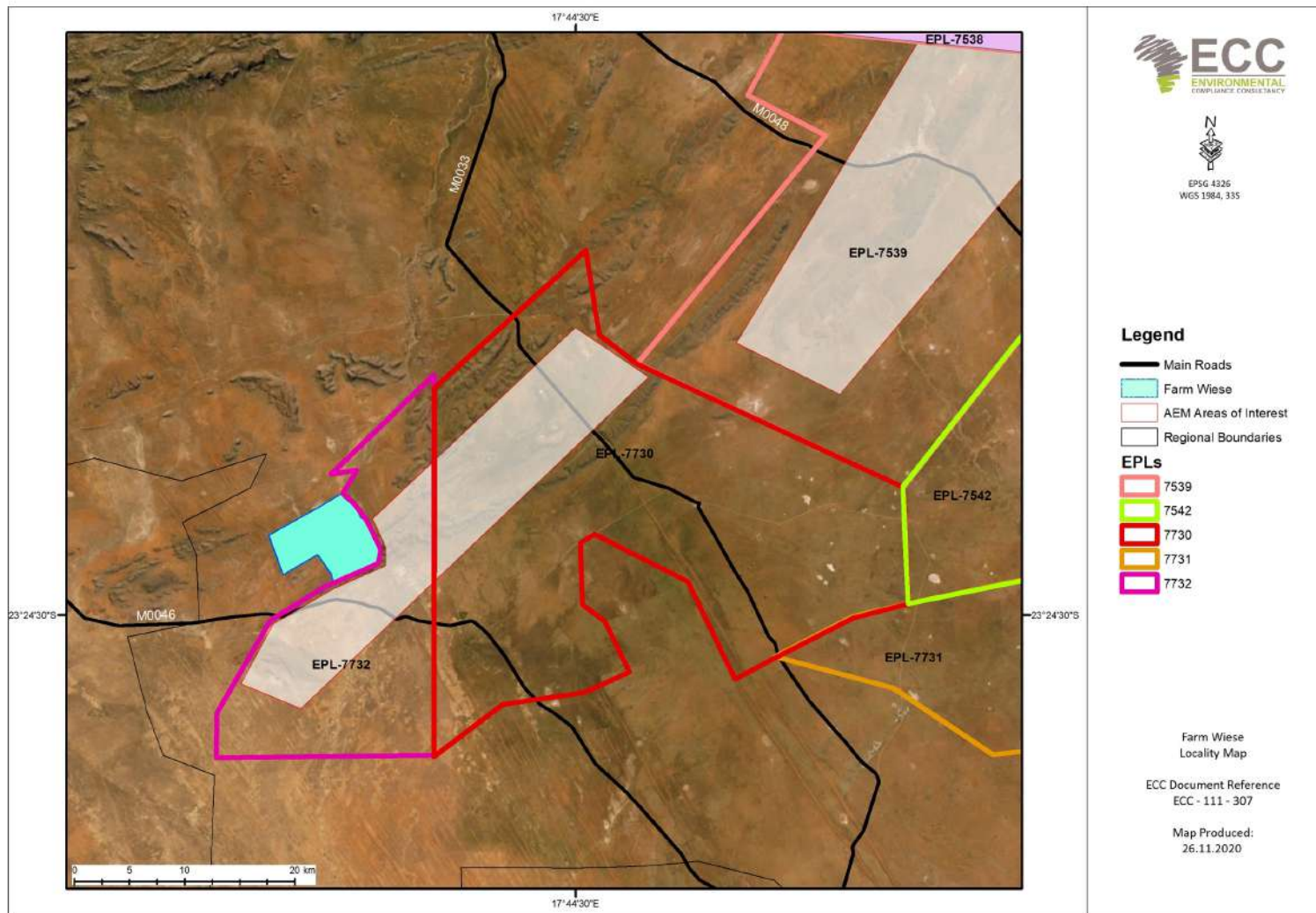


FIGURE 5 - LOCATION OF FARM WIESE IN RELATION TO EPL 7730 AND 7732 AND THE AREA OF INTEREST FOR INITIAL AEM SURVEY EXPLORATION

2.14 DRAFT ESIA AND EMP

This report and EMP for the project's environmental clearance includes an assessment of the biophysical and social environment, which satisfies the requirements of Step 5 (Figure 3).

The ESIA report documents the findings of the assessment process, provides stakeholders with the opportunity to comment and continued consultation and forms part of the environmental clearance application. The EMP provides measures to manage the environmental and social impacts of the proposed project and outlines specific roles and responsibilities to fulfil the plan.

This ESIA report focuses on the significant impacts that may arise from the proposed project as described in Step 4 (Figure 3). These impacts are discussed in Chapter 7.

This ESIA draft report is open to stakeholders and I&APs for consultation for a period of 7 days (11/11/2020 – 18/11/2020), meeting the mandatory requirement of 7 days as set out in the Environmental Management Act, No. 36 of 2002 and its regulations, including the Environmental Impact Assessment Regulations, No. 30 of 2012. The aim of this stage is to ensure all stakeholders and I&APs have the opportunity to provide final comments on the assessment process and findings and register their concerns.

2.15 FINAL ESIA AND EMP

The final ESIA report and associated appendices are available to all stakeholders on the ECC website www.eccenvironmental.com. All I&APs will be informed via email. The ESIA report and appendices will be formally submitted to the Office of the Environmental Commissioner, DEAF as part of the application to for an environmental clearance certificate.

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

2.16 AUTHORITY ASSESSMENT AND DECISION MAKING

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

2.17 MONITORING AND AUDITING

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

3 REGULATORY FRAMEWORK

This chapter outlines the regulatory framework applicable to the proposed project. Table 3 provides a list of applicable legislation and the relevance to the project. An environmental clearance is required for any activity listed as per Government Notice No 29 of 2012 of the EMA.

3.1 NATIONAL LEGISLATION

TABLE 2 - LEGAL FRAMEWORK

| NATIONAL REGULATORY REGIME | SUMMARY | APPLICABILITY TO THE PROJECT |
|---|--|--|
| <p>Constitution of the Republic of Namibia of 1990</p> | <p>The Constitution of the Republic of Namibia, 1990 clearly defines the country’s position in relation to sustainable development and environmental management. The constitution refers that the state shall actively promote and maintain the welfare of the people by adopting policies aimed at the following:</p> <p><i>“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; in particular, the government shall provide measures against the dumping or recycling of foreign nuclear and toxic waste on Namibian territory.”</i></p> | <p>The proponent is committed to engage the local community for the proposed project by providing local jobs as well as, exploring ways of finding rich recourses to that could contribute to the mining sector in Namibia.</p> |
| <p>Minerals (Prospecting and Mining) Act, No. 33 of 1992</p> | <p>Provides for the reconnaissance, prospecting and mining for, and disposal of, and the exercise of control, minerals in Namibia.</p> <p>Section 50 (i) requires <i>“an environmental impact assessment indicating the extent of any pollution of the environment before any prospecting operations or mining operations are being carried out and an estimate of any pollution, if any, likely to be caused by such prospecting operations or mining operations”</i></p> <p>Section 50 sets out that in addition to any term and condition contained in a mineral agreement and any term and condition contained in any mineral licence, it shall be a term and condition of any mineral licence that the holder of such mineral licence shall:</p> <p>Exercise any right granted to him or her in terms</p> | <p>The proposed activity is prospecting for minerals; hence it requires an ESIA to be carried out as it triggers listed activities in the Environmental Management Act and its regulations. This report presents the findings of the ESIA.</p> <p>Works shall not commence until all conditions in the Act are met, which includes an agreement with the landowners and conditions of compensation have been agreed.</p> <p>The project shall be compliant with Section 76. With regards to records, maps, plans and financial statements, information, reports,</p> |

| NATIONAL REGULATORY REGIME | SUMMARY | APPLICABILITY TO THE PROJECT |
|--|---|---|
| | <p>of the provisions of this Act reasonably and in such manner that the rights and interests of the owner of any land to which such licence relates are not adversely affected, except to the extent to which such owner is compensated.</p> <p>Section 52 sets out that the holder of a mineral licence shall not exercise any rights conferred upon such holder by this Act or under any terms and conditions of such mineral licence</p> <p>(a) In, on or under any private land until such time as such holder.</p> <p>(i) Has entered into an agreement in writing with the owner of such land containing terms and conditions relating to the payment of compensation, or the owner of such land has in writing waived any right to such compensation and has submitted a copy of such agreement or waiver to the Commissioner.</p> | <p>and returns submitted.</p> <p>As the proponent will need to access privately owned land the proponent will ensure Sections 50 and 52 are complied with.</p> |
| <p>Environmental Management Act, (No. 7 of 2007) and its regulations, including the Environmental Impact Assessment Regulation, 2007 (No. 30 of 2012)</p> | <p>The Act aims to promote sustainable management of the environment and the use of natural resources by establishing principles for decision-making on matters affecting the environment.</p> <p>It sets the principles of environmental management as well as the functions and powers of the minister. The Act requires certain activities to obtain an environmental clearance certificate prior to project development. The Act states an ESIA may be undertaken and submitted as part of the environmental clearance certificate application.</p> <p>The MEFT is responsible for the protection and management of Namibia's natural environment. The Department of Environmental Affairs under the MEFT is responsible for the administration of the ESIA process.</p> | <p>This environmental scoping report (and EMP) documents the findings of the environmental assessment undertaken for the proposed project, which will form part of the environmental clearance application.</p> <p>The assessment and report have been undertaken in line with the requirements under the Act and associated regulations.</p> |
| <p>Water Act, No. 54 of 1956</p> | <p>Although the Water Resources Management Act, No 11 of 2013 has been billed, but not promulgated, it cannot be enacted as the</p> | <p>The Act stipulates obligations to prevent pollution of water. Should wastewater be discharged, a</p> |

| NATIONAL REGULATORY REGIME | SUMMARY | APPLICABILITY TO THE PROJECT |
|---|--|--|
| | <p>regulations have not been passed – so the Water Act 54 of 1956 is still in effect. This act provides for <i>“the control, conservation and use of water for domestic, agricultural, urban and industrial purposes; to make provision for the control, in certain respect and for the control of certain activities on or in water in certain areas”</i>.</p> <p>The Department of Water Affairs within the Ministry of Agriculture Water and Land Reform (MAWLR) is responsible for the administration of the act.</p> <p>The Minister may issue a permit in terms of the regulations 5 and 9 of the government notice R1278 of 23 July 1971 as promulgated under section 30 (2) of the Water Act no. 54 of 1956, as amended.</p> | <p>permit is required. The EMP sets out measures to avoid polluting the water environment.</p> <p>Measures to minimise potential groundwater and surface water pollution are contained in the EMP.</p> <p>Abstraction of water from boreholes requires an abstraction permit. Abstraction rates need to be measured and reported to the authorities in accordance with the requirements of this legislation. In addition, annual reporting on the environmental impacts of water abstraction is recommendable. Should the project require drilling and abstraction of water from underground sources, an application should be submitted to the authorities.</p> |
| <p>Soil Conservation Act, No. 76 of 1969) and the Soil Conservation Amendment Act, No. 38 of 1971)</p> | <p>Makes provision for the prevention and control of soil erosion and the protection, improvement and the conservation, improvement and manner of use of the soil and vegetation.</p> | <p>This will be taken into consideration during the intention of the works to be undertaken within EPL 7730 site. Measures in the EMP set out methods to avoid soil erosion.</p> |
| <p>The Forestry Act, No. 12 of 2001 as amended by the Forest Amendment Act, No. 13 of 2005</p> | <p>Section 22 requires a permit for the cutting, destruction or removal of vegetation that are classified under rare and or protected species; clearing the vegetation on more than 15 hectares on any piece of land or several pieces of land situated in the same locality which has predominantly woody vegetation; or cut or remove more than 500 cubic metres of forest produce from any piece of land in a period of one year.</p> | <p>The planned project activities will include minimal vegetation clearing to support exploration activities. The necessary permit should be obtained from the MEFT, where the application should satisfy that the cutting and removal of vegetation will not interfere with the conservation of soil, water or forest resources.</p> |
| <p>National</p> | <p>The Act provides provision of the protection and</p> | <p>There might be potential for</p> |

| NATIONAL REGULATORY REGIME | SUMMARY | APPLICABILITY TO THE PROJECT |
|---|---|---|
| <p>Heritage Act, No. 27 of 2004.</p> | <p>conservation of places and objects with heritage significance.</p> <p>Section 55 stipulates that exploration companies must report any archaeological findings to the National Heritage Council after which a heritage permit needs to be issued</p> | <p>heritage objects to be found on site, therefore the stipulations in the Act have been taken into consideration and are incorporated into the EMP.</p> <p>Section 55 compels exploration companies to report any archaeological findings to the National Heritage Council after which a permit needs to be issued before the find can be disturbed. In cases where heritage sites are discovered the 'chance find procedure' will be used</p> |

3.2 NATIONAL REGULATORY REGIME

TABLE 3 - NATIONAL POLICIES

| NATIONAL REGULATORY REGIME | SUMMARY | APPLICABILITY TO THE PROJECT |
|---|---|---|
| Vision 2030 | <p>Vision 2030 sets out the nation’s development programmes and strategies to achieve its national objectives. It sets out eight themes to realise the country’s long-term vision.</p> <p>Vision 2030 states that the overall goal is to improve the quality of life of the Namibian people to a level in line with the developed world.</p> | <p>The planned project shall meet the objectives of Vision 2030 and shall contribute to the overall development of the country through continued employment opportunities.</p> |
| The Fifth National Development Plan (NDP5) | <p>NDP5 is the fifth in the series of seven five-year national development plans that outline the objectives and aspiration of Namibia’s long-term vision as expressed in Vision 2030. NDP5 is structured on the pillars of economic progression, social transformation, environmental sustainability and good governance. Under the social transformation pillar is the goal of improved education.</p> | <p>The planned project supports meeting the objectives of NDP5 by creating opportunities for employment to the nearby community and the Namibian nation.</p> |
| Minerals Policy | <p>The Minerals Policy was adopted in 2002 and sets guiding principles and direction for the development of the Namibian mining sector while communicating the values of the Namibian people. It sets out to achieve several objectives in line with the sustainable development of Namibia’s natural resources. The policy strives to create an enabling environment for local and foreign investments in the mining sector and seeks to maximise the benefits for the Namibian people from the mining sector while encouraging local participation, amongst others.</p> <p>The objectives of the Minerals Policy are in line with the objectives of the Fifth National Development Plan that include reduction of poverty, employment creation and economic empowerment in Namibia.</p> | <p>The objectives of the Minerals Policy are in line with the objectives of the NDP5, i.e. reduction of poverty, employment creation, and economic empowerment in Namibia. The proposed project conforms to the policy, which has been considered through the ESIA process and the production of this report.</p> |
| Labour Act, No. 11 of 2007 | <p>The Labour Act, No. 11 of 2007 (Regulations relating to the Occupational Health & Safety provisions of Employees at Work promulgated in terms of Section 101 of the Labour Act, No. 6 of 1992 - GN156, GG 1617 of 1 August 1997).</p> | <p>The proposed project will comply with stringent health and safety policies, including the compulsory use of specific PPE in designated areas to ensure</p> |

| NATIONAL REGULATORY REGIME | SUMMARY | APPLICABILITY TO THE PROJECT |
|----------------------------|---------|--|
| | | adequate protection against health and safety risks. Proper storage and labelling of hazardous substances are required. The project will ensure employees in charge of and working with hazardous substances need to be aware of the specific hazardous substances in order not to compromise worker and environmental safety. |

3.3 PERMITS AND LICENSES

3.3.1 EXCLUSIVE PROSPECTING LICENSES

EPL 7730 was granted on the 17th of March 2020 and expires on the 16th of March 2023. In terms of the Minerals (Prospecting and Mining) Act, No. 33 of 1992, an EPL may be renewed, however, it may only be extended twice for two-year periods if demonstrable progress is shown. Renewals beyond seven years require special approvals from the Minister (MME, 2018).

Such renewals are subject to a reduction in the size of the EPL. When a company applies for renewal of an EPL, the application must be lodged 90 days prior to the expiry date of the EPL or, with good reason, no later than the expiry date (MET & MME, 2018).

If renewal is applied for, the MME must review the renewal application and make any comments and/or recommendations for consideration by the Minerals (Prospecting and Mining Rights) Committee (MPMRC). Amendments and revisions may be required for the ESIA and EMP. Due consideration must be given when renewing the licence to ascertain whether there is justification to renew the licence. Once an EPL expires and a new EPL is issued, even if it is to the previous holder, the full screening process must be followed with a full ESIA process, before operations may commence (MET & MME, 2018).

The permits and license that may be relevant to the proposed projects are outlined in Table 4.

