



Submitted to: B2Gold Namibia Minerals (Pty) Ltd
Attention: Mr Dixon Bernardu
P O Box 80363,
Olympia
Namibia

REPORT:

EXPLORATION ACTIVITIES ON EPL 6628 – COMPLIANCE REPORT

PROJECT NUMBER: ECC-36-634-REP-02-D

REPORT VERSION: REV 01

DATE: 18 JUNE 2025



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Client Name: Mr Dixon Bernardu
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ENVIRONMENTAL COMPLIANCE CONSULTANCY CONTACT DETAILS:

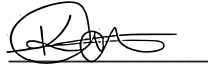
We welcome any enquiries regarding this document and its content. Please contact:



Environmental Compliance Consultancy
PO Box 91193, Klein Windhoek, Namibia
Tel: +264 81 669 7608
Email: info@eccenvironmental.com

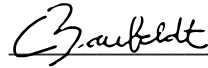
Quality Assurance

Authors:

A handwritten signature in black ink, appearing to be 'K. Ochs', written over a horizontal line.

Kelly Ochs
Environmental Compliance Consultancy

Checked By:

A handwritten signature in black ink, appearing to be 'C. Baufeldt', written over a horizontal line.

Carlene Baufeldt
Environmental Compliance Consultancy

Approved By:

A handwritten signature in black ink, appearing to be 'J. Bezuidenhout', written over a horizontal line.

Jessica Bezuidenhout
Environmental Compliance Consultancy

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EXECUTIVE SUMMARY

Environmental Compliance Consultancy (Pty) Ltd (ECC) has been engaged by B2Gold Namibia Minerals (Pty) Ltd to prepare the application to renew the environmental clearance certificate for exploration activities on EPL 6628 in the Otjozondjupa Region, Namibia. The current environmental clearance certificate was issued on 25 July 2022.

As part of this application, an environmental compliance desktop audit, with the support of bi-annual environmental reports (Appendix C), has been undertaken to determine the status of compliance with the Project EMP during the reporting period.

During the reporting period, activities on EPL 6628 included the sampling of calcretes and soil-calcrete interface on farms Nissen (Farm No. 1114 Unit I), Nissen (Farm No. 357) and Naidaus (Farm No.78). No "line cutting" was carried out, which means no physical clearing of vegetation or straight paths were created through the landscape and therefore no environmental disturbance was created in the area. No issues of non-compliance were identified and relationships with landowners are maintained throughout all activities and visits to EPL 6628.

The proposed and planned exploration activities for the renewal of the environmental clearance certificate include soil, rock chip sampling and any significant values from the surface geochemical sampling will be followed up with RAB/RC drilling.

The intended soil and rock chip sampling will not require any bush clearing. If line clearing is required, it will be minimal only a track will be cleared avoiding protected and big tree species. The rehabilitation process lines are used by the farmers as firebreaks and during rainy season, plants grow back.

It is recommended that the Proponent continues to adhere to all environmental legislation and company standards to ensure that best practical environmental protection continues as the Project progresses.

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ABBREVIATIONS

Abbreviations	Description
ECC	Environmental Compliance Consultancy (Pty) Ltd
EIA	environmental impact assessment
EMP	environmental management plan
EPL	exclusive prospecting licence
GPS	global positioning system
ha	hectares
km	kilometre
km/h	kilometres per hour
Ltd	limited
m	metre
MEFT	Ministry of Environment, Forestry and Tourism
B2Gold	B2Gold Namibia Minerals (Pty) Ltd
Pty	propriety
RAB	rotary air blast

1 INTRODUCTION

1.1 PROJECT BACKGROUND

B2Gold Namibia Minerals (Pty) Ltd (herein referred to as B2Gold or the Proponent) currently holds the rights to exclusive prospecting licence (EPL) 6628 for exploration activities for base, rare and precious metals, and industrial minerals in the Otjozondjupa Region, Namibia. The EPL is approximately 62 172 ha in size (Figure 1). An environmental clearance certificate for the Project was initially granted by the Ministry of Environment, Forestry and Tourism (MEFT) on 28 February 2019, it was renewed and issued on 25 July 2022 (Appendix A).

Environmental Compliance Consultancy (Pty) Ltd (ECC) has been engaged by B2Gold Namibia Minerals (Pty) Ltd to prepare the application to renew the environmental clearance certificate according to the requirements of the Environmental Management Act, No. 7 of 2007. As part of the renewal application, an environmental compliance audit has been undertaken to determine the status of compliance with the Proponents environmental management plan (EMP) (Appendix B).

