

**REVISED FINAL BASIC
ASSESSMENT REPORT**

**PROSPECTING RIGHT APPLICATION WITHOUT BULK SAMPLING FOR DIAMOND, ON
PORTION 0 OF FARM WILDEBEEST KUIL 69 SITUATED WITHIN THE KIMBERLEY
MAGISTERIAL DISTRICT, NORTHERN CAPE PROVINCE (DMRE REFERENCE NUMBER:
NC/30/5/1/1/2/13279PR**



APRIL 2023



**mineral resources
& energy**

Department:
Mineral Resources and Energy
REPUBLIC OF SOUTH AFRICA

**BASIC ASSESSMENT REPORT
And
ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT**

SUBMITTED FOR ENVIRONMENTAL AUTHORIZATIONS IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 AND THE NATIONAL ENVIRONMENTAL MANAGEMENT WASTE ACT, 2008 IN RESPECT OF LISTED ACTIVITIES THAT HAVE BEEN TRIGGERED BY APPLICATIONS IN TERMS OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (MPRDA) (AS AMENDED).

NAME OF APPLICANT	WONDOKO TRADING PTY LTD
TEL NO	065 936 1512
FAX NO	086 274 7764
POSTAL ADDRESS	506 THE REGENT 21 WEST ROAD SOUTH MORNINGSIDE 2196
FILE REFERENCE NUMBER SAMRAD	NC/30/5/1/1/2/13279PR

IMPORTANT NOTICE

In terms of the Mineral and Petroleum Resources Development Act (Act 28 of 2002 as amended), the Minister must grant a prospecting or mining right if among others the mining “will not result in unacceptable pollution, ecological degradation or damage to the environment”.

Unless an Environmental Authorisation can be granted following the evaluation of an Environmental Impact Assessment and an Environmental Management Programme report in terms of the National Environmental Management Act (Act 107 of 1998) (NEMA), it cannot be concluded that the said activities will not result in unacceptable pollution, ecological degradation, or damage to the environment.

In terms of section 16(3)(b) of the EIA Regulations, 2014, any report submitted as part of an application must be prepared in a format that may be determined by the Competent Authority and in terms of section 17 (1) (c) the competent Authority must check whether the application has taken into account any minimum requirements applicable, or instructions or guidance provided by the competent authority to the submission of applications.

It is therefore an instruction that the prescribed reports required in respect of applications for an environmental authorisation for listed activities triggered by an application for a right or a permit are submitted in the exact format of, and provide all the information required in terms of, this template. Furthermore, please be advised that failure to submit the information required in the format provided in this template will be regarded as a failure to meet the requirements of the Regulation and will lead to the Environmental Authorisation being refused.

It is furthermore an instruction that the Environmental Assessment Practitioner must process and interpret his/her research and analysis and use the findings thereof to compile the information required herein. (Unprocessed supporting information may be attached as Appendices). The EAP must ensure that the information required is placed correctly in the relevant sections of the Report, in the order, and under the provided headings as set out below, and ensure that the report is not cluttered with un-interpreted information and that it unambiguously represents the interpretation of the applicant.

OBJECTIVE OF THE BASIC ASSESSMENT PROCESS

The objective of the basic assessment process is to, through a consultative process—

- (a) Determine the policy and legislative context within which the proposed activity is located and how the activity complies with and responds to the policy and legislative context;
- (b) identify the alternatives considered, including the activity, location, and technology alternatives;
- (c) Describe the need and desirability of the proposed alternatives,
- (d) through the undertaking of an impact and risk assessment process inclusive of cumulative impacts which focused on determining the geographical, physical, biological, social, economic, heritage, and cultural sensitivity of the sites and locations within sites and the risk of impact of the proposed activity and technology alternatives on these aspects to determine:
 - (i) the nature, significance, consequence, extent, duration, and probability of the impacts occurring to; and
 - (ii) the degree to which these impacts
 - (aa) can be reversed;
 - (ba) may cause irreplaceable loss of resources; and
 - (ca) can be managed, avoided, or mitigated;
- (e) through a ranking of the site sensitivities and possible impacts the activity and technology alternatives will impose on the sites and location identified through the life of the activity to—
 - (i) identify and motivate a preferred site, activity, and technology alternative;
 - (ii) identify suitable measures to manage, avoid or mitigate identified impacts; and
 - (iii) Identify residual risks that need to be managed and monitored.

TABLE OF CONTENTS

1. INTRODUCTION 4

 1.1 Location of the overall activity 4

 1.2 Locality map 5

 1.3 Details of the EAP 5

 1.4 Expertise of the EAP 5

2. DESCRIPTION OF THE SCOPE OF THE PROPOSED OVERALL ACTIVITY 6

 2.1 Listed and specified activities 8

 2.2 Description of the activities to be undertaken 8

3. POLICY AND LEGISLATIVE CONTEXT 12

4. NEED AND DESIRABILITY OF THE PROPOSED ACTIVITIES 13

5. MOTIVATION FOR THE OVERALL PREFERRED SITE, ACTIVITIES, AND TECHNOLOGY ALTERNATIVE. 13

6. FULL DESCRIPTION OF THE PROCESS FOLLOWED TO REACH THE PROPOSED PREFERRED ALTERNATIVES WITHIN THE SITE 14

 6.1 Details of the development footprint alternatives considered 15

 6.2 The property on which or location where it is proposed to undertake the activity 15

 6.3 The type of activity to be undertaken 15

 6.4 The option of not implementing the activity 16

7. DETAILS OF THE PUBLIC PARTICIPATION PROCESS FOLLOWED 16

 7.1 Public Participation Methodology 16

 7.2 Identification of I&APs 17

 7.3 List of Authorities Identified and Notified 17

 7.4 List of Key Stakeholders Identified and Notified 17

 7.5 Notification of I&APs 17

 7.6 Description of the Information Provided to the Community, Landowners, and I&APs 18

 7.7 Summary of Issues Raised by I&APs 19

8. ENVIRONMENTAL ATTRIBUTES AND ASSOCIATED ALTERNATIVES 20

 8.1 Baseline Environment 20

 8.1.1 Cadastral 20

 8.1.2 Social and Economic 20

 8.1.3 Geology 22

 8.1.4 Agricultural capability 23

 8.1.5 Biodiversity 24

 8.1.6 Land Use 25

 8.1.7 Noise 26

 8.1.8 Air Quality 26

 8.1.9 Topography 26

 8.1.10 Climate 26

 8.1.11 Hydrology 27

 8.1.12 Vegetation 28

 8.1.13 Archaeological 29

9. METHODOLOGY OF IMPACT ASSESSMENT 32

10. Impacts and risks identified 33

11.	Summary of specialist reports	41
12.	Environmental impact statement	41
12.1	Summary of the key findings of the environmental impact assessment.....	42
12.2	Final Site Map	42
12.3	Summary of the positive and negative implications and risks of the proposed activity and identified alternatives;	43
13.	Proposed impact management objectives and the impact management outcomes for inclusion in the EMPR;	43
14.	Aspects for inclusion as conditions of Authorization	44
15.	Description of any assumptions, uncertainties, and gaps in knowledge.	44
16.	Reasoned opinion as to whether the proposed activity should or should not be authorised	45
17.	Conditions that must be included in the authorisation.....	45
18.	Period for which the Environmental Authorisation is required.....	45
19.	Undertaking.....	45
20.	Financial Provision	45
20.1	Explain how the aforesaid amount was derived	46
20.2	Confirm that this amount can be provided for from operating expenditure.	48
21.	Specific Information required by the competent Authority.....	48
1.	INTRODUCTION	49
1.1	Details of the EAP	49
1.2	Description of the Aspects of the Activity	49
2.1	Holistic principle	49
2.2	Best practicable environmental option	49
2.3	Sustainable development.....	49
2.4	Preventative principles	49
2.5	The precautionary principles	50
2.6	Duty of care and cradle to grave principle.....	50
2.7	Polluter pays principle	50
3.	FAILURE TO COMPLY WITH ENVIRONMENTAL CONSIDERATIONS	51
4.	Description of Impact management objectives including management statements	52

LIST OF TABLES

Table 1: Geographic Coordinates of the prospecting area	4
Table 2: Anticipated animal species	25

LIST OF FIGURES

Figure 1: Locality Map	5
Figure 2: Application Area	8
Figure 3: Typical example of a temporary site office for prospecting activities.....	11
Figure 4: Proposed site layout plan	15
Figure 5: Cadastral Map	20
Figure 6: Wards Map	21
Figure 7: Gender, Population group statistics (https://wazimap.co.za/profiles/ward-30901001-sol-plaatjie-ward-1-30901001/)	22
Figure 8: Employment statistics.....	22
Figure 9: Geological map	23

Figure 10: Agricultural sensitivity map 24
 Figure 11: Biodiversity Map 25
 Figure 12: Topographic profile 26
 Figure 13: The daily average high (red line) and low (blue line) temperature, with 25th to 75th and 10th to 90th percentile bands. The thin dotted lines are the corresponding average perceived temperatures 27
 Figure 14: Hydrological map 28
 Figure 15: Vegetation Map 29
 Figure 16: Topographic Map indicating identified areas flagged as possible heritage/ paleontological and/or heritage sites within earmarked area 30
 Figure 17: Cumulative sensitivity map 43
 Figure 18: Final Layout Map 52

APPENDICES

- Appendix A-EAP CV and qualifications
- Appendix B-Maps and illustrations
- Appendix C-Public Participation
- Appendix D-Site photographs
- Appendix E-Prospecting Right Programme
- Appendix F-Ownership Information
- Appendix G-Specialist Assessments
- Appendix H-DFFE Screening Tool Report
- Appendix I-Other

ACRONYMS AND DESCRIPTIONS

ACRONYMS	DESCRIPTION
AIPs	Alien Invasive Plants
CBA	Critical Biodiversity Area
DBAR	Draft Basic Assessment Report
DWS	Department of Water and Sanitation
ECO	Environmental Control Officer
EIA	Environmental Impact Assessment
EMPr	Environmental Management Programme
ESA	Ecological Support Area
FBAR	Final Basic Assessment Report
I&APs	Interested and Affected Parties
IDP	Integrated Development Plan
NEMA	National Environmental Management Act
NFEPA	National Freshwater Ecosystem Priority Areas
NWA	National Water Act
PHRAG	The Provincial Heritage Resources Authority Gauteng
SAHRA	South African Heritage Resources Association
WULA	Water Use License Application
BAR	Basic Assessment Report

PART A: SCOPE OF ASSESSMENT AND BASIC ASSESSMENT REPORT

1. INTRODUCTION

The Applicant, Wondokoz (Pty) Ltd, has appointed Thevha Sustainable Services (Pty) Ltd to apply for prospecting right for Diamond, on Portion 0 of Farm WILDEBEEEST KUIL 69 situated within the Kimberley Magisterial District, Northern Cape Province. The proposed prospecting site is in Ward 1, 32 and 30 of the Sol Plaatje Local Municipality under the jurisdiction of the Frances Baard District Municipality (**Figure 1**).

The geographic coordinates of the original prospecting area can be noted on **Table 1** below.

Table 1: Geographic Coordinates of the prospecting area

Boundary Points

A 24.6245118 -28.6305549
B 24.6694794 -28.6116079
C 24.7164512 -28.6881723
D 24.7140797 -28.6927388
E 24.7200414 -28.6957078
F 24.6555576 -28.7230828
G 24.6356528 -28.6875703

The proposed activity includes prospecting without bulk sampling for diamond.

1.1 Location of the overall activity

FARM NAME:	WILDEBEEESTKUIL 69
APPLICATION AREA (HA)	The application area is approximately 6 623 ha in extent.
MAGISTERIAL DISTRICT:	Kimberley
DISTANCE AND DIRECTION FROM NEAREST TOWN	25 Kilometres NORTH WEST of the town of KIMBERLEY.
21 DIGIT SURVEYOR GENERAL CODE FOR EACH FARM PORTION	C0370000000006900000

1.2 Locality map

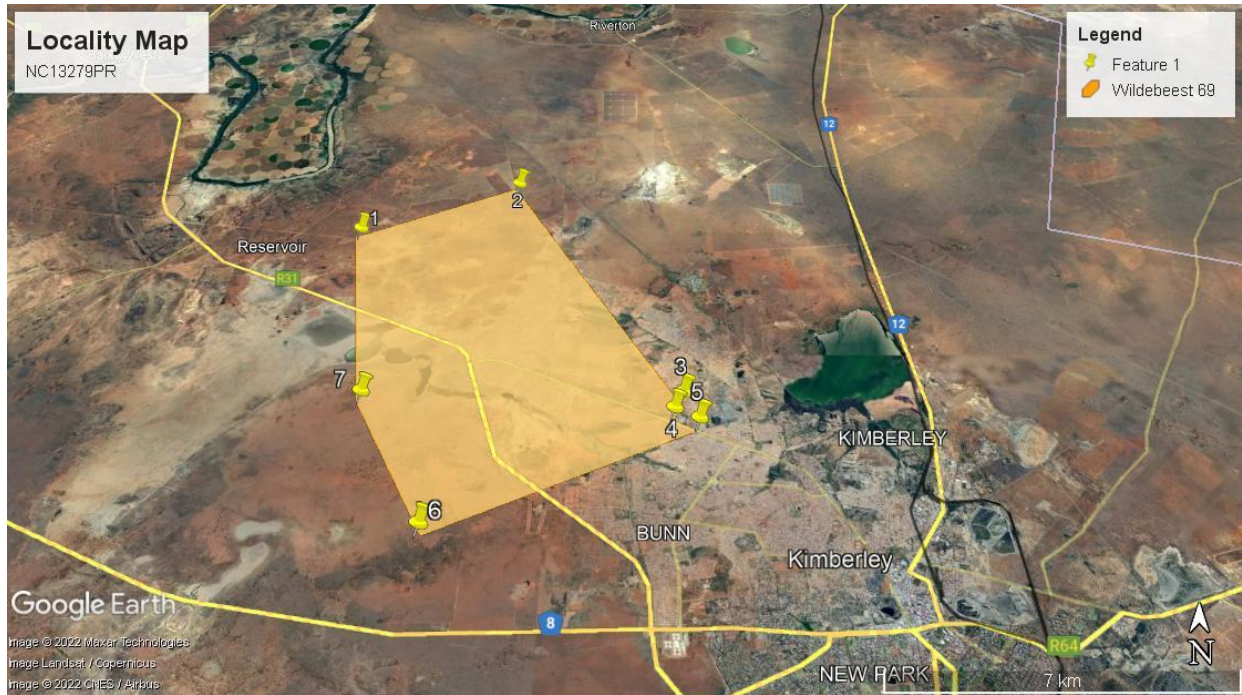


Figure 1: Locality Map

1.3 Details of the EAP

Name of The Practitioner:	 Thevha Sustainable Services Thevha Sustainable Services (Pty) Ltd Vanessa Nkosi
Cell No:	076 376 2045
E-mail address:	info@thevhastainableservices.co.za

1.4 Expertise of the EAP

The qualifications of the EAP (with evidence).

BSc (Geology)	University of Pretoria
Post-graduate Diploma in Integrated Water Management	University of Free-State

The CV of the EAP has been included on **Appendix A**.

2. DESCRIPTION OF THE SCOPE OF THE PROPOSED OVERALL ACTIVITY

Provide a plan drawn to a scale acceptable to the competent authority but not less than 1: 10 000 that shows the location, and area (hectares) of all the aforesaid main and listed activities, and infrastructure to be placed on site.

The Applicant, Wondokoz (Pty) Ltd, has appointed Thevha Sustainable Services (Pty) Ltd to apply for prospecting right for Diamond, on Portion 0 of Farm WILDEBEEEST KUIL 69 situated within the Kimberley Magisterial District, Northern Cape Province. The proposed prospecting site is in Ward 1, 32 and 30 of the Sol Plaatje Local Municipality under the jurisdiction of the Frances Baard District Municipality.

The proposed prospecting activities have been separated into five (5) non-invasive phases as detailed below.

- **Phase 1:**

Investigate historical mining and academic data:

Historical mining data and academic literature references will be acquired and reviewed. The data includes historical borehole information and geological maps. Additional relevant information will also be acquired. This newly acquired information will be scrutinised, inventorised and verified (QA/QC procedure). Relevant academic studies pertaining to the area will also be examined for details on controls of mineralisation.

Desktop study:

A desktop study will be performed with focus on the controls of mineralisation in the project area. The aim of the study is to better understand the mineralisation features in order to define detailed exploration target areas more accurately.

Inventorise, capture and QA/QC and database creation:

The above data will be compiled into a geological database in GIS digital map format to perform target generation exercises as well as geological modelling.

Preliminary site visit:

A field visit will be undertaken to familiarise the applicant with surface features (such as historical mines, infrastructure, outcrops, water bodies and wetlands) in the project area and to meet the surface landowners. During this visit farm boundaries within the project area and farming activities will be verified. An effort will be made to identify any factors that may impact the exploration program. The information collected will be utilised to derive and prioritise preliminary exploration targets.

Exploration target definition:

Information collected will be analysed and interpreted. Preliminary exploration targets will be delineated and ranked according to appropriate perspective parameters including geological stratigraphy and structures, historic mining production, etc. This will permit an exploration strategy to be devised for the project area.

- **Phase 2:**

Remote sensing:

Drone and satellite remote sensing data will be acquired and processed to allow the identification of potential ore-bearing horizons and historical mine activities.

Field mapping and stream sediment sampling:

Detailed mapping of the rock types, structural geological features and mineralised reef horizons will be undertaken. If possible, this will include investigations of historic mines. Small grab samples of stream-sediment will be collected to determine the metal sources.

Stream sediment sampling and target generation:

Please refer to the invasive exploration section.

Geological and mineralisation model:

A geological map will be compiled highlighting the relevant controls and distribution of mineralisation in the project area. A three-dimensional geological model will be generated using this information. The preliminary mineralisation model will be generated using the geological information.

- **Phase 3:**

The principal activity will be NQ-sized cored diamond drilling. The core size provides sufficient sample mass for core lengths from approximately 0.30m upwards. It provides sufficient sample mass for analytical work on normal sample widths. The drill rigs have a capacity to drill between 1200 and 1800 meters per month in 12-hour shift and 5 days a week.

- The boreholes are expected to vary between 50 meters and 100 meters although 75 meters per hole is planned on average.
- The layout of the borehole will depend on the results obtained from desktop studies, research, and field mapping. Initially 30 RC drilled holes are planned on the farms and thereafter 25 Diamond drilled holes. These holes will be on a 3 km grid, then on a 1.5km grid, and finally to a 250-100m grid. At this stage, **at least eight (8) drill holes have been targeted.**
- The layout of boreholes will take due regard to regulations and restrictions relating to environmental, social, and cultural/heritage factors, and the like.
- The successive drilling on smaller grids will target specific areas which will depend on positive results obtained from the previous phase of wider spaced drilling. The specific areas cannot be predicted at this early stage.
- This drilling programme strategy would be able to successively allow us to take the deposit from an inferred resource to proven reserve.
- **Phase 4:**

Detailed geological field mapping:

Mapping of the geological characteristics of various areas not covered in the previous phase will be undertaken to produce a detailed geological map.

Refined geological and mineralisation models:

With the more detailed geological mapping information, it is anticipated that specific mineralisation targets within the different areas will be defined.

Trenching and sampling:

Depending on indications from mapping and/or early stage drilling results, trenching and/or pitting will be carried out in specific areas. It is envisaged that trenches, if required, will be dug with an excavator up to 3 meters below ground level to intersect the sub-outcrop. The length of the trenches could vary between 10-100m. Pits, if required, will have a much smaller footprint (approximately 2m by 2m), and will likely be dug manually or with an excavator. These activities will take due cognisance of safety, social, and environmental factors, and will be rehabilitated to the original state of the land.

- **Phase 5:**

Final geological model and resource estimate:

Utilising all the detailed geological and grade information, a final geological model and associated resource estimate of the deposit(s) will be generated.

Bulk sampling:

This is envisaged at a much later stage of prospecting and the type and size (box-cut, etc.) will largely depend on the results of the prospecting at that point. The necessary permissions will be sought from the DMRE before any bulk sample is taken.