TABLE 4 - NATIONAL POLICIES

| PERMIT AND LICENCES | RELEVANT AUTHORITY | VALIDITY/DURATION |
|--------------------------------------|--|-------------------|
| WATER ABSTRACTION PERMITS | Ministry of Agriculture, Water and Land Reform | Permit dependent |
| EXCLUSIVE PROSPECTING LICENCE | Ministry of Mines and Energy - Windhoek | 3 years |

| PERMIT AND LICENCES | RELEVANT AUTHORITY | VALIDITY/DURATION |
|------------------------------|---|-----------------------------------|
| NOTICE OF INTENTION TO DRILL | Ministry of Mines and Energy - Windhoek | To be submitted prior to drilling |

3.4 WORLD BANK STANDARDS

The International Finance Corporation (IFC) is a member of the World Bank Group and is the largest global development institution focusing on the private sector in developing countries. Its standards have become a global benchmark for environmental and social performance. They form the basis for the Equator Principles (IFC, 2013), a voluntary environmental and social risk-management framework used by 77 financial institutions worldwide. The Equator Principles are a framework and set of guidelines for evaluating social and environmental risks in project finance activities and apply to all new projects with a total capital cost of US\$10 million or more, no matter what industry sectors, without geographic requirement. The Equator Principles are not applicable to this specific project.

4 PROJECT DESCRIPTION

4.1 NEED FOR THE PROJECT

Namibia is relatively rich in a variety of minerals, and mining has always been a critical sector of the Namibian economy. The sector contributes significantly to the country’s Gross Domestic Product (GDP), through taxation, royalties, fees and equities as well as export revenues. For this reason, exploration activities are encouraged in Namibia and the vision of the Minerals Policy being to “further attract investment and enable the private sector to take the lead in exploration, mining, mineral beneficiation and marketing” supports the development.

The proposed project is in line with this vision and has the potential to create short term and limited employment and to contribute to the national income. In the event that exploration activities are successful, and a resource with commercially viable mineral concentrations can be defined, the exploration operations can potentially transcend into mining operations which can result in multiple socio-economic benefits to the region and the country at large.

4.2 EXPLORATION

It is the process of sampling/collecting fragments of the earth’s layers for testing of each sample’s mineral composition, grade, and spatial dispersion to acquire an informed perspective of the target area’s ore potential. Deeper probing is achieved through geophysical surveys.

4.3 EXPLORATION METHODOLOGY

Exploration work will be entirely conducted by contracted geological, geophysical consultants and in phase three and four onwards drilling consultants and companies. The below schedule of activities (Table 5) is presented for the project.

TABLE 5 - LIST OF ACTIVITIES PLANNED PER PHASE

| PHASE | DATE | ACTIVITY DESCRIPTION |
|--------------------------|--|--|
| Phase 1: 2020 | Field inspection commencement date unknown, desktop work commenced 2019: | Exploration activities involve desktop interpretation of available airborne magnetic and radiometric and electromagnetic data, mapping, analysis satellite imagery and archival data from the GSN. Additionally, preliminary field inspection of onsite geology and possibly initial stream sediment sampling may take place. |
| Phase 2: 2020 | Actual commencement date unknown: | Airborne electromagnetic (AEM) survey (early 2021), as above, and interpretation thereof, coupled with the commencement of soil sampling and geological mapping in specific target localities, to be determined by the above desktop interpretation and AEM results. Limited follow-up ground geophysical surveys may be needed to target drill sites. |
| Phase 3: 2021 | Actual commencement | RAB and/or Aircore drilling in select areas only (locations unknown), depending on results from the first two phases. |

| | | |
|--------------------------|----------------------------------|--|
| | date unknown | |
| Phase 4: 2022 | Actual commencement date unknown | Desktop reviews of all data and subsequent planning activities, which may lead to diamond core drilling, the timing of which will be dependent on progress of the previous phases. Trenching could be part of this phase but is not favoured in the light of emphasis on drilling. |

4.4 ALTERNATIVES CONSIDERED

The proposed project has been subject to a process of design evolution, informed by both consultation and an iterative environmental assessment. In terms of the Environmental Management Act, No. 7 of 2007 and its regulations, alternatives considered should be analysed and presented in the scoping assessment and ESIA report. This requirement ensures that during the design evolution and decision-making process, potential environmental impacts, costs, and technical feasibility have been considered, which leads to the best option(s) being identified.

Exploration activities range from extremely low impact exploration such as coarse line sampling and geophysical surveying to more invasive activities such as trenching or extensive close spaced drilling. The initial exploration results will define the need, if at all, of the more invasive activities.

At this stage of the project greenfield exploration activities for Copper/Silver in the 'Kalahari Copper Belt' will be undertaken, being sufficient for delineating target stratigraphy and potential orebodies. The following activities are ongoing or proposed:

- Desktop analysis of all Open File historical reports and data housed at the MME (ongoing);
- Interpretation of Govt aeromagnetic and radiometric data (ongoing);
- Satellite image interpretation (ongoing);
- Acquisition of low-level airborne electromagnetic data (coarse line spacing yet to be determined, planned);
- Initial field visits to exposed geology both in isolated outcrop and in streams (planned);
- Stream sediment and rock-chip sampling for geochemistry (planned);
- Detailed geochemical sampling and ground geophysical follow-up of specific interpreted target localities (planned);

Once the exploration programme is further defined with new information generated from the initial geophysical surveying and data analysis activities, the following more invasive techniques will be employed at strategic locations informed by new data.

- RAB and/or Aircore drilling as the next stage of the programme, followed by
- Diamond core drilling.

The most suitable options and methods shall be identified to ensure the impacts on the environment and society from these activities are minimised.

4.5 NO-GO ALTERNATIVE

Should exploration activities within EPL 7730 not take place, the anticipated environmental impacts from exploration activities would not occur, however, the social and economic benefits associated with project would also not be materialized.

There would not be an opportunity to define resources within the project area, this would be a missed opportunity for geological mapping and data collection that would add to regional

knowledge of Namibia's mineral wealth and, if found to be viable for mining, could benefit the Namibian economy.

4.6 EQUIPMENT REQUIREMENTS

In the early exploration phase (1st and 2nd year) contractor vehicles and equipment will comprise:

- 4x4 vehicles for personnel and field equipment;
- Field equipment including tents, mobile toilets and ablution facilities, spades, axes, soil sampling equipment such as sieves, sample bags, surveying apparatus;
- Portable or semi-portable geophysical equipment such as magnetometers, electromagnetic or Induced Polarization apparatus (all passive and non-invasive).
- In the ensuing phases (2nd and 3rd year) drilling is envisioned. The equipment requirements would therefore be an RAB/ Aircore Drill rig initially then followed by diamond core drilling. This is anticipated to be a specific provision within tender documentation.

4.7 POWER SUPPLY

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

4.8 WATER SUPPLY

Water demand per day for the exploration project is broken down into two usage categories. These are:

- Water for domestic use within field camps: 5m³ per day; and
- Water for exploration activities (drilling): 20m³.

Water can be sourced from two sources. These are:

SOURCE 1: Supplied by village authorities in the area i.e. Dordabis or Garib-Ost.
Requirement: Completed water supply form submitted to the local authority.

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

4.9 WORKERS ACCOMMODATION

Three to ten possible job opportunities are foreseen during the exploration phase and workers will be sourced from the local towns and surrounding villages. The workers will be deployed at various stages of exploration including soil sampling, geological mapping, geophysical surveys and drilling operations.

It is envisaged that for most of the exploration programme workers will reside in Rehoboth and be transported to and from the site. The proponent will provide transport. However, during the latter part of the prospecting (drilling) workers may be required to stay in field camps away from any farmhouses. It is anticipated that the contractor will be completely self-sufficient with regard to power supply and waste management.

The proponent shall provide suitable living facilities during this period. Furthermore, the camping equipment shall include tents and a portable kitchen.

4.10 WASTE MANAGEMENT

Solid and effluent waste will be generated by the project, whilst exploration work throughout the phases are ongoing. Waste produced on site will include sewerage and solid waste such as packaging. Wastewater (e.g., water with drill additives) used during drilling is recycled, contained within lined sumps and allowed to evaporate after use. The drill-sludge will be disposed of at the Rehoboth municipal waste disposal site. In case of the provision of mobile toilets to be used on site, sewerage generated shall be managed by the toilet contractor. The proponent shall ensure waste transport certificates are provided by the toilet contractor for sewerage waste removed from site. No waste will be discharged into the environment.

4.11 WASTEWATER EFFLUENT

Wastewater will be diverted into a lined sump to evaporate. The remaining solid residue will be buried in the soil if not toxic. Hazardous waste (hydrocarbon contaminated soil, etc.) will be disposed of at a municipal landfill site.

4.12 REHABILITATION

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

5 BASELINE / CURRENT BIOPHYSICAL ENVIRONMENT

This section provides an overview of the existing biophysical environment through the analysis of the baseline data regarding the existing natural and socio-economic environment. Desktop studies on the national database are undertaken to get information of the current status of the receiving environment. This provides a baseline where changes that occur as a result of the proposed project can be measured.

5.1 CLIMATE

EPL 7730 is located in a part of Namibia which receives between 250 and 300 mm of rain per year, with a variation coefficient of 40 - 50%. Rainfall events are limited to the summer months, mainly between January and April, in the form of thunderstorms often associated with heavy downpours. Potential evaporation is between 2,100 and 2,240 mm per year, meaning an average water deficit of between 1,900 and 2,100 mm per year. Relative humidity is low, rarely more than 20% in winter but may reach 85% in summer before or after thunderstorm build-up. Maximum temperatures average around 32 - 34°C, mainly recorded during the afternoons between November and January, while minimum temperatures are around 2 - 4°C and are normally recorded during nights in June and July. Deviations from these averages are common, with the highest temperatures reaching 38 - 40°C and the lowest temperatures below 0°C. Frost occurs during the winter months (Mendelsohn et al., 2002).

Over the interior the Kalahari High dominates during winter and the subsiding air causes cloudless days with stable sinking air. During summer the positions of the high-pressure cells fluctuate more, allowing low pressure cells to develop over the heated interior, which in turn pull moist air from the inter-tropical convergence zone. As the moist air from the north and the east moves south and west, the northeast parts of Namibia receive the most rain – diminishing in a direction to the south and west.

Due to the rhythm of the air pressure systems, the wind patterns over the interior remain fairly predictable. Prevailing wind over EPL 7730 is expected to be from the east and northeast, with occasional airflow from the southeast and southwest. Wind speed is expected to be low with more than two-thirds of the time lower than 2 m/s. The stronger air movements during the afternoons and evenings are the result of the ground being heated more in some places than others. During the winter months wind speed is slightly higher (Mendelsohn, et al., 2002).

5.2 GEOLOGY

Namibia can be divided into two broad geological provinces, one covering the western parts and the other in the east. The western parts consist of a variety of geological formations of different ages and formed under very diverse environmental conditions – some were formed in the depths of primeval oceans, others as a result of the movement of the earth's crust or because of collisions or volcanic eruptions. Most of these formations are exposed in the west as rugged landscapes of mountains, hills, valleys and plains with sparse vegetation, providing an interesting insight into Namibia's geological past. In eastern Namibia, the formations are covered with deposits of a much more recent past (Mendelsohn et al., 2002). The deposits are loose, aeolian of origin, sandy and

unconsolidated. On the surface the east of Namibia appears monotonous and uniform, covered with dense vegetation in the north and decreasing to the south. Most of the knowledge about these sediments has been derived from water abstraction boreholes, and rare outcrops and underlying formations exposed along drainage lines and around isolated pans.

Formations of the Damara Supergroup are between 850 and 600 million years old and cover a large part of the central and western parts of Namibia north of the Tropic of Capricorn. South of the Damara Supergroup is the Namaqua Metamorphic Complex (between 1,400 and 1,050 million years old), the Nama Group (538-547 million years old) and the Karoo Supergroup (300 – 180 million years old). To the east the much younger Kalahari deposits (<70 million years old) dominate, overlaying most of the older formations (Mendelsohn et al., 2002). The predominance of flat-lying Kalahari sediments on the surface means that there is almost no geological variation over this vast area (that also covers the largest part of the central interior of southern Africa) and not many exposures of rocks occur. The EPL falls within the geological bounds of the Kalahari copper belt and therefore is regarded as an area of high interest for copper exploration.

The different geological group formations associated with the EPL are illustrated in Figure 6.

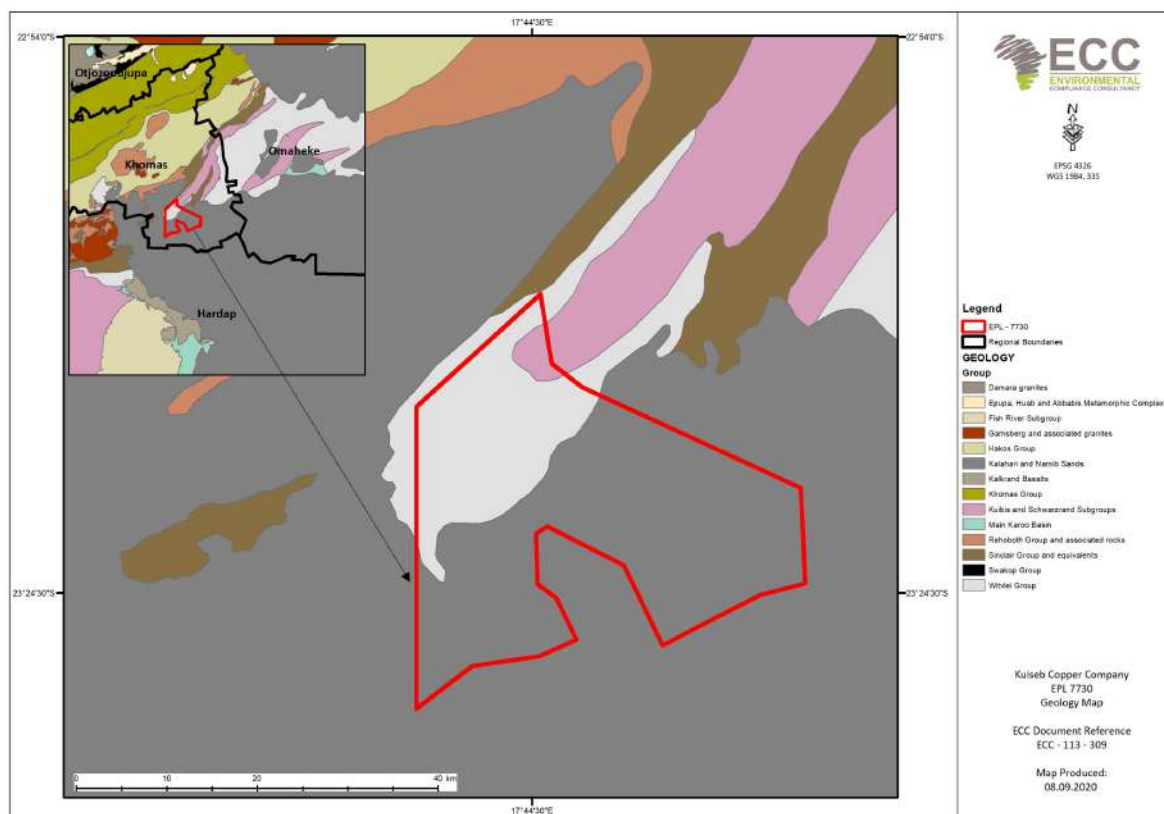


FIGURE 6 - REGIONAL GEOLOGICAL SETTING OF EPL 7730

5.3 TOPOGRAPHY AND SOILS

The topography of the EPL is flat, varying between 1,964 and 1,277m above mean sea level over the greatest part of the EPL. Except for the low Karubeams ridges associated with the Witvlei-formations in the northern part of EPL 7730, the surface geology appears to be uniform, and the entire landscape has a gentle gradient dipping towards the south and east (Figure 7). The general landscape to the south and east of the EPL is flatter, as the Kalahari landscape dominates. Linear dunes become also more prominent towards the southwest, generally oriented in a NW-SE direction. These dunes are permanent, fossil features and do not migrate like dunes of the Namib Desert. The dunes are also stabilized by permanent vegetation.