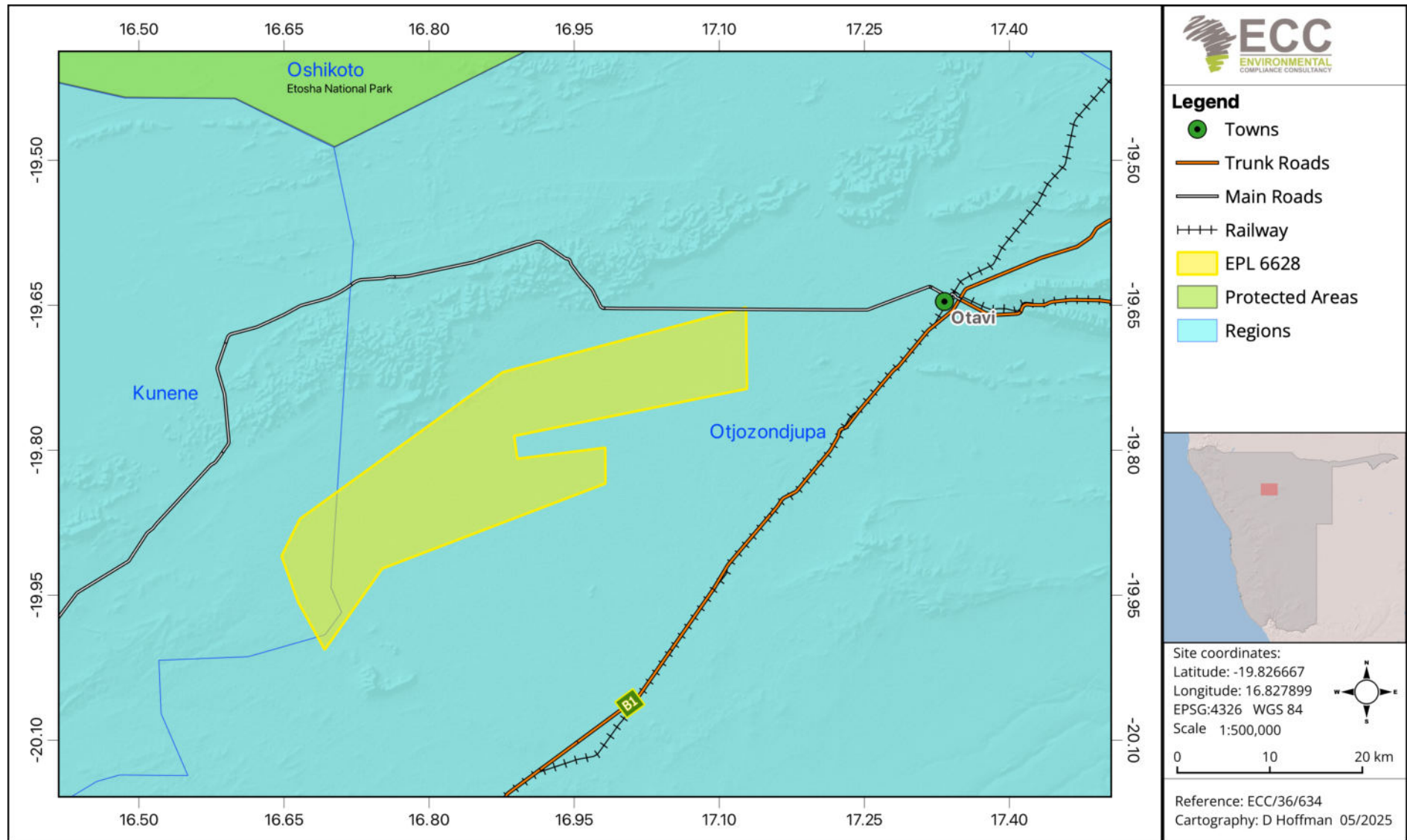


Figure 1 – Locality map of EPL 6628

1.2 PURPOSE OF REPORT

This report documents the findings of a desktop environmental compliance audit that accompanies the renewal application for the environmental clearance certificate for EPL 6628 (Appendix A) from January 2022 to December 2024. This was done with the support of bi-annual environmental reports (Appendix C).

The approved EMP for the existing environmental clearance certificate is audited to monitor the environmental compliance of exploration activities and ensure that all measures stipulated in EMP are met and effectively adhered to, as required by the Department of Environmental Affairs (DEA). In an event where the Project activities are altered, the EMP is required to be revised and amended accordingly.

1.3 THE PROPONENT OF THE PROPOSED PROJECT

The Proponents' details are provided in Table 1.

Table 1 – Proponents details

Company representative:	Contact details:
Mr Dixon Bernardu Senior Exploration Geologist B2Gold Namibia Property (Pty) Ltd	P O Box 80363, Olympia Windhoek dbernardu@b2gold.com +264 (81) 3312251 +264 (67) 306 515/17

1.4 ENVIRONMENTAL ASSESSMENT PRACTITIONER

Environmental Compliance Consultancy (ECC) (Reg. No. 2022/0593) has prepared this renewal report on behalf of the Proponent.

This report has been authored by employees of ECC, who have no material interest in the outcome of this report, nor do any of the ECC team have any interest that could be reasonably regarded as being capable of affecting their independence in the preparation of this report. ECC is independent from the proponent and has no vested or financial interest in the project, except for fair remuneration for professional fees rendered based upon agreed commercial rates. Payment of these fees is in no way contingent on the results of this report or the assessment, or a record of decision issued by Government. No member or employee of ECC is, or is intending to be, a director, officer, or any other direct employee of B2Gold Namibia Minerals (Pty) Ltd. No member or employee of ECC has, or has had, any shareholding in B2Gold Namibia Minerals (Pty) Ltd.

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

Environmental Compliance Consultancy
PO Box 91193, Klein Windhoek, Namibia
Tel: +264 81 669 7608
Email: info@eccenvironmental.com

2 EXPLORATION ACTIVITIES ON EPL 6628

The Proponent intends on carrying out low-impact exploration activities on EPL 6628 for base, rare and precious metals, and industrial minerals in the Otjozondjupa Region, Namibia.

2.1 RENEWAL ACTIVITIES

As part of the exploration program, the following activities will be conducted, which will be updated as the exploration program is refined with results and data:

- Soil and rock chip sampling; and
- RAB/RC drilling.

The intended soil and rock chip sampling will not require any bush clearing. If line clearing is required, it will be minimal only a track will be cleared avoiding protected and big tree species. The rehabilitation process lines are used by the farmers as firebreaks and during rainy season, plants grow back.

3 ENVIRONMENTAL COMPLIANCE AUDIT

3.1 SITE INSPECTION

3.1.1 Bi-annual monitoring

An environmental report is submitted to the Ministry of Environment, Forestry and Tourism biannually, reporting on periods from January to June and July to December. These reports report on compliance with regards to the activities taking place on-site, roads or tracks made or used, accommodation structures and infrastructure erected, any rehabilitation done, and any incidents of conflict reported

3.1.2 Activities for the monitoring period (Jan 2022 – Dec 2024)

No physical exploration work has been conducted on EPL 6628 between January 2022 and June 2024. During July 2024 to December 2024, activities on EPL 6628 included the sampling of calcretes and soil-calcrete interface on farms Nissen (Farm No. 1114 Unit I), Nissen (Farm No. 357) and Naidaus (Farm No.78). No "line cutting" was carried out, which means no physical clearing of vegetation or straight paths were created through the landscape and therefore no environmental disturbance was created in the area.

3.2 ANNUAL COMPLIANCE AUDIT

The approved EMP covers adverse environmental impacts, including any additional potential impacts that may result from the exploration activities on EPL 6628. The EMP provides the technical details for each mitigation, monitoring and institutional measure, including the impact(s) to which it relates.

3.3 COMPLIANCE AUDIT FINDINGS

This section outlines the findings of the environmental audit conducted for the Project. It addresses obligations in terms of the key Namibian legislation that govern the activities on site, the commitments made in the EMP and presents the findings and recommended corrective actions where applicable (Table 2).