The Prospecting Work Programme (PWP) has been attached as **Appendix E** of this report.

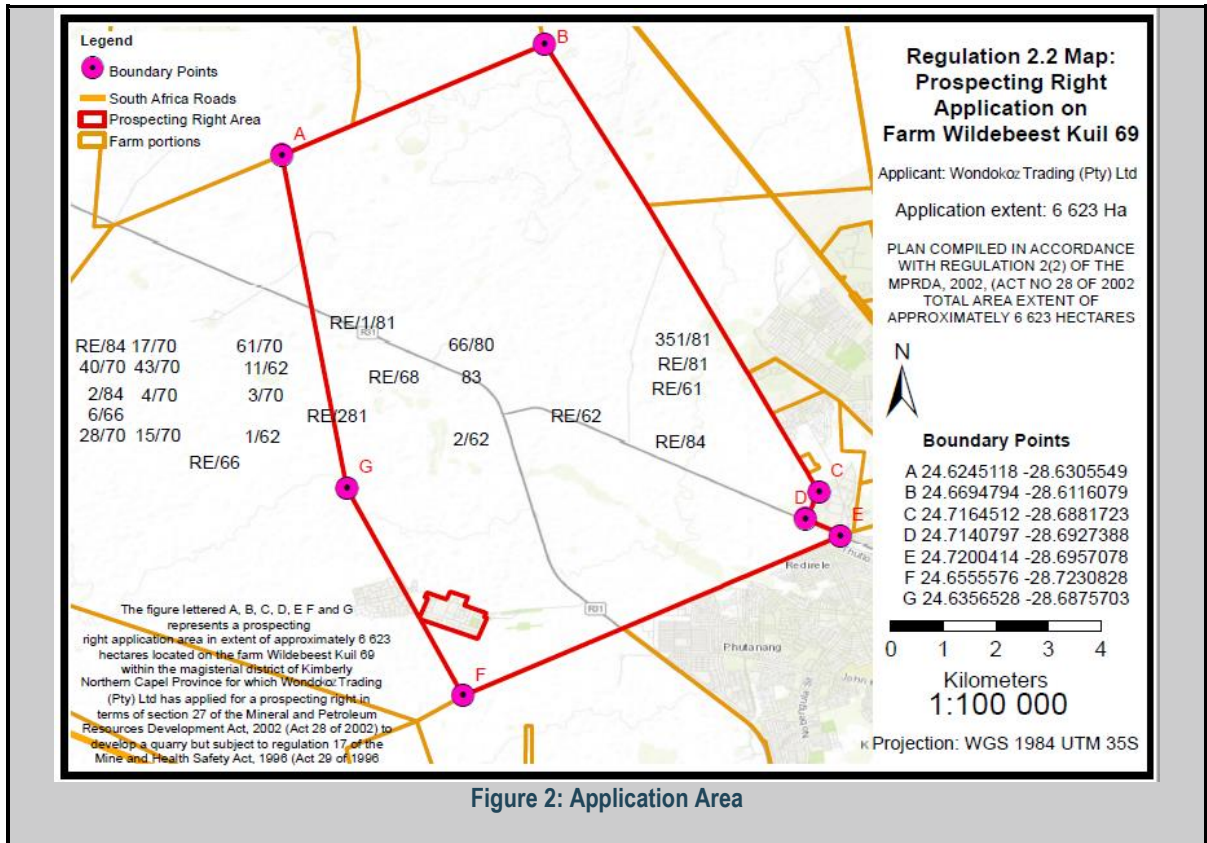


Figure 2: Application Area

2.1 Listed and specified activities

NAME OF ACTIVITY	AERIAL EXTENT OF THE ACTIVITY	APPLICABLE LISTING NOTICE	WASTE MANAGEMENT AUTHORISATION
Average Prospecting Right Reduced Area	6 623 ha	Government Notice, No. R. 327, April 2017 (LN1)	X
Drilling	10 Holes 2200 meters	Government Notice, No. R. 327, April 2017 (LN1)	X
Site camp	80 m ²	Government Notice, No. R. 327, April 2017 (LN1)	X
Ablution facilities	10 m ²	Government Notice, No. R. 327, April 2017 (LN1)	X
Sample storage	40 m ²	Government Notice, No. R. 327, April 2017 (LN1)	X
Equipment storage	50 m ²	Government Notice, No. R. 327, April 2017 (LN1)	X
Temporal Site offices	40 m ²	Government Notice, No. R. 327, April 2017 (LN1)	X
Trenches	90 m ²	Government Notice, No. R. 327, April 2017 (LN1)	X
TOTAL APPROXIMATE AREA	6 623 ha		

2.2 Description of the activities to be undertaken

(Describe Methodology or technology to be employed, including the type of commodity to be prospected/ mined and for a linear activity, a description of the route of the activity).

The proposed prospecting activities have been separated into five (5) non-invasive phases as detailed below;

- **Phase 1:**

Investigate historical mining and academic data:

Historical mining data and academic literature references will be acquired and reviewed. The data includes historical borehole information and geological maps. Additional relevant information will also be acquired. This newly acquired information will be scrutinised, inventorised and verified (QA/QC procedure). Relevant academic studies pertaining to the area will also be examined for details on controls of mineralisation.

Desktop study:

A desktop study will be performed with focus on the controls of mineralisation in the project area. The aim of the study is to better understand the mineralisation features in order to define detailed exploration target areas more accurately.

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Exploration target definition:

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- **Phase 2:**

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Geological and mineralisation model:

A geological map will be compiled highlighting the relevant controls and distribution of mineralisation in the project area. A three-dimensional geological model will be generated using this information. The preliminary mineralisation model will be generated using the geological information.

- **Phase 3:**

The principal activity will be NQ-sized cored diamond drilling. The core size provides sufficient sample mass for core lengths from approximately 0.30m upwards. It provides sufficient sample mass for analytical work on normal sample widths. The drill rigs have a capacity to drill between 1200 and 1800 meters per month in 12-hour shift and 5 days a week.

- The boreholes are expected to vary between 50 meters and 100 meters although 75meters per hole is planned on average.
- The layout of the borehole will depend on the results obtained from desktop studies, research, and field mapping. Initially 30 RC drilled holes are planned on the farms and thereafter 25 Diamond drilled holes. These holes will be on a 3 km grid, then on a 1.5km grid, and finally to a 250-100m grid. At this stage, **at least eight (8) drill holes have been targeted.**
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- This drilling programme strategy would be able to successively allow us to take the deposit from an inferred resource to proven reserve.

- **Phase 4:**

Detailed geological field mapping:

Mapping of the geological characteristics of various areas not covered in the previous phase will be undertaken to produce a detailed geological map.

Refined geological and mineralisation models:

With the more detailed geological mapping information, it is anticipated that specific mineralisation targets within the different areas will be defined.

Trenching and sampling:

Depending on indications from mapping and/or early stage drilling results, trenching and/or pitting will be carried out in specific areas. It is envisaged that trenches, if required, will be dug with an excavator up to 3 meters below ground level to intersect the sub-outcrop. The length of the trenches could vary between 10-100m. Pits, if required, will have a much smaller footprint (approximately 2m by 2m), and will likely be dug manually or with an excavator. These activities will take due cognisance of safety, social, and environmental factors, and will be rehabilitated to the original state of the land.

- **Phase 5:**

Final geological model and resource estimate:

Utilising all the detailed geological and grade information, a final geological model and associated resource estimate of the deposit(s) will be generated.

Bulk sampling:

This is envisaged at a much later stage of prospecting and the type and size (box-cut, etc.) will largely depend on the results of the prospecting at that point. The necessary permissions will be sought from the DMRE before any bulk sample is taken.

It must be noted that the site layout has been drafted based on the desktop studies indicated the environmental sensitivities. No ground truthing was conducted to verify the location of the drill holes due so site access restriction.

SERVICES DESCRIPTION**1. Water Supply**

Process water supply for the operation will sourced from water service providers and will be carted onto the site in a tanker. A 2000-liter water cart will be adequate for the size of this operation. The water will be used for dust suppression of access roads. Dust suppression will be conducted as and when necessary. No water will be abstracted in terms of section 21(a) of National Water Act, 1998 (Act no. 36 of 1998).

2. Potable Water Supply

Potable water required for the proposed prospecting operation is approximately 40 litres per day (ℓ/day). The water will be used for drinking purposes and will be sourced from local water vendors within the town of Morgenzon and supplied in cooled water dispensers.

3. Ablution Facility

Ablution facility at the drill site will involve chemical mobile toilets. Approximately 2 chemical mobile toilets will be required on site. All raw sewage from these toilets will be disposed of into the nearest wastewater treatment works within the Nongoma Local Municipality. The service provider will be required to provide proof of disposal of sewer.

SITE INFRASTRUCTURE**Temporary Office Area/ Camp Site**

A temporary office area will be established on site and will include the following:

- Vehicles and equipment area (drill and pipe truck)
- Ablution facility (chemical mobile toilet)
- Mobile office (mobile container)

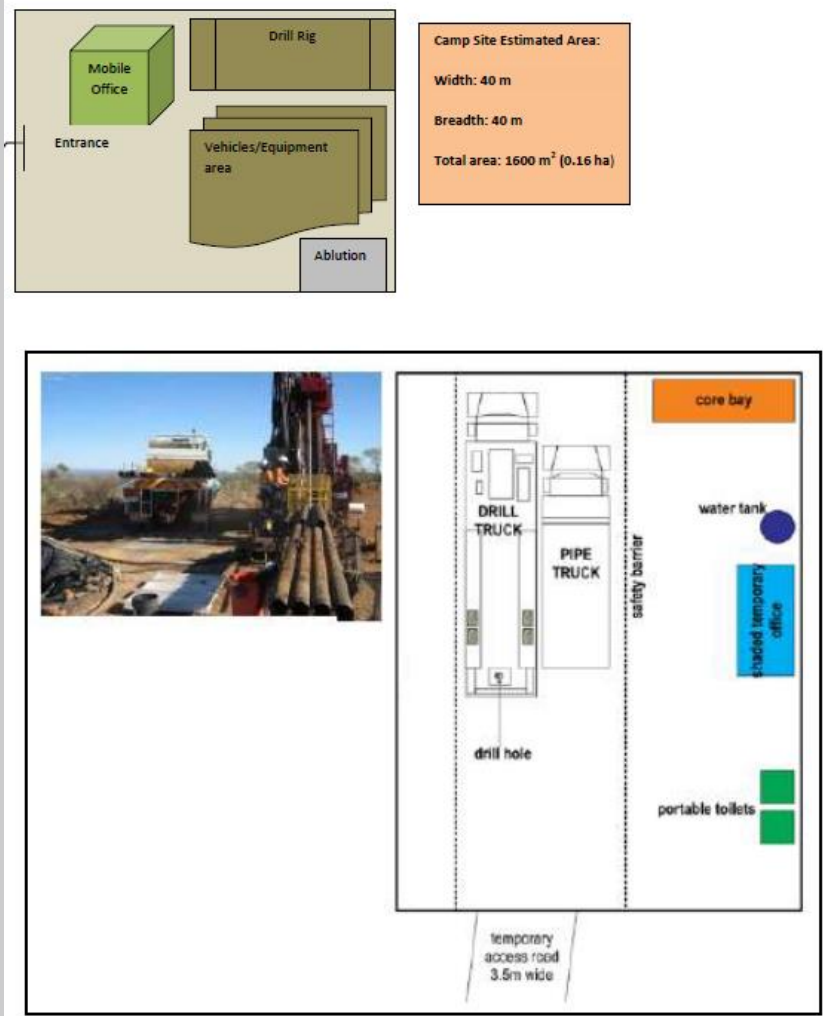


Figure 3: Typical example of a temporary site office for prospecting activities

Accommodation

No accommodation for workers will be provided on site. Accommodation will be sourced within the local area. All workers will be transported on site daily. It is anticipated that most of the workers will be sourced from the local area.

Blasting

No blasting will take place on site. Planned invasive activities are limited to core drilling, trenching and site camping.

3. POLICY AND LEGISLATIVE CONTEXT

APPLICABLE LEGISLATION AND GUIDELINES USED TO COMPILE THE REPORT	REFERENCE WHERE APPLIED	HOW DOES THIS DEVELOPMENT COMPLY WITH AND RESPOND TO THE LEGISLATION AND POLICY CONTEXT?
Constitution of the Republic of South Africa (Bill of Rights), 1996	Chapter 2 section 24	The prospecting activities shall be conducted in such a manner that significant environmental impacts are avoided, where significant impacts cannot all together be avoided, be minimised, and mitigated in order to protect the environmental right of South Africans.
Minerals and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002) (MPRDA)	Section 16, 17, and 39 of MPRDA This entire report is prepared as part of the Prospecting Right Application under the MPRDA	In terms of the Mineral and Petroleum Resources Development Act a Prospecting Right Application has been applied for.
National Environmental Management Act, 1998 (Act 107 of 1998)	Listed Activity 20 of Regulation R327 (December 2014) as amended in April 2017. This entire report is prepared as part of the Application for Environmental Authorizations under the NEMA.	In terms of the National Environmental Management Act an Application for Environmental Authorization subject to a Basic Assessment Process has been applied for.
National Water Act, 1998 (Act 36 of 1998) (NWA)	Not applicable Due to the nature of the proposed prospecting activities no Section 21 water uses will be triggered, therefore there is no requirement to apply for Water Use authorisation in terms of the NWA.	In terms of the National Water Act, no Water Use License has been applied for. It is anticipated that prior to the commencement of the prospecting activities, the applicant will formally engage the Department of Water and Sanitation accordingly.
National Environmental Management: Air Quality Act, 2004 (Act No. 39 of 2004): National Dust Control Regulations (GN 827)	Not applicable	Appropriate dust extractions/ suppression equipment will be a condition imposed on the drill contractor for their drill rigs.
National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) (NEMWA) as amended	Waste management on site	The generation of potential waste will be minimised through ensuring employees of the drilling contractor are subjected to the appropriate environmental awareness campaign before commencement of drilling. All waste generated during the drilling activities will be disposed of in a responsible legal manner. Proof of legal disposal will be maintained on site.
National Heritage Resources Act, 1999 (Act 25 of 1999)	No Burial grounds were identified in close proximity to the prospecting right area as far as the site access allowed.	Not applicable

4. NEED AND DESIRABILITY OF THE PROPOSED ACTIVITIES.

(Motivate the need and desirability of the proposed development including the need and desirability of the activity in the context of the preferred location).

The mining industry is of great importance to the South African economy. The Sol Plaatje Local Municipality IDP (2022) has identified high poverty as one of the weaknesses that the municipality faces which subsequently affects revenue collection. It is anticipated that the proposed prospecting activities will to some extent alleviate the poverty rate through the provision of temporary job opportunities during the drilling phase.

The definition of prospecting in terms of the MPRDA states: "intentionally searching for any minerals by means of any method which disturbs the surface or sub-surface of the earth, including any portion of the earth that is under the sea or under other water..." Prospecting is the physical search for minerals, fossils, precious metals or mineral specimens, which allows a company to survey or investigate an area of land for the purpose of identifying an actual or probable mineral deposit, before investments are made into the mining activities.

In terms of the EIA Regulations the need and desirability of any development must be considered by the relevant competent authority when reviewing an application. The need and desirability must be included in the reports to be submitted during the environmental authorisation application processes.

With the rise in unemployment rate in youth within the country, on the February 2022, State of the Nation Address (SONA), President Cyril Ramaphosa encouraged the private to assist with the job provision. Therefore, the contribution of the mining sector within the municipal and even national economic industry has motivated the applicant to promote local development through the introduction of additional mines within the municipality.

Assessment of the geological information available has determined that the area in question may have diamond as a mineral resource. In order to ascertain the above and determine the nature, location, and extent of the diamond ore reserves within the proposed prospecting area, it will be necessary that prospecting be undertaken. The prospecting will also determine if there are any features that may have an impact on the economic extraction of the diamond ore.

The information that will be obtained from the prospecting to be done will be necessary to determine, should diamond ore be found, how and where the diamond ore will be extracted and how much economically viable diamond ore reserves are available within the proposed prospecting area.

Should prospecting prove successful and a resource quantified, it would indicate a potential viable economic activity in the form of mining that is likely to contribute greatly to the socio-economic status quo in the form of increased income, employment and other benefits that would cascade through the local, regional, and national levels.

5. MOTIVATION FOR THE OVERALL PREFERRED SITE, ACTIVITIES, AND TECHNOLOGY ALTERNATIVE.

The identification of alternatives is a key aspect of the success of the Basic Assessment process. All reasonable and feasible alternatives must be identified and screened to determine the most suitable alternatives to consider in this application. There are, however, some constraints that have to be taken into account when identifying alternatives for a project depending on the scope. Such constraints include financial, social and environment related constraints. Alternatives can typically be identified according to:

- Activity Alternatives
- Location Alternatives
- Design or Layout Alternatives
- Technology Alternatives
- Operational Alternatives
- No-Action Alternative (No-Go)

For any alternative to be considered feasible, such an alternative must meet the need and purposes of the development proposal without presenting significantly high associated impacts. Alternatives are typically distinguished into discrete or incremental alternatives. Discrete alternatives are overall development options, which are typically identified during the pre-feasibility, feasibility and/or Basic Assessment process. Incremental alternatives typically arise during the Basic Assessment process and are usually suggested as a means of addressing/mitigating identified impacts (drilling and trenching in low sensitivity areas). These alternatives are closely linked to the identification of mitigation measures are therefore not specifically identified as distinct alternatives.

For the purpose of this project the need and justification for alternatives was specifically guided by the relatively low sensitivity of the receiving socio-economic and biophysical environment.

Motivation for the overall preferred site, activities, and technology alternative

The motivation towards the selection of the preferred was based on the geological information, residential areas, agricultural activities as well the environmental sensitivity of the original prospecting right area.

6. FULL DESCRIPTION OF THE PROCESS FOLLOWED TO REACH THE PROPOSED PREFERRED ALTERNATIVES WITHIN THE SITE

6.1 Details of the development footprint alternatives considered

The table below indicates the location of the site camp inclusive of site camp infrastructure i.e., storage area, ablution facilities, and a site office. At least ten (10) drill holes (labelled as "DH" on the map).

Area	Latitude	Longitude
Site Camp	28°39'2.72"S	24°37'48.86"E
DH1	28°38'41.10"S	24°38'3.78"E
DH2	28°39'10.70"S	24°38'9.48"E
DH3	28°38'35.82"S	24°38'43.91"E
DH4	28°38'56.97"S	24°38'52.90"E
DH5	28°39'5.24"S	24°39'19.56"E
DH6	28°38'12.03"S	24°39'44.95"E
DH7	28°38'10.77"S	24°39'15.33"E
DH8	28°38'44.50"S	24°40'13.22"E
DH9	28°38'40.90"S	24°39'31.21"E
DH10	28°39'4.48"S	24°39'53.02"E

6.2 The property on which or location where it is proposed to undertake the activity

The Figure below indicates the proposed site layout plan.