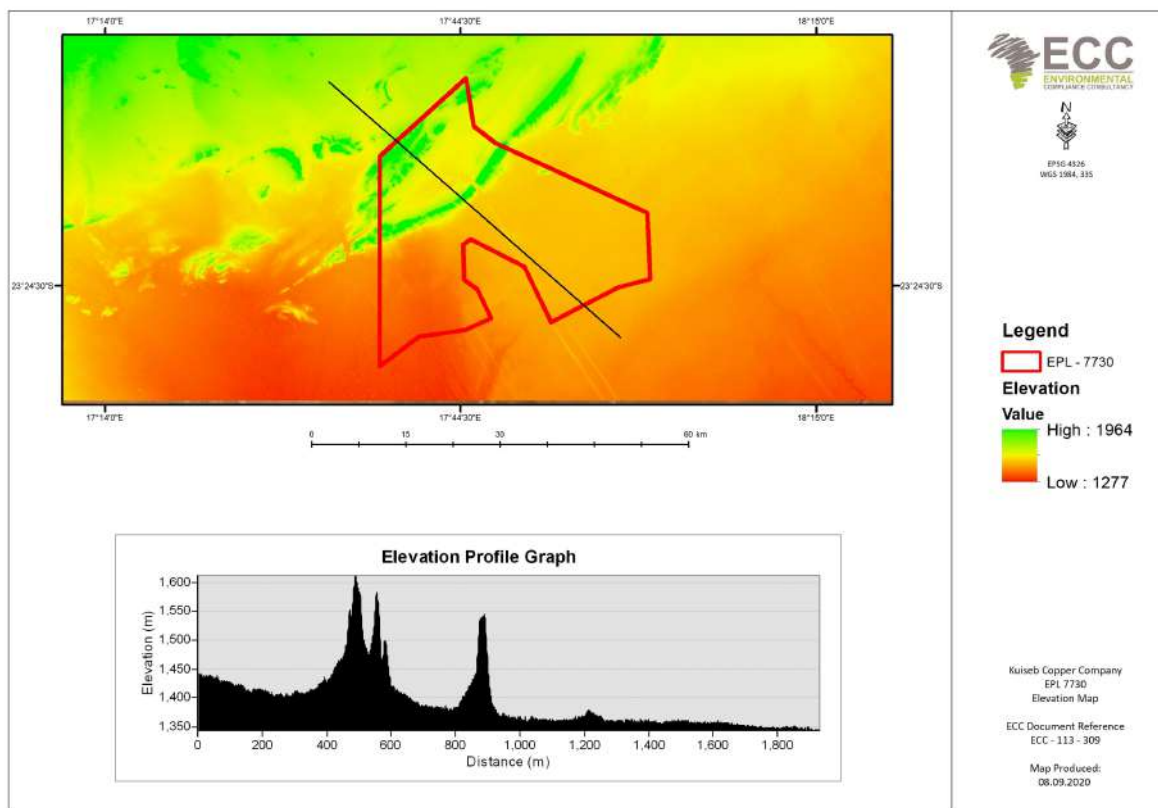


FIGURE 7 - ELEVATION PROFILE OF EPL 7730

The northern parts of EPL 7730 are covered by rocky outcrops and eutric regosols (Figure 8). These soils are medium to fine-textured, typically associated with weathered landscapes. Although reasonably fertile, these soils form thin layers (not exceeding 50 cm) lying directly above the rock surfaces from which they originated. Regosols are susceptible to water erosion, especially where there is any degree of slope (Mendelsohn, et al., 2002).

Ferralic arenosols dominate the Kalahari landscape and covers the furthest western parts of the EPL (Figure 8). These soils derived from wind-blown (aeolian) processes and usually extend to depths of several metres. Arenosols drain rapidly, due to a sand component of more than 70%. The high contents of combined oxides of iron aluminium (sesquioxides) give arenosols its typical reddish colour, and a fertility based on these minerals. However, due to its high porosity, the lack of organic matter and its inability to retain nutrients the cultivation potential of arenosols are limited. In the

southwest corner of the EPL the arenosols are sorted as finer material on the dunes and coarser material on the areas between the dunes.

The largest part of EPL 7730 is covered by petric calcisols. Calcisols are associated with depressions and low-lying flat areas and typically contain accumulations of calcium carbonate, in most cases cemented as calcrete and visible on the surface as white blocks or forming a solid subsurface layer that remains hard even when wet. These soils derived from weathered calcrete and are potentially fertile but normally not deep and may lack some micro-elements because of the high calcium content

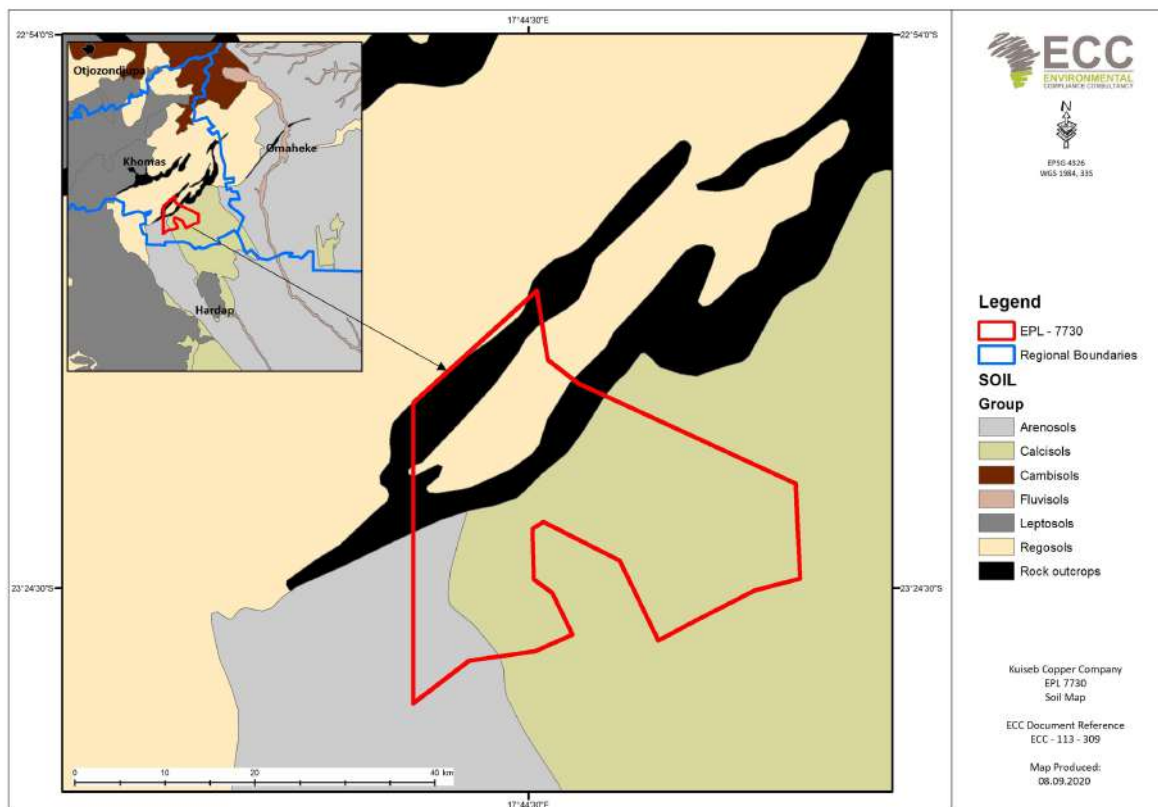


FIGURE 8 -REGIONAL SOIL MAP OF EPL 7730

5.4 HYDROLOGY

Surface water flow is in a southern direction, following the general landscape gradient. The EPL is located between the basins of the Skaap River in the west and the Olifants River in the east. Both rivers originate in the eastern parts of the Khomas Hochland in central Namibia. The Skaap River is ephemeral, i.e., it only contains water for brief periods shortly after sufficient run-off is received in its headwaters as a result of downpours. The river is also endorheic, i.e., it ends on the interior and not into an ocean or into another river system. Runoff from the river dissipates in an area just south of the Tropic of Capricorn between Tsumis and Uhenhorst, southwest of the EPL. The Olifants River is a fossil drainage line and rarely contains water. The dry valley of the Olifants River confluent with the Auob River near the border between Namibia and Botswana in the southeast of the country.

EPL 7730 in its entirety is located in the South-eastern Kalahari Groundwater Basin (Figure 9). Directly south of the Karubeams ridges, the groundwater is of a low to moderate potential. The general direction of the groundwater flow is southeast and the groundwater potential increases from moderate to high in the same direction (Christelis and Struckmeier, 2001).

Farms located within and nearby EPL 7730 obtain water from borehole abstraction. Recorded boreholes of relevance to EPL 7730 are indicated in Figure 8. Should the project require the drilling and abstraction of water from an additional borehole, an application must be submitted to the authorities.

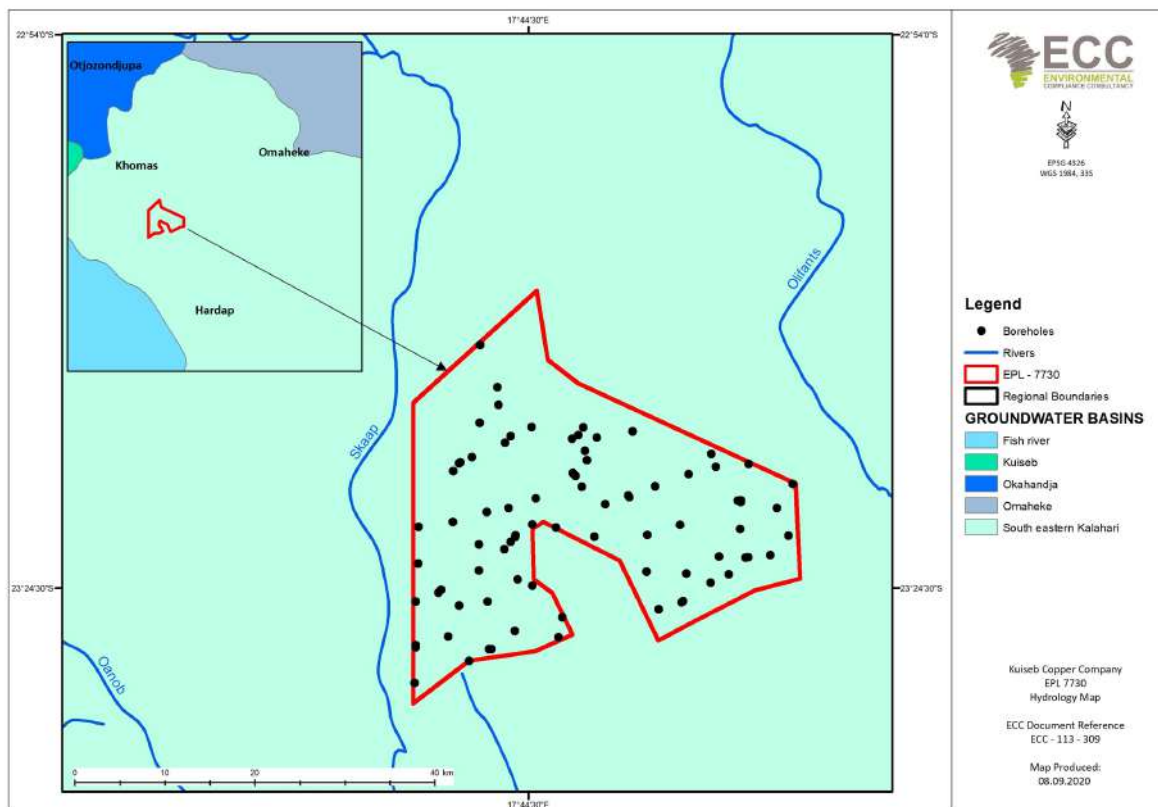


FIGURE 9 - REGIONAL HYDROLOGY MAP OF EPL 7730

5.5 VEGETATION

The largest part of EPL 7730 is covered with the southern Kalahari vegetation type of the Acacia three-and-shrub savanna sub-biome. Only the furthest northern part is covered with the Highland Shrubland vegetation type (Figure 10). Where the soils are shallower and the landscape hillier, plant growth tends to be shrubby. Southwards, where the soils become deeper and the landscape flattens, vegetation is characterized by large, open expanses of grass dotted by trees and bushes (Mendelsohn et al., 2002). Most of the woody vegetation vary between 1 and 5m in height.

The most important environmental variable affecting the vegetation in this part of the country is rain and to a lesser extent frost, but micro-habitat conditions and rangeland management practices determine bush density and grass composition. Grazing resources are made up of a wide variety of grass species, which vary widely in palatability and abundance. Bush encroachment is noticeable, mainly on farmland exposed to continuous periods of selective grazing by livestock. Moreover, the

densification of bush has led to a decreased carrying capacity on some farms in the area where EPL 7730 is located.

Plant diversity is estimated between 50 and 99 species and plant endemism is low, not exceeding five species (Mendelsohn et al., 2002). Local differentiation as a result of topographical variance and availability of water is possible though. Vegetation on the Kalahari dunes and on the sandy plains between dunes differ markedly. On rocky, elevated areas such as the Karubeams ridges, diversity increases.

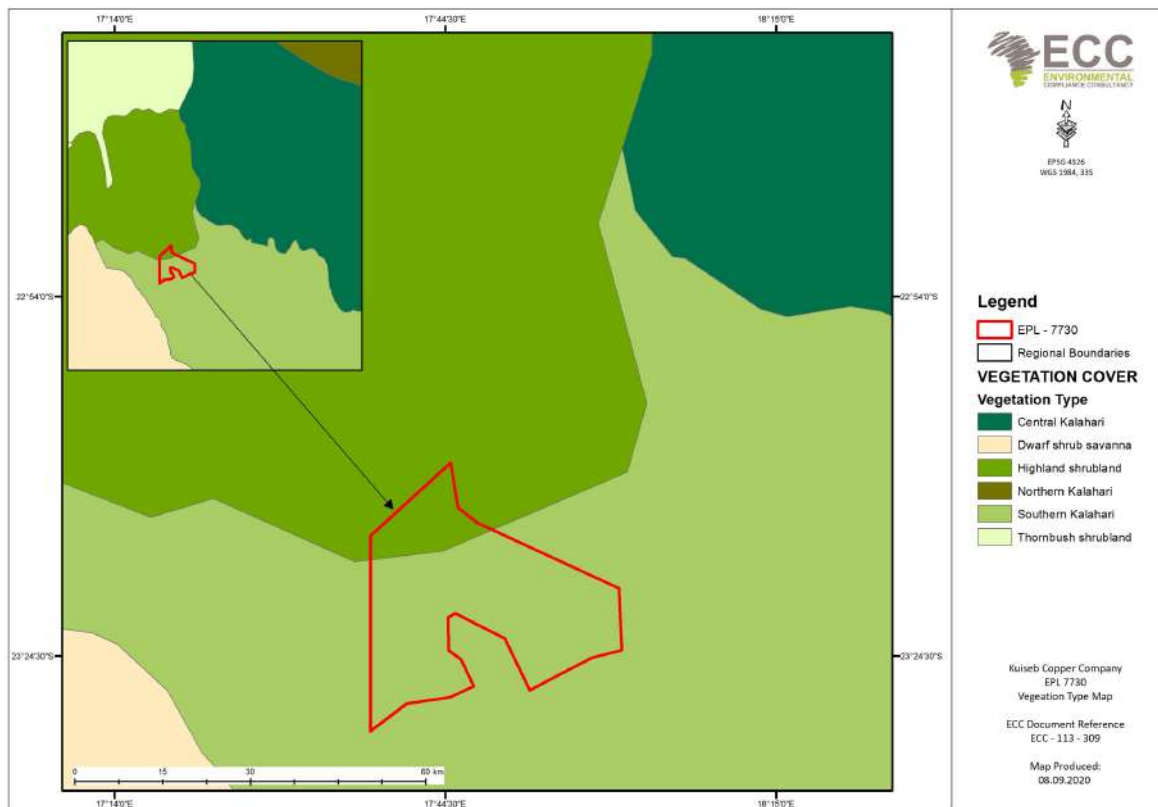


FIGURE 10 - REGIONAL VEGETATION MAP OF EPL 7730

5.6 FAUNA SPECIES

Overall terrestrial biodiversity where EPL 7730 is located, ranges from medium to low. As endemism trends in Namibia show a clear decline to the east, the number of endemic fauna species possible in EPL 7730 is expected to be low. The number of mammal species ranges between 61 and 75, the number of bird species is between 141 and 170. Furthermore can 61 – 70 reptile species, 8 – 11 frog species and 14 – 15 scorpion species be expected (Mendelsohn et al., 2002). On a local scale it is expected that diversity increases with the increase in habitats, which is closely coupled to shelter, food and water availability and migration routes. Elevation and water availability play a prominent role in this regard and is directly related to the increase in terrestrial diversity towards the northwest.

5.7 SOCIO-ECONOMIC ENVIRONMENT

EPL 7730 is located within the Khomas Region. The Khomas Region is the central region of Namibia and is named after the Khomas Hochland, the prominent highland that surrounds Namibia's capital. In the west and northwest, the region is bordered by the Erongo Region, by the Otjozondjupa Region to the northeast, the Omaheke Region to the east and the Hardap Region to the south. Although the Khomas Region only occupies 4.5% of the land area of Namibia, it accommodates the largest percentage (18%) of the national population total in 2016 (NSA, 2017).

5.7.1 DEMOGRAPHY

Namibia is one of the least densely populated countries in the world (2.8 person per km²). Vast areas of Namibia are without people, in contrast to some fairly dense concentrations, such as the central-north and along the Kavango River.