The EMP:

- Identifies all EPL 6628 exploration activities that could cause environmental damage (risks and potential impacts) and provides a summary of actions required;
- Identifies institutions responsible for ensuring compliance with the EMP and provides their contact information;
- Provides standard procedures to avoid, minimise and mitigate the identified negative environmental impacts;
- Provides for site and exploration rules and actions required;
- Forms a written record of procedures, responsibilities, requirements and rules for contractor/s, their staff and any other person who must comply with the EMP;

-
- Ensure zero pollution incidents; minimal vegetation clearing, protection of local flora, fauna and water resources; and use water and other natural resources effectively and efficiently;
 - Provides a monitoring and auditing programme to track and record compliance and identify and respond to any potential or actual negative environmental impacts;
 - Provides a monitoring programme to record any mitigation measures that are implemented;
 - Ensure that regular independent third-party environmental audits are carried out on a regular basis; and
 - Once Project has ceased, any impacts shall be rehabilitated.

3.4 ISSUES OF NON-COMPLIANCE

No issues of non-compliance were identified.

Table 2 below provides an overview of the compliance with EMP requirements as depicted in the approved EMP (Appendix B) issued under the environmental clearance certificate (Appendix A) for EPL 6628 exploration activities.

Table 2 - EMP compliance audit of exploration activities on EPL 6628

Activity	Potential impacts	Management/mitigation measures	Compliance	Comments
Use of plant and equipment (on the ground)	– Safety	- Plant and equipment shall be brought onto site as and when required and stored in specific areas; and - Amenities (e.g., portable toilets) shall be provided and set up in a suitable location (if required).	– Compliant	– Pit latrines were provided on site for staff use during the reporting period.
	– Aerial Emissions	– All plant to be shut down or throttled back between periods of use.	– Compliant	– The Proponent adhered to this component of the EMP.
	– Potential loss of oil and fuel causing ground contamination	- Refuelling shall be undertaken in a designated area; - All stationary vehicles and machinery must have drip trays to collect leakages of lubricants and oil; and - In the event of pollution, polluted soils must be collected and dumped at an approved site.	– Compliant	– The Proponent complied with this requirement of the EMP.
	– Water contamination	- Water during drilling should be retained in a lined pond to prevent pollution; and - A ‘good housekeeping’ policy shall be adopted across the construction and maintenance working area.	– Non-applicable	– No active drilling occurred during the reporting period.

Activity	Potential impacts	Management/mitigation measures	Compliance	Comments
	Dust generation	- Use existing access roads and tracks where possible; - Apply dust suppression methods such as water spraying during drilling operations; - Restricted speeds (<30 km/h); - Provide protective masks and eyeglasses to employees in dusty working environments; and - Specific activities that may generate dust shall be avoided during high wind events, e.g., soil preparation activities.	Compliant	The Proponent adhered to this component of the EMP.
	Noise generation	- Noise shall be minimised as much as possible during construction works; - Limit normal operating hours to 07h00 to 18h00 on weekdays and 07h00 until 13h00 on Saturday; - Inform local communities and residents of scheduling and duration of noisy activities through notices or face-to-face communications; - Regular maintenance and servicing of vehicles, plant and equipment; - All plants to be shut down or throttled back between periods of use; and - Provide earmuffs for employees working near excessive noise.	Compliant	There were no recorded conflict or complaints from local farmers and communities.
General exploration activities	- Loss of access or access affected to the farm and farm areas - Farm operations	- Access to farms and all farm areas shall be made available at all times; and - Cattle water holes and feeding areas remain unaffected.	Compliant	The Proponent complied with this requirement of the EMP.

Activity	Potential impacts	Management/mitigation measures	Compliance	Comments
Use of airborne equipment (remote sensing-drone, helicopter)	Noise generation	- Only use remote sensing equipment between 07h00 and 17h00; - No flying is to be conducted (aerial surveys) between dusk and dawn, on Sundays and on public holidays; - When operating a drone, a minimum distance of 50 m must be maintained for uninvolved people and other objects such as vehicles, buildings etc; - Correspond with wildlife authorities to determine the best time to conduct aerial surveys; and - When possible, avoid flying directly over human settlements.	Compliant	The Proponent met the obligations outlined in this section of the EMP.
Vegetation clearance	Alien species	- All Project or earth moving equipment must have an internal weed and seed inspection completed prior to equipment being used on site; - Ensure the potential introduction and spread of alien plants is prevented; and - Ensure the correct removal of alien invasive vegetation from the proposed development area and prevent the establishment and spread of alien invasive plants due to the development activities.	Non-applicable	No vegetation clearing activities have been carried out during the reporting period.
	Dust generation	- Apply speed restrictions; and - Avoid off road driving.	Compliant	The Proponent complied with this requirement of the EMP.
	Reduced soil quality	- Use existing tracks where possible; - Refuelling should occur in designated areas with drip trays; and	Compliant	No new tracks were created, and no fuel spills were recorded

Activity	Potential impacts	Management/mitigation measures	Compliance	Comments
		Avoid natural drainage lines for exploration activities.		during the reporting period while driving on-site.
	Injure or kill animals	- Relocate slow-moving reptiles and amphibians away from the construction area; - No driving off designated access routes (into the bush) / off-road driving; - No snares or catching of animals, no keeping or housing of pets for food; and - No animals or birds may be collected, caught, consumed or removed from site by the Contractor or personnel on site.	Compliant	No faunal deaths or injuries have been reported.
	Removal of vegetation – loss of flora and fauna, protected/important species	- Use existing tracks where possible; - Route new tracks around established and protected trees, and clumps of vegetation; and - Identify rare, endangered, threatened and protected species. Demarcate and avoid cutting down, and clearly highlight to construction workers so that they are avoided - Avoid natural drainage lines.	Non-applicable	No removal of vegetation was required during the reporting period.
Site and ground preparation – creation of access tracks and areas for setting up drill rigs	Creation of dust	- Apply speed restrictions; and - Avoid off road driving.	Non-applicable	The activity - site and ground preparation for drill rigs has not occurred yet, therefore no dust was created as a result of creating
	Heritage remains	Discovery of unearthed archaeological remains to be uncovered, the following measures (chance find procedure) shall be applied: Works to cease, area to be demarcated with appropriate tape by the site;		