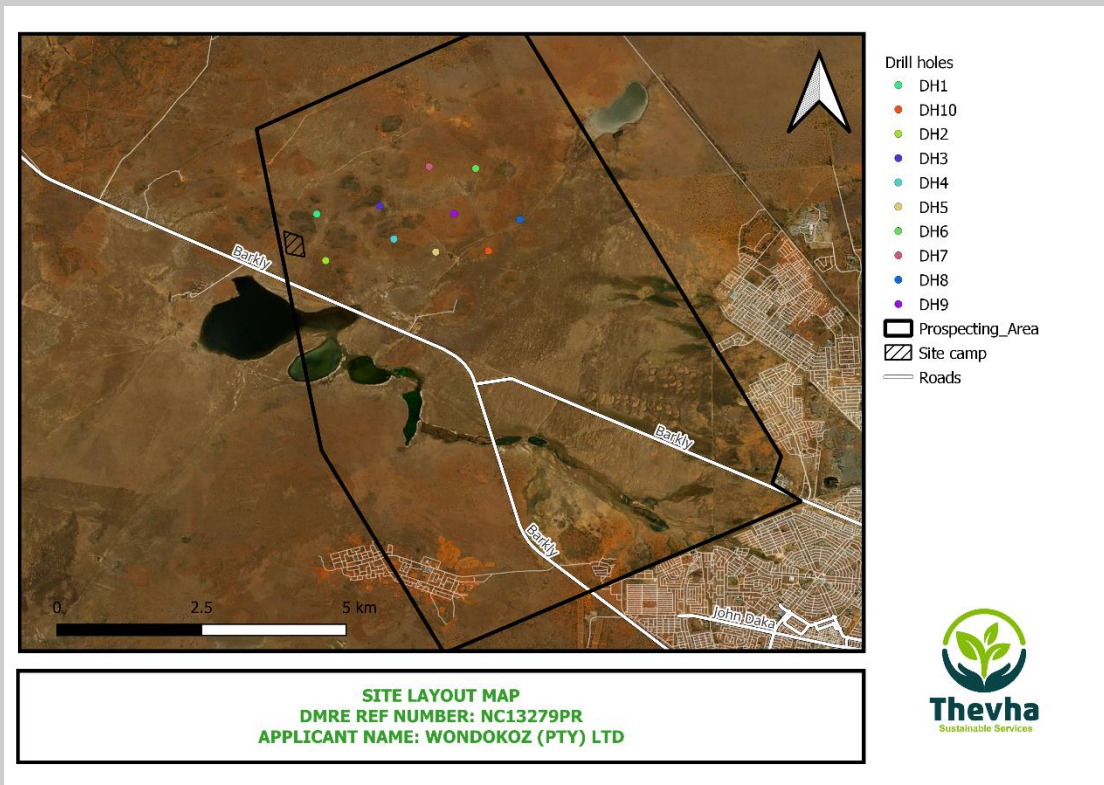


Figure 4: Proposed site layout plan

6.3 The type of activity to be undertaken

In terms of the technologies proposed, these have been chosen based on the long-term success of the company in terms of their prospecting history. The prospecting activities proposed in the Prospecting Works Programme is dependent on the preceding phase as previously discussed, therefore, no alternatives are indicated, but rather a phased approach of trusted prospecting techniques.

6.4 The option of not implementing the activity

Should economical reserves be present and Wondokoz (“the applicant”) does not have the opportunity to prospect, the opportunity to utilize these reserves will be lost. Furthermore, prospecting activities are essential to investigate and confirm the existence/presence of mineral resource and also required to generate a SAMREC compliant mineral resources statement or competent persons report (CPR). Furthermore, investment in the mining industry will not transpire without prospecting activities and should the Prospecting Right application be denied, valuable economic and socio-economic opportunities may be lost.

7. DETAILS OF THE PUBLIC PARTICIPATION PROCESS FOLLOWED

7.1 Public Participation Methodology

The Public Participation Process (PPP) is a requirement of several pieces of South African Legislation and aims to ensure that all relevant Interested and Affected Parties (I&APs) are consulted, involved and their opinions are considered, and a record included in the reports submitted to Authorities. The process ensures that all stakeholders are provided this opportunity as part of a transparent process which allows for a robust and comprehensive environmental study. The public participation process undertaken was done in accordance with Regulation 39 – 44 of the EIA Regulations, 2014 (amended) summarised below;

- (a) fixing a notice board at a place conspicuous to and accessible by the public at the boundary, on the fence or along the corridor of—
 - (i) the site where the activity to which the application or proposed application relates is or is to be undertaken; and
- (b) giving written notice, in any of the manners provided for in section 47D of the Act, to—
 - (i) the occupiers of the site and, if the proponent or applicant is not the owner or person in control of the site on which the activity is to be undertaken, the owner or person in control of the site where the activity is or is to be undertaken and to any alternative site where the activity is to be undertaken;
 - (ii) owners, persons in control of, and occupiers of land adjacent to the site where the activity is or is to be undertaken and to any alternative site where the activity is to be undertaken;
 - (iii) the municipal councillor of the ward in which the site and alternative site is situated and any organisation of ratepayers that represent the community in the area;
 - (iv) the municipality which has jurisdiction in the area;
 - (v) any organ of state having jurisdiction in respect of any aspect of the activity; and
 - (vi) any other party as required by the competent authority;
- (c) placing an advertisement in—
 - (i) one local newspaper;
- (d) conduction of focus or public meetings

The public participation process (PPP) commenced in October 2022, which included the placement of site notices at strategic communication locations around the proposed prospecting area. Attempts were made to conduct a public meeting however; the meeting was unsuccessful due to note disputes within the leadership of the community as well as the landowners. **Appendix C** of this report contains documentation that provides proof of the PPP conducted to date.

7.2 Identification of I&APs

A Draft IAP list has been included in this Report as **Appendix C6**. The IAP database was compiled containing the following categories of stakeholders.

- Provincial Authorities
- Local Authorities
- State-owned companies
- Other organisations, clubs, communities, and unions.
- Communal Property Association
- Community members

7.3 List of Authorities Identified and Notified

The following authorities have been identified and notified of the proposed Prospecting Right:

- Department of Forestry, fisheries, and the Environment (DFFE)
- Department of Water and Sanitation
- Department of Agriculture
- Department of Nature Conservation and Environmental Affairs (Northern Cape)
- Ngwao Boswa Kapa Bokoni is the Provincial Heritage Resources Authority of the Northern Cape
- Sol Plaatje Local Municipality
- Frances Baard District Municipality

7.4 List of Key Stakeholders Identified and Notified

The following key stakeholders have been identified and notified of the proposed Prospecting Right:

- South African National Roads Agency (SANRAL)
- Eskom
- South African Local Government Agency (SALGA)
- Landowner

7.5 Notification of I&APs

Notification documents were prepared in South Africa's communication language i.e., English. All pre-identified I&APs, including those that requested to be registered as I&APs during the initial public consultation phase of the Basic Assessment process were notified of the proposed Prospecting Right Application via the following methods:

- Site notices at various locations on-site. See **Appendix C1**
- Placement of newspaper advert in the DFA See **Appendix C2**

7.6 Description of the Information Provided to the Community, Landowners, and I&APs

Notification documents sent to all pre-identified I&APs included the following information:

- Locality map
- List of activities to be authorised.
- Scale and extent of activities to be authorised.
- The duration of the activity.
- The purpose of the proposed project.
- The prospecting methods to be used.
- Details of the affected property
- Details of the MPRDA and NEMA regulations that must be adhered to.
- The minerals being prospected for.
- Date by which comment, concerns and objections must be forwarded through to TSS.
- Contact details of the Environmental Assessment Practitioner (EAP).

7.7 Summary of Issues Raised by I&APs

(Complete the table summarizing comments and issues raised, and reaction to those responses)

Appendix C7 has been attached for the purpose of providing a detailed response of the comments received on the Draft BAR.

INTERESTED AND AFFECTED PARTIES LIST THE NAMES OF PERSONS CONSULTED IN THIS COLUMN, AND	MARK WITH AN X WHERE THOSE WHO MUST BE CONSULTED WERE IN FACT	DATE COMMENTS RECEIVED	COMMENT RECEIVED	RESPONSE ISSUED
PROVINCIAL AUTHORITY				
Northern Cape Department of Mineral Resources and Energy	X	N/A	No comments received to date	N/A
Department of Forestry, fisheries, and the Environment (DFFE)	X	N/A	No comments received to date	N/A
Department of Water and Sanitation	X	N/A	No comments received to date	N/A
Department of Agriculture	X	N/A	No comments received to date	N/A
Department of Nature Conservation and Environmental Affairs (Northern Cape)	X	N/A	No comments received to date	N/A
Ngwao Boswa Kapa Bokoni is the Provincial Heritage Resources Authority of the Northern Cape	X	N/A	No comments received to date	N/A
LOCAL AUTHORITIES				
Sol Plaatje Local Municipality	X	N/A		N/A
Frances Baard District Municipality	X	N/A	No comments received to date	
STATE OWNED COMPANIES				
South African National Roads Agency (SANRAL)	x	N/A	No comments received to date	
Eskom	x	N/A	No comments received to date	
South African Local Government Agency (SALGA)	x	N/A	No comments received to date	N/A
OTHER PARTIES				
FARM OWNERS				
See attached Appendix C5 for communication with the landowner.				

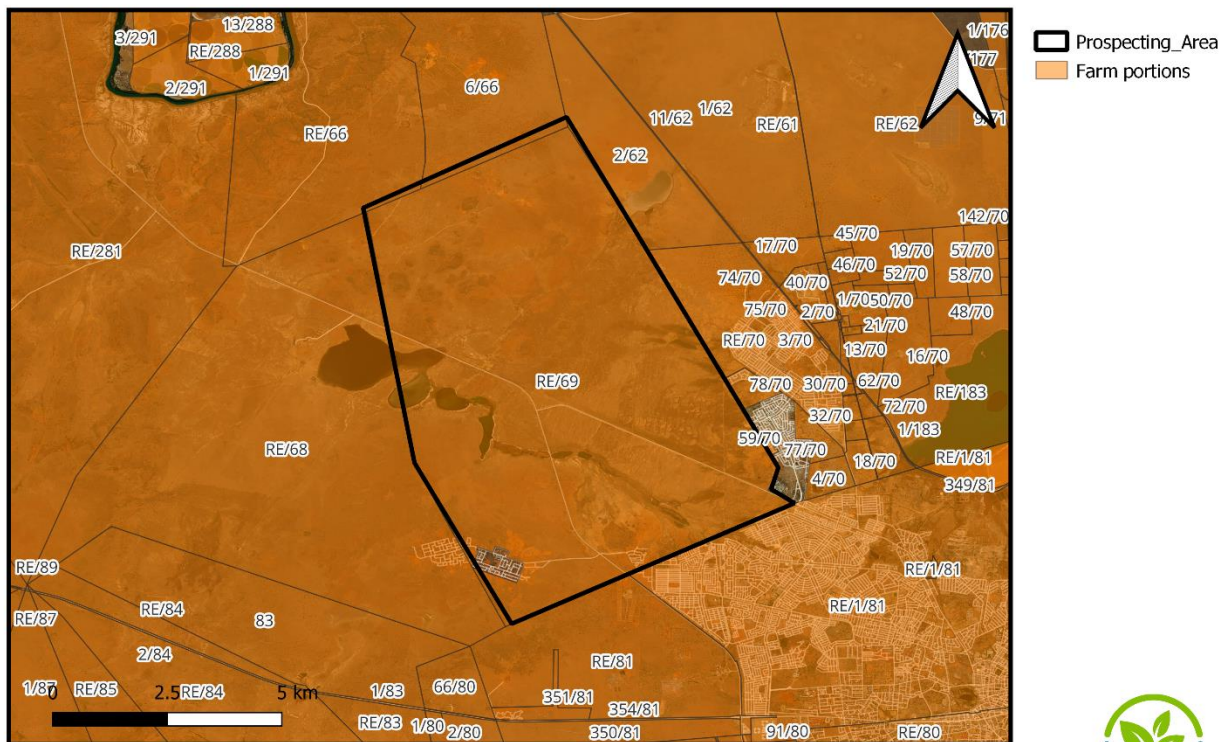
8. ENVIRONMENTAL ATTRIBUTES AND ASSOCIATED ALTERNATIVES

8.1 Baseline Environment

This section describes the baseline receiving environment of the prospecting area. Information in this section is based on desktop studies by the EAP, a site visits conducted during the period of November 2022, input from the public through the I&AP questionnaire. As such, the descriptions below of environmental features represent a consolidation of relevant information to the Application Area.

8.1.1 Cadastral

The application area is noted to be on Portion 0 of Farm Wildebeestkuil 69 indicated by **Figure 5** below. Land ownership has been attached in **Appendix F**.



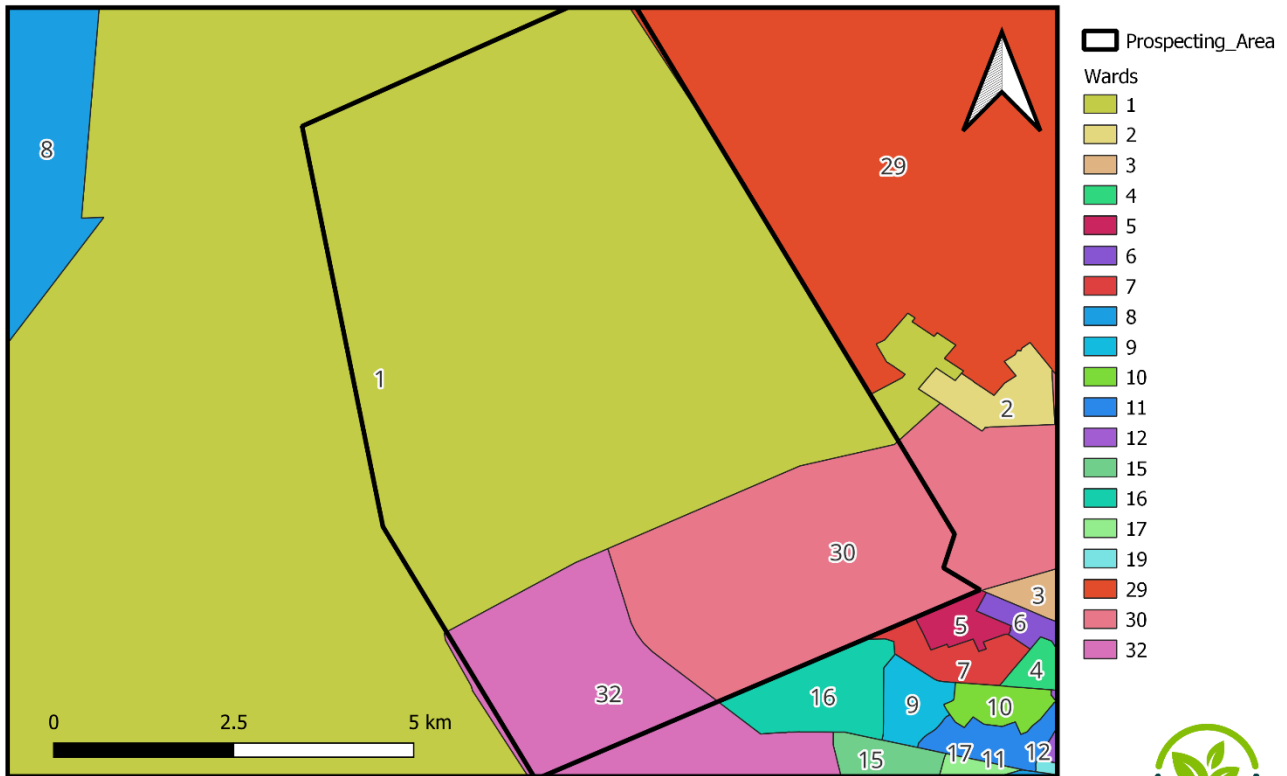
CADASTRAL MAP
DMRE REF NUMBER: NC13279PR
APPLICANT NAME: WONDOKOZ (PTY) LTD



Figure 5: Cadastral Map

8.1.2 Social and Economic

The proposed prospecting site is located in Ward 1, 32 and 30 of the Sol Plaatje Local Municipality under the jurisdiction of the Frances Baard District Municipality (**Figure 6**). Due to the drill holes being located mainly within Ward 1, the socio-economic component indicated below represents ward 1.



ADMINISTRATIVE MAP
DMRE REF NUMBER: NC13279PR
APPLICANT NAME: WONDOKOZ (PTY) LTD

Figure 6: Wards Map

According to Stats SA 2011, the Sol Plaatje Local Municipality is named after Solomon Tshekiso Plaatje who was a South African intellectual, journalist, linguist, politician, translator, and writer. Solomon Plaatje was born just outside Boshof, in the former Orange Free State (now Free State province, South Africa).

The Sol Plaatje Local Municipality is the second largest local municipality in the district with an area covering 3 145 km² and comprising a large urban node in the form of Kimberley, as well as villages and farms. Kimberley is the administrative centre of the municipality. Sol Plaatje Local Municipality is the largest local municipality in the Frances Baard District Municipality in terms of population size.

According to Census 2011, Ward 1 Sol Plaatje Local Municipality has a total population of 5 029, of 84% Colored, 10% Black African and 2% Indian or Asian population groups whilst Afrikaans is the dominant language. At least 77.6% have completed grade 9 or higher, and 40.1% have completed matric.



Figure 7: Gender, Population group statistics (<https://wazimap.co.za/profiles/ward-30901001-sol-plaatjie-ward-1-30901001/>)

Unemployment is not that severe as compared to the district municipality with at least 41.1% of the population being employed whilst the district municipality has 35.16 % employment rate.

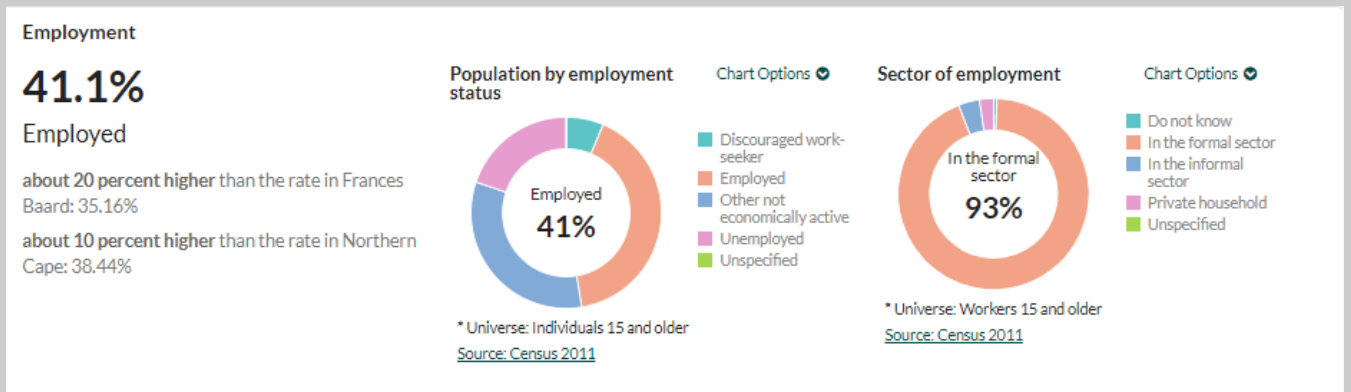


Figure 8: Employment statistics

8.1.3 Geology

The surface geology of the area comprises mainly of Quaternary sediments namely alluvial diamondiferous gravel, sand (red and grey aeolian dune sands), shale and andesite in places amygdaloidal and/porphyritic with quartzite and conglomerate lenses near the bottom.

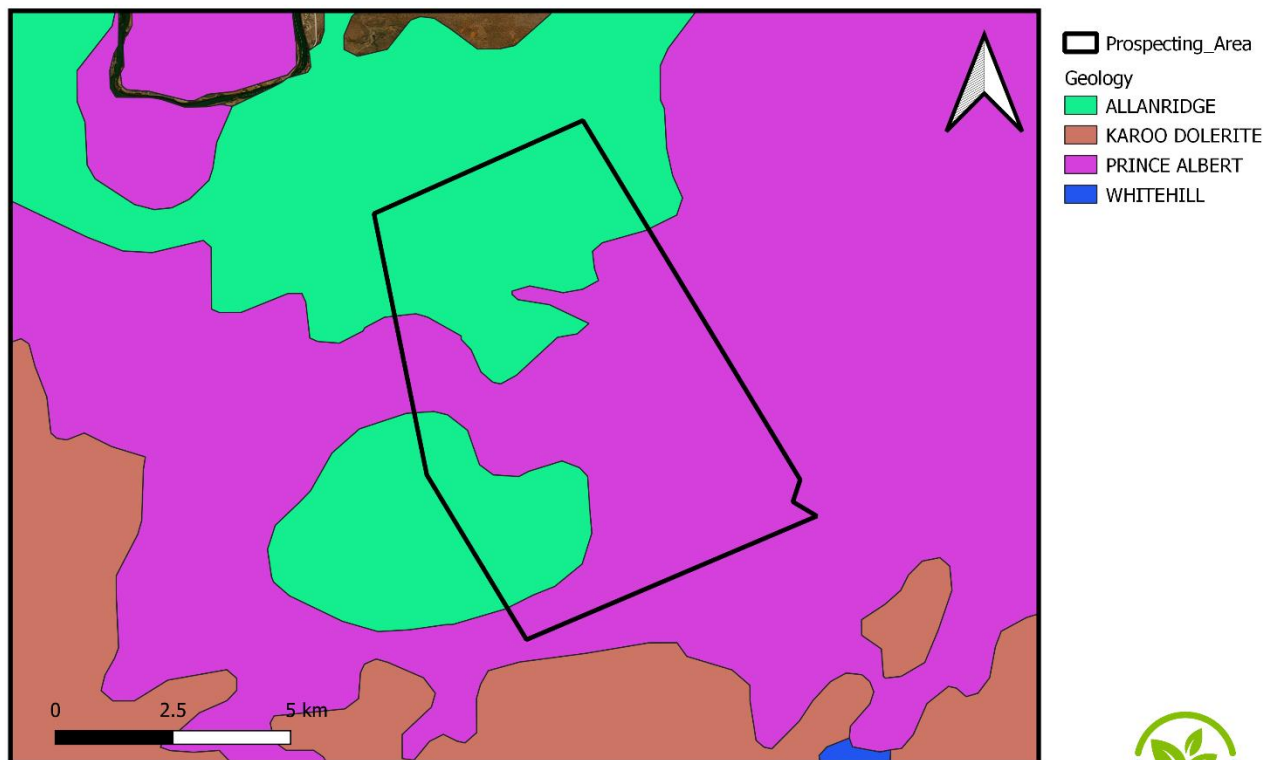
The early Quaternary sediments most likely cover the Karoo Supergroup particularly the Dwyka Group and the Ecca Group indicated by Prince Albert respectively as indicated in **Figure 9** below .

