

RAZORBACK GOLD MINING COMPANY (Pty) Ltd

MEFT ECC APPLICATION REF No: APP-003734

Updated Environmental Scoping and Environmental
Management Plan (EMP) Report to support the renewal
Application for Environmental Clearance Certificate
(ECC) for the Proposed Exploration Activities in the
Exclusive Prospecting License (EPL) No. 3195,
Erongo Region

MAY 2022

13 Feld Street, P. O. Box 3489
WINDHOEK, NAMIBIA

PROPONENT, LISTED ACTIVITIES AND RELATED INFORMATION SUMMARY

TYPE OF AUTHORISATIONS REQUIRING ECC

Exclusive Prospecting License (EPL) No. 3195

NAME OF THE PROPONENT

Razorback Gold Mining Company (Pty) Ltd

COMPETENT AUTHORITY

Ministry of Mines and Energy (MME)

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PROPOSED PROJECT

Proposed Minerals Exploration / Prospecting in the Exclusive
Prospecting License (EPL) No. 6953

PROJECT LOCATION

Karibib District, Erongo Region
(Lat: -20.724847, Log: 15.463196)

ENVIRONMENTAL CONSULTANTS



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NON-TECHNICAL SUMMARY

1. Background

Razorback Gold Mining Company (Pty) Ltd holds the mineral rights under the Exclusive Prospecting License (EPL) No. 3195. The Environmental Clearance Certificate of the EPL 3195 was granted on the 18/06/2019 and will expire on the 18/06/2022 (Appendix A). The proponent intends to transfer and renew the ECC under Omatjete Mining Company (Pty) Ltd (Previous Proponent) in order to continue with exploration activities with special focus on base and rare metals, dimension stones, industrial minerals and precious stones.

Under an EPL 3195 regime, the Proponent is only authorised by the Ministry of Mines and Energy to conduct prospecting, not mining. Mining is undertaken under a separate authorisation called a Mining License (ML) which is only granted if an applicant has discovered and proved that the discovered minerals deposit is viable and can be developed into a profitable mine.

The EPL 3195 is located in the north-west of Namibia in the Erongo Region, approximately 120 km north-west of Omaruru and approximately 50km north of Omatjete in the Dâures electoral constituency. The EPL covers an area of 10386.5165 ha. The land use of the area is dominated by small scale agriculture.

Omatjete area has a Subtropical desert climate and is located at an elevation of 1225.06 meters above sea level (Classification: BWh). The average annual temperature in the area is 20.87°C, which is - 3.59°C lower than Namibia's average. Omatjete has an average yearly precipitation of 9.9 millimeters and 19.51 wet days (5.35 %). rainfall is expected between January and April and little or no rainfall is expected between June and August.

The EPL area falls within the Savanna Western Highlands, dominated by *Acacia reficiens* also known as the red-thorn (Figure 3). According to according to Giess (1998) as cited in the Specialist report by LM Environmental Consulting, 2010, the target area falls within a transition zone between the Mopane Savanna and Semi-desert and Savanna Transition (Escarpment zone) vegetation types The Mopane Savanna to the north is characterised by mopane (*Colophospermum mopane*) with species of Commiphora and the Acanthaceae family being well represented. A striking component of the Mopane Savanna also found in the Ondundu area is *Sesamothamnus guerichii* (Herero Sesame-bush/Ongumbati).

The EPL falls within the Dâures Constituency, which is the largest constituency in the Erongo Region with an area of 13,490 km². It has a population of approximately 12000 of which the majority depend on communal subsistence farming for their livelihood. The name Dâures is derived from the Khoe Khoegowab name of the Brandberg mountain which is the highest in Namibia. The constituency office is in Okombahe, with additional settlement offices in Uis and Okombahe. Omatjete falls under the other rural residential clusters in the arandis alongside Tubusis and Okongue.

The Proponent intends undertake minerals exploration activities covering desktop studies, followed by site-specific activities on targets that may be delineated and using field-based exploration techniques/methods such as geophysical surveys, geological mapping, trenching, drilling, bulk sampling and test mining. The implementation of the site-specific field-based activities will be subject to the discovery of potential economic minerals deposits targets.

The proposed exploration activities are listed in the Environmental Impact Assessment (EIA) Regulations, 2012 and the Environmental Management Act, 2007, (Act No. 7 of 2007) and cannot be

undertaken without an Environmental Clearance Certificate (ECC). This Environmental Management Plan (EMP) report has been prepared by Risk – Based Solutions CC to support the application for ECC for the proposed exploration activities. The preparation of this EMP Reports is based on the outcomes of the Environmental Impact Assessment (EIA)

The environmental impacts that the proposed exploration activities and associated infrastructures and facilities will have on the receiving environment (physical, biological and socioeconomic) will depend on the extent of the proposed activities over the development area, management of the area and how the mitigations as detailed in this EMP report are eventually implemented by the Proponent.

2. Summary of the Proposed Mitigation Measures

Avoiding sensitive habitats such as Ephemeral River channels, rock heads and mountainous terrains as well as track discipline (including not killing/poaching of fauna and unnecessarily cutting down of trees) must be adhered to and/or enforced at all times. Mitigation measures shall be implemented as detailed in this EMP report and includes the following:

1. Project planning and implementation.
2. Implementation of the EMP.
3. Public and stakeholders' relations.
4. Measures to enhance positive socioeconomic impacts.
5. Environmental awareness briefing and training.
6. Erection of supporting exploration infrastructure.
7. Use of existing access roads, tracks and general vehicle movements.
8. Mitigation measures for preventing flora destruction.
9. Mitigation measures for preventing faunal destruction.
10. Mitigation measures to be implemented with respect to the exploration camps and exploration sites.
11. Mitigation measures for surface and groundwater protection as well as general water usage.
12. Mitigation measures to minimise negative socioeconomic impacts.
13. Mitigation measures to minimise health and safety impacts.
14. Mitigation measures to minimise visual impacts.
15. Mitigation measures to minimise vibration, noise and air quality.
16. Mitigation measures for waste (solid and liquid) management.
17. Rehabilitation plan, and.

18. Environmental data collection.

3. Conclusions and Recommendations of the EMP

Based on the findings of the EIA and the mitigation measures provided in this EMP Report, it is hereby recommended that the proposed exploration activities be issued with an Environmental Clearance Certificate (ECC). The following is the summary of the key conditions that shall be implemented by the Proponent for the proposed project activities:

- (i) The Proponent will undertake to implement the conditions of the land lease agreements to be concluded with the owners of the land as may be required to support the proposed exploration activities.
- (ii) The proponent shall implement and adhere to all the provisions of this EMP report.
- (iii) Mitigation measures shall be implemented as detailed in this EMP report.
- (iv) Rehabilitation must be undertaken at all times.
- (v) The Proponent shall adhere to all the applicable national regulations and standards as well as Good International Industry Practice (GIIP) that defines leading industry best practices as provided for in the Equator Principles and International Finance Corporation (IFC) environmental management guidelines and frameworks, and.
- (vi) The Proponent shall adopt the precautionary approach / principles in instances where baseline information, national or international guidelines or mitigation measures have not been provided or do not sufficiently address the site-specific project impact.

The following are the recommended actions (roles and responsibility) to be implemented by the Proponent as a part of the management of the impacts through implementations of this EMP Report:

- (i) Appoint an Environmental Control Officer to lead and further develop, implement and promote environmental culture through awareness raising of the workforce, contractors and sub-contractors in the field during the whole duration of the proposed project.
- (ii) Provide with other support, human and financial resources, for the implementation of the proposed mitigations, rehabilitation plans and effective environmental management during the planned mine project life cycle.
- (iii) Develop a simplified environmental induction and awareness programme for all the workforce, contractors and sub-contractors.
- (iv) Where contracted service providers are likely to cause environmental impacts, these will need to be identified and contract agreements need to be developed with costing provisions for environmental liabilities.
- (v) Implement internal and external monitoring of the actions and management strategies developed during the project duration and a final Environmental Monitoring report to be prepared by the Environmental Control Officer and to be submitted to the regulators, and.
- (vi) Develop and implement a monitoring programme that will fit into the overall company's Environmental Management Systems (EMS) as well as for any future EIA related to the

expansion of the current delineated resources or development of completely new mine site within the EPL area.

All the responsibilities to ensure that the recommendations and provisions of this EMP Report are executed accordingly, rest with the Proponent. The Proponent shall provide all appropriate resource requirements for the implementation of this EMP as well as an independently managed (not directly controlled by the company) funding instrument for rehabilitation and associated environmental liabilities.

It is the responsibility of the Proponent to make sure that all members of the workforce including contractors and subcontractors are aware of the provisions of this EMP and its objectives. It is hereby recommended that the Proponent take all the necessary steps to implement all the recommendations of this EMP for the successful execution of the proposed exploration programme.

1. BACKGROUND

1.1 Introduction

Razorback Gold Mining Company (Pty) Ltd holds the mineral rights under the Exclusive Prospecting License (EPL) No. 3195. The Environmental Clearance Certificate of the EPL 3195 was granted on the 18/06/2019 and will expire on the 18/06/2022 (Appendix A). The proponent intends to transfer and renew the ECC under Omatjete Mining Company (Pty) Ltd (Previous Proponent) in order to continue with exploration activities with special focus on base and rare metals, dimension stones, industrial minerals and precious stones. The following summary:

- ❖ **Type of License:** Exclusive Prospecting License (EPL) No. 3195.
- ❖ **EPL Holder and Proponent:** Razorback Gold Mining Company (Pty) Ltd
- ❖ **Application Date:** 12/05/2004
- ❖ **Commodities:** Base and Rare Metals, Dimension Stone, Industrial Minerals, Precious Metals, and Precious Stones Groups
- ❖ **Size of the EPL:** 10386.5165

Razorback Gold Mining Company (Pty) Ltd is locally owned Namibian company focused on the acquisition and development of mining projects in Namibia.

1.2 Proposed Scope of Work

The Proponent intends to continue exploration activities covering desktop studies: the purchase and interpretation of the existing Government high resolution airborne geophysical data sets, regional reconnaissance assessment covering field-based activities such as regional mapping and sampling to identify and verify potential targeted areas as delineated during the desktop stage, geological mapping, sampling, surveying and possible widely spaced trenching and drilling to test the viability of any delineated local target based on the regional data collected under localised site-specific detailed geological mapping, trenching, bulk sampling, surveying, and detailed drilling to determine the feasibility of the delineated local targets. If the detailed exploration activities lead to positive results, the exploration data collected will then be put together into a prefeasibility report and if the prefeasibility results prove positive, a detailed feasibility study supported by detailed site-specific drilling, bulk sampling and laboratory testing / test mining will be undertaken on the identified site-specific area.

1.3 Regulatory Requirements

The proposed prospecting activities are listed in the Environmental Management Act, 2007, (Act No. 7 of 2007) and the EIA Regulations, 2012 and cannot be undertaken without an Environmental Clearance Certificate (ECC). The Proponent is required to submit an updated Environmental Management Plan (EMP) report for the proposed minerals prospecting activities. In fulfilment of the environmental requirements, the Proponent appointed Risk – Based Solutions CC as the Environmental Consultants led by Dr Sindila Mwiya as the Environmental Assessment Practitioner in the preparation of the EMP Report in order to support the application for ECC. The current Environmental Clearance Certificate was granted to Omatjete Mining Company (Pty) Ltd (Previous Proponent) on the 18/06/2019 and need to be renewed and transferred to Razorback Gold Mining Company (Pty) Ltd (Current Proponent). The 3195 has been transferred to Razorback Gold Mining Company (Pty) Ltd.

1.4 Location, Land Use, Infrastructure and Services

1.4.1 Location and Land Use

The EPL 3195 is located in the north-west of Namibia in the Erongo Region, approximately 120 km north-west of Omaruru and approximately 50km north of Omatjete in the Dâures electoral constituency. The EPL covers an area of 13,848.86 ha. The land use of the area is dominated by small scale agriculture Figure 2.

1.4.2 Supporting Infrastructure and Services

The EPL area is accessible along the C35 Road towards Khorixas and the minor roads D3718 or D3712 from Omatjete settlement. Within the EPL 3195 area, a network of local tracks and private farm roads linked to the C35, D3718 and D3717 roads may be used to access the EPL area. Private minor roads may require high clearance 4 x 4 vehicles and may only be used with permission from the land owners.

The following supporting infrastructures and services will be required if detailed field-based studies such as geological mapping, trenching, or drilling need to be conducted following the delineation of potential targets requiring field verifications and / or investigations:

- (i) External and internal roads network: The Proponent will use the already existing external and internal road networks during the exploration phase.
- (ii) Water supply: Raw water will be sourced from local groundwater resources. The Proponent will utilise the existing boreholes with permission from the land owners. The exploration activities such as drilling operations will require limited water resources which could also be supplied by a tanker truck.
- (iii) Energy: The proposed exploration operations will use diesels and solar energy as may be required for exploration equipment and lighting, respectively, and.
- (iv) Accommodation and other supporting facilities and services: The exploration team will utilise the exiting accommodation facilities and services in the area. In absence of such facilities and services, the Proponent will provide onsite camping accommodation and supporting portable infrastructures such as chemical toilets as well as other requirements as may be applicable. The establishment of an exploration camp will only be done with the permission of the land owner.

If, required, field-based exploration activities will only be conducted once an Access Agreement has been concluded with the affected land owner/s.

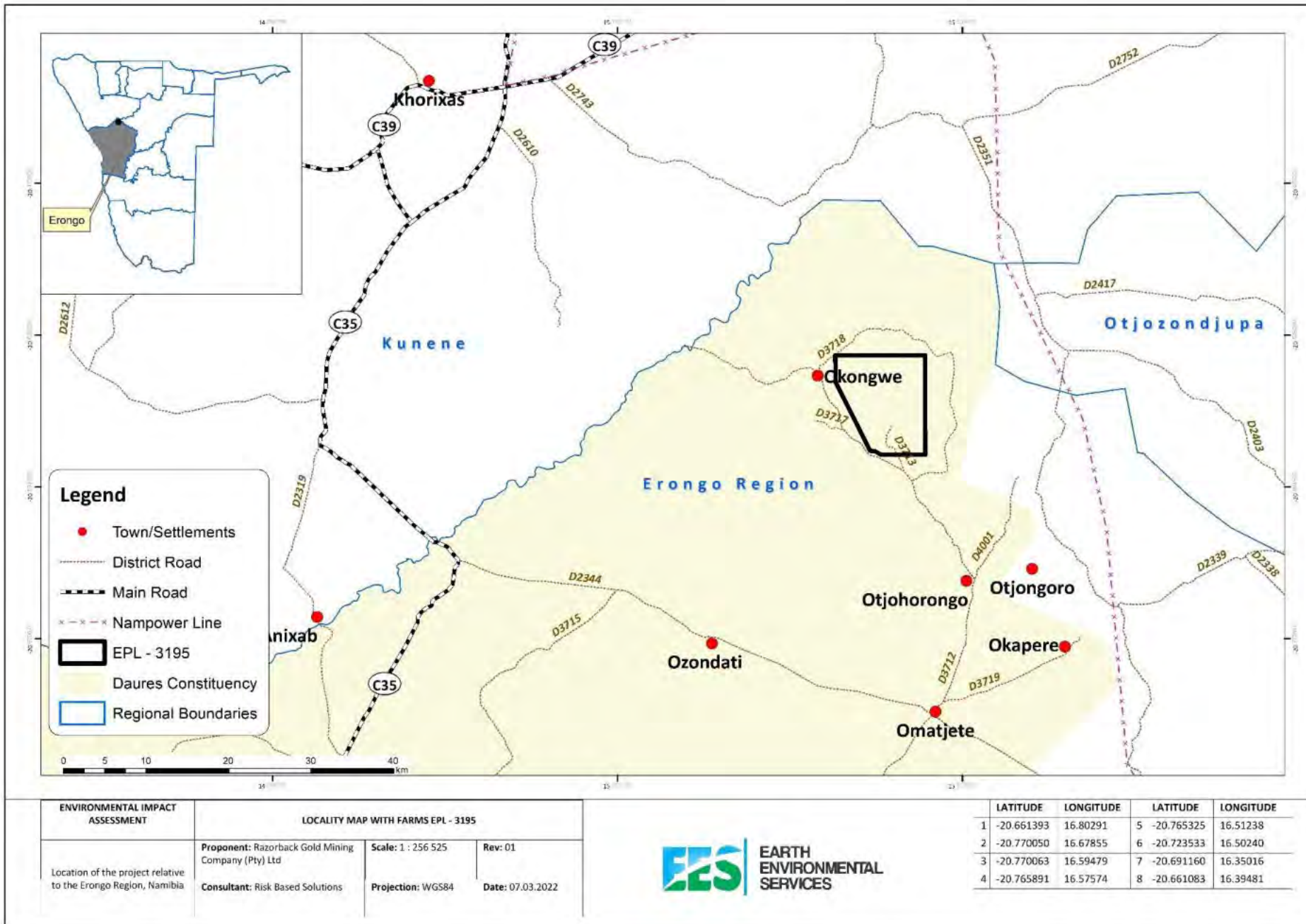


Figure 1: Detailed regional location of the EPL 3195

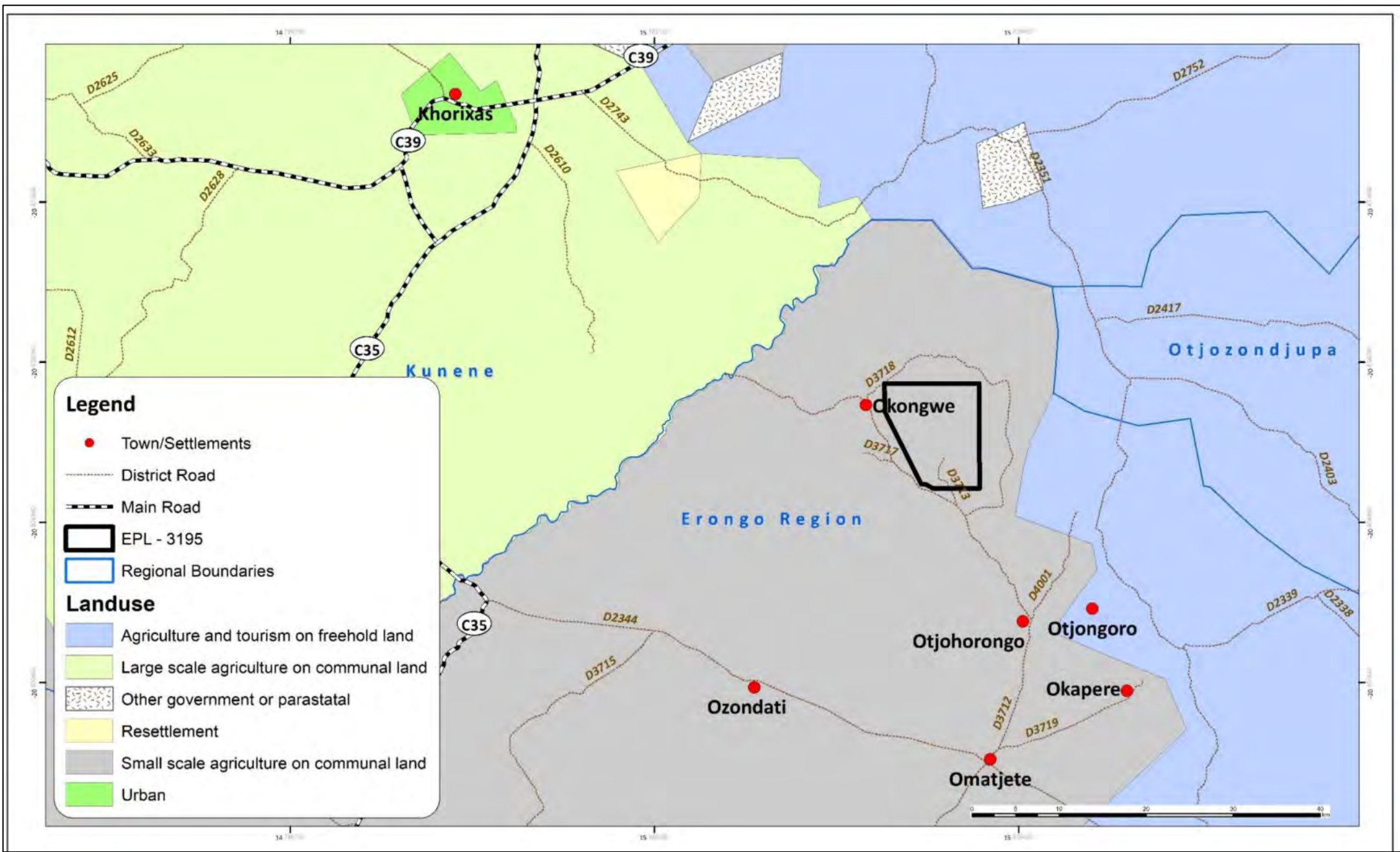


Figure 2: Land use and surrounding of the EPL 3195

1.5 Summary of the Receiving Environment

1.5.1 Climate and Topography

Omatjete has a Subtropical desert climate and is located at an elevation of 1225.06 meters above sea level (Classification: BWh). The average annual temperature in the area is 20.87°C, which is -3.59°C lower than Namibia's average. Omatjete has an average yearly precipitation of 9.9 millimetres and 19.51 wet days (5.35 %). rainfall is expected between January and April and little or no rainfall is expected between June and August (Figure 3).

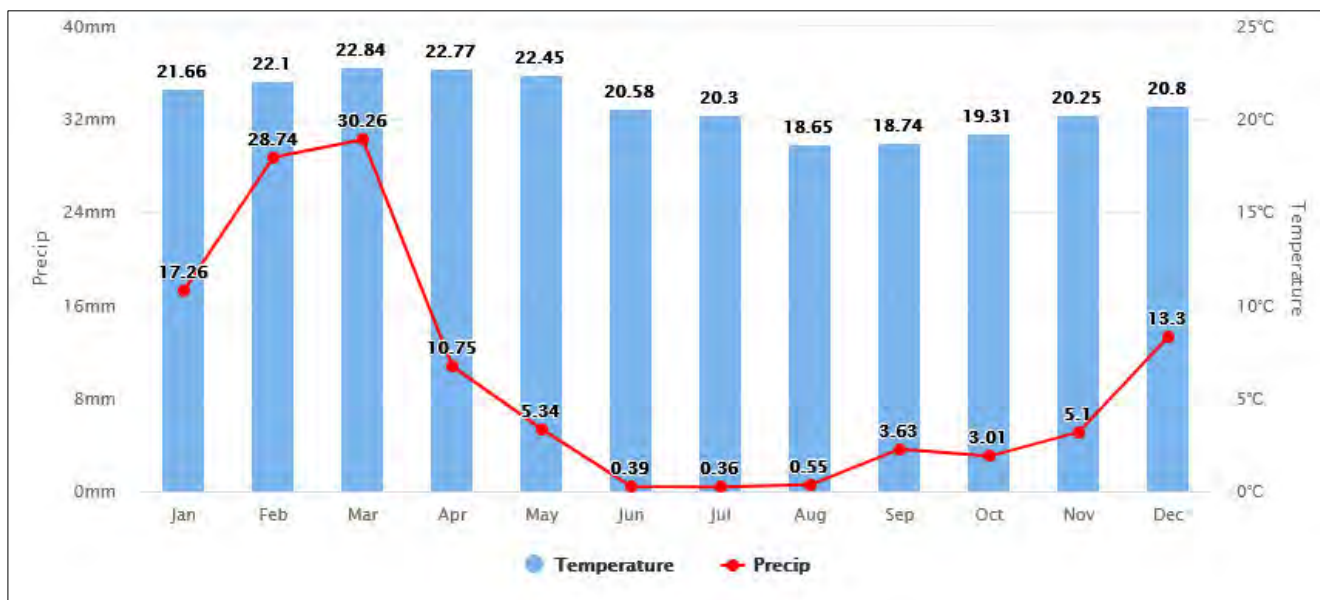


Figure 3: Summary of the climate in Omatjete (Weather and Climate, 2022).

1.5.2 Habitats and Ecosystem

The EPL area falls within the Savanna Western Highlands, dominated by *Acacia reficiens* also known as the red-thorn (Figure 4). According to according to Giess (1998) as cited in the Specialist report by LM Environmental Consulting, 2010. the target area falls within a transition zone between the Mopane Savanna and Semi-desert and Savanna Transition (Escarpmnt zone) vegetation types The Mopane Savanna to the north is characterised by mopane (*Colophospermum mopane*) with species of Commiphora and the Acanthaceae family being well represented. A striking component of the Mopane Savanna also found in the Ondundu area is *Sesamothamnus guerichii* (Herero Sesame-bush/Ongumbati). The Mopane Savanna has many species in common with the Mountain Savanna and this could be confirmed at Ondundu. The Escarpment zone to the south is represented by a large variety of species, many of which are endemic to Namibia. Typical in the study area are *Acacia senegal* (Three-thorned Acacia) and *Acacia tortilis subsp. heteracantha* (Umbrella-thorn/Krulpeul) and species of Commiphora, many of which are also found in the Mopane Savanna. In the survey area the transition of these two vegetation types could clearly be seen – some areas were typical of either vegetation type, while others were a mixture of the two.

The survey area falls into the zone that receives, on average, between 250 and 300 mm of rain per annum whereas the south-western corner of the EPL lies within the 200-250 mm zone (Mendelsohn et al., 2002). According to the Specialist report (LM Environmental Consulting, 2010) about 4 habitat types have been observed including: Rocky hills and valleys, Large rivers, Monechma – Catophractes hills, Calcrete plains, and Mountain peaks (Appendix B)

1.5.3 Soil

The area has generally a relatively thin natural soil cover, with very little soil cover in the more mountainous parts. Lepisols lithic dominate the EPL area, with eutric Regosols covering the east to south eastern part of the EPL (Figure 5). Lithic Leptosols and Eutric Regosols are the two soil types that make up the EPL. Lithic Leptosols are found in actively eroding landscapes, particularly in hilly or undulating regions, which make up a large portion of the EPL. The presence of a continuous hard-rock, highly calcareous, or cemented layer within 30 cm of the surface characterizes these coarse-textured soils, limiting their depth. The Lithic Leptosols are Namibia's shallowest soils, and they frequently include a lot of gravel. The Eutric Regosols are fine-textured soils from actively eroding landscapes, with thin layers right above the rock surface from which they formed. These soils, while not as shallow as Lithic Leptosols, never reach a depth of more than 50cm.

1.5.4 Geology

Ondundu is situated in the Outjo Zone (Swakop Group) of the Damara Orogen and Gariep complex (Figure 6). The area is underlain by series of upward fining sandstones, greywacke, siltstones, mudstones, schist and dolomites. According to a Specialist report by Water Science cc on the EPL, the rocks have been folded into a series of similar style anticlines and synclines, parallel to the main Ondundu Anticline, which the main axis plunges to the south. A number of mainly north trending, vertical dykes of Karoo age intruded the area. It seems as if some of the sediments were "baked" along sections of the dykes, possibly providing for increased secondary porosity along these sections (Appendix B).

1.5.5 Hydrogeology

The entire project area is underlain by hard rock aquifers. These hard rock aquifers are characterised by low permeability and storability values. However, the more brittle formations may have very high secondary permeability where fractures and faults intersect these formations. The EPL falls within the Kunene South Groundwater Basin (Figure 7). According to the Specialist Report (Water Science cc, 2010) the landscape is classified as an area of dissection and erosional cutback with undulating to hilly topography. Hills and ridge ranges trend mainly north-south, while river courses, which are dry except during short flood periods, crosses these ranges mainly in a northwesterly direction. The site is located within the catchment of the Ugab River, an ephemeral river, draining in a western direction. A number of small streams intersect the EPL. The upstream catchment area of the streams crossing the EPL is located mainly towards the southeast and the EPL is located relatively near the origin of these streams (Appendix C).

1.5.6 Summary Socioeconomic setting

- The Erongo Region covers an area of 63,586 km², which comprises 7.7 per cent of Namibia's total area of about 823,680 km². The Erongo Region stretches from the Central Plateau westwards across the Central-Western Plains and Escarpment to the Central Namibian coast, roughly over a distance between 200 and 350 km. Northwards the stretches from the Ugab River in the north to the Kuiseb River in the south over a distance of up to 300 km. On the west it is flanked by the Atlantic Ocean.
- According to the National Census, 2011, a total 150,400 people were counted in the Erongo Region, which is 7.1 percent of the total population of Namibia of 2,104,900.
- The Erongo Region counted 44,900 households in 2011 at an average size of 2.6 people per household, while in 2001 the region had 27,496 households at an average size

of 3.8. According to the 2011 Census the population density was 2.1 persons per km², compared to 1.7 persons per km² in 2001.

- In 2001 the Erongo Region had 50,040 females and 57,616 males, or 115 males for every 100 females, growing at an annual rate of 1.3 percent. The fertility rate was 3.2 children per woman. Then 80 percent of the population lived in urban areas while 20 percent lived in rural areas. The figures for 2011 are not available as yet.
- In 2001 by age, 11 percent of the population was under 5 years old, 18 percent between 5-14 years, 64 percent between 15-59 years, and 6 percent 60 years and older.
- The most commonly spoken languages at home in 2001 were Oshiwambo (37 percent of households), Afrikaans (22 percent), and Damara>Nama (21 percent).
- For those 15 years and older, in 2001 the literacy rate was 92 percent. In terms of education, 89 percent of girls and 86 percent of boys between the ages of 6 -15 were attending school, and of those older than 15, 79 percent had left school, 9 percent were currently at school, and 8 percent had never attended.
- The employment rate for the labor force (71 percent of those 15+) was 66 percent employed and 34 percent unemployed. For those 15+ years old and not in the labour force (24 percent), 35 percent were students, 34 percent homemakers, and 31 percent retired.

The EPL falls within the Dâures Constituency, which is the largest constituency in the Erongo Region with an area of 13,490 km². It has a population of approximately 12000 of which the majority depend on communal subsistence farming for their livelihood. The name Dâures is derived from the Khoe Khoegowab name of the Brandberg mountain which is the highest in Namibia. The constituency office is in Okombahe, with additional settlement offices in Uis and Okombahe. Omatjete falls under the other rural residential clusters in the arandis alongside Tubuis and Okongue.

1.5.7 Archaeology, Historical and Cultural Resources

The area surrounding the project site is archaeologically identified as nomadic pastoral land and has historical artefacts located in the in the project area. The northern parts of the Erongo Region have much evidence of post-Pleistocene human occupation, including numerous rock art sites associated with the extensive outcropping granites. Some of these rock art sites located in the Otjohorongo area are specifically related to rainmaking rituals. The importance of these sites and the work of specialist rainmakers are linked to the settlement of the area by OvaHerero pastoralist communities during the second millennium AD (Appendix D).

In the event of an archaeological discovery during exploration works, the procedures outlined in Section 55, Sub-section 4 of the National Heritage Act, No. 27 of 2004, requires that any archaeological or paleontological object or meteorite discovered are reported to the National Heritage Council as soon as practicable.