Activity	Potential impacts	Management/mitigation measures	Compliance	Comments
		– supervisor, and the Site Manager to be informed; – Site Manager to visit the site and determine whether work can proceed without damage to findings, mark exclusions boundary and inform the Environment and Social Manager of the GPS position if possible; – If work cannot proceed without damage to findings, Site Manager to inform the Environmental Manager who will get in touch with an archaeologist who will provide advice; – Environment Manager (ECC) / Archaeological Specialist to evaluate the significance of the remains and identify appropriate action, for example, record and remove; relocate or leave in situ (depending on the nature and value of the remains); – Inform the police if the remains are human; and – Obtain appropriate clearance or approval from the competent authority, if required, and recover and remove the remains and deliver to the National Museum or National Forensic Laboratory.		access roads and areas for drill rigs. – No heritage remains were found.
Fuel handling and storage	– Loss of containment leads to ground or groundwater contamination.	<u>Safe Delivery and handling:</u> – Training employees and Toolbox Talks; – Good housekeeping across site; – Fuel is handled with care; – Spill kits to be at designated areas across site or available for use during refuelling, fuel delivery or use. Absorption material should be available and at hand. Where saw dust is used it should be cleaned up immediately and not left for long periods as this poses a fire hazard;	– Non-applicable	– No fuel was stored on site during the reporting period. – No refuelling occurred on site.

Activity	Potential impacts	Management/mitigation measures	Compliance	Comments
		- Any major spill is reported to the PM once containment has been achieved; - Plant and equipment to be well maintained and serviced regularly; and - In the field, use of hydrocarbons under 200 liters can be used for mobile refuelling or servicing. Storage: - All tanks to be stored on a non-porous floor and bunded area; - Bund to be capable of storing at least 110% of the volume of the tank; - All containers to be suitable for use and not damaged. - Tanks are locked at all times; and - Spill kits available at storage locations and around site in suitable locations. Refuelling: - Drip tray to be used during refuelling of vehicles and on a permeable flat surface where possible; and - Funnel should be available and used to avoid spillage during decanting.		
Generation of waste	- Nuisances (odors and visual) - Land use - Litter (nuisance and ecological)	- Training and Toolbox Talks; - Good housekeeping across site; - All working areas shall apply good house-keeping; - Implement the waste management hierarchy across site: Avoid, reuse, recycle, then disposal through burning or dump;	– Compliant	– The Proponent ensured that all domestic waste was discarded at the Otjiwarongo Municipal waste

Activity	Potential impacts	Management/mitigation measures	Compliance	Comments
	risk)	- Waste shall be collected and shall be removed on a regular basis to avoid pests and bad odours; - It is unlikely that hazardous material and waste will be produced, however in the event that they do, they shall be managed in a safe and responsible manner so as to prevent contamination of soils, pollution or water and/or harm to people or animals as a result of the use of these materials; and - Hazardous and non-hazardous waste shall be stored separately at all times.		site as needed.
Resource use	Inefficient use of water	Use water effectively and efficiently.	Compliant	The Proponent complied with this requirement of the EMP.
Job creation	Employment creation and skills development opportunities during the exploration phase.	- Maximise local employment and local business opportunities to promote and improve the local economy; - Enhance the use of local labour and local skills as far as reasonably possible; - Where the required skills do not occur locally, and where appropriate and applicable, ensure that relevant local individuals are trained; and - Ensure that goods and services are sourced from the local and regional economy as far as reasonably possible.	Compliant	The Proponent is committed to the continued use of local workforce and service providers for the forthcoming exploration activities.

4 CONCLUSION AND RECOMMENDATIONS

During the desktop compliance audit, no non-compliances were identified. Additionally, all the proposed activities were carried out in compliance with the relevant requirements and conditions of the granted environmental clearance certificate in accordance with the approved EMP. It is recommended that the Proponent continues to adhere to all environmental legislation and company standards to ensure that best practical environmental protection continues as the Project progresses.

APPENDIX A – CURRENT ENVIRONMENTAL CLEARANCE CERTIFICATE

APPENDIX B – ENVIRONMENTAL MANAGEMENT PLAN

APPENDIX C – BI-ANNUAL ENVIRONMENTAL REPORTS



ECC-36-147-REP-06-A

ENVIRONMENTAL MANAGEMENT PLAN

Exploration Activities on EPL 6628 for Base, Rare and Precious
Metals, and Industrial Minerals in the Kunene and Otjozondjupa

Regions

PREPARED FOR



OCTOBER 2018

TITLE AND APPROVAL PAGE

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Environmental Compliance Consultancy Contact Details:

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

Stephan Bezuidenhout

Environmental Consultant & Practitioner
Tel: +264 81 262 7872
Email: stephan@eccenvironmental.com
www.eccenvironmental.com

Jessica Mooney

Environmental Consultant & Practitioner
Tel: +264 81 653 1214
Email: jessica@eccenvironmental.com
www.eccenvironmental.com

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DEFINITIONS AND ABBREVIATIONS

EIA	Environmental Impact Assessment
EMA	Environmental Management Act
EMP	Environmental Management Plan
EPL	Exclusive Prospecting Licence

INTRODUCTION

1.1. PROJECT BACKGROUND

B2Gold Namibia (Pty) Ltd operates the Otjikoto Gold Mine near Otjiwarongo which employs approximately 800 permanent employees. To extend operations in Namibia, B2Gold Namibia propose to undertake exploration activities on Exclusive Prospecting Licence EPL 6628 for base, rare and precious metals, and industrial minerals in the Kunene and Otjozondjupa Regions (referred to as the proposed project from herein).

Exploration methods undertaken may include drilling; aerial or remote sensing; geophysical surveys; and mineral sampling. To allow these methods to be undertaken vegetation clearance for the creation of tracks and the creation of exploration boreholes shall be undertaken.