The Dwyka Group is situated on the on glaciated Precambrian bedrock surfaces along the northern basin margin but overlies the Cape Supergroup in the south. This group consists of a selection of lithofacies types. The lithofacies types consist mainly of massive diamictite, stratified diamictite, massive carbonate-rich diamictite, mudrock with stones and mudrock facies. The Ecca Group consists of up to 16 formations. These formations mirror the lateral facies changes that characterize the Ecca Group Formation. The individual formations can be grouped into three geographical areas for descriptive purposes except for the Prince Albert and Whitehill Formation. These formations comprise mainly of sandstone, siltstone, mudrock, limestone and coal seams

depending on the geographical areas. Alluvial diamonds have been extracted from several areas within the Vaal and Orange River systems amongst others. These deposits are formed mostly on Ventersdorp Supergroup lava bedrock. The alluvial diamond deposits occur where the Vaal, Orange and Riet Rivers flow off the younger Karoo cover onto the hard basement.

It is evident that all “calcrete caps” as well as the different fluvial terrace deposits are covered by gravel known as the “Rooikoppie” gravels. The Rooikoppie gravels characterize mobile, multi-cyclic deflation and gravitational deposits where surface scree deposits and/ high fluvial deposits. These deposits are preserved and recycled repeatedly from one land to the next.

Due to the recycling process of material only the most resistant material such as quartz and chert will endure. For this reason diamonds will only be present where the Rooikoppie gravels recycled older diamondiferous fluvial deposits. Unproductive fluvial deposits may overlie diamondiferous Rooikoppie gravels or the other way around.



GEOLOGICAL MAP
DMRE REF NUMBER: NC13279PR
APPLICANT NAME: WONDOKOZ (PTY) LTD



Figure 9: Geological map

8.1.4 Agricultural capability

According to the Department of Forestry, Fisheries and the Environment Screening Tool, a medium sensitivity towards agriculture is noted on small pockets of the study area whilst the remaining portion is within low sensitivity.

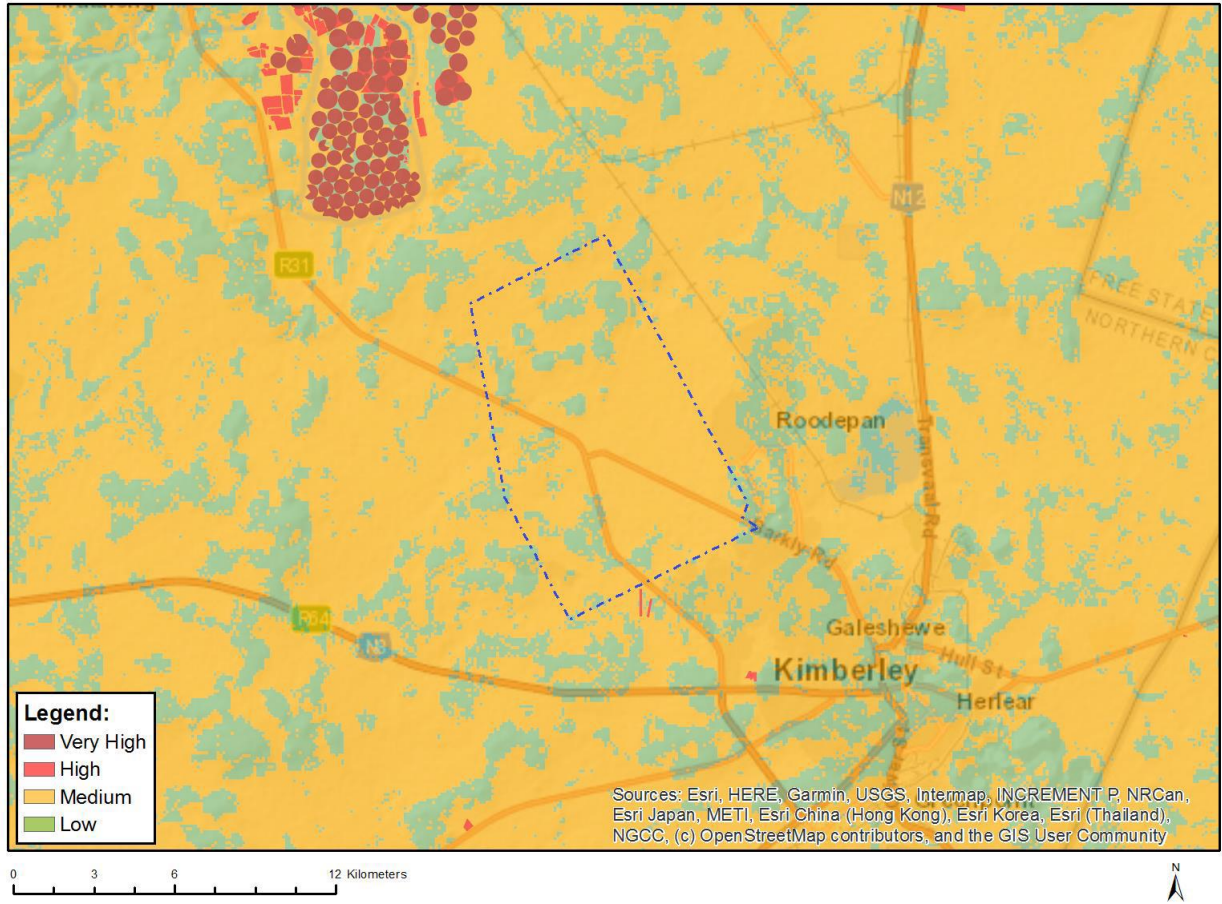


Figure 10: Agricultural sensitivity map

8.1.5 Biodiversity

Critical Biodiversity Areas (CBA) are natural or near natural landscapes that are considered critical for meeting biodiversity targets and thresholds, and which safeguard areas required for the persistence of viable populations of species and the functionality of ecosystems.

Small pockets of the prospecting area are located within Critical Biodiversity Areas 1&2 whilst the majority of the prospecting area is situated within Other Natural Areas.

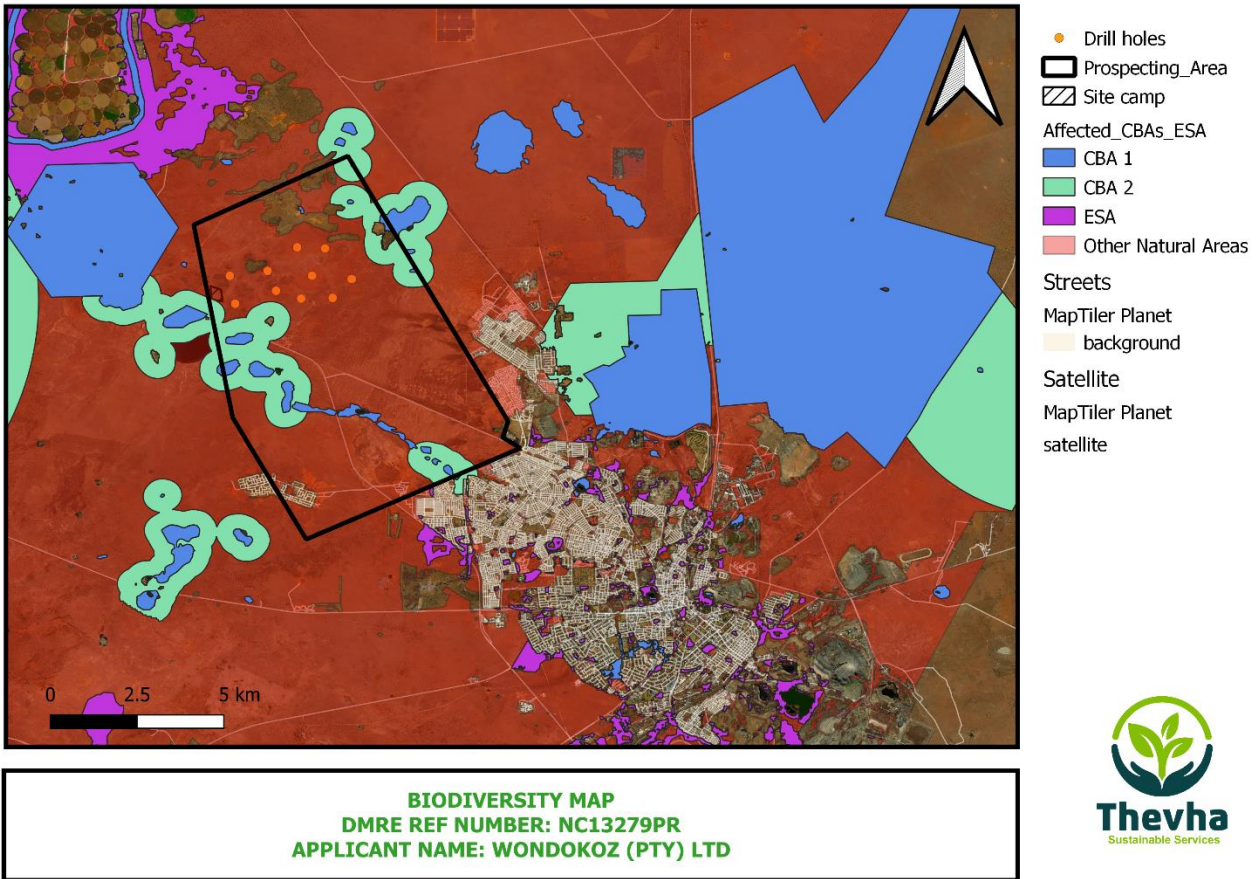




Figure 11: Biodiversity Map

Animal Species

A high sensitivity is noted in terms of animal species. There is an anticipated presence of *Aves-Sagittarius serpentarius*, *Aves-Neotis ludwigii* animal species amongst others as indicated below in **Table 2**. The EAP did not take note of any of the species tabulated below mainly due to the access restriction.

Table 2: Anticipated animal species

<i>Aves-Sagittarius serpentarius</i>	<i>Aves-Neotis ludwigii</i>
	

8.1.6 Land Use

The study area consists of an urban residential area. Based on field observation that could be conducted on public land, the EAP noted the urban nature of the study area characterised by local tar roads, social services e.g., schools, halls, and community centers inclusive of a museum.

8.1.7 Noise

Potential noise sources from the area may emanate from the following sources i.e., road and surrounding land uses.

8.1.8 Air Quality

The sources of air pollution from human activities comprise of three broad categories i.e., stationary sources (mining, quarrying,), community sources (homes or buildings, municipal waste, fireplaces, cooking facilities, laundry services and cleaning plants) and mobile sources combustion-engine vehicles and fugitive emissions from vehicle traffic). Air pollutants are generally classified into suspended particulate matter (dust, fumes, mists, and smokes), gaseous pollutants (gases and vapors) and odors.

Assessment of the proposed prospecting right area has determined that all three categories of air pollution sources are expected to be of a low significance within the reduced application area.

8.1.9 Topography

The mean elevation (m above sea level) ranges from 3728 ft above sea level, to 3907ft above sea level. The study area is situated within a valley in relatively flat profile as indicated by **Figure 12** below.

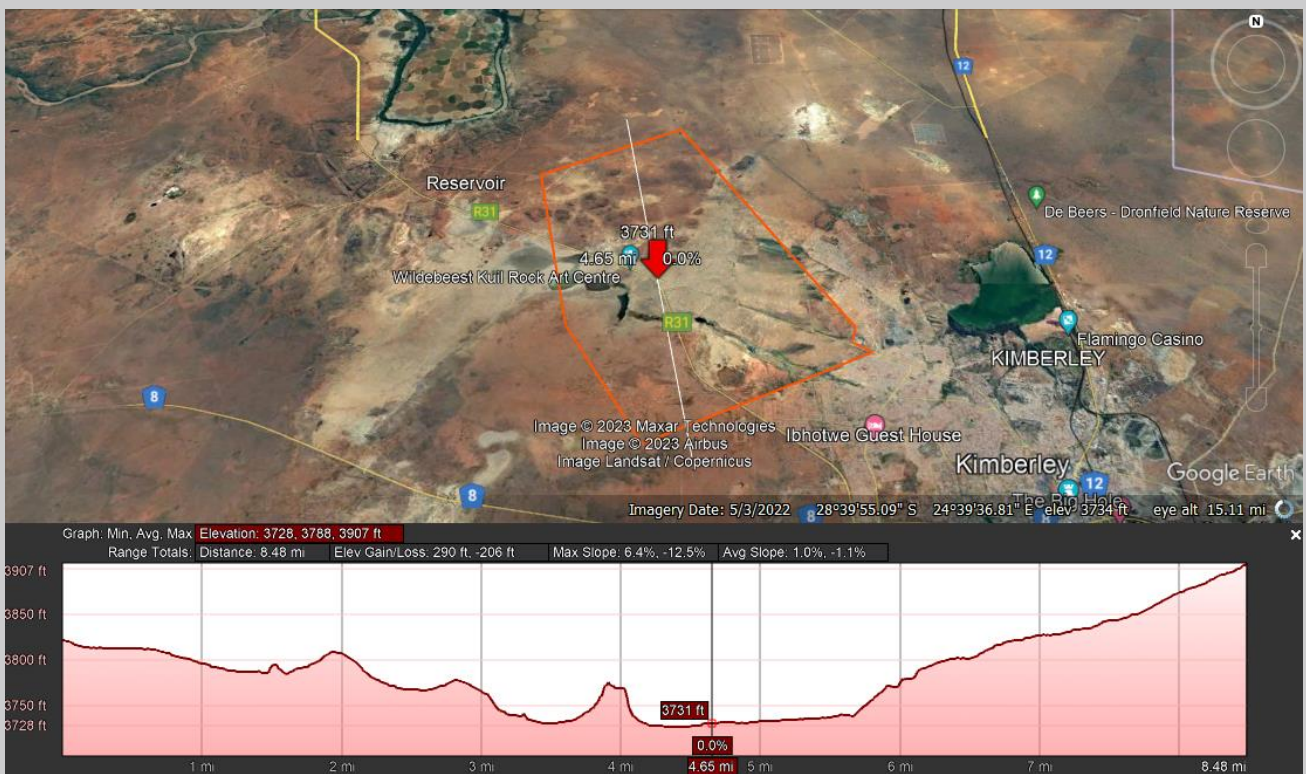


Figure 12: Topographic profile

8.1.10 Climate

In Kimberley, the summers are long and hot; the winters are short, cold, and dry; and it is mostly clear year-round. Over the course of the year, the temperature typically varies from 36°F to 90°F and is rarely below 28°F or above 97°F.

The hot season lasts for 4.0 months, from November 9 to March 10, with an average daily high temperature above 85°F. The hottest month of the year in Kimberley is January, with an average high of 89°F and low of 64°F.

The cool season lasts for 2.6 months, from May 23 to August 12, with an average daily high temperature below 69°F. The coldest month of the year in Kimberley is July, with an average low of 36°F and high of 65°F.

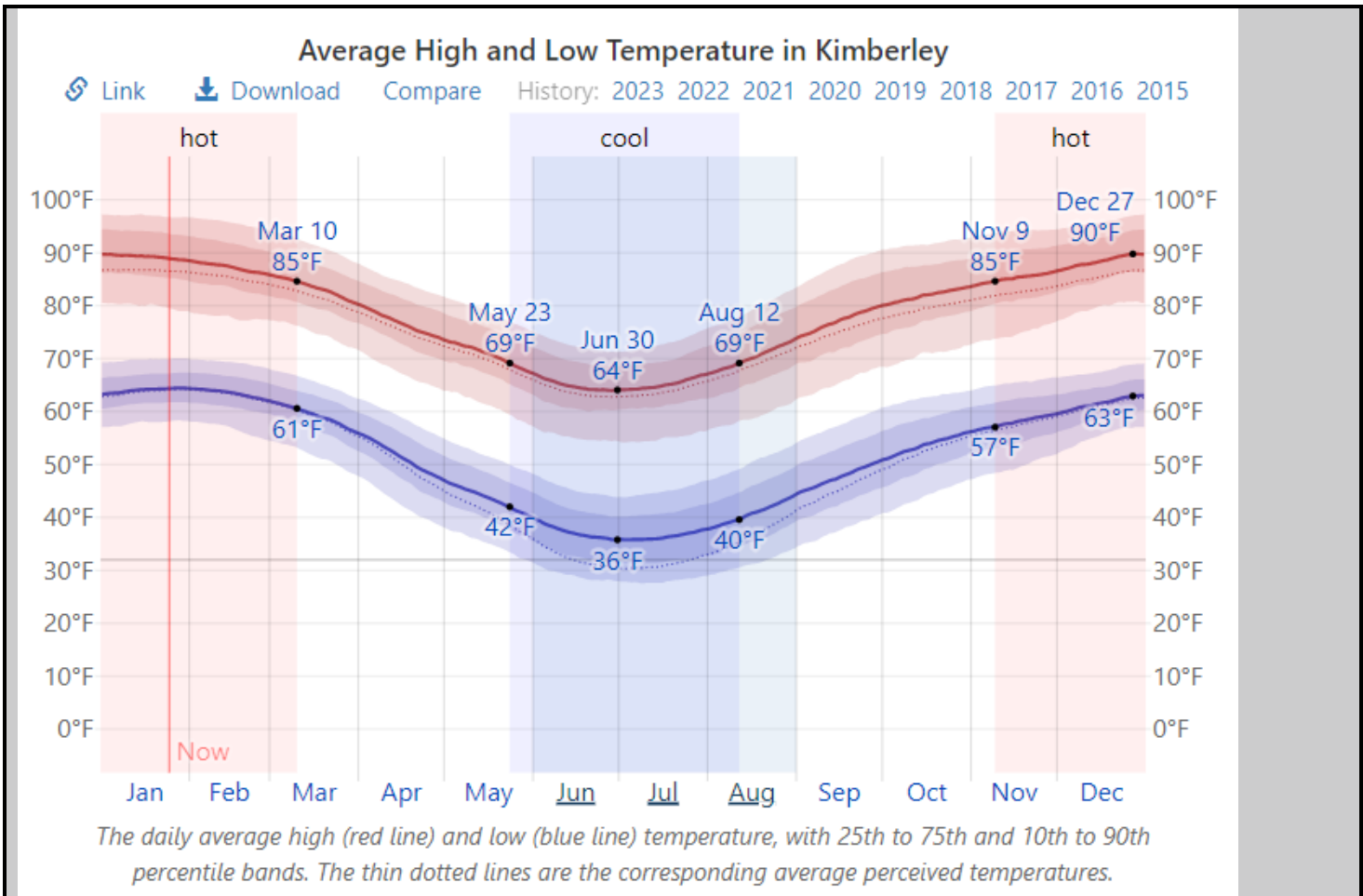


Figure 13: The daily average high (red line) and low (blue line) temperature, with 25th to 75th and 10th to 90th percentile bands. The thin dotted lines are the corresponding average perceived temperatures

8.1.11 Hydrology

Multiple NFEPA wetlands are noted within 500m of the study area. However, the drilling points have been strategically placed to avoid the 500m wetland area.