Population density in the Khomas Region is 4.2 times higher (12 persons per km²) than the national figure. The projected total population for the Khomas region was 415,780 in 2016. A total of 95% of all these people lived in an urban place in 2016, most of them in Windhoek. Oshiwambo is the most spoken language (41% of all households) and the average household size in the Khomas Region comprises 3.5 persons. The literacy rate is 97% for people older than 15. Living in an urban environment implies better living conditions – 100% of all households have access to safe water, 25% have no toilet facility, 64% have electricity for lighting and 7% of the population depend on open fires to prepare food (NSA, 2017).

The urban population pyramid for Namibia shows a very clear dominance of the age group 20 – 35 as well as for infants (0 – 4 years of age). As the majority of people in the Khomas region are living in an urban area, the dominance of Windhoek is further apparent – the population of the Khomas region is young, most of them within the child-bearing age range. The urban population pyramid for Namibia contrasts sharply with the one for rural population. The base of the pyramid reflects people younger than 25 and forms the majority of the total population – meaning that most people are young Namibians (NSA, 2017).

5.7.2 GOVERNANCE

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

Windhoek is the national capital and also the capital of the Khomas Region. As the country's capital Windhoek hosts many of the national head offices as well as the head offices of the Khomas regional council. Windhoek is governed by a local authority in the form of a city council. The dominance of Windhoek as a place of residence in the Khomas Region is apparent – except for the capital all other urban places in the Khomas region are classified as settlements – the lowest order of governed populated places in Namibia. Places such as Baumgartsbrunn, Groot Aub, Seeis and Dordabis are managed directly by the central authority, the Ministry of Urban and Rural Development.

5.7.3 EMPLOYMENT

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

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

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

5.7.4 ECONOMY

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

5.7.5 HEALTH

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

HIV/AIDS remains the leading cause of death and premature mortality for all ages, killing up to half of all males and females aged 40 - 44 years in 2013 (IHME, 2016).

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

Over the period 2000 – 2013 significant rises were observed for stroke, ischemic heart diseases, diabetes and depressive disorders, but HIV/AIDS remained the top cause of premature mortality. Over the same period significant decreases were observed for diarrheal diseases, neonatal conditions and malaria. Risk factors are key drivers of premature mortality, and social ills were identified as the leading factor for death – particularly unsafe sex and alcohol and drug abuse. TB and malaria are compounded by the AIDS epidemic, and the risk of contracting malaria and TB is 15% greater if a person is also infected with HIV, with a risk of 50% higher to die as a result (IHME, 2016).

The Khomas region has 33 facilities which provide basic health care services which caters for outpatient care for sick children and adult services for STI's, temporary methods of family planning, etc. (ICF, Macro, 2011).

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

5.7.6 HERITAGE

In Namibia several mountains are closely coupled to heritage values, and it is possible that this applies to some of the higher elevations in EPL 7730 as well. Drainage lines were also important routes for early inhabitants, and it could be expected that some heritage assets along the Black Nossob could be found. In cases where heritage sites are discovered the chance find procedure will be used.

6 IDENTIFICATION AND EVALUATION OF IMPACTS

The key stage of the ESIA process is the impact prediction and evaluation stage. This stage is the process of bringing together project characteristics with the baseline environmental characteristics and ensuring all potentially significant environmental and social impacts are identified and assessed. Impact prediction and evaluation involve envisaging the possible changes to the environment as a result of the proposed project. The recognized methodology (figure 11) was applied to determine the magnitude of impact and whether or not the impact was considered significant and thus warrant further investigation. The assessment considers all stages of the project's life cycle that is scoped into the assessment and is presented in this report. It is an iterative process that commences at project inception and runs through to the final design and project implementation (construction and operations). The impact prediction and evaluation stages were undertaken in September 2020 and the findings of the assessment are presented in this document.

6.1 INTRODUCTION

Chapter 2 provides an overview of the approach used in this ESIA process and details each of the steps undertaken to date. Prediction and evaluation of impacts is a key step in the ESIA process. This chapter outlines the methods followed to identify and evaluate the impacts arising from the proposed project. The findings of the assessment are presented in this chapter.

This chapter provides the following:

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

6.2 LIMITATIONS, UNCERTAINTIES AND ASSUMPTIONS

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

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

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

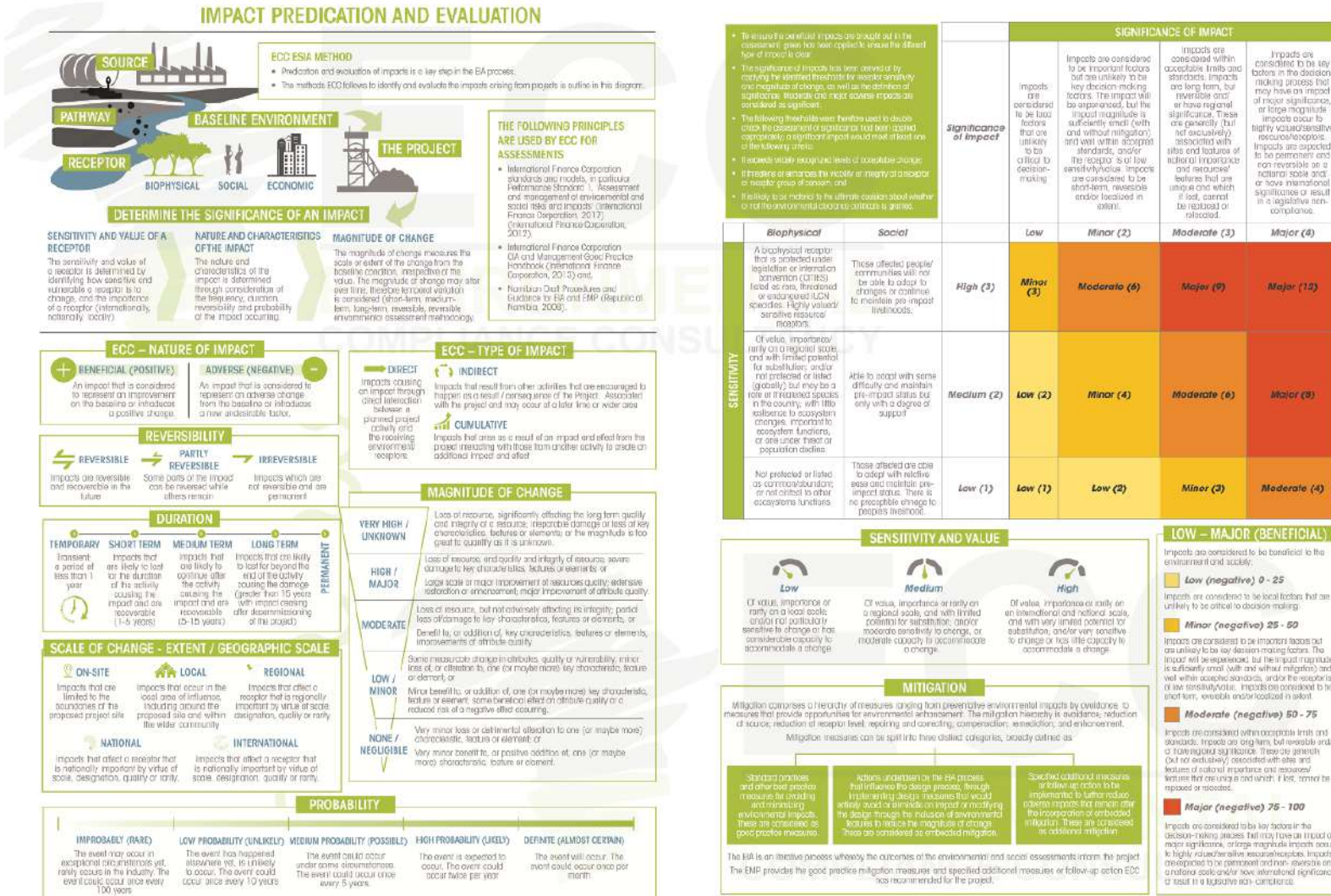
Where uncertainties exist, a cautious approach has been applied, allowing the worst-case scenario for potential impacts to be identified. Where limitation and uncertainties exist, assumptions have

been made and applied during the assessment process. These have been clearly described in the baseline section.

TABLE 6 - SUMMARY OF LIMITATION, UNCERTAINTIES AND ASSUMPTION OF THE ESIA PROCESS

| LIMITATION / UNCERTAINTY | ASSUMPTION |
|---|---|
| Program of activities | <p>As per the EPL award, work will take place over an initial three-year period to establish potential resources of interest. A detailed timeline of the activities is not available at this point in time; activities will be modified depending on work results.</p> <p>If commercially viable concentrations can be defined by preliminary drilling, a next phase of advanced resource drilling operations is possible.</p> <p>Phase 1 – 25 October 2019, on EPL award: Exploration activities involved desktop interpretation of, and mapping from, available airborne magnetic, radiometric and electromagnetic data, analysis of satellite imagery and archival data from the GSN.</p> <p>Phase 2 – January 2021: Airborne electromagnetic (AEM) survey, and interpretation of these data, coupled with the commencement of soil sampling and geological mapping in specific target localities, to be determined by the above desktop interpretation.</p> <p>Phase 3 – Mid 2021: RAB and/or Aircore drilling in select areas only (locations unknown), depending on results from the first two phases.</p> <p>Phase 4 – Mid 2021 and 2022: Desktop reviews of all data and subsequent planning activities, which may lead to diamond core drilling, the timing of which will be dependent on progress of the previous phases. Trenching could be part of this phase.</p> <p>It is assumed that exploration activities are limited to these stipulated undertakings.</p> |
| Number of workers and area they will come from | <p>It is planned that a full-time team will comprise up to 10 staff members and contract workers. The numbers of contractors are expected to include the following teams: field sampling and mapping; ground geophysics; possible trenching; and preliminary drilling. Moreover, staff will be sourced from the local authority areas such as Rehoboth, Dordabis or Garib-Ost.</p> |
| Water supply | <p>Water will only be required for field camps once the drilling programme commences.</p> <p>It is estimated that the water demand for domestic use would be 5,000 litres or less per day and for initial drilling purposes approximately 20,000 litres or less per day is needed. Agreements with farm owners to abstract water from privately owned boreholes will have to be reached between the proponent and the farm owners. The exact volume of water needed for advanced drilling campaigns are uncertain at this point in time.</p> <p>Water is anticipated to be obtained from and transported to site, using a mobile water-bowser, from either a local farm or from a local authority. This is subject to permission granted by relevant farm owners or a permit from the local authority. If new boreholes are to be created for water supply purposes for the advanced exploration phase, the exact placement would need to be</p> |

| LIMITATION / UNCERTAINTY | ASSUMPTION |
|--|---|
| | confirmed in relation to a drill grid. |
| Access route and creation of new tracks | The making of new tracks or access roads will be avoided, and existing tracks and routes will be used, as far as possible. While every effort will be made to minimize environmental damage, in some cases it will be necessary to clear some areas to create small roads or access lines to conduct exploration activities. |
| Structures | No permanent infrastructure development will take place in the greenfield phase of operations which will span the 3-year award period. Depending on results, the proponent will set up temporary field camps required to house field staff for the purpose of sample collection, ground surveys and drilling. The camps will be such that their locations can be fully rehabilitated post completion of the field work. |



SIGNIFICANCE OF IMPACT

| Sensitivity | Significance of Impact | | | | | |
|-------------|------------------------|-----------|--------------|--------------|--------------|--------------|
| | Biophysical | Social | Low | Minor (2) | Moderate (3) | Major (4) |
| High (3) | High (3) | Minor (3) | Moderate (6) | Major (9) | Major (12) | Major (12) |
| Medium (2) | Medium (2) | Low (2) | Minor (4) | Moderate (6) | Major (9) | Major (9) |
| Low (1) | Low (1) | Low (1) | Low (2) | Minor (3) | Moderate (4) | Moderate (4) |

SENSITIVITY AND VALUE

Low

Of value, importance or rarity on a local scale, and with limited potential for substitution, and/or moderate sensitivity to change, or has some capacity to accommodate a change.

Medium

Of value, importance or rarity on a regional scale, and with limited potential for substitution, and/or moderate sensitivity to change, or moderate capacity to accommodate a change.

High

Of value, importance or rarity on an international and national scale, and with very limited potential for substitution, and/or very sensitive to change, or has little capacity to accommodate a change.

MITIGATION

Mitigation comprises a hierarchy of measures aiming to prevent or minimize environmental impacts by avoidance, reduction of source, reduction of receptor level, repairing and restoring, compensation, remediation, and enhancement.

Mitigation measures can be split into three distinct categories, broadly defined as:

Standard practice

Standard practice and other best practice measures for avoiding and minimizing environmental impacts. These are considered as good practice measures.

Active intervention in the EA process

Active intervention in the design process, through implementing design measures that would actively avoid or minimize impact or modifying the design through the inclusion of environmental measures to reduce the magnitude of change. These are considered as embedded mitigation.

Specialized addition of measures

Specialized addition of measures to follow-up action to the implementation to further reduce adverse impacts that remain after the incorporation of embedded mitigation. These are considered as additional mitigation.

The EA is an iterative process whereby the outcomes of the environmental and social assessments inform the project. The EMP provides the good practice mitigation measures and specified additional measures or follow-up action ECC has recommended for the project.

LOW – MAJOR (BENEFICIAL)

Impacts are considered to be beneficial to the environment and society.

- Low (negative) 0 - 25**
- Impacts are considered to be local factors that are unlikely to be critical to decision making.
- Minor (negative) 25 - 50**
- Impacts are considered to be important factors but are unlikely to be key decision-making factors. The impact will be reversible, but the impact magnitude is sufficiently small (with and without mitigation) and well within accepted standards, and/or the receptor is of low sensitivity. Impacts are considered to be short term, reversible and/or localized in extent.
- Moderate (negative) 50 - 75**
- Impacts are considered within acceptable limits and standards. Impacts are short term, but reversible and of low regional significance. These are generally not exclusively associated with site and features of national importance and measures/limits that are using a and which, if not, cannot be repaired or restored.
- Major (negative) 75 - 100**
- Impacts are considered to be key factors in the decision-making process, but may have an impact of major significance, or large magnitude impact occur to highly sensitive receptors/impacts. Impacts are expected to be permanent and/or non-reversible on a national scale and/or have international significance or exist in a region with high constraints.

© COPYRIGHT & PROPERTY OF ENVIRONMENTAL COMPLIANCE CONSULTANCY | NO PART OF THIS DOCUMENT IS TO BE COPIED OR REPRODUCED.

FIGURE 11 - ECCS IMPACT PREDICTION AND EVALUATION METHODOLOGY

7 IMPACT ASSESSMENT FINDINGS AND PROPOSED MITIGATION MANAGEMENT MEASURES

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

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

The following topics were considered during the scoping phase:

- Surface water and groundwater;
- Soils and topography;
- Landscape (visual impacts, sense of place);
- Socioeconomics (employment, demographics, and land-use);
- Noise;
- Ecology (fauna and flora);
- Air quality (emissions, pollutants and dust); and
- Cultural heritage.

Table 7 sets out the findings of the scoping assessment phase. Activities that could be the source of an impact have been listed, followed by receptors that could be affected. The pathway between the source and the receptor has been identified where both are present. Where an activity and/or receptor has not been identified, an impact is unlikely, thus no further assessment or justification is provided. Where the activity, receptor and pathway have been identified, a justification has been provided documenting if further assessment is required or not required.

Due to the nature and localised scale of the exploration activities, and the environmental context of the EPL, the potential environmental and social effects are limited and unlikely to be significant. The only area where uncertainty remained during the scoping phase was the potential cumulative effects on human receptors from the increase in noise levels and visual impacts. The receptors are mainly the farmers, cattle, neighbours and visitors, although noise may have an effect on some organisms as well.