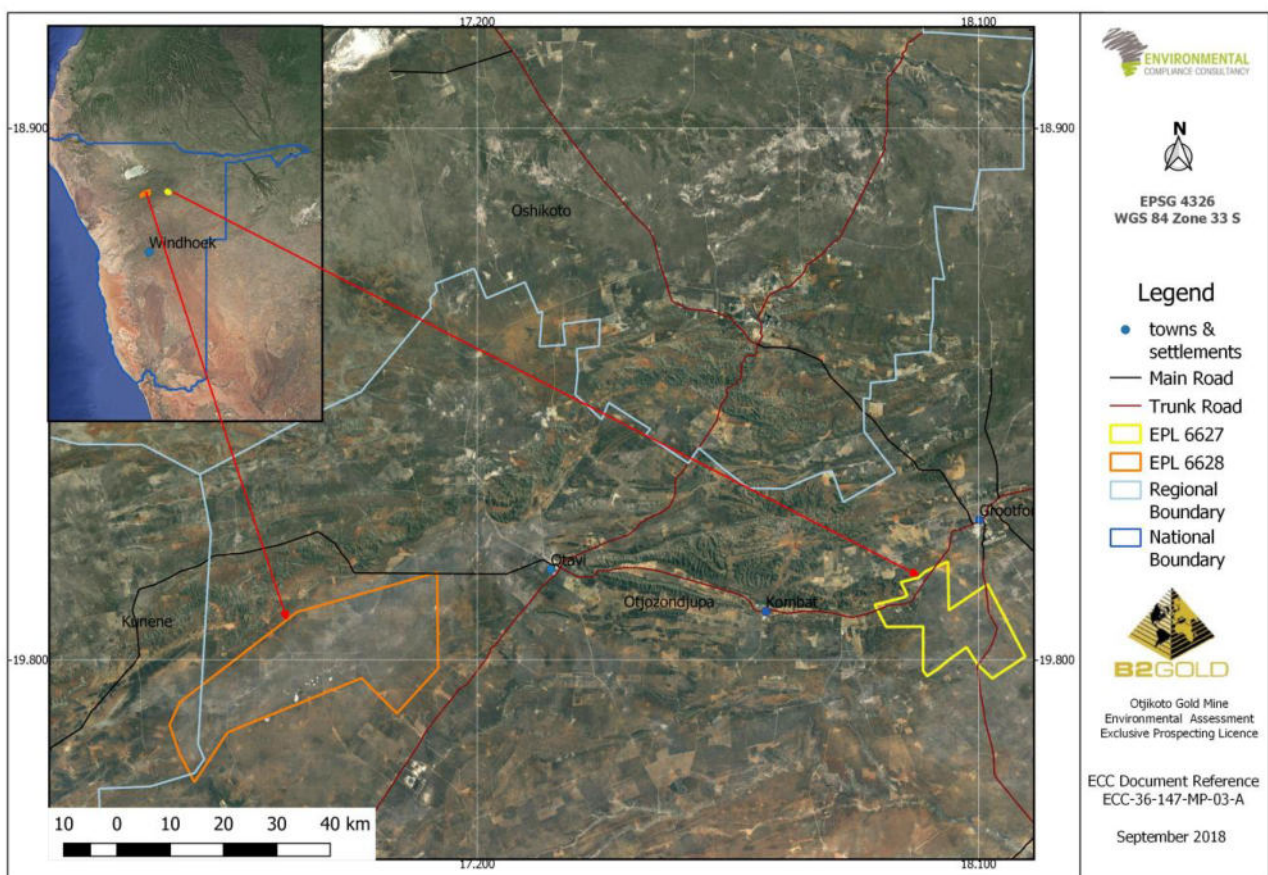


Figure 1: Locality of EPL 6627 and EPL 6628

1.2. ENVIRONMENTAL REGULATORY REQUIREMENTS

The proposed project is considered as a Listed Activity as set out in the Environmental Management Act, 2007 (Act No. 7 of 2007) and the Environmental Impact Assessment Regulation, 2007 (No. 30 of 2011) gazetted under the Environmental Management Act, (EMA), 2007 (Act No. 7 of 2007) (referred to herein as the EIA Regulations). As a Listed Activity an application for an Environmental Clearance Certificate is required. An Environmental Scoping Report and Environmental Management Plan (EMP) are required as part of the Environmental Clearance Certificate application, as well as to support the decision-making process. This report presents the EMP and has been undertaken in accordance with the requirements of the Environmental Management Act, 2007 and associated Regulations.

1.3. PURPOSE AND SCOPE OF THIS REPORT

This EMP provides a logical framework, mitigation measures and management strategies for the exploration activities associated with the proposed project, in this way ensuring that the potential environmental and social impacts are mitigated and minimised as far as practically possible and that statutory and other legal obligations are adhered to and fulfilled. Outlined in the EMP are the protocols, procedures and roles and responsibilities to ensure the management arrangements are effectively and appropriately implemented.

This EMP forms an appendix to the Environmental Scoping Report and has been based on the findings of the assessment; therefore, the Environmental Scoping Report should be referred to for further information on the proposed project, assessment methodology, applicable legislation and assessment findings.

This EMP is a live document and shall be reviewed at predetermined intervals, and/or updated when the scope of works alters, or when further data / information can be added. All personnel working on the project will be legally required to comply with the standards set out in this EMP.

The scope of this EMP includes all activities carried out during the exploration stage in search of base, rare and precious metals and industrial minerals on EPL 6628.

1.4. MANAGEMENT OF THIS EMP

The proponent B2Gold Namibia (Pty) Ltd will hold the Environmental Clearance Certificate for the proposed project and shall be responsible for the implementation and management of this EMP. Prior to the exploration activities commencing, this EMP shall be reviewed, amended as required and approved ready for implementation. The implementation and management of this EMP and thus the monitoring of compliance shall be undertaken through daily duties and activities and monthly inspections.

This EMP shall be circulated to all contractors and shall be made available on the Environmental Compliance Consultancy's (ECC) website.

1.5. LIMITATIONS, UNCERTAINTIES AND ASSUMPTIONS OF THIS EMP

This EMP does not include measures for compliance with statutory occupational health and safety requirements. This will be provided in the safety management plan to be developed by the proponent.

Where there is any conflict between the provisions of this EMP and any contractor's obligations under their respective contracts, including statutory requirements (such as licences, project approval conditions, permits, standards, guidelines and relevant laws), the contract and statutory requirements are to take precedence.

The information contained in this EMP has been based on the project description as provided in the Environmental Scoping Report. Where the design or construction methods alter, this EMP may require updating and potential further assessment undertaken.

1.6. ENVIRONMENTAL CONSULTANCY

ECC, a Namibian consultancy registration number 2013/11401, has prepared this EMP on behalf of the proponent. ECC operates exclusively in the environmental, social, health and safety fields for clients across Southern Africa, in the public and private sector. ECC is independent to the proponent and has no vested or financial interest in the proposed project.