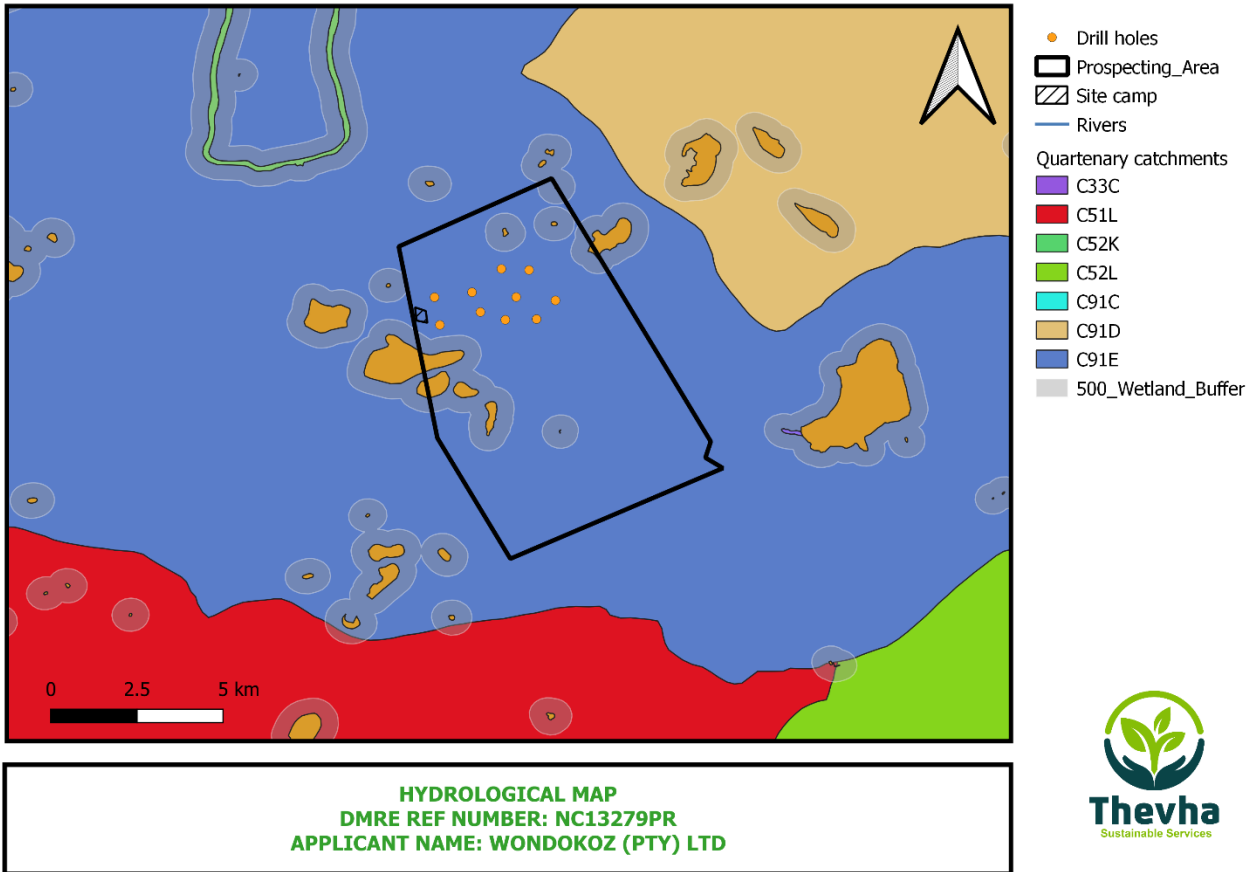


Figure 14: Hydrological map

It must be noted that the original application area falls within a wetland 500m buffers due to the presence of the wetlands in the area. In order to comply with Section 21 Water Uses, the applicant is committed to restrict prospecting activities away from the buffer area and not in the presence of any watercourse as indicated in **Figure 14** above. A consultation meeting will be arranged with the Department of Water and Sanitation to confirm the buffers and the proposed mitigation measure prior to the commencement of the prospecting activities.

8.1.12 Vegetation

The site is predominantly covered by Kimberley Thornveld and Vaalbos Rocky shrubland as indicated by **Figure 15** below.



Figure 15: Vegetation Map

8.1.13 Archaeological

According to the assessment, the table below indicates the summary of the finding. A total of 19 Areas of Interest (AOI) were identified for possible archaeological, potential historical and paleontological material. These include evidence of archaeological material i.e. lithics, historical structures, possible hut floors, circular enclosures, diggings, as well as possible burial grounds.

The four areas fagged in white are within the area earmarked for the proposed site layout plan, specific to the drillholes. With the site camp proposed in the area with high likelihood of having archaeological and/ paleontological materials.

These areas maybe ephemeral pan with dark gravel clasts on the surface and in some instances could be calcrete low gravel or bedrock outcrops

HERITAGE RESOURCE	STATUS/ FINDINGS + PROBABILITY RATING + GRADING
Built Environment (Structures, places, equipment, place)	Numerous farmsteads exist on farm earmarked for proposed development- Grade IV-B
Historical Settlements (Townscapes)	None identified in the study area, probability LOW- Grade IV-B
Landscapes and Natural features of Cultural Significance	None recorded on the study site, probability LOW - Grade IV-B
Archaeological sites (Deposit, features, structures)	One identified, potential site recorded and flagged as *HIGH risk, likelihood and probability rating HIGH
Heritage Sites	One <i>declared</i> and known recorded within the proposed area
Movable artefacts, objects, material	None identified, interest areas noted HIGH likelihood and probability rating
Burial Grounds and graves	None Identified. There is potential to encounter unmarked subsurface burial grounds, graves, human remains *High Risk
Intangible Heritage Sites (Battlefields, Ritual sites)	None recorded or identifiable - awaiting PPP outcomes
Rock art sites (Engravings, caves, shelters)	None identified or noted, probability Medium-Low

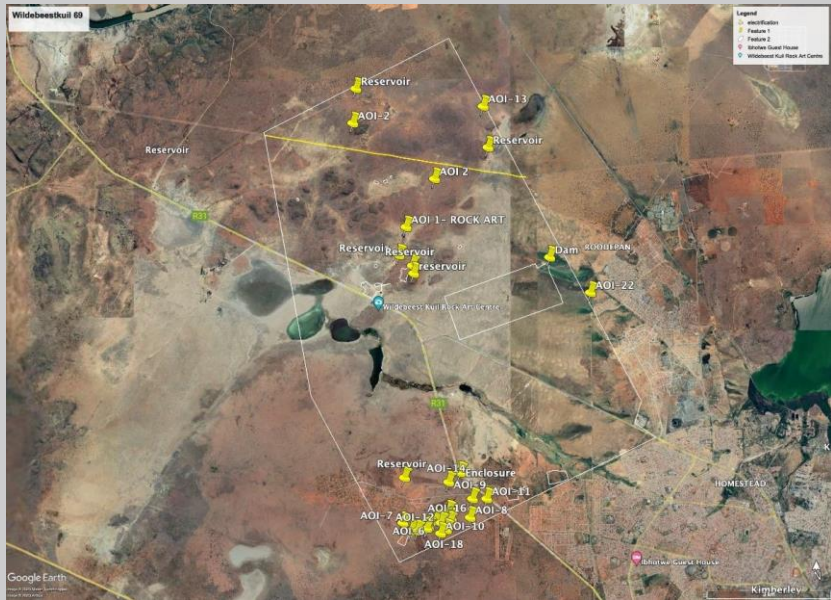


Figure 16: Topographic Map indicating identified areas flagged as possible heritage/ paleontological and/or heritage sites within earmarked area

BURIAL GROUNDS AND GRAVES FINDINGS

The Burial Ground was noted to have identifiable grave stones and/ headstones and burial indicators, the number of graves is uncertain. The site will need to be investigated and a comprehensive condition assessment conducted for each grave to provide adequate and compliant conservation.

The table below indicates the summary of the features with proposed mitigation measures by the heritage specialist.

FEATURES	CO-ORDINATES	ID/ DESCRIPTION	MITIGATION RECOMMENDATIONS
AOI-	- 30°46'17.44"S;17°57'37.50"E	Possible Lithics & Palaeo	Phase II PIA- Mitigation, Collection
AOI 1	- 30°46'43.60"S17°56'49.09"E	Archaeology	Site Documentation, No further Mitigation
AOI-2	-30°47'14.82"S 17°56'23.19"E	Possible Kraal	Site Documentation, No further Mitigation
AOI-3	-30°47'28.63"S 17°55'38.45"E	Possible Kraal	Site Documentation, No further Mitigation
AOI-4	-30°54'28.13"S 17°56'9.04"E	Historical Structure	Site Documentation, Demolition and/ or destruction permit, Grade IV-B
AOI-5	-30°50'32.02"S 17°53'29.51"E	Archaeology	Site Documentation, No further Mitigation
AOI-6	-30°49'14.03"S 17°54'0.67"E	Archaeology	Site Documentation, No further Mitigation
AOI-7	-30°50'13.50"S 17°53'21.87"E	Archaeology	Site Documentation, No further Mitigation
AOI-8	-30°49'51.84"S 17°51'20.20"E	Archaeology	Site Documentation, No further Mitigation
AOI	- 30°52'48.71"S17°52'25.07"E	Possible Lithics	Phase II AIA/ HIA, Mitigation, Collection
Possible Burial Site	- 30°53'13.49"S17°52'46.63"E	Archaeology & BGG	Phase II HIA/ AIA, Mitigation, In situ conservation, buffer, grave relocation*HIGH-RISK
Structure	- 30°53'13.49"S17°52'46.63"E	4 Confirmed Building and Structures	Site Documentation, Demolition and/ or destruction permit

9. METHODOLOGY OF IMPACT ASSESSMENT

The following methodology has used to conduct the impact assessment for the proposed prospecting application.

ASPECT	SCORE	DEFINITION
Nature	- 1	Likely to result in a negative/ detrimental impact
	+1	Likely to result in a positive/ beneficial impact
Extent	1	Activity (i.e. limited to the area applicable to the specific activity)
	2	Site (i.e. within the development property boundary),
	3	Local (i.e. the area within 5 km of the site),
	4	Regional (i.e. extends between 5 and 50 km from the site)
	5	Provincial / National (i.e. extends beyond 50 km from the site)
Duration	1	Immediate (<1 year)
	2	Short term (1-5 years)
	3	Medium term (6-15 years)
	4	Long term (the impact will cease after the operational life span of the project),
	5	Permanent (no mitigation measure of natural process will reduce the impact after
Magnitude/ Intensity	1	Minor (where the impact affects the environment in such a way that natural, cultural and social functions and processes are not affected)
	2	Low (where the impact affects the environment in such a way that natural, cultural and social functions and processes are slightly affected)
Intensity	3	Moderate (where the affected environment is altered but natural, cultural and social functions and processes continue albeit in a modified way)
	4	High (where natural, cultural or social functions or processes are altered to the extent that it will temporarily cease) or
	5	Very high / don't know (where natural, cultural or social functions or processes are altered to the extent that it will permanently cease)
Reversibility	1	Impact is reversible without any time and cost
	2	Impact is reversible without incurring significant time and cost
	3	Impact is reversible only by incurring significant time and cost
	4	Impact is reversible only by incurring prohibitively high time and cost
	5	Irreversible Impact
Probabaility	1	Improbable (the possibility of the impact materialising is very low as a result of
	2	Low probability (there is a possibility that the impact will occur; >25% and <50%),
	3	Medium probability (the impact may occur; >50% and <75%),
	4	High probability (it is most likely that the impact will occur- > 75% probability), or
	5	Definite (the impact will occur),

SIGNIFICANCE AND RISK CATEGORY	DEFINITION
< -10	Low negative (i.e. where this impact would not have a direct influence on the decision to develop in the area).
>-10 <-20	Medium negative (i.e. where the impact could influence the decision to develop in the area).
>-20	High negative (i.e. where the impact must have an influence on the decision process to develop in the area).

10. Impacts and risks identified

(Provide a list of the potential impacts identified of the activities described in the initial site layout that will be undertaken, as informed by both the typical known impacts of such activities, and as informed by the consultations with affected parties together with the significance, probability, and duration of the impacts. Please indicate the extent to which they can be reversed, the extent to which they may cause irreplaceable loss of resources, and can be avoided, managed, or mitigated).

CONSTRUCTION / OPERATION PHASE		
Impact	Social: Safety and security risks to landowners and land occupiers	
Environmental Risk Scoring	Pre-Mitigation	Post-Mitigation
Nature of Impact	-1	-1
Extent of Impact	2	2
Duration of Impact	2	1
Magnitude of Impact	2	2
Reversibility of Impact	3	2
Probability	3	2
Environmental Risk Pre-Mitigation	11 (moderate)	8 (low)
Mitigation Measures:	<ul style="list-style-type: none"> Prior to accessing any portion of land, the Applicant must enter into formal written agreements with the affected land occupants. This formal agreement should additionally stipulate landowner's special conditions which would form legally binding agreement. All homestead gates must be closed immediately upon entry/exit. Protection of landowner's livestock must be of priority to the applicant and must be included in the formal agreements. Vehicles used must be in a roadworthy condition. Speed limits must be adhered to and all local, provincial, and national regulations with regards to road safety and transport. 	
Impact	Disturbance of the natural characteristic of wetlands and rivers	
Environmental Risk Scoring	Pre-Mitigation	Post-Mitigation
Nature of Impact	-1	-1
Extent of Impact	2	2
Duration of Impact	2	1
Magnitude of Impact	2	2
Reversibility of Impact	3	2
Probability	3	2
Environmental Risk Pre-Mitigation	11 (moderate)	8 (low)
Mitigation Measures:	<ul style="list-style-type: none"> It is recommended that all drill sites be located outside (or beyond) the 500m buffer zone for wetlands as much as possible; Drill sites must be decommissioned and rehabilitated on completion of drilling each hole, and not left to be rehabilitated on completion of the drilling programme; and Existing access routes should be prioritised for the programme, with all newly required features adhering to the buffer zone 	
Impact	Clearance of vegetation	
Environmental Risk Scoring	Pre-Mitigation	Post-Mitigation
Nature of Impact	-1	-1
Extent of Impact	1	1
Duration of Impact	2	2

Magnitude of Impact	3	2
Reversibility of Impact	3	3
Probability	5	4
Environmental Risk Pre-Mitigation	13 (moderate)	11 (moderate)
Mitigation Measures		
<ul style="list-style-type: none"> Existing roads must be used as far as possible. In the event that the proposed activity requires new access routes, these routes should avoid all sensitive areas and their ecological buffers. Minimise clearing to areas that are required for invasive works. Where possible, cut vegetation instead of clearing to minimise soil disturbance. Where possible, locate drill sites as close to existing access roads to minimise the extent of vegetation disturbance caused by temporary access roads. Rehabilitate all disturbed areas following invasive prospecting activities to the conditions that existed prior to prospecting. 		
Impact	Soil Compaction	
Environmental Risk Scoring	Pre-Mitigation	Post-Mitigation
Nature of Impact	-1	-1
Extent of Impact	2	2
Duration of Impact	2	2
Magnitude of Impact	3	2
Reversibility of Impact	3	2
Probability	4	2
Environmental Risk Pre-Mitigation	13 (moderate)	9 (low)
Mitigation Measures		
<ul style="list-style-type: none"> All areas that are compacted as a result of prospecting activities must be assessed by the ECO and where necessary, scarifying must take place to loosen the soil. Where topsoil is to be removed, the topsoil and subsoil must be stockpiled separately, with stockpiles of topsoil being no greater than 1.5 meters in height and the replacement of topsoil and subsoil in original order. All drill holes and survey pits must be filled in and rehabilitated. 		
Impact	Disturbance/damage/destruction to Grave Site	
Environmental Risk Scoring	Pre-Mitigation	Post-Mitigation
Nature of Impact	-1	-1
Extent of Impact	2	2
Duration of Impact	2	2
Magnitude of Impact	2	2
Reversibility of Impact	3	3
Probability	2	1
Environmental Risk Pre-Mitigation	10 (low)	9 (low)
Mitigation Measures		
<p>In the event that graves are encountered, it is proposed that a 50 m buffer be maintained around cemeteries and that no construction material be placed near the cemeteries. The construction camp should also be constructed away from the cemeteries.</p>		
Impact	Noise	
Environmental Risk Scoring	Pre-Mitigation	Post-Mitigation
Nature of Impact	-1	-1
Extent of Impact	3	1
Duration of Impact	2	2
Magnitude of Impact	3	2

Reversibility of Impact	1	1
Probability	3	2
Environmental Risk Pre-Mitigation	11 (moderate)	7 (low)
Mitigation Measures		
<ul style="list-style-type: none"> All construction vehicles and machinery must be maintained in good working order. When working or travelling past noise sensitive receptors, no unnecessary hooting or noise should occur. 		
Impact	Dust	
Environmental Risk Scoring	Pre-Mitigation	Post-Mitigation
Nature of Impact	-1	-1
Extent of Impact	3	3
Duration of Impact	2	1
Magnitude of Impact	3	2
Reversibility of Impact	2	2
Probability	3	3
Environmental Risk Pre-Mitigation	12 (moderate)	10 (low)
Mitigation Measures		
<ul style="list-style-type: none"> All vehicles utilising gravel roads must adhere to speed limits. By minimising the removal of vegetation and topsoil in affected areas, this will minimise the potential for dusty conditions. Prospecting activities (including drill sites) must be located 100 m away from the residential area. 		
Impact	Increased runoff & sedimentation	
Environmental Risk Scoring	Pre-Mitigation	Post-Mitigation
Nature of Impact	-1	-1
Extent of Impact	3	2
Duration of Impact	3	2
Magnitude of Impact	4	2
Reversibility of Impact	4	2
Probability	4	4
Environmental Risk Pre-Mitigation	17 (moderate)	11 (moderate)
Mitigation Measures		
<ul style="list-style-type: none"> Due to the sensitivity of the soil layer, the steep topography and the associated high risk of erosion, the access road should be constructed during the dry season and ideally all prospecting should occur only in this season in order to prevent all run-off and erosion. All necessary road mitigation measures must be put in place to slow (or stop) run-off from the proposed access road. This is a vital mitigation measure to prevent erosion. Appropriate speed humps and mitre drains must be constructed along the road for every three metres of elevation in order to slow the flow of water run-off from the road surface. All methods to slow the flow of water off the road surface must be implemented and the feasibility of building an attenuation system to hold surface water and release it slowly into the surrounding environment must be investigated. 		
Impact	Spillage of oils, fuels, and chemicals	
Environmental Risk Scoring	Pre-Mitigation	Post-Mitigation
Nature of Impact	-1	-1
Extent of Impact	2	2
Duration of Impact	2	2