TABLE 7 - IDENTIFICATION AND EVALUATION OF IMPACTS AND MITIGATION MEASURES

| Receptor | Description of activity | Description of impact | effect/description of magnitude | value of sensitivity | MAGNITUDE OF CHANGE | SIGNIFICANCE OF IMPACT | IMPACT MANAGEMENT/CONTROL MEASURES | RESIDUAL IMPACT AFTER MITIGATION |
|----------------------------|--|---|---|----------------------|---------------------|------------------------|---|----------------------------------|
| Groundwater quality | Site operations such as maintenance activities, loss of containment, accidental fuel / hydraulic fluid leaks and spills, or similar sources. | Hydrocarbon leaks and spills could enter the aquifer causing contamination. | Adverse Direct Partly Reversible Moderate Short term Regional Possible | Medium | Minor | Minor (4) | <p>Good house keeping</p> <p>Training through toolbox talks and induction</p> <p>All stationary vehicles and machinery must have drip trays to collect leakages of lubricants and oil</p> <p>Spill kits and absorption material available during fuel delivery, storage or use</p> <p>Accidental spills and leaks (including absorption material) to be cleaned as soon as possible</p> <p>Major spills to be reported, also to the</p> | Low (2) |

| Receptor | Description of activity | Description of impact | effect/description of magnitude | value of sensitivity | MAGNITUDE OF CHANGE | SIGNIFICANCE OF IMPACT | IMPACT MANAGEMENT/CONTROL MEASURES | RESIDUAL IMPACT AFTER MITIGATION |
|----------|-------------------------|-----------------------|---------------------------------|----------------------|---------------------|------------------------|--|----------------------------------|
| | | | | | | | <p>authorities</p> <p>Maintenance and service schedules on equipment is in place</p> <p>Store bulk fuel in adequate containment areas (non-porous surface, bunded, within a fenced-in area)</p> <p>Ensure integrity of containment with regularly inspections)</p> <p>No damaged containers in use</p> <p>Preventative measures will be in place when service and maintenance activities are done (drip trays, non-porous surfaces, funnels, non-damaged containers)</p> | |

| Receptor | Description of activity | Description of impact | effect/description of magnitude | value of sensitivity | MAGNITUDE OF CHANGE | SIGNIFICANCE OF IMPACT | IMPACT MANAGEMENT/CONTROL MEASURES | RESIDUAL IMPACT AFTER MITIGATION |
|----------------------------|---|---|--|----------------------|---------------------|------------------------|---|----------------------------------|
| | | | | | | | Refuelling is done in areas with adequate preventative measures in place | |
| Groundwater quality | Potential spillages of drill fluid, lubrication, etc. or exploration activities that penetrate the groundwater table. | Hydrocarbon leaks and spills could enter the aquifer causing contamination. | Adverse Indirect Partly Reversible Minor Short term Local Possible | Low | Minor | Low (2) | Ensure spill kits and preventative measures (e.g. drill pads) are in place at exploration sites Drill system should be dug to direct any accidental spills into sumps Extraction volumes of water shall be minimal during exploration and where possible, water from existing water sources shall be used | Low (1) |
| Water | Discharge and infiltration of non-contained wastewater | Wastewater can contaminate surface and | Adverse Direct Partly Reversible | Low | Minor | Low (2) | Wastewater discharges will be contained Workers will be made aware about the | Low (1) |

| Receptor | Description of activity | Description of impact | effect/description of magnitude | value of sensitivity | MAGNITUDE OF CHANGE | SIGNIFICANCE OF IMPACT | IMPACT MANAGEMENT/CONTROL MEASURES | RESIDUAL IMPACT AFTER MITIGATION |
|--------------|--|--|---|----------------------|---------------------|------------------------|--|----------------------------------|
| | | groundwater | Minor Short term Regional Unlikely | | | | importance of wastewater management Good housekeeping Ensure prompt clean-up of spills | |
| Water | Inadequate management of waste | Waste items and litter can pollute drainage channels | Adverse Cumulative Reversible Minor Temporary Onsite Unlikely | Low | Minor | Low (2) | Good housekeeping. Training and awareness through toolbox talks and induction. Implement a Standard Operational Procedure (SOP) on waste management, from | Low (1) |
| Soil | Inadequate management of hazardous and hydrocarbon waste | Pollution of soil | Adverse Direct Reversible Minor Short term Onsite | Low | Low | Low (1) | cradle to grave for all kinds of waste possible onsite (e.g. domestic, mineral, hydrocarbons, etc.) Raise awareness about the importance of responsible waste | Low (1) |

| Receptor | Description of activity | Description of impact | effect/description of magnitude | value of sensitivity | MAGNITUDE OF CHANGE | SIGNIFICANCE OF IMPACT | IMPACT MANAGEMENT/CONTROL MEASURES | RESIDUAL IMPACT AFTER MITIGATION |
|---|--|---|---|----------------------|---------------------|------------------------|--|----------------------------------|
| | | | Possible | | | | <p>management.</p> <p>Implement a culture of correct waste collection, waste segregation and waste disposal.</p> <p>Avoid hazardous waste onsite.</p> <p>Wastewater discharges will be contained – no disposal of wastewater or processing or tailings effluent.</p> | |
| Terrestrial ecology and biodiversity | Vegetation clearing for access routes and exploration activities | Loss / alteration of terrestrial habitats and loss of species | <p>Adverse</p> <p>Direct</p> <p>Reversible</p> <p>Minor</p> <p>Short term</p> <p>Onsite</p> <p>Possible</p> | Low | Minor | Low (2) | <p>Use existing roads for access to avoid new tracks.</p> <p>Minimise clearance areas through proper planning of the exploration activities, especially at drill areas.</p> <p>Where necessary, rescue</p> | Low (1) |

| Receptor | Description of activity | Description of impact | effect/description of magnitude | value of sensitivity | MAGNITUDE OF CHANGE | SIGNIFICANCE OF IMPACT | IMPACT MANAGEMENT/CONTROL MEASURES | RESIDUAL IMPACT AFTER MITIGATION |
|---|---|--|--|----------------------|---------------------|------------------------|---|----------------------------------|
| | | | | | | | and relocate plants of significance. Promote revegetation of cleared areas upon completion of exploration activities. | |
| Terrestrial ecology and biodiversity | Ambient noise as a result of machinery use (i.e. drill rigs), the diesel generator, and vehicle movement (also through the use of airborne equipment) | Residing, nesting and slow moving organisms can be disturbed | Adverse Direct Reversible Minor Short term Onsite Likely | Low | Low | Low (1) | Restrict excessive noise to areas of activities only. Restrict excessive noise to daytime hours (7 am to 5 pm weekdays and 7 am until 1 pm on Saturday) No activities between dusk and dawn. Exploration equipment shall be suitably positioned to ensure that noisy equipment is away from receptors. All equipment to be shut | Low (1) |

| Receptor | Description of activity | Description of impact | effect/description of magnitude | value of sensitivity | MAGNITUDE OF CHANGE | SIGNIFICANCE OF IMPACT | IMPACT MANAGEMENT/CONTROL MEASURES | RESIDUAL IMPACT AFTER MITIGATION |
|---|--|---|--|----------------------|---------------------|------------------------|--|----------------------------------|
| | | | | | | | down or throttled back between periods of use. Respect civic aviation regulations about the use of a drone. | |
| Terrestrial ecology and biodiversity | Increased movement of vehicles and equipment | Residing, nesting and slow-moving organisms can be disturbed, injured or killed | Adverse Direct Partly Reversible Moderate Short term Onsite Possible | Low | Moderate | Minor (3) | Restrict movements to areas of activities only. Use existing tracks and routes only. Identify rare, endangered, threatened and protected species in advance. Route new tracks around protected species and sensitive areas. | Low (1) |

| Receptor | Description of activity | Description of impact | effect/description of magnitude | value of sensitivity | MAGNITUDE OF CHANGE | SIGNIFICANCE OF IMPACT | IMPACT MANAGEMENT/CONTROL MEASURES | RESIDUAL IMPACT AFTER MITIGATION |
|---|-------------------------------------|---|---|----------------------|---------------------|------------------------|--|----------------------------------|
| | | | | | | | <p>Restrict movements to daytime hours.</p> <p>Make workers aware and notify them on avoiding some areas.</p> <p>No driving off designated access routes / off-road driving.</p> <p>No animals or birds may be collected, caught, consumed or removed from site.</p> | |
| Terrestrial ecology and biodiversity | Veld fires during high wind periods | Terrestrial biodiversity destruction due to uncontrolled fire outbreaks | Adverse Direct Partly Reversible Moderate Temporary Onsite | High | Moderate | Moderate (6) | <ul style="list-style-type: none"> - No open fires are allowed to be lit by personnel associated with the proponent anywhere on the EPL outside of dedicated campsites. - The proponent to ensure that exploration campsites have proper cooking | Minor (4) |

| Receptor | Description of activity | Description of impact | effect/description of magnitude | value of sensitivity | MAGNITUDE OF CHANGE | SIGNIFICANCE OF IMPACT | IMPACT MANAGEMENT/CONTROL MEASURES | RESIDUAL IMPACT AFTER MITIGATION |
|----------|-------------------------|-----------------------|---------------------------------|----------------------|---------------------|------------------------|---|----------------------------------|
| | | | | | | | <p>facilities available to use. Gas stoves are the preferred option.</p> <ul style="list-style-type: none"> - No cigarette butts are allowed to be discarded into the environment. These should be contained in appropriate domestic containment bins and disposed of at the local landfill site. - No unauthorised movement beyond the exploration areas and campsites is allowed. - Proper fire hazard identification signage to be placed in areas that store flammable material (i.e. hydrocarbons and gas bottles). | |

| Receptor | Description of activity | Description of impact | effect/description of magnitude | value of sensitivity | MAGNITUDE OF CHANGE | SIGNIFICANCE OF IMPACT | IMPACT MANAGEMENT/CONTROL MEASURES | RESIDUAL IMPACT AFTER MITIGATION |
|---|--|---|---|----------------------|---------------------|------------------------|---|----------------------------------|
| Terrestrial ecology and biodiversity | Increased disturbance of areas with natural vegetation | Alien species and weeds can be introduced to the area | Adverse Direct Reversible Minor Short term Onsite Possible | Low | Low | Low (1) | Monitor areas of activity for weed and alien species Eradicate weeds and alien species as soon as they appear Make workers aware about alien species and weeds | Low (1) |
| Soil | Vegetation clearing | Increased exposure due to vegetation clearance can cause soil erosion | Adverse Direct Reversible Moderate Short Term Onsite Possible | Low | Moderate | Minor (3) | Ensure erosion control and prevention measures are in place when vegetation clearance is required, especially in upslope areas Where possible, plan access routes, drill pads and other activities outside of existing drainage lines Where necessary, install diversions to curb | Low (1) |

| Receptor | Description of activity | Description of impact | effect/description of magnitude | value of sensitivity | MAGNITUDE OF CHANGE | SIGNIFICANCE OF IMPACT | IMPACT MANAGEMENT/CONTROL MEASURES | RESIDUAL IMPACT AFTER MITIGATION |
|----------|--|--|---|----------------------|---------------------|------------------------|--|----------------------------------|
| | | | | | | | possible erosion Restore drainage lines when disturbed | |
| Soil | Exploration activities, heavy equipment and vehicles | Loss of soil quality due to mixing of earth matter, trampling and compaction | Adverse Direct Reversible Moderate Short term Onsite Possible | Low | Moderate | Minor (3) | Limit the possibility of compaction and creating of a hard subsurface Limit the possibility of trampling Compacted soil areas should be loosed by ripping methods Where possible, topsoil should be stockpiled separately, and re-spread during rehabilitation During exploration activities with heavy equipment, oil absorbent matting should be placed under and around the equipment | Low (1) |

| Receptor | Description of activity | Description of impact | effect/description of magnitude | value of sensitivity | MAGNITUDE OF CHANGE | SIGNIFICANCE OF IMPACT | IMPACT MANAGEMENT/CONTROL MEASURES | RESIDUAL IMPACT AFTER MITIGATION |
|-----------------|--|---|--|----------------------|---------------------|------------------------|--|----------------------------------|
| | | | | | | | <p>Equipment must be in a good condition to ensure that accidental oil spills do not occur and contaminate soil</p> <p>In the event of spills and leaks, polluted soils must be collected and disposed of at an approved site.</p> <p>Limit the possibility to mix mineral waste with topsoil.</p> | |
| Heritage | Exploration activities, movement of machinery and vehicles | Potential damage to cultural heritage sites | <p>Adverse</p> <p>Direct</p> <p>Partly Reversible</p> <p>Negligible</p> <p>Permanent</p> <p>Onsite</p> <p>Possible</p> | High | Major | Major (12) | <p>Implement a Chance Find Procedure.</p> <p>Raise awareness about possible heritage finds.</p> <p>Report all finds that could be of heritage importance.</p> <p>In case archaeological</p> | Minor (4) |

| Receptor | Description of activity | Description of impact | effect/description of magnitude | value of sensitivity | MAGNITUDE OF CHANGE | SIGNIFICANCE OF IMPACT | IMPACT MANAGEMENT/CONTROL MEASURES | RESIDUAL IMPACT AFTER MITIGATION |
|----------|-------------------------|-----------------------|---------------------------------|----------------------|---------------------|------------------------|---|----------------------------------|
| | | | | | | | <p>remains to be uncovered, cease activities and the site manager has to assess and demarcate the area.</p> <p>Project manager to visit the site and determine whether work can proceed without damage to findings, mark exclusion boundaries and inform ECC with GPS position.</p> <p>If needed, further investigation has to be requested for a professional assessment and the necessary protocols of the Chance Find Procedure have to be followed.</p> <p>Archaeologist will</p> | |

| Receptor | Description of activity | Description of impact | effect/description of magnitude | value of sensitivity | MAGNITUDE OF CHANGE | SIGNIFICANCE OF IMPACT | IMPACT MANAGEMENT/CONTROL MEASURES | RESIDUAL IMPACT AFTER MITIGATION |
|------------------|--|------------------------|---------------------------------|----------------------|---------------------|------------------------|--|----------------------------------|
| | | | | | | | <p>evaluate the significance of the remains and identify appropriate action, (record and remove; relocate or leave premises, depending on the nature and value of the remains).</p> <p>Inform the police if the remains are human.</p> <p>Obtain appropriate clearance or approval from the competent authority, if required, and recover and remove the remains to the National Museum or National Forensic Laboratory as directed.</p> | |
| Community | Exploration activities, including dust | Visual disturbance and | Adverse Direct Reversible | High | Moderate | Major (9) | Limit trenching and bulk sampling as far as possible | Minor (4) |

| Receptor | Description of activity | Description of impact | effect/description of magnitude | value of sensitivity | MAGNITUDE OF CHANGE | SIGNIFICANCE OF IMPACT | IMPACT MANAGEMENT/CONTROL MEASURES | RESIDUAL IMPACT AFTER MITIGATION |
|----------|-------------------------|---|--|----------------------|---------------------|------------------------|--|----------------------------------|
| | and emissions | temporary reduction in the sense of place | Negligible Temporary Local Likely | | | | <p>Position heavy equipment in such a way that it is out of sight from human receptors</p> <p>Apply dust suppression where possible (drilling, loading, hauling, tipping)</p> <p>Restrict speed of vehicles (<30km/h)</p> <p>Specific activities that may generate dust and impact on residents shall be avoided during high wind events</p> <p>All vehicles and machinery / equipment to be shut down or throttled back between periods of use</p> <p>Barriers or fences shall be used if exploration occurs in locations that may</p> | |

| Receptor | Description of activity | Description of impact | effect/description of magnitude | value of sensitivity | MAGNITUDE OF CHANGE | SIGNIFICANCE OF IMPACT | IMPACT MANAGEMENT/CONTROL MEASURES | RESIDUAL IMPACT AFTER MITIGATION |
|------------------|--|---|--|----------------------|---------------------|------------------------|--|----------------------------------|
| | | | | | | | <p>affect people, livestock or wildlife</p> <p>Residents need to be informed at least two weeks in advance that exploration operations are within 1km of their property</p> <p>Maintain good housekeeping</p> <p>Continuous engagement with residents to identify any concerns or issues, and appropriate mitigation and management measures agreed upon</p> | |
| Community | Movement of vehicles, exploration activities | Create conflict with farm owners and neighbours about access, | Adverse Indirect Reversible Minor | Low | Minor | Low (1) | <p>Ensure documented permission to enter farms</p> <p>Farmers should have access to all farm areas at</p> | Low (1) |

| Receptor | Description of activity | Description of impact | effect/description of magnitude | value of sensitivity | MAGNITUDE OF CHANGE | SIGNIFICANCE OF IMPACT | IMPACT MANAGEMENT/CONTROL MEASURES | RESIDUAL IMPACT AFTER MITIGATION |
|----------|-------------------------|--|---------------------------------|----------------------|---------------------|------------------------|---|----------------------------------|
| | | leaving gates open, suspicious movements, loss of farming area, etc. | Short term Onsite Likely | | | | <p>all times</p> <p>Residents shall be provided at least two weeks' notice of exploration operations within 1 km of their property</p> <p>Existing water points and feeding areas need to be left unaffected</p> <p>Use existing roads for access, avoid new tracks, clearances where possible</p> <p>Compliance with all applicable laws and agreements</p> <p>Continuous engagement with residents to identify any concerns or issues, and mitigation and management measures</p> | |

| Receptor | Description of activity | Description of impact | effect/description of magnitude | value of sensitivity | MAGNITUDE OF CHANGE | SIGNIFICANCE OF IMPACT | IMPACT MANAGEMENT/CONTROL MEASURES | RESIDUAL IMPACT AFTER MITIGATION |
|------------------|--|---|--|----------------------|---------------------|------------------------|---|----------------------------------|
| | | | | | | | agreed upon | |
| Community | Movement of vehicles, exploration activities | Presence of exploration team can be blamed for stock theft and poaching | Adverse Cumulative Reversible Minor Temporary Local Unlikely | Low | Minor | Low (2) | <p>Develop and implement an operation's manual of procedures to work on private farms and implement monitoring programmes thereafter.</p> <p>Maintain continuous engagement with residents to identify any concerns or issues, and appropriate mitigation and management measures agreed upon.</p> <p>Ensure appropriate supervision of all activities.</p> <p>Raise awareness and sensitize employees about contentious issues such as stock theft and poaching.</p> | Low (1) |

| Receptor | Description of activity | Description of impact | effect/description of magnitude | value of sensitivity | MAGNITUDE OF CHANGE | SIGNIFICANCE OF IMPACT | IMPACT MANAGEMENT/CONTROL MEASURES | RESIDUAL IMPACT AFTER MITIGATION |
|--------------------------------|---|---|--|----------------------|---------------------|------------------------|--|----------------------------------|
| | | | | | | | Accidents and incidents need to be reported to the project manager and recorded in an incident register. | |
| Community and livestock | Airborne EM survey over the possible low flying, indication of line spacing | Perceived impact from low-flying EM survey activities on livestock and humans | Adverse indirect Reversible Minor Temporary Local Unlikely | Low | Minor | Low (2) | <p>Prior to conducting aerial surveys, both directly and indirectly affected parties should be informed in writing of exploration activities at least 2 weeks prior to conducting the aerial surveys.</p> <p>The following information is to be included in the written communication sent. This can be in the form of a Press Notice.</p> <ul style="list-style-type: none"> - Company name, - Survey dates, time and duration, - Purpose of the | Low (1) |

| Receptor | Description of activity | Description of impact | effect/description of magnitude | value of sensitivity | MAGNITUDE OF CHANGE | SIGNIFICANCE OF IMPACT | IMPACT MANAGEMENT/CONTROL MEASURES | RESIDUAL IMPACT AFTER MITIGATION |
|------------------|-------------------------|---|--|----------------------|---------------------|------------------------|--|----------------------------------|
| | | | | | | | survey, – Flight altitude, – Survey location, Map of survey area and flight lines, and – Contact details for enquiries. | |
| Community | Exploration activities | Triggers job creation, skills development and opportunities for the local economy | Beneficial Direct Reversible Minor Short term Local Possible | Low | Minor | Low (2) | Maximize local employment. As far as possible promote local procurement. Enhance development of local skills where possible. | Low beneficial |