1.7. STRUCTURE OF THIS EMP

The report has the following structure:

- Chapter 1 – Introduction

-
- Chapter 2 – Project Management Personnel
 - Chapter 3 – Communication and Training
 - Chapter 4 – Compliance and Enforcement
 - Chapter 5 – Environmental and Social Management
 - Chapter 6 – Implementation of the EMP

2. PROJECT MANAGEMENT PERSONNEL

2.1. B2GOLD NAMIBIA (PTY) LTD

The proponent shall provide a Project Team to oversee and undertake the preparation and exploration activities, which shall be composed of the proponent's personnel and contractors. A nominated role shall be identified to ensure the management and implementation of this EMP is throughout the duration of the project, which shall be supported by the central environmental team on the B2Gold Namibia site.

2.2. ORGANISATIONAL STRUCTURE, ROLES AND RESPONSIBILITIES

The proponent shall be responsible for:

- Ensuring all members of the Project Team, including contractors, comply with the procedures set out in this EMP;
- Ensuring that all personnel are provided with sufficient training, supervision and instruction to fulfil this requirement; and
- Ensuring that any persons allocated specific environmental responsibilities are notified of their appointment and confirm that their responsibilities are clearly understood.

Contractors shall be responsible for ensuring and demonstrating that all personnel employed by them are compliant with this EMP, and meet the responsibilities listed above.

The key personnel and environmental responsibilities of each role through the project life are presented in **Error! Reference source not found..**

Table 1 – Roles and Responsibilities

ROLE	RESPONSIBILITIES & DUTIES
Proponent	– Responsible for the management and implementation of the EMP; – Ensure environmental policies is communicated to all personnel throughout the proposed project and that employees understand the guidelines of the EMP; – Responsible for providing the resources required to complete the project tasks; – Appoint a Site manager and Exploration Manager; and – Ensure all workers are inducted on safety measures.
Exploration Manager	– Overseeing exploration activities; – Monitoring daily operations and ensure adherence by personnel to the EMP; – Maintain the community issues and concerns register and keep records of complaints; and – Maintain an up to date register of employees who have completed site induction.
Site Manager	– Ensuring that all contract workers, sub-contractors and visitors to the site are conversant with the requirements of this EMP, relevant to their roles on site and adhere to this EMP at all times; – Reporting any non-compliance or accidents to the Exploration Manager; – Receiving, recording and responding to complaints; – Ensure adequate resources are available for the implementation of the EMP; – Report non-compliance to the Exploration Manager; – Ensure safe and environmentally sound operations; and – Responsible for the management, maintenance and revisions of this EMP.

Employees	– Adhere to measures set out in the EMP; – Ensure they have undertaken a site induction; and – Report any operations or conditions which deviate from the EMP as well as any non-compliant issues or accidents to the Site Manager
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2.3. CONTRACTORS

Any contractors hired during the exploration activities and accessory works for the project duration shall be compliant with this EMP, and shall be responsible for the following:

- Undertaking activities in accordance with this EMP as well as relevant policies, procedures, management plans, statutory requirements, and contract requirements;
- Implementing appropriate environmental and safety management measures;
- Reporting of environmental issues, including actual or potential environmental incidents and hazards, to the Site Manager and/or Exploration Manager; and
- Ensuring appropriate corrective or remedial action is taken to address all environmental hazards and incidents reported by employees and subcontractors.

2.4. EMPLOYMENT

The proponent and all contractors shall comply with the requirements of the Republic of Namibia Regulations for Labour, Health and Safety, and any amendments to these regulations. The following shall be complied with:

- In liaison with local government, community, stakeholders and relevant authorities the proponent shall ensure that local people have access to information about job opportunities and are considered first for construction / maintenance contract employment positions;
- The number of job opportunities shall be made known together with the associated skills and qualifications. The maximum length of time the job is likely to last for shall be clearly indicated;
- Foreign workers with no proof of permanent legal residence shall not be hired; and
- Every effort shall be made to recruit from the pool of unemployed workers living in the local area.

3. COMMUNICATION AND TRAINING

3.1. COMMUNICATIONS

During exploration, the Exploration Manager and Site Manager shall communicate site wide environmental issues to the Project Team through the following means (as and when required):

- Site induction;
- Audits and site inspections;
- Toolbox talks, including instruction on incident response procedures; and
- Key project specific environmental issues briefings.

This EMP shall be distributed to the exploration team including any contractors and personnel working on the exploration site to ensure that the environmental requirements are adequately communicated. Key activities and environmentally sensitive operations shall be briefed to workers and contractors.

During the exploration activities, communications between the management team shall include discussing any complaints received and actions to resolve them; any inspections, audits or non-conformance with this EMP; and any objectives or target achievements.

3.2. COMPLAINTS HANDLING AND RECORDING

Any complaints received verbally by any personnel on the project site shall be recorded by the receiver, including the name and contact details of the complainant, date and time of the complaint, and the nature of complaint. The information shall be given to the Exploration Manager who is overall responsible for the management of complaints and will provide a written response to the complainant. The Exploration Manager shall inform the Site Manager of issues, concerns or complaints. It is the duty of the Exploration Manager to maintain a complaint register that details the name of the complainant, date and time of complaint, action taken to resolve the issues and date of complaint handover.

The workforce shall be informed about the complaints register, its location and the person responsible, in order to refer local residents or the general public who wish to lodge a complaint. The complainant shall be informed in writing of the results of the investigation and action to be taken to rectify or address the matter(s). Where no action is taken, the reasons why are to be recorded in the register.

The complaints register shall be kept for the duration of the project and will be available for government or public review upon request.

3.3. TRAINING AND AWARENESS

All personnel working on the project shall be competent to perform tasks that have the potential to cause an environmental impact. Competence is defined in terms of appropriate education, training and experience.

3.3.1. SITE INDUCTION

All personnel involved in the project shall be inducted to the site with specific environment and social awareness training, and health and safety issues. The environment and social awareness training shall ensure that personnel are familiar with the principles of this EMP, the environment and social aspects and impacts associated with their activities, the procedures in place to control these impacts and the consequences of departure from these procedures.

The Exploration Manager shall ensure a register of completed training is maintained.

The Site Induction should include, but not limited to the following:

- A general site-specific induction that outlines:
 - o What is meant by “environment” and “social”;
 - o Why the environment needs to be protected and conserved;
 - o How exploration activities can impact on the environment;
 - o What can be done to mitigate against such impacts;
- The inductee’s role and responsibilities with respect to implementing the EMP;
- The sites environmental rules;
- Details of how to deal with, and who to contact if environmental problems should they occur;
- Basic vegetation clearing principals and species ID sheets;
- The potential consequences of non-compliance with this EMP and relevant statutory requirements; and
- The role of responsible people for the project.