Magnitude of Impact	3	3
Reversibility of Impact	4	3
Probability	4	3
Environmental Risk Pre-Mitigation	14 (moderate)	12 (moderate)
Mitigation Measures	<ul style="list-style-type: none"> Drip trays must be placed under vehicles. Any spills or leaks must immediately be cleaned up and the contaminated soil suitably disposed of. During refuelling of vehicles or equipment, drip trays must be utilised to prevent spills or leaks. Spill clean-up equipment must be available on site at all times. In the event of large spills, this must be reported to the authorities and a specialist spill contractor immediately sought to assist with the clean-up. 	
Impact	Heritage Resources	
Environmental Risk Scoring	Pre-Mitigation	Post-Mitigation
Nature of Impact	-1	-1
Extent of Impact	2	2
Duration of Impact	2	2
Magnitude of Impact	3	3
Reversibility of Impact	4	3
Probability	4	3
Environmental Risk Pre-Mitigation	20 (high)	12 (moderate)
Mitigation Measures		
Archaeological		
<ul style="list-style-type: none"> In the event that excavations and earthmoving activities expose significant sub-terrainian archaeological or heritage resources, such activities must be halted in the immediate vicinity and SAHRA must be notified immediately. Chance finds protocols are attached below. If exposed during development, archaeological resources must be dealt with in accordance with the National Heritage Resources Act (No. 25 of 1999) and at the expense of the developer; Stone age material is likely to be identified through field-based assessment, with that archaeological mitigation accordingly recommended for lithics and stone tool assemblages. A suitably qualified Stone Age archaeologist has investigated the archaeological occurrences of stone age material The NCHPRA should be contacted and/ or informed of any areas where archaeological, heritage and cultural resources are identified and/ or exist to facilitate the protection and conservation thereof In the event of exposing human remains during construction, the matter will fall into the domain of the South African Heritage Resources Agency and will require a professional archaeologist to undertake mitigation if needed. Such work will also be at the expense of the developer. The likelihood of finding archaeological resources is HIGH in accordance with map 1:10 000 Ref 2428DA_19. Potential stone age sites could therefore yield archaeological resources, included grave/burial sites. Considering that this area is within the proposed project area, anticipated impact is HIGH A field assessment must be conducted prior to the conduction of the prospecting activities. 		
Palaeontological		
<ul style="list-style-type: none"> The proposed study area is of LOW to HIGH palaeontological sensitivity. Significant impacts on palaeontological heritage resources due to the proposed prospecting activities can be anticipated in some areas. However, it is the opinion of the EAP that due to the nature of the prospecting activities, the desktop study can be conducted prior to the commencement of the prospecting activities. In the case of any substantial new fossil finds made during construction (e.g., vertebrate teeth, bones, burrows, petrified wood, shells), these should be safeguarded - preferably in situ - and reported by the ECO as soon as possible to SAHRA. 		
Impact	Introduction of alien invasive species	
Environmental Risk Scoring	Pre-Mitigation	Post-Mitigation
Nature of Impact	-1	-1
Extent of Impact	2	2

Duration of Impact	2	1
Magnitude of Impact	4	2
Reversibility of Impact	4	2
Probability	3	2
Environmental Risk Pre-Mitigation	14 (moderate)	8 (low)
Mitigation Measures		
<ul style="list-style-type: none"> Undertake activities in previously disturbed areas. Locate activities on the boundaries of existing disturbance. Use existing access roads as much as possible. Rehabilitate disturbed areas as soon as possible. Manage alien plants within close proximity to prospecting activities. 		
DECOMMISSIONING PHASE		
Impact	Rehabilitation and revegetation	
Environmental Risk Scoring	Pre-Mitigation	Post-Mitigation
Nature of Impact	-1	-1
Extent of Impact	3	3
Duration of Impact	2	2
Magnitude of Impact	3	2
Reversibility of Impact	4	3
Probability	4	2
Environmental Risk Pre-Mitigation	15 (moderate)	11 (moderate)
Mitigation Measures		
<ul style="list-style-type: none"> All areas that have been disturbed must be revegetated and rehabilitated to the satisfaction of the ECO, landowners and DMRE. 		
Impact	Noise	
Environmental Risk Scoring	Pre-Mitigation	Post-Mitigation
Nature of Impact	-1	-1
Extent of Impact	2	1
Duration of Impact	2	2
Magnitude of Impact	3	2
Reversibility of Impact	3	1
Probability	3	2
Environmental Risk Pre-Mitigation	12 (moderate)	7 (low)
Mitigation Measures		
<ul style="list-style-type: none"> All construction vehicles and machinery must be maintained in good working order. When working or travelling past noise sensitive receptors, no unnecessary hooting or noise should occur. 		
Impact	Dust	
Environmental Risk Scoring	Pre-Mitigation	Post-Mitigation
Nature of Impact	-1	-1
Extent of Impact	1	1
Duration of Impact	1	2
Magnitude of Impact	3	2
Reversibility of Impact	3	2

Probability	3	2
Environmental Risk Pre-Mitigation	10 (low)	8 (low)
Mitigation Measures		
<ul style="list-style-type: none"> All vehicles utilising gravel roads must adhere to speed limits. By minimising the removal of vegetation and topsoil in affected areas, this will minimise the potential for dusty conditions. 		

(vii) The positive and negative impacts that the proposed activity (in terms of the initial site layout) and alternatives will have on the environment and the community that may be affected

It is anticipated that the commenting period for the Draft BAR will result in the changes of the original prospecting area especially with regards to the drill hole locations relative to the watercourses.

(viii) The possible mitigation measures that could be applied and the level of risk.

The following potential mitigation measures and residual risks have been provided for each environmental aspect assessed. It should be noted that this report will be made available to I&APs for review and comment, and their comments and concerns will be addressed in the final report to be submitted to the DMR for adjudication.

Furthermore, it should be noted that the results of the public consultation will be used to update the proposed potential mitigation measures prior to the submission of the finalised BAR and EMPr to the DMR for adjudication.

Safety and security risks to landowners and lawful occupiers:

- Ensure construction is consistent with occupational health and safety requirements.
- Prior to accessing any portion of land, the Applicant must enter into formal written agreements with the affected land occupants. This formal agreement should additionally stipulate landowner's special conditions which would form a legally binding agreement.
- Ensure protection of livestock and landowners' property.
- All homestead gates must be closed immediately upon entry/exit.
- All construction and vehicles using public roads must be in a roadworthy condition and their loads secured. Speed limits must be adhered to and all local, provincial, and national regulations with regards to road safety and transport.

Clearance of vegetation:

- Minimise clearing to areas that are required for invasive works. Where possible, cut vegetation instead of clearing to minimise soil disturbance.
- Where possible, locate drill sites and trenches as close to existing access roads to minimise the extent of vegetation disturbance caused by temporary access roads
- Rehabilitate all disturbed areas following invasive prospecting activities to the conditions that existed prior to prospecting.

Soil compaction:

- All areas that are compacted as a result of prospecting activities must be assessed by the ECO and where necessary, scarifying must take place to loosen the soil.

Soil contamination/pollution:

- Drip trays must be placed under vehicles.
- Drilling fluids (mud) must be contained in the steel sumps and any spills or leaks must be cleaned up.
- Machinery to be used for the operation will be of good working conditions.
- Any hydrocarbon spill from the site establishment will be remediated as soon as possible.

Heritage Resources

- In the event that any human remains are discovered. It should also be pointed out that the NHR-Act requires that operations exposing archaeological and historical residues, including modern graves, should cease immediately pending an evaluation by the heritage authorities.
- It is very likely that sub-surface remains of archaeological artefacts and sites could still be encountered during the construction activities associated with the project.
- Such sites would offer no surface indication of their presence due to heavy plant cover in other areas. In the event of discovery such archaeological artefacts or sites during site preparation and mining phase, the Northern Cape Provincial Heritage Resources Authority or SAHRA will be informed immediately, and a Phase 2(two) Heritage Impact assessment should be initiated.

Increased runoff and sedimentation:

- Due to the sensitivity of the soil layer, the steep topography and the associated high risk of erosion, the access road should be constructed during the dry season and ideally all prospecting should occur only in this season in order to prevent all run-off and erosion.

- All necessary road mitigation measures must be put in place to slow (or stop) run-off from the proposed access road. This is a vital mitigation measure to prevent erosion.
- Appropriate speed humps and mitre drains must be constructed along the road for every three metres of elevation in order to slow the flow of water run-off from the road surface. All methods to slow the flow of water off the road surface must be implemented and the feasibility of building an attenuation system to hold surface water and release it slowly into the surrounding environment must be investigated.
- Clearing of vegetation or topsoil must be minimised as far as possible.
- A suitably qualified specialist must monitor that no drilling and trenching are undertaken on or within 100m of a watercourse and within the 1:100 years of a flood line.
- All disturbed areas must be suitably rehabilitated on completion of the works to ensure that erosion does not occur.

Spillage of oils, fuels, and chemicals:

- Drip trays must be placed under vehicles.
- Any spills or leaks must immediately be cleaned up and the contaminated soil suitably disposed of.
- During refuelling of vehicles or equipment, drip trays must be utilised to prevent spills or leaks.
- Spill clean-up equipment must be available on site at all times.
- In the event of large spills, this must be reported to the authorities and a specialist spill contractor immediately sought to assist with the clean-up.

Dust

- All vehicles utilising public gravel roads must adhere to the speed limits.
- By minimising the removal of vegetation and topsoil in affected area, this will minimise the potential for dusty conditions.
- Prospecting activities (including drill and trench sites) must be located away from dwellings as far as possible.

Noise:

- All construction vehicles and machinery must be maintained in good working order.
- When working or traveling past noise sensitive receptors, no unnecessary hooting or noise should occur.

Introduction of alien species:

- Undertake activities in previously disturbed areas.
- Locate activities on the boundaries of existing disturbance.
- Use existing access roads as much as possible.
- Rehabilitate disturbed areas as soon as possible.
- Manage alien plants within close proximity to prospecting activities.

Generation and disposal of waste

- Any excess or waste material or chemicals, including drilling muds etc. must be removed from the site and must preferably be recycled (e.g., oil and other hydrocarbon waste products)
- Any waste materials or chemicals that cannot be recycled must be disposed of at a suitably licensed waste facility
- All permanent facilities must be removed from site upon closure. This will include the associated equipment, material, and waste on site
- Under no circumstances is any form of waste to be disposed of on site

(ix) Motivation where no alternatives sites were considered.

The application area has been selected as the preferred site based on the historical data and available, which indicates the potential for economically viable minerals to occur. In addition, the presence of operational mines within the Dundee town motivates the possibility of the desired mineral to occur.

(x) Statement motivating the alternative development location within the overall site (Provide a statement motivating the final site layout that is proposed)

The location considered for the proposed project include the prospecting sites and associated campsite location and access routes. The location was selected based on a number of criteria, which include the environmental considerations (how sensitive is the area in terms of soils, wetlands, groundwater etc.) and the dependency of the project to the required infrastructure.

- i) Full description of the process undertaken to identify, assess and rank the impacts and risks the activity will impose on the preferred site (In respect of the final site layout plan) through the life of the activity.

(Including (i) a description of all environmental issues and risks that are identified during the **environmental** impact assessment process and (ii) an assessment of the significance of each issue and risk and an indication of the extent to which the issue and risk could be avoided or addressed by the adoption of mitigation measures.)

The impact assessment process may be summarised as follows:

- Identification of proposed prospecting activities including their nature and duration.
- Screening of activities likely to result in impacts or risks.
- Utilisation of the above-mentioned methodology to assess and score preliminary impacts and risks identified.
- Inclusion of I&AP comment regarding impact identification and assessment.
- Finalisation of impact identification and scoring.

11. Summary of specialist reports

An Archaeological and cultural heritage report has been attached as Appendix G.

12. Environmental impact statement.

12.1 Summary of the key findings of the environmental impact assessment

During the proposed prospecting operation impacts may only occur on soils, natural vegetation, surface water, groundwater, sensitive landscapes, air quality, noise, visual aspects, and sites of archaeological and cultural importance should the prospecting method statement not be adhered to.

Alternatives considered for the location campsite and drilling sites has shown that the selected locations would be the most favourable. Wondokoz will undertake measures to ensure that the identified impacts are minimised. Assessment of the impacts with the proposed mitigation measures has shown the significance of the impacts on all affected environmental aspects to be reduced from to low and negligible significance.

Land Use

The study area consists of an urban residential area. Based on field observation that could be conducted on public land, the EAP noted the urban nature of the study area characterised by local tar roads, social services e.g., schools, halls, and community centres inclusive of a museum.

Vegetation

The site is predominantly covered by Kimberley Thornveld and Vaalbos Rocky shrubland.

Assessment of the vegetation within the footprint of the development area has shown presence of natural vegetation. The nature of the proposed activity indicates medium impacts on the vegetation as boreholes drilled will be immediately rehabilitated upon completion through soil filling and plantation of removed indigenous vegetation. This action will be supervised by an Environmental Control Officer. Existing roads must be used as far as possible. If the proposed activity requires new access routes, these routes should avoid all sensitive areas and their ecological buffers. The applicant must further minimise clearing to areas that are required for invasive works. Where possible, cut vegetation instead of clearing to minimise soil disturbance. Consequently, rehabilitate all disturbed areas following invasive prospecting activities to the conditions that existed prior to prospecting.

Wetlands and Rivers

Multiple NFEPA wetlands are noted within 500m of the study area. However, the drilling points have been strategically placed to avoid the 500m wetland area.

Socio-economic

The Sol Plaatje Local Municipality is the second largest local municipality in the district with an area covering 3 145 km² and comprising a large urban node in the form of Kimberley, as well as villages and farms. Kimberley is the administrative centre of the municipality. Sol Plaatje Local Municipality is the largest local municipality in the Frances Baard District Municipality in terms of population size.

According to Census 2011, Ward 1 Sol Plaatje Local Municipality has a total population of 5 029, of 84% Colored, 10% Black African and 2% Indian or Asian population groups whilst Afrikaans is the dominant language. At least 77.6% have completed grade 9 or higher, and 40.1% have completed matric.

Unemployment is not that severe as compared to the district municipality with at least 41.1% of the population being employed whilst the district municipality has 35.16 % employment rate.

All workers must be recruited locally and temporary housed in the campsite to be established on site. The employees will be given strict instruction not to undertake activities that will affect the environment and that may have an impact on the landowner. Waste generated from the site will be collected in proper receptacle and disposed of in registered waste disposal sites.

12.2 Final Site Map

Provide a map at an appropriate scale which superimposes the proposed overall activity and its associated structures and infrastructure on the environmental sensitivities of the preferred site indicating any areas that should be avoided, including buffers. Attach as **Appendix B**

The final map is depicted by **Figure 17** below depicting the randomly selected drill hole locations as well as all the identified sensitive features.

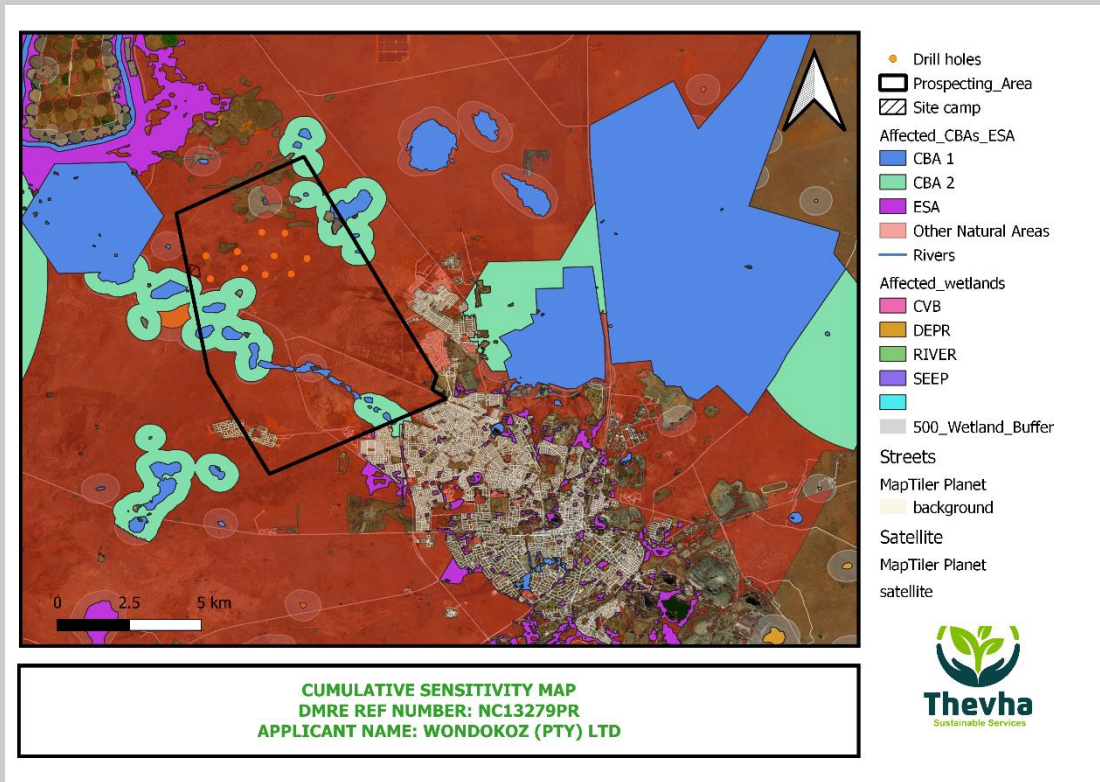


Figure 17: Cumulative sensitivity map

12.3 Summary of the positive and negative implications and risks of the proposed activity and identified alternatives;

A summary of the positive and negative potential impacts associated with the project has been outlined in Section I(i) above.

13. Proposed impact management objectives and the impact management outcomes for inclusion in the EMPr;

Based on the assessment and where applicable the recommendations from specialist reports, the recording of proposed impact management objectives, and the impact management outcomes for the development for inclusion in the EMPr as well as for inclusion as conditions of authorisation.

The EMPr addresses the environmental impacts associated with the project during Construction, Operation, Decommissioning and Rehabilitation of the proposed project. The objectives of the EMPr will be to provide detailed information that will advise the planning design of mining activities in order to avoid and/or reduce impacts that may be detrimental to the environment. The following environmental management objectives are recommended for the proposed mining development and associated infrastructure:

- Alien plant monitoring should take place after construction, throughout the lifecycle of the borrow pit, as well as rehabilitation phase of the borrow pit.

- Development planning must restrict the area of impact to a minimum and designated area only. Monitor and prevent contamination and undertake appropriate remedial actions.
- Limit the visual and noise impact on receptors.
- Avoid impact on possible heritage finds.
- Promote health and safety of workers.
- Limit dust and other emissions to within allowable limits.
- Manage soils to prevent erosion.

14. Aspects for inclusion as conditions of Authorization

Any aspects which must be made conditions of the Environmental Authorization

In authorising the proposed Prospecting project, the following conditions must form part of the environmental authorisation:

- Wondokoz may not alter the location of any of the project activities included in this environmental impact assessment without obtaining the required environmental authorisation to do so under NEMA.
- Wondokoz will not undertake any new activity that was not part of this environmental impact assessment and that will trigger a need for an environmental authorisation without proper authorisation.
- Wondokoz must, where necessary, undertake specialists' studies, management procedures and method statement should the need arise.
- The EMPr must be implemented fully at all stages of the proposed project.
- Should archaeological sites or graves be exposed in other areas during construction work, it must immediately be reported to a heritage practitioner so that an investigation and evaluation of the finds can be made.
- The Fossil Chance Find Protocol must be complied with during the construction/operational phase of the prospecting activity.

15. Description of any assumptions, uncertainties, and gaps in knowledge.

(Which relate to the assessment and mitigation measures proposed)

- The project scope and descriptions are based on project information provided by the client;
- The information presented in this report is based on the information available at the time of compilation of the report
- It is assumed that all data and information supplied by the departments, Applicant or any of their staff or consultants is complete, valid, and true.
- The description of the baseline environment has been obtained from desktop studies and site visit. No specialist assessments were conducted for the preparation of this assessment report.

The EIA Regulations, 2014 outline specific requirements that a description of any assumptions, uncertainties and gaps in knowledge which relate to the assessment and mitigation measures must be provided in the EIR. The assessments undertaken are based on conservative methodologies and these methods attempts to determine potential negative impacts that could occur on the affected environmental aspects.

These impacts may however be of smaller magnitude than predicted, while benefits could be of a larger extent than predicted. This section outlines various limitations to the specialist studies that have been undertaken and indicates, where appropriate, the adequacy of predictive methods used for the assessment. This has been done to provide the authorities and interested and affected parties with an understanding of how much confidence can be placed in this impact assessment.

The EIA has investigated the potential impact on key environmental media relating to the specific environmental setting for the site. A number of desktop assessment were undertaken and result thereof and are presented in this report. The information provided in this BAR and EMPr is therefore considered sufficient for decision-making purposes.

16. Reasoned opinion as to whether the proposed activity should or should not be authorised

i) Reasons why the activity should be authorized or not.