8 ENVIRONMENTAL MANAGEMENT PLAN

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

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

The objectives of the EMP are:

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

9 CONCLUSION

ECC's ESIA methodology was used to undertake the environmental assessment for the proposed project to identify if there is potential for significant effects to occur as a result of the proposed project. Through the scoping process, the only risk to the environment was the potential for visual impacts and noise levels to increase thereby impacting human receptors in the area. All other social and environmental receptors were scoped out as significant effects were unlikely and therefore no further assessment was deemed necessary. Through further analysis and identification of mitigation and management methods, the assessment concludes that the likely significance of effects on humans from noise impacts is expected to be minor and prior awareness and communication about the project shall be encouraged. Various best practice and mitigation measures have been identified to avoid and reduce effects as far as reasonably practical, as well as ensure the environment is protected and unforeseen effect and environmental disturbances are avoided.

REFERENCES

Christelis, G. & Struckmeier, W. (Eds.) (2001). Groundwater in Namibia – an explanation to the hydrogeological map. Windhoek: Ministry of Agriculture, Water and Rural Development (Department of Water Affairs).

Institute for Health Metrics and Evaluation (IHME) 2016. Namibia- State of the nation's health: Findings from the global burden of disease. Seattle: IHME

Mendelshon, J., Jarvis, A., Roberts, C., & Robertson, T. (2002). Atlas of Namibia. A portrait of the land and its people. Cape Town: David Philip Publishers

Ministry of Health and Social Services (MHSS) (2020). Diseases. Retrieved from www.mhss.gov.na

Namibia Statistics Agency (NSA). (2017). Namibia inter-censal demographic survey 2016 report. Windhoek: NSA

Namibia Statistics Agency (NSA). (2019). The Namibia labour force survey 2018 report. Windhoek: NSA

World Health Organization (WHO) 2016. WHO country cooperation strategy 2010 – 2015 Namibia. Windhoek: WHO

World population review. (2020). Namibian Population 2020 retrieved from <http://worldpopulationreview.com/countries/namibia-population/>

APPENDIX A- EMP

APPENDIX B - NON-TECHNICAL SUMMARY

The following was advertised in the 'Republikein, Sun, and Allgemeine Zeitung' newspapers on the 28th September 2020.

MONDAY 28 SEPTEMBER 2020

Market Watch

Republikein Sun Allgemeine Zeitung 3



The agriculture and forestry sector surged to 47.2 percent in real value added during the second quarter of 2020. PHOTOS NAMPA



Acceleration in the health sector is owed to the easing of the fiscal consolidation policy in the sector, coupled with the emergence of the pandemic.

Easing of fiscal consolidation policy

Agriculture, ICT, health drives growth

ICT grew due to increased activities in the usage of data as demand surged up for data and calls as workers switch from working from offices to homes.

The real Gross Domestic Product contracted by 11.1 percent during the period under review, compared to a decline of 3.6 percent in the same quarter of 2019.

Drivers
The deeper reduction in the domestic economy was observed across all sectors of the economy,

except for agriculture and forestry, ICT and health. The poor performance of the economy was mainly due to the impact of measures that were put in place to combat the spread of the coronavirus pandemic, NSA says.
The agriculture and forestry sector surged to 47.2 percent in real



Statistician-General (SG) of the Namibia Statistics Agency (NSA) Alex Shimaufeni.
PHOTO NAMPA

value added during the second quarter of 2020, relative to a steeper contraction of 31.8 percent registered during the same quarter of 2019, NSA added.

The main driver for the improved performance stems from an increase in activities of the crop farming sub-sector, which posted a massive

growth of 296.7 percent in real value added compared to a decline of 61.0 percent in the corresponding quarter of 2019. The positive performance in the sector is attributed to the number of minutes used that increased during the period under review, the report further indicates.

-Nampa

The Namibian Statistics Agency (NSA) recorded improved performances in the agriculture and forestry, information and communication technology (ICT) and health sectors, according to the Producer Price Index report.

The improved growth rates of 47.2 percent were recorded for agriculture and forestry, 11.0 percent for ICT, and 6.0 percent for the health sector, compared to the previous quarter in 2019.

The ICT sector's growth results from increased activities in the usage of data as demand surged up for data and calls as workers switch from working from offices to homes, NSA pointed out.

This was further exacerbated by demand from higher institutions switching from face-to-face teaching to online learning. Acceleration in the health sector is owed to the easing of the fiscal consolidation policy in the sector, coupled with the emergence of the pandemic that saw increased activities resulting in the employment of more health workers to assist in containing the disease, NSA emphasised.

NOTICE OF AN ENVIRONMENTAL ASSESSMENT & PUBLIC PARTICIPATION PROCESS FOR EXPLORATION ACTIVITIES FOR BASE AND RARE METALS AND PRECIOUS METALS, IN THE KHOMAS AND ONAHUKE REGIONS, NAMIBIA

Environmental Compliance Consultancy CC (ECC) hereby gives notice to the public that an application for an environmental clearance certificate in terms of the Environmental Management Act, No. 7 of 2007 will be made as per the following:

Applicant: Kuisieb Copper Company (Pty) Ltd
Environmental Assessment Practitioner (EAP): Environmental Compliance Consultancy
Location: Khomas and Onahuke Regions, Namibia

Project: Exploration activities on EPL 7730, 7738, 7739, 7731, 7732, 7733, 7734, 7735, 7736, 7737, 7738, 7739, 7740, 7741, 7742, 7743, 7730, 7731, 7732 for base and rare metals and precious metals in the Khomas and Onahuke Regions, Namibia.

Proposed activity: The proponent proposes to carry out exploration activities for base and rare metals and precious metals in the Khomas and Onahuke regions in the Giselabeh, Witkeis and Doringsvalle areas, of eastern Namibia. Exploration methods may include an airborne electromagnetic survey (iron-invasive, coarse line spacing) and ground truthing, soil and rock-chip sampling, geophysical mapping and geophysical surveys. Exploration trenching and drilling may occur at a later stage should initial test results appear viable.

Application for environmental clearance certificate: In terms of the Environmental Management Act, No. 7 of 2007, ECC on behalf of Kuisieb Copper Company is required to apply for an environmental clearance certificate from the competent authority, the Ministry of Environment, Forestry and Tourism, for the above-mentioned project.

Purpose of the review and registration period: The purpose of the review and registration period is to introduce the proposed project and to afford interested and Affected Parties (I&APs) an opportunity to register and comment on the Non-Technical Summary (NTS) and to ensure that potential issues and concerns are brought forward, captured and considered further in the assessment process.

Registration period: Effective from 21 September 2020 – 12 October 2020

How you can participate: ECC is undertaking the required environmental assessment and public participation process in terms of the Act. I&APs and stakeholders are required to register for the project at: <https://ecc.environmental.com/project/>

Environmental Compliance Consultancy
Registration Number: 02203312448
Members: Mr J S Boudierhout or Mrs J Moseley
PO Box 91133, Storm Arndtsrook
Tel: +264 8 629 7600
E-mail: info@eccenvironmental.com
Website: <http://www.eccenvironmental.com>
Project ID: ECC-20-102-ADT-019

NOTICE OF AN ENVIRONMENTAL ASSESSMENT AND PUBLIC PARTICIPATION PROCESS FOR EXPLORATION ACTIVITIES ON EPL 7769 HARDAP AND KHOMAS REGIONS, NAMIBIA

Environmental Compliance Consultancy CC (ECC) hereby gives notice to the public that an application for an environmental clearance certificate in terms of the Environmental Management Act, No. 7 of 2007 will be made as per the following:

Applicant: Iin Peng Investments (Pty) Ltd
Environmental Assessment Practitioner (EAP): Environmental Compliance Consultancy
Location: Hardap and Khomas Regions, Namibia

Project: Exploration activities on EPL 7769 for base and rare metals, dimension stones, industrial minerals, and precious metals in the Hardap and Khomas Regions, Namibia.

Proposed activity: The proponent proposes to carry out exploration activities for base and rare metals, dimension stones, industrial minerals, and precious metals on EPL 7769. The EPL surrounds the Rehoboth town, within the Hardap Region and extends into the Khomas Region to the east. Exploration methods may include geological mapping, soil sampling, geophysical surveys, trenching and drilling.

Application for environmental clearance certificate: In terms of the Environmental Management Act, No. 7 of 2007, ECC on behalf of Iin Peng Investments (Pty) Ltd is required to apply for environmental clearance to the competent authority (Ministry of Mines and Energy) and the Ministry of Environment, Forestry and Tourism for the above-mentioned project.

Purpose of the review and registration period: The purpose of the review and registration period is to introduce the proposed project and afford interested and Affected Parties (I&APs) an opportunity to register and comment on the Non-Technical Summary (NTS) and to ensure that potential issues and concerns are brought forward, captured and considered further in the assessment process.

Registration period: Effective from 21 September to 12 October 2020.

How you can participate: ECC is undertaking the required environmental assessment and public participation process in terms of the Act. I&APs and stakeholders are required to register for the project at: <https://ecc.environmental.com/project/>

Environmental Compliance Consultancy
Registration Number: 02203312448
Members: Mr J S Boudierhout or Mrs J Moseley
PO Box 91133, Storm Arndtsrook
Tel: +264 8 629 7600
E-mail: info@eccenvironmental.com
Website: <http://www.eccenvironmental.com>
Project ID: ECC-20-102-ADT-019

TYRES

07 OCTOBER 2020

WOULD YOU LIKE TO FEATURE YOUR BRAND IN OUR FOCUS EDITION.

NEW MODELS TYRES ACCESSORIES.ETC

CONTACT LINDY FISCHER 061-2972008 OR lindy@mmh.com.na

REV UP YOUR BRAND!

POWERED BY **Business7**

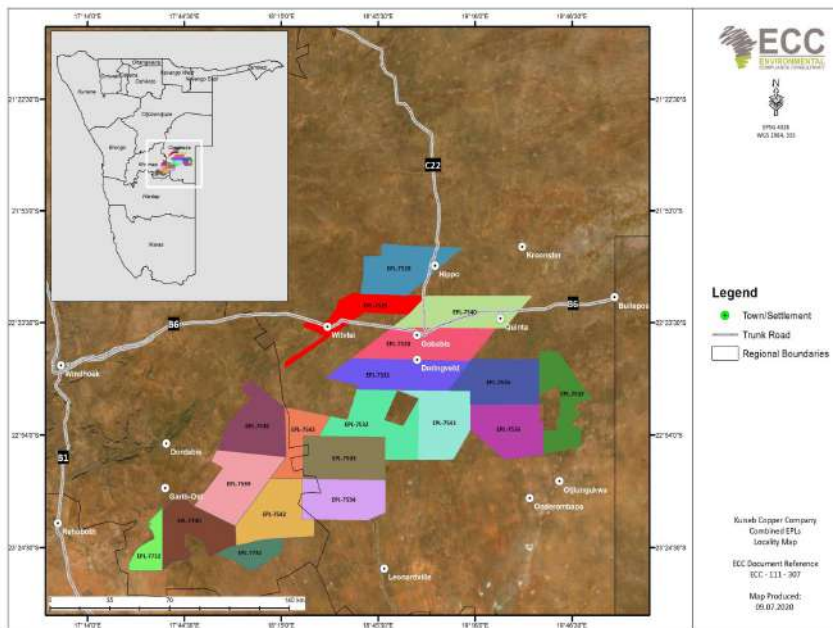
MyNa Cars
CARS

APPENDIX C.2 SITE NOTICE, LETTERS AND REGISTRATION FORM

NOTICE OF ENVIRONMENTAL ASSESSMENT AND PUBLIC PARTICIPATION PROCESS FOR EXPLORATION ACTIVITIES FOR BASE AND RARE METALS AND PRECIOUS METALS, IN THE KHOMAS AND OMAHEKE REGIONS, NAMIBIA

Environmental Compliance Consultancy cc (ECC) hereby gives notice to the public that an application for an environmental clearance certificate in accordance with the Environmental Management Act, No. 7 of 2007 will be made as per the following:

Applicant: Kuiseb Copper Company (Pty) Ltd
Environmental Assessment Practitioner (EAP): Environmental Compliance Consultancy
Location: Khomas and Omaheke regions, Namibia
Project ID: ECC-113 - 309



Project: Exploration activities on EPLs 7528, 7529, 7530, 7531, 7532, 7533, 7534, 7535, 7536, 7537, 7538, 7539, 7540, 7541, 7542, 7543, 7730, 7731, 7732 for base and rare metals and precious metals in the Khomas and Omaheke regions, Namibia.

Proposed activity: The proponent proposes to carry out exploration activities for base and rare metals and precious metals in the Khomas and Omaheke regions in the Gobabis, Witvlei and Doringveld areas, of eastern Namibia. Exploration methods may include an airborne electromagnetic survey (non-invasive, coarse line spacing) and ground truthing, soil and rock-chip sampling, geological mapping and geophysical surveys. Exploration trenching and drilling may occur at a later stage should initial test results appear viable.

Purpose of the review and registration period: The purpose of the review and registration period is to introduce the proposed project and to afford Interested and Affected Parties (I&APs) an opportunity to register and comment on the Non-Technical Summary (NTS) and to ensure that potential issues and concerns are brought forward, captured and considered further in the assessment process.

Registration period: Effective from **21 September 2020 – 12 October 2020**.

How you can participate: ECC is undertaking the required environmental assessment and public participation process in terms of the Act. I&APs and stakeholders are required to register for the project at: <https://eccenvironmental.com/projects/>



Contact: Mr JS Bezuidenhout or Mrs J Mooney
 Environmental Compliance Consultancy
 Registration Number CC/2013/11404
 PO Box 91193, Klein Windhoek
 Tel: +264 81 669 7608
 E-mail: info@eccenvironmental.com
 Website: <http://www.eccenvironmental.com>





+264 81 669 7608

info@eccenvironmental.com

www.eccenvironmental.com



ECC Ref: ECC-113-309-LET-64-A
22 September 2020

Identified Stakeholder and or Potentially Interested Party for:
Kuseib Copper Company Exploration Activities

Dear Sir or Madam:

RE: NOTIFICATION OF ENVIRONMENTAL ASSESSMENT FOR EXPLORATION ACTIVITIES FOR BASE AND RARE METALS AND PRECIOUS METALS ON EPLs 7528, 7529, 7530, 7531, 7532, 7533, 7534, 7535, 7536, 7537, 7538, 7539, 7540, 7541, 7542, 7543, 7730, 7731, 7732 IN THE KHOMAS AND OMAHEKE REGIONS, NAMIBIA.