4. REPORTING, COMPLIANCE AND ENFORCEMENT

4.1. ENVIRONMENTAL PERFORMANCE MEASUREMENT

4.1.1. SUMMARY OF ENVIRONMENTAL RISKS AND MITIGATION MEASURES

Chapter 5 provides a Register of Environmental Risks and Issues, which identifies mitigation and monitoring measures, as well as roles responsible. This register will be subject to regular review by the PM and updated when necessary.

The Exploration Manager and Site Manager will use this register to undertake monthly inspections (see next section) to ensure the project is compliant with this EMP.

4.1.2. COMPLIANCE MONITORING

4.1.2.1. DAILY COMPLIANCE MONITORING

A copy of this EMP shall be on site throughout the construction works and shall be available upon request. It is the responsibility of the Exploration Manager and Site Manager to ensure this EMP is complied with through their daily roles. Daily inspections will be undertaken by the Site Manager (or nominated site supervisor). Any environmental problems or risks identified shall be notified to the Exploration Manager and actioned as soon as is reasonably practicable.

4.1.2.2. MONTHLY COMPLIANCE MONITORING

Monthly inspections shall be undertaken by the Site Manager to check that the standards and procedures set out in this EMP are being complied with and pollution control measures are in place and working correctly. Any non-conformance shall be recorded, including the following details: brief description of non-conformance; the reason for the non-conformance; the responsible party; the result (consequence); and the corrective action taken and any necessary follow up measures required.

4.3. NON- COMPLIANCE

4.3.1. NON-COMPLIANCE EVENT

Where it has been identified that works are not compliant with this EMP, the PM shall employ corrective actions so that the works return to being compliant as soon as possible. In instances where the requirements of the EMP are not upheld, a Non-Conformance and Corrective Action Notice shall be produced. The Notice shall be generated during the inspections and the PM shall be responsible for ensuring a corrective action plan is established and implemented to address the identified shortcoming.

A non-compliance event / situation, for example, is considered if:

- There is evidence of contravention of this EMP and associated indicators or objectives;
- The Site Manager and/or Contractor have failed to comply with corrective or other instructions issued by the Environmental Manager or qualified authority; or
- The Site Manager and/or Contractor fail to respond to complaints from the public.

Works shall be stopped in the event of a non-compliance, until corrective action(s) has been completed

4.3.2. DISCIPLINARY ACTION

This EMP is a legally binding document and non-compliance with it shall result in disciplinary action being taken against the perpetrator/s. Such action may take the form of (but is not limited to):

- Fines / penalties;

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- Legal action;
 - Monetary penalties imposed by the proponent on the contractor;
 - Withdrawal of license/s; and
 - Suspension of work.

The disciplinary action shall be determined according to the nature and extend of the transgression / non-compliance, and penalties are to be weighed against the severity of the incident.

4.4. ENVIRONMENTAL PERMITS

Whilst the Water Resources Management Act, 2013 is not enforced, it is best practice to adhere to the stipulations while ensuring compliance to the Water Act of 1956 is also maintained. A licence to abstract and use water may be required if boreholes are to be created, however this is unlikely. If required, the proponent will apply for relevant permits and shall operate in accordance with any conditions in the licence.

Some vegetation shall be cleared on the EPL sites to allow exploration activities to commence. It is unlikely that an area greater than 15ha shall be cleared, therefore a permit under the Forest Act, 2001 is not required.

5. ENVIRONMENTAL AND SOCIAL MANAGEMENT

5.1. OBJECTIVES AND TARGETS

Environmental objectives for the project are as follows:

- Zero pollution incidents;
- Minimal vegetation clearing and earthworks
- Protect local flora and fauna; and
- Use natural resources effectively and efficiently.

5.2. REGISTER OF ENVIRONMENTAL RISKS AND ISSUES

An environmental review of the proposed project has been completed to identify all the commitments and agreements made within the Environmental Scoping Report. From this, a schedule of environmental commitments and risks has been produced (Tables 2 & 3), which details deliverables including measures identified for the prevention of pollution or damage to the environment during exploration.

Table 2 – Environmental Risks and Issues, and Mitigation and Monitoring Measures

ACTIVITY	POTENTIAL IMPACTS	MANAGEMENT/MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
Use of Plant and equipment (on the ground)	– Safety	– Plant and equipment shall be brought onto site as and when required and stored in specific areas – Amenities (e.g. portable toilets) shall be provided and set up in a suitable location (if required)	– Daily observations	– Exploration Manager – Site Manager
	– Aerial emissions	– All plant to be shut down or throttled back between periods of use	– Daily observations	– Exploration Manager – Site Manager
	– Potential loss of oil and fuel causing ground contamination	– Refueling shall be undertaken in a designated area – All stationary vehicles and machinery must have drip trays to collect leakages of lubricants and oil – In the event of pollution, polluted soils must be collected and dumped at an approved site	– Daily observations	– Exploration Manager – Site Manager
	– Water contamination	– Water during drilling should be retained in a lined pond to prevent pollution – A ‘good housekeeping’ policy shall be adopted across the construction and maintenance working area	– Daily observations	– Exploration Manager – Site Manager
	– Dust generation	– Use existing access roads and tracks where possible – Apply dust suppression method such as water spraying during drilling operations – Restricted speeds (<30km/h) – Provide protective masks and eye glasses to employees in dusty working environments – Specific activities that may generate dust shall be avoided during high wind events, e.g. soil preparation activities	– Daily observations	– Exploration Manager – Site Manager
	– Noise generation	– Noise shall be minimised as much as possible during construction works – Limit normal operating hours to 07h00 to 18h00 on weekdays and 07h00 until 13h00 on Saturday; – Inform local communities and residents of scheduling and duration of noisy activities through notices or face-to-face communications – Regular maintenance and servicing of vehicles, plant and equipment	– Daily observations	– Exploration Manager – Site Manager