According to the impact assessment undertaken for the proposed project, the key impacts of the project are on soils, wetlands, natural vegetation, and landowners/occupiers. The project will also have positive impacts due to the employment to be created although for a short term. The public will also be requested for their comments. All comments to be received during Public Participation Process will be included in this BAR and EMPr.

These comments will be addressed as far as possible to the satisfaction of the interested and affected parties. The management of the impacts identified in the impact assessment for all phases of the proposed project will be undertaken through a range of programmes and plans contained in the EMPr. Inconsideration of the programmes and plans contained within the EMPr, layouts and method statements compiled for the project, which is assumed will be effectively implemented, there will be significant reduction in the significance of potential impacts.

Based on the above, it is therefore the opinion of the EAP that the activity should be authorised.

17. Conditions that must be included in the authorisation

In authorising the proposed Prospecting project, the following conditions must form part of the environmental authorisation:

- Drill sites are to remain outside of sensitive areas as delineated in the sensitivity map.
- A detailed drill site layout plan should be submitted to the DMR and interested and affected parties once finalised
- An Environmental Control Officer should be appointed for the proposed prospecting project
- Wondokoz may not alter the location of any of the project activities included in this environmental impact assessment without obtaining the required environmental authorisation to do so under NEMA.
- Wondokoz will not undertake any new activity that was not part of this environmental impact assessment and that will trigger a need for an environmental authorisation without proper authorisation.
- Wondokoz must, where necessary, undertake specialists' studies, management procedures and method statement should the need arise.
- The EMPr must be implemented fully at all stages of the proposed project.
- Should archaeological sites or graves be exposed in other areas during construction work, it must immediately be reported to a heritage practitioner so that an investigation and evaluation of the finds can be made.
- The Fossil Chance Find Protocol must be complied with during the construction/operational phase of the prospecting activity.

18. Period for which the Environmental Authorisation is required.

The Applicant requires the prospecting right to be valid for a period of five years.

19. Undertaking

The undertaking is provided at the end of the EMPr and is applicable to both the BAR and EMPr.

20. Financial Provision

State the amount that is required to both manage and rehabilitate the environment in respect of rehabilitation.

R121 097.75. The breakdown is detailed in Section 20.1.

20.1 Explain how the aforesaid amount was derived.

- The amount was derived for 10 boreholes with an average area of 0.180 ha based on diamond drilling.
- Depth per borehole: ~300m (typical for diamond drilling)
- The proposed prospecting activity will utilize existing access roads
- The closure actions and associated period will commence as soon as a borehole is abandoned
- It is assumed that the management and mitigation measures suggested in the BAR relating to ongoing environmental management will be complied with. This includes post drilling clean-up and rehabilitation; and
- It is assumed that the drilling, will be carried out in accordance with industry best practice and that permeable zones are adequately isolated if intercepted (including the usable ground water aquifers)
- The calculation has also been based on the avoidance of the watercourses i.e. wetlands and rivers using 32 m buffers for rivers and 500m for wetlands. This is to ensure that the sensitive environments are protected.

The Regulations Pertaining to the Financial Provision for Prospecting, Mining or Production Operations promulgated under section 44(aE), (aF), (aG), (aH) read with sections 24(5)(b)(ix), 24(5)(d), 24N, 24P and 24R of the National Environmental Management Act, 1998 (Act No.107 of 1998) (20 November 2015) have been considered and this is anticipated to result in an increase in the rehabilitation costs estimated using the regulated quantum.

**SITE NAME: PROSPECTING RIGHT APPLICATION WITHOUT BULK SAMPLING FOR DIAMOND, ON PORTION 0 OF FARM WILDEBEEST KUIL 69 SITUATED WITHIN THE KIMBERLEY MAGISTERIAL DISTRICT, NORTHERN CAPE PROVINCE
(DMRE REFERENCE NUMBER: NC/30/5/1/1/2/13279PR
DATE: 03 APRIL 2023**

				APPLICANT			WONDOKOZ TRADING PTY LTD	
No.	Description	Unit	A Quantity	B Master Rate	C Multiplicati on factor	D Weighin g factor	E=A*B*C*D Amount (Rands)	
1	Dismantling of processing plant and related structures (Including overland conveyors and powerlines)	m3	0	17.91	1	1	0	
2 (A)	Demolition of steel buildings and structures	m ²	0	249.45	1	1	0	
2(B)	Demolition of reinforced concrete buildings and structures	m ²	0	367.62	1	1	0	
3	Rehabilitation of access roads	m2	100	44.64	1	1	R4,464.00	
4 (A)	Demolition and rehabilitation of electrified railway lines	m	0	433.26	1	1	0	
4 (A)	Demolition and rehabilitation of non- electrified railway lines	m	0	236.33	1	1	0	
5	Demolition of housing and/or administration facilities	m ²	0	498.91	1	1	0	
6	Opencast rehabilitation including final voids and ramps	ha	0	253918.4 ₃	1	1	R0.00	

7	Sealing of shafts adits and inclines	m 3	0	133.92	1	1	0
8 (A)	Rehabilitation of overburden and spoils	ha	0	1740355. 57	1	1	0
8 (B)	Rehabilitation of processing waste deposits and evaporation ponds (non-polluting potential)	ha	0	2170156. 72	1	1	0
8 (C)	Rehabilitation of processing waste deposits and evaporation ponds (polluting potential)	ha	0	630726.0 4	1	1	0
9	Rehabilitation of subsided areas	ha	0	145,996,5 3	1	1	0
10	General surface rehabilitation (10 boreholes)	ha	0.523	138,119	1	1	R72,236.25
11	River diversions	ha	0	138119.0 2	1	1	0
12	Fencing	m	0	157.55	1	1	0
13	Water management	ha	0	52516.74	1	1	0
14	2 to 3 years of maintenance and aftercare (10 boreholes)	ha	0.523	18380.86	1	1	R9,613.19
15 (A)	Specialist study	Su m	0	0	1	1	0
15 (B)	Specialist study	Su m	0	0	1	1	0
					Sub Total 1		R86,313.44
1	Preliminary and General			R10,357.61	weighting factor 2		R10,357.61
					1		
2	Contingencies			R8,631.34			R8,631.34
					Subtotal 2		R105,302.39
					VAT (15%)		R15,795.36
					Grand Total		R121,097.75

20.2 Confirm that this amount can be provided for from operating expenditure.

Wondokoz has committed to finance the prospecting costs and the rehabilitation of the site once prospecting has been concluded.

21. Specific Information required by the competent Authority

No other information was requested or required from the Competent Authority.

- i) Compliance with the provisions of sections 24(4)(a) and (b) read with section 24 (3) (a) and (7) of the National Environmental Management Act (Act 107 of 1998). The EIA report must include the: -

(1) Impact on the socio-economic conditions of any directly affected person.

(Provide the **results** of Investigation, assessment, and evaluation of the impact of the mining, bulk sampling, or alluvial diamond prospecting on any directly affected person including the landowner, lawful occupier, or, where applicable, potential beneficiaries of any land restitution claim, attach the investigation report as an Appendix.

The consultation process allowed directly affected parties to raise their concerns. Further to this, it must be noted that I&AP's, including directly affected parties such as landowners, had the opportunity to review and comment on this report. The result of the public consultation is included in the final report submitted to the department for adjudication.

(2) Impact on any national estate referred to in section 3(2) of the National Heritage Resources Act.

(Provide the results of Investigation, assessment, and evaluation of the impact of the mining, bulk sampling or alluvial diamond prospecting on any national estate referred to in section 3(2) of the National Heritage Resources Act, 1999 (Act No. 25 of 1999) with the exception of the national estate contemplated in section 3(2)(i)(vi) and (vii) of that Act, attach the investigation report as Appendix 2.19.2 and confirm that the applicable mitigation is reflected in 2.5.3; 2.11.6.and 2.12.herein).

N/A

u) other matters required in terms of sections 24(4)(a) and (b) of the Act.

(The EAP managing the application must provide the competent authority with detailed, written proof of an investigation as required by section 24(4)(b)(i) of the Act and motivation if no reasonable or feasible alternatives, as contemplated in sub regulation 22(2)(h), exist. The EAP must attach such motivation as Appendix D).

N/A

PART B

ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT

1. INTRODUCTION

1.1 Details of the EAP

The requirements for the provision of the details and expertise of the EAP are included in Part A, Section a) and as Appendix A.

1.2 Description of the Aspects of the Activity

The requirement to describe the aspects of the activity that are covered by the draft environmental management programme is included in PART A, Section d).

2. ENVIRONMENTAL MANAGEMENT PRINCIPLES

It is extremely important for effective environmental management that the Applicant be aware of the general principles upon which sound environmental management is based and that these principles are considered in all aspects of the prospecting operation. NEMA has established a general framework for environmental law, in part by prescribing national environmental management principles that must be applied when making decisions that may have a significant impact on the environment. These principles are briefly summarised in the sections that follow.

2.1 Holistic principle

The Holistic principle, as defined by NEMA (Section 2(4)(b) requires that environmental management must be integrated, acknowledging that all elements of the environment are linked and inter-related and it must take into account the effect of decisions on all aspects of the environment and all people in the environment by pursuing the selection of the best practicable environmental option (defined below).

Holistic evaluation does not mean that a project must be looked at as a whole. It rather means that it must be accepted that there is a whole into which a project introduced. If the indications are that the project could have major adverse effects, the project must be reconsidered and where appropriate re-planned or relocated to avoid an adverse impact or to ensure a beneficial impact.

2.2 Best practicable environmental option

When it is necessary to undertake any action with environmental impacts, the different options that could be considered for the purpose must be identified and defined. The Best Practicable Environmental Option (BPEO) is defined in NEMA as "the option that provides the most benefit or causes the least damage to the environment as a whole, at a cost acceptable to society, in the long term as well as in the short term." Other guidelines typically used for environmental management in terms of other legislation include BPM which is the Best Practicable Means and BAT which is the Best Available Technology.

2.3 Sustainable development

The concept of sustainable development was introduced in the 1980's with the aim to ensure that the use of natural resources is such that our present needs are provided without compromising the ability of future generations to meet their own needs. The constitution of South Africa is built around the fact that everyone has the right to have the environment protected through reasonable legislative and other measures that secure ecologically sustainable development. The National Environmental Principles included in the NEMA require development to be socially, environmentally, and economically sustainable.

2.4 Preventative principles

The preventative principle is fundamental to sustainable development and requires that the disturbance to ecosystems and the pollution, degradation of the environment and negative impacts on the environment be avoided, or, where they cannot be altogether avoided, are minimised and remedied.

2.5 The precautionary principles

The precautionary principle requires that where there is uncertainty, based on available information, that an impact will be harmful to the environment, it is assumed, as a matter of precaution, that said impact will be harmful to the environment until such time that it can be proven otherwise. The precautionary principle requires that decisions by the private sector, governments, institutions, and individuals need to allow for and recognise conditions of uncertainty, particularly with respect to the possible environmental consequences of those decisions. In South Africa, the DWA (then DWAF, now DWS) adopted a BPEO guideline in 1991 for water quality management and in 1994 in the Minimum Requirements document for waste management.

In terms of DWAF Minimum Requirements for the Handling and Disposal of Hazardous Waste, 1994, the precautionary principle is defined as, "Where a risk is unknown; the assumption of the worst-case situation and the making of provision for such a situation." Here the precautionary principle assumes that a waste or an identified contaminant of a waste is "both highly hazardous and toxic until proven otherwise."

In the context of the EIA process in South Africa, the precautionary principle also translates to a requirement to provide sound, scientifically based, information that is sufficient to provide the decision-making authority with reasonable grounds to understand the potential impacts on the environment, the extent thereof and how impacts could be mitigated. If such information is not adequate for this purpose, the relevant authority cannot be satisfied as is required and then the authority should require that further information be collected and provided.

2.6 Duty of care and cradle to grave principle

In terms of the NEMA Section 28, "Every person who causes, has caused or may cause significant pollution or degradation of the environment must take reasonable measures to prevent such pollution or degradation from occurring, continuing or recurring, or, in so far as such harm to the environment is authorised by law or cannot reasonably be avoided or stopped, to minimise and rectify such pollution or degradation of the environment."

By way of example, the principle of "duty of care" in terms of waste management emphasises the responsibility to make sure that waste is correctly stored and correctly transported, as it passes through the chain of custody to final point of disposal. This means that waste must always be stored safely and securely. The company removing and disposing of waste also holds the responsibility to hold the relevant licenses, and that waste is transported alongside the necessary paperwork. "Cradle to Grave" refers to the responsibility a company takes for the entire life cycle of a product, service, or program, from design to disposal or termination. In terms of the DWAF Minimum Requirements for the Handling and Disposal of Hazardous Waste, 1994, "any person who generates, transports, treats or disposes of waste must ensure that there is no unauthorised transfer or escape of waste from his control. Such a person must retain documentation describing both the waste and any related transactions. In this way, he retains responsibility for the waste generated or handled."

This places responsibility for a waste on the Generator, by the "Cradle to Grave" principle, according to which a "manifest" accompanies each load of Hazardous Waste until it is responsibly and legally disposed. This manifest is transferred from one transporter to the next along with the load, should more than one transporter be involved. Once the waste is properly disposed of at a suitable, permitted facility, a copy of the manifest must be returned to the point of origin." Duty of Care offers one strategy to implement sustainable development.

2.7 Polluter pays principle

The "polluter pays principle" holds that the person or organisation causing pollution is liable for any costs involved in cleaning it up or rehabilitating its effects. It is noted that the polluter will not always necessarily be the generator, as it is possible for responsibility for the safe handling, treatment, or disposal of waste to pass from one competent contracting party to another. The polluter may therefore not be the generator but could be a disposal site operator or a transporter.

Through the 'duty of care' principle, however, the generator will always be one of the parties held accountable for the pollution caused by the waste. Accordingly, the generator must be able to prove that the transferral of management of the waste was a responsible action. The polluter pays principle acceding to NEMA dictates that "the cost of remedying pollution, environmental degradation and consequent adverse effects and of preventing, controlling or minimising further pollution, environmental damage or adverse health effects must be paid for by those responsible for harming the environment."

3. FAILURE TO COMPLY WITH ENVIRONMENTAL CONSIDERATIONS

There are a number of penalties for non-compliance or offences. Below are a few extracts of national legislation with regards to non-compliance:

- NEMA Section 24F (2): It is an offence for any person to fail to comply with or to contravene the conditions applicable to any environmental authorization granted for that listed activity. 24F (4) A person convicted for an offence under subsection 2 is liable to a fine not exceeding 5 million rand or to imprisonment not exceeding 10 years or to both such a fine and imprisonment
- NEMA Section 34(6): Whenever any manager, agent or employee does or omits to do an act which it had been his or her task to do, or to refrain from doing on behalf of the employer and which would be an offence under any provision listed in Schedule 3 (relates to all environmental related acts) for the employer to do or omit to do, he or she shall be liable to be convicted and sentenced in respect thereof as if he or she were the employer
- NWA Section 151 (1): "No person may fail to comply with any condition attached to a permitted water use (Water Use License)"
- NWA Section 151 (2): "Any person who contravenes any provision of subsection 1 is guilty of an offence and liable, on the first conviction, to a fine or imprisonment for a period not exceeding 5 years or to both a fine and such imprisonment (10 years for second conviction)"
- In addition, if anyone is convicted of an offence under the act which has resulted in harm, loss or damage to any other person, the court may award damages to be paid by the accused or convicted
- NWA Section 154: Makes provision that it's not only the applicant that may be liable but also an employee or agent acting on their behalf
- In terms of the MPRDA, Section 98, any person is guilty of an offence if he or she fails to comply with the requirements of the issued mining permit
- MPRDA Section 99 (1a): any person convicted of an offence in terms of the MPRDA is liable to a fine not exceeding R100, 000 or to imprisonment to a period not exceeding 2 years or to both such fine and imprisonment.

It is recommended that a procedure for non-compliances (i.e., incentives or disincentives for conformance and non-conformance with the EMPr requirements) must be employed to ensure that the EMPr is adequately implemented. The system to be used must be determined before mining commences, included in the tender documents and contracts, and made clear to all project workers. The system may include that the independent ECO can be authorised to impose spot fines on the Contractor and/or his subcontractors for any of the transgressions detailed below:

- Littering on site
- Lighting of illegal fires on site
- Persistent or un-repaired oil leaks
- Any persons, vehicles or equipment related to the Contractor's operations found within the designated "No – go" areas
- Any vehicles being driven in excess of designated speed limits
- Removal and/or damage to fauna, flora, or heritage objects on site
- Legal contraventions

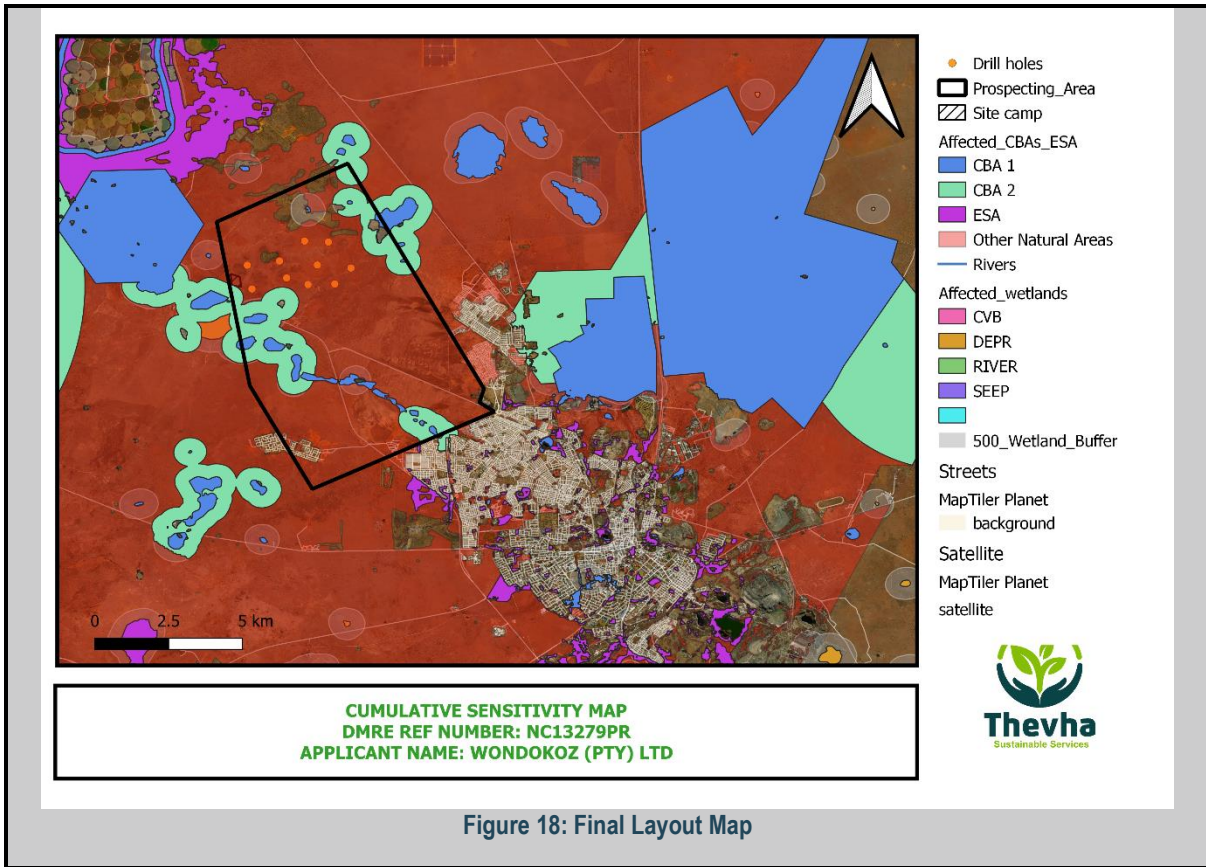
Such fines should be issued in addition to any remedial costs incurred as a result of non-compliance with the Environmental Specifications and or legal obligations.

(a) Composite Map

(Provide a map (Attached as an Appendix) at an appropriate scale which superimposes the proposed activity, its associated structures, and infrastructure on the environmental sensitivities of the preferred site, indicating any areas that should be avoided, including buffers)

The maps below have been presented utilizing existing GIS information and databases from the Department of Water and Sanitation, and SANBI BGIS. The Department of Water and Sanitation has made provision of the rivers and NFEPA wetland databases. This data has been superimposed to the prospecting area to identify the wetlands and rivers present on site. A 32 m buffer has been created for the rivers and a 500m regulated buffer has been created for the wetlands.