Environmental Compliance Consultancy (ECC) has been engaged by Kuseib Copper Company (Pty) Ltd (the Proponent) to act on their behalf for the environmental clearance certificate application for the proposed exploration activities for base and rare metals and precious metals on EPLs 7528, 7529, 7530, 7531, 7532, 7533, 7534, 7535, 7536, 7537, 7538, 7539, 7540, 7541, 7542, 7543, 7730, 7731, 7732 in the Khomas and Omaheke regions, Namibia.

ECC is conducting the Environmental Impact Assessment (EIA) in terms of the Environmental Management Act, No. 7 of 2007 and will be submitted to the competent authority and the Ministry of Environment, Forestry and Tourism for a record of decision.

The proposed project is to conduct mineral exploration activities on EPLs 7528, 7529, 7530, 7531, 7532, 7533, 7534, 7535, 7536, 7537, 7538, 7539, 7540, 7541, 7542, 7543, 7730, 7731 and 7732. As part of the proposed exploration project, the following activities are envisaged, which shall be confirmed, as the exploration program is refined:

- Airborne geophysical surveys (non-invasive, coarse line spacing);
- Potential creation of access tracks, where existing tracks cannot be utilised;
- Limited vegetation clearing for the creation of tracks, and survey access; and
- Ground exploration activities may include soil and rock-chip sampling, geological mapping, geophysical surveys, temporary trenching, drilling and drill-core sampling.

ENVIRONMENTAL COMPLIANCE CONSULTANCY CC
PO BOX 91193 WINDHOEK, NAMIBIA
MEMBERS: J L MOONEY & JS BEZUIDENHOUT
REGISTRATION NUMBER: CC/2013/11404



This letter is intended to engage stakeholders and potentially Interested and Affected Parties (I&APs) of the project and provide a communication channel to ECC for the project. You have been identified as either a stakeholder, interested or affected party; therefore ECC wishes to inform you of how you can become involved in the project.

Public participation is an important part of the EIA process, as it allows public and stakeholders to obtain information about the proposed project. Public participation occurs at various stages throughout a project lifecycle including:

- Advertising in newspapers;
- Distributing a Non-Technical Summary (NTS) to identified stakeholders and I&APs;
- Registered I&APs will also be informed of the available draft scoping report for a 7-day comment and review period, during this period I&APs will have the opportunity to review the draft document and raise any issues or concerns, and
- Stakeholders and I&APs who wish to register as an I&AP must do so on the ECC website as per the link provided below: <https://eccenvironmental.com/projects/>

If you are unable to complete the registration form online please email info@eccenvironmental.com and request an electronic copy of the form that you can complete, sign, scan and return via email to info@eccenvironmental.com to register as an I&AP for the project.

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

The NTS can also be obtained from our website and provides a brief overview of the proposed project <https://eccenvironmental.com/projects/>

Should you have any questions or require additional information please do not hesitate to contact either of us.

Yours sincerely,



Stephan Bezuidenhout
Environmental Compliance Consultancy
Contact: 081 669 7608
Email: stephan@eccenvironmental.com



Jessica Bezuidenhout (Mooney)
Environmental Compliance Consultancy
Contact: 081 669 7608
Email: jessica@eccenvironmental.com



INTERESTED AND AFFECTED PARTIES REGISTRATION FORM

PROJECT DETAILS

ECC Project Reference: ECC-113-309 Kuiseb Copper Company

Project Title: Exploration Activities on EPL 7528, 7529, 7530, 7531, 7532, 7533, 7534, 7535, 7536, 7537, 7538, 7539, 7540, 7541, 7542, 7543, 7730, 7731, 7732

Applicant: Kuiseb Copper Company (Pty) Ltd

This form serves to register Interested and Affected Parties (I&AP's) for the above-mentioned project(s) and to solicit input and participation. This form will be submitted to the competent authority for consideration in the decision making process.

| INTERESTED AND AFFECTED PARTIES (I&AP) DETAILS | |
|--|--|
| Title (Mr/Mrs/Dr/Prof.): | |
| First Name: | |
| Surname: | |
| Cell Phone: | |
| Telephone other: | |
| Email Address: | |
| Postal Address: | |
| Organisation and/or property description (if landowner/lawful occupier) | |
| Stakeholder Group (please tick) | <input type="checkbox"/> Member of Affected Community <input type="checkbox"/> Non-Governmental Organisation (NGO) <input type="checkbox"/> Provincial or Government Official <input type="checkbox"/> Local or District Official |
| GENERAL INTEREST IN THE PROJECT | |
| Please describe the nature of your interest in this project. | |



INTERESTED AND AFFECTED PARTIES REGISTRATION FORM

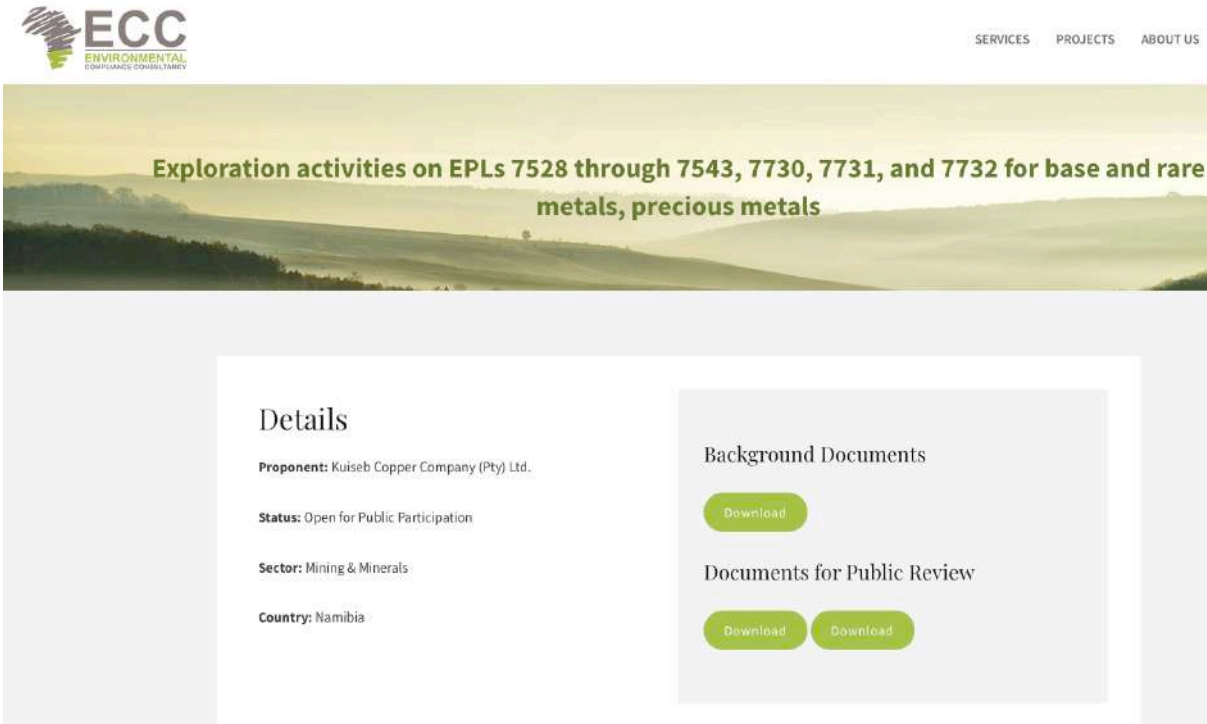
| GENERAL INTEREST IN THE PROJECT | |
|--|--|
| Do you have any specific concerns associated with the Project (for example: water, soil, pollution, Cultural or historical)? | |
| If you know of anyone else who should be informed about the project, please provide their contact details: | |
| Title (Mr/Mrs/Dr/Prof.): | |
| First Name: | |
| Surname: | |
| Cell Phone: | |
| Telephone other: | |
| Email Address: | |
| Postal Address: | |
| Organisation and/or property description (if landowner/lawful occupier) | |

ECC respectfully requests that you please sign this letter and return it to info@eccenvironmental.com to confirm that you have received notification with regard to the above, and to ensure that your comments, concerns or objections are recorded. All comments, queries, and concerns must be received via this I&AP registration form and questionnaire or alternate means. Please note that only registered I&AP's will included in future correspondence regarding this process.

Signed..... Name..... Date.....

Environmental Compliance Consultancy website:

www.eccenvironmental.com



APPENDICX C.3

Commentary log of comments received from registered I&APs.

TABLE 8 - LOG OF ALL COMMENTS AND RESPONSES GENERATED THROUGHOUT PUBLIC CONSULTATION

| NO. | CHAPTER | SECTION | I&AP / STAKEHOLDER COMMENT RECEIVED | STAKEHOLDER DETAILS | RESPONSE / CLARIFICATION |
|--|---------|---------|---|----------------------------------|---|
| COMMENTS RECEIVED BASED ON THE ADVERTS PUBLISHED AND THE NON-TECHNICAL SUMMARY PROVIDED TO REGISTERED INTERESTED AND AFFECTED PARTIES (I&APS) | | | | | |
| 1. | - | - | The project advertised today ECC-113-309-ADT-60-A does not appear on the website. When will same be listed? regards | Mr. Ronald L Kubas 21.09.2020 | Response from ECC 21.09.2020 Dear Mr. Kubas, Thank you for your enquiry. Please note that the Non-Technical Summary (NTS) also referred to as a background document is now available on our website by following the link below. This document introduces the project and sets out the means of engagement between interested and/or affected parties (I&APs) and the consultant (ECC). https://eccenvironmental.com/project/exploration-activities-on-epls-7528-through-7543-7730-7731-and-7732-for-base-and-rare-metals-precious-metals/ |
| 2 | - | - | Dear Madam/Sir, on Friday morning 9th October 2020 I noticed a person on the C 23 road to Leonardville setting up the notification board | Ursula Lüsse 12.10.2020 | Response from ECC 13.10.2020 Dear Mrs. Ursula Lüsse, Thank you for your email. |

| | | | | |
|--|--|---|--|--|
| | | <p>on our farm, not far from our farmyard, announcing the environmental assessment..... for project exploration 7528 etc.....</p> <p>Had I not seen the board by coincidence we wouldn't have known about it and the already almost run-down registration period until the 12th of Oct 20 would have expired.</p> <p>Herewith I am complaining about the notification procedure which is</p> <ul style="list-style-type: none"> - too late -indirectly, unpersonally and anonymously <p>I am appealing you to inform the public in a way that potentially interested and affected parties can actually be involved. The way it was done now creates the impression of deliberate negligence and causes a mistrust that is definitely not in mutual interest.</p> <p>I recommend that you get addresses of farmers association where the information could be spread with more people knowing what it is all about and what to do.</p> <p>Thank you in advance</p> | | <p>ECC is currently in the Public Participation phase of the assessment, which is to collect the details of direct and indirectly affected or interested parties through various means including site notices placed on or along the boundary of the project site.</p> <p>In addition, adverts were published in The Namibian Sun, Republikein, and Allgemeine Zeitung newspapers on the 21st and 28th of September 2020.</p> <p>Kindly take note that prior to the placement of the site notices in and around the project area, ECC has been in communication with the Farmers Associations for the Gobabis and Witvlei areas to gather information and compile a list of directly affected farm owners. Thus far only a few names could be retrieved, while the respective associations are still busy collecting more details on our behalf. The association has confirmed that it would distribute the draft environmental impact assessment document and management plan to its members once it is received.</p> <p>Although the legislation stipulates that Interested and Affected Parties (I&AP) should be afforded a period of 21 days to raise their comments and concerns, ECC still accepts any comments raised after the stipulated period. Therefore, should anyone like to comment on the project prior to its</p> |
|--|--|---|--|--|

| | | | | | |
|---|---|---|---|--|--|
| | | | <p>Kind regards</p> <p>Ursula Lüsse</p> | | <p>submission to the government, you are welcome to do so.</p> <p>In the meantime, we have registered you as an I&AP for the project and will appreciate if you could provide us with details of your neighboring farmers in order for us to register them and keep them informed throughout the process.</p> <p>Kindly find the attached Non-Technical summary as well as the letter to stakeholders.</p> <p>For any further information, do not hesitate to contact us.</p> <p>Thank you.</p> |
| 3 | - | - | <p>Dear Madam/Sir,</p> <p>On Sunday 11 October 2020 late afternoon I was informed of a board next to the road (C23) on my farm that wasn't there on Saturday morning. I drove there just to see it is a notification board, announcing the environmental assessment Exploration activities on EPLs 7528, 7529, 7530 ect.</p> <p>Had someone not noticed the board by coincidence and let me know about it, the already almost run-down registration period until 12 October 2020 would have expired.</p> | <p>Ms Irene Human (12.10.2020)</p> | <p>Response from ECC 13.10.2020</p> <p>Dear Ms Human,</p> <p>Thank you for your email.</p> <p>ECC is currently in the Public Participation phase of the assessment, which is to collect the details of direct and indirectly affected or interested parties through various means including site notices placed on or along the boundary of the project site.</p> <p>In addition, adverts were published in The Namibian Sun, Republikein, and Allgemeine Zeitung newspapers on the 21st and 28th of September 2020.</p> |

| | | | | | |
|--|--|--|--|--|---|
| | | | <p>Herewith I am complaining about the notification procedure which is:</p> <p>too late and completely out of order indirectly, impersonal and anonymously</p> <p>I am appealing you to inform the public in a way that potentially interested and affected parties can actually be involved. The way it was done now creates the impression of deliberate negligence and causes a mistrust that is definitely not in mutual interest.</p> <p>I recommend that you get addresses of farmers from the NAU or the different farmers associations where the information could be spread with more people knowing what it is all about and what to do.</p> <p>Thank you in advance</p> <p>Kind regards</p> | | <p>Kindly take note that prior to the placement of the site notices in and around the project area, ECC has been in communication with the Farmers Associations for the Gobabis and Witvlei areas to gather information and compile a list of directly affected farm owners. Thus far only a few names could be retrieved, while the respective associations are still busy collecting more details on our behalf. The association has confirmed that it would distribute the draft environmental impact assessment document and management plan to its members once it is received.</p> <p>Although the legislation stipulates that Interested and Affected Parties (I&AP) should be afforded a period of 21 days to raise their comments and concerns, ECC still accepts any comments raised after the stipulated period. Therefore, should anyone like to comment on the project prior to its submission to the government, you are welcome to do so.</p> <p>In the meantime, we have registered you as an I&AP for the project and will appreciate if you could provide us with details of your neighbouring farmers in order for us to register them and keep them informed throughout the process.</p> <p>Kindly find the attached Non-Technical summary as</p> |
|--|--|--|--|--|---|

| | | | | | |
|---|-------------------|--|--|---------------------------------------|--|
| | | | | | <p>well as the letter to stakeholders.</p> <p>For any further information, do not hesitate to contact us.</p> <p>Thank you.</p> |
| 4 | Chapter 4 and EMP | Section 4.3 Section 4.8, 4.9 and EMP | <p>more details on scope of mining</p> <p>water usage</p> <p>secure environment</p> <p>security</p> <p>road usage</p> <p>and much more issues</p> | Werner & Renate Bader (12.10.2020) | <p>Response from ECC 13.10.2020</p> <p>Standard ECC I&AP acknowledgement reply with the stakeholder letter and Non-Technical summary attached to e-mail.</p> |
| 5 | - | - | <p>Dear Ms Nangula,</p> <p>kindly contact Nina Farmers Association: ninaboerevereniging@gmail.com in order to cover a number of potentially I&APs and please also attach a detailed map of the proposed undertakings.</p> <p>Kind regards Ursula Lüsse</p> | Ms Ursula Lüsse (12.10.2020) | <p>Response from ECC 13.10.2020</p> <p>Dear Ms, Lüsse,</p> <p>As requested, kindly find the attached detailed map, but should you require a map for a specific EPL, kindly let me know. I have also attached KMZ files outlining the borders of the EPLs and the Farm boundaries.</p> <p>Dear Nina, @ ninaboerevereniging@gmail.com,</p> <p>As suggested by Ms. Lüsse I have attached an excel sheet with the farm details, kindly provide me with the necessary information (email address, contact number, and postal address) that you have for the farmers affected by this project.</p> <p>Should you require any further information, do not hesitate to contact us.</p> |

| | | | | | |
|---|---|---|--|---|--|
| 6 | - | - | <p>Good day Mrs Nangula</p> <p>The board of the Nina Farmers Association held yesterday its meeting. It was decided that we are going to inform OUR members.</p> <p>We can't speak for those who are not members of our association and therefore you need to follow up your information with neighbouring farmers.</p> <p>Thank you.</p> <p>Iris Stehn</p> | <p>Ms Iris Stehn (16.10.2020)</p> | <p>Dear Ms. Stehn,</p> <p>Thank you for your response. That would be greatly appreciated.</p> <p>Would you kindly provide us with your details and that of your members for us to communicate with them in writing? (Email and postal addresses).</p> <p>Thank you.</p> |
| 7 | - | - | <p>Dear Ms. Amwele</p> <p>We received the attached information from our Farmer's Union on 15/10/2020.</p> <p>Please note that I direct this to you just in an effort to understand what the implications of this may be, and that by no means are we trying to just be "difficult".</p> <p>Although I can only speak from my own viewpoint and do not have authorisation to do so on behalf of others, I wish to mention some points:</p> <p>1. This is the first time that we had any</p> | <p>Mr Herman Kuschke 16.10.2020</p> | <p>Clarifications or responses to each individual point raised follows below.</p> <p>I&AP COMMENT (Mr. Hermann Kuschke) ECC RESPONSES</p> <p>1. Response to point 1: Thank you for informing us of the poorly chosen site location for this sign, we would like as many affected people to see it – as we are not in the area we would be most appreciative if you would or someone would like to move it to a more suitable location.</p> <p>Please also note that four additional site notices were placed at various locations within the broader project area including Gobabis and Witvlei.</p> <p>2. Response to point 2: All comments received after the 28th of September are still valid and will</p> |

| | | | | | |
|---|---|---|---|--|---|
| | | | <p>mention of these activities in our area. Apparently, an information sign had been put up at Farm Gum-gams, about 60km from us at Farm Constance, on a road which we almost never use and therefore we will not see such a sign.</p> <p>2. If the 21 days since 28/9/2020 is still applicable, then please note that I am particularly concerned, even though most of us have no idea of what the consequences of this operation may be.</p> <p>3. I also wish to request you to explain to us exactly what this whole operation means, and what are the practical consequences that may follow.</p> <p>4. Please also inform us who the applicant of the prospecting licence is – we need to know what may happen on farmland which is our bread and butter.</p> <p>Kind regards Hermann Kuschke</p> | | <p>be incorporated into the assessment reports. We really value stakeholder input, so we keep these windows open to allow for continued engagement.</p> <p>3 Response to point 3: The details of the proposed project will be further explained in the EIA report to be made available to all the registered I&AP in due course. We would be willing to have a call with you to explain should this be of interested, kindly let me know.</p> <p>4. Response to point 4: Kuiseb Copper Company (Pty) Ltd in Joint venture partnership with Rio Tinto. - Kuiseb Copper is a Namibian company with sound exploration experience and knowledge. The company is only interested in base metals (for example Copper and Silver).</p> |
| 8 | - | - | <p>Good day Lovisa,</p> <p>I herewith confirm that I'm acting on behalf of the following property owners -</p> <p>1. H.S. van der Schyff, Deeds ID</p> | Mr Jandre van der Schyff 16.10.2020 | <p>Standard acknowledgement email was sent on the 19th October 2020.</p> <p>Response to point A: At ECC our team use a variety of channels to reach out to, and establish contact</p> |

| | | | | | |
|--|--|--|--|--|--|
| | | | <p>FML/00400/00REM, Anaboom (previous owner was P.G. Pretorius);</p> <p>2. B. Venter, Deed ID FML/00400/00002, Anaboom (previous owner F.G. de Jager);</p> <p>3. D.F. du Plessis, Deeds ID FML/00092, Ivanhoe;</p> <p>4. W.P. Michau, Deeds ID FML/00469/00003, Hertzog (previous owner W.S. Michau) and Deeds ID FML/00590, Tunis (previous owner W.S. Michau);</p> <p>5. C.J. Labuschagne, Deeds ID FML/00408/00001, Auheib (previous owner P.G. Pretorius).</p> <p>Please register all the above-mentioned parties as relevant I&APs (contact details will follow below) -</p> <p>1. H.S. van der Schyff: javvds@gmail.com & schyfies@iway.na</p> <p>2. B. Venter: venter@iway.na</p> <p>3. D.F. du Plessis: duples@iway.na</p> <p>4. W.P. Michau: skaiarabians@iway.na</p> <p>5. C.J. Labuschagne: labuschagnestoffel@gmail.com</p> <p>A. None of the above-mentioned parties have received any communication regarding this application directly from ECC. Note that all the property owner information, except</p> | | <p>with potentially interested or affected parties, some of the tools are more effective than others, please allow us to explain our approach:</p> <ul style="list-style-type: none"> o Firstly, we access a database of farm owners and details from the Ministry of Land Reform (Deed office) – unfortunately, it is often the case, that the information on this governmental database is not accurate – but this is always our starting point. This is why some of the details in our excel are incorrect as they are sourced directly from the Government database. o Secondly, we then try and verify this list and amend such details with entities/organisations and individuals on the ground through a public participation process (this is the phase we are currently in). o We then place adverts in the newspapers as another means to try and establish a connection to potentially interested or affected parties (Please note that newspaper notices were placed in three national newspapers for a two- week period (21/09/2020 and 28/09/2020) <p>§ The purpose of the advert is to notify the public of the assessment and invite them to register their interest in the project in order to receive more information and to be consulted with on an ongoing basis throughout the EIA process.</p> <ul style="list-style-type: none"> o Thirdly we also place site notices in locations where people can see then as another means to try and establish contact with potentially interested or |
|--|--|--|--|--|--|

| | | | |
|--|--|--|---|
| | | <p>that of D.F. du Plessis, is wrong on the excel spreadsheet indicating the properties directly affected by the prospecting right application. This is a point of worry as it proves that the consultation process is not as effective as might be expected. Please indicate how ECC will rectify this issue?</p> <p>B. It is mentioned in the NTS document that activities will be generally low-impact and non-intrusive, but that exploration activities might be "scaled up" depending on the exploration findings. Please define "scaled up".</p> <p>C. It is furthermore mentioned that "temporary trenching" might make part of the ground exploration activities. We are of opinion that "temporary trenching" cannot be considered as low-impact nor non-intrusive. What will the extent of such trenching entail? And what will the rehabilitation thereof entail should it be decided that trenching should make part of the ground exploration activities?</p> <p>D. Under paragraph 2.6 Potential Impact of the Project very few impacts have been identified as potential impacts. Are these all the impacts identified by ECC?</p> | <p>affected parties.</p> <ul style="list-style-type: none"> - Please understand that at no point in time is it ECC's intention to utilise wrong information on purpose and for this reason ECC has reached out to the farmers unions known to us within the project area. - We would appreciate your cooperation with the provision of up-to-date contact details of your members with email addresses as this will greatly assist us in reaching the correct people. <p>Response to point B: Exploration programs generally commence with geological analytical activities i.e., desktop analysis of geological aerial maps, geological mapping, aerial surveys, soil sampling, etc. Depending on the findings from these initial activities more invasive methods (i.e., drilling) may be required to verify results and to zone in on a location of interest should something be identified in the first phase.</p> <p>Response to point C: Trenching will only become an option in the rare event that drilling is not suitable for the project for various geological and or logistical reasons. More often than not simple soil sampling is conducted in preference to trenching. Rehabilitation of any exploration "feature" within the landscape will happen through a collaborative process between the explorer, the farmer, and the environmental consultants.</p> <p>Response to point D: The full spectrum of Impacts</p> |
|--|--|--|---|

| | | | | | |
|--|--|--|---|--|--|
| | | | <p>E. It is mentioned under paragraph 2.6.2 Environmental that some potential vegetation loss due to possible tracks creation; the vegetation is expected to recover fully during ensuing rain seasons. Please elaborate on this point in the case where trenching might occur and whether the restoration of the environment will be as simple as recovering during ensuing rain seasons, seeing that these properties affected are fully dependent on vegetation for the successful operation of the farms.</p> <p>F. It is mentioned that the use of resources, which include surface and groundwater, might be utilized during the exploration activities. Please indicate how the proponent is planning to approach this aspect.</p> <p>G. It is mentioned under paragraph 2.6.2 that minor risk of loss of contaminant of hydrocarbon, chemical or drill fluids from exploration activities potentially leading to localised ground contamination; this aspect will be controlled at all times. Please indicate how this potential impact will be controlled and mitigated.</p> | | <p>assessed will be outlined in the environmental impact assessment report that will be made available to all registered I&APs for review and commentary in due course. The impacts are developed and assigned mitigation measures as the project progresses and as more information becomes available to us.</p> <p>Impacts are identified by ECC and also by the community in the consultation phase – which is why we are going to such lengths to make contact with them.</p> <p>Response to point E: During exploration activities, the first option is for the proponent to use existing roads or tracks to access work sites. However, sometimes drill sites are required in areas without road access, in which case new temporary tracks need to be created. To do this, minimal vegetation will be cleared if necessary and to required standards. The Environmental Management Plan (EMP) provides recommendations in this regard to preserve root systems for example and to preserve the extracted topsoil to resurface the track once drilling is completed. This is always communicated with the farmer and agreed on, and all relevant permits will be obtained.</p> <p>Response to point F: If water is to be obtained directly from a farm owner’s borehole a signed agreement between the farm owner and the proponent will ensue. Access agreements will also be formalised and signed between both parties,</p> |
|--|--|--|---|--|--|

| | | | |
|--|--|--|--|
| | | <p>H. Under paragraph 3, which discusses the alternatives to the project, it is written that the activities shall be specific to the EPLs, which were granted by the MME. Please confirm whether the MME has already granted the EPLs or whether it is still to be granted.</p> <p>Is it accurate to say that the alternatives do not take into consideration location alternatives, but merely operational alternatives?</p> <p>I. Please confirm in which stage the EISA currently is.</p> <p>J. It is mentioned under paragraph 4.1 that vegetation clearance might occur due to the creation of tracks and access, but also possibly for the set up for survey teams field camps. Please elaborate on the possible survey teams field camps and what it will entail.</p> <p>K. A major concern is the water resource development, and that groundwater might have to be abstracted on the properties for the exploration activities. Please elaborate on how this aspect is planned to be approached in these areas considering that</p> | <p>and all relevant permits will be obtained.</p> <p>Response to point G: The Environmental Management Plan will contain practical measures to be implemented on site to ensure proper containment structures are put in place as well as monitoring and management activities to ensure compliance to such measures.</p> <p>Response to point H: The EPLs have been granted by the Ministry of Mines and Energy (MME). Alternatives are predominantly operational and technical alternatives.</p> <p>Response to point I: The EIA is at the beginning of the process and we have commenced with the Public Participation Process (PPP) stage.</p> <p>Response to point J: If they are required, details of field camps will be contained in the assessment report. Please see chapter 4 within this assessment report.</p> <p>Response to point K: The proponent aims to buy water from the local authority as their first point of call. Abstraction via private boreholes are subject to a mutually beneficial written agreement between the farm owner and the proponent. Should new boreholes be sunk, this will be subject to an abstraction permit from the Ministry of Agriculture, Water and land reform.</p> <p>Response to point L: Yes, we certainly intend to</p> |
|--|--|--|--|

| | | | | | |
|---|---|---|--|---|--|
| | | | <p>water plays a vital role in the day-to-day farming operations.</p> <p>L. Please indicate whether there will be any Stakeholder meeting (it is mentioned that it is only a possibility).</p> <p>M. Please indicate what the next steps in the process will be and when we can expect any elaborated reports regarding the exploration activities.</p> <p>Regards</p> | | <p>have meetings with the stakeholders.</p> <p>An initial meeting was held with the Namibia Agriculture Union on Thursday 22nd October 2020. At this meeting it was resolved that all communication to farm owners should be channeled through their respective farmers unions.</p> <p>Response to point M: After public participation the reports will be developed which will include all comments received from the public participation phase and incorporated. The draft documents will then be circulated to all registered I&APs to review and comment on. From those comments received the Final reports will be drafted and submitted to government.</p> |
| 9 | - | - | <p>"Good day,</p> <p>Various NAU members have contacted us with regard to your attached map and list of names.</p> <p>Our Executive Manager, Mr Roelie Venter, would like to make an appointment with you to get more information about your exercise so that we can inform our members accordingly.</p> <p>Would it be possible to meet with a representative from your firm on Monday, 19 October 2020 at 10:00 or 11:00?</p> <p>I look forward to your feedback and thank</p> | <p>Mrs Erika von Gierszewski Nambia Agricultural Union 16.10.2020</p> | <p>Response from ECC on 19.10.2020</p> <p>Dear Mrs. Erika,</p> <p>Thank you for your email, an appointment has been made with Mr Venter for this coming Thursday at 10am in Windhoek regarding this. Our office is located at 1 Jan Jonker Way Klein Windhoek.</p> <p>With kind regards,</p> <p>Jessica Bezuidenhout (Mooney)</p> <p>P.S. The meeting with the NAU was rescheduled for the 22.10.2020</p> |

| | | | | | |
|----|---|---|--|---|---|
| | | | <p>you in anticipation.</p> <p>Kind regards</p> <p>Erika</p> <p>Namibia Agricultural Union (NAU)"</p> | | |
| 10 | - | - | <p>Good day Lovisa,</p> <p>Thank you for elaborating on the concerns we've raised thus far.</p> <p>Just to clarify, are there going to be a public meeting scheduled to directly consult property owners as well?</p> <p>Regards</p> | <p>Mr. Jandre van der Schyff 23.10.2020</p> | <p>Dear Mr. van der Schyff,</p> <p>We had a meeting with Mr. Venter from the NAU yesterday.</p> <p>In that meeting, it was resolved that ECC would attend the Gobabis and Windhoek Regional Agriculture Union's (RAU) remaining quarterly meetings to introduce the EIA process in person and address all concerns that any farm owner may have with regards to this project.</p> <p>Once we have established contact with the unions and ascertained dates for this year, the unions will communicate our attendance to their members accordingly.</p> <p>Thank you.</p> |
| 11 | - | - | <p>Hi Lovisa,</p> <p>This email only has to do with one property - Ivanhoe, D.F. du Plessis (FML/00092).</p> <p>I've attached a map to this email for your</p> | <p>Mr. Jandre van der Schyff 23.10.2020</p> | <p>Response from ECC on 23.10.2020</p> <p>Dear Mr. van der Schyff,</p> <p>Thank you for your query (as per the attached email).</p> |

| | | | | | |
|----|---|---|--|--|--|
| | | | <p>reference. You will notice that the property at hand has a very small part being affected by the PR application (EPL-7543).</p> <p>The property owner has asked whether the proponent will consider removing that small part of the PR area from the property, excluding the property from the PR application? The area is ±290ha.</p> <p>Looking forward to hearing back from you.</p> <p>Regards Thank you for your feedback Lovisa. We'll wait for the results of the aerial survey then.</p> <p>Regards Jandré van der Schyff</p> | | <p>The license area has been granted by the Ministry of Mines and Energy (MME).</p> <p>The proposed exploration program may initially include an airborne survey which will then allow the client to zoom in on areas of potential interest. Until the airborne survey work is completed it will be difficult to determine which areas are of interest or not.</p> <p>We thank you for your understanding, if anything is unclear please do not hesitate to ask.</p> <p>Thank you.</p> |
| 12 | - | - | <p>Good morning Lester,</p> <p>Attached please find the Farm Details – Kuiseb Copper Company. You will note that there are numerous farms whose owners are not members of the NAU. However, I think the spelling of some farm names are wrong and thus show as non-members on our member list.</p> <p>Furthermore I herewith attach a list of the Regional Agricultural Unions and Farmers</p> | <p>Mrs Erika von Gierszewski Namibia Agricultural Union 29.10.2020</p> | <p>Response from ECC on 30.10.2020</p> <p>Thank you for this Erika</p> <p>It is highly appreciated.</p> <p>Kind regards Lester Harker</p> |

| | | | | | |
|--|---|---|--|---|--|
| | | | Association managements for the Khomas and Omaheke regions. Kind regards | | |
| 13 | - | - | Good evening, Just for clarification on your side, the ECC you send us is not applicable to our farm Grünental as we have an EPL 7029 registered. Before sending out this information, make sure to reach the correct farm owners in the Omaheke Region. Kind regards | Wilfried and Sonja Pack 11.11.2020 | Response from ECC 23.11.2020 Dear Wilfried and Sonja Pack, Thank you for your e-mail received on the 11 November 2020. Please accept our apologies for wrongly including you in our email sent out to potentially Interested and Affected Parties (I&AP's) on this project. |
| COMMENTS RECEIVED BASED ON THE DRAFT SCOPIING REPORT AND EMP PROVIDED TO REGISTERED INTERESTED AND AFFECTED PARTIES (I&APS) | | | | | |
| 1 | - | - | PLEASE CALL ME URGENTLY JEAN MARAIS SC 0811500117 And DEAR LESTER, THANK YOU FOR THE PROMPT RESPONSE. IT IS APPRECIATED. | Mr. Jean Marais 11.11.2020 | Response from ECC 11.11.2020 Dear Mr Marais, Thank you for your email and telephone conversation earlier. As per your request to know whether or not your farm De Jager 279 is potentially affected, we can confirm that it is covered over by EPL 7534. However, your farm does not fall within the area of interest delineated for the exploration project. |

| | | | | | |
|--|--|--|-------------------------------|--|---|
| | | | REGARDS JEAN MARAIS SC | | Please do not hesitate to contact me should you require any further assistance. |
|--|--|--|-------------------------------|--|---|

APPENDIX D - ECC CVS