ACTIVITY	POTENTIAL IMPACTS	MANAGEMENT/MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
		- All plant to be shut down or throttled back between periods of use - Provide ear muffs to employees working in close proximity to excessive noise		
General exploration activities	- Loss of access or access affected to the farm and farm areas - Farm operations	- Access to farms and all farm areas shall be made available at all times - Cattle water holes and feeding areas to remain unaffected	–	–
Use of airborne equipment (remote sensing – drone, helicopter)	Noise generation	- Only use remote sensing equipment between 07h00 and 17h00 - No flying is to be conducted (aerial surveys) between dusk and dawn, on Sundays and on public holidays - When operating a drone, a minimum distance of 50m must be maintained for uninvolved persons and other objects such as vehicles, buildings etc. - Correspond with wildlife authorities to determine the best time to conduct aerial surveys - When possible avoid flying directly over human settlements.	– Daily observations	- Exploration Manager - Site Manager
Vegetation Clearance	Alien species	- All project or earth moving equipment must have an internal weed and seed inspection completed prior to equipment being used on site - Ensure the potential introduction and spread of alien plants is prevented - Ensure the correct removal of alien invasive vegetation from the proposed development area and prevent the establishment and spread of alien invasive plants due to the development activities	- Monitor daily the removal of the alien invasive vegetation. - Check the tyre of vehicles after use on site	- Employees - Exploration Manager
	Dust generation	- Apply speed restrictions - Avoid off road driving	– Daily observations	- Exploration Manager - Site Manager
	Reduced soil quality	- Use existing tracks where possible - Refueling to occur in designated areas with drip trays - Avoid natural drainage lines for exploration activities	– Daily observations	- Exploration Manager - Site Manager
	Injure or kill	Relocate slow moving reptiles and amphibians away from the construction	– Daily observations	– Exploration

ACTIVITY	POTENTIAL IMPACTS	MANAGEMENT/MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
	animals	area – No driving off designated access routes (into the bush) / off-road driving – No snares or catching of animals, no keeping or housing of pets for food – No animals or birds may be collected, caught, consumed or removed from site by the Contractor or personnel on site		Manager – Site Manager
	– Removal of vegetation – loss of flora and fauna, protected/important species	– Use existing tracks where possible – Route new tracks around established and protected trees, and clumps of vegetation – Identify rare, endangered, threatened and protected species. Demarcate and avoid cutting down, and clearly highlight to construction workers so that they are avoided – Avoid natural drainage lines	– Daily visual inspection during construction of new access tracks/widening	– Exploration Manager – Employees – Site Manager
Site and ground Preparation – creation of access tracks and areas for setting up drill rigs	– Creation of dust	– As above	– Daily observations	– Exploration Manager – Site Manager
	– Heritage remains	Discovery of unearthed archaeological remains to be uncovered, the following measures (chance find procedure) shall be applied: – Works to cease, area to be demarcated with appropriate tape by the site supervisor, and the Site Manager to be informed – Site Manager to visit the site and determine whether work can proceed without damage to findings, mark exclusions boundary and inform the Environment and Social Manager with the GPS position if possible – If works cannot proceed without damage to findings, Site Manager to inform the Environmental Manager who will get in touch with an archaeologist who will provide advise – Environment Manager (ECC) / Archaeological Specialist to evaluate the significance of the remains and identify appropriate action, for example, record and remove; relocate or leave in situ (depending on the nature and value of the remains)	– Daily observations	– Exploration Manager – Site Manager

ACTIVITY	POTENTIAL IMPACTS	MANAGEMENT/MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
		– Inform the police if the remains are human – Obtain appropriate clearance or approval from the competent authority, if required, and recover and remove the remains to the National Museum or National Forensic Laboratory as direct		
Fuel handling and storage	– Loss of containment leading to ground or groundwater contamination.	<u>Safe Delivery and handling:</u> – Training employees and Toolbox Talks – Good housekeeping across site – Fuel is handled with care – Spill kits to be at designated areas across site or available for use during refueling, fuel delivery or use. Absorption material should be available and at hand. Where saw dust is used it should be cleaned up immediately and not left for long periods as this poses a fire hazard. – Any major spill is reported to the PM once containment has been achieved. – Plant and equipment to be well maintained and serviced regularly. – In the field, use of hydrocarbons under 200 liters can be used for mobile refueling or servicing. <u>Storage:</u> – All tanks to be stored on a non-porous floor and bunded area. – Bund to be capable of storing at least 110% of the volume of the tank – All containers to be suitable for use and not damaged. – Tanks are locked at all times – Spill kits available at storage locations and around site in suitable locations. <u>Refueling</u> – Drip tray to be used during refueling of vehicles and on a permeable flat surface where possible. – Funnel should be available and used to avoid spillage during decanting	– Daily observations when fuels are delivered and handled – Supervision during refuelling – Weekly observations monitor containment and storage	– Exploration Manager
Generation of waste	– Nuisances (odors and visual) – Land use	– Training and Toolbox Talks – Good housekeeping across site – All working areas shall apply good house-keeping	– Daily observations – Weekly checks	– Exploration Manager – Employees

ACTIVITY	POTENTIAL IMPACTS	MANAGEMENT/MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
	Litter (nuisance and ecological risk)	- Implement the waste management hierarchy across site: Avoid, reuse, recycle, then disposal through burning or dump - Waste shall be collected and shall be removed on a regular basis to avoid pests and bad odours - It is unlikely that hazardous material and wastes will be produced, however in the event that they do, they shall be managed in a safe and responsible manner so as to prevent contamination of soils, pollution of water and/or harm to people or animals as a result of the use of these materials. Hazardous and non-hazardous waste shall be stored separately at all times		
Resource use	Inefficient use of water	Use water effectively and efficiently	Daily observations	- Exploration Manager - Employees
Job creation	Employment creation and skills development opportunities during the exploration phase.	- Maximise local employment and local business opportunities to promote and improve the local economy - Enhance the use of local labour and local skills as far as reasonably possible. Where the required skills do not occur locally, and where appropriate and applicable, ensure that relevant local individuals are trained - Ensure that goods and services are sourced from the local and regional economy as far as reasonably possible	- Daily observations - Weekly checks	- Exploration Manager - Employees

6. IMPLEMENTATION OF THE EMP

This EMP:

- A. Has been prepared pursuant to a contract with the proponent;
- B. Has been prepared on the basis of information provided to ECC up to October 2018;
- C. Is for the sole use of the proponent, for the sole purpose of an EMP;
- D. Must not be used (1) by any person other than the proponent or (2) for a purpose other than an EMP; and
- E. Must not be copied without the prior written permission of ECC.

ECC has prepared the EMP on the basis of information provided by the proponent, specialist reports and the Environmental Scoping Report.