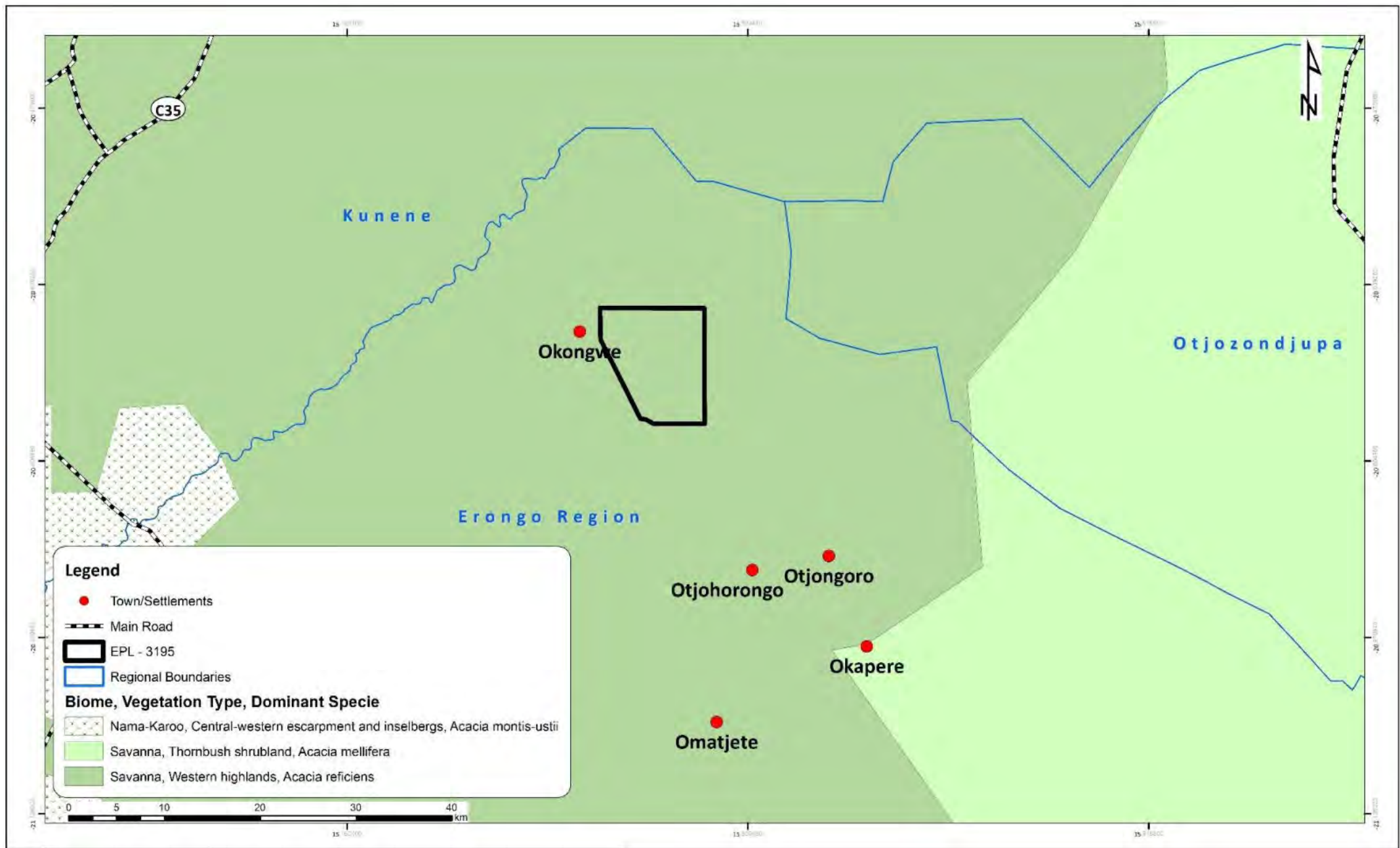


Figure 4: Vegetation map of the EPL 3195

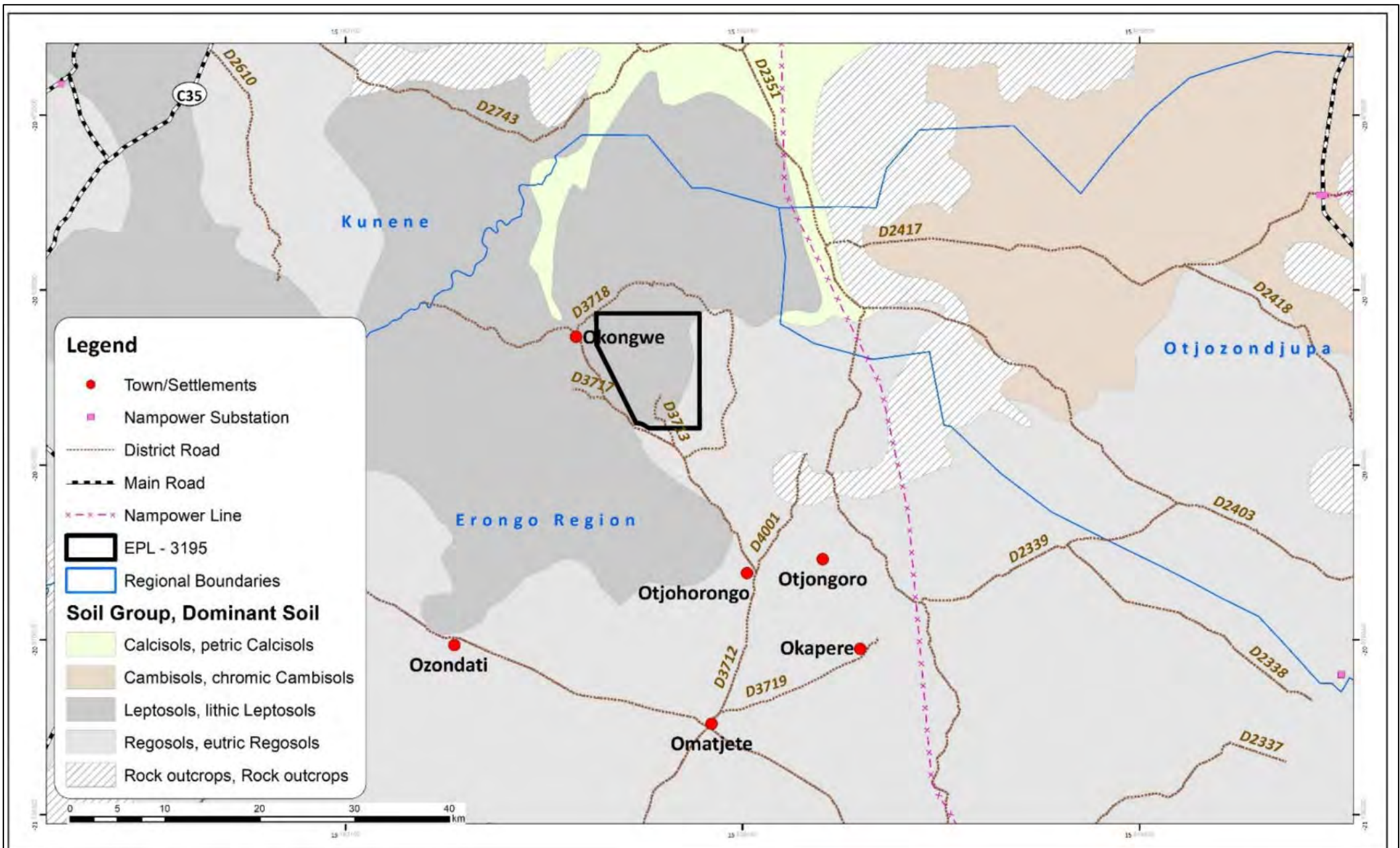


Figure 5: Dominant soil in the EPL 3195

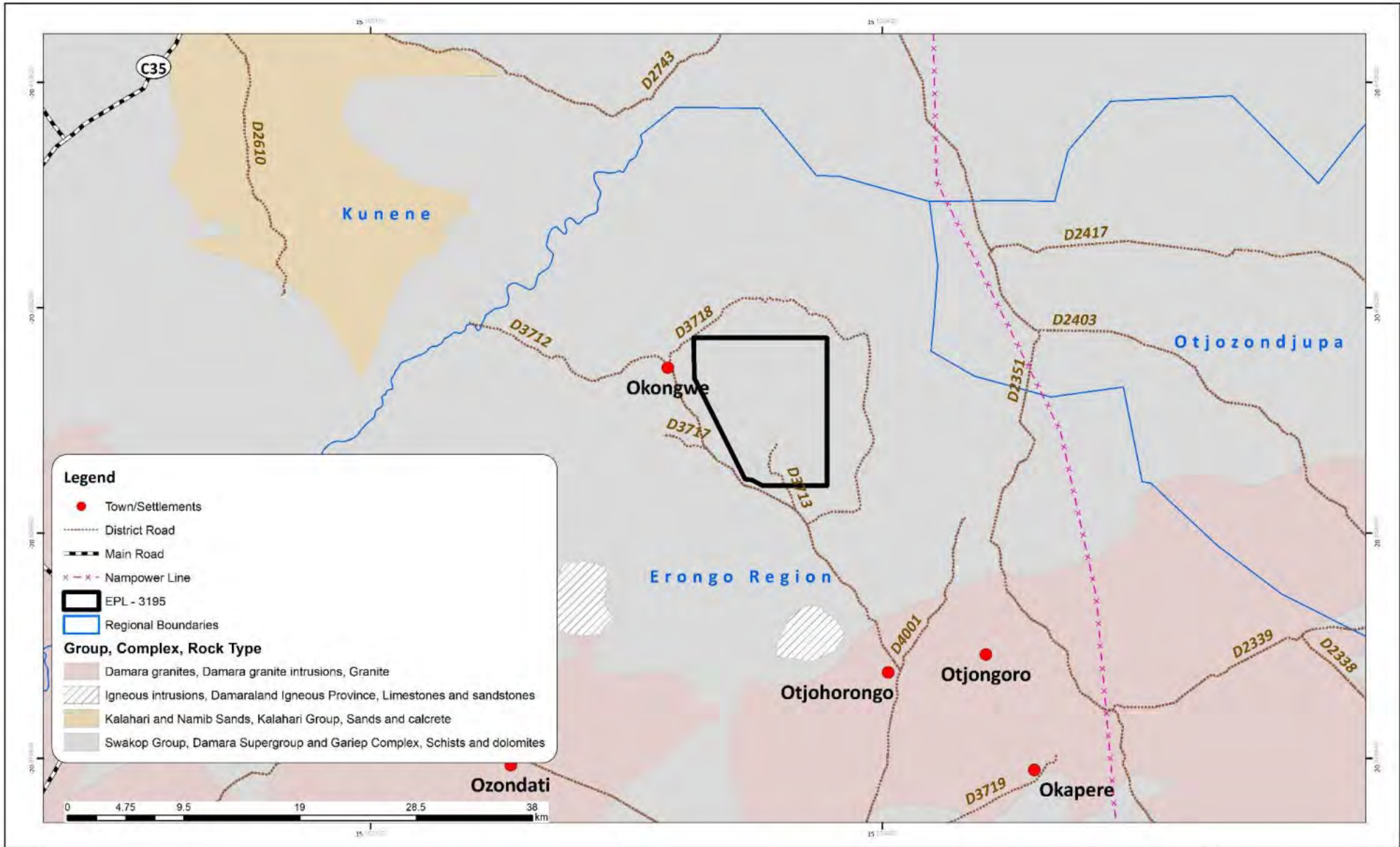


Figure 6: Simplified local geological map of the EPL 3195

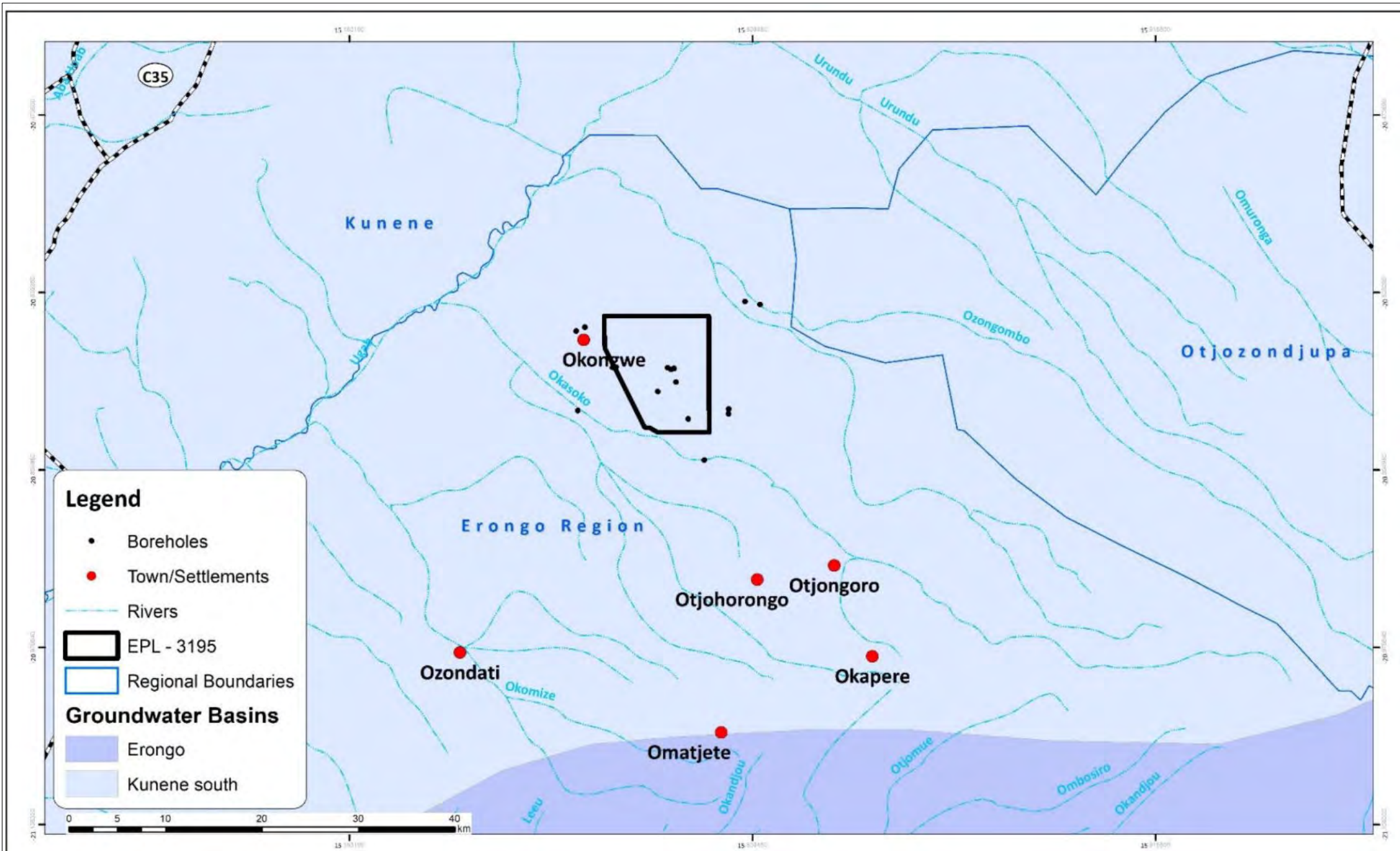


Figure 7: Simplified hydrogeological map of the EPL

2. OBJECTIVES OF THE EMP

2.1 Summary Objectives

This EMP provides a detailed plan of actions required in the implementation of the mitigation measures for minimising and maximising the identified negative and positive impacts respectively. The EMP also provides the management actions with roles and responsibilities requirements for the successful implementation of environmental management strategies by Proponent.

2.2 EMP Management Linkages

The mitigation measures described in this EMP report are based on the impacts assessment results detailed in the EIA Report. The EMP must be continuously updated during the implementation of the proposed project activities and throughout the project lifecycle. This EMP Reports incorporates the provisions of the Namibian Environmental regulations and policies as well as international environmental best practices in mining development, operational, rehabilitation, closure and aftercare activities.

2.3 Summary of Impact Assessment Results

2.3.1 Summary of Impacts Assessment Methodology

The EIA and EMP process used for this project took into considerations the provisions of the Environmental Impact Assessment (EIA) Regulations, 2012 and the Environmental Management Act (EMA), 2007, (Act No. 7 of 2007) as outlined in Figure 8.

The Proponent intends undertake exploration activities covering desktop studies, followed by site-specific activities on targets that may be delineated and using exploration techniques/ methods such as geophysical surveys, geological mapping, trenching, drilling, bulk sampling and test mining. The detailed outline of all the activities associated with each of the exploration stages as sources of potential environmental impacts are outlined in

Table 1.

The impact assessment methodology adopted a two-dimensional matrix approach in predicting the potential impacts of the proposed project on the receiving environment. The two-dimensional matrix consisted of the following cross-referencing (Table 2 - Table 5):

- ❖ The activities linked to the project that could have an impact on the receiving environment, and.
- ❖ The existing environmental and social conditions that could possibly be affected by the project.

The impact assessment considerations included land disturbance/land use impacts. potential impacts to specially designated areas. impacts to soil, water and air resources. impacts to vegetation, wildlife, wildlife habitat, and sensitive species. visual, cultural, paleontological, socioeconomic and potential impacts from hazardous materials are provided in the EIA Report.

2.3.2 Summary of Impact Assessment Results

In order to determine the likely environmental impacts as well as the overall significant impacts of individual sources associated with the proposed exploration activities within the EPL area (

Table 1), an impact identification and assessment process was undertaken as detailed in this report. Details of the impact assessment results, definitions, methodology as well as the baseline \ receiving environment are provided in the EIA Report.

As detailed in the EIA Report, the significant impact identification and assessment processes focused on the evaluation of the influences of the proposed project activities pathways and the likely targets or receptor (receiving environment). In this process, components of the project activities that are likely to impact the natural environment (physical, biological and socioeconomic) were broken down into individual development stages and activities.

The summary of the overall impact and significant impact assessment results as detailed in the EIA Report associated with the proposed activities / sources of potential impacts with respect to the receiving environment that could potentially be affected are presented in Table 2 - Table 6.

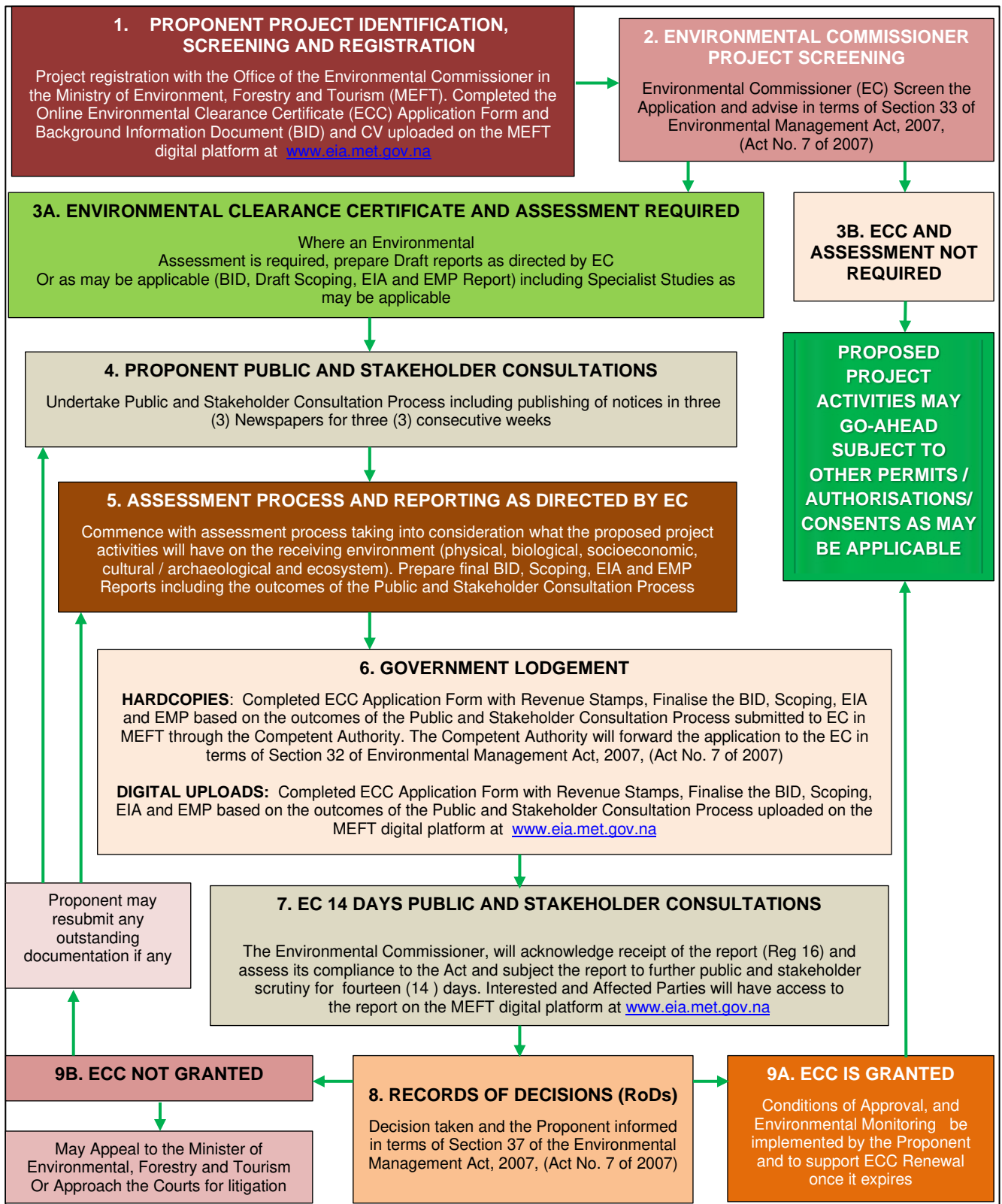


Figure 8: RBS Schematic presentation of Namibia's Environmental Assessment Procedure.

Table 1: Summary of the proposed activities, alternatives and key issues considered during the Environmental Assessment (EA) process covering Scoping, EIA and EMP Processes.

PROJECT ACTIVITIES		ALTERNATIVES CONSIDERED	Key Issues to be Evaluated and Assessed with Environmental Management Plan (EMP) / Mitigation Measures Developed	
1. Project Implementation and Initial Desktop Exploration Activities	Review of existing information and all previous activities in order identify any potential target/s in within the EPL Area	(i) Location for Minerals Occurrence: A number of economic deposits are known to exist in different parts of Namibia and some have been explored by different companies over the years. The proponent intends to explore / prospect for possible economic minerals occurrence in the EPL area as licensed. Minerals occurrence is linked to the geology or local rock outcrops and site-specific.	Potential land use conflicts / opportunities for coexistence between proposed exploration and other existing land uses such as conservation, tourism and agriculture	
2. Regional Reconnaissance Field-Based	Regional mapping and sampling to identify and verify potential targeted areas based on the recommendations of the desktop work undertaken under (1) above		PHYSICAL ENVIRONMENT	<ul style="list-style-type: none"> • Water Quality • Physical infrastructure and Resources • Air quality, • Noise and dust
3. Initial Local Field-Based Activities	May include: Widely spaced geological mapping, sampling, surveying and possible trenching and drilling in order to determine the viability of any delineated local target/s			BIOLOGICAL ENVIRONMENT
4. Detailed Local Field-Based Activities on Delineated Targets If Any	Following the delineation of potential target/s, conduct detailed mapping, trenching, sampling, surveying and drilling in order to determine the viability of the project.		SOCIOECONOMIC, CULTURAL AND ARCHAEOLOGICAL ENVIRONMENT	
5. Prefeasibility and Feasibility Studies	Assess the viability of any delineated local target/s and more detailed mapping, trenching, bulk sampling, drilling and test mining activities where applicable. If the project proves viable, a feasibility report and application for Mining License will be undertaken.			(ii) Other Alternative Land Uses: Game farming, tourism and agriculture (iii) Ecosystem Function (What the Ecosystem Does. (iv) Ecosystem Services. (v) Use Values. (vi) Non-Use, or Passive Use. (vii) The No-Action Alternative (viii) Others to be identified during the public consultation process and preparation of the EIA and EMP Reports

Table 2: Results of the sensitivity assessment of the receptors (Physical, Socioeconomic and Biological environments) with respect to the proposed exploration / prospecting activities.

RECEPTOR SENSITIVITY		PHYSICAL ENVIRONMENT						BIOLOGICAL ENVIRONMENT					SOCIOECONOMIC, CULTURAL AND ARCHAEOLOGICAL ENVIRONMENT						
SENSITIVITY RATING		CRITERIA		Water Quality	Physical infrastructure and Resources	Air Quality, Noise and Dust	Landscape Topography	Soil Quality	Climate Change Influences	Habitat	Protected Areas	Flora	Fauna	Ecosystem functions, services, use values and non-Use or passive use	Local, regional and national socioeconomic settings	Commercial Agriculture	Community Protected Areas	Tourism and Recreation	Cultural, Biological and Archaeological Resources
1	Negligible	The receptor or resource is resistant to change or is of little environmental value.																	
2	Low	The receptor or resource is tolerant of change without detriment to its character, is of low environmental or social value, or is of local importance.																	
3	Medium	The receptor or resource has low capacity to absorb change without fundamentally altering its present character, is of high environmental or social value, or is of national importance.																	
4	High	The receptor or resource has moderate capacity to absorb change without significantly altering its present character, has some environmental or social value, or is of district/regional importance.																	
5	Very High	The receptor or resource has little or no capacity to absorb change without fundamentally altering its present character, is of very high environmental or social value, or is of international importance.																	
Initial Desktop Exploration Activities	General evaluation of satellite, topographic, land tenure, accessibility, supporting infrastructures and socioeconomic environment data	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Purchase and analysis of existing Government high resolution magnetic and radiometric geophysical data	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Purchase and analysis of existing Government aerial hyperspectral	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Data interpretation and delineating of potential targets for future reconnaissance regional field-based activities for delineated targets	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Regional Reconnaissance Field-Based Activities	Regional geological, geochemical, topographical and remote sensing mapping and data analysis	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Regional geochemical sampling aimed at identifying possible targeted based on the results of the initial exploration and regional geological, topographical and remote sensing mapping and analysis undertaken	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Regional geological mapping aimed at identifying possible targeted based on the results of the initial exploration and	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

RECEPTOR SENSITIVITY		PHYSICAL ENVIRONMENT						BIOLOGICAL ENVIRONMENT					SOCIOECONOMIC, CULTURAL AND ARCHAEOLOGICAL ENVIRONMENT						
SENSITIVITY RATING		CRITERIA		Water Quality	Physical infrastructure and Resources	Air Quality, Noise and Dust	Landscape Topography	Soil Quality	Climate Change Influences	Habitat	Protected Areas	Flora	Fauna	Ecosystem functions, services, use values and non-Use or passive use	Local, regional and national socioeconomic settings	Commercial Agriculture	Community Protected Areas	Tourism and Recreation	Cultural, Biological and Archaeological Resources
1	Negligible	The receptor or resource is resistant to change or is of little environmental value.																	
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5	Very High	The receptor or resource has little or no capacity to absorb change without fundamentally altering its present character, is of very high environmental or social value, or is of international importance.																	
	regional geological, topographical and remote sensing mapping and analysis undertaken																		
	Limited field-based support and logistical activities including exploration camp site lasting between one (1) to two (2) days	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Laboratory analysis of the samples collected and interpretation of the results and delineating of potential targets for future detailed site-specific exploration if the results are positive and supports further exploration of the delineated targets	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Initial Local Field-Based Activities	Local geochemical sampling aimed at verifying the prospectivity of the target/s delineated during regional reconnaissance field activities	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Local geological mapping aimed at identifying possible targeted based on the results of the regional geological and analysis undertaken	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Ground geophysical survey (Subject to the positive outcomes of i and ii above)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Possible Trenching (Subject to the outcomes of i - iii above)	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	Field-based support and logistical activities will be very limited focus on a site-specific area for a very short time (maximum five (5) days)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Laboratory analysis of the samples collected and interpretation of the results and delineating of potential targets	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

RECEPTOR SENSITIVITY			PHYSICAL ENVIRONMENT						BIOLOGICAL ENVIRONMENT					SOCIOECONOMIC, CULTURAL AND ARCHAEOLOGICAL ENVIRONMENT				
SENSITIVITY RATING		CRITERIA	Water Quality	Physical infrastructure and Resources	Air Quality, Noise and Dust	Landscape Topography	Soil Quality	Climate Change Influences	Habitat	Protected Areas	Flora	Fauna	Ecosystem functions, services, use values and non-Use or passive use	Local, regional and national socioeconomic settings	Commercial Agriculture	Community Protected Areas	Tourism and Recreation	Cultural, Biological and Archaeological Resources
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5	Very High	The receptor or resource has little or no capacity to absorb change without fundamentally altering its present character, is of very high environmental or social value, or is of international importance.																
Detailed Local Field-Based Activities	Access preparation and related logistics to support activities		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	Local geochemical sampling aimed at verifying the prospectivity of the target/s delineated during the initial field-based activities		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	Local geological mapping aimed at identifying possible targeted based on the results of the regional geological and analysis undertaken		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	Ground geophysical survey, trenching, drilling and sampling (Subject to the positive outcomes of i and ii above).		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Prefeasibility and Feasibility Studies	Detailed site-specific field-based support and logistical activities, surveys, detailed geological mapping		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	Detailed drilling and bulk sampling and testing for ore reserve calculations		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	Geotechnical studies for mine design		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	Mine planning and designs including all supporting infrastructures (water, energy and access) and test mining activities		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	EIA and EMP to support the ECC for mining operations		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Preparation of feasibility report and application for Mining License		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Table 3: Results of the scored time (duration) over which the impact is expected to last.

RECEPTOR SENSITIVITY		PHYSICAL ENVIRONMENT						BIOLOGICAL ENVIRONMENT					SOCIOECONOMIC, CULTURAL AND ARCHAEOLOGICAL ENVIRONMENT										
		Water Quality	Physical infrastructure and Resources	Air Quality, Noise and Dust	Landscape Topography	Soil Quality	Climate Change Influences	Habitat	Protected Areas	Flora	Fauna	Ecosystem functions, services, use values and non-Use or passive use	Local, regional and national socioeconomic settings	Commercial Agriculture	Community Protected Areas	Tourism and Recreation	Cultural, Biological and Archaeological Resources						
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SCALE	DESCRIPTION																						
T	Temporary																						
P	Permanent																						
Initial Desktop Exploration Activities	General evaluation of satellite, topographic, land tenure, accessibility, supporting infrastructures and socioeconomic environment data	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T						
	Purchase and analysis of existing Government high resolution magnetics and radiometric geophysical data	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T						
	Purchase and analysis of existing Government aerial hyperspectral	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T						
	Data interpretation and delineating of potential targets for future reconnaissance regional field-based activities for delineated targets	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T						
Regional Reconnaissance Field-Based Activities	Regional geological, geochemical, topographical and remote sensing mapping and data analysis	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T						
	Regional geochemical sampling aimed at identifying possible targeted based on the results of the initial exploration and regional geological, topographical and remote sensing mapping and analysis undertaken	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T						
	Regional geological mapping aimed at identifying possible targeted based on the results of the initial exploration and regional geological, topographical and remote sensing mapping and analysis undertaken	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T						
	Limited field-based support and logistical activities including exploration camp site lasting between one (1) to two (2) days	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T						

RECEPTOR SENSITIVITY		PHYSICAL ENVIRONMENT						BIOLOGICAL ENVIRONMENT					SOCIOECONOMIC, CULTURAL AND ARCHAEOLOGICAL ENVIRONMENT										
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SCALE	DESCRIPTION																						
T	Temporary																						
P	Permanent																						
	Laboratory analysis of the samples collected and interpretation of the results and delineating of potential targets for future detailed site-specific exploration if the results are positive and supports further exploration of the delineated targets	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T						
Initial Local Field-Based Activities	Local geochemical sampling aimed at verifying the prospectivity of the target/s delineated during regional reconnaissance field activities	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T						
	Local geological mapping aimed at identifying possible targeted based on the results of the regional geological and analysis undertaken	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T						
	Ground geophysical survey (Subject to the positive outcomes of i and ii above)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T						
	Possible Trenching (Subject to the outcomes of i - iii above)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T						
	Field-based support and logistical activities will be very limited focus on a site-specific area for a very short time (maximum five (5) days)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T						
	Laboratory analysis of the samples collected and interpretation of the results and delineating of potential targets	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T						
Detailed Local Field-Based Activities	Access preparation and related logistics to support activities	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T						
	Local geochemical sampling aimed at verifying the prospectivity of the target/s delineated during the initial field-based activities	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T						
	Local geological mapping aimed at identifying possible targeted based on the results of the regional geological and analysis undertaken	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T						

RECEPTOR SENSITIVITY		PHYSICAL ENVIRONMENT						BIOLOGICAL ENVIRONMENT					SOCIOECONOMIC, CULTURAL AND ARCHAEOLOGICAL ENVIRONMENT										
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SCALE	DESCRIPTION																						
T	Temporary																						
P	Permanent																						
	Ground geophysical survey, trenching, drilling and sampling (Subject to the positive outcomes of i and ii above).	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T						
Prefeasibility and Feasibility Studies	Detailed site-specific field-based support and logistical activities, surveys, detailed geological mapping	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T						
	Detailed drilling and bulk sampling and testing for ore reserve calculations	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T						
	Geotechnical studies for mine design	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T						
	Mine planning and designs including all supporting infrastructures (water, energy and access) and test mining activities	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T						
	EIA and EMP to support the ECC for mining operations	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T						
	Preparation of feasibility report and application for Mining License	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T						

Table 4: Results of the scored geographical extent of the induced change.

GEOGRAPHICAL EXTENT OF IMPACT		PHYSICAL ENVIRONMENT						BIOLOGICAL ENVIRONMENT					SOCIOECONOMIC, CULTURAL AND ARCHAEOLOGICAL ENVIRONMENT																
		Water Quality	Physical infrastructure and Resources	Air Quality, Noise and Dust	Landscape Topography	Soil Quality	Climate Change Influences	Habitat	Protected Areas	Flora	Fauna	Ecosystem functions, services, use values and non-Use or passive use	Local, regional and national socioeconomic settings	Commercial Agriculture	Community Protected Areas	Tourism and Recreation	Cultural, Biological and Archaeological Resources												
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N	impact of national character																												
M	impact of cross-border character																												
Initial Desktop Exploration Activities	General evaluation of satellite, topographic, land tenure, accessibility, supporting infrastructures and socioeconomic environment data	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												
	Purchase and analysis of existing Government high resolution magnetics and radiometric geophysical data	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												
	Purchase and analysis of existing Government aerial hyperspectral	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												
	Data interpretation and delineating of potential targets for future reconnaissance regional field-based activities for delineated targets	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												
Regional Reconnaissance Field-Based Activities	Regional geological, geochemical, topographical and remote sensing mapping and data analysis	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												
	Regional geochemical sampling aimed at identifying possible targeted based on the results of the initial exploration and regional geological, topographical and remote sensing mapping and analysis undertaken	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												
	Regional geological mapping aimed at identifying possible targeted based on the results of the initial exploration and regional geological, topographical and remote sensing mapping and analysis undertaken	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												
	Limited field-based support and logistical activities including exploration camp site lasting between one (1) to two (2) days	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												

GEOGRAPHICAL EXTENT OF IMPACT		PHYSICAL ENVIRONMENT						BIOLOGICAL ENVIRONMENT					SOCIOECONOMIC, CULTURAL AND ARCHAEOLOGICAL ENVIRONMENT																
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Initial Local Field-Based Activities	Local geochemical sampling aimed at verifying the prospectivity of the target/s delineated during regional reconnaissance field activities	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												
	Local geological mapping aimed at identifying possible targeted based on the results of the regional geological and analysis undertaken	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												
	Ground geophysical survey (Subject to the positive outcomes of i and ii above)	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												
	Possible Trenching (Subject to the outcomes of i - iii above)	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												
	Field-based support and logistical activities will be very limited focus on a site-specific area for a very short time (maximum five (5) days)	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												
	Laboratory analysis of the samples collected and interpretation of the results and delineating of potential targets	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												
Detailed Local Field-Based Activities	Access preparation and related logistics to support activities	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												
	Local geochemical sampling aimed at verifying the prospectivity of the target/s delineated during the initial field-based activities	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												

GEOGRAPHICAL EXTENT OF IMPACT		PHYSICAL ENVIRONMENT						BIOLOGICAL ENVIRONMENT					SOCIOECONOMIC, CULTURAL AND ARCHAEOLOGICAL ENVIRONMENT																
<table border="1"> <thead> <tr> <th>SCALE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>limited impact on location</td> </tr> <tr> <td>O</td> <td>impact of importance for municipality</td> </tr> <tr> <td>R</td> <td>impact of regional character</td> </tr> <tr> <td>N</td> <td>impact of national character</td> </tr> <tr> <td>M</td> <td>impact of cross-border character</td> </tr> </tbody> </table>		SCALE	DESCRIPTION	L	limited impact on location	O	impact of importance for municipality	R	impact of regional character	N	impact of national character	M	impact of cross-border character	Water Quality	Physical infrastructure and Resources	Air Quality, Noise and Dust	Landscape Topography	Soil Quality	Climate Change Influences	Habitat	Protected Areas	Flora	Fauna	Ecosystem functions, services, use values and non-Use or passive use	Local, regional and national socioeconomic settings	Commercial Agriculture	Community Protected Areas	Tourism and Recreation	Cultural, Biological and Archaeological Resources
SCALE	DESCRIPTION																												
L	limited impact on location																												
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R	impact of regional character																												
N	impact of national character																												
M	impact of cross-border character																												
	Local geological mapping aimed at identifying possible targeted based on the results of the regional geological and analysis undertaken	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												
	Ground geophysical survey, trenching, drilling and sampling (Subject to the positive outcomes of i and ii above).	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												
Detailed Local Field-Based Activities	Access preparation and related logistics to support activities	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												
	Local geochemical sampling aimed at verifying the prospectivity of the target/s delineated during the initial field-based activities	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												
	Local geological mapping aimed at identifying possible targeted based on the results of the regional geological and analysis undertaken	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												
	Ground geophysical survey, trenching, drilling and sampling (Subject to the positive outcomes of i and ii above).	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												
Prefeasibility and Feasibility Studies	Detailed site-specific field-based support and logistical activities, surveys, detailed geological mapping	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												
	Detailed drilling and bulk sampling and testing for ore reserve calculations	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												
	Geotechnical studies for mine design	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												
	Mine planning and designs including all supporting infrastructures (water, energy and access) and test mining activities	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												
	EIA and EMP to support the ECC for mining operations	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												

GEOGRAPHICAL EXTENT OF IMPACT		PHYSICAL ENVIRONMENT						BIOLOGICAL ENVIRONMENT				SOCIOECONOMIC, CULTURAL AND ARCHAEOLOGICAL ENVIRONMENT																	
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O	impact of importance for municipality																												
R	impact of regional character																												
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M	impact of cross-border character																												
	Preparation of feasibility report and application for Mining License	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L												

Table 5: Results of the qualitative scale of probability occurrence.

IMPACT PROBABILITY OCCURRENCE		PHYSICAL ENVIRONMENT						BIOLOGICAL ENVIRONMENT					SOCIOECONOMIC, CULTURAL AND ARCHAEOLOGICAL ENVIRONMENT																
<table border="1"> <thead> <tr> <th>SCALE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Extremely unlikely (e.g. never heard of in the industry)</td> </tr> <tr> <td>B</td> <td>Unlikely (e.g. heard of in the industry but considered unlikely)</td> </tr> <tr> <td>C</td> <td>Low likelihood (egg such incidents/impacts have occurred but are uncommon)</td> </tr> <tr> <td>D</td> <td>Medium likelihood (e.g. such incidents/impacts occur several times per year within the industry)</td> </tr> <tr> <td>E</td> <td>High likelihood (e.g. such incidents/impacts occurs several times per year at each location where such works are undertaken)</td> </tr> </tbody> </table>		SCALE	DESCRIPTION	A	Extremely unlikely (e.g. never heard of in the industry)	B	Unlikely (e.g. heard of in the industry but considered unlikely)	C	Low likelihood (egg such incidents/impacts have occurred but are uncommon)	D	Medium likelihood (e.g. such incidents/impacts occur several times per year within the industry)	E	High likelihood (e.g. such incidents/impacts occurs several times per year at each location where such works are undertaken)	Water Quality	Physical infrastructure and Resources	Air Quality, Noise and Dust	Landscape Topography	Soil Quality	Climate Change Influences	Habitat	Protected Areas	Flora	Fauna	Ecosystem functions, services, use values and non-Use or passive use	Local, regional and national socioeconomic settings	Commercial Agriculture	Community Protected Areas	Tourism and Recreation	Cultural, Biological and Archaeological Resources
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Initial Desktop Exploration Activities	General evaluation of satellite, topographic, land tenure, accessibility, supporting infrastructures and socioeconomic environment data	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A												
	Purchase and analysis of existing Government high resolution magnetics and radiometric geophysical data	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A												
	Purchase and analysis of existing Government aerial hyperspectral	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A												
	Data interpretation and delineating of potential targets for future reconnaissance regional field-based activities for delineated targets	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A												
Regional Reconnaissance Field-Based Activities	Regional geological, geochemical, topographical and remote sensing mapping and data analysis	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A												
	Regional geochemical sampling aimed at identifying possible targeted based on the results of the initial exploration and regional geological, topographical and remote sensing mapping and analysis undertaken	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A												
	Regional geological mapping aimed at identifying possible targeted based on the results of the initial exploration and regional geological, topographical and remote sensing mapping and analysis undertaken	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A												
	Limited field-based support and logistical activities including exploration camp site lasting between one (1) to two (2) days	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B												

IMPACT PROBABILITY OCCURRENCE		PHYSICAL ENVIRONMENT					BIOLOGICAL ENVIRONMENT					SOCIOECONOMIC, CULTURAL AND ARCHAEOLOGICAL ENVIRONMENT																	
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	Laboratory analysis of the samples collected and interpretation of the results and delineating of potential targets for future detailed site-specific exploration if the results are positive and supports further exploration of the delineated targets	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A												
Initial Local Field-Based Activities	Local geochemical sampling aimed at verifying the prospectivity of the target/s delineated during regional reconnaissance field activities	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A												
	Local geological mapping aimed at identifying possible targeted based on the results of the regional geological and analysis undertaken	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B												
	Ground geophysical survey (Subject to the positive outcomes of i and ii above)	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B												
	Possible Trenching (Subject to the outcomes of i - iii above)	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B												
	Field-based support and logistical activities will be very limited focus on a site-specific area for a very short time (maximum five (5) days)	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B												
	Laboratory analysis of the samples collected and interpretation of the results and delineating of potential targets	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A												
Detailed Local Field-Based Activities	Access preparation and related logistics to support activities	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A												
	Local geochemical sampling aimed at verifying the prospectivity of the target/s delineated during the initial field-based activities	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C												
	Local geological mapping aimed at identifying possible targeted based on the results of the regional geological and analysis undertaken	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C												

IMPACT PROBABILITY OCCURRENCE		PHYSICAL ENVIRONMENT						BIOLOGICAL ENVIRONMENT					SOCIOECONOMIC, CULTURAL AND ARCHAEOLOGICAL ENVIRONMENT																
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	Ground geophysical survey, trenching, drilling and sampling (Subject to the positive outcomes of i and ii above).	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C												
Prefeasibility and Feasibility Studies	Detailed site-specific field-based support and logistical activities, surveys, detailed geological mapping	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C												
	Detailed drilling and bulk sampling and testing for ore reserve calculations	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C												
	Geotechnical studies for mine design	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C												
	Mine planning and designs including all supporting infrastructures (water, energy and access) and test mining activities	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C												
	EIA and EMP to support the ECC for mining operations	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A												
	Preparation of feasibility report and application for Mining License	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A												

Table 6: Significant impact assessment matrix for the proposed exploration activities.

SIGNIFICANT IMPACT						PHYSICAL ENVIRONMENT						BIOLOGICAL ENVIRONMENT					SOCIOECONOMIC, CULTURAL AND ARCHAEOLOGICAL ENVIRONMENT																			
IMPACT SEVERITY [Magnitude, Duration, Extent, Probability]	RECEPTOR CHARACTERISTICS (SENSITIVITY)					Water Quality	Physical infrastructure and Resources	Air Quality, Noise and Dust	Landscape Topography	Soil Quality	Climate Change Influences	Habitat	Protected Areas	Flora	Fauna	Ecosystem functions, services, use values and non-Use or passive use	Local, regional and national socioeconomic settings	Commercial Agriculture	Community Protected Areas	Tourism and Recreation	Cultural, Biological and Archaeological Resources															
	Very High (5)	High(4)	Medium (3)	Low (2)	Negligible (1)																															
Very High (5)	Major [5/5]	Major [4/5]	Moderate [3/5]	Moderate [2 /5]	Minor 1/5																															
High (4)	Major [5/4]	Major [4/4]	Moderate [3/4]	Moderate [2/4]	Minor[1/4]																															
Medium (3)	Major [5/3]	Moderate[4/3]	Moderate[3/3]	Minor[2/3]	None[1/3]																															
Low (2)	Moderate [5/2]	Moderate[4/2]	Minor[3/2]	None[2/2]	None[1/2]																															
Negligible (1)	Minor [5/1]	Minor [4/1]	None [3/1]	None [2/1]	None [1/1]																															
Initial Desktop Exploration Activities	General evaluation of satellite, topographic, land tenure, accessibility, supporting infrastructures and socioeconomic environment data					1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1																
	Purchase and analysis of existing Government high resolution magnetics and radiometric geophysical data					1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1																
	Purchase and analysis of existing Government aerial hyperspectral					1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1																
	Data interpretation and delineating of potential targets for future reconnaissance regional field-based activities for delineated targets					1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1																
Regional Reconnaissance Field-Based Activities	Regional geological, geochemical, topographical and remote sensing mapping and data analysis					1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1																
	Regional geochemical sampling aimed at identifying possible targeted based on the results of the initial exploration and regional geological, topographical and remote sensing mapping and analysis undertaken					1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1																
	Regional geological mapping aimed at identifying possible targeted based on the results of the initial exploration and regional geological, topographical and remote sensing mapping and analysis undertaken					1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1																
	Limited field-based support and logistical activities including exploration camp site lasting between one (1) to two (2) days					1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1																

SIGNIFICANT IMPACT						PHYSICAL ENVIRONMENT						BIOLOGICAL ENVIRONMENT					SOCIOECONOMIC, CULTURAL AND ARCHAEOLOGICAL ENVIRONMENT					
IMPACT SEVERITY [Magnitude, Duration, Extent, Probability]	RECEPTOR CHARACTERISTICS (SENSITIVITY)					Water Quality	Physical infrastructure and Resources	Air Quality, Noise and Dust	Landscape Topography	Soil Quality	Climate Change Influences	Habitat	Protected Areas	Flora	Fauna	Ecosystem functions, services, use values and non-use or passive use	Local, regional and national socioeconomic settings	Commercial Agriculture	Community Protected Areas	Tourism and Recreation	Cultural, Biological and Archaeological Resources	
	Very High (5)	High(4)	Medium (3)	Low (2)	Negligible (1)																	
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Negligible (1)	Minor [5/1]	Minor [4/1]	None [3/1]	None [2/1]	None [1/1]																	
	Laboratory analysis of the samples collected and interpretation of the results and delineating of potential targets for future detailed site-specific exploration if the results are positive and supports further exploration of the delineated targets					1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1		
Initial Local Field-Based Activities	Local geochemical sampling aimed at verifying the prospectivity of the target/s delineated during regional reconnaissance field activities					1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1		
	Local geological mapping aimed at identifying possible targeted based on the results of the regional geological and analysis undertaken					1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	
	Ground geophysical survey (Subject to the positive outcomes of i and ii above)					2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	
	Possible Trenching (Subject to the outcomes of i - iii above)					2/2	2/2	3/2	3/2	2/2	2/2	3/2	3/2	3/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2
	Field-based support and logistical activities will be very limited focus on a site-specific area for a very short time (maximum five (5) days)					2/2	2/2	2/2	2/2	2/2	2/2	3/2	3/2	3/2	3/2	3/2	2/2	2/2	2/2	2/2	2/2	2/2
	Laboratory analysis of the samples collected and interpretation of the results and delineating of potential targets					1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	
Detailed Local Field-Based Activities	Access preparation and related logistics to support activities					2/2	2/2	2/2	2/2	2/2	2/2	3/2	3/2	3/2	3/2	3/2	2/2	2/2	2/2	2/2	2/2	
	Local geochemical sampling aimed at verifying the prospectivity of the target/s delineated during the initial field-based activities					2/2	2/2	2/2	2/2	2/2	2/2	3/2	3/2	3/2	3/2	3/2	2/2	2/2	2/2	2/2	2/2	2/2
	Local geological mapping aimed at identifying possible targeted based on the results of the regional geological and analysis undertaken					2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2

SIGNIFICANT IMPACT						PHYSICAL ENVIRONMENT						BIOLOGICAL ENVIRONMENT				SOCIOECONOMIC, CULTURAL AND ARCHAEOLOGICAL ENVIRONMENT							
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	Very High (5)	High(4)	Medium (3)	Low (2)	Negligible (1)																		
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Negligible (1)	Minor [5/1]	Minor [4/1]	None [3/1]	None [2/1]	None [1/1]																		
	Ground geophysical survey, trenching, drilling and sampling (Subject to the positive outcomes of i and ii above).					2\2	2\2	2\2	2\2	2\2	2\2	3\2	3\2	3\2	3\2	3\2	2\2	2\2	2\2	2\2	2\2		
Prefeasibility and Feasibility Studies	Detailed site-specific field-based support and logistical activities, surveys, detailed geological mapping					2\2	2\2	2\2	2\2	2\2	2\2	2\2	2\2	2\2	2\2	2\2	2\2	2\2	2\2	2\2	2\2		
	Detailed drilling and bulk sampling and testing for ore reserve calculations					3\3	3\3	3\3	3\3	3\3	3\3	3\3	3\3	3\3	3\3	3\3	3\3	3\3	3\3	3\3	3\3	3\3	
	Geotechnical studies for mine design					2\2	2\2	2\2	2\2	2\2	2\2	2\2	2\2	2\2	2\2	2\2	2\2	2\2	2\2	2\2	2\2	2\2	
	Mine planning and designs including all supporting infrastructures (water, energy and access) and test mining activities					3\3	3\3	3\3	3\3	3\3	3\3	3\3	3\3	3\3	3\3	3\3	3\3	3\3	3\3	3\3	3\3	3\3	3\3
	EIA and EMP to support the ECC for mining operations					1\1	1\1	1\1	1\1	1\1	1\1	1\1	1\1	1\1	1\1	1\1	1\1	1\1	1\1	1\1	1\1	1\1	1\1
	Preparation of feasibility report and application for Mining License					1\1	1\1	1\1	1\1	1\1	1\1	1\1	1\1	1\1	1\1	1\1	1\1	1\1	1\1	1\1	1\1	1\1	1\1

2.4 Implementation of the EMP

2.4.1 Roles and Responsibilities

Management of the environmental elements that may be affected by the different activities of the proposed / ongoing exploration is an important element of the proposed / ongoing exploration activities. The EMP also identifies the activity groups / environmental elements, the aspects / targets, the indicators, the schedule for implementation and who should be responsible for the management to prevent major impacts that the different exploration activities may have on the receiving environment (physical and biological environments).

2.4.2 Proponent's Representative (PR) / Project Manager (PM)

The Proponent is to appoint a Proponent's Representative (PR) / Project Manager (PM) with the following responsibilities with respect to the EMP implementation:

- ❖ Act as the site project manager and implementing agent.
- ❖ Ensure that the Proponent's responsibilities are executed in compliance with the relevant legislation.
- ❖ Ensure that all the necessary environmental authorizations and permits have been obtained.
- ❖ Assist the exploration contractor/s in finding environmentally responsible solutions to challenges that may arise.
- ❖ Should the PR be of the opinion that a serious threat to, or impact on the environment may be caused by the exploration activities, he/she may stop work. The Proponent must be informed of the reasons for the stoppage as soon as possible.
- ❖ The PR has the authority to conduct disciplinary proceedings in accordance with the company policies and national legislation requirements and provisions for transgressions of basic conduct rules and/or contravention of the EMP.
- ❖ Should the Contractor or his/her employees fail to show adequate consideration for the environmental aspects related to the EMP, the PR can have person(s) and/or equipment removed from the site or work suspended until the matter is remedied.
- ❖ Maintain open and direct lines of communication between the landowners and Proponent, as well as any other identified Interested and Affected Parties (I&APs) with regards to environmental matters, and.
- ❖ Attend regular site meetings and inspections as may be required for the proposed / ongoing exploration programme.

2.4.3 Project Health, Safety and Environment (Project HSE)

The Proponent is to appoint a Project Health, Safety and Environment (Project HSE) with the following responsibilities with respect to the EMP implementation:

- ❖ Assist the PR in ensuring that the necessary environmental authorizations and permits have been obtained.
- ❖ Assist the PR and Contractor in finding environmentally responsible solutions to challenges that may arise.
- ❖ Conduct environmental monitoring as per EMP requirements.
- ❖ Carry out regular site inspections (on average once per week) of all exploration areas with regards to compliance with the EMP. report any non-compliance(s) to the PR as soon as possible.
- ❖ Organize for an independent internal audit on the implementation of and compliance to the EMP to be carried out half way through each field-based exploration activity. audit reports to be submitted to the PR.
- ❖ Continuously review the EMP and recommend additions and/or changes to the EMP document.
- ❖ Monitor the Contractor's environmental awareness training.
- ❖ Keep records of all activities related to environmental control and monitoring. the latter to include a photographic record of the exploration activities, rehabilitation process, and a register of all major incidents, and.
- ❖ Attend regular site meetings.

2.4.4 Contractors and Subcontractors

The responsibilities of the Contractors and Subcontractors that may be appointed by the Proponent to undertake certain field-based activities of the proposed / ongoing exploration programme include:

- ❖ Comply with the relevant legislation and the EMP provision.
- ❖ Preparation and submission to the Proponent through the Project HSE of the following Management Plans:
 - Environmental awareness training and inductions.
 - Emergency preparedness and response.
 - Waste management, and.
 - Health and safety.
- ❖ Ensure adequate environmental awareness training for senior site personnel.
- ❖ Environmental awareness presentations (inductions) to be given to all site personnel prior to work commencement. the Project HSE is to provide the course content and the following topics, at least but not limited to, should be covered:

- The importance of complying with the EMP provisions.
- Roles and responsibilities, including emergency preparedness.
- Basic rules of conduct (do's and don'ts).
- EMP: aspects, impacts and mitigation.
- Conduct disciplinary proceedings in accordance with the company policies and national legislation requirements and provisions for transgressions for failure to adhere to the EMP, and.
- Health and safety requirements.
- ❖ Record keeping of all environmental awareness training and induction presentations, and.
- ❖ Attend regular site meetings and environmental inspections.

3. EMP MITIGATION MEASURES

3.1 Hierarchy of Mitigation Measures Implementation

A hierarchy of methods for mitigating significant adverse effects has been adopted in order of preference and as follows:

- ❖ Enhancement, e.g. provision of new habitats.
- ❖ Avoidance, e.g. sensitive design to avoid effects on ecological receptors.
- ❖ Reduction, e.g. limitation of effects on receptors through design changes, and.
- ❖ Compensation, e.g. community benefits.

3.2 Mitigation Measures Implementation

The Environmental Management Plan (EMP) provides a detailed plan of action required in the implementation of the mitigation measures for minimising and maximising the identified negative and positive impacts respectively.

The EMP also provides the management actions with roles and responsibilities requirements for implementation of environmental management strategies by the Proponent through the Contractors and Subcontractors who will be undertaking the exploration activities.

The EMP gives commitments including financial and human resources provisions for effective management of the likely environmental liabilities during and after the implementation of the proposed / ongoing exploration programme.

Based on the findings of the EIA, key mitigation measures as detailed in **Error! Reference source not found.** have been prepared to be implemented by the Proponent with respect to the proposed / ongoing exploration programme activities and in particular for the field-based exploration activities. The following is the summary of the key areas of the migration measures provided in **Error! Reference source not found.**:

1. Project planning and implementation.
2. Implementation of the EMP.
3. Public and stakeholders relations.
4. Measures to enhance positive socioeconomic impacts.
5. Environmental awareness briefing and training.
6. Erection of supporting exploration infrastructure.
7. Use of existing access roads, tracks and general vehicle movements.
8. Mitigation measures for preventing flora destruction.

9. Mitigation measures for preventing faunal destruction.
10. Mitigation measures to be implemented with respect to the exploration camps and exploration sites.
11. Mitigation measures for surface and groundwater protection as well as general water usage.
12. Mitigation measures to minimise negative socioeconomic impacts.
13. Mitigation measures to minimise health and safety impacts.
14. Mitigation measures to minimise visual impacts.
15. Mitigation measures to minimise vibration, noise and air quality.
16. Mitigation measures for waste (solid and liquid) management.
17. Rehabilitation plan, and.
18. Environmental data collection.

Table 7: Key areas of the migration measures

OBJECTIVES	INDICATOR	SCHEDULE	RESPONSIBILITY
Project planning and implementation			
<p>Establish a strong environmental awareness protocol from project implementation to final closure in order to ensure the least possible impact to the environment.</p>	<ol style="list-style-type: none"> 1. Resources (Human and Financial) are provided for the Environmental Awareness and Training, Regular Safety, Health and Environment meetings and for internal and external Environmental Monitoring Costs as well as for any rehabilitation costs that may arise. 2. Appointment of senior and experienced persons as Proponent's Representative (PR), Project Manager (PM) and Project HSE to assume responsibility for environmental issues. 3. All individuals including sub-contractors who work on, or visit, the sites are aware of the contents of the Environmental Policy and the EMP. 4. The EMP and Environmental Policy will be included in Tender Documents. <p>Field visit will take place during which main access tracks will be discussed in cooperation with the land owner/s</p>	<ol style="list-style-type: none"> 1. Regional reconnaissance field-based mapping and sampling activities. 2. Initial local field-based mapping and sampling activities. 3. Detailed local field-based activities such as local geological mapping, geochemical mapping and sampling, trenching and drilling of closely spaced boreholes and bulk sampling. 4. Prefeasibility and feasibility studies. 	<ol style="list-style-type: none"> (i) Proponent's Representative (PR) (ii) Project Manager (PM) (iii) Project HSE (iv) Contractor Subcontractors
Implementation of the EMP			
<ol style="list-style-type: none"> 1. Define roles and responsibilities in terms of the EMP. To make all personnel, contractors and subcontractors aware of these roles and responsibilities to ensure compliance with the EMP provisions. 	<ol style="list-style-type: none"> 1. Senior staff and senior contractors are aware of, and practice the EMP requirements. These persons shall be expected to know and understand the objectives of the EMP and will, by example, encourage suitable environmentally friendly behaviour to be adopted during the exploration 2. Recognition will be given to appropriate 	<ol style="list-style-type: none"> (i) Regional reconnaissance field-based mapping and sampling activities. (ii) Initial local field-based mapping and sampling activities. (iii) Detailed local field-based activities such as local geological mapping, geochemical mapping and sampling, trenching and 	<ol style="list-style-type: none"> (i) Proponent's Representative (PR) (ii) Project Manager (PM) (iii) Project HSE (iv) Contractor Subcontractors

OBJECTIVES	INDICATOR	SCHEDULE	RESPONSIBILITY
<p>2. Implement environmental management that is preventative and proactive. Establish the resources, skills, etc. required for effective environmental management.</p>	<p>environmentally acceptable behaviour. 3. Inappropriate behaviour will be corrected. An explanation to why the behaviour is unacceptable must be given, and, if necessary, the person will be disciplined. e.g. fees set out for non-compliance</p>	<p>drilling of closely spaced boreholes and bulk sampling. (iv) Prefeasibility and feasibility studies.</p>	
Public and stakeholders relations.			
<p>Maintain sound relationships with the Other land users/ land owner/s and another stakeholders / public</p>	<p>1. No littering or any other activity prohibited Permission to utilise water as well as all applicable permits are obtained.</p>	<p>1. Regional reconnaissance field-based mapping and sampling activities. 2. Initial local field-based mapping and sampling activities. 3. Detailed local field-based activities such as local geological mapping, geochemical mapping and sampling, trenching and drilling of closely spaced boreholes and bulk sampling. 4. Prefeasibility and feasibility studies.</p>	<p>(i) Proponent's Representative (PR) (ii) Project Manager (PM) (iii) Project HSE (iv) Contractor Subcontractors</p>
Measures to enhance positive socioeconomic impacts.			
<p>Measures to enhance positive socioeconomic impacts in order to:</p> <p>1. Avoid exacerbating the influx of unemployed people to the area. 2. Develop a standardised recruitment method for sub-contractor and field workers.</p>	<p>1. Stipulate a preference for local contractors in its tender policy. Preference to local contractors should still be based on competitive business principles and salaries and payment to local service providers should still be competitive. 2. Develop a database of local businesses that qualify as potential service providers and invite them to the tender process. 3. Scrutinise tender proposals to ensure that minimum wages were included in the costing. 4. Stipulate that local residents should be employed for temporary unskilled/skilled and</p>	<p>(i) Regional reconnaissance field-based mapping and sampling activities. (ii) Initial local field-based mapping and sampling activities. (iii) Detailed local field-based activities such as local geological mapping, geochemical mapping and sampling, trenching and</p>	<p>(i) Proponent's Representative (PR) (ii) Project Manager (PM) (iii) Project HSE</p>

OBJECTIVES	INDICATOR	SCHEDULE	RESPONSIBILITY
	<p>where possible in permanent unskilled/skilled positions as they would reinvest in the local economy.</p> <p>5. Must ensure that potential employees are from the area, they need submit proof of having lived in the area for a minimum of 5 years.</p> <p>6. Must ensure that contractors adhere to Namibian Affirmative Action, Labour and Social Security, Health and Safety laws. This could be accomplished with a contractual requirement stipulating that monthly proof should be submitted indicating payment of minimum wages to workers, against their ID numbers, payment of social security and submission of affirmative action data.</p> <p>Encouraged to cater for the needs of employees to increase the spending of wages locally.</p>	<p>drilling of closely spaced boreholes and bulk sampling.</p> <p>(iv) Prefeasibility and feasibility studies.</p>	<p>(iv) Contractor Subcontractors</p>
Environmental awareness briefing and training.			
<p>Implement environmental awareness briefing / training for individuals who visit, or work, on site.</p>	<p>1. Every senior/supervisory member of the team shall familiarise themselves with the contents of the EMP. They shall understand their roles and responsibilities with regard to personnel and project compliance with the EMP.</p> <p>2. Subject to agreement of the parties, the Environmental Coordinator will hold an Environmental Awareness Briefing meeting, which shall be attended by all contractors before the start of the mineral exploration activities.</p> <p>3. Briefings on the EMP and Environmental Policy shall discuss the potential dangers to the environment of the following activities: public relations, littering, off-road driving, waste management, poaching and plant theft</p>	<p>(i) Regional reconnaissance field-based mapping and sampling activities.</p> <p>(ii) Initial local field-based mapping and sampling activities.</p> <p>(iii) Detailed local field-based activities such as local geological mapping, geochemical mapping and sampling, trenching and drilling of closely spaced boreholes and bulk sampling.</p> <p>(iv) Prefeasibility and feasibility studies.</p>	<p>(i) Proponent's Representative (PR)</p> <p>(ii) Project Manager (PM)</p> <p>(iii) Project HSE</p> <p>(iv) Contractor Subcontractors</p>

OBJECTIVES	INDICATOR	SCHEDULE	RESPONSIBILITY
	<p>etc. The need to preserve soil, conserve water and implement water saving measures shall be presented.</p> <p>Individuals can be questioned on the Environmental Philosophy and EMP and can recall contents.</p>		
Erection of supporting exploration infrastructure.			
<ol style="list-style-type: none"> 1. Get Environmental Clearance before implementation 2. Establishment of the supporting exploration infrastructure done on an area with the least disturbance to the environment and within the non-sensitive areas 	<ol style="list-style-type: none"> 1. Documented Environmental Clearance from MET. 2. All on site exploration infrastructure (e.g. water tanks, sewage tanks, waste disposal) are not situated on environmental sensitive area and have disturbed as less as possible. <p>No littering.</p>	<ol style="list-style-type: none"> (i) Regional reconnaissance field-based mapping and sampling activities. (ii) Initial local field-based mapping and sampling activities. (iii) Detailed local field-based activities such as local geological mapping, geochemical mapping and sampling, trenching and drilling of closely spaced boreholes and bulk sampling. (iv) Prefeasibility and feasibility studies. 	<ol style="list-style-type: none"> (i) Proponent's Representative (PR) (ii) Project Manager (PM) (iii) Project HSE (iv) Contractor (v) Subcontractors
Use of existing access roads, tracks and general vehicle movements			
<ol style="list-style-type: none"> 1. Plan a road/track network that considers the environmental sensitivity of the area and a long-term tourism potential, and which is constructed in a 	<ol style="list-style-type: none"> 1. Avoid unnecessary affecting areas viewed as important habitat – i.e. Ephemeral River and its network of tributaries of ephemeral rivers. rocky outcrops. clumps of protected tree species. 2. Make use of existing tracks/roads as much as possible throughout the area. 3. Do not drive randomly throughout the area (could cause mortalities to vertebrate fauna and unique flora. accidental fires. erosion related problems, etc.). 	<ol style="list-style-type: none"> (i) Regional reconnaissance field-based mapping and sampling activities. (ii) Initial local field-based mapping and sampling activities. (iii) Detailed local field-based activities such as local geological mapping, geochemical mapping and sampling, trenching and 	<ol style="list-style-type: none"> (i) Proponent's Representative (PR) (ii) Project Manager (PM) (iii) Project HSE

OBJECTIVES	INDICATOR	SCHEDULE	RESPONSIBILITY
<p>technically and environmentally sound manner.</p> <p>2. Stick to the recommended track and sensitivity management zones.</p>	<p>4. Avoid off-road driving at night as this increases mortality of nocturnal species.</p> <p>5. Implement and maintain off-road track discipline with maximum speed limits (e.g.30km/h) as this would result in fewer faunal mortalities and limit dust pollution.</p> <p>6. Use of "3-point-turns" rather than "U-turns".</p> <p>7. Where tracks have to be made to potential exploration sites off the main routes, the routes should be selected causing minimal damage to the environment – e.g. use the same tracks. cross drainage lines at right angles. avoid placing tracks within drainage lines. avoid collateral damage (i.e. select routes that do not require the unnecessary removal of trees/shrubs, especially protected species).</p> <p>8. Leave vehicles on tracks and walk to point of interest, when possible.</p> <p>Rehabilitate all new tracks created.</p>	<p>drilling of closely spaced boreholes and bulk sampling.</p> <p>(iv) Prefeasibility and feasibility studies.</p>	<p>(iv) Contractor</p> <p>(v) Subcontractors</p>
Mitigation measures for preventing flora and ecosystem destruction and promotion of conservation.			
	<p>1. Limit the development and avoid rocky outcrops throughout the entire area.</p> <p>2. Avoid development and associated infrastructure in sensitive areas – e.g. Ephemeral River, in/close to drainage lines, cliffs, boulder and rocky outcrops in the area, etc. This would minimise the negative effect on the local environment especially unique features serving as habitat to various species.</p> <p>3. Avoid placing access routes (roads and tracks) through sensitive areas – e.g. over rocky outcrops/ridges and along drainage lines. This would minimise the effect on localised potentially sensitive habitats in the area.</p>	<p>(i) Regional reconnaissance field-based mapping and sampling activities.</p> <p>(ii) Initial local field-based mapping and sampling activities.</p> <p>(iii) Detailed local field-based activities such as local geological mapping, geochemical mapping and sampling, trenching and drilling of closely spaced boreholes and bulk sampling.</p>	<p>(i) Proponent's Representative</p>

OBJECTIVES	INDICATOR	SCHEDULE	RESPONSIBILITY
<p>Prevent flora and ecosystem destruction and promote conservation</p>	<ol style="list-style-type: none"> 4. Avoid driving randomly through the area (i.e. “track discipline”), but rather stick to permanently placed roads/tracks – especially during the detailed field-based exploration phase. This would minimise the effect on localised potentially sensitive habitats in the area. 5. Stick to speed limits of maximum 30km/h as this would result in less dust pollution which could affect certain flora – e.g. lichen species. Speed humps could also be used to ensure the speed limit. 6. Remove unique and sensitive flora (e.g. all Aloe sp.) before commencing with the development activities and relocate to a less sensitive/disturbed site if possible. 7. Prevent and discourage the collecting of firewood as dead wood has an important ecological role – especially during the development phase(s). Such collecting of firewood, especially for economic reasons, often leads to abuses – e.g. chopping down of live and/or protected tree species such as <i>Acacia erioloba</i> which is a good quality wood. 8. Attempt to avoid the removal of bigger trees during the development phase(s) – especially with the development of access routes – as these serve as habitat for a myriad of fauna. 9. Prevent and discourage fires – especially during the development phase(s) – as this could easily cause runaway veld fires causing problems (e.g. loss of grazing and domestic stock mortalities, etc.) for the neighbouring farmers. 10. Rehabilitation of the disturbed areas – i.e. initial development access route “scars” and 	<p>(iv) Prefeasibility and feasibility studies.</p>	<p>(PR) (ii) Project Manager (PM) (iii) Project HSE (iv) Contractor (v) Subcontractors</p>

OBJECTIVES	INDICATOR	SCHEDULE	RESPONSIBILITY
	<p>associated tracks as well as temporary accommodation sites. Preferably workers should be transported in/out to the EPL area on a daily basis to avoid excess damage to the local environment (e.g. fires, wood collection, poaching, etc.). Such rehabilitation would not only confirm the company's environmental integrity, but also show true local commitment to the environment.</p> <p>11. Implement erosion control. The area(s) towards and adjacent the drainage line(s) are easily eroded and further development may exacerbate this problem. Avoid undertaking any exploration activities including supporting activities such as camping within 20m of the main drainage line(s) to minimise erosion problems as well as preserving the riparian associated fauna.</p> <p>12. Conduct a thorough investigation on the flora associated with the proposed exploration site(s).</p> <p>13. Prevent the introduction of potentially invasive alien plant species (e.g. <i>Tecoma stans</i>, <i>Pennisetum setaceum</i>, etc.) for ornamental purposes as part of the landscaping should mining activities eventually commence. Alien species often "escape" and become invasive causing further ecological damage.</p> <p>A thorough investigation of water use and ground water extraction should take place before actual mining activities commence as this would affect the local flora, especially the ephemeral riparian vegetation, not only locally, but downstream as well.</p>		
Mitigation measures for preventing faunal and ecosystem destruction and promotion of conservation			

OBJECTIVES	INDICATOR	SCHEDULE	RESPONSIBILITY
<p>Prevent faunal and ecosystem destruction and promote conservation</p>	<ol style="list-style-type: none"> 1. Limit the development and avoid rocky outcrops throughout the entire area. 2. Avoid development & associated infrastructure in sensitive areas – e.g. in/close to drainage lines, cliffs, boulder and rocky outcrops in the area, etc. This would minimise the negative effect on the local environment especially unique features serving as habitat to various species. 3. Avoid placing access routes (roads & tracks) through sensitive areas – e.g. over rocky outcrops/ridges and along drainage lines. This would minimise the effect on localised potentially sensitive habitats in the area. 4. Avoid driving randomly through the area (i.e. “track discipline”), but rather stick to permanently placed roads/tracks – especially during the detailed field-based exploration phase. This would minimise the effect on localised potentially sensitive habitats in the area. 5. Stick to speed limits of maximum 30km/h as this would result in fewer faunal road mortalities. Speed humps could also be used to ensure the speed limit. 6. Remove (e.g. capture) unique fauna and sensitive fauna before commencing with the development activities and relocate to a less sensitive/disturbed site if possible. 7. Prevent and discourage the setting of snares (poaching), illegal collecting of veld foods (e.g. tortoises, etc.), indiscriminate killing of perceived dangerous species (e.g. snakes, etc.) and collecting of wood as this would diminish and negatively affect the local fauna – especially during the development phase(s). 	<ol style="list-style-type: none"> (i) Regional reconnaissance field-based mapping and sampling activities. (ii) Initial local field-based mapping and sampling activities. (iii) Detailed local field-based activities such as local geological mapping, geochemical mapping and sampling, trenching and drilling of closely spaced boreholes and bulk sampling. (iv) Prefeasibility and feasibility studies. 	<ol style="list-style-type: none"> (i) Proponent’s Representative (PR) (ii) Project Manager (PM) (iii) Project HSE (iv) Contractor (v) Subcontractors

OBJECTIVES	INDICATOR	SCHEDULE	RESPONSIBILITY
	<p>8. Attempt to avoid the removal of bigger trees during the development phase(s) – especially with the development of access routes – as these serve as habitat for a myriad of fauna.</p> <p>9. Prevent and discourage fires – especially during the development phase(s) – as this could easily cause runaway veld fires affecting the local fauna, but also causing problems (e.g. loss of grazing & domestic stock mortalities, etc.) for the neighbouring farmers.</p> <p>10. Rehabilitation of the disturbed areas – i.e. initial development access route “scars” and associated tracks as well as temporary accommodation sites. Preferably workers should be transported in/out to the EPL area on a daily basis to avoid excess damage to the local environment (e.g. fires, wood collection, poaching, etc.). Such rehabilitation would not only confirm the company’s environmental integrity, but also show true local commitment to the environment.</p> <p>11. Implement erosion control. The area(s) towards & adjacent the drainage line(s) are easily eroded and further development may exacerbate this problem. Avoid undertaking exploration activities including supporting activities such as camping within 20m of the main drainage line(s) to minimise erosion problems as well as preserving the riparian associated fauna.</p> <p>12. Conduct a thorough investigation on the fauna associated with the proposed exploration site(s).</p> <p>13. Prevent the number of domestic pets – e.g. cats & dogs – accompanying the workers during the field-based exploration activities as</p>		

OBJECTIVES	INDICATOR	SCHEDULE	RESPONSIBILITY
	<p>cats decimate the local fauna and interbreed & transmit diseases to the indigenous African Wildcat found in the area. Dogs often cause problems when bonding on hunting expeditions thus negatively affecting the local fauna. The indiscriminate and wanton killing of the local fauna by such pets should be avoided at all costs.</p>		
Mitigation measures to be implemented with respect to the exploration camps and exploration sites.			
<p>Promotion of conservation through preservation of flora, fauna and ecosystem around the exploration camps and exploration sites</p>	<ol style="list-style-type: none"> 1. Select camp sites and other temporary lay over sites with care – i.e. avoid important habitats. 2. Use portable toilets to avoid faecal pollution around camp and exploration sites. 3. Initiate a suitable and appropriate refuse removal policy as littering could result in certain animals becoming accustomed to humans and associated activity and result in typical problem animal scenarios – e.g. baboon, black-backed jackal, etc.. 4. Avoid and/or limit the use of lights during nocturnal exploration activities as this could influence and/or affect various nocturnal species – e.g. bats and owls, etc. Use focused lighting for least effect. 5. Prevent the killing of species viewed as dangerous – e.g. various snakes – when on site. 6. Prevent the setting of snares for ungulates (i.e. poaching) or collection of veld foods (e.g. tortoises) and unique plants (e.g. various Aloe and Lithop) or any form of illegal hunting activities. 7. Avoid introducing dogs and cats as pets to camp sites as these can cause significant 	<ol style="list-style-type: none"> (i) Regional reconnaissance field-based mapping and sampling activities. (ii) Initial local field-based mapping and sampling activities. (iii) Detailed local field-based activities such as local geological mapping, geochemical mapping and sampling, trenching and drilling of closely spaced boreholes and bulk sampling. (iv) Prefeasibility and feasibility studies. 	<ol style="list-style-type: none"> (i) Proponent's Representative (PR) (ii) Project Manager (PM) (iii) Project HSE (iv) Contractor (v) Subcontractors

OBJECTIVES	INDICATOR	SCHEDULE	RESPONSIBILITY
	<p>mortalities to local fauna (cats) and even stock losses (dogs).</p> <p>8. Remove and relocate slow moving vertebrate fauna (e.g. tortoises, chameleon, snakes, etc.) to suitable habitat elsewhere on property.</p> <p>9. Avoid the removal and/or damaging of protected flora potentially occurring in the general area – e.g. various <i>Aloe</i>, <i>Commiphora</i> and <i>Lithop</i> species.</p> <p>10. Avoid introducing ornamental plants, especially potential invasive alien species, as part of the landscaping of the camp site, etc., but rather use localised indigenous species, should landscaping be attempted, which would also require less maintenance (e.g. water).</p> <p>11. Remove all invasive alien species on site, especially <i>Prosopis sp.</i>, which is already becoming a major ecological problem along various water courses throughout Central Namibia. This would not only indicate environmental commitment, but actively contribute to a better landscape.</p> <p>12. Inform contractors/workers regarding the above-mentioned issues prior to exploration activities and monitor for compliance thereof throughout.</p> <p>13. Rehabilitate all areas disturbed by the exploration activities – i.e. camp sites, exploration sites, etc..</p> <p>14. Implement a policy of replacing 2 tree species (preferably the same species) for every 1 protected tree species having to be removed (if necessary).</p> <p>15. Although fires are not expected to be a major issue in the general area due to the overall lack of grass cover, some years it may be necessary</p>		

OBJECTIVES	INDICATOR	SCHEDULE	RESPONSIBILITY
	<p>to consider fire prevention. Ensure that adequate firefighting equipment (e.g. fire beaters, extinguishers, etc.) is available at camp sites and clear kitchen areas to avoid accidental fires.</p> <p>16. Employ an independent environmental auditor to ensure compliance, especially of the rehabilitation of all the affected areas.</p>		
Mitigation measures to minimise negative socioeconomic impacts.			
<p>Effective management of socioeconomic benefits of the proposed / ongoing project activities</p>	<ol style="list-style-type: none"> 1. The employment of local residents and local companies should be a priority. To ensure that potential employees are from the area, they need submit proof of having lived in the area for a minimum of 5 years. 2. Providing information such as the number and types of jobs available, availability of accommodation facilities and rental costs and living expenses, could make potential job seekers wary of moving to the area. 3. Addressing unrealistic expectations about large numbers of jobs would be created. 4. Exploration camp if required should be established in close consultation with the land owners. 5. Exploration camp should consider provision of basic services. 6. When the contracts an employee is terminated or not renewed, contractors should transport the employee out of the area to their hometowns within two days of their contracts coming to an end. 7. Tender documents could stipulate that contractors have HIV/Aids workplace policies and programmes in place and proof of 	<ol style="list-style-type: none"> (i) Regional reconnaissance field-based mapping and sampling activities. (ii) Initial local field-based mapping and sampling activities. (iii) Detailed local field-based activities such as local geological mapping, geochemical mapping and sampling, trenching and drilling of closely spaced boreholes and bulk sampling. (iv) Prefeasibility and feasibility studies. 	<ol style="list-style-type: none"> (i) Proponent's Representative (PR) (ii) Project Manager (PM) (iii) Project HSE (iv) Contractor (v) Subcontractors

OBJECTIVES	INDICATOR	SCHEDULE	RESPONSIBILITY
	<p>implementation should be submitted with invoicing.</p> <p>8. Develop strategies in coordination with local health officers and NGO's to protect the local communities, especially young girls.</p> <p>9. Contract companies could submit a code of conduct, stipulating disciplinary actions where employees are guilty of criminal activities in and around the vicinity of the EPL. Disciplinary actions should be in accordance with Namibian legislation.</p> <p>10. Contract companies could implement a no-tolerance policy regarding the use of alcohol and workers should submit to a breathalyser test upon reporting for duty daily.</p> <p>11. Request that the Roads Authority erect warning signs of heavy exploration vehicles on affected public roads.</p> <p>12. Ensure that drivers adhere to speed limits and that speed limits are strictly enforced.</p> <p>13. Ensure that vehicles are road worthy and drivers are qualified.</p> <p>14. Train drivers in potential safety issues.</p>		
Mitigation measures to minimise health and safety impacts			
	<p>1. Physical hazards: Follow national and international regulatory and guidelines provisions, use of correct Personal Proactive Clothing at all times, training programme, as well as the implementation of a fall protection program in accordance with the Labour Act.</p> <p>2. Some of the public access management measures that may be considered in an event of vandalism occurring are:</p>		

OBJECTIVES	INDICATOR	SCHEDULE	RESPONSIBILITY
<p>Promotion of health and safe working environment in line with national Labour Laws</p>	<ul style="list-style-type: none"> • All exploration equipment must be in good working condition and services accordingly. • Control access to the exploration site through using gates on the access road(s) if required. • The entire site, must be fenced off. the type of fencing to be used would, however, be dependent on the impact on the visual resources and/or cost. and. • Notice or information boards relating to public safety hazards and emergency contact details to be put up at the gate(s) to the exploration area. <ol style="list-style-type: none"> 3. There is a comprehensive First Aid Kit on site and that suitable anti-histamine for bee stings / snake bites should be available. 4. Rubber gloves are used in case of an accident to reduce the risk of contracting HIV/AIDS. 5. All individuals have received instructions concerning the dangers of dehydration or hyperthermia. Encourage all to drink plenty of clean water not directly from the surface water bodies. 6. No person under the influence of alcohol or drugs is allowed to work on site. 7. The Exploration Manager ensures compliance with the requirements of the relevant Namibian Labour, Mining and Health and Safety Regulations. 8. Dangerous or protected / sensitive areas are clearly marked and access to these areas is controlled or restricted. 9. Due care must be taken when driving any vehicles on any roads particularly the gravel 	<ol style="list-style-type: none"> (i) Regional reconnaissance field-based mapping and sampling activities. (ii) Initial local field-based mapping and sampling activities. (iii) Detailed local field-based activities such as local geological mapping, geochemical mapping and sampling, trenching and drilling of closely spaced boreholes and bulk sampling. (iv) Prefeasibility and feasibility studies. 	<p>(i) Proponent's Representative (PR)</p> <p>(ii) Project Manager (PM)</p> <p>(iii) Project HSE</p> <p>(iv) Contractor</p> <p>(v) Subcontractors</p>

OBJECTIVES	INDICATOR	SCHEDULE	RESPONSIBILITY
	<p>roads. ALL Drivers must drive with their headlights switched on when travelling on the gravel roads (day and night).</p> <p>10. Persons driving a vehicle must be in possession of a valid driver's license</p> <p>11. Awareness on HIV/AIDS among workers is raised</p>		
Mitigation measures to minimise visual impacts.			
<p>Preserve the landscape character in the development of supporting infrastructure and choice of visual screening</p>	<ol style="list-style-type: none"> 1. Consider the landscape character and the visual impacts of the exploration area including camp site from all relevant viewing angles, particularly from public roads. 2. Use vegetation screening where applicable. Do not cut down vegetation unnecessary around the site and use it for site screening. 3. Avoid the use of very high fencing. 4. Minimise access roads and no off-road that could result in land scarring is allowed. 5. Minimise the presence of secondary structures: remove inoperative support structures. 6. Remove all infrastructure and reclaim, or rehabilitate the project site after exploration activities are completed. 	<ol style="list-style-type: none"> (i) Regional reconnaissance field-based mapping and sampling activities. (ii) Initial local field-based mapping and sampling activities. (iii) Detailed local field-based activities such as local geological mapping, geochemical mapping and sampling, trenching and drilling of closely spaced boreholes and bulk sampling. (iv) Prefeasibility and feasibility studies. 	<ol style="list-style-type: none"> (i) Proponent's Representative (PR) (ii) Project Manager (PM) (iii) Project HSE (iv) Contractor (v) Subcontractors
Mitigation measures to minimise vibration, noise and air quality.			
	<ol style="list-style-type: none"> 1. Limit vehicle movements and adhere to the speed of 60 km/h. 2. Vehicles and all equipment must be properly serviced to minimise noise pollution. 		

OBJECTIVES	INDICATOR	SCHEDULE	RESPONSIBILITY
<p>Promote of effective management of vehicle movement, drilling and blasting operations and use of Personal Protective Equipment (PPE) in mitigating air quality and vibrations impacts in line with national laws</p>	<ol style="list-style-type: none"> 3. Use of Personal Protective Equipment (PPE) to minimise Occupational Health Safety impacts dues to noise pollution around the site. 4. National or international acoustic design standards must be followed. 5. Drilling and blasting operations can major sources of vibration, noise and dust and where required the following mitigation measure shall be implemented. <ul style="list-style-type: none"> • Drilling and blasting operations shall only be done by a qualified person who must at all times adhere to the required blasting protocol. • Prior warning shall be given to all persons, neighbour and visitors before the blasting takes place. • Careful planning and timing of the blast program to minimise the size of the charge. • Where practicable, use of explosive products with lower detonation velocities, but noting that this would require more explosives to achieve the same blast result. • Use of detonating caps with built-in time delays, as this effectively reduces each detonation into a series of small explosions. • Use of a procedure ("decking the charge") which subdivides the charge in one blast hole into a series of smaller explosions, with drill patterns restricted to a minimum separation from any other loaded hole. • Over-drilling the holes to ensure fracturing of the rock. • Staggering the detonation for each blast hole in order to spread the explosive's total overpressure over time. 	<ol style="list-style-type: none"> (i) Regional reconnaissance field-based mapping and sampling activities. (ii) Initial local field-based mapping and sampling activities. (iii) Detailed local field-based activities such as local geological mapping, geochemical mapping and sampling, trenching and drilling of closely spaced boreholes and bulk sampling. (iv) Prefeasibility and feasibility studies. 	<ol style="list-style-type: none"> (i) Proponent's Representative (PR) (ii) Project Manager (PM) (iii) Project HSE (iv) Contractor (v) Subcontractors

OBJECTIVES	INDICATOR	SCHEDULE	RESPONSIBILITY
	Matching, to the extent possible, the energy needed in the “work effort” of the borehole to the rock mass to minimise excess energy vented into the receiving environment.		
Mitigation measures for waste (solid and liquid) management.			
Promotion of effective waste (solid and liquid) management through the adoption of sound and hierarchical approach to waste management, which would include waste minimisation, re-use, recovery, recycling, treatment, and proper disposal.	<ol style="list-style-type: none"> 1. Burial of waste on anywhere within the EPL area is not allowed and all generated solid waste must be disposed at the at an approved municipal waste disposal site. 2. Toilet and ablution facilities must be provided on site and should not be located close to Ephemeral Rivers or visible discontinuities (fractures, joints or faults). 3. Provide site information on the difference between the two main types of waste, namely: <ul style="list-style-type: none"> • General Waste. and • Hazardous Waste. 4. Sealed containers, bins, drums or bags for the different types of wastes must be provided. Never dispose of hazardous waste in the bins or skips intended for general waste. 5. All solid and liquid wastes generated from the proposed / ongoing project activities shall be reduced, reused, or recycled to the maximum extent practicable. 6. Trash may not be burned or buried, except at approved sites under controlled conditions in accordance with the municipal regulations. 7. Never overfill any waste container, drum, bin or bag. Inform your Contractor or the Environmental Control Officer / Site Manager if the containers, drums, bins or skips are nearly full. 8. Never litter or throwaway any waste on the site, in the field or along any road. No illegal dumping. 	<ol style="list-style-type: none"> (i) Regional reconnaissance field-based mapping and sampling activities. (ii) Initial local field-based mapping and sampling activities. (iii) Detailed local field-based activities such as local geological mapping, geochemical mapping and sampling, trenching and drilling of closely spaced boreholes and bulk sampling. (iv) Prefeasibility and feasibility studies. 	<ol style="list-style-type: none"> (i) Proponent's Representative (PR) (ii) Project Manager (PM) (iii) Project HSE (iv) Contractor (v) Subcontractors

OBJECTIVES	INDICATOR	SCHEDULE	RESPONSIBILITY
	9. Littering is prohibited. 10. Latrines and French drains built >100m from watercourses or pans to avoid pollution of primary and secondary aquifers. 11. Chemical toilets or suitable waste water management system shall be provided on site and around the camp as may be required.		
Rehabilitation plan			
<p>Contributions toward environmental preservation and sustainability through rehabilitation of disturbed areas such as exploration sites and remove all unwanted part of the fixtures and restore the sites to close an approximation of the pristine state as is technically, financially and reasonably possible.</p>	<p>1. The following rehabilitation actions are practiced:</p> <ul style="list-style-type: none"> • Small samples are preferably removed from site to avoid additional scars in the landscape. • Litter from the site has been taken to the appropriate disposal site. • Debris, scrap metal, etc is removed before moving to a new site or closure of the mine. • Water tanks are dismantled and removed if not need for after use. • Tracks on site and the access road are rehabilitated by smoothing the 'middle mannetjie'(middle ridge between the tracks) and raking the surface. <p>2. The following should be undertaken at all disturbed areas that require further rehabilitation:</p> <ul style="list-style-type: none"> • if applicable the stockpiled subsoil to be replaced (spread) and/or the site is neatly contoured to establish effective wind supported landscape patterns. • Replace the stored topsoil seed bank layer. 	<ul style="list-style-type: none"> (i) Regional reconnaissance field-based mapping and sampling activities. (ii) Initial local field-based mapping and sampling activities. (iii) Detailed local field-based activities such as local geological mapping, geochemical mapping and sampling, trenching and drilling of closely spaced boreholes and bulk sampling. (iv) Prefeasibility and feasibility studies. 	<ul style="list-style-type: none"> (i) Proponent's Representative (PR) (ii) Project Manager (PM) (iii) Project HSE (iv) Contractor (v) Subcontractors

OBJECTIVES	INDICATOR	SCHEDULE	RESPONSIBILITY
	Five (5) years after rehabilitation the sites are not visible from 500 m away.		
Environmental data collection			
<p>1. Collect data that will add value to environmental monitoring and reporting to the regulators</p> <p>2. Collect data that will add to the general scientific and geographic knowledge of the environment in which the exploration process takes place.</p> <p>3. Acknowledged that the required skills and knowledge to collect all the suggested data may not be available within the mine /exploration team, however, as much data as is practical should be collected.</p>	<p>1. Environmental Monitoring Report Compiled and submitted by the Environmental Coordinator to the regulators</p> <p>2. The following types of information should be gathered:</p> <ul style="list-style-type: none"> • Fauna. What tracks or signs of animal activity have been seen? (photographs and GPS recording) What animals, birds etc were identified? Alternatively provide a description and/ or photo if unidentified. • Unusual weather conditions, e.g. records of the prevailing wind direction and the direction from which storm events come. Was there fog or rain, frost overnight or intense heat? Preferably have a thermometer and rain gauge on site. • Vegetation. Record trees, shrubs, grass, etc. that are found in the vicinity along each of the profiles. Some plants do only occur after rainfall and might not have been seen for decades. • Any archaeological, cultural or historical sites that may be found. GPS coordinates, photograph and plot the position on a 1: 50 000 maps. • other including surface water, spring, large scale geological features etc 	<p>(i) Regional reconnaissance field-based mapping and sampling activities.</p> <p>(ii) Initial local field-based mapping and sampling activities.</p> <p>(iii) Detailed local field-based activities such as local geological mapping, geochemical mapping and sampling, trenching and drilling of closely spaced boreholes and bulk sampling.</p> <p>(iv) Prefeasibility and feasibility studies.</p>	<p>(i) Proponent's Representative (PR)</p> <p>(ii) Project Manager (PM)</p> <p>(iii) Project HSE</p> <p>(iv) Contractor</p> <p>(v) Subcontractors</p>

4. REHABILITATION COMMITMENTS

4.1 Rehabilitation Process

The following is the summary of key rehabilitation process to be implemented by the proponent:

❖ **Step 1: Backfilling excavated or disturbed areas:**

- Transporting all stockpiled overburden back to the excavated voids.
- Backfilling the trenches, pits and quarries using original excavated and stockpiled materials.
- If applicable, backfill the various layers of overburden in the reverse order in which they were removed, i.e. Last out should be first in as far as possible, and.
- When backfilling, bear in mind that some space must be left for the backfilling of the soil on top of the overburden.

❖ **Step 2: Remove all waste and unwanted materials:**

- Once the drilling slimes ponds have dried sufficiently, scrape out the slimes and transporting back to an exploration excavated voids during the overburden backfilling stage.
- Allow the pollution control dam to evaporate completely, scrape all waste that has collected in the pond and dispose of these and the pond lining at a suitable site.
- Bulldoze the walls of the pollution control pond over and contour.
- Collect remaining domestic waste on site and transport to an approved municipal waste disposal site.
- Clean out the oil traps, collect the waste material in drums and transport to a suitable site for disposal, and.
- Manually remove all weedy species that are present at the site (the entire plant can easily be removed because the plants tend not to root deeply).

❖ **Step 3: Remove all structures:**

- Remove all building materials from the exploration / test mining site and either:
 - Transporting to a new site if it is to be used or stored elsewhere. or
 - Disposing at a suitable approved municipal waste disposal site. or
 - Making them available to the farmer or local persons, or,
 - Selling at an auction.

- Remove all machinery from the site and transport to a new site where it is to be used or stored or sell at an auction.
- Remove all fences that have been constructed and either make the material available to the local persons/farmer, dispose at a suitable site or sell at an auction.
- Remove the generators from the sites from site and either transport to a new site for storage or sell it to the farmer or an Auction.
- Seal all petrol, diesel, oil and grease containers and remove from the site to a storage facility or make it available to the farmer.
- Collect all scrap metal and dispose at a suitable site or sell at an auction, and.
- Break up all concrete slabs and structures on site and transport the fragments to a suitable site for disposal.

❖ **Step 4: Rehabilitate the excavated voids:**

- Replace the subsoil layer by backfilling the soil on top of the overburden and contour cap the subsoil with a topsoil layer about 10cm deep, and.
- Cap the topsoil containing the seedbank with a layer of gravel by manually spreading the fragments across the surface using a rake.

❖ **Step 5: Rehabilitate site-specific storm-water channel:**

- Remove all the site structures created.
- Dispose of the plastic/wire and use the fill material to backfill the storm-water channel.
- Cap with a layer of topsoil to a depth of about 10cm, and.
- Cap the topsoil containing the seedbank with a gravel layer by manually spreading the fragments across the surface using a rake.

❖ **Step 6: Rehabilitate all adjacent exploration / test mining sites affected:**

- Rip the surfaces to a depth of 40 cm to 50 cm using a multi-toothed ripper and tractor.
- Cover with a layer of topsoil to a depth of about 10 cm, and.
- Cap the topsoil containing the seedbank with a layer of gravel by manually spreading the fragments across the surface using a rake.

❖ **Step 7: Rehabilitate all unwanted access roads created:**

- Rip the road surface to a depth of at least 50 cm using a multi-toothed ripper and tractor.
- Disk the ripped surface to break up the clods.

- Cover with a layer of topsoil to a depth of about 10 cm, and.
- Cap the topsoil containing the seedbank with a gravel layer by manually spreading the fragments across the surface using a rake.

4.2 Monitoring of the Environmental Performance

4.2.1 Rehabilitation Evaluation and Performance Monitoring

The following is the summary of key rehabilitation evaluation and performance monitoring to be implemented by the proponent:

- ❖ **Monitoring:** Monitoring program is instituted to ensure that the requirements of the mining site rehabilitation program are met. Rehabilitation program may be subjected to various natural or man-made forces that can hinder the progress and lead to problems or failure of the rehabilitation program. Regular monitoring will ensure that these factors are identified early so they may be resolved through appropriate recommendations.
- ❖ **Frequency:** All rehabilitated areas should be monitored over a three (3) years period from the onset of the rehabilitation procedures. The frequency of monitoring suggested above is dependent on satisfactory performance. If, however, the requirements are not being met, the frequency of monitoring can be increased. It is suggested that the monitoring be conducted once a year around September when the grasses and forbs are flowering.
- ❖ **Methods:** The rehabilitated areas might be monitored by the sampling randomly located 1m² quadrates. Approximately 10 quadrates per hectare (or a minimum of 3) should be sampled per plant community. The factors that will be examined in each quadrate include:
 - Percentage basal cover.
 - Percentage aerial cover.
 - Species composition and diversity.
 - Vigor and health of plants.
 - Presence of and evidence of fauna, and.
 - Nature of the substrate.
- ❖ **Controls:** To enable a comparison, control plots located within the surrounding un-mining areas should also be monitored. This will give an indication of the progress of rehabilitated areas versus the natural vegetation and will set the goals, which ultimately should be achieved. By monitoring the natural vegetation annually, it will also be possible to assess the natural changes that are taking place. These findings can then be applied to the rehabilitated areas so as to account for the changes, which may have resulted from natural events. Approximately 5 to 10 quadrates of 1m² should be sampled per community type to set the controls.
- ❖ **Maintenance:** Maintenance requirements may include seeding (if there is poor germination of the seedbank), fertiliser applications, correcting erosion problems, removing weeds, etc.

Maintenance of the rehabilitated areas will be necessary periodically. The need for and extent of maintenance activities will be determined during the regular monitoring of the site, and.

- ❖ **Qualified Personnel:** The rehabilitation procedures from implementation to monitoring should be overseen by qualified personnel. Any persons involved in the rehabilitation of the mining site should be trained in the techniques involved.

4.2.2 Overall Environmental Performance Monitoring and Reporting

The monitoring of the environmental performances for the proposed / ongoing exploration project can be divided into two (2) parts and these are:

- (i) Routine / ongoing daily monitoring activities to be undertaken by the Project HSE Officer with the support of the external specialist consultants as maybe required, and.
- (ii) Preparation of annual Environmental Monitoring Report and Environmental Closure covering all activities related to the Environmental Management Plan during exploration / prospecting stages and at closure of the proposed / ongoing exploration to be undertaken by the Project HSE Officer with the support of the external specialist consultants as maybe required.

The proponent will be required to report regularly (twice in a year or as the case maybe) to the Environmental Commissioner in the Ministry of Environment and Tourism (MET), the environmental performances as part of the ongoing environmental monitoring programme. Environmental monitoring programme is part of the EMP performances assessments and will need to be compiled and submitted as determined by the Environmental Commissioner. The process of undertaking appropriate monitoring as per specific topic (such as fauna and flora) and tracking performances against the objectives and documenting all environmental activities is part of internal and external auditing to be coordinated by the Project HSE Officer.

The second part of the monitoring of the EMP performance will require a report outlining all the activities related to effectiveness of the EMP at the end of the planned mineral exploration to be undertaken by the Project HSE Officer with the support of the external specialist consultants as maybe required. The objective will be to ensure that corrective actions are reviewed and steps are taken to ensure compliance for future EIA and EMP implementation.

The report shall outline the status of the environment and any likely environmental liability after the completion of the proposed / ongoing project activities. The report shall be submitted to the Environmental Commissioner in the Ministry of Environment and Tourism and will represent the final closure and fulfilment of the conditions of the Environmental Clearance Certificate (ECC) issued by the Environmental Commissioner and the conditions of the Pro-Forma Environmental Contract signed by the Proponent, Environmental Commissioner and the Mining Commissioner.

5. CONCLUSION AND RECOMMENDATION

5.1 Conclusions

Razorback Mining Company (Pty Ltd (**the Proponent**)) intends to undertake exploration activities in the Exclusive Prospecting Licence (EPL) No. 3195 covering base and rare metals, dimension stone, industrial minerals, non-nuclear fuels minerals, precious metals and precious stones. The exploration activities to be undertaken as assessed in this environmental assessment are as follows:

- (i) Initial desktop exploration activities.
- (ii) Regional reconnaissance field-based activities.
- (iii) Initial local field-based activities including detailed mapping, sampling and drilling operations.
- (iv) Detailed local field-based activities including detailed mapping, sampling and drilling operations, and.
- (v) Prefeasibility and feasibility studies including possible test mining.

The overall severity of potential environmental impacts of the proposed / ongoing project activities on the receiving environment (physical, biological, socioeconomic environments and ecosystem functions, services, use and non-use values or passive uses) will be of low magnitude, temporally duration, localised extent and low probability of occurrence.

5.2 Recommendations

It is hereby recommended that the proposed / ongoing exploration activities be issued with an Environmental Clearance Certificate (ECC). The Proponent shall implement precautionary measures / approach to environmental management. The Proponent shall take into consideration the following key requirements for implementing the proposed exploration programme:

- (i) Mitigation measures must be implemented as detailed in this EMP report.
- (ii) Based on the findings of the EIA, it's hereby recommended that the proposed / ongoing exploration activities be issued with an Environmental Clearance Certificate (ECC). It's hereby recommended that the proposed / ongoing exploration activities be issued with an Environmental Clearance Certificate (ECC). The Proponent shall implement precautionary measures / approach to environmental management.
- (iii) The Proponent shall negotiate Access Agreements with the land owner/s as may be applicable.
- (iv) The Proponent shall adhere to all the provisions of the EMP and conditions of the Access Agreement to be entered between the Proponent and the land owner/s in line with all applicable national regulations.
- (v) Before entering any private or protected property/ area such as a private farm, the Proponent must give advance notices and obtain permission to access the EPL area at all times, and.

- (vi) Where possible, and if water is found during the detailed exploration boreholes drilling operations, the Proponent shall support other land uses in the area in terms of access to freshwater supply for both human consumption, wildlife and agricultural support as may be requested by the local community / land owners/s. The abstraction of the groundwater resources shall include water levels monitoring, sampling and quality testing on a bi-annual basis, and that the affected landowners must have access to the results of the water monitoring analyses as part of the ongoing stakeholder disclosure requirements on shared water resources as maybe applicable.

The Proponent must take all the necessary steps to implement all the recommendations of the EMP for the successful implementation and completion of the proposed / ongoing exploration programme covering the EPL 3195. Recommended actions to be implemented by the Proponent through implementations of the EMP are:

- (i) The Proponent must implement precautionary measures/approach to environmental management. Once a viable and potential economic resource has been identified, the Proponent must develop and implement a separate EIA and EMP inclusive of the specialist studies such as fauna and flora to be undertaken by specialist consultants as part of the feasibility study stage.
- (ii) Before detailed site-specific exploration activities such as extensive drilling operations and access routes are selected, the Project HSE Officer with the support of the external specialist consultants as may be required should consider the flora, fauna, and archaeological sensitivity of the area and commission a field survey in advance of any site development as may be required based on the assessment undertaken.
- (iii) The Project HSE Officer shall lead, implement and promote environmental culture through awareness-raising of the workforce, contractors and sub-contractors in the field during the whole duration of the proposed / ongoing exploration period.
- (iv) The Proponent to provide all the necessary support including human and financial resources, for the implementation of the proposed / ongoing mitigations and effective environmental management during the planned exploration activities for the EPL 3963.
- (v) Project HSE Officer with the support of the external specialist consultants as maybe required to develop a simplified environmental induction and awareness programme for all the workforce, contractors and sub-contractors.
- (vi) Where contracted service providers are likely to cause environmental impacts, these will need to be identified and contract agreements need to be developed with costing provisions for environmental liabilities.
- (vii) Implement monitoring of the actions and management strategies developed during the mineral exploration process. Final Environmental Monitoring report shall be prepared by the Project HSE Officer with the support of the external specialist consultants as maybe required to be submitted to the regulators and to mark the closure of the proposed / ongoing mineral exploration, and.
- (viii) Develop and implement a monitoring programme that will fit into the overall company's Environmental Management Systems (EMS) as well as for any future EIA for possible mining projects.

5.3 Summary ToR for Test Mining and Mining Stages

In an event that economic minerals resources are discovered within the EPL 3963 area and could lead to the development of a mining project, a new Environmental Clearance Certificate (ECC) for mining will be required. The ECC being supported by this EMP report only covers the exploration phase. A separate field-based and site-specific Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) reports supported by specialist studies as may be applicable must be prepared in order to support the application for the new ECC for mining operations. The EIA and EMP studies shall form part of the pre-feasibility and feasibility study with respect to the test mining or possible mining operations.

The site-specific EIA and EMP shall cover the area identified to have potential economic minerals resources as well as all areas to be used for infrastructural support areas such as pit/shaft area/s, waste rock, tailings dump, access, office blocks, water and energy infrastructure support areas (water, energy and road/access). In addition to the Terms of Reference (ToR) to be developed during the Environmental Scoping study phase for the test mining/mining stages, the following field-based and site-specific specialist studies shall be undertaken as part of the EIA and EMP for possible test mining or mining operations in an event of a discovery of economic minerals resources and possible development of a mining project:

- (i) Groundwater studies including modeling as may be applicable.
- (ii) Field-based flora and fauna diversity.
- (iii) Archaeology.
- (iv) Noise and Sound modelling linked to engineering studies.
- (v) Socioeconomic assessment, and.
- (vi) Others may be identified/recommended by the stakeholders/ landowners/ Environmental Commissioner or specialists.

The aims and objectives of the Environmental Assessment (EA) covering EIA and EMP to be implemented as part of the feasibility study if a variable resource is discovered are:

- (i) To assess all the likely positive and negative short- and long-term impacts on the receiving environment (physical, biological and socioeconomic environments) at local (EPL Area), regional, national (Namibia), and Global levels using appropriate assessment guidelines, methods and techniques covering the complete project lifecycle. The EIA and EMP to be undertaken shall be performed with reasonable skill, care, and diligence in accordance with professional standards and practices existing at the date of performance of the assessment, and the guidelines, methods, and techniques shall conform to the national regulatory requirements, process, and specifications in Namibia and in particular as required by the Ministry of Mines and Energy, Ministry of Environment and Tourism and Ministry of Agriculture, Water Affairs and Forestry, and.
- (ii) The development of appropriate mitigation measures that will enhance the positive impacts and reduce the likely negative influences of the negative impacts identified or anticipated. Such mitigation measures shall be contained in a detailed EMP report covering the entire project lifecycle.

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Appendix A – ECC



REPUBLIC OF NAMIBIA

MINISTRY OF ENVIRONMENT AND TOURISM

Tel: (00 26461) 284 2111
Fax: (00 26461) 232 057

Cnr Robert Mugabe &
Dr Kenneth Kaunda Street
Private Bag 13306
Windhoek
Namibia

Enquiries: Mr. Josafat K Hiwana
E-mail: josafat.hiwana@met.gov.na

18 June 2019

OFFICE OF THE ENVIRONMENTAL COMMISSIONER

The Managing Director
Omatjete Mining Company(Pty) Ltd
P.O. Box 80363
Windhoek

Dear Sir/Madam

SUBJECT: ENVIRONMENTAL CLEARANCE CERTIFICATE FOR THE EXPLORATION IN THE EXCLUSIVE PROSPECTING LICENSE (EPL) 3195, OTJOZONDJUPA REGION

The Environmental Management Plan submitted is sufficient as it made provisions of the environmental management concerning the proposed activities. From this perspective, regular environmental monitoring and evaluations on environmental performance should be conducted. Targets for improvements should be established and monitored throughout this process.

This Ministry reserves the right to attach further legislative and regulatory conditions during the operational phase of the project.

On the basis of the above, this letter serves as an environmental clearance certificate for the project to continue. However, this clearance letter does not in any way hold the Ministry of Environment and Tourism accountable for any misleading information, nor any adverse effects that may arise from this project's activities. Instead, full accountability rests with Omatjete Mining Company (Pty) Ltd.

This environmental clearance is valid for a period of 3 (three) years, from the date of issue unless withdrawn by this office.

Yours sincerely,

Fredrick Mupoti Sikabongo
DEPUTY ENVIRONMENTAL COMMISSIONER



“Stop the poaching of our rhinos”

Appendix B – Baseline Vegetation Study

Appendix C – Hydrogeological Borehole Status Assessment

Appendix D – Archaeological Study

Appendix E – Environmental Monitoring Report

ENVIRONMENTAL REPORT (ER)

(Mineral Licence Holders)

EPL 3195

INSTRUCTIONS:

1. An Environmental Report shall be submitted to the Ministry of Environment and Tourism (MET) by the following dates each year: -

January to June and from July to December (biannually)

2. This form shall be the minimum reporting format. Mineral Licence Holders are expected to attach a map of the area to this report. Mineral Licence Holders are welcome to attach any other information they like, such as copies of new agreements, letters of explanation, aerial photographs, or anything else of interest.
3. The map shall be used to indicate the following:
 - * areas where activities has taken place,
 - * roads or tracks made and/or used,
 - * houses and other infrastructure erected,
 - * excavations or other scars that have been rehabilitated,
 - * conflict areas, etc.
4. It is recommended (but not compulsory) that Holders attach photographs to their report, which visually illustrate the activities described in their report.
5. Failure to submit an Environmental Report shall constitute a breach of the Environmental Contract, which could result in steps taken against the Holder.
6. All information contained in the Environmental Report shall be treated as confidential.
7. The Holder shall ensure that all the information recorded in the Environmental Report is, to their best knowledge, accurate and correct.

Completed Environmental Reports should be sent to:

**The Permanent Secretary
Ministry of Environment and Tourism
Private Bag 13306
Windhoek**

For Attention: Ms. S. Angula / Environmental Assessment Unit

A. HOLDER DETAILS AND REPORTING PERIOD :

Name of Holder: Razorback Gold Mining Company (Pty) LTD

Address of Holder: 20 Nachtigal Street, PO Box 80363, Windhoek, Namibia

Telephone: 067 306518 Fax number: 061 416 499 cell: 0812286298
E-mail: tmutilifa@b2gold.com

Name of person compiling report: Thomas Mutilifa

Reference number(s) of Mining Claim area / block / licence: EPL3195

Geographical location of area / block / license: Omaruru District, Erongo Region

This report is for the period of: (tick the relevant box and fill in the year)

January - June 2021
 July - December 2021

Other (please specify)

B. POLLUTION AND WASTE

Has all domestic refuse (eg. Household waste, bottles, tins, paper, plastic, etc) been removed from the mineral licence area? Yes no

If "yes" above, specify the site where such refuse has been deposited:
Omaruru Municipal waste dump site

How often is refuse removed to the site mentioned above? : every week
every two weeks
every three weeks
once a month
at irregular intervals

If refuse has not been removed, where has it been dumped? n/a

As far as litter is concerned, would you describe your mineral licence area as : Very clean Reasonably clean Filthy

If your mineral licence area is littered with refuse, please indicate how you intend cleaning it up :
.....

Are toilets provided for all staff employed by the holder : yes no

If "yes" above, are they : Flush toilets Chemical Toilets Pit Latrines Other

If chemical toilets are used, how are old chemicals disposed of :
Deposited in evaporation ponds Deposited in a municipal refuse dump
Buried on site Other (specify)

F. INFRASTRUCTURAL DEVELOPMENT

Infrastructural Developments means any offices, houses, sheds, cement slabs, or other buildings or foundations for buildings. It also includes storage tanks (for water, fuel or other substances), temporary housing such as mobile homes & caravans, prefab units and tented camps. Please report on new construction or additions to buildings you reported on, in your previous Environmental Report.

Was any NEW infrastructure established during this period ?	yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
If "yes" above, is this infrastructure :	Permanent <input type="checkbox"/>	Temporary <input type="checkbox"/>	A combination <input type="checkbox"/>
Describe infrastructure by ticking boxes :	Offices <input type="checkbox"/>	Housing <input type="checkbox"/>	Sheds <input type="checkbox"/>
	Prefab structure <input type="checkbox"/>	Garages <input type="checkbox"/>	Storage tanks <input type="checkbox"/>
	Cement slabs <input type="checkbox"/>	Foundations <input type="checkbox"/>	Other <input type="checkbox"/>
	If "other", please specify : ...		

G. BOREHOLES, SAMPLE HOLES OR OTHER DRILLING

This category includes holes drilled for water, for taking mineral or other samples, for setting explosives, for testing mineral quality, or any other purpose.

Were any holes drilled during this period ?	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>
If "yes", for which purpose were they drilled ?	Water <input type="checkbox"/>	
	Sampling <input type="checkbox"/>	
	Explosives <input type="checkbox"/>	depth <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		Quantity <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Other <input type="checkbox"/>	(specify)	

H. WATER

Your estimated monthly water consumption during this period was: 20,000 cubic metres

Water was obtained from : River Borehole Dam Water Affairs Other

Please estimate the percentage of water used for the following activities during this period:	
Human consumption	30.0 %
Toilets	30.0 %
Prospecting activities	10.0 %
Washing vehicles & equipment	30 %
Dust control	0%
Building activities	0 %
Gardens	0%
Recreation	0%
Other (specify)	0%

Were there any accidents which caused a loss of water ? yes no

If "yes", please give details:

I. PROTECTION OF FAUNA AND FLORA

Please answer the following questions by ticking the appropriate boxes :

Question :	Yes	No	Unsure
Were any mammals, birds, reptiles or fish killed or wounded (purposefully or accidentally) in the mining licence site or area ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were any plants (excluding grasses) picked, damaged or removed ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Was there any wood collecting in the area ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

J. RELATIONS WITH NEIGHBOURS, OFFICIALS AND/OR THE GENERAL PUBLIC

Were there any conflicts with neighbours, land-owners, Government Officials or the public during this period ? Yes No

If "yes" above, what was the nature of these conflicts ? (tick boxes to provide answers)

People entered the area without permission or prior arrangement	<input type="checkbox"/>
Complaints about reduced access to water or other resources	<input type="checkbox"/>
Complaints about danger posed to livestock or wildlife	<input type="checkbox"/>
Allegations about stock-theft or poaching	<input type="checkbox"/>
Complaints about vehicle or equipment movement on access roads / tracks	<input type="checkbox"/>
Complaints about litter or other types of pollution (eg. Noise, dust, etc.)	<input type="checkbox"/>
Complaints about the activities / actions of Holder staff	<input type="checkbox"/>
Allegations that the Holder was not adhering to contracts / agreements	<input type="checkbox"/>
Allegations that the Holder damaged property or installations	<input type="checkbox"/>
Allegations that gates were left open or unlocked	<input type="checkbox"/>
Other (specify).....	<input type="checkbox"/>

If conflicts arose, indicate how these were resolved ? (tick boxes)

Verbal agreement after discussions.....	<input type="checkbox"/>
Written agreement by special contract.....	<input type="checkbox"/>
Instructions to Holder staff to avoid conflicts.....	<input type="checkbox"/>
Holder rectified its mistakes and undertook to avoid future wrong-doing.	<input type="checkbox"/>
Court action or other third party arbitration.....	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>
The conflicts remain unsolved.....	<input type="checkbox"/>

Any other comments or information :

See next page for more space for "additional comments".....Additional comments continued

.....
.....
.....

I declare that the information provided in this Environmental Report is, to the best of my knowledge, accurate and correct.



09th July 2021

.....
Holder
Senior Exploration Geologist

.....
Date

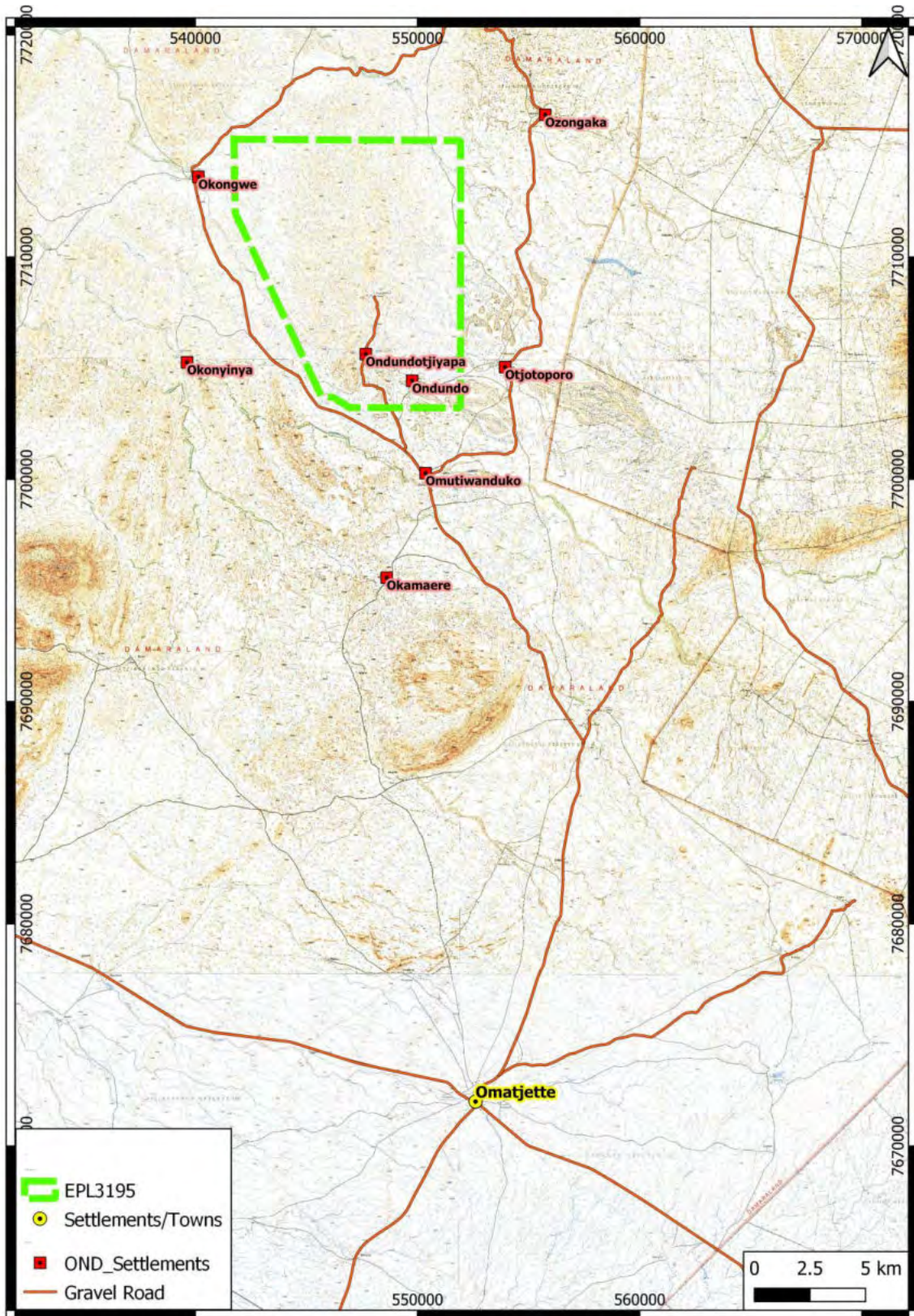


Figure 1: Regional locality plan for EPL 3195 in the Erongo Region

ENVIRONMENTAL REPORT (ER)

(Mineral Licence Holders)

EPL 3195

INSTRUCTIONS:

1. An Environmental Report shall be submitted to the Ministry of Environment and Tourism (MET) by the following dates each year: -

January to June and from July to December (biannually)

2. This form shall be the minimum reporting format. Mineral Licence Holders are expected to attach a map of the area to this report. Mineral Licence Holders are welcome to attach any other information they like, such as copies of new agreements, letters of explanation, aerial photographs, or anything else of interest.
3. The map shall be used to indicate the following:
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 - * roads or tracks made and/or used,
 - * houses and other infrastructure erected,
 - * excavations or other scars that have been rehabilitated,
 - * conflict areas, etc.
4. It is recommended (but not compulsory) that Holders attach photographs to their report, which visually illustrate the activities described in their report.
5. Failure to submit an Environmental Report shall constitute a breach of the Environmental Contract, which could result in steps taken against the Holder.
6. All information contained in the Environmental Report shall be treated as confidential.
7. The Holder shall ensure that all the information recorded in the Environmental Report is, to their best knowledge, accurate and correct.

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Private Bag 13306
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For Attention: Ms. S. Angola / Environmental Assessment Unit

A. HOLDER DETAILS AND REPORTING PERIOD :

Name of Holder: Razorback Gold Mining Company (Pty) LTD

Address of Holder: 8 Sinclair Street, PO Box 80363, Windhoek, Namibia

Telephone: 067 306518 Fax number: 061 295 8799 cell: 0812286298
E-mail: tmutilifa@b2gold.com

Name of person compiling report: Thomas Mutilifa

Reference number(s) of Mining Claim area / block / licence: EPL3195

Geographical location of area / block / license: Omaruru District, Erongo Region

This report is for the period of: (tick the relevant box and fill in the year)

January - June 2021
 July - December 2021

Other (please specify)

B. POLLUTION AND WASTE

Has all domestic refuse (eg. Household waste, bottles, tins, paper, plastic, etc) been removed from the mineral licence area? Yes no

If "yes" above, specify the site where such refuse has been deposited:
Omaruru Municipal waste dump site

How often is refuse removed to the site mentioned above? : every week
every two weeks
every three weeks
once a month
at irregular intervals

If refuse has not been removed, where has it been dumped? n/a

As far as litter is concerned, would you describe your mineral licence area as : Very clean Reasonably clean Filthy

If your mineral licence area is littered with refuse, please indicate how you intend cleaning it up :
.....

Are toilets provided for all staff employed by the holder : yes no

If "yes" above, are they : Flush toilets Chemical Toilets Pit Latrines Other

If chemical toilets are used, how are old chemicals disposed of :
Deposited in evaporation ponds Deposited in a municipal refuse dump
Buried on site Other (specify)

F. INFRASTRUCTURAL DEVELOPMENT

Infrastructural Developments means any offices, houses, sheds, cement slabs, or other buildings or foundations for buildings. It also includes storage tanks (for water, fuel or other substances), temporary housing such as mobile homes & caravans, prefab units and tented camps. Please report on new construction or additions to buildings you reported on, in your previous Environmental Report.

Was any NEW infrastructure established during this period ?	yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
If "yes" above, is this infrastructure :	Permanent <input type="checkbox"/>	Temporary <input type="checkbox"/>	A combination <input type="checkbox"/>
Describe infrastructure by ticking boxes :	Offices <input type="checkbox"/>	Housing <input type="checkbox"/>	Sheds <input type="checkbox"/>
	Prefab structure <input type="checkbox"/>	Garages <input type="checkbox"/>	Storage tanks <input type="checkbox"/>
	Cement slabs <input type="checkbox"/>	Foundations <input type="checkbox"/>	Other <input type="checkbox"/>
	If "other", please specify : ...		

G. BOREHOLES, SAMPLE HOLES OR OTHER DRILLING

This category includes holes drilled for water, for taking mineral or other samples, for setting explosives, for testing mineral quality, or any other purpose.

Were any holes drilled during this period ?	yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>
If "yes", for which purpose were they drilled ?	Water <input type="checkbox"/>	
	Sampling <input type="checkbox"/>	
	Explosives <input type="checkbox"/>	depth <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
		Quantity <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Other <input type="checkbox"/>	(specify)	

H. WATER

Your estimated monthly water consumption during this period was: 20,000 cubic metres

Water was obtained from : River Borehole Dam Water Affairs Other

Please estimate the percentage of water used for the following activities during this period:	
Human consumption	30.0 %
Toilets	30.0 %
Prospecting activities	10.0 %
Washing vehicles & equipment	30 %
Dust control	0%
Building activities	0 %
Gardens	0%
Recreation	0%
Other (specify)	0%

Were there any accidents which caused a loss of water ? yes no

If "yes", please give details

.....

.....

I. PROTECTION OF FAUNA AND FLORA

Please answer the following questions by ticking the appropriate boxes :

Question :	Yes	No	Unsure
Were any mammals, birds, reptiles or fish killed or wounded (purposefully or accidentally) in the mining licence site or area ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were any plants (excluding grasses) picked, damaged or removed ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Was there any wood collecting in the area ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

J. RELATIONS WITH NEIGHBOURS, OFFICIALS AND/OR THE GENERAL PUBLIC

Were there any conflicts with neighbours, land-owners, Government Officials or the public during this period ? Yes No

If "yes" above, what was the nature of these conflicts ? (tick boxes to provide answers)

People entered the area without permission or prior arrangement	<input type="checkbox"/>
Complaints about reduced access to water or other resources	<input type="checkbox"/>
Complaints about danger posed to livestock or wildlife	<input type="checkbox"/>
Allegations about stock-theft or poaching	<input type="checkbox"/>
Complaints about vehicle or equipment movement on access roads / tracks	<input type="checkbox"/>
Complaints about litter or other types of pollution (eg. Noise, dust, etc.)	<input type="checkbox"/>
Complaints about the activities / actions of Holder staff	<input type="checkbox"/>
Allegations that the Holder was not adhering to contracts / agreements	<input type="checkbox"/>
Allegations that the Holder damaged property or installations	<input type="checkbox"/>
Allegations that gates were left open or unlocked	<input type="checkbox"/>
Other (specify).....	<input type="checkbox"/>

If conflicts arose, indicate how these were resolved ? (tick boxes)

Verbal agreement after discussions.....	<input type="checkbox"/>
Written agreement by special contract.....	<input type="checkbox"/>
Instructions to Holder staff to avoid conflicts.....	<input type="checkbox"/>
Holder rectified its mistakes and undertook to avoid future wrong-doing.	<input type="checkbox"/>
Court action or other third party arbitration.....	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>
The conflicts remain unsolved.....	<input type="checkbox"/>

Any other comments or information :

.....
.....
.....

I declare that the information provided in this Environmental Report is, to the best of my knowledge, accurate and correct.



10th January 2022

.....
Holder
Senior Exploration Geologist

.....
Date

Reviewed by:



11 January 2022

.....
Technical Services Manager

.....
Date

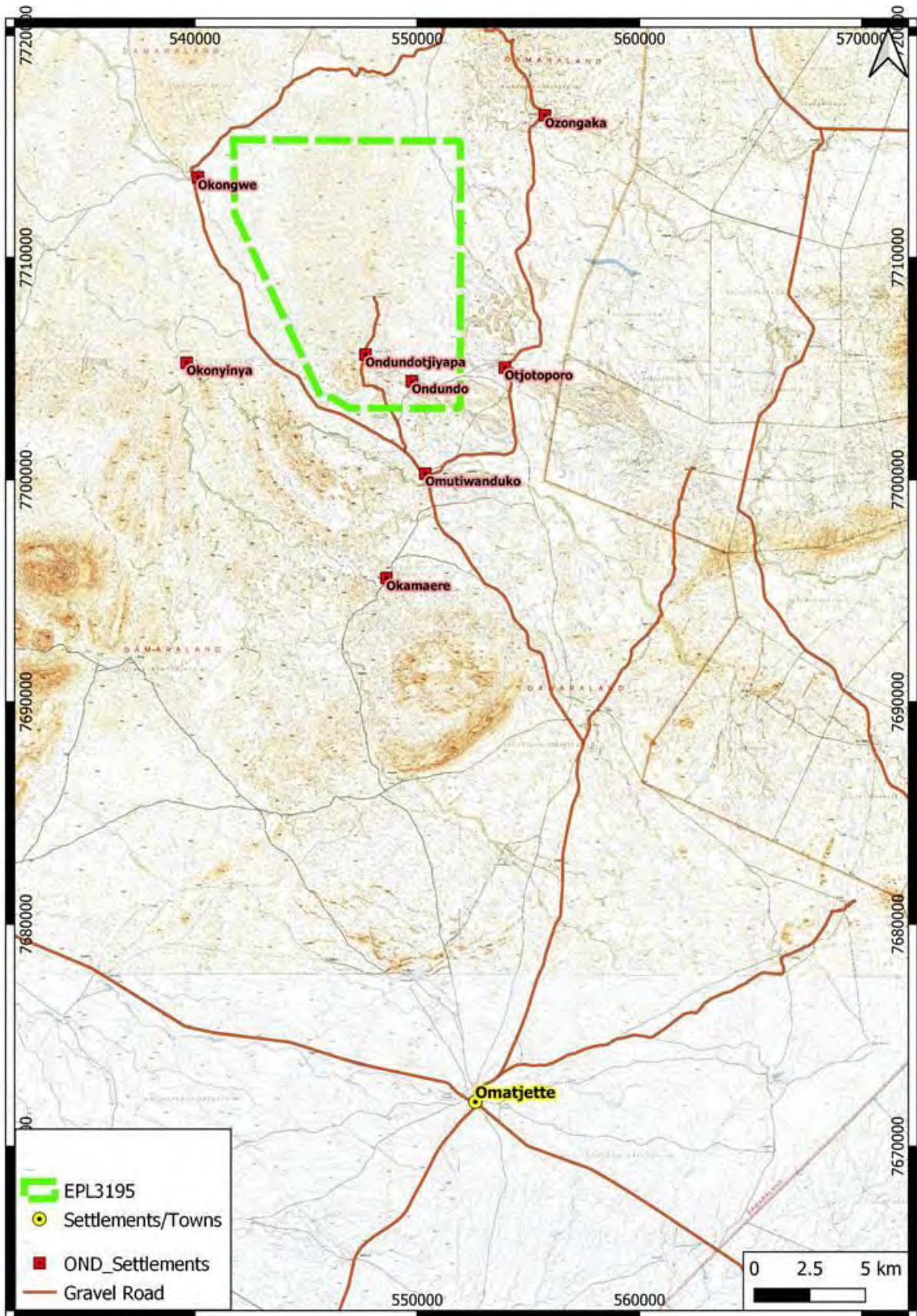


Figure 1: EPL3195 locality map.

ENVIRONMENTAL REPORT (ER)

(Mineral Licence Holders)

EPL 3195

INSTRUCTIONS:

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For Attention: Ms. S. Angula / Environmental Assessment Unit

MINISTRY OF ENVIRONMENT, FORESTRY AND TOURISM
DIRECTORATE OF ENVIRONMENTAL AFFAIRS
10 JUL 2020
Tel: 061 284 2701
RECEIVED 2
Signature:.....

A. HOLDER DETAILS AND REPORTING PERIOD :

Name of Holder: Razorback Gold Mining Company (Pty) LTD

Address of Holder: 20 Nachfigal Street, PO Box 80363, Windhoek, Namibia

Telephone: 067 306518 Fax number: 061 416 499 cell: 0812286298
E-mail: tmutilifa@b2gold.com

Name of person compiling report: Thomas Mutilifa

Reference number(s) of Mining Claim area / block / licence: EPL3195

Geographical location of area / block / license: Omaruru District, Erongo Region

This report is for the period of: (tick the relevant box and fill in the year)

- January - June 2020
 July - December 2020

Other (please specify)

B. POLLUTION AND WASTE

Has all domestic refuse (eg. Household waste, bottles, tins, paper, plastic, etc) been removed from the mineral licence area?

Yes no

If "yes" above, specify the site where such refuse has been deposited:
Omaruru Municipal waste dump site

How often is refuse removed to the site mentioned above? :
every week
every two weeks
every three weeks
once a month
at irregular intervals

If refuse has not been removed, where has it been dumped?

n/a

As far as litter is concerned, would you describe your mineral licence area as :

Very clean Reasonably clean Filthy

If your mineral licence area is littered with refuse, please indicate how you intend cleaning it up :
.....

Are toilets provided for all staff employed by the holder :

yes no

If "yes" above, are they : Flush toilets Chemical Toilets Pit Latrines Other

If chemical toilets are used, how are old chemicals disposed of :

Deposited in evaporation ponds Deposited in a municipal refuse dump
Buried on site Other (specify)

C. VEHICLES AND EARTHMOVING EQUIPMENT

Indicate the types and number of vehicles and earthmoving equipment used on site during the reporting period (tick box in front of the category of vehicles used and then fill in the next boxes to indicate numbers)

<input checked="" type="checkbox"/> Pick-up trucks ("bakkies"), either 2x4 or 4x4	How many in use	6
<input checked="" type="checkbox"/> Lorries / trucks between 5 - 10 ton capacity	How many in use	3
<input type="checkbox"/> Lorries / trucks larger than 10 ton capacity	How many in use	0
<input type="checkbox"/> Bulldozer of any size	How many in use	0
<input type="checkbox"/> Road Grader of any size	How many in use	0
<input checked="" type="checkbox"/> Front-end loader of any size	How many in use	1
<input checked="" type="checkbox"/> Drilling machine of any type	How many in use	3
<input type="checkbox"/> Other (specify) ...Backhoe.....	How many in use	0

D. ROADS AND TRACKS *In addition to ticking the following boxes, please draw roads/tracks made on an accompanying map in blue ink. Roads which have been rehabilitated (ie. restored to their natural state) can be scratched out in red pen.*

Have new roads or tracks been made during the reporting period ? yes no

If "yes" above how long are these (in kilometres) ? 7km

If "yes" above are these still in use ? yes no

If "no" above have any of these roads or tracks been rehabilitated ? yes no

If "yes" above, how have you done such rehabilitation ? : Ripping Raking sweeping
Other (specify)

If road / track rehabilitation has taken place, how many kilometres of roads or tracks have been rehabilitated ? kilometres

E. TRENCHES OR PITS: *If new trenches or pits were made in the site / area during the reporting period, please indicate these by ticking the appropriate boxes AND by means of illustrating them on the same map described above. New pits or trenches made, should be numbered and drawn as a CIRCLE in blue ink, while pits or trenches which were rehabilitated during the reporting period should be scratched out in RED ink.*

Have new trenches or pits been excavated in your area during the reporting period ? yes no

If "yes" above, what are their approximate sizes or dimensions ? (in metres)

Were any holes/trenches rehabilitated during this period of reporting ? yes (show on map) no

F. INFRASTRUCTURAL DEVELOPMENT

Infrastructural Developments means any offices, houses, sheds, cement slabs, or other buildings or foundations for buildings. It also includes storage tanks (for water, fuel or other substances), temporary housing such as mobile homes & caravans, prefab units and tented camps. Please report on new construction or additions to buildings you reported on, in your previous Environmental Report.

Was any NEW infrastructure established during this period ?	yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
If "yes" above, is this infrastructure :	Permanent <input type="checkbox"/>	Temporary <input type="checkbox"/>	A combination <input type="checkbox"/>
Describe infrastructure by ticking boxes :	Offices <input type="checkbox"/>	Housing <input type="checkbox"/>	Sheds <input type="checkbox"/>
	Prefab structure <input type="checkbox"/>	Garages <input type="checkbox"/>	Storage tanks <input type="checkbox"/>
	Cement slabs <input type="checkbox"/>	Foundations <input type="checkbox"/>	Other <input type="checkbox"/>
	If "other", please specify : ...		

G. BOREHOLES, SAMPLE HOLES OR OTHER DRILLING

This category includes holes drilled for water, for taking mineral or other samples, for setting explosives, for testing mineral quality, or any other purpose.

Were any holes drilled during this period ?	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>
If "yes", for which purpose were they drilled ?	Water <input checked="" type="checkbox"/>	max depth 120m, 2 holes
	Sampling <input checked="" type="checkbox"/>	max depth 350m, 24 holes
	Explosives <input type="checkbox"/>	depth <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Quantity <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Other <input type="checkbox"/>	(specify)	

H. WATER

Your estimated monthly water consumption during this period was: 50,000 cubic metres

Water was obtained from : River Borehole Dam Water Affairs Other

Please estimate the percentage of water used for the following activities during this period:		Were there any accidents which caused a loss of water ? yes <input type="checkbox"/> no <input checked="" type="checkbox"/> If "yes", please give details:
Human consumption	20.0 %	
Toilets	20.0 %	
Prospecting activities	60.0 %	
Washing vehicles & equipment	0.001 %	
Dust control	0%	
Building activities	0 %	
Gardens	0%	
Recreation	0%	
Other (specify)	0%	

I. PROTECTION OF FAUNA AND FLORA

Please answer the following questions by ticking the appropriate boxes :

Question :	Yes	No	Unsure
Were any mammals, birds, reptiles or fish killed or wounded (purposefully or accidentally) in the mining licence site or area ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were any plants (excluding grasses) picked, damaged or removed ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Was there any wood collecting in the area ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

J. RELATIONS WITH NEIGHBOURS, OFFICIALS AND/OR THE GENERAL PUBLIC

Were there any conflicts with neighbours, land-owners, Government Officials or the public during this period ? Yes No

If "yes" above, what was the nature of these conflicts ? (tick boxes to provide answers)

People entered the area without permission or prior arrangement	<input type="checkbox"/>
Complaints about reduced access to water or other resources	<input type="checkbox"/>
Complaints about danger posed to livestock or wildlife	<input type="checkbox"/>
Allegations about stock-theft or poaching	<input type="checkbox"/>
Complaints about vehicle or equipment movement on access roads / tracks	<input type="checkbox"/>
Complaints about litter or other types of pollution (eg. Noise, dust, etc.)	<input type="checkbox"/>
Complaints about the activities / actions of Holder staff	<input type="checkbox"/>
Allegations that the Holder was not adhering to contracts / agreements	<input type="checkbox"/>
Allegations that the Holder damaged property or installations	<input type="checkbox"/>
Allegations that gates were left open or unlocked	<input type="checkbox"/>
Other (specify).....	<input type="checkbox"/>

If conflicts arose, indicate how these were resolved ? (tick boxes)

Verbal agreement after discussions.....	<input type="checkbox"/>
Written agreement by special contract.....	<input type="checkbox"/>
Instructions to Holder staff to avoid conflicts.....	<input type="checkbox"/>
Holder rectified its mistakes and undertook to avoid future wrong-doing.	<input type="checkbox"/>
Court action or other third party arbitration.....	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>
The conflicts remain unsolved.....	<input type="checkbox"/>

Any other comments or information :

See next page for more space for "additional comments".....Additional comments continued

.....
Platforms were created to drill boreholes (Diamond and percussion) at 24 sites (Table 1). These sites are shown in figure 2.

Diamond drill sites are rehabilitated by filling up the sumps used for water recirculation and raking the area. The borehole is covered with a steel plate for future identification. Plate 1 and 2 show an active Diamond drilling site and a rehabilitated site.

Rotary Air Blast percussion (RAB) drill site are rehabilitated by refilling the drillhole with the rock chips that are not sampled and the site is raked. A wooden peg is placed at the site for future identification. Plate 3 an active RAB drill site.

Two water boreholes were drilled to provide water for exploration activities. Casing was inserted in the boreholes and a cement block was built around the borehole (Plate 4).

.....
Note that bulldozing of access routes (with a front end loader), followed mostly existing overgrown grid lines. A few new roads/tracks totalling 7km were created to access new areas. The tracks were not rehabilitated yet as they are still being used for exploration activities. Bulldozing did not harm any of the indigenous trees (Plate 5).

Indigenous trees in the area include Colophospermum mopane (Mopane), Boscia albitrunca (Witgat) and Cyphostemma currorii (Kobas).
.....

I declare that the information provided in this Environmental Report is, to the best of my knowledge, accurate and correct.



09th July 2020

.....
Holder
Exploration Geologist

.....
Date

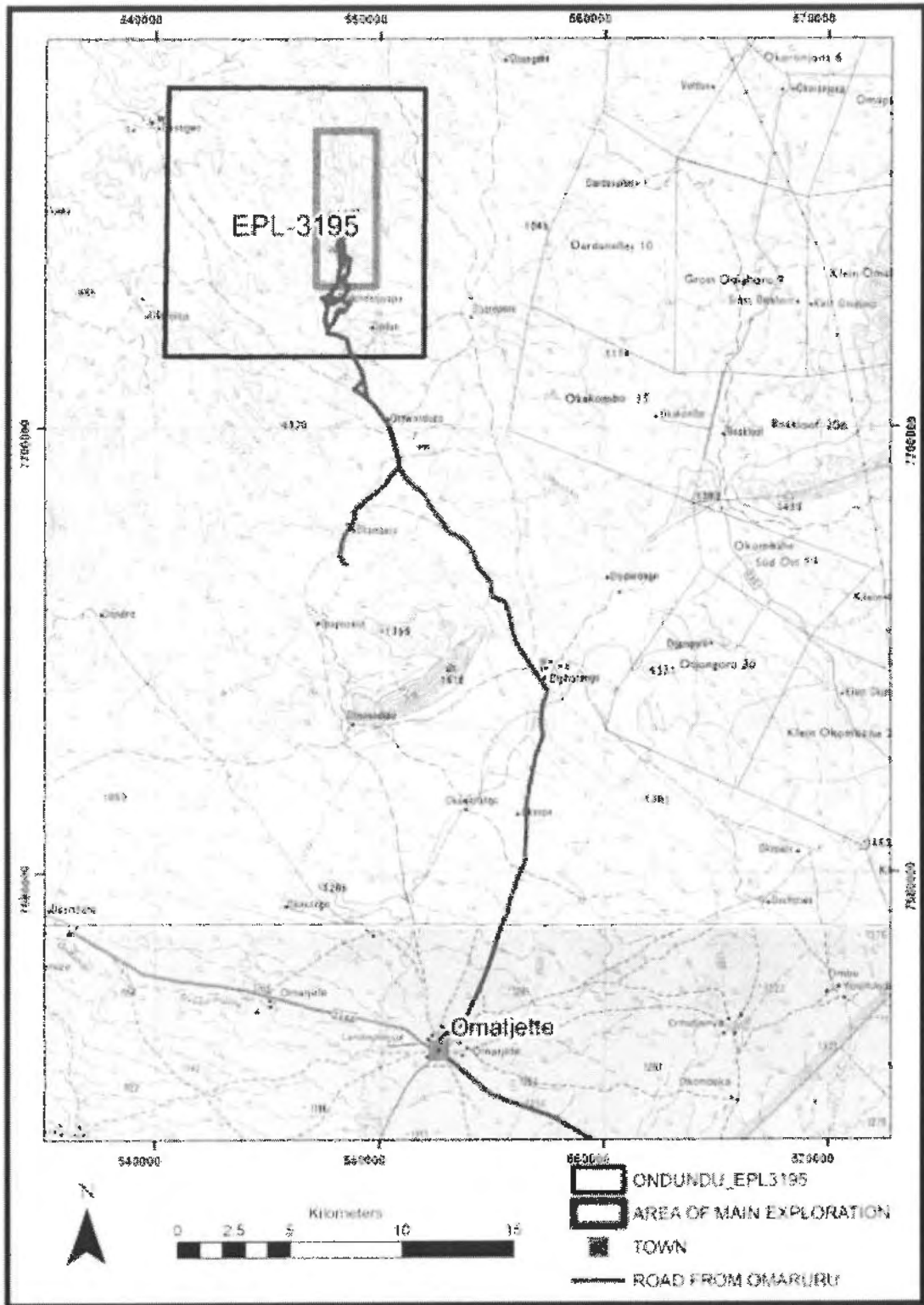


Figure 1: Regional locality plan for EPL 3195 in the Erongo Region

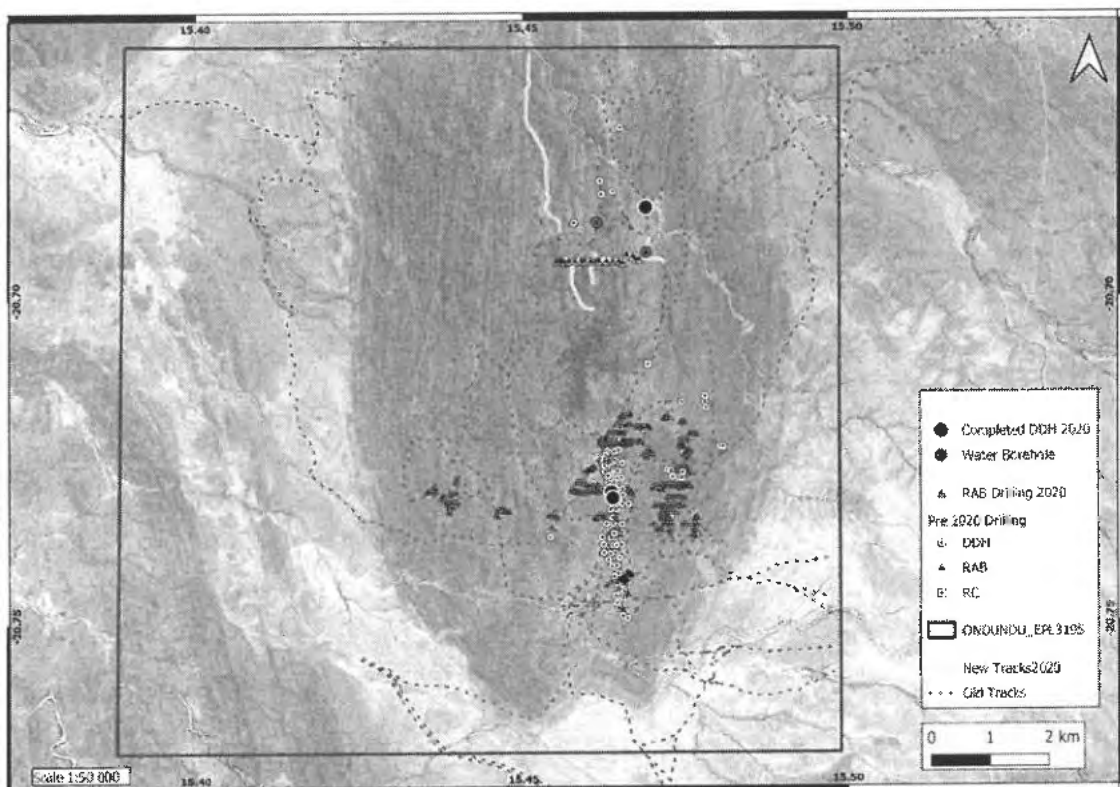


Figure 2. Location of tracks, diamond drillholes and RAB drillholes and new water boreholes.

HOLE NO	LATITUDE	LONGITUDE	TYPE (PERCUSSION, DIAMOND, RC)	PROGRESS	INCLINATION	DIRECTION	DEPTH (m)
RAB20-519	-20.6944	15.4551	PERCUSSION	COMPLETE	-70	90	51
RAB20-520	-20.6944	15.4556	PERCUSSION	COMPLETE	-70	90	50
RAB20-521	-20.6944	15.4561	PERCUSSION	COMPLETE	-70	90	50
RAB20-522	-20.6945	15.4564	PERCUSSION	COMPLETE	-70	90	50
RAB20-523	-20.6944	15.4571	PERCUSSION	COMPLETE	-70	90	50
RAB20-524	-20.6944	15.4580	PERCUSSION	COMPLETE	-70	90	50
RAB20-525	-20.6944	15.4590	PERCUSSION	COMPLETE	-70	90	50
RAB20-526	-20.6944	15.4595	PERCUSSION	COMPLETE	-70	90	50
RAB20-527	-20.6944	15.4604	PERCUSSION	COMPLETE	-70	90	50
RAB20-528	-20.6944	15.4611	PERCUSSION	COMPLETE	-70	90	50
RAB20-529	-20.6944	15.4616	PERCUSSION	COMPLETE	-70	270	50
RAB20-530	-20.6944	15.4628	PERCUSSION	COMPLETE	-70	270	50
RAB20-531	-20.6944	15.4638	PERCUSSION	COMPLETE	-70	270	50
RAB20-532	-20.6944	15.4647	PERCUSSION	COMPLETE	-70	270	50
WBH20-06	-20.6930	15.4690	PERCUSSION	COMPLETE	-90	360	117
WBH20-07	-20.6880	15.4620	PERCUSSION	COMPLETE	-90	360	120
ON20-215	-20.7310	15.4640	DIAMOND	COMPLETE	-60	70	251.85
ON20-216	-20.7300	15.4640	DIAMOND	COMPLETE	-60	70	317.82
ON20-217	-20.6860	15.4690	DIAMOND	COMPLETE	-60	235	350.67

Table 1: List of Percussion and Diamond Drillholes drilled between January and June 2020.

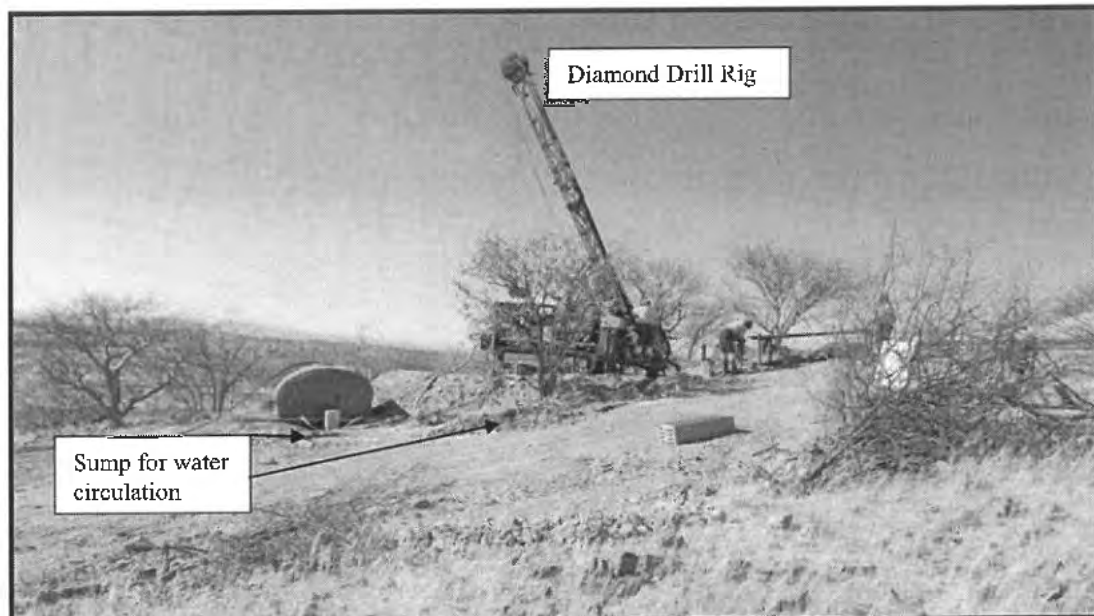


Plate 1: An active Diamond Drill site.

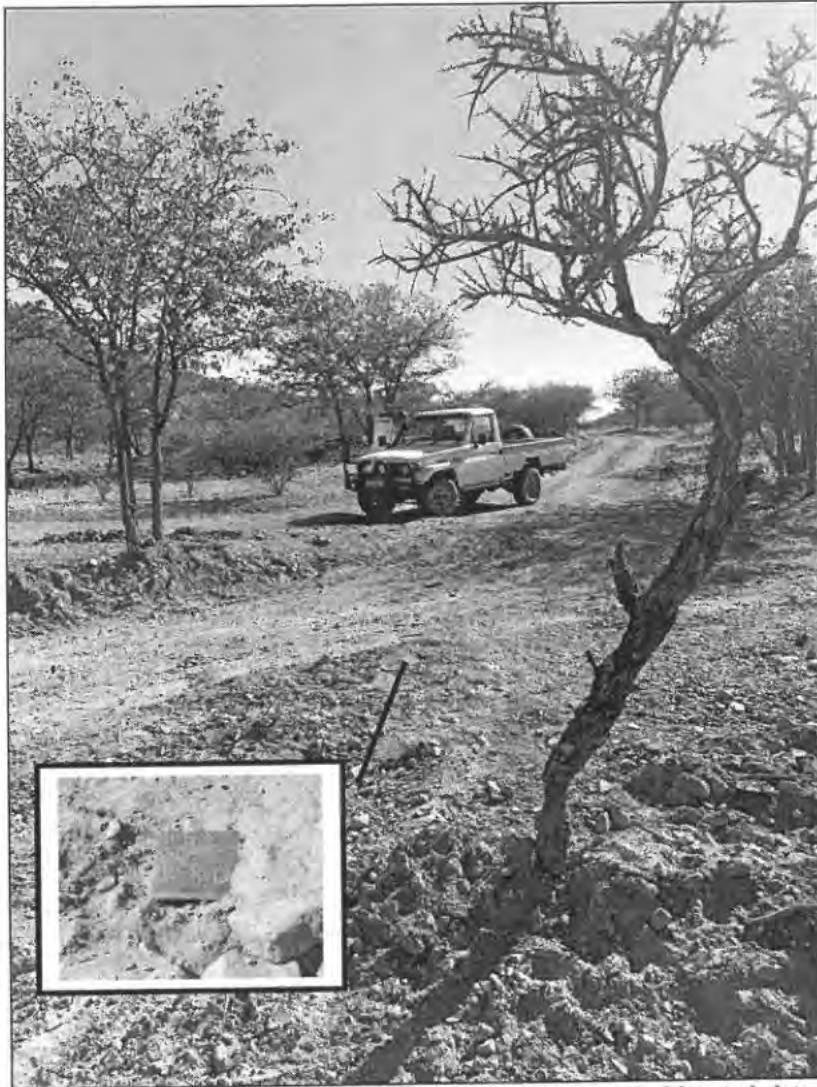


Plate 2: Rehabilitated Diamond Drill site. The borehole is covered with a steel plate (insert) and sumps are refilled and the area is raked. Mopane (in the background) and Witgat (in the foreground) trees are not harmed during exploration activities.

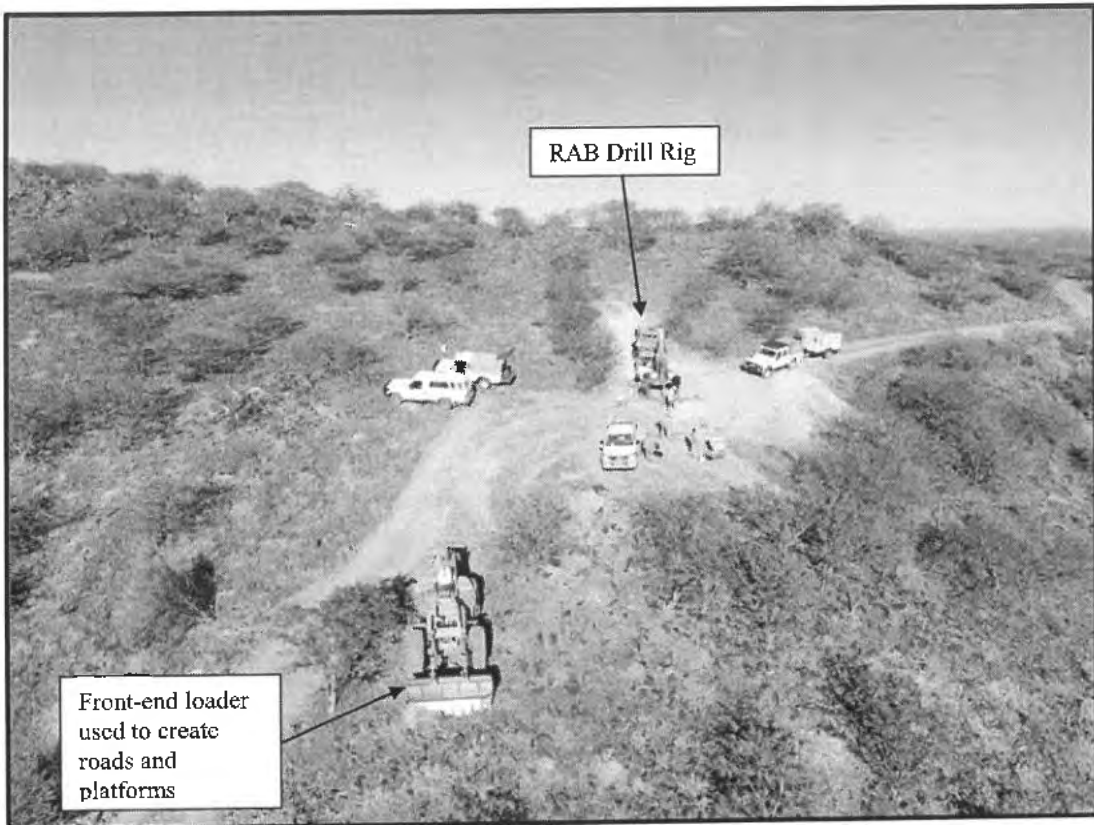
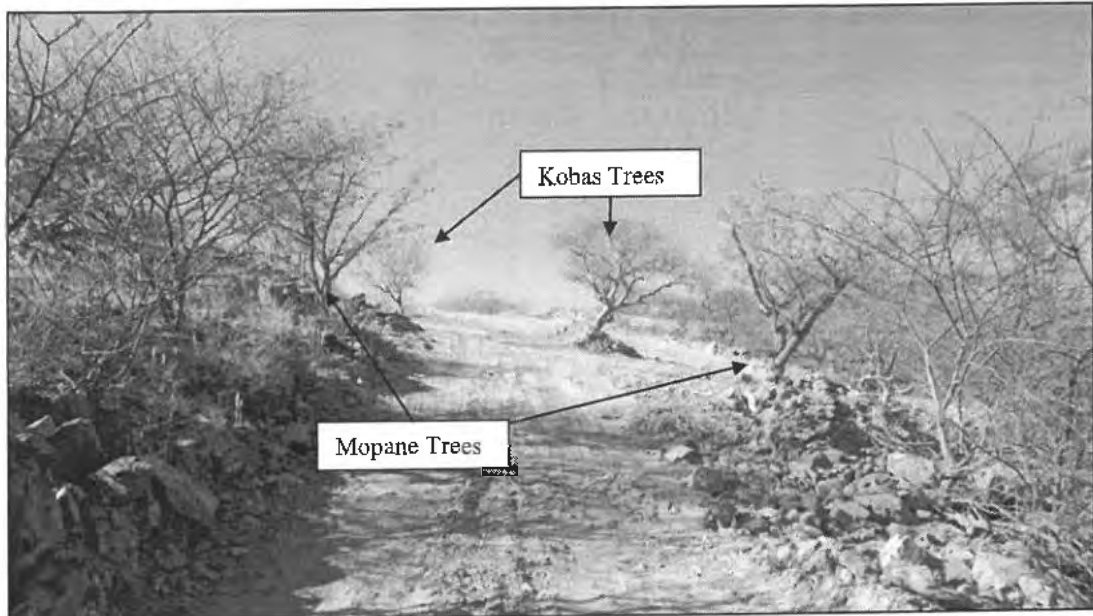


Plate 3: Active RAB percussion drilling site.



Plate 4: One of the two recently drilled water boreholes.



Platc 5: Indigenous trees are avoided when drill sites/tracks are made. Tracks have not been rehabilitated yet as exploration activities are ongoing.

ENVIRONMENTAL REPORT (ER) (Mineral Licence Holders) EPL 3195

INSTRUCTIONS:

1. An Environmental Report shall be submitted to the Ministry of Environment and Tourism (MET) by the following dates each year: -

January to June and from July to December (biannually)

2. This form shall be the minimum reporting format. Mineral Licence Holders are expected to attach a map of the area to this report. Mineral Licence Holders are welcome to attach any other information they like, such as copies of new agreements, letters of explanation, aerial photographs, or anything else of interest.
3. The map shall be used to indicate the following:
 - * areas where activities has taken place,
 - * roads or tracks made and/or used,
 - * houses and other infrastructure erected,
 - * excavations or other scars that have been rehabilitated,
 - * conflict areas, etc.
4. It is recommended (but not compulsory) that Holders attach photographs to their report, which visually illustrate the activities described in their report.
5. Failure to submit an Environmental Report shall constitute a breach of the Environmental Contract, which could result in steps taken against the Holder.
6. All information contained in the Environmental Report shall be treated as confidential.
7. The Holder shall ensure that all the information recorded in the Environmental Report is, to their best knowledge, accurate and correct.

Completed Environmental Reports should be sent to:

The Permanent Secretary
Ministry of Environment and Tourism
Private Bag 13306
Windhoek

For Attention: Ms. S. Angula / Environmental Assessment Unit



A. HOLDER DETAILS AND REPORTING PERIOD :

Name of Holder: Razorback Gold Mining Company (Pty) LTD

Address of Holder: 20 Nachtigal Street, PO Box 80363, Windhoek, Namibia

Telephone: 067 306518 Fax number: 061 416 499 cell: 0812286298
E-mail: tmutilifa@b2gold.com

Name of person compiling report: Thomas Mutilifa

Reference number(s) of Mining Claim area / block / licence: EPL3195

Geographical location of area / block / license: Omaruru District, Erongo Region

This report is for the period of: (tick the relevant box and fill in the year)
 January - June 2021
 July - December 2021
Other (please specify)

B. POLLUTION AND WASTE

Has all domestic refuse (eg. Household waste, bottles, tins, paper, plastic, etc) been removed from the mineral licence area? Yes no

If "yes" above, specify the site where such refuse has been deposited:
Omaruru Municipal waste dump site

How often is refuse removed to the site mentioned above? :
every week
every two weeks
every three weeks
once a month
at irregular intervals

If refuse has not been removed, where has it been dumped? n/a

As far as litter is concerned, would you describe your mineral licence area as : Very clean Reasonably clean Filthy

If your mineral licence area is littered with refuse, please indicate how you intend cleaning it up :
.....

Are toilets provided for all staff employed by the holder : yes no

If "yes" above, are they : Flush toilets Chemical Toilets Pit Latrines Other

If chemical toilets are used, how are old chemicals disposed of :
Deposited in evaporation ponds Deposited in a municipal refuse dump
Buried on site Other (specify)

F. INFRASTRUCTURAL DEVELOPMENT

Infrastructural Developments means any offices, houses, sheds, cement slabs, or other buildings or foundations for buildings. It also includes storage tanks (for water, fuel or other substances), temporary housing such as mobile homes & caravans, prefab units and tented camps. Please report on new construction or additions to buildings you reported on, in your previous Environmental Report.

Was any NEW infrastructure established during this period ?		yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
If "yes" above, is this infrastructure :		Permanent <input type="checkbox"/>	Temporary <input type="checkbox"/> A combination <input type="checkbox"/>
Describe infrastructure by ticking boxes :		Offices <input type="checkbox"/>	Housing <input type="checkbox"/> Sheds <input type="checkbox"/>
		Prefab structure <input type="checkbox"/>	Garages <input type="checkbox"/> Storage tanks <input type="checkbox"/>
		Cement slabs <input type="checkbox"/>	Foundations <input type="checkbox"/> Other <input type="checkbox"/>
If "other", please specify : ...			

G. BOREHOLES, SAMPLE HOLES OR OTHER DRILLING

This category includes holes drilled for water, for taking mineral or other samples, for setting explosives, for testing mineral quality, or any other purpose.

Were any holes drilled during this period ?		yes <input type="checkbox"/>	no <input checked="" type="checkbox"/>
If "yes", for which purpose were they drilled ?		Water <input type="checkbox"/>	
		Sampling <input type="checkbox"/>	
		Explosives <input type="checkbox"/>	depth <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Quantity <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Other <input type="checkbox"/> (specify)			

H. WATER

Your estimated monthly water consumption during this period was: 20,000 cubic metres

Water was obtained from : River Borehole Dam Water Affairs Other

Please estimate the percentage of water used for the following activities during this period:		Were there any accidents which caused a loss of water ? yes <input type="checkbox"/> no <input checked="" type="checkbox"/> If "yes", please give details:
Human consumption	30.0 %	
Toilets	30.0 %	
Prospecting activities	10.0 %	
Washing vehicles & equipment	30 %	
Dust control	0%	
Building activities	0 %	
Gardens	0%	
Recreation	0%	
Other (specify)	0%	

I. PROTECTION OF FAUNA AND FLORA

Please answer the following questions by ticking the appropriate boxes :

Question :	Yes	No	Unsure
Were any mammals, birds, reptiles or fish killed or wounded (purposefully or accidentally) in the mining licence site or area ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were any plants (excluding grasses) picked, damaged or removed ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Was there any wood collecting in the area ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

J. RELATIONS WITH NEIGHBOURS, OFFICIALS AND/OR THE GENERAL PUBLIC

Were there any conflicts with neighbours, land-owners, Government Officials or the public during this period ? Yes No

If "yes" above, what was the nature of these conflicts ? (tick boxes to provide answers)

People entered the area without permission or prior arrangement	<input type="checkbox"/>
Complaints about reduced access to water or other resources	<input type="checkbox"/>
Complaints about danger posed to livestock or wildlife	<input type="checkbox"/>
Allegations about stock-theft or poaching	<input type="checkbox"/>
Complaints about vehicle or equipment movement on access roads / tracks	<input type="checkbox"/>
Complaints about litter or other types of pollution (eg. Noise, dust, etc.)	<input type="checkbox"/>
Complaints about the activities / actions of Holder staff	<input type="checkbox"/>
Allegations that the Holder was not adhering to contracts / agreements	<input type="checkbox"/>
Allegations that the Holder damaged property or installations	<input type="checkbox"/>
Allegations that gates were left open or unlocked	<input type="checkbox"/>
Other (specify).....	<input type="checkbox"/>

If conflicts arose, indicate how these were resolved ? (tick boxes)

Verbal agreement after discussions.....	<input type="checkbox"/>
Written agreement by special contract.....	<input type="checkbox"/>
Instructions to Holder staff to avoid conflicts.....	<input type="checkbox"/>
Holder rectified its mistakes and undertook to avoid future wrong-doing.	<input type="checkbox"/>
Court action or other third party arbitration.....	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>
The conflicts remain unsolved.....	<input type="checkbox"/>

Any other comments or information :

See next page for more space for "additional comments".....Additional comments continued

.....
.....
.....

I declare that the information provided in this Environmental Report is, to the best of my knowledge, accurate and correct.



09th July 2021

.....
Holder
Senior Exploration Geologist

.....
Date

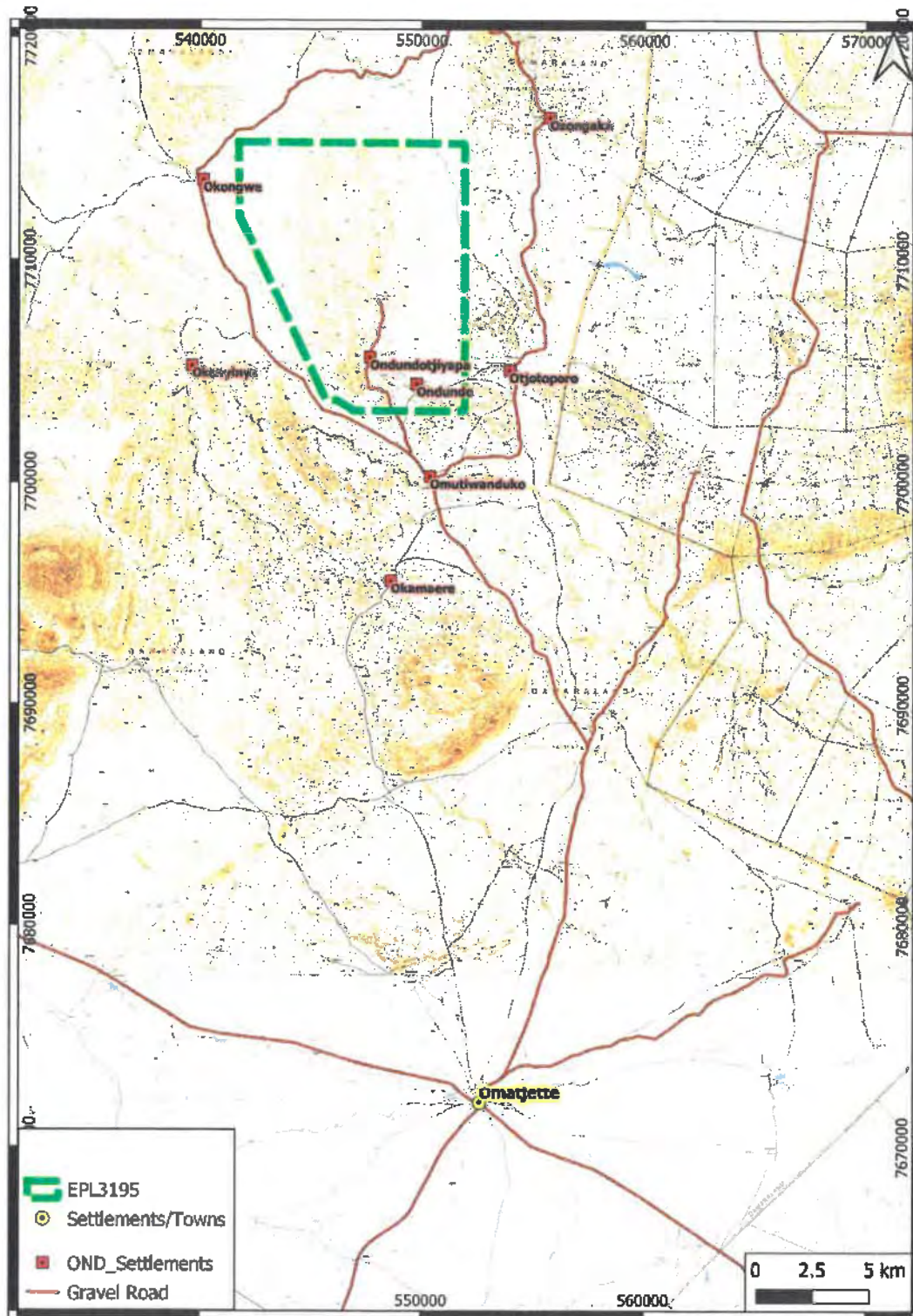


Figure 1: Regional locality plan for EPL 3195 in the Erongo Region



ENVIRONMENTAL REPORT (ER) (Mineral Licence Holders) EPL 3195

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Name of Holder: Razorback Gold Mining Company (Pty) LTD

Address of Holder: 8 Sinclair Street, PO Box 80363, Windhoek, Namibia

Telephone: 067 306518 Fax number: 061 295 8799 cell: 0812286298
E-mail: tmutilifa@b2gold.com

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Geographical location of area / block / license: Omaruru District, Erongo Region

This report is for the period of: (tick the relevant box and fill in the year)
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 July - December 2021
Other (please specify)

B. POLLUTION AND WASTE

Has all domestic refuse (eg. Household waste, bottles, tins, paper, plastic, etc) been removed from the mineral licence area? Yes no

If "yes" above, specify the site where such refuse has been deposited:
Omaruru Municipal waste dump site

How often is refuse removed to the site mentioned above? : every week
every two weeks
every three weeks
once a month
at irregular intervals

If refuse has not been removed, where has it been dumped? n/a

As far as litter is concerned, would you describe your mineral licence area as : Very clean Reasonably clean Filthy

If your mineral licence area is littered with refuse, please indicate how you intend cleaning it up :
.....

Are toilets provided for all staff employed by the holder : yes no

If "yes" above, are they : Flush toilets Chemical Toilets Pit Latrines Other

If chemical toilets are used, how are old chemicals disposed of :
Deposited in evaporation ponds Deposited in a municipal refuse dump
Buried on site Other (specify)

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Infrastructural Developments means any offices, houses, sheds, cement slabs, or other buildings or foundations for buildings. It also includes storage tanks (for water, fuel or other substances), temporary housing such as mobile homes & caravans, prefab units and tented camps. Please report on new construction or additions to buildings you reported on, in your previous Environmental Report.

Was any NEW infrastructure established during this period ?	yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
If "yes" above, is this infrastructure :	Permanent	<input type="checkbox"/>	Temporary	<input type="checkbox"/>
			A combination	<input type="checkbox"/>
Describe infrastructure by ticking boxes :	Offices	<input type="checkbox"/>	Housing	<input type="checkbox"/>
	Prefab structure	<input type="checkbox"/>	Garages	<input type="checkbox"/>
	Cement slabs	<input type="checkbox"/>	Foundations	<input type="checkbox"/>
			Sheds	<input type="checkbox"/>
			Storage tanks	<input type="checkbox"/>
			Other	<input type="checkbox"/>
If "other", please specify : ...				

G. BOREHOLES, SAMPLE HOLES OR OTHER DRILLING

This category includes holes drilled for water, for taking mineral or other samples, for setting explosives, for testing mineral quality, or any other purpose.

Were any holes drilled during this period ?	yes	<input type="checkbox"/>	no	<input checked="" type="checkbox"/>
If "yes", for which purpose were they drilled ?	Water	<input type="checkbox"/>		
	Sampling	<input type="checkbox"/>		
	Explosives	<input type="checkbox"/>	depth	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
			Quantity	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Other <input type="checkbox"/> (specify)				

H. WATER

Your estimated <u>monthly</u> water consumption during this period was: 20,000 cubic metres

Water was obtained from :	River	<input type="checkbox"/>	Borehole	<input checked="" type="checkbox"/>	Dam	<input type="checkbox"/>	Water Affairs	<input type="checkbox"/>	Other	<input type="checkbox"/>
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Please estimate the percentage of water used for the following activities during this period:	
Human consumption	30.0 %
Toilets	30.0 %
Prospecting activities	10.0 %
Washing vehicles & equipment	30 %
Dust control	0%
Building activities	0 %
Gardens	0%
Recreation	0%
Other (specify)	0%

Were there any accidents which caused a loss of water ? yes no

If "yes", please give details

.....

.....

I. PROTECTION OF FAUNA AND FLORA

Please answer the following questions by ticking the appropriate boxes :

Question :	Yes	No	Unsure
Were any mammals, birds, reptiles or fish killed or wounded (purposefully or accidentally) in the mining licence site or area ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were any plants (excluding grasses) picked, damaged or removed ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Was there any wood collecting in the area ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

J. RELATIONS WITH NEIGHBOURS, OFFICIALS AND/OR THE GENERAL PUBLIC

Were there any conflicts with neighbours, land-owners, Government Officials or the public during this period ? Yes No

If "yes" above, what was the nature of these conflicts ? (tick boxes to provide answers)

People entered the area without permission or prior arrangement	<input type="checkbox"/>
Complaints about reduced access to water or other resources	<input type="checkbox"/>
Complaints about danger posed to livestock or wildlife	<input type="checkbox"/>
Allegations about stock-theft or poaching	<input type="checkbox"/>
Complaints about vehicle or equipment movement on access roads / tracks	<input type="checkbox"/>
Complaints about litter or other types of pollution (eg. Noise, dust, etc.)	<input type="checkbox"/>
Complaints about the activities / actions of Holder staff	<input type="checkbox"/>
Allegations that the Holder was not adhering to contracts / agreements	<input type="checkbox"/>
Allegations that the Holder damaged property or installations	<input type="checkbox"/>
Allegations that gates were left open or unlocked	<input type="checkbox"/>
Other (specify).....	<input type="checkbox"/>

If conflicts arose, indicate how these were resolved ? (tick boxes)

Verbal agreement after discussions.....	<input type="checkbox"/>
Written agreement by special contract.....	<input type="checkbox"/>
Instructions to Holder staff to avoid conflicts.....	<input type="checkbox"/>
Holder rectified its mistakes and undertook to avoid future wrong-doing.	<input type="checkbox"/>
Court action or other third party arbitration.....	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>
The conflicts remain unsolved.....	<input type="checkbox"/>

Any other comments or information :

.....
.....
.....

I declare that the information provided in this Environmental Report is, to the best of my knowledge, accurate and correct.

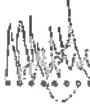


10th January 2022

.....
Holder
Senior Exploration Geologist

.....
Date

Reviewed by:



11 January 2022

.....
Technical Services Manager

.....
Date

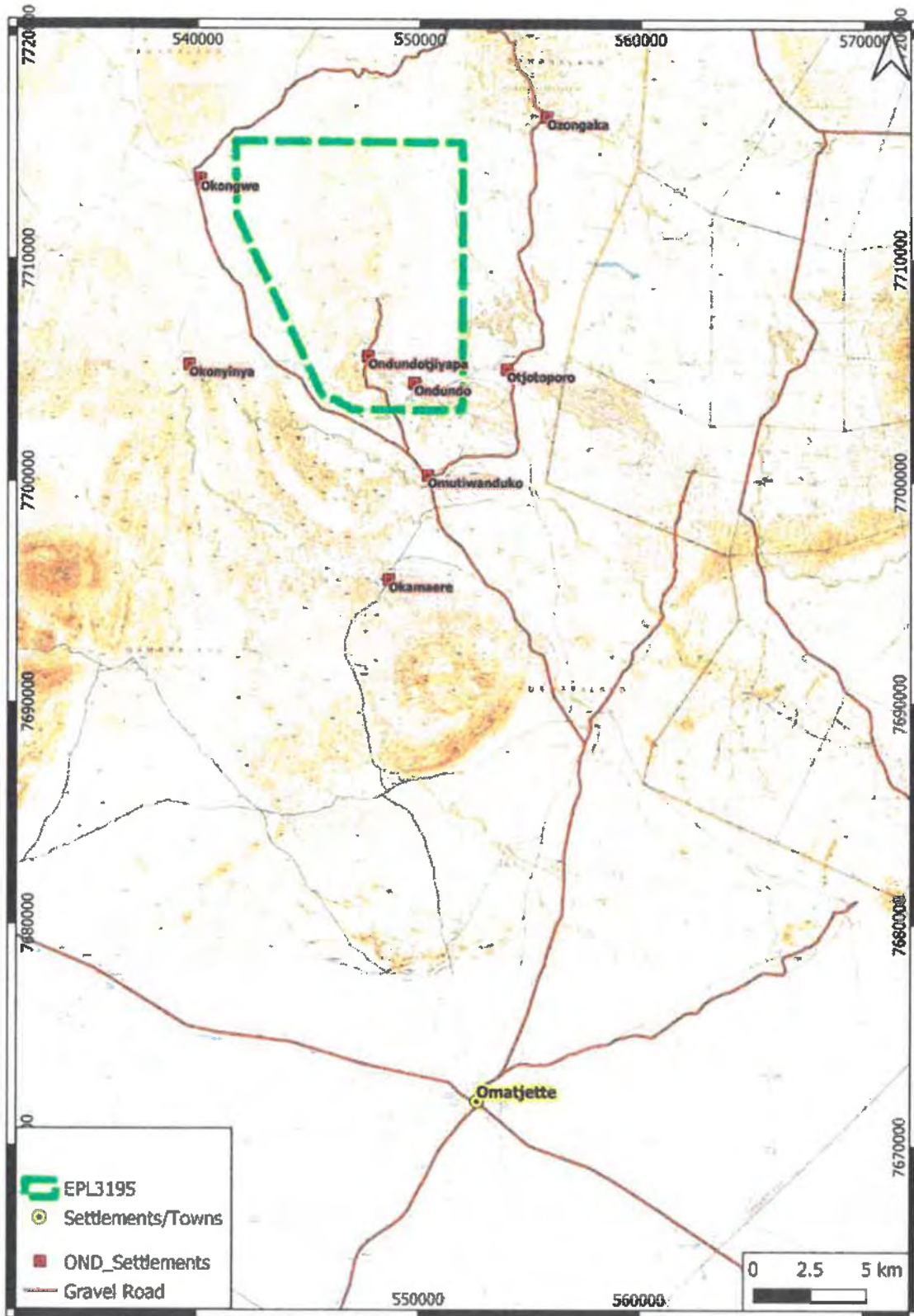


Figure 1: EPL3195 locality map.

ENVIRONMENTAL REPORT (ER) (Mineral Licence Holders) EPL 3195

INSTRUCTIONS:

1. An Environmental Report shall be submitted to the Ministry of Environment and Tourism (MET) by the following dates each year: -

January to June and from July to December (biannually)

2. This form shall be the minimum reporting format. Mineral Licence Holders are expected to attach a map of the area to this report. Mineral Licence Holders are welcome to attach any other information they like, such as copies of new agreements, letters of explanation, aerial photographs, or anything else of interest.

3. The map shall be used to indicate the following:

- * areas where activities has taken place,
- * roads or tracks made and/or used,
- * houses and other infrastructure erected,
- * excavations or other scars that have been rehabilitated,
- * conflict areas, etc.

4. It is recommended (but not compulsory) that Holders attach photographs to their report, which visually illustrate the activities described in their report.

5. Failure to submit an Environmental Report shall constitute a breach of the Environmental Contract, which could result in steps taken against the Holder.

6. All information contained in the Environmental Report shall be treated as confidential.

7. The Holder shall ensure that all the information recorded in the Environmental Report is, to their best knowledge, accurate and correct.



Completed Environmental Reports should be sent to:

The Permanent Secretary
Ministry of Environment and Tourism
Private Bag 13306
Windhoek

For Attention: Ms. S. Angula / Environmental Assessment Unit

A. HOLDER DETAILS AND REPORTING PERIOD :

Name of Holder: Razorback Gold Mining Company (Pty) LTD

Address of Holder: 20 Nachtigal Street, PO Box 80363, Windhoek, Namibia

Telephone: 067 306518 Fax number: 061 416 499 cell: 0812286298
E-mail: tmutilifa@b2gold.com

Name of person compiling report: Thomas Mutilifa

Reference number(s) of Mining Claim area / block / licence: EPL3195

Geographical location of area / block / license: Omaruru District, Erongo Region

This report is for the period of: (tick the relevant box and fill in the year)

- January - June 2020
 July - December 2020

Other (please specify)

B. POLLUTION AND WASTE

Has all domestic refuse (eg. Household waste, bottles, tins, paper, plastic, etc) been removed from the mineral licence area? Yes no

If "yes" above, specify the site where such refuse has been deposited:
Omaruru Municipal waste dump site

How often is refuse removed to the site mentioned above? : every week
every two weeks
every three weeks
once a month
at irregular intervals

If refuse has not been removed, where has it been dumped? n/a

As far as litter is concerned, would you describe your mineral licence area as : Very clean Reasonably clean Filthy

If your mineral licence area is littered with refuse, please indicate how you intend cleaning it up :
.....

Are toilets provided for all staff employed by the holder : yes no

If "yes" above, are they : Flush toilets Chemical Toilets Pit Latrines Other

If chemical toilets are used, how are old chemicals disposed of :
Deposited in evaporation ponds Deposited in a municipal refuse dump
Buried on site Other (specify)

C. VEHICLES AND EARTHMOVING EQUIPMENT

Indicate the types and number of vehicles and earthmoving equipment used on site during the reporting period (tick box in front of the category of vehicles used and then fill in the next boxes to indicate numbers)

<input checked="" type="checkbox"/> Pick-up trucks ("bakkies"), either 2x4 or 4x4	How many in use	6
<input checked="" type="checkbox"/> Lorries / trucks between 5 - 10 ton capacity	How many in use	1
<input type="checkbox"/> Lorries / trucks larger than 10 ton capacity	How many in use	0
<input type="checkbox"/> Bulldozer of any size	How many in use	0
<input type="checkbox"/> Road Grader of any size	How many in use	0
<input checked="" type="checkbox"/> Front-end loader of any size	How many in use	1
<input checked="" type="checkbox"/> Drilling machine of any type	How many in use	1
<input type="checkbox"/> Other (specify) ... Backhoe.....	How many in use	0

D. ROADS AND TRACKS *In addition to ticking the following boxes, please draw roads/tracks made on an accompanying map in blue ink. Roads which have been rehabilitated (ie. restored to their natural state) can be scratched out in red pen.*

Have new roads or tracks been made during the reporting period ? yes no

If "yes" above how long are these (in kilometres) ? 0.75km

If "yes" above are these still in use ? yes no

If "no" above have any of these roads or tracks been rehabilitated ? yes no

If "yes" above, how have you done such rehabilitation ? : Ripping Raking sweeping
Other (specify)

If road / track rehabilitation has taken place, how many kilometres of roads or tracks have been rehabilitated ? kilometres

E. TRENCHES OR PITS: *If new trenches or pits were made in the site / area during the reporting period, please indicate these by ticking the appropriate boxes AND by means of illustrating them on the same map described above. New pits or trenches made, should be numbered and drawn as a CIRCLE in blue ink, while pits or trenches which were rehabilitated during the reporting period should be scratched out in RED ink.*

Have new trenches or pits been excavated in your area during the reporting period ? yes no

If "yes" above, what are their approximate sizes or dimensions ? (in metres)

Were any holes/trenches rehabilitated during this period of reporting ? yes (show on map) no

F. INFRASTRUCTURAL DEVELOPMENT

Infrastructural Developments means any offices, houses, sheds, cement slabs, or other buildings or foundations for buildings. It also includes storage tanks (for water, fuel or other substances), temporary housing such as mobile homes & caravans, prefab units and tented camps. Please report on new construction or additions to buildings you reported on, in your previous Environmental Report.

Was any NEW infrastructure established during this period ?	yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
If "yes" above, is this infrastructure :	Permanent <input type="checkbox"/>	Temporary <input type="checkbox"/>	A combination <input type="checkbox"/>
Describe infrastructure by ticking boxes :	Offices <input type="checkbox"/>	Housing <input type="checkbox"/>	Sheds <input type="checkbox"/>
	Prefab structure <input type="checkbox"/>	Garages <input type="checkbox"/>	Storage tanks <input type="checkbox"/>
	Cement slabs <input type="checkbox"/>	Foundations <input type="checkbox"/>	Other <input type="checkbox"/>
	If "other", please specify : ...		

G. BOREHOLES, SAMPLE HOLES OR OTHER DRILLING

This category includes holes drilled for water, for taking mineral or other samples, for setting explosives, for testing mineral quality, or any other purpose.

Were any holes drilled during this period ?	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>
If "yes", for which purpose were they drilled ?	Water <input type="checkbox"/>	
	Sampling <input checked="" type="checkbox"/>	max depth 509.82m, 7 holes
	Explosives <input type="checkbox"/>	depth <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Quantity <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	Other <input type="checkbox"/> (specify)	

H. WATER

Your estimated monthly water consumption during this period was: 85,000 cubic metres

Water was obtained from : River Borehole Dam Water Affairs Other

Please estimate the percentage of water used for the following activities during this period:		Were there any accidents which caused a loss of water ? yes <input type="checkbox"/> no <input checked="" type="checkbox"/> If "yes", please give details:
Human consumption	10.0 %	
Toilets	10.0 %	
Prospecting activities	80.0 %	
Washing vehicles & equipment	0.001 %	
Dust control	0%	
Building activities	0 %	
Gardens	0%	
Recreation	0%	
Other (specify)	0%	

I. PROTECTION OF FAUNA AND FLORA

Please answer the following questions by ticking the appropriate boxes :

Question :	Yes	No	Unsure
Were any mammals, birds, reptiles or fish killed or wounded (purposefully or accidentally) in the mining licence site or area ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were any plants (excluding grasses) picked, damaged or removed ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was there any wood collecting in the area ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

J. RELATIONS WITH NEIGHBOURS, OFFICIALS AND/OR THE GENERAL PUBLIC

Were there any conflicts with neighbours, land-owners, Government Officials or the public during this period ?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
If "yes" above, what was the nature of these conflicts ? (tick boxes to provide answers)		
People entered the area without permission or prior arrangement	<input type="checkbox"/>	
Complaints about reduced access to water or other resources	<input type="checkbox"/>	
Complaints about danger posed to livestock or wildlife	<input type="checkbox"/>	
Allegations about stock-theft or poaching	<input type="checkbox"/>	
Complaints about vehicle or equipment movement on access roads / tracks	<input type="checkbox"/>	
Complaints about litter or other types of pollution (eg. Noise, dust, etc.)	<input type="checkbox"/>	
Complaints about the activities / actions of Holder staff	<input type="checkbox"/>	
Allegations that the Holder was not adhering to contracts / agreements	<input type="checkbox"/>	
Allegations that the Holder damaged property or installations	<input type="checkbox"/>	
Allegations that gates were left open or unlocked	<input type="checkbox"/>	
Other (specify).....	<input type="checkbox"/>	

If conflicts arose, indicate how these were resolved ? (tick boxes)	
Verbal agreement after discussions.....	<input type="checkbox"/>
Written agreement by special contract.....	<input type="checkbox"/>
Instructions to Holder staff to avoid conflicts.....	<input type="checkbox"/>
Holder rectified its mistakes and undertook to avoid future wrong-doing.	<input type="checkbox"/>
Court action or other third party arbitration.....	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>
The conflicts remain unsolved.....	<input type="checkbox"/>

Any other comments or information :

See next page for more space for "additional comments".....Additional comments continued

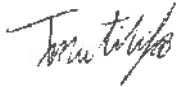
.....
Platforms were created to drill boreholes (Diamond) at 7 sites (Table 1). These sites are shown in figure 2.

Diamond drill sites are rehabilitated by filling up the sumps used for water recirculation and raking the area. The borehole is covered with a steel plate for future identification. Plate 1 and 2 show an active Diamond drilling site and a rehabilitated site respectively.

.....
Note that bulldozing of access routes (with a front end loader), followed mostly existing overgrown grid lines. A few new roads/tracks totalling 750m were created to access new areas. The tracks were not rehabilitated yet as they are still being used for exploration activities. Bulldozing did not harm any of the indigenous trees (Plate 3).

Indigenous trees in the area include Colophospermum mopane (Mopane), Boscia albitrunca (Witgat) and Cyphostemma currorii (Kobas).

I declare that the information provided in this Environmental Report is, to the best of my knowledge, accurate and correct.



11th January 2021

.....
Holder
Exploration Geologist

.....
Date

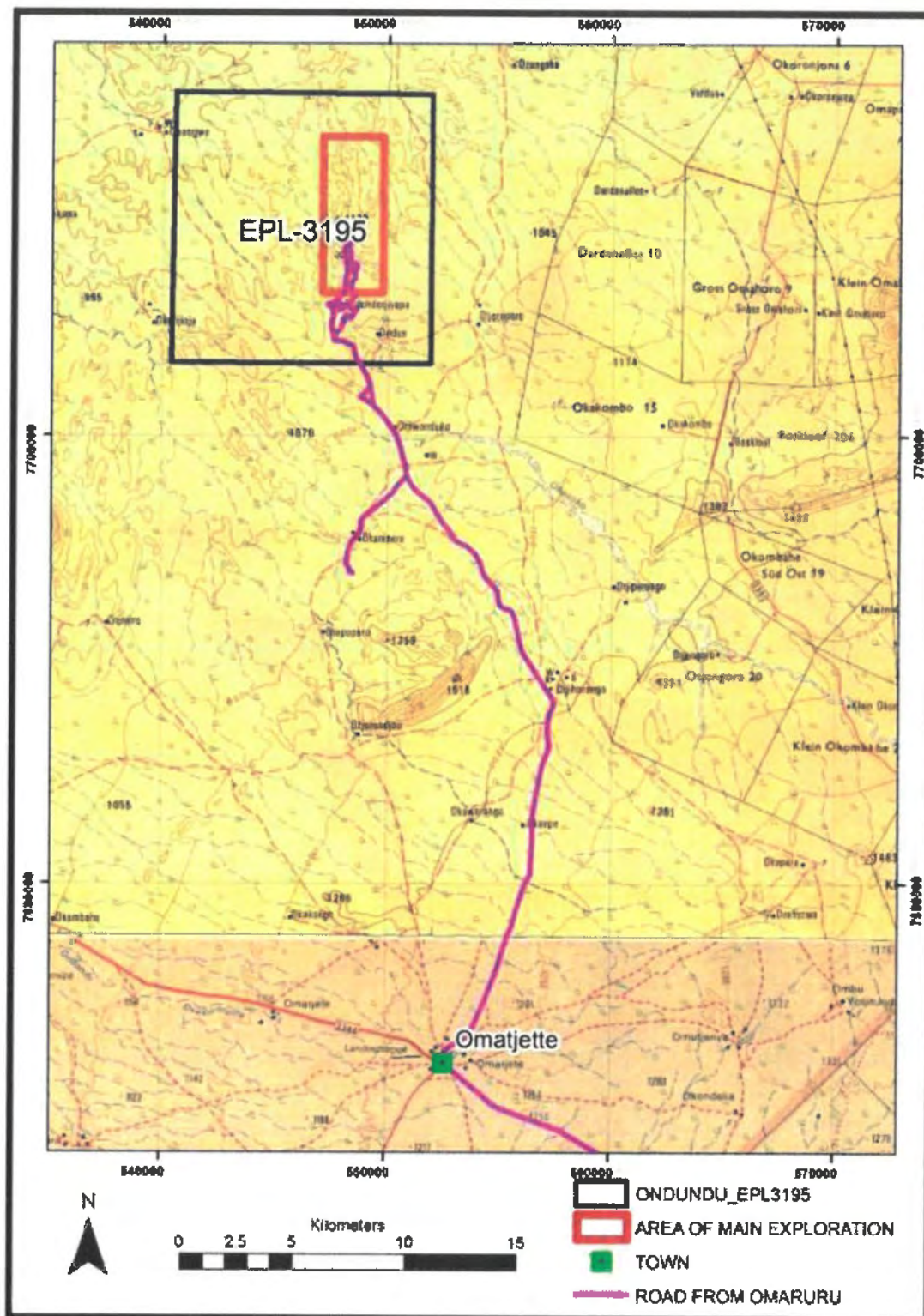


Figure 1: Regional locality plan for EPL 3195 in the Erongo Region

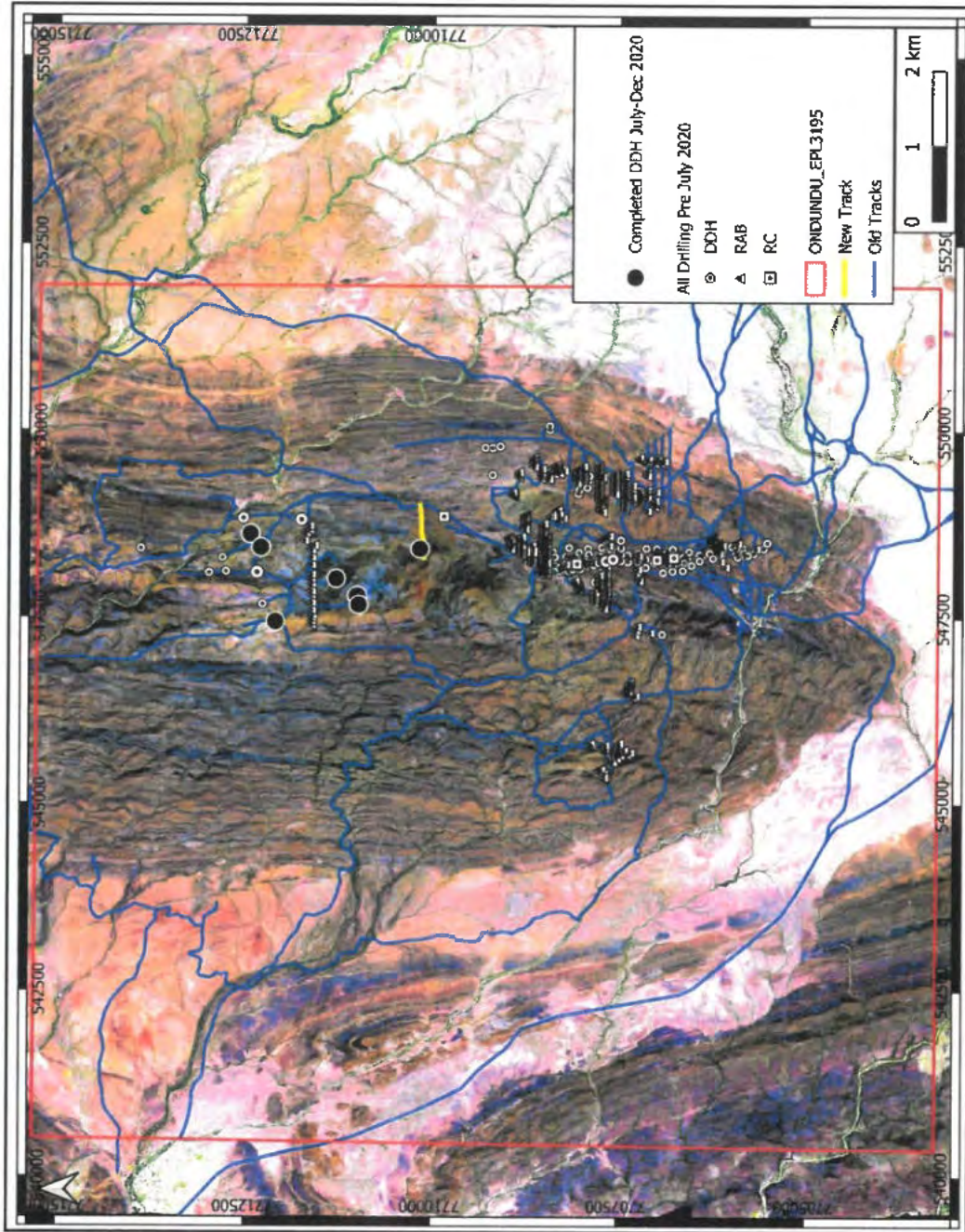


Figure 2. Location of tracks and drillholes.

Table 1: List of Diamond Drillholes drilled between July and December 2020.

HOLE NO	LATITUDE	LONGITUDE	TYPE (PERCUSSION, DIAMOND, RC)	PROGRESS	INCLINATION	DIRECTION	DEPTH (m)
ON20-218	-20.686923	15.466824	DIAMOND	COMPLETE	-60	235	434.67
ON20-219	-20.688206	15.465085	DIAMOND	COMPLETE	-60	55	200.67
ON20-220	-20.697346	15.461093	DIAMOND	COMPLETE	-80	205	509.82
ON20-221	-20.689990	15.455557	DIAMOND	COMPLETE	-65	50	407.07
ON20-222	-20.707409	15.464987	DIAMOND	COMPLETE	-65	235	407.67
ON20-223	-20.699882	15.458881	DIAMOND	COMPLETE	-65	180	246.25
ON20-224	-20.700075	15.457758	DIAMOND	COMPLETE	-70	200	350.77



Plate 1: An active Diamond Drill site.

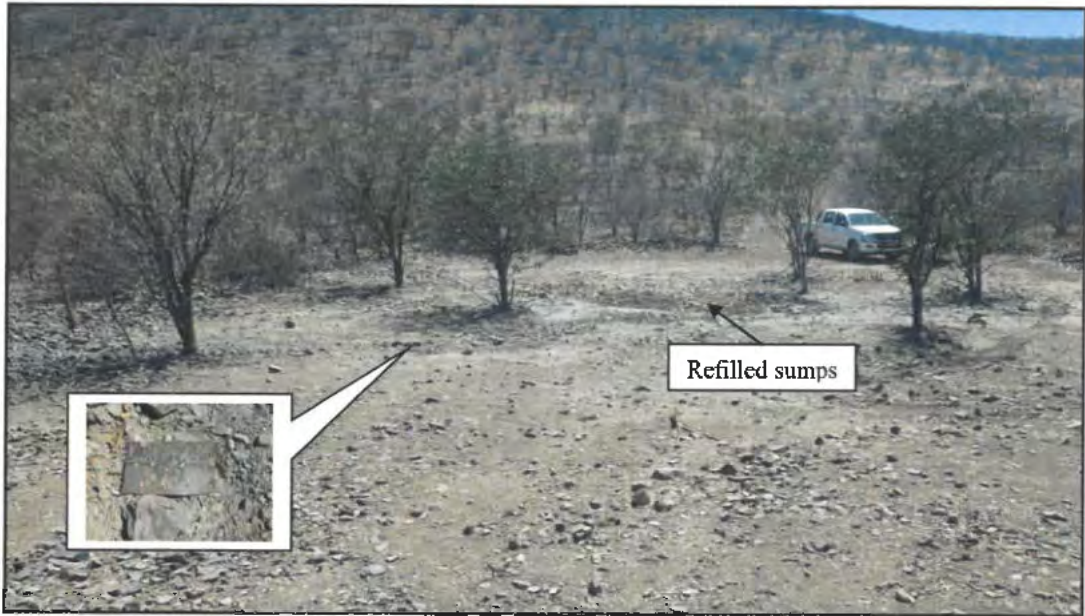


Plate 2: Rehabilitated Diamond Drill site. The borehole is covered with a steel plate (insert) and sumps are refilled and the area is raked. Mopane trees are not harmed during exploration activities.

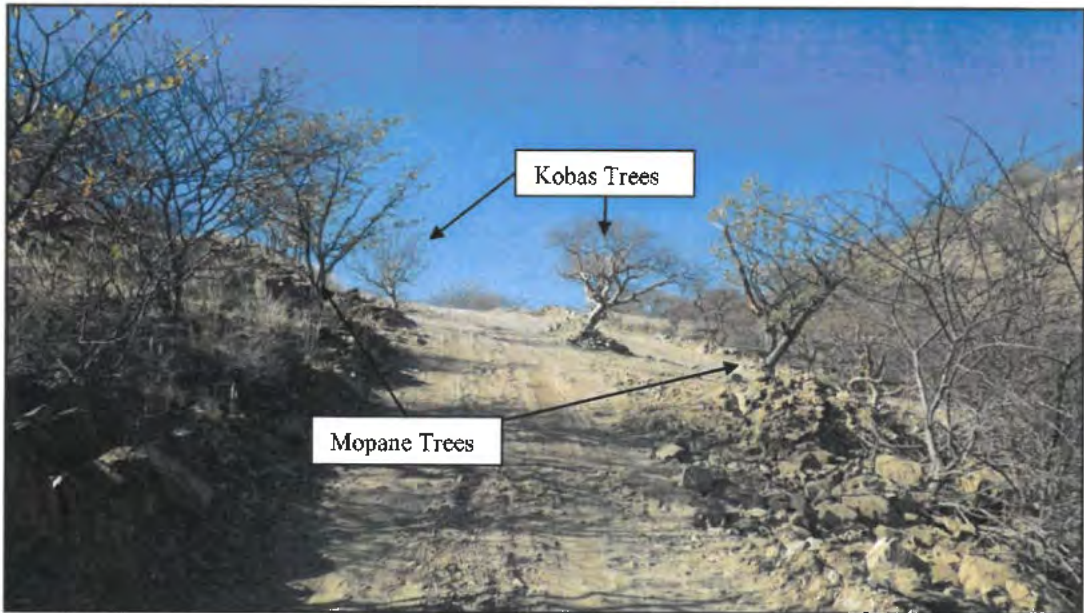


Plate 3: Indigenous trees are avoided when drill sites/tracks are made. Tracks have not been rehabilitated yet as exploration activities are ongoing.

ENVIRONMENTAL REPORT (ER)

(Mineral Licence Holders)

EPL 3195

INSTRUCTIONS:

1. An Environmental Report shall be submitted to the Ministry of Environment and Tourism (MET) by the following dates each year: -

January to June and from July to December (biannually)

2. This form shall be the minimum reporting format. Mineral Licence Holders are expected to attach a map of the area to this report. Mineral Licence Holders are welcome to attach any other information they like, such as copies of new agreements, letters of explanation, aerial photographs, or anything else of interest.
3. The map shall be used to indicate the following:
 - * areas where activities has taken place,
 - * roads or tracks made and/or used,
 - * houses and other infrastructure erected,
 - * excavations or other scars that have been rehabilitated,
 - * conflict areas, etc.
4. It is recommended (but not compulsory) that Holders attach photographs to their report, which visually illustrate the activities described in their report.
5. Failure to submit an Environmental Report shall constitute a breach of the Environmental Contract, which could result in steps taken against the Holder.
6. All information contained in the Environmental Report shall be treated as confidential.
7. The Holder shall ensure that all the information recorded in the Environmental Report is, to their best knowledge, accurate and correct.

Completed Environmental Reports should be sent to:

**The Permanent Secretary
Ministry of Environment and Tourism
Private Bag 13306
Windhoek**

For Attention: Ms. S. Angula / Environmental Assessment Unit

A. HOLDER DETAILS AND REPORTING PERIOD :

Name of Holder: Razorback Gold Mining Company (Pty) LTD

Address of Holder: 20 Nachtigal Street, PO Box 80363, Windhoek, Namibia

Telephone: 067 306518 Fax number: 061 416 499 cell: 0812286298
E-mail: tmutilifa@b2gold.com

Name of person compiling report: Thomas Mutilifa

Reference number(s) of Mining Claim area / block / licence: EPL3195

Geographical location of area / block / license: Omaruru District, Erongo Region

This report is for the period of: (tick the relevant box and fill in the year)

January - June 2019
 July - December 2019

Other (please specify)

B. POLLUTION AND WASTE

Has all domestic refuse (eg. Household waste, bottles, tins, paper, plastic, etc) been removed from the mineral licence area? Yes no

If "yes" above, specify the site where such refuse has been deposited:
Omaruru Municipal waste dump site

How often is refuse removed to the site mentioned above? : every week
every two weeks
every three weeks
once a month
at irregular intervals

If refuse has not been removed, where has it been dumped? n/a

As far as litter is concerned, would you describe your mineral licence area as : Very clean Reasonably clean Filthy

If your mineral licence area is littered with refuse, please indicate how you intend cleaning it up :
.....

Are toilets provided for all staff employed by the holder : yes no

If "yes" above, are they : Flush toilets Chemical Toilets Pit Latrines Other

If chemical toilets are used, how are old chemicals disposed of :
Deposited in evaporation ponds Deposited in a municipal refuse dump
Buried on site Other (specify)

F. INFRASTRUCTURAL DEVELOPMENT

Infrastructural Developments means any offices, houses, sheds, cement slabs, or other buildings or foundations for buildings. It also includes storage tanks (for water, fuel or other substances), temporary housing such as mobile homes & caravans, prefab units and tented camps. Please report on new construction or additions to buildings you reported on, in your previous Environmental Report.

Was any NEW infrastructure established during this period ?	yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
If "yes" above, is this infrastructure :	Permanent <input type="checkbox"/>	Temporary <input type="checkbox"/>	A combination <input type="checkbox"/>
Describe infrastructure by ticking boxes :	Offices <input type="checkbox"/>	Housing <input type="checkbox"/>	Sheds <input type="checkbox"/>
	Prefab structure <input type="checkbox"/>	Garages <input type="checkbox"/>	Storage tanks <input type="checkbox"/>
	Cement slabs <input type="checkbox"/>	Foundations <input type="checkbox"/>	Other <input type="checkbox"/>
	If "other", please specify : ...		

G. BOREHOLES, SAMPLE HOLES OR OTHER DRILLING

This category includes holes drilled for water, for taking mineral or other samples, for setting explosives, for testing mineral quality, or any other purpose.

Were any holes drilled during this period ?	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>
If "yes", for which purpose were they drilled ?	Water <input type="checkbox"/>	
	Sampling <input checked="" type="checkbox"/>	max depth 252m, 11 holes
	Explosives <input type="checkbox"/>	depth <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Quantity <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Other <input type="checkbox"/> (specify)		

H. WATER

Your estimated monthly water consumption during this period was: 50,000 cubic metres

Water was obtained from : River Borehole Dam Water Affairs Other

Please estimate the percentage of water used for the following activities during this period:		Were there any accidents which caused a loss of water ? yes <input type="checkbox"/> no <input checked="" type="checkbox"/> If "yes", please give details:
Human consumption	20.0 %	
Toilets	20.0 %	
Prospecting activities	60.0 %	
Washing vehicles & equipment	0.001 %	
Dust control	0%	
Building activities	0 %	
Gardens	0%	
Recreation	0%	
Other (specify)	0%	

I. PROTECTION OF FAUNA AND FLORA

Please answer the following questions by ticking the appropriate boxes :

Question :	Yes	No	Unsure
Were any mammals, birds, reptiles or fish killed or wounded (purposefully or accidentally) in the mining licence site or area ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were any plants (excluding grasses) picked, damaged or removed ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Was there any wood collecting in the area ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

J. RELATIONS WITH NEIGHBOURS, OFFICIALS AND/OR THE GENERAL PUBLIC

Were there any conflicts with neighbours, land-owners, Government Officials or the public during this period ? Yes No

If "yes" above, what was the nature of these conflicts ? (tick boxes to provide answers)

People entered the area without permission or prior arrangement	<input type="checkbox"/>
Complaints about reduced access to water or other resources	<input type="checkbox"/>
Complaints about danger posed to livestock or wildlife	<input type="checkbox"/>
Allegations about stock-theft or poaching	<input type="checkbox"/>
Complaints about vehicle or equipment movement on access roads / tracks	<input type="checkbox"/>
Complaints about litter or other types of pollution (eg. Noise, dust, etc.)	<input type="checkbox"/>
Complaints about the activities / actions of Holder staff	<input type="checkbox"/>
Allegations that the Holder was not adhering to contracts / agreements	<input type="checkbox"/>
Allegations that the Holder damaged property or installations	<input type="checkbox"/>
Allegations that gates were left open or unlocked	<input type="checkbox"/>
Other (specify).....	<input type="checkbox"/>

If conflicts arose, indicate how these were resolved ? (tick boxes)

Verbal agreement after discussions.....	<input type="checkbox"/>
Written agreement by special contract.....	<input type="checkbox"/>
Instructions to Holder staff to avoid conflicts.....	<input type="checkbox"/>
Holder rectified its mistakes and undertook to avoid future wrong-doing.	<input type="checkbox"/>
Court action or other third party arbitration.....	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>
The conflicts remain unsolved.....	<input type="checkbox"/>

Any other comments or information :

See next page for more space for "additional comments".....Additional comments continued

.....
Eleven Diamond drill platforms were created to drill 11 diamond drillholes (Table 1). These sites are shown in figure 2. Tracks were created to access these sites, as shown in Plate 1 indigenous trees are not harmed during bulldozing of the tracks. The tracks were not rehabilitated yet as they are still being used for exploration activities.
.....

Note that bulldozing of access routes (with a front end loader), followed existing overgrown grid lines. Bulldozing did not harm any of the indigenous trees.
Indigenous trees in the area include Colophospermum mopane (Mopane), Boscia albitrunca (Witgat) and Cyphostemma currorii (Kobas).
.....

Diamond drill sites are rehabilitated by filling up the sumps used for water recirculation and raking the area. The borehole is covered with a steel plate for future identification. Plate 2 and 3 show an active Diamond drilling site and a rehabilitated site.
.....

I declare that the information provided in this Environmental Report is, to the best of my knowledge, accurate and correct.



18th July 2019

.....
Holder
Exploration Geologist

.....
Date

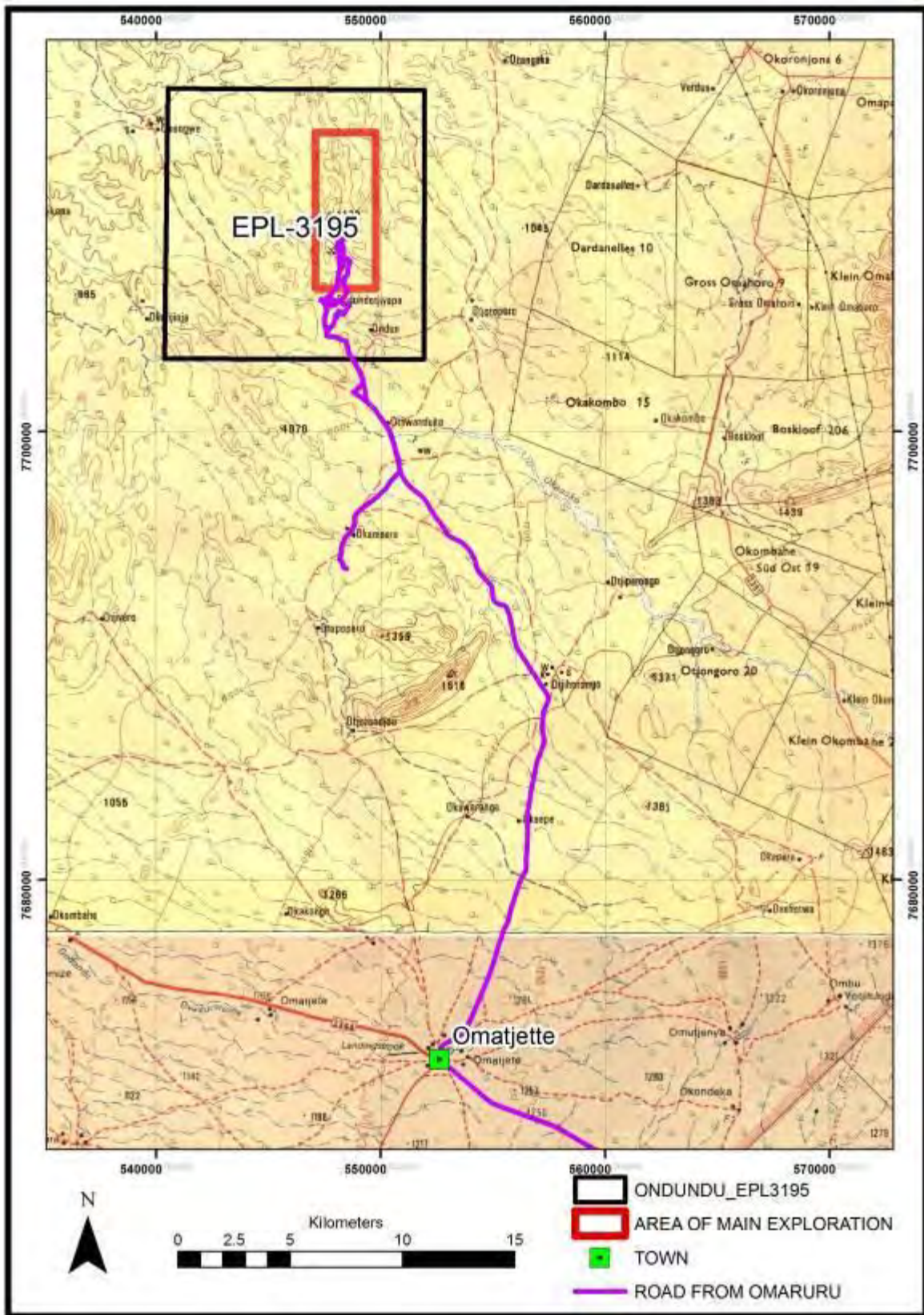


Figure 1: Regional locality plan for EPL 3195 in the Erongo Region

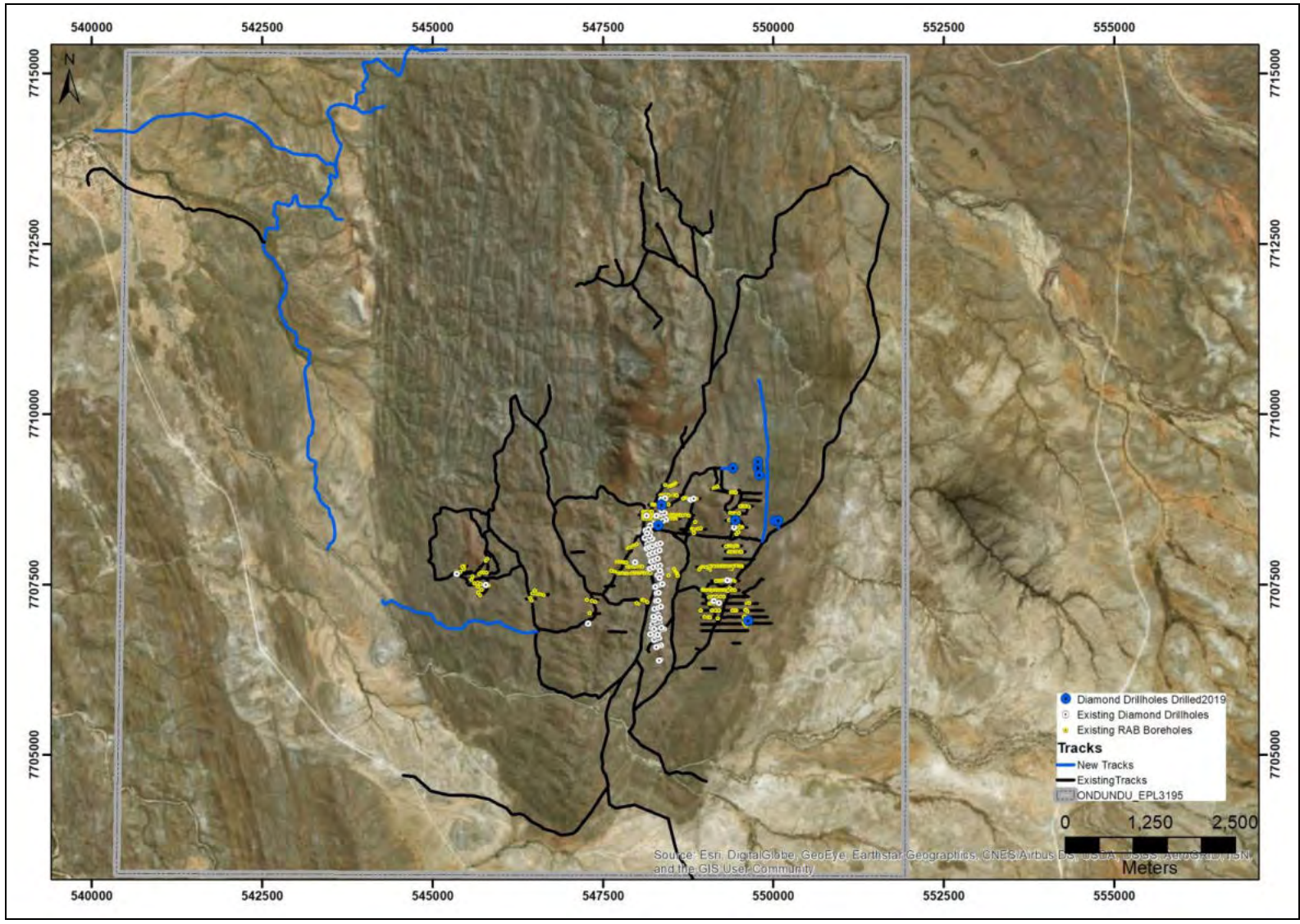


Figure 2. Location of new (blue) and existing (black) tracks, new diamond drillholes (blue) and existing diamond (white) and RAB drillholes (yellow).

Borehole ID	X_UTM33S	Y_UTM33S	Depth	Borehole Type
ON19-195	549773.9	7709199.8	200.69	Diamond Drillhole
ON19-196	549776.2	7709299.6	203.59	Diamond Drillhole
ON19-197	549794.5	7709100.6	200.70	Diamond Drillhole
ON19-198	549409.4	7709200.4	227.68	Diamond Drillhole
ON19-199	549445.5	7708440.7	152.69	Diamond Drillhole
ON19-200	549632.6	7706965.7	155.70	Diamond Drillhole
ON19-201	550021.0	7708434.0	119.68	Diamond Drillhole
ON19-202	550071.0	7708434.0	146.57	Diamond Drillhole
ON19-203	548313.9	7708361.0	251.67	Diamond Drillhole
ON19-204	548360.9	7708663.5	200.70	Diamond Drillhole
ON19-205	548360.9	7708663.5	200.82	Diamond Drillhole

Table 1: List of Diamond Drillholes drilled between January and June 2019.



Plate 1: Indigenous trees are avoided when tracks are made. Tracks have not been rehabilitated yet as exploration activities are ongoing.



Plate 2: An active Diamond Drill site.



Plate 3: Rehabilitated Diamond Drill site. The borehole is covered with a steel plate (insert) and sumps are refilled and the area is raked. Mopane (in the background) and Witgat (in the foreground) trees are not harmed during exploration activities.

ENVIRONMENTAL REPORT (ER)

(Mineral Licence Holders)

EPL 3195

INSTRUCTIONS:

1. An Environmental Report shall be submitted to the Ministry of Environment and Tourism (MET) by the following dates each year: -

January to June and from July to December (biannually)

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A. HOLDER DETAILS AND REPORTING PERIOD :

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Address of Holder: 20 Nachtigal Street, PO Box 80363, Windhoek, Namibia

Telephone: 067 306518 Fax number: 061 416 499 cell: 0812286298
E-mail: tmutilifa@b2gold.com

Name of person compiling report: Thomas Mutilifa

Reference number(s) of Mining Claim area / block / licence: EPL3195

Geographical location of area / block / license: Omaruru District, Erongo Region

This report is for the period of: (tick the relevant box and fill in the year)

- January - June 2020
 July - December 2020

Other (please specify)

B. POLLUTION AND WASTE

Has all domestic refuse (eg. Household waste, bottles, tins, paper, plastic, etc) been removed from the mineral licence area? Yes no

If "yes" above, specify the site where such refuse has been deposited:
Omaruru Municipal waste dump site

How often is refuse removed to the site mentioned above? : every week
every two weeks
every three weeks
once a month
at irregular intervals

If refuse has not been removed, where has it been dumped? n/a

As far as litter is concerned, would you describe your mineral licence area as : Very clean Reasonably clean Filthy

If your mineral licence area is littered with refuse, please indicate how you intend cleaning it up :
.....

Are toilets provided for all staff employed by the holder : yes no

If "yes" above, are they : Flush toilets Chemical Toilets Pit Latrines Other

If chemical toilets are used, how are old chemicals disposed of :

Deposited in evaporation ponds Deposited in a municipal refuse dump
Buried on site Other (specify)

C. VEHICLES AND EARTHMOVING EQUIPMENT

Indicate the types and number of vehicles and earthmoving equipment used on site during the reporting period (tick box in front of the category of vehicles used and then fill in the next boxes to indicate numbers)

<input checked="" type="checkbox"/> Pick-up trucks (“bakkies”), either 2x4 or 4x4	How many in use	6
<input checked="" type="checkbox"/> Lorries / trucks between 5 - 10 ton capacity	How many in use	1
<input type="checkbox"/> Lorries / trucks larger than 10 ton capacity	How many in use	0
<input type="checkbox"/> Bulldozer of any size	How many in use	0
<input type="checkbox"/> Road Grader of any size	How many in use	0
<input checked="" type="checkbox"/> Front-end loader of any size	How many in use	1
<input checked="" type="checkbox"/> Drilling machine of any type	How many in use	1
<input type="checkbox"/> Other (specify) ...Backhoe.....	How many in use	0

D. ROADS AND TRACKS *In addition to ticking the following boxes, please draw roads/tracks made on an accompanying map in blue ink. Roads which have been rehabilitated (ie. restored to their natural state) can be scratched out in red pen.*

Have new roads or tracks been made during the reporting period ? yes no

If “yes” above how long are these (in kilometres) ? 0.75km

If “yes” above are these still in use ? yes no

If “no” above have any of these roads or tracks been rehabilitated ? yes no

If “yes” above, how have you done such rehabilitation ? : Ripping Raking sweeping
 Other (specify)

If road / track rehabilitation has taken place, how many kilometres of roads or tracks have been rehabilitated ? kilometres

E. TRENCHES OR PITS: *If new trenches or pits were made in the site / area during the reporting period, please indicate these by ticking the appropriate boxes AND by means of illustrating them on the same map described above. New pits or trenches made, should be numbered and drawn as a CIRCLE in blue ink, while pits or trenches which were rehabilitated during the reporting period should be scratched out in RED ink.*

Have new trenches or pits been excavated in your area during the reporting period ? yes no

If “yes” above, what are their approximate sizes or dimensions ? (in metres)

Were any holes/trenches rehabilitated during this period of reporting ? yes (show on map) no

F. INFRASTRUCTURAL DEVELOPMENT

Infrastructural Developments means any offices, houses, sheds, cement slabs, or other buildings or foundations for buildings. It also includes storage tanks (for water, fuel or other substances), temporary housing such as mobile homes & caravans, prefab units and tented camps. Please report on new construction or additions to buildings you reported on, in your previous Environmental Report.

Was any NEW infrastructure established during this period ?	yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
If "yes" above, is this infrastructure :	Permanent <input type="checkbox"/>	Temporary <input type="checkbox"/>	A combination <input type="checkbox"/>
Describe infrastructure by ticking boxes :	Offices <input type="checkbox"/>	Housing <input type="checkbox"/>	Sheds <input type="checkbox"/>
	Prefab structure <input type="checkbox"/>	Garages <input type="checkbox"/>	Storage tanks <input type="checkbox"/>
	Cement slabs <input type="checkbox"/>	Foundations <input type="checkbox"/>	Other <input type="checkbox"/>
	If "other", please specify : ...		

G. BOREHOLES, SAMPLE HOLES OR OTHER DRILLING

This category includes holes drilled for water, for taking mineral or other samples, for setting explosives, for testing mineral quality, or any other purpose.

Were any holes drilled during this period ?	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>
If "yes", for which purpose were they drilled ?	Water <input type="checkbox"/>	
	Sampling <input checked="" type="checkbox"/>	max depth 509.82m, 7 holes
	Explosives <input type="checkbox"/>	depth <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Quantity <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Other <input type="checkbox"/>	(specify)	

H. WATER

Your estimated monthly water consumption during this period was: 85,000 cubic metres

Water was obtained from : River Borehole Dam Water Affairs Other

Please estimate the percentage of water used for the following activities during this period:		Were there any accidents which caused a loss of water ? yes <input type="checkbox"/> no <input checked="" type="checkbox"/> If "yes", please give details:
Human consumption	10.0 %	
Toilets	10.0 %	
Prospecting activities	80.0 %	
Washing vehicles & equipment	0.001 %	
Dust control	0%	
Building activities	0 %	
Gardens	0%	
Recreation	0%	
Other (specify)	0%	

I. PROTECTION OF FAUNA AND FLORA

Please answer the following questions by ticking the appropriate boxes :

Question :	Yes	No	Unsure
Were any mammals, birds, reptiles or fish killed or wounded (purposefully or accidentally) in the mining licence site or area ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were any plants (excluding grasses) picked, damaged or removed ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was there any wood collecting in the area ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

J. RELATIONS WITH NEIGHBOURS, OFFICIALS AND/OR THE GENERAL PUBLIC

Were there any conflicts with neighbours, land-owners, Government Officials or the public during this period ? Yes No

If "yes" above, what was the nature of these conflicts ? (tick boxes to provide answers)

People entered the area without permission or prior arrangement	<input type="checkbox"/>
Complaints about reduced access to water or other resources	<input type="checkbox"/>
Complaints about danger posed to livestock or wildlife	<input type="checkbox"/>
Allegations about stock-theft or poaching	<input type="checkbox"/>
Complaints about vehicle or equipment movement on access roads / tracks	<input type="checkbox"/>
Complaints about litter or other types of pollution (eg. Noise, dust, etc.)	<input type="checkbox"/>
Complaints about the activities / actions of Holder staff	<input type="checkbox"/>
Allegations that the Holder was not adhering to contracts / agreements	<input type="checkbox"/>
Allegations that the Holder damaged property or installations	<input type="checkbox"/>
Allegations that gates were left open or unlocked	<input type="checkbox"/>
Other (specify).....	<input type="checkbox"/>

If conflicts arose, indicate how these were resolved ? (tick boxes)

Verbal agreement after discussions.....	<input type="checkbox"/>
Written agreement by special contract.....	<input type="checkbox"/>
Instructions to Holder staff to avoid conflicts.....	<input type="checkbox"/>
Holder rectified its mistakes and undertook to avoid future wrong-doing.	<input type="checkbox"/>
Court action or other third party arbitration.....	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>
The conflicts remain unsolved.....	<input type="checkbox"/>

Any other comments or information :

See next page for more space for "additional comments".....Additional comments continued

.....
Platforms were created to drill boreholes (Diamond) at 7 sites (Table 1). These sites are shown in figure 2.

Diamond drill sites are rehabilitated by filling up the sumps used for water recirculation and raking the area. The borehole is covered with a steel plate for future identification. Plate 1 and 2 show an active Diamond drilling site and a rehabilitated site respectively.

.....
Note that bulldozing of access routes (with a front end loader), followed mostly existing overgrown grid lines. A few new roads/tracks totalling 750m were created to access new areas. The tracks were not rehabilitated yet as they are still being used for exploration activities. Bulldozing did not harm any of the indigenous trees (Plate 3).

Indigenous trees in the area include Colophospermum mopane (Mopane), Boscia albitrunca (Witgat) and Cyphostemma currorii (Kobas).

I declare that the information provided in this Environmental Report is, to the best of my knowledge, accurate and correct.



11th January 2021

.....
Holder
Exploration Geologist

.....
Date

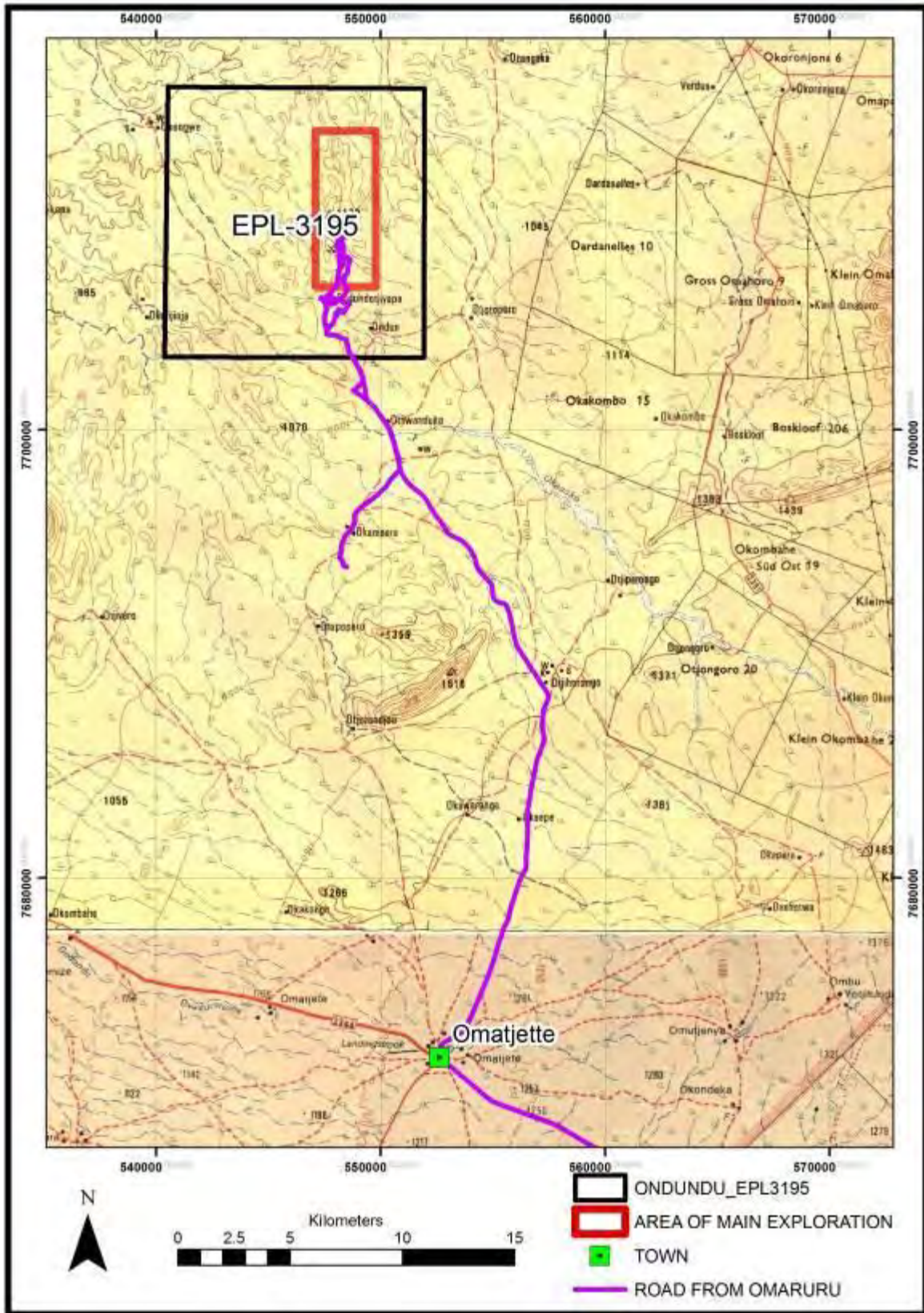


Figure 1: Regional locality plan for EPL 3195 in the Erongo Region

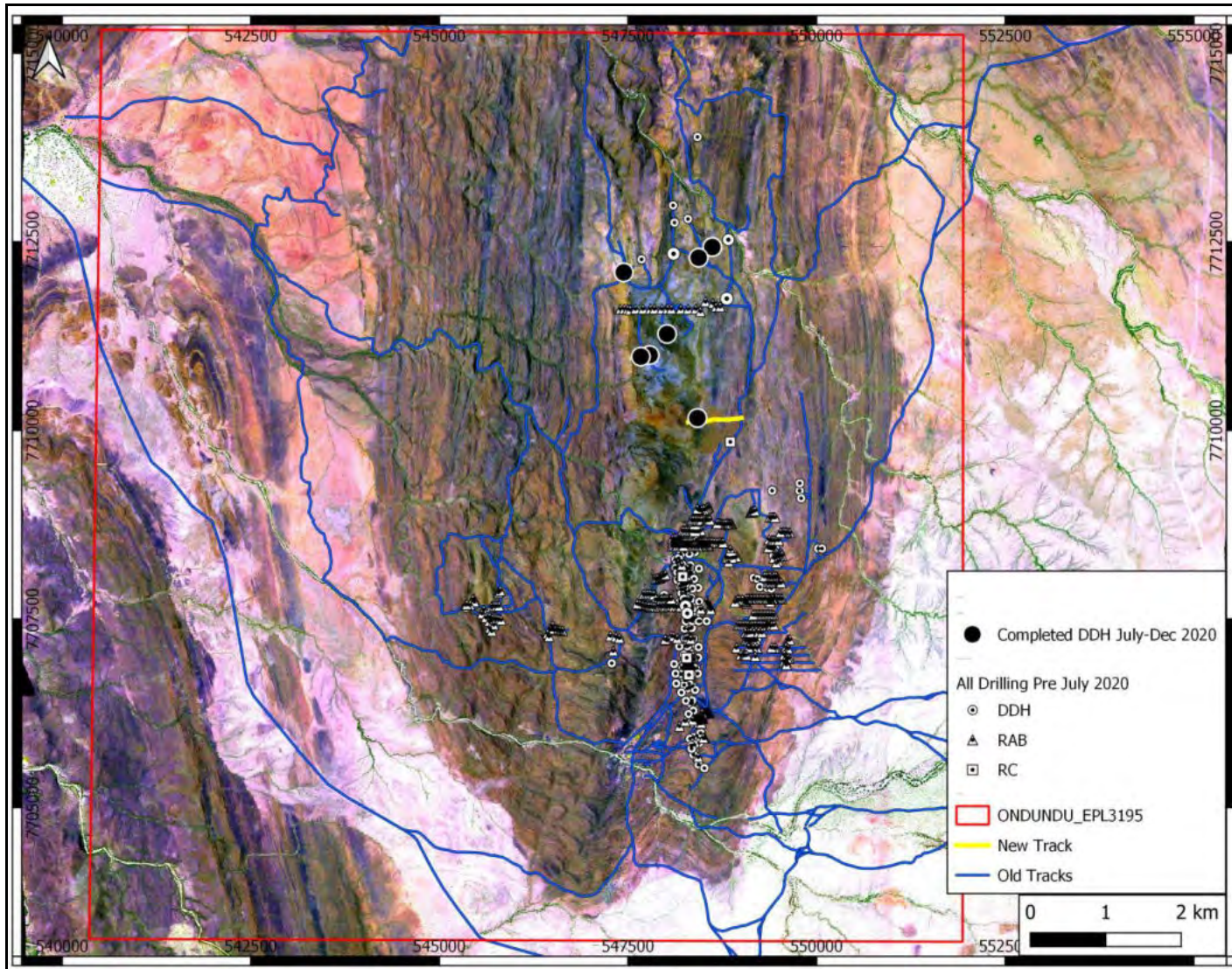


Figure 2. Location of tracks and drillholes.

Table 1: List of Diamond Drillholes drilled between July and December 2020.

HOLE NO	LATITUDE	LONGITUDE	TYPE (PERCUSSION, DIAMOND, RC)	PROGRESS	INCLINATION	DIRECTION	DEPTH (m)
ON20-218	-20.686923	15.466824	DIAMOND	COMPLETE	-60	235	434.67
ON20-219	-20.688206	15.465085	DIAMOND	COMPLETE	-60	55	200.67
ON20-220	-20.697346	15.461093	DIAMOND	COMPLETE	-80	205	509.82
ON20-221	-20.689990	15.455557	DIAMOND	COMPLETE	-65	50	407.07
ON20-222	-20.707409	15.464987	DIAMOND	COMPLETE	-65	235	407.67
ON20-223	-20.699882	15.458881	DIAMOND	COMPLETE	-65	180	246.25
ON20-224	-20.700075	15.457758	DIAMOND	COMPLETE	-70	200	350.77

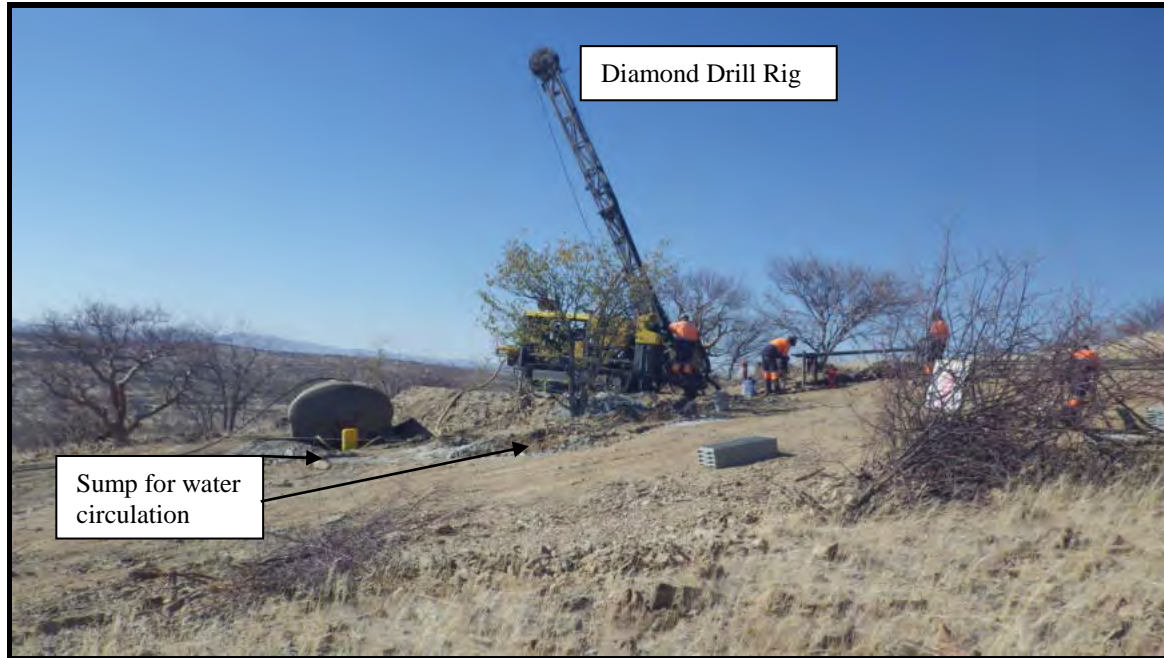


Plate 1: An active Diamond Drill site.

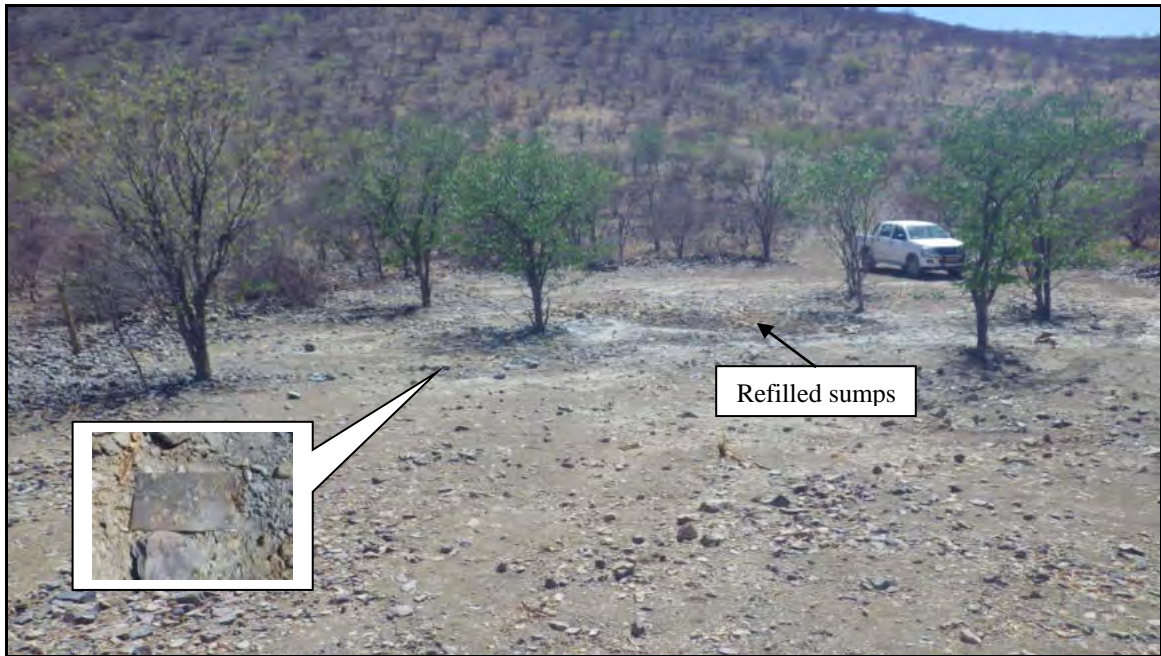


Plate 2: Rehabilitated Diamond Drill site. The borehole is covered with a steel plate (insert) and sumps are refilled and the area is raked. Mopane trees are not harmed during exploration activities.

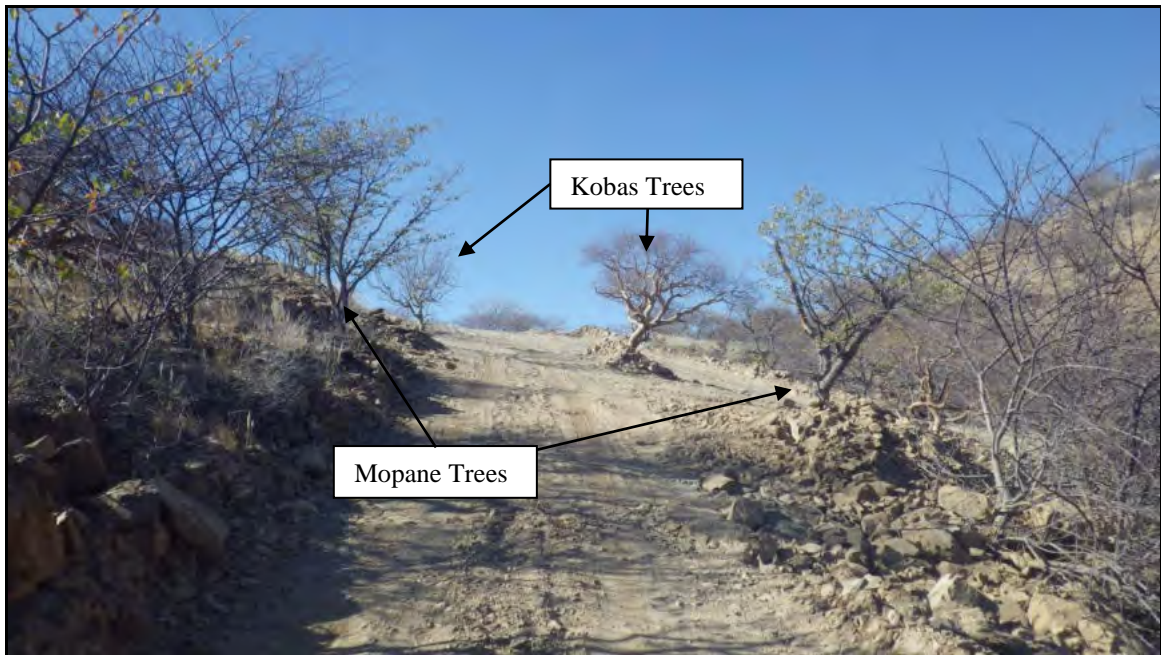


Plate 3: Indigenous trees are avoided when drill sites/tracks are made. Tracks have not been rehabilitated yet as exploration activities are ongoing.

ENVIRONMENTAL REPORT (ER)

(Mineral Licence Holders)

EPL 3195

INSTRUCTIONS:

1. An Environmental Report shall be submitted to the Ministry of Environment and Tourism (MET) by the following dates each year: -

January to June and from July to December (biannually)

2. This form shall be the minimum reporting format. Mineral Licence Holders are expected to attach a map of the area to this report. Mineral Licence Holders are welcome to attach any other information they like, such as copies of new agreements, letters of explanation, aerial photographs, or anything else of interest.
3. The map shall be used to indicate the following:
 - * areas where activities has taken place,
 - * roads or tracks made and/or used,
 - * houses and other infrastructure erected,
 - * excavations or other scars that have been rehabilitated,
 - * conflict areas, etc.
4. It is recommended (but not compulsory) that Holders attach photographs to their report, which visually illustrate the activities described in their report.
5. Failure to submit an Environmental Report shall constitute a breach of the Environmental Contract, which could result in steps taken against the Holder.
6. All information contained in the Environmental Report shall be treated as confidential.
7. The Holder shall ensure that all the information recorded in the Environmental Report is, to their best knowledge, accurate and correct.

Completed Environmental Reports should be sent to:

**The Permanent Secretary
Ministry of Environment and Tourism
Private Bag 13306
Windhoek**

For Attention: Ms. S. Angula / Environmental Assessment Unit

A. HOLDER DETAILS AND REPORTING PERIOD :

Name of Holder: Razorback Gold Mining Company (Pty) LTD

Address of Holder: 20 Nachtigal Street, PO Box 80363, Windhoek, Namibia

Telephone: 067 306518 Fax number: 061 416 499 cell: 0812286298
E-mail: tmutilifa@b2gold.com

Name of person compiling report: Thomas Mutilifa

Reference number(s) of Mining Claim area / block / licence: EPL3195

Geographical location of area / block / license: Omaruru District, Erongo Region

This report is for the period of: (tick the relevant box and fill in the year)

January - June 2019
 July - December 2019

Other (please specify)

B. POLLUTION AND WASTE

Has all domestic refuse (eg. Household waste, bottles, tins, paper, plastic, etc) been removed from the mineral licence area? Yes no

If "yes" above, specify the site where such refuse has been deposited:
Omaruru Municipal waste dump site

How often is refuse removed to the site mentioned above? : every week
every two weeks
every three weeks
once a month
at irregular intervals

If refuse has not been removed, where has it been dumped? n/a

As far as litter is concerned, would you describe your mineral licence area as : Very clean Reasonably clean Filthy

If your mineral licence area is littered with refuse, please indicate how you intend cleaning it up :
.....

Are toilets provided for all staff employed by the holder : yes no

If "yes" above, are they : Flush toilets Chemical Toilets Pit Latrines Other

If chemical toilets are used, how are old chemicals disposed of :
Deposited in evaporation ponds Deposited in a municipal refuse dump
Buried on site Other (specify)

C. VEHICLES AND EARTHMOVING EQUIPMENT

Indicate the types and number of vehicles and earthmoving equipment used on site during the reporting period (tick box in front of the category of vehicles used and then fill in the next boxes to indicate numbers)

<input checked="" type="checkbox"/> Pick-up trucks (“bakkies”), either 2x4 or 4x4	How many in use	6
<input checked="" type="checkbox"/> Lorries / trucks between 5 - 10 ton capacity	How many in use	1
<input type="checkbox"/> Lorries / trucks larger than 10 ton capacity	How many in use	0
<input type="checkbox"/> Bulldozer of any size	How many in use	0
<input type="checkbox"/> Road Grader of any size	How many in use	0
<input checked="" type="checkbox"/> Front-end loader of any size	How many in use	1
<input checked="" type="checkbox"/> Drilling machine of any type	How many in use	1
<input type="checkbox"/> Other (specify) ...Backhoe.....	How many in use	0

D. ROADS AND TRACKS *In addition to ticking the following boxes, please draw roads/tracks made on an accompanying map in blue ink. Roads which have been rehabilitated (ie. restored to their natural state) can be scratched out in red pen.*

Have new roads or tracks been made during the reporting period ? yes no

If “yes” above how long are these (in kilometres) ?

If “yes” above are these still in use ? yes no

If “no” above have any of these roads or tracks been rehabilitated ? yes no

If “yes” above, how have you done such rehabilitation ? : Ripping Raking sweeping
Other (specify)

If road / track rehabilitation has taken place, how many kilometres of roads or tracks have been rehabilitated ? kilometres

E. TRENCHES OR PITS: *If new trenches or pits were made in the site / area during the reporting period, please indicate these by ticking the appropriate boxes AND by means of illustrating them on the same map described above. New pits or trenches made, should be numbered and drawn as a CIRCLE in blue ink, while pits or trenches which were rehabilitated during the reporting period should be scratched out in RED ink.*

Have new trenches or pits been excavated in your area during the reporting period ? yes no

If “yes” above, what are their approximate sizes or dimensions ? (in metres)

Were any holes/trenches rehabilitated during this period of reporting ? yes (show on map) no

F. INFRASTRUCTURAL DEVELOPMENT

Infrastructural Developments means any offices, houses, sheds, cement slabs, or other buildings or foundations for buildings. It also includes storage tanks (for water, fuel or other substances), temporary housing such as mobile homes & caravans, prefab units and tented camps. Please report on new construction or additions to buildings you reported on, in your previous Environmental Report.

Was any NEW infrastructure established during this period ?	yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
If "yes" above, is this infrastructure :	Permanent <input type="checkbox"/>	Temporary <input type="checkbox"/>	A combination <input type="checkbox"/>
Describe infrastructure by ticking boxes :	Offices <input type="checkbox"/>	Housing <input type="checkbox"/>	Sheds <input type="checkbox"/>
	Prefab structure <input type="checkbox"/>	Garages <input type="checkbox"/>	Storage tanks <input type="checkbox"/>
	Cement slabs <input type="checkbox"/>	Foundations <input type="checkbox"/>	Other <input type="checkbox"/>
	If "other", please specify : ...		

G. BOREHOLES, SAMPLE HOLES OR OTHER DRILLING

This category includes holes drilled for water, for taking mineral or other samples, for setting explosives, for testing mineral quality, or any other purpose.

Were any holes drilled during this period ?	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>
If "yes", for which purpose were they drilled ?	Water <input type="checkbox"/>	
	Sampling <input checked="" type="checkbox"/>	max depth 332m, 9 holes
	Explosives <input type="checkbox"/>	depth <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Quantity <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Other <input type="checkbox"/>	(specify)	

H. WATER

Your estimated monthly water consumption during this period was: 50,000 cubic metres

Water was obtained from : River Borehole Dam Water Affairs Other

Please estimate the percentage of water used for the following activities during this period:		Were there any accidents which caused a loss of water ? yes <input type="checkbox"/> no <input checked="" type="checkbox"/> If "yes", please give details:
Human consumption	20.0 %	
Toilets	20.0 %	
Prospecting activities	60.0 %	
Washing vehicles & equipment	0.001 %	
Dust control	0%	
Building activities	0 %	
Gardens	0%	
Recreation	0%	
Other (specify)	0%	

I. PROTECTION OF FAUNA AND FLORA

Please answer the following questions by ticking the appropriate boxes :

Question :	Yes	No	Unsure
Were any mammals, birds, reptiles or fish killed or wounded (purposefully or accidentally) in the mining licence site or area ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were any plants (excluding grasses) picked, damaged or removed ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Was there any wood collecting in the area ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

J. RELATIONS WITH NEIGHBOURS, OFFICIALS AND/OR THE GENERAL PUBLIC

Were there any conflicts with neighbours, land-owners, Government Officials or the public during this period ? Yes No

If "yes" above, what was the nature of these conflicts ? (tick boxes to provide answers)

People entered the area without permission or prior arrangement	<input type="checkbox"/>
Complaints about reduced access to water or other resources	<input type="checkbox"/>
Complaints about danger posed to livestock or wildlife	<input type="checkbox"/>
Allegations about stock-theft or poaching	<input type="checkbox"/>
Complaints about vehicle or equipment movement on access roads / tracks	<input type="checkbox"/>
Complaints about litter or other types of pollution (eg. Noise, dust, etc.)	<input type="checkbox"/>
Complaints about the activities / actions of Holder staff	<input type="checkbox"/>
Allegations that the Holder was not adhering to contracts / agreements	<input type="checkbox"/>
Allegations that the Holder damaged property or installations	<input type="checkbox"/>
Allegations that gates were left open or unlocked	<input type="checkbox"/>
Other (specify).....	<input type="checkbox"/>

If conflicts arose, indicate how these were resolved ? (tick boxes)

Verbal agreement after discussions.....	<input type="checkbox"/>
Written agreement by special contract.....	<input type="checkbox"/>
Instructions to Holder staff to avoid conflicts.....	<input type="checkbox"/>
Holder rectified its mistakes and undertook to avoid future wrong-doing.	<input type="checkbox"/>
Court action or other third party arbitration.....	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>
The conflicts remain unsolved.....	<input type="checkbox"/>

Any other comments or information :

See next page for more space for "additional comments".....Additional comments continued

.....
Nine Diamond drill platforms were created to drill 9 diamond drillholes (Table 1). These sites are shown in figure 2. Existing tracks were used to access these sites, as shown in Plate 1 indigenous trees are not harmed during bulldozing of drill platforms. The tracks were not rehabilitated yet as they are still being used for exploration activities.
.....

Note that bulldozing of access routes (with a front end loader), followed existing overgrown grid lines. Bulldozing did not harm any of the indigenous trees.
Indigenous trees in the area include Colophospermum mopane (Mopane), Boscia albitrunca (Witgat) and Cyphostemma currorii (Kobas).
.....

Diamond drill sites are rehabilitated by filling up the sumps used for water recirculation and raking the area. The borehole is covered with a steel plate for future identification. Plate 2 and 3 show an active Diamond drilling site and a rehabilitated site.
.....

I declare that the information provided in this Environmental Report is, to the best of my knowledge, accurate and correct.



14th January 2020

.....
Holder
Exploration Geologist

.....
Date

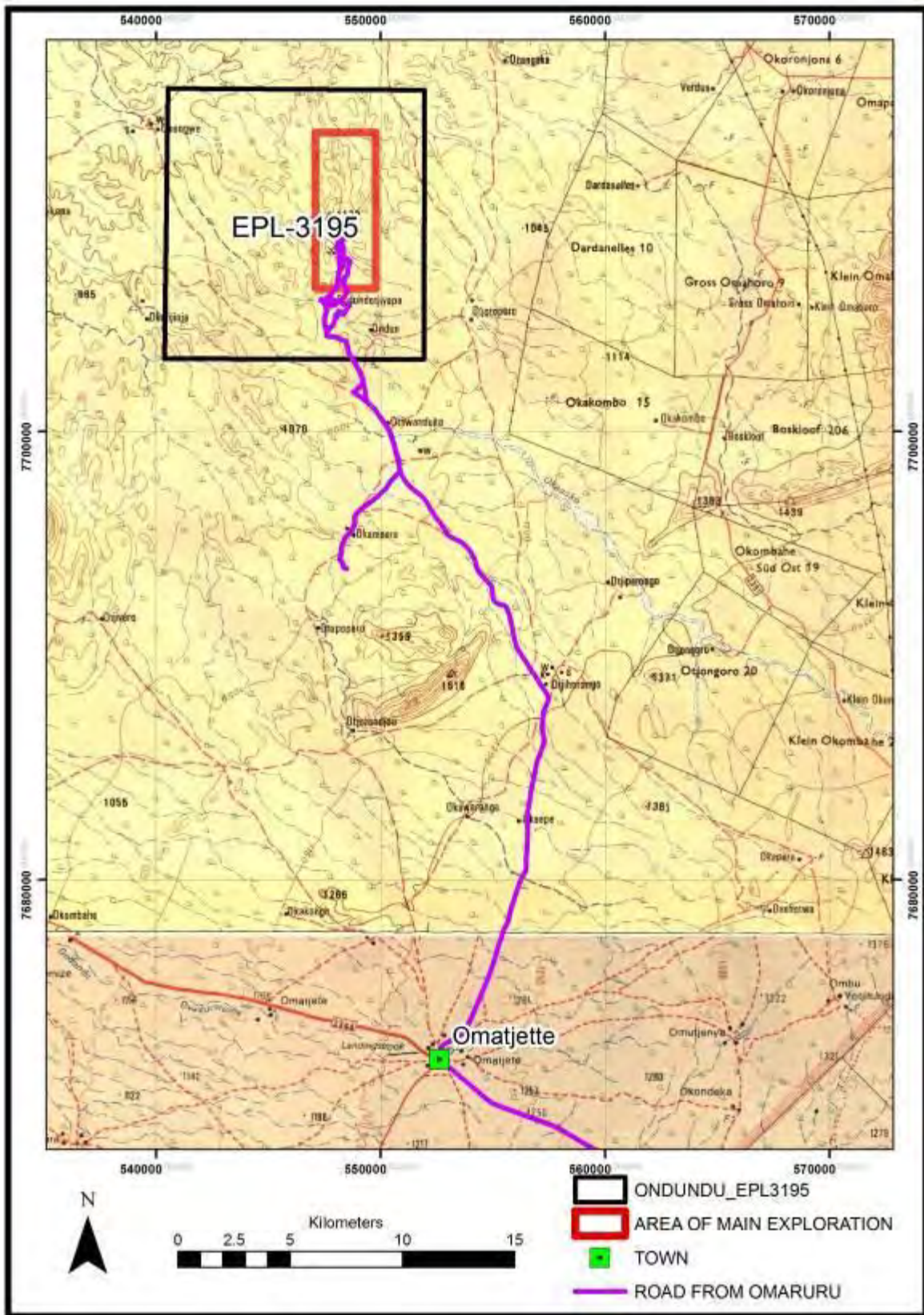


Figure 1: Regional locality plan for EPL 3195 in the Erongo Region

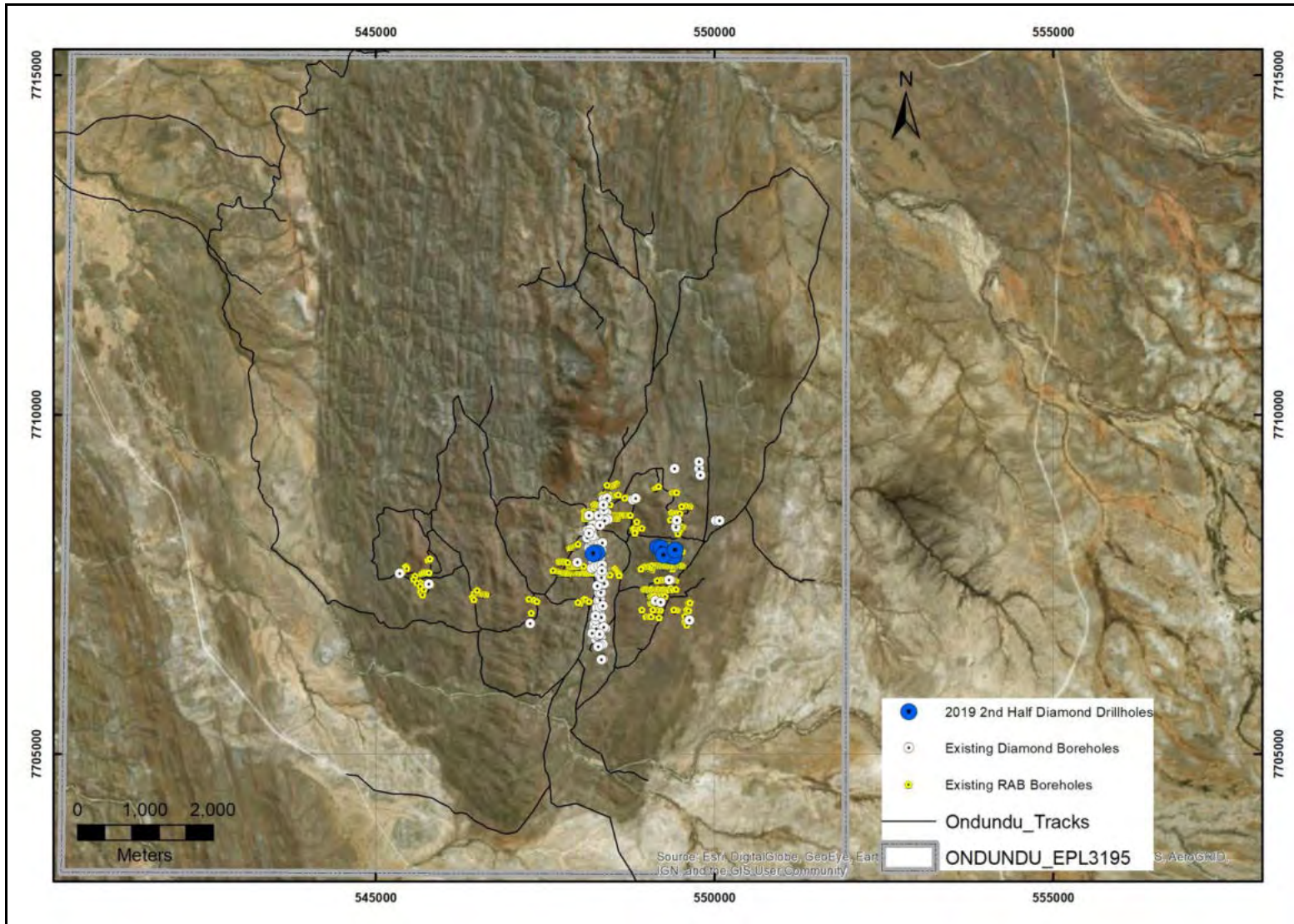


Figure 2. Location of existing tracks (black), new diamond drillholes (blue) and existing diamond (white) and RAB drillholes (yellow).

Borehole ID	X_UTM33S	Y_UTM33S	Longitude	Latitude	Elevation	EOH (m)
ON19-206	548262	7707965	15.4635321	-20.7272868	1008.1	287.74
ON19-207	548213	7707947	15.4630610	-20.7274498	996.6	332.82
ON19-208	549167	7708045	15.4722246	-20.7265376	1017.0	107.80
ON19-209	549217	7708030	15.4727005	-20.7266710	1013.0	186.37
ON19-210	549349	7707913	15.4739744	-20.7277219	1006.0	179.67
ON19-211	549399	7707904	15.4744578	-20.7278091	1006.0	182.67
ON19-212	549248	7707929	15.4730058	-20.7275836	1016.0	242.72
ON19-213	549415	7708003	15.4746086	-20.7269124	1006.0	128.21
ON19-214	549416	7708000	15.4746135	-20.7269368	1006.0	206.57

Table 1: List of Diamond Drillholes drilled between July and December 2019.



Plate 1: Indigenous trees are avoided when drill sites/tracks are made. Tracks have not been rehabilitated yet as exploration activities are ongoing.



Plate 2: An active Diamond Drill site.



Plate 3: Rehabilitated Diamond Drill site. The borehole is covered with a steel plate (insert) and sumps are refilled and the area is raked. Mopane (in the background) and Witgat (in the foreground) trees are not harmed during exploration activities.