Based on this information, the drill holes have been strategically placed out of the buffer zones with the aim of reducing the impacts of the drilling activity within the watercourses.



4. Description of Impact management objectives including management statements

The following are the closure objectives, general principles and objectives guiding closure of the Prospecting areas closure planning:

- Rehabilitation of areas disturbed as a consequence of prospecting to a land capability that will support and sustain a predetermined post-closure land use;
- Removal of all infrastructure/equipment that cannot be beneficially re-used, as per agreements established, and returning the associated disturbed land to the planned final land use;
- Removal of existing contaminated material from affected areas;
- Establishment of final landforms that are stable and safe in the long run;
- Establishment and implementation of measures that meet specific closure related performance objectives;
- Treatment of mine-affected water to ensure compliance with all relevant standards and supply
- Monitoring and maintenance of rehabilitated areas forming part of site closure to ensure the long-term effectiveness and sustainability of measures implemented.

- (i) Determination of closure objectives. (Ensure that the closure objectives are informed by the type of environment described)

The vision, and consequent objective and targets for rehabilitation, decommissioning and closure, aim to reflect the local environmental and socio-economic context of the project, and to represent both the corporate requirements and the stakeholder expectations.

The receiving environment within which the prospecting activities will be undertaken includes the following key land uses:

Concerns raised by the stakeholders consulted during the public participation process for the basic assessment have been taken into consideration and included in the final BAR and EMPr.

As such the applicant has determined the following closure activities in line with the proposed drilling activities;

- Rehabilitate the drill holes to the satisfaction of the DMRE and the land owner as per rehabilitation objectives outlined below.

Rehabilitation objectives

The overall aim of the rehabilitation plan is to rehabilitate the environment to a condition as close as possible to that which existed prior to prospecting. This shall be achieved with a number of specific objectives.

- Making the area safe. I.e., decommission prospecting activities so as to ensure that the environment is safe for people and animals. This entails refilling excavations, sealing boreholes, etc.
- Recreating a free draining landform. This entails earthworks infilling, reshaping, levelling, etc. to recreate as close as possible the original topography and to ensure a free draining landscape.
- Re-vegetation. This involves either reseeding or allowing natural succession depending on the area, climate etc.
- Storm water management and erosion control. Management of storm water and prevention of erosion during rehabilitation. E.g., cut off drains, berms etc. and erosion control where required.
- Verification of rehabilitation success. Entails monitoring of rehabilitation.
- Successful closure. Obtain closure certificate

Future use of the study area

The applicant is of good faith that a mineral resource will be established as such, future plans of the area are linked to future mining activities.

- (ii) Volumes and rate of water use required for the operation.

The volumes of water anticipated for dust suppression and the prospecting activities are not known at this stage. In addition, the Applicant is still investigating the source of the water. Should water need to be abstracted from the watercourse on site, a water use licence application must be submitted under Section 21 a: abstraction of water from a watercourse to the Northern Cape Regional offices.

- (iii) Has a water use licence has been applied for?

No water use licence has been applied for as part of this Prospecting Right application; however, it is anticipated that Section 21 c and i water uses may be applicable. It is recommended that this be confirmed with the Department of Water and Sanitation (DWS) prior to commencement of the invasive prospecting activities that require water and should any of the National Water Act (NWA) Section 21 water uses become applicable, then the Applicant will need to apply for the relevant water uses from the DWS prior to undertaking such activities.

f) Impact Management Actions

(A description of impact management actions, identifying the manner in which the impact management objectives and outcomes contemplated in paragraphs (c) and (d) will be achieved).

Activity	Potential impact	Aspects affected	Phase	Mitigation type
Site clearance	<ul style="list-style-type: none"> • Interference with existing land uses • Disturbance/damage/destruction of the Grave Sites • Sense of place • Fugitive dust emissions • Noise • Loss and fragmentation of the vegetation Community • Disturbance/damage/destruction of heritage sensitive areas • Increased runoff and sedimentation • Degradation and/or destruction of wetland habitats • Contamination of surface and ground water • Displacement of landowners and livestock 	<ul style="list-style-type: none"> • Topography • Soil • Air quality • Groundwater • Social • Ecology • Wetlands • Noise • Heritage 	Construction Operation	Avoid and control through implementation of EMP mitigation measures (e.g., speed limit enforcement, vehicle maintenance)
Storage of construction vehicles	<ul style="list-style-type: none"> • Soil compaction • Contamination of surface and ground water • Spillage of oils, fuels, and chemicals • Soil contamination/pollution 	Surface water Groundwater Soils	Construction Operation	Avoid through implementation of EMP mitigation measures Control through implementation of ESMS

Activity	Potential impact	Aspects affected	Phase	Mitigation type
Transportation to and from drill and trench sites	<ul style="list-style-type: none"> • Soil compaction • Loss and fragmentation of the vegetation community • Fugitive dust emissions • Noise • Spillage of oils, fuels, and chemicals 	Ecology Air quality Noise Pollution Soil	Construction Operation	Avoid through implementation of EMP mitigation measures (e.g., speed limit enforcement, vehicle maintenance)
Storage of hazardous substances	<ul style="list-style-type: none"> • Spillage of oils, fuels, and chemicals 	Surface water Groundwater Soil Pollution	Construction Operation	Avoid through implementation of EMP mitigation measures
Waste management	<ul style="list-style-type: none"> • Generation and disposal of waste 	Pollution	Construction Operation	Avoid through implementation of EMP mitigation measures
Refuelling	<ul style="list-style-type: none"> • Spillage of oils, fuels, and chemicals • Surface water and groundwater contamination • Soil contamination/pollution 	Pollution Groundwater Soil	Construction Operation	Control through implementation of EMPr mitigation measures
Rehabilitation	<ul style="list-style-type: none"> • Encroachment and displacement of an indigenous and vulnerable vegetation community by alien invasive species, potential re-establishment of natural species that were removed, the nature of 	Topography Land use Soil Ecology Heritage	Rehabilitation	Control through implementation of EMPr mitigation measures

Activity	Potential impact	Aspects affected	Phase	Mitigation type
	<p>the erosion will depend on the amount of successful vegetation establishment</p> <ul style="list-style-type: none"> • Soil instability • Increased runoff and sedimentation • Soil pollution/contamination • Disturbance/damage/destruction of heritage sensitive areas • Disturbance/damage/destruction of the Grave 			
<p>Fossil Chance Find Protocol</p>	<ul style="list-style-type: none"> • 		<p>Construction/operational</p>	<ul style="list-style-type: none"> ▪ The following procedure is only required if fossils are seen on the surface or below the surface when excavations/mining commence. ▪ When excavations begin the rocks and must be given a cursory inspection by the geologist on site, environmental officer, or designated person. Any fossiliferous material (plants, insects, bone) should be put aside in a suitably protected place. This way the mining activities will not be interrupted. ▪ Photographs of similar fossil plants must be provided to the developer to assist in recognizing the fossil plants in the shales and mudstones. This information will be built into the EMP's training and awareness plan and procedures. ▪ Photographs of the putative fossils can be sent to the palaeontologist for a preliminary assessment. ▪ If there is any possible fossil material found by the developer/environmental officer/miners then the qualified palaeontologist sub-contracted for this project, should visit the site to inspect the selected material and check the dumps where feasible. ▪ Fossil plants or vertebrates that are considered to be of good quality or scientific interest by the palaeontologist must be removed, catalogued, and housed in a suitable institution where they can be made available for further study. Before the fossils are removed from the site a

Activity	Potential impact	Aspects affected	Phase	Mitigation type
				<ul style="list-style-type: none"> ▪ SAHRA permit must be obtained. Annual reports must be submitted to SAHRA as required by the relevant permits. ▪ If no good fossil material is recovered, then the site inspections by the palaeontologist will not be necessary. If no fossils are found and the excavations have finished, then no further monitoring is required.

i) Financial Provision

1) Determination of the amount of Financial Provision.

Section 24 P of NEMA requires an applicant applying for an environmental authorisation related to mining to comply with the prescribed financial provision for the rehabilitation, closure, and ongoing post decommissioning management of negative environmental impacts before the Minister responsible for mineral resources issues the environmental authorisation. The above-mentioned financial provision may be in the form of an insurance, bank guarantee, trust fund or cash.

Regulations pertaining to the pertaining to the financial provision for prospecting, exploration, mining, or production operations (GNR 1147) were promulgated on the 20th of November 2015.

Wondokoz has undertaken the financial provision determination in line with the requirements of section 11 of the Regulations pertaining to the Financial Provision for Prospecting, Exploration, Mining or Production Operations (GNR 1147). The financial provision determination for the proposed project is submitted to the Department of Mineral Resources for their consideration.

(a) Describe the closure objectives and the extent to which they have been aligned to the baseline environment described under the Regulation.

Considering the relatively limited impact of the proposed prospecting activities, the closure objectives are aimed at re-instating the landform, land use and vegetation units to the same as before prospecting operations take place unless a specific, reasonable alternate land use is requested by the landowner. As such, the intended end use for the disturbed prospecting areas and the closure objectives will be defined in consultation with the relevant landowner. Proof of such consultation will be submitted together with the Application for Closure Certificate. The overall aim of the rehabilitation plan is to rehabilitate the environment to a condition as close as possible to that which existed prior to prospecting. This shall be achieved with a number of specific objectives

1. Making the area safe. I.e., Decommission prospecting activities so as to ensure that the environment is safe for people and animals. This entails refilling excavations, sealing boreholes, etc.
2. Recreating a free draining landform. This entails earthworks infilling, reshaping, levelling, etc. to re-create as close as possible the original topography and to ensure a free draining landscape.
3. Re-vegetation. This involves either reseeded or allowing natural succession depending on the area, climate, etc.
4. Storm water management and erosion control. Management of storm water and prevention of erosion during rehabilitation. E.g., cut off drains, berms etc. and erosion control where required.
5. Verification of rehabilitation success. Entails monitoring of rehabilitation.
6. Successful closure. Obtain closure certificate.

(b) Confirm specifically that the environmental objectives in relation to closure have been consulted with landowner and interested and affected parties.

The Public Participation Process (PPP) is a requirement of several pieces of the South African legislation and aims to ensure that all relevant Interested and Affected Parties (I&APs) are consulted, involved and their opinions are taken into account and a record included in the reports submitted to Authorities. The process ensures that all stakeholders are provided this opportunity as part of a transparent process which allows for a robust and comprehensive environmental study.

The PPP which forms part of the Prospecting Right application needs to be managed sensitively and according to best practises in order to ensure and promote:

- Compliance with national legislation.
- Establish and manage relationships with key stakeholder groups.
- Encourage involvement and participation in the environmental study and authorisation/ approval process.

As such, the purpose of the PPP and stakeholder engagement process is to:

- Introduce the proposed project.
- Explain the environmental authorisations required.
- Explain the environmental studies already completed and yet to be undertaken (where applicable).
- Determine and record issues, concerns, suggestions, and objections to the project.
- Provide opportunity for input and gathering of local knowledge.
- Establish and formalise lines of communication between the I&APs and the project team.
- Identify all significant issues for the project.
- Identify possible mitigation measures or environmental management plans to minimise and/or prevent negative environmental impacts and maximise and/or promote positive environmental impacts associated with the project.

- (c) Provide a rehabilitation plan that describes and shows the scale and aerial extent of the main mining activities, including the anticipated mining area at the time of closure.

The main aim in developing this rehabilitation plan is to mitigate the impacts caused by the prospecting activities and to restore land back to a satisfactory standard. It is best practice to develop the rehabilitation plan as early as possible so as to ensure the optimal management of rehabilitation issues that may arise. It is important that the project's closure plan is defined and understood before starting the process and is complementary to the rehabilitation goals. Rehabilitation and closure objectives need to be tailored to the project and be aligned with the EMP. The overall rehabilitation objectives for this project are as follows:

- Maintain and minimise impacts to the ecosystem within the study area.
- Re-establishment of the pre-developed land capability to allow for a suitable post-mining land use.
- Prevent soil, surface water and groundwater contamination.
- Comply with the relevant local and national regulatory requirements.
- Maintain and monitor the rehabilitated areas.

Successful rehabilitation must be sustainable, requires an understanding of the basic baseline environment and project management to ensure that the rehabilitation program is a success. It is noted that an application for environmental authorisation must be submitted for closure in accordance with

Listing Notice 1 Activity 22:

The decommissioning of any activity requiring –

I. a closure certificate in terms of Section 43 of the Mineral and Petroleum Resources Development Act, 2002 (Act 28 of 2002).

II. A prospecting right, mining permit, production right or exploration right, where the throughput of the activity has reduced by 90% or more over a period of 5 years excluding where the competent authority has in writing agreed that such reduction in throughput does not constitute closure.

LANDFORM DESIGN, EROSION CONTROL AND REVEGETATION

Landform, erosion control and re-vegetation is an important part of the rehabilitation process. Landform and land use are closely interrelated, and the landform should be returned as closely as possible to the original landform.

Community expectations, compatibility with local land use practices and regional infrastructure, or the need to replace natural ecosystems and faunal habitats all support returning the land as closely as possible to its original appearance and productive capacity. This requires the following:

- Shape, level and de-compact the final landscape after removing all the project infrastructure, dress with topsoil and, where necessary, vegetate with indigenous species. Commission specialists to assist in planning re-vegetation and the management of environmental impact, as required.
- Remove access roads with no beneficial re-use potential by deep ripping, shaping, and levelling after the removal and disposal of any culverts, drains, ditches and/or other infrastructure. Natural drainage patterns are to be reinstated as closely as possible.

- Shape all channels and drains to smooth slopes and integrate into the natural drainage pattern.
- Construct contour banks and energy dissipating structures as necessary to protect disturbed areas from erosion prior to stabilisation.
- Promote re-vegetation through the encouragement of the natural process of secondary succession.
- Natural re-vegetation is dependent on de-compaction of subsoils and adequate replacement of the accumulated reserves of topsoil (for example, over the borehole sites), so as to encourage the establishment of pioneer vegetation.
- Remove alien and/or exotic vegetation.
- Undertake a seeding programme only where necessary, and as agreed with the re-vegetation specialist.

POST-CLOSURE MONITORING AND MAINTENANCE

Prior to decommissioning and rehabilitation activities, a monitoring programme shall be developed and submitted to the relevant authority for approval, as a part of the Final Rehabilitation Plan. The programme is to include proposed monitoring during and after the closure of the prospecting borehole sites and related activities. It is recommended that the post-closure monitoring include the following;

- Confirmation that any waste, wastewater or other pollutants that is generated as a result of decommissioning will be managed appropriately, as per the detailed requirements set out in the Final Rehabilitation Plan.
- Confirmation that all de-contaminated sites are free of residual pollution after decommissioning.
- Confirmation that acceptable cover has been achieved in areas where natural vegetation is being re-established. 'Acceptable cover' means re-establishment of pioneer grass communities over the disturbed areas at a density similar to surrounding undisturbed areas, non-eroding and free of invasive alien plants.
- Confirmation that the prospecting borehole sites are safe and are not resulting in a pollution hazard.

Annual environmental reports will be submitted to the Designated Authority and other relevant Departments for at least one-year post-decommissioning. The frequency and duration of this reporting period may be increased to include longer term monitoring, at intervals to be agreed with the Designated Authority.

The monitoring reports shall include a list of any remedial action necessary to ensure that infrastructure that has not been removed remains safe and pollution free and that rehabilitation of project sites are in a stable, weed and free condition.

(d) Explain why it can be confirmed that the rehabilitation plan is compatible with the closure objectives.

The closure plan will assist the proposed mining operation to achieve the following objectives:

- Comply with relevant legislation and policy requirements with regards to mine rehabilitation.
- Avoid or mitigate impacts associated with the project which may be detrimental to the environment.
- Land rehabilitation to a predetermined and agreed upon state that allows sustainable land use and capability of the site, that is to return the site to the condition that existed prior to mining or an agreed upon state.
- Cost effective and efficient closure of mining operations.
- Management and monitoring of the area post-closure.

The rehabilitation plan will thus be aligned to the closure objectives and tailored to the project to achieve these objectives. It will include information about the site prior to the mining operation and provide information on the maintenance of resources required for the rehabilitation process, as well detail how rehabilitation will be undertaken. It will also provide information on the management and monitoring of disturbance to avoid or minimise detrimental impacts, as well as an estimate of the financial closure provision. It will also include information associated with post-closure environmental monitoring of the site to ensure that the rehabilitation plan is followed, and its objectives are achieved.

(e) Calculate and state the quantum of the financial provision required to manage and rehabilitate the environment in accordance with the applicable guideline.

Refer to Section 20.1 of the BAR for a detailed breakdown.

- (f) Confirm that the financial provision will be provided as determined.

Wondokoz has committed to finance the prospecting costs and the rehabilitation of the site once prospecting has been concluded.

- l) Indicate the frequency of the submission of the performance assessment/ environmental audit report.

The result of environmental monitoring and compliance to the approved EMPR will be undertaken annually and submitted to the DMR in the form of an environmental performance assessment. Included in the report will be the following relevant information:

- The period when the performance assessment was conducted.
- The scope of the assessment.
- The procedures used for conducting the assessment.
- Interpreted information gained from monitoring the EMPR.
- Evaluation criteria used during the assessment.
- Results of the assessment are to be discussed and mention must be made of any gaps in the EMPR and how it can be rectified.
- Yearly updated layout plans.

Any emergency or unforeseen impacts will be reported immediately to the DMR and other relevant government departments.

- m) Environmental Awareness Plan

1. Manner in which the applicant intends to inform his or her employees of any environmental risk which may result from their work.

The Applicant and Contractor must ensure that all relevant employees are trained and capable of carrying out their duties in an environmentally responsible and compliant manner and are capable of complying with the relevant environmental requirements. To obtain buy-in from staff, individual employees need to be involved in:

- Identifying the relevant risks.
- Understanding the nature of risks
- Devising risk controls.
- Given incentive to implement the controls in terms of legal obligations.

Training and/or awareness should be raised and effectively communicated prior to the commencement of the prospecting activity. Training sessions should incorporate the management plans addressed in the EMPR as well as any new information and documentation.

2. Manner in which the applicant intends to inform his or her employees of any environmental risk which may result from their work.

Environmental awareness could be fostered by induction course for all personnel on site, before commencing site visits. Personnel should also be alerted to particular environmental concerns associated with their tasks for the area in which they are working. Courses must be given by suitably qualified personnel and in a language and medium understood by personnel. The environmental awareness training programme will include the following:

1. Occupational Health and Safety Training (OHS).
2. Environmental Awareness Training EMPR management actions.

Environmental awareness training will focus on the following specific aspects and be undertaken in "Toolbox talk" topics prior to site access:

1. Waste collection and disposal.
2. EMPR management options and application.

3. Manner in which risks will be dealt with in order to avoid pollution or the degradation of the environment.

The following measures are provided to control any causes of pollution or degradation during the prospecting activities.

- Contain potential pollutants and contaminants (where possible) at source.
- Handling of potential pollutants and contaminants (where possible) must be conducted in bunded areas and on impermeable substrates.
- Ensure the timeous clean-up of any spills.
- Implement a waste management system for all waste stream present on site.
- Investigate any I&AP claims of pollution or contamination as a result of mining activities.

n) Specific information required by the Competent Authority
 (Among others, confirm that the financial provision will be reviewed annually).

No specific information requirements have been made by the Competent Authority at this stage.

2) UNDERTAKING

The EAP herewith confirms

- (a) The correctness of the information provided in the reports
- (b) The inclusion of comments and inputs from stakeholders and I&APs ;
- (c) The inclusion of inputs and recommendations from the specialist reports where relevant; and
- (d) That the information provided by the EAP to interested and affected parties and any responses by the EAP to comments or inputs made by interested and affected parties are correctly reflected herein.



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Signature of the environmental assessment practitioner:

THEVHA SUSTAINABLE SERVICES (PTY) LTD
 Name of company:

3rd April 2023

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 Date: