

BASIC ASSESSMENT REPORT & ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT

PROSPECTING RIGHT APPLICATION BY RAYCOM RESOURCES FOR COAL, PSUEDOCOAL AND TORBANITE/OIL SHALE RESOURCES ON PORTION 1 AND THE REMAINDER OF THE FARM DUNOLLY NO. 11 113-GU, PORTIONS 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 AND THE REMAINDER OF THE FARM CANEWDON LODGE NO. 11 370-GU, PORTIONS 1, 2, 6, 8, 9, 10, 11, 12, 13, 14 AND THE REMAINDER OF THE FARM LOT 221 EMPANGENI NO. 10 379-GU, PORTIONS 3, 6, 7, AND 8 OF THE FARM LOT 197 EMPANGENI NO. 12 418-GU, MULTIPLE ERVEN OF THE WATERSTONE TOWNSHIP-GU AND PORTIONS 2, 3, 8, THE REMAINDER OF PORTION 5, AND THE REMAINDER OF FARM WILTON PARK NO. 11 484-GU SITUATED IN UMHLATHUZE LOCAL MUNICIPALITY UNDER KING CETSWAYO DISTRICT MUNICIPALITY, UNDER EMPANGENI MAGISTERIAL DISTRICT, KWAZULU-NATAL PROVINCE

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COMPILED FOR:



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2021

DRAFT REPORT

DMRE Ref: KZN 30/5/1/1/2/ 11025 PR.

Table of Contents

1. IMPORTANT NOTICE	10
PART A	12
SCOPE OF ASSSMENT AND BASIC ASSESSMENT REPORT	12
1. Contact Person and correspondence address	12
2. Locality map	20
3. Description of the scope of the proposed overall activity.....	22
(i) Listed and specified activities.....	24
(ii) Description of the activities to be undertaken	25
Phase 1 – Desktop Study - Analysis of Existing Data GIS & analytical desktop studies Surveys	26
Phase 2 – Aerial and Ground Geophysics, Multi-Spectral AND Aerial Surveys	27
Phase 3 –Drilling and Reconnaissance Resource Generation	28
Phase 4 – - Resource drilling, Sampling and Analysis, Resource Estimation and Prefeasibility Study.....	29
Phase 5- Feasibility Study	29
4. Policy and Legislative Context.....	30
5. Need and desirability of the proposed activities.	33
6. Motivation for the overall preferred site, activities and technology alternative.....	35
7. Full description of the process followed to reach the proposed preferred alternatives within the site.	37
8. Details of the development footprint alternatives considered.	38
a. the property on which or location where it is proposed to undertake the activity;	38
b. the type of activity to be undertaken;.....	38
c. the design or layout of the activity;.....	38
d. the technology to be used in the activity;	38
e. the operational aspects of the activity; and	38
f. the option of not implementing the activity.	38
9. Details of the Public Participation Process Followed	42
a. Summary of issues raised by I&Aps	50
b. The Environ/mental attributes associated with the alternatives.(The environmental attributed described must include socio-economic, social, heritage, cultural, geographical, physical and biological aspects).....	96
a) Baseline Environment	96
Topography	96
Regional and Local Climate	97
Rainfall.....	99
Air Quality	100

Regional Ambient Air Quality	100
Noise	101
Public roads	104
General Geology	105
Coal seams	107
Coal qualities	108
Structure and intrusions	109
Local Geology	110
Soil Study	110
Ground Water	116
Acid generation capacity	116
□ Acid mine drainage	116
Hydrogeology	117
Potential contaminants	118
Aquifer classification	118
Flora and Fauna	120
Biodiversity and Development:	122
Heritage Resources	128
Agricultural Support Plan	130
Socio-Economic	131
Socio-economic Environment	133
Employment	136
Key Findings	137
b) Description of the current land uses	138
c) Description of specific environmental features and infrastructure on the site.	140
10. Environmental and current land use map	141
11. Impacts and risks identified including the nature, significance, consequence, extent, duration and probability of the impacts, including the degree to which these impacts	142
12. Methodology used in determining and ranking the nature, significance, consequences, extent, duration and probability of potential environmental impacts and risks;	145
Criteria to Consider when Determining Severity of impacts	145
13. 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	149
Potential impact on heritage resources	149
Potential impacts on communities, individuals, or competing land uses in close proximity	150
Potential impact of vegetation	150
14. The possible mitigation measures that could be applied and the level of risk	150

Responsibility	151
Schedule	151
Community relations	151
Schedule	152
Layout Plan	152
Schedule	152
Workers	152
Schedule	152
Protection of flora and fauna	152
Schedule	152
Road safety and access	152
Schedule	153
Water	153
Schedule	153
Office / Camp Site	153
Vehicles and Fuel	153
Toilet facilities	154
Waste management	155
Effluents	155
Access to drill sites	155
Drilling	156
Heritage Resources	156
Windblown sand and dust	156
Noise	156
Rehabilitation	157
Environmental Related Emergencies and Remediation	157
15. Motivation where no alternative sites were considered	159
16. Statement motivating the alternative development location within the overall site ..	159
17. 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	159
18. Assessment of each identified potentially significant impact and risk	161
<i>The supporting impact assessment conducted by the EAP must be attached as an appendix, marked Appendix 3</i>	163
19. Summary of specialist reports	163
20. Environmental impact statement	166
(i) Summary of the key findings of the environmental impact assessment;	166
(ii) Final Site Map	168

21.	Proposed impact management objectives and the impact management outcomes for inclusion in the EMPr;	169
22.	Aspects for inclusion as conditions of Authorisation.....	171
23.	Description of any assumptions, uncertainties and gaps in knowledge.	171
24.	Reasoned opinion as to whether the proposed activity should or should not be authorised.....	171
	I. Reasons why the activity should be authorized or not.	171
	II. Conditions that must be included in the authorisation.....	172
25.	Period for which the Environmental Authorisation is required.....	172
26.	Undertaking	172
27.	Financial Provision.....	173
	a. Explain how the aforesaid amount was derived.	173
	b. Confirm that this amount can be provided for from operating expenditure.	174
28.	Specific Information required by the competent Authority	174
29.	Other matters required in terms of sections 24(4)(a) and (b) of the Act.....	175
	PART B.....	177
	ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT	177
	1) Draft environmental management programme.....	177
	a) Details of the EAP,.....	177
	b) Description of the Aspects of the Activity	177
	c) Composite Map.....	177
	d) Description of Impact management objectives including management statements. 177	
	I. Determination of closure objectives.	177
	Environmental Legislation	177
	National Environmental Management Act, Act 107 of 1998 (NEMA).....	178
	I. <i>Volumes and rate of water use required for the operation.</i>	179
	II. <i>Has a water use licence has been applied for</i>	179
	III. Impacts to be mitigated in their respective phases.....	180
	IV Impact Management Outcomes	181
	V Impact Management Actions.....	184
30.	Financial Provision.....	187
	2) UNDERTAKING	196

LIST OF FIGURES

Figure 1: Dunolly 111163 GU	15
Figure 2: Canewdon Lodge 11370 GU.....	16
Figure 3: Lot 197 Empangeni 12418	17
Figure 4: Lot 221 Empangeni 10379	18
Figure 5: Wilton Park Farm 11484 GU	19

Figure 6: Locality Map of the PR Application Area.	21
Figure 7: Generalized Locality Map of the Area.....	22
Figure 8: Site Plan of the Area.	23
Figure 9: Proposed borehole map.....	28
Figure 10: Coalfields Map that shows where the application area falls under.	35
Figure 11: Image showing general waste collection.	36
Figure 12: Dust suppression on rigs.....	38
Figure 13: Expansion Barriers.....	38
Figure 14: Newspaper placement on Zululand Observer.....	46
Figure 15: Topography of the area.....	97
Figure 16: Annual Temperature around the project area.....	99
Figure 17: Average monthly rainfall.....	100
Figure 18: Environmental Governance Cycle for Continued improvements in Environmental	102
Figure 19: Location of Ambient Air Quality Monitoring Stations (highlighted Yellow Pins)	103
Figure 20: KwaZulu Natal coal resource (Source: TIKZN Coal Resources edit1.2.1.doc).....	106
Figure 21: Stratigraphic nomenclature of the Karoo Supergroup in the Somkhele Coalfield (from Snowden, 2009). It should be noted that certain of the unit names are informal and have not yet been accepted by the South African Committee for Stratigraphy (SACS).	107
Figure 22: Stratigraphic column of the geology of the Emakwezini Formation within the Somkele Coalfield. Fm. = Formation.....	108
Figure 23: Geological map of the proposed area.	110
Figure 24: Soil study of the area of interest.	111
Figure 25: The sub-catchment of the project area inclusive.....	113
Figure 26: Water Management Area (Source: NWRM Map Book 4 Pongola-Mtamvuna,2015)	114
Figure 27: Environmental Sensitive Area Wetlands.	115
Figure 28: Cross section of a fractured aquifer.....	118
Figure 29: Aquifer classification of South Africa.....	119
Figure 30: Wetland and Buffer zones.....	120
Figure 31: Map of South Africa's 9 Biomes (Project area marked X).....	121
Figure 32: Vegetation type within the project area.....	122
Figure 33: Environmental Sensitive Areas.....	125
Figure 34: archaeological heritage sensitivity.....	130
Figure 35: Agricultural Sensitivity of the area.....	131
Figure 36: Population Growth.....	132
Figure 37: Population Distribution.....	133
Figure 38: Child Headed Households.	134
Figure 39: Household Numbers and Sizes.....	135
Figure 40: Total Employment within KwaZulu Natal & Percentage Employment per Ward	137
Figure 41: Land use Map of the area of interest.....	138
Figure 42: Farming type found within application area.....	139
Figure 43: Environmental and current land use maps.....	141

Photos

Photo 1: access roads to reach boundaries of the project as well as entrances into the portions using unnamed gravel roads.....	104
Photo 2: Railway line intersecting project area.....	105
Photo 3: Soil type observed on site.....	112
Photo 4: Okula River.....	115
Photo 5: Mandozi River.....	116

Photo 6: High Sensitivity of the project area (Okula River and Mandozi River respectively).	127
Photo 7: horses observed t ranch within the proposed prospecting area	128
Photo 8: Land usage images	139
Photo 9: Infrastructures on and around the site.	140

Tables

Table 1: Junior Consultant Contact Details	12
Table 2: EAP Manager and Project Reviewer	12
Table 3: Locality of the prospecting right application area	14
Table 4: 21-digit surveyor general code for each farm portion	14
Table 5: Listed and specified activities	24
Table 6: Policy and Legislatives	30
Table 7: Performance of Economic Sectors in uMhlathuze	34
Table 8: High and Low temperature	98
Table 9: Ambient Air Quality Monitoring Stations Co-ordinates	103
Table 10: Shows pollutants measured in each monitoring station.	103
Table 11: Shows meteorological station and parameters that are monitored	103
Table 12: Average coal qualities for Somkhele Area 1 at a 1.6 RD float density (after Grobler, 2006).	109
Table 13: Aquifer characterization	119
Table 14: Biodiversity Significance	123
Table 15: Population Numbers	131
Table 16: Population Growth Scenarios from 2016 to 2030	134
Table 17: Population Age Structure	135
Table 18: Comparative Education Levels	136
Table 19: Land Potential in uMhlathuze	139
Table 20: Summary of positive and negative impacts	168
Table 21: Rehabilitation plan	188
Table 22: Application Quantum Calculation	192

Appendix

Appendix 1: DMR letters	197
Appendix 2: Maps for Raycom Resources Project	201
Appendix 4: Stakeholder's Engagement.	205
Appendix 5: Site Inspection, Site Notice Plugging and Access routes.	269
Appendix 6: Basic Specialist Studies and Screening Reports	275
Appendix 7: Company Profile	276

Disclaimer

The opinions expressed in this Report have been based on the information sourced by Singo consulting through desktop studies, closer existing mine (Richards Bay Quarry, Mpisi Coal) and the local knowledge of land occupiers/ landowners. Opinions presented in this report apply to the site conditions and features as they existed at the time of Singo Consulting's investigations, and those reasonably foreseeable. These opinions do not necessarily apply to conditions and features that may arise after the date of this Report, about which Singo Consulting had no prior knowledge nor had the opportunity to evaluate.



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).



Project applicant:	Raycom Resources Pty Ltd		
Registration no (if any):	2017/055355/07		
Trading name (if any):	Raycom Resources		
Responsible Person, (e.g. Director, CEO, etc):	Mrs Hazel Madondo		
Contact person:	Mr Lesego Mathebula		
Physical address:	Ground Floor, Building D, Hertford Office Park, 90 Bekker Road, Vorna Valley, Midrand, Gauteng, 1686		
Postal address:	Ground Floor, Building D, Hertford Office Park, 90 Bekker Road, Vorna Valley, Midrand, Gauteng, 1686		
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FILE REFERENCE NUMBER SAMRAD: KZN 30/5/1/1/2/ 11025 PR.

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4	Not applicable	I&AP's	All Stakeholders

r

Report Sign-Off			
Name	Designation	Signature	Date
Kenneth Singo	Principal Environmental Scientist, EAPASA (2019/825)		2021/07/07
Nokuthula Nkosi			2021/07/07

1. 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.

2. 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 the 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;
 - (bb) may cause irreplaceable loss of resources; and
 - (cc) 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.

PART A

SCOPE OF ASSESSMENT AND BASIC ASSESSMENT REPORT

1. Contact Person and correspondence address

(i) Details of the EAP

Table 1: Junior Consultant Contact Details

Name of the Practitioner	Nokuthula Nkosi
Tel No.	013 692 0041
Cell No.	081 386 8589
Fax No.	086 5144 103
Email	nokuthula@singoconsulting.co.za

Table 2: EAP Manager and Project Reviewer

Name of the Practitioner	Ndinannyi Kenneth Singo
Tel No.	013 692 0041
Cell No.	078 272 7839
Fax No.	086 5144 103
Email	kenneth@singoconsulting.co.za

(ii) Expertise of the EAP.

2. Summary of the EAP's Company past experience.

Company Profile attached- refer to

Appendix 6.

a) Location of the overall Activity.

Table 3: Locality of the prospecting right application area.

	Farm Name	Subdivision
	Dunolly No. 11 113-GU	Portion 1 and Re
	Canewdon Lodge No. 11 370-GU	Portions 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and Re
	Lot 221 Empangeni No. 10 379-GU	Portions 1, 2, 6, 8, 9, 10, 11, 12, 13, 14 and Re
	Lot 197 Empangeni No. 12 418-GU	Portions 3, 6, 7, and 8
	Waterstone Township-GU	Multiple Erven
	Wilton Park No. 11 484-GU	Portions 2, 3, 8, the Re of portion 5, and Re
Application area (Ha)	Approximately 1 682.58 ha	
Magisterial district:	Magisterial District of Empangeni	
Distance and direction from nearest town	Approximately 14km north-west of Richards Bay, roughly 1km south of Ntabinamasi and macekane and approximately 1 km north-east of Dondolo and east of Matshana.	
21-digit Surveyor General Code for each farm portion	Refer to Table 4 below.	

Table 4: 21-digit surveyor general code for each farm portion

SG Codes	N0GU00000001148400003	N0GU00000001148400000	N0GU06810000000100000
	N0GU00000001137000008	N0GU00000001037900012	N0GU06810000000100000
	N0GU00000001137000009	N0GU00000001784500000	N0GU06810000105200000
	N0GU00000001137000009	N0GU00000001241800003	N0GU06810000105100000
	N0GU00000001137000008	N0GU00000001111300001	N0GU06810000000100009
	N0GU00000001137000010	N0GU00000001037900002	N0GU06810000000100003
	N0GU00000001137000010	N0GU00000001037900001	N0GU06810000000100002
	N0GU00000001137000000	N0GU00000001037900000	N0GU06810000000100013
	N0GU00000001111300000	N0GU00000001037900000	N0GU06810000000100015
	N0GU00000001037900014	N0GU00000001137000006	N0GU06810000000100024
	N0GU00000001037900013	N0GU00000001137000002	N0GU06810000000100000
	N0GU00000001037900011	N0GU00000001137000003	N0GU06810000000200000
	N0GU00000001037900010	N0GU00000001137000004	N0GU06810000000300000
	N0GU00000001148400002	N0GU00000001137000011	N0GU06810000000400000
	N0GU00000001148400005	N0GU00000001137000000	N0GU06810000029500000
	N0GU00000001037900009	N0GU00000001241800006	
	N0GU00000001037900008	N0GU00000001241800008	
	N0GU00000001037900007	N0GU00000001241800007	
	N0GU00000001037900006		

Farm List

Date Requested 2021/04/22 15:16
Deeds Office PIETERMARITZBURG
Registration Division GU
Farm Name -
Farm Number 11113
Remaining Extent NOT SELECTED

PORTION LIST				
Portion	Owner	Title Deed	Registration Date	Purchase Price (R)
0	SUPER TURF AND LANDSCAPING PROPRIETARY LIMITED	T38731/2017	2017/12/05	R2000000.00
1	SUPER TURF AND LANDSCAPING PROPRIETARY LIMITED	T27111/2016	2016/08/15	R4500000.00
2	TRANSNET LTD	T58711/1999	1999/12/03	R0.00
4	SUPER TURF AND LANDSCAPING PROPRIETARY LIMITED	T27111/2016	2016/08/15	R4500000.00

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Figure 1: Dunolly 111163 GU

Farm List

Date Requested 2021/04/22 15:26
Deeds Office PIETERMARITZBURG
Registration Division GU
Farm Name -
Farm Number 11370
Remaining Extent NOT SELECTED

PORTION LIST				
Portion	Owner	Title Deed	Registration Date	Purchase Price (R)
0	ALMINA PTY LTD	T27818/1981	1981/11/17	R0.00
1	TRANSNET LTD	T56364/1989	1999/12/02	R0.00
2	ISHWARLALL RAMLUTCHMAN TRUST-TRUSTEES	T11091/2014	2014/04/04	R2500000.00
3	ISHWARLALL RAMLUTCHMAN TRUST-TRUSTEES	T11091/2014	2014/04/04	R2500000.00
4	ISHWARLALL RAMLUTCHMAN TRUST-TRUSTEES	T11091/2014	2014/04/04	R2500000.00
5	ISHWARLALL RAMLUTCHMAN TRUST-TRUSTEES	T11091/2014	2014/04/04	R2500000.00
6	ISHWARLALL RAMLUTCHMAN TRUST-TRUSTEES	T11091/2014	2014/04/04	R2500000.00
7	ISHWARLALL RAMLUTCHMAN TRUST-TRUSTEES	T11091/2014	2014/04/04	R2500000.00
8	ISHWARLALL RAMLUTCHMAN TRUST-TRUSTEES	T11091/2014	2014/04/04	R2500000.00
9	ISHWARLALL RAMLUTCHMAN TRUST-TRUSTEES	T11091/2014	2014/04/04	R2500000.00
10	ISHWARLALL RAMLUTCHMAN TRUST-TRUSTEES	T11091/2014	2014/04/04	R2500000.00
11	ROBERTS ALAN DAVID	T33575/2015	2015/10/26	R1050000.00

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Figure 2: Canewdon Lodge 11370 GU

Farm List

Date Requested 2021/07/06 12:07
Deeds Office PIETERMARITZBURG
Registration Division GU
Farm Name LOT 197 EMPANGENI
Farm Number 12418
Remaining Extent NOT SELECTED

PORTION LIST				
Portion	Owner	Title Deed	Registration Date	Purchase Price (R)
3	UMHLATHUZE MUNICIPALITY	T35006/2015	2015/11/04	R0.00
4	TRANSNET LTD	T11856/1997	1997/04/30	R0.00
5	TRANSNET LTD	T11856/1997	1997/04/30	R0.00
6	TICOR SOUTH AFRICA PTY LTD	T14391/2001	2001/03/30	R2762337.00
7	NAS PROPERTY TRUST	T23687/2018	2018/08/02	R3500000.00
8	FOURIE GEOFFREY FRANCOIS	T36440/2006	2006/08/03	R156613.00

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Figure 3: Lot 197 Empangeni 12418

Farm List

Date Requested 2021/06/30 08:19
Deeds Office PIETERMARITZBURG
Registration Division GU
Farm Name LOT 221 EMPANGENI
Farm Number 10379
Remaining Extent NOT SELECTED

PORTION LIST				
Portion	Owner	Title Deed	Registration Date	Purchase Price (R)
0	TEDDER FARM PTY LTD	T1911/1970	1970/02/11	R0.00
1	COSMIC GOLD TRADING 364 CC	T61202/2007	2007/12/07	R4750000.00
2	TRANSNET LTD	T396/1931	1931/02/05	R0.00
3	R S A	T12208/1988	1988/05/20	R0.00
6	P E G INV CC	T35178/2006	2006/07/28	R2250000.00
7	TRANSNET LTD	T12485/1997	1997/05/07	R0.00
8	DEKKER BROTHERS PROPRIETARY LIMITED	T3000/2015	2015/02/10	R115757.00
9	UMHLATHUZE MUNICIPALITY	T49846/2000	2000/10/12	R83800.00
10	UMHLATHUZE MUNICIPALITY	T49846/2000	2000/10/12	R83800.00
11	UMHLATHUZE MUNICIPALITY	T49846/2000	2000/10/12	R83800.00
12	OSHO SA CEMENT PROPRIETARY LIMITED	T2180/2014	2014/01/29	R6726837.00
13	JABELU TRUST	T16851/2021	2021/06/09	R950000.00

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Figure 4: Lot 221 Empangeni 10379

Farm List

Date Requested 2021/06/30 08:30
Deeds Office PIETERMARITZBURG
Registration Division GU
Farm Name WILTON PARK FARM
Farm Number 11484
Remaining Extent NOT SELECTED

PORTION LIST				
Portion	Owner	Title Deed	Registration Date	Purchase Price (R)
0	ZULULAND NGUNI PROPRIETARY LIMITED	T5954/2021	2021/03/09	R3000000.00
1	TRANSNET LTD	T524/1931	1931/02/16	R0.00
2	UMHLATHUZE MUNICIPALITY	T8492/1960	1960/10/25	R0.00
4	TRANSNET LTD	T12849/1997	1997/05/13	R0.00
5	SOUTH AFRICAN SUGAR ASSOC	T3465/2001	2001/01/29	R2504000.00
8	UMHLATHUZE MUNICIPALITY	T5272/2018	2018/03/07	R410400.00

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Figure 5: Wilton Park Farm 11484 GU

2. Locality map

(show nearest town, scale not smaller than 1:250000).

The project area is located on the borders of the Empangeni town and is surrounded by villages namely Dondolo, Matshana, Ntabinamasi and Macekane. It is approximately 14km north-west of Richards Bay, roughly 1km south of Ntabinamasi and Macekane and approximately 1 km north-east of Dondolo and east of Matshana. The project is located near the Okula River on the northern boundaries and has other smaller rivers such as Mkumbane River and Mandozi River running through the project area. Though there are water courses and water bodies within the project area and in close proximity to the project area, the project is not intending to utilize water for drilling method but instead an air flush method will be used. In addition, buffer zones will be put in place so that dilling does not occur within the no go zones. . The project area is in the middle of the towns mentioned above which all fall under the uMhlathuze Local Municipality and the R34 from the Empangeni town intersects the two sections of the prospecting right application area. The project area may also e access using the R34 gravel road from Ntabinamasi as well as other unpaved roads that run within the farm and the sugar cane fields (refer to Figure 6). The area is characterized by a flat to gentle undulating topography whilst the farms re used for different land uses to be discussed later in this report.

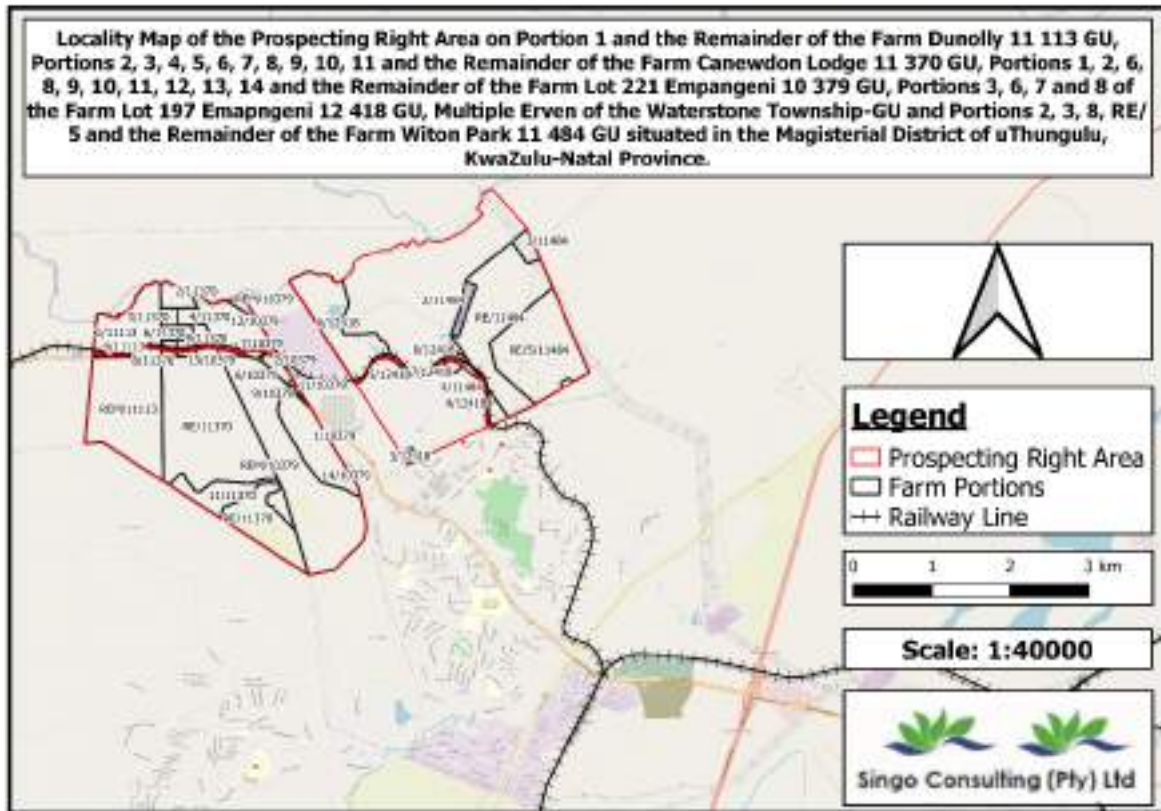


Figure 6: Locality Map of the PR Application Area.

The City of uMhlatuze (KZ 282) is situated on the north-east coast of the province of KwaZulu-Natal, about 180 kilometers north-east of Durban. The uMhlatuze land area covers 123 359ha and incorporates Richards Bay, Empangeni, eSikheleni, Ngwelezane, eNseleni, Felixton, Vulindlela, Bhucanana and Heatonville as well as the rural areas under Traditional Councils namely, Dube, Mkhwanazi, Khoza (Bhejane), Zungu (Madlebe), Somopho (Mthembu), Obuka (Biyela) and Obizo (Cebekhulu). The population is estimated at 410 456 as per Community Survey 2016, although in terms of Census 2011 the total population was estimated at 334 459. The number of households increased from 86 609 in 2011 to 110503 as per Community Survey 2016. The municipality borders a coastline that spans approximately 45 kilometers. The N2 highway traverses the uMhlatuze Municipality in a north-east direction towards the Swaziland border and south-west towards Durban. It effectively forms a division between Empangeni and Richards Bay. The R34 Provincial Main Road passes through Empangeni towards Melmoth. (Mhlatuze, 2019-2022)



Figure 7: Generalized Locality Map of the Area.

3. 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.

Phase 1: Non-Invasive Prospecting:- Desktop Study - Analysis of Existing Data GIS & analytical desktop studies Surveys

Phase 2: Non-Invasive Prospecting:- Multi-Spectral and Aerial Surveys

Phase 3: Invasive Prospecting:- Reconnaissance Borehole drilling, Sampling and Analysis

Phase 4: Invasive Prospecting: - Resource drilling, Sampling and Analysis, Resource Estimation and Pre-Feasibility Study

Phase 5- Feasibility Studies and Mining Right Application

Since exploration is temporary in nature no permanent structures will be constructed, negotiations and agreements may be made with the farm owners to use any existing infrastructure like access roads and other things like workshops. No accommodation will be provided on site.

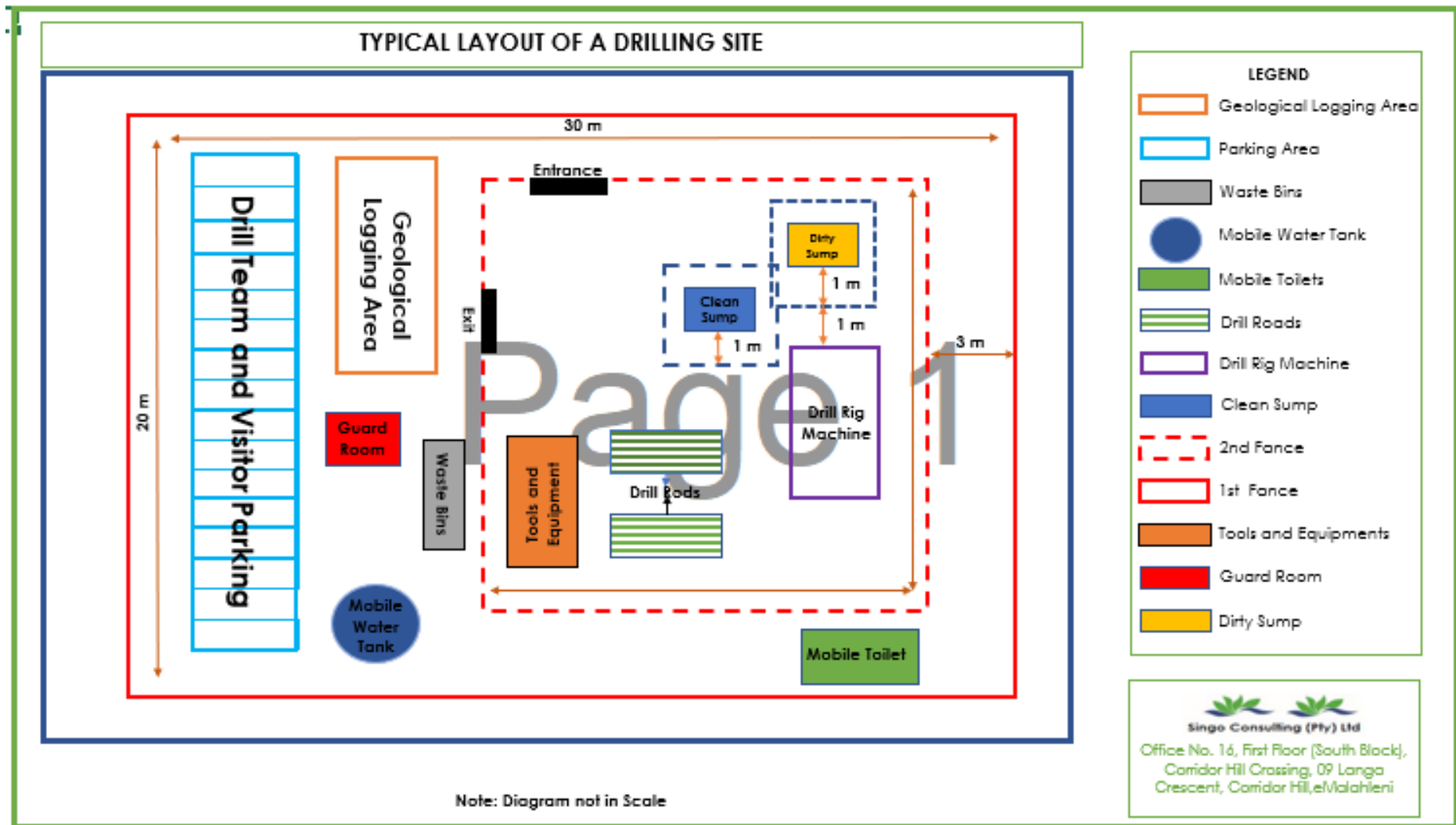


Figure 8: Site Plan of the Area.

(i) Listed and specified activities

Table 5: Listed and specified activities

NAME OF ACTIVITY (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining, - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	Aerial extent of the Activity Ha or m²	LISTED ACTIVITY (Mark with an X where applicable or affected).	APPLICABLE LISTING NOTICE (GNR 327, GNR 325 or GNR 324)	WASTE MANAGEMENT AUTHORISATION (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an X)
Prospecting Area	1682.58ha	X	GNR 327 Listing Notice 1, Activity 20.	Not required
Vegetation clearing	0.9 ha		Not Listed	
Site camp	600 m ²		Not Listed	
Drilling	0.9 ha		Not Listed	
Equipment storage	50 m ²		Not Listed	
Site offices	40 m ²		Not Listed	
Ablution facilities	30 m ²		Not Listed	
Temporary road creations	300m ²		GNR 327, Listing Notice 1 Activity 56.	
Sample storage	40 m ²		Not Listed	

Drilling method	Diamond core drilling (Air Flush Method)
Number of boreholes	15
Depth of boreholes	110 m
Duration of drilling	A borehole takes about 2 days to complete; 15 boreholes will take about 20 days.
Demarcated working area	600 m ² (600 m ² per drilling site based on a 30 m x 20 m grid) which is equals to 0.06 ha per site
Total area to be disturbed	6000 m ² (600 m ² x 15 boreholes = 9 000 m ² (0,9 Ha)) 20*30=600m²*15 boreholes=9000m² 9000m²÷10000=0.9ha

(ii) 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 exploration project will be conducted in a phased approach for ease of funding and implementation. This project will be conducted in phases, as part of the development. The initial phase will be a literature survey and desktop study, during this phase available data sets from Council of Geosciences (CGS), mining companies, reports, geological maps and satellite imagery will be collected and reviewed. The aim of the review is to better understand the project area as a project (geologically, financially, understand previous and current mining activities and study the communities in and around the project area).

Phase 1: Non-Invasive Prospecting:- Desktop Study - Analysis of Existing Data GIS & analytical desktop studies Surveys

Phase 2: Non-Invasive Prospecting:- Multi-Spectral and Aerial Surveys

Phase 3: Invasive Prospecting:- Reconnaissance Borehole drilling, Sampling and Analysis

Phase 4: Invasive Prospecting: - Resource drilling, Sampling and Analysis, Resource Estimation and Pre-Feasibility Study

Phase 5- Feasibility Studies and Mining Right Application

Phase 1 – Desktop Study - Analysis of Existing Data GIS & analytical desktop studies Surveys

The information that has been produced for these phases has been sourced from the produced Prospecting Work Programme (PWP).

The exploration records of all previous work in the area will be re-examined, and the following studies will be carried out:

- Literature review
- Detailed aerial photograph and satellite image interpretation.
- Regional airborne geophysics with main Emphasis on magnetic and gravity
- Regional soil geochemistry interpretation
- Geological mapping will also be carried out.

These records will need to be captured into a GIS format for geological modelling and exploration scheduling analysis.

This work will form an initial desktop and surface fieldwork study to be continued during the period that the prospecting permit application is being assessed and, presumably, approved. A period of 6 months is estimated for this. The following is considered:

Data Availability

There is a lot of exploration work that has been done in the area surrounding the project area in the past and currently, this area is known to have good quality and thick coal measures, although the area has not been exploited to its full potential in terms of mining.

The CGS has a good drillhole and geology data set of the area. Some of this data is available and can be made available upon request. There are also a lot of studies that were systematic conducted to achieve academic purposes in the area. Most of these studies are very informative as they contain both structural and geology data of the area. Mining companies with interest within the area also have a huge dataset that can be very useful for targeting and understanding geological setting of the area.

Geological maps, reports, these papers and other technical data relevant to the area were gathered and reviewed as part of the literature survey for the exploration project, as well as lists of previous title holders, existing well logs, seam analyses and production histories. Explorers should also maintain an on-going familiarity with research and development in coal geology and exploration technology, as well as in coal.

Historical and/or current exploration and/or mining

Most of the good ground around the project area is taken by mining and/or exploration companies which have and are currently undertaking extensive exploration campaigns within the area, both major and junior mining companies can be found within the coalfield. Petmin's Somkele Mine stands out as the main coal mining operation within the coalfield.

There are great prospects for mining within the area, as coal resources have not been fully exploited in terms of mining, some mining companies and exploration companies with interest in the area have projects at various stages of mining and exploration, some of which lie in close proximity to the project area. During consultation with the locals of Ntabinamasi, it was stated that there was an observation of coal on the side of the mountain near Ntambanana. This information also aids in coal seam continuity projections for the project area relative to known projects within the area wherein which coal resources have been determined.

Phase 2 – Aerial and Ground Geophysics, Multi-Spectral AND Aerial Surveys

Once targets have been generated in the first phase there will be a need to follow up on these targets. Aerial and ground geophysics supported by Multi Spectral and aerial surveys to sharpen the identified potential areas to determine the sidewall properties, profiles and average grades and to do drill hole targeting. It is anticipated that phase will take approximately 6 months to complete.

Majority of the project area, as per the geology map, is underlain by the upper Karoo Supergroup strata which includes rocks of the coal bearing strata horizons of the Emakwezini Formation and Letaba Formation with the project area being feasible in terms of coal occurrence.

Phase 3 –Drilling and Reconnaissance Resource Generation

In the event that the present application is approved and areas with possible targets for the minerals applied for, this identified prospective target will require further subsurface investigation.

Drilling (diamond) of the prospective areas will commence to establish presence of mineralization. Geological borehole logging, down the hole logging and sampling will also be carried out.

The project will make use of the Air Flush Drilling method. Air Flush Drilling makes use of compressed air which drives the drill., Air then drives dirt out which intern allows drilling to carry on. Once water is found, drillers will have to watch the water flow levels, the amount of water in the borehole and the boreholes water recharge rate.

Whole rock analysis of all the potential intersections will be carried out. For budgeting purposes, it is assumed that every meter of the initial holes will be analysed.

It is anticipated that initially 15 boreholes will be drilled. Drill holes could vary in depth from 25m to 110m, with an average depth in the order of 750 meters. The total amount of drilling to be budgeted for at this stage is 110 meters.

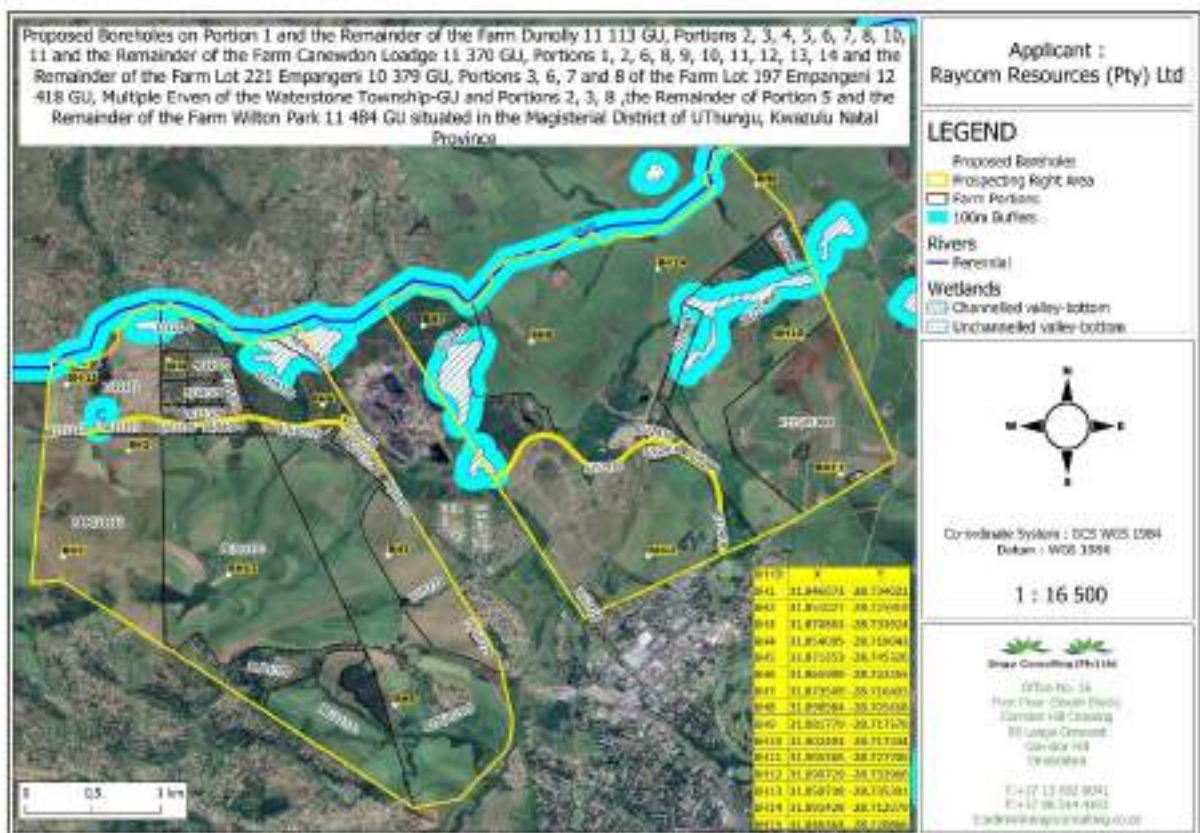


Figure 9: Proposed borehole map

Phase 4 – - Resource drilling, Sampling and Analysis, Resource Estimation and Prefeasibility Study

Dependent on the results of Phase 3 drilling, a further 4 drill-holes totalling between 100-1000 meters may be required. The geological information generated will be used to model and estimate resource. The resources will at least be expected to be in the Indicated Category according to the appropriate reporting standard (SAMREC, JORC, or NI43 -101).

Diamond drilling for coal exploration programs will involve drilling of boreholes until the rocks of the Dwyka Group are intersected to ensure that all coal seams are intercepted. Borehole spacing will be at 1000m for phase 3, 500m for phase 4 and between 300-250m for phase 5 in order to achieve inferred, indicated and measured resource categories respectively. Core drilling is the only satisfactory means of obtaining representative samples, either of coal seams for thickness and quality assessment, therefore HQ size core will be drilled, core samples will be logged, sampled and taken to a laboratory for analysis. Down-hole geophysical surveying will be undertaken immediately after the drilling of a borehole is complete, a geophysics probe will be sent down the borehole and it will generate a digital section of the borehole with a geophysical log compiled, these will give useful information on thickness and depth of coal and other beds for use in structural and stratigraphic studies. At the end of each drilling phase the drilling site will be rehabilitated in order to get the immediate and surrounding environment to its original condition.

Phase 5- Feasibility Study

The final phase of the prospecting programme would involve preparation of a Feasibility study. This would include:

- Resource drilling
- Geological Modelling
- Initial conceptual Mine Planning.
- Planning the infrastructure requirements
- Environmental management planning
- Financial modelling
- Market analysis

- Analysis of transport logistics to markets
- Assessment of personal and training requirements
- Assessment of socio-economic factors

A feasibility study is multidisciplinary in nature and requires the highest levels of expertise available. Such studies are both costly and time consuming.

All listed activities will be done or performance within the radius of 30*20=600m² as shown in Figure 8.

Diamond Drilling (a scout drilling campaign, phase 3, to be followed by a phase 4 and 5 of drilling that will be conducted as an infill campaign) to establish the following:

- Seam thickness
- Coal density
- Seam continuity
- Geological Structures
- Seam and end of hole depth
- Strip (overburden to coal) ratio
- Geotechnical characteristics of coal, roof and floor strata
- Groundwater

4. Policy and Legislative Context

Table 6: Policy and Legislatives

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.
(a description of the policy and legislative context within which the development is proposed including an identification of all legislation, policies, plans, guidelines, spatial tools, municipal		(E.g. In terms of the National Water Act a Water Use License has/ has not been applied for)

development planning frameworks and instruments that are applicable to this activity and are to be considered in the assessment process		
Water Use Licence (WUL)	Not applicable	No water use license is required for this Application. Any water required will be obtained from a legal source within the area or brought in via mobile water tanker. The method proposed is air flush method which does not require the usage of water. Appropriate dust extractions / suppression equipment will be a condition imposed on the drill contractor for their drill rigs.
National Environmental Management Act, 1998	This Basic Assessment Report & EMPr	An Application for Environmental Authorisation was acknowledged by the DMRE on 18 January 2021 with reference: (KZN/30/5/1/1/2/(11025)PR. The application was accepted by the DMRE on 09 March 2021. The Basic Assessment Report in terms of the EIA regulations (which is 90 days from application) must be submitted on 24 June 2021. An extension was applied and granted thus the final bar submission is 13 April 2021.
National Heritage Resources Act, 1999	Management measures	Should archaeological artefacts or skeletal material be revealed in the area during development activities, such activities should be halted, and SAHRA notified in order for an investigation and evaluation of the finding(s) to take place
National Environmental Management: Waste Act, Act 59 of 2008	Management measures environmental awareness plan	The generation of potential waste will be minimised through ensuring Employees of the drilling contractor are subjected to the appropriate Environmental awareness campaign before drilling. All waste generated

(NEMWA)NEM: WA (as amended)		during the drilling activities will be disposed of in a responsible manner.
Mineral and Petroleum Resources Development Act, 2002	Application for Prospecting in terms of Section 16	A Prospecting Right Application has been submitted to the DMRE by the Applicant. The application was accepted by the DMR on the 09 March 2021 (KZN/30/5/1/1/2/ (11025) PR
Integrated Development Plan (IDP)		The IDP of uMhlatuze local municipality identified ending Poverty in all its forms everywhere as one of their primary objectives. If the prospecting is successful, this mine may contribute to job creation resulting to eradication of poverty.
Strategic Development Framework (SDF)		The area is designated for agricultural and residential usage. Upon processing with mining right/permit application. A SPLUMA application should run parallel to the Mining right/Mining Permit application for rezoning.
UMhlatuze Local Municipality Bylaws	This Basic Assessment Report & EMPr	Various policies have been adopted by the Council, namely, a broad Environmental Policy that is aligned to the principles of Section 28 NEMA: Duty of Care to the Environment; Policy on EIA"s, and the clearing of vegetation within Public Open Spaces. The focus on energy management and green buildings presents further opportunities for development of a policy framework for the City. Applicable bylaws must be enforced: o Beach o Cemetery o Electricity Supply o Environmental Health o Flammable Liquids o Funeral Undertakers o Keeping of animals o Nuisances

		<ul style="list-style-type: none"> o Outdoor Advertising o Possession and Discharge of Fireworks
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5. 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).

Mining in South Africa directly contributed to the establishment of the Johannesburg Stock Exchange in the late 19th century, and today it still accounts for a large portion of its market capitalization. From this, it is clear that mining in South Africa has shaped the country politically, culturally, and economically and that the South African mining sector has provided the critical mass for a number of industries that are either suppliers to the mining industry, or users of its products. These include, but are not limited to, energy, financial services, water and engineering services, and specialist seismic geological and metallurgical services. The proposed coal prospecting right will not only contribute directly to the South African economy but will also contribute to the development and growth of other industries supporting the mining sector.

The proposed prospecting right in search for Coal, Pseudocoal and Torbanite/Oil Shale resources that is prior to mining project, will contribute to favourable economic impacts on both a local, regional and national scale. Success will result in numerous job creation and skills development opportunities and provide an economic injection in the region. If the project will not proceed; the additional economic activity, skills development and available jobs would not be created, and the coal reserves would remain unutilized.

According to the Spatial Development framework for UMhlatuze Local Municipality it was demonstrated that the main primary sectors that boost their economy and create more jobs is in Agriculture and Mining. See attached table.

Table 7: Performance of Economic Sectors in uMhlathuze

	2005	2010	2015
Primary sector	14.4	13.3	15.4
Agriculture	3.3	3.7	3.9
Mining	11.1	9.7	11.5
Secondary sector	38.3	37.4	36.2
Manufacturing	32.5	31.3	30.5
Electricity	2.1	1.8	1.6
Construction	3.8	4.2	4
Tertiary sector	47.3	49.2	48.4
Trade	9.4	9.7	9.7
Transport	11.7	12.6	12.9
Finance	10.5	11.3	14.8
Community services	15.6	15.6	28.2

Source: IHS Markit, 2018

The need for this project to be permitted to take place in the area it that it will help with job creation on areas like Macekane, Ntabinamasi, Dondolo, Matshana, Empangeni and Hillview community and ensure the youth is occupied to eliminate countless number of deaths through gunshot as a result of not having anything to keep busy especially within the rural town. The process will give hope to the youth that job opportunities can be created and upon the Mining Right processes, poverty can be decreased significantly within the uMhlathuze Municipal Area. According to the IDP of uMhlathuze it was mentioned that "Mining of mineral resources is an important economic activity in the region, however there is only one mine in the study area while mining rights have been assigned to the south of the area". The statement showcases the need for prospecting right to be permitted prior mining processes to ensure that resources are attainable and Raycom Resources (Pty) Ltd can add to the statistics of job creation for the area.

KwaZulu-Natal's coal is situated within five coalfields, namely from west to east, Klip River, Utrecht, Vryheid, Nongoma and Somkele. The project is located in the western part of the Somkele Coalfield and its underlain by rocks of the Karoo Supergroup. Majority of the project area is underlain by the upper Karoo Supergroup strata which

includes the Letaba Formation and Emakwezini Formation. Investigations will confirm if the project area is feasible in terms of coal occurrence.

Geographically the Somkhele Coalfield covers a 5-8 km wide zone that extends from the Swaziland border in the north, to Dukaneni in the south. The southern sector, which hosts the Somkhele Mine, is bounded on the eastern side by a line extending north-south through the towns of Somkele, Emakwezeni and Heatonville. The western boundary is formed by the eastern boundary of the Nongoma Coalfield (Fig. 6) and is faulted.

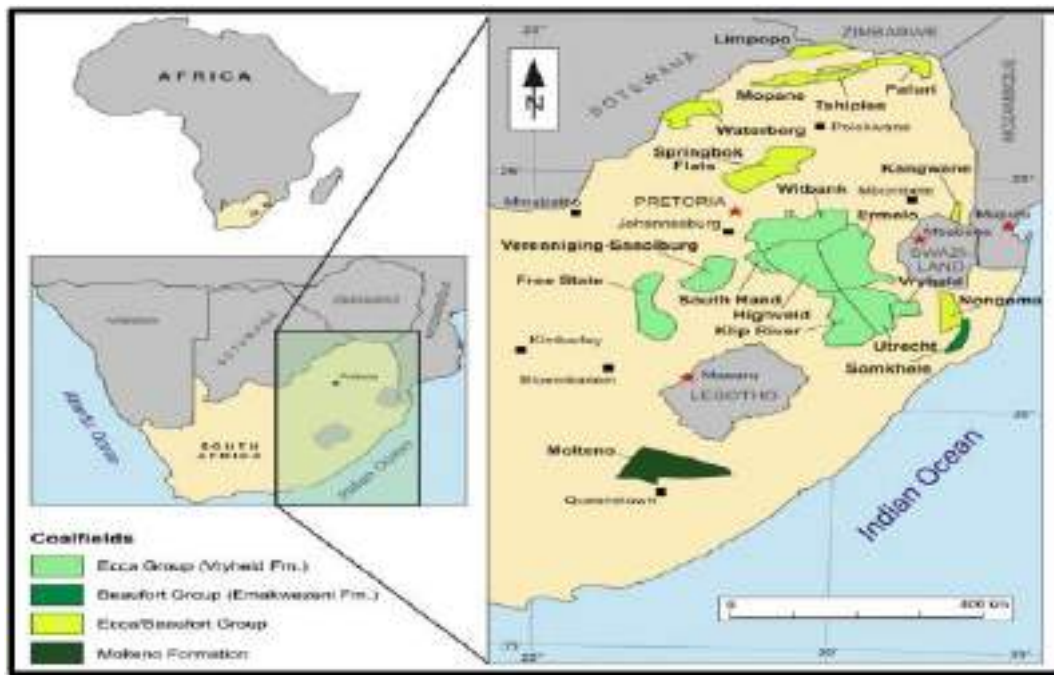


Figure 10: Coalfields Map that shows where the application area falls under.

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

Geophysical surveys, and drilling are the only major methods used in exploring for deposits of this type and also for resource definition and evaluation. The technology to be used cannot be replaced by any other methods thus these are the preferred activities.

There is no site or layout alternative as the property provides the ideal geological formation for the presence of the minerals applied for. The positioning of the boreholes is determined by the expected location of the mineral reserve.

There are no technology alternatives considered and the proposed site was identified as the preferred alternative due to the following reasons:

- The site offers the mineral sought after as identified from the PWP with information from CGS
- Mining areas in close proximity (e.g. Richards Bay Quarry, Tronox KZN Sands),
- The prospecting area boundaries can be reached using the R34 from Empangeni Town or from Ntabinamasi Town. There are gravel roads used by the farming operations that can be used as access roads within the project area after entering from the R34 national road. Where a borehole is positioned on an area that does not have an access road, it will need to be created.
- No residual waste as a result of the prospecting activity will be produced that needs to be treated on site. The Prospecting method that will be adopted is air flush method which only results to dust components. The dust components will be managed by a sought to take place. The general waste produced on-site will be contained in sealed refuse bins to be transported to the local municipal landfill site. See Figure 11 below.
- Maintenance and servicing of the equipment will be done at an off-site workshop and the amount of hazardous waste to be produced at the site will be minimal and will mainly be as a result of accidental oil or diesel spillages.
- Contaminated soil will be removed to the depth of the spillage and contained in sealed bins until removed from site by a hazardous waste handling contractor to be disposed of at a registered hazardous waste handling site and more information will be discussed after the granting of the prospecting right.



Figure 11: Image showing general waste collection.

7. Full description of the process followed to reach the proposed preferred alternatives within the site.

NB!! – This section is about the determination of the specific site layout and the location of infrastructure and activities on site, having taken into consideration the issues raised by interested and affected parties, and the consideration of alternatives to the initially proposed site layout.

Details of the development footprint alternatives have been considered. With reference to the site plan provided in Figure 8 and the location of the individual activities on site, provide details of the alternatives considered with respect to:

The property on which or location where it is proposed to undertake the activity is portion 1 and the Remainder of the farm Dunolly No. 11 113-GU, Portions 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and the Remainder of the farm Canewdon Lodge No. 11 370-GU, Portions 1, 2, 6, 8, 9, 10, 11, 12, 13, 14 and the Remainder of the farm Lot 221 Empangeni No. 10 379-GU, Portions 3, 6, 7, and 8 of the farm Lot 197 Empangeni No. 12 418-GU, Multiple Erven of the Waterstone Township-GU and Portions 2, 3, 8, the Remainder of portion 5, and the Remainder of farm Wilton Park No. 11 484-GU were the only property(ies) alternative considered.

The area is utilized for agricultural activities and having prospecting activities in the area will not impact much of the already existing actions. The location of infrastructures has been designed to ensure that no damage is caused on agricultural activities that has to be going on during the drilling process. The area of drilling will be demarcated with visible tapes. The drilling process will make use of air flush method which does not produce enormous dust particles and the drill rig will have dust collector and also the dust that manages to escape will be trapped by having a nest where the demarcation and boundary with visible tapes will be positioned. The method is as follows:

DRY DRILLING DUST SUPPRESSION

Dry drilling dust control systems can be up to 99% efficient if properly maintained (Cecala et al., 2012). Dust particles escape from the drill collar with the aid of the bailing air and are contained within the drill deck and shroud. The dust collector system establishes a negative pressure within the shroud and draws the dust particles into the dust collector system. dust collector system is composed of the fan exhaust, which creates the negative pressure, and the filters, which separate the dust from the air. Most filtering systems are self-cleaning. They use regular pulses of compressed air to remove the dust from the filter surface and allow the dust to drop through the bottom of the collector and onto the ground. An additional cyclone may also be installed between the drill deck and the filters. See figure below.

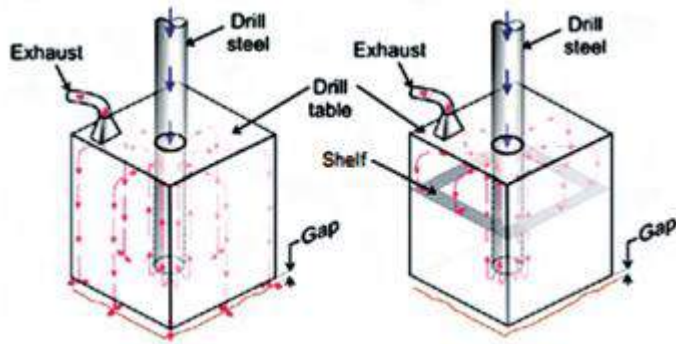


Figure 12: Dust suppression on rigs



Figure 13: Expansion Barriers

8. Details of the development footprint alternatives considered.

With reference to the site plan provided as Appendix 4 and the location of the individual activities on site, provide details of the alternatives considered with respect to:

- a. the property on which or location where it is proposed to undertake the activity;
- b. the type of activity to be undertaken;
- c. the design or layout of the activity;
- d. the technology to be used in the activity;
- e. the operational aspects of the activity; and
- f. the option of not implementing the activity.

a) the property on which or location where it is proposed to undertake the activity

The planned surface work including drilling is important to be done on rocks that have potential to host the minerals to be explored. Somkhele Coalfield holds the sub-surface of the area. The location is of interest also due to the already existing mine on the same geology area called Richards Bay Quarry that is mining a hard rock and coal is exposed as a result of the mining method. Locals during consultation have also stated seeing the sought after mineral on the sides of the mountains when heading towards the Thula Thula Reserve area. The farms under application fall within this prospective coal bearing area which is part of the Somkhele Coalfield.

Properties are used for farming, horse-riding and farm housing. A railway line intersects the project area as seen in Figure 7 and is located on the borders of Okula River approximately 100m away. Adequate infrastructure to undertake the prospecting should the project be successful will not be necessary as there are farmhouses within the project area and towns surrounding the project area. It is important to note that until such time that the non-invasive activities have been completed the exact location of the drill sites are shown on the drill plan. However, should there be any changes, they will be shared with the landowners, all affected departments and stakeholders. The following buffers will be applied to the final site selection:

- No drill site will be positioned within 50m of a structure
- No drill site will be positioned within 100m of a water course or wetland
- Where possible existing access roads will be utilised to access the drill sites.

b) the type of activity to be undertaken

The exploration records of all previous work in the area will be re-examined, and the following studies will be carried out:

- Literature review
- Detailed aerial photograph and satellite image interpretation.
- Regional airborne geophysics with main Emphasis on magnetic and gravity
- Regional soil geochemistry interpretation
- Geological mapping will also be carried out.

These records will need to be captured into a GIS format for geological modelling and exploration scheduling analysis. Should mineralisation be encountered then further drilling will be undertaken. A suitable level of feasibility study (technical and economic evaluation) will also be undertaken if the results of the phase justify it.

- A total of 15 drill holes are proposed for the site;
- It will be possible to drill 30-40m per day, covering about 1-3 days to drill one hole;
- All holes will be drilled by means of Air flush diamond drill rig. The drilled holes will be co-ordinated by GPS and logged onto a modelling system. It will be mapped onto an ortho-photo (1:10 000) scale.
- The holes will be drilled to an average of 700m and broadness (diameter) may vary between 60 mm - 75.7 mm. This will allow establishment of the thickness of the overburden;
- Holes will not be drilled closer than 100m from any stream/river and not within 100m from a natural wetland. Identified heritage sites will be marked and avoided.
- Overburden will be recorded and the holes filled back simultaneously.
- Drilling will take place one hole at a time. The drill site will be cleared of obstructions and debris and then drilled. Rehabilitation will occur concurrently with drilling were capping of the holes will be done.

b) the design or layout of the activity

Since exploration is temporary in nature no permanent structures will be constructed, Negotiations and agreements will be made with the farm owners to use any existing infrastructure like access roads.

- Portable ablution facilities will be used, and a lining will be placed to avoid any contamination to the ground and ground water.
- Activities will be limited to the drilling of 16 boreholes to be determined by the geological formations found during prospecting.
- It is planned to use one rig for all drill holes. Rehabilitation will be closely controlled, and supervision will be focussed.
- No changes to the layout is considered but with the geophysical survey information, the holes can be orientated to match the shape of the good quality of resource.

c) the technology to be used in the activity

Geophysical surveys and drilling are the only major methods used in exploring for deposits of this type and also for resource definition and evaluation. The technology to be used cannot be replaced by any other methods thus these are the preferred activities. Geophysical surveys also provide an added advantage of being done quickly and so execution can commence early. The safety factor of utilising geophysical surveys is also apparent, as there is less time to keep people exposed to moving machinery.

d) the operational aspects of the activity

Due to the nature of the prospecting activities, no permanent services in terms of water supply, electricity, or sewerage facilities are required. The prospecting will commence with non-invasive prospecting for 6 – 8 months which will entail Multi-Spectral and Aerial Surveys providing digital raster data of the area of interest delineating the Paleo channel on a map. Thereafter a further literature survey will be conducted for 2 - 4 months, combining the results from phase 1 with interpreted geological report. Only then will the applicant commence with invasive prospecting

with the drilling and sampling programme continuing for approximately 12 – 24 months, which will culminate in a report on the drill results. This will again be followed with further non-Invasive prospecting through GIS & analytical desktop studies for 6 – 12 months, producing Pre-Feasibility reports, resource statements and 3D mapping. Once this is complete a decision will be made whether further drilling or sampling is required in specific areas of interest, prior to finalising the Feasibility Report.

The applicant shall ensure that this Environmental Management programme report is provided to the Project Manager and any other person or organisation who may work on the site.

e) the option of not implementing the activity

The option of not approving the activities will result in a significant loss to valuable information regarding the minerals statuses present on these properties. The proposed activities have exceptionally low significance since these are short term activities. The probability of occurrence of an impact was determined and most of these activities can be controlled and impacts can be reduced or avoided. The probability was also used based on looking at other prospecting activities of similar nature. Generally prospecting activities have low impact on the environment. The planned activities negative impacts can be controlled and avoided or minimised therefore the layout does not require revision. Changes in plan will be discussed with the farmers and approvals will be signed. In addition to this, should economical reserves be present and the applicant does not have the opportunity to prospect, the opportunity to utilize the said reserves for future phases will be lost. Loss of potential Employment opportunities for Empangeni and surrounding towns.

9. Details of the Public Participation Process Followed

Describe the process undertaken to consult interested and affected parties including public meetings and one on one consultation. NB the affected parties must be specifically consulted regardless of whether or not they attended public meetings. (Information to be provided to affected parties must include sufficient detail of the intended operation to enable them to assess what impact the activities will have on them or on the use of their land.

Regulatory Framework

This section of the report provides an overview of the tasks undertaken for the public participation process to date. The public participation process was undertaken in

accordance with the requirements of the EIA Regulations, 2014 (as amended, 07 April 2017) particularly Chapter 6 of this Regulation. It provides a guideline on how public participation processes must be conducted; it further stipulates timeframes in which these processes must be conducted in accordance with.

➤ **Landowner Identification and Notification**

A Landowner was identified through a search conducted online (WinDeed Search) that accesses the Title Deeds office database. A site assessment resulted in acquiring the contacts of landowners we could not find via WinDeed. Notification letters and site notices were left at the gates of the landowners we did not find on the property whilst other landowners were present on site and shared some information regarding the area as well as the contacts of the other landowners. No comments have been received yet.

➤ **Adjacent Landowners**

Some adjacent landowners were visited during the site visit. Unfortunately the property owners were not in the country to be consulted but a notification letter was left and the contacts of the site manager taken to further consult and request the information of the owner.

➤ **Lawful Occupiers**

The lawful occupiers found on the site received the notification letters but referred us to the landowner for further consultation.

➤ **Community**

The project area is surrounded by towns namely Empangeni, Hillview, Dondolo, Ntabinamasi, Matshana and Macekane. Upon site inspection between 03/07/21 – 05/07/21, consultation with the locals, a Traditional Court Member Ms. Mthembu and Ward 31 Cllr Mr. Ntombela, the application area has approximately 4 ward councillors and 3 chiefs namely Chief Zungu, Chief Mthembu and Chief Cebekhulu. It was communicated by the Cllr that it is ideal that public meeting be held for this application. Due to the fact that we are currently under alert level 4 of Covid-19 which prohibits gatherings, a date will only be communicated once the Presidents has eased restrictions. Once restrictions are eased meetings will be arranged with the local chiefs, councillors and the community.

The Public Participation Process (PPP) mainly comprises the communications and discussions with Interested and Affected Parties (I&APs) and is of utmost importance in any assessment process. The PPP, inter alia, involves the following:

Notification of Interested & Affected Parties (I&AP's)

➤ **□ Notification of Stakeholders**

✓ Personnel representing Government departments and Non-governmental organizations were consulted using Background Information Document (BID), Consultation letters, and in some instances, consultations were conducted telephonically. The following departments and organization formed part of the consultation process;

- Department of Agriculture, Forestry and Fisheries
- Department of Rural Development and Land Reform
- Department of Water and Sanitation
- Department of Environmental Affairs
- Department of Tourism
- Transnet
- Eskom
- uMhlathuze and King Cetshwayo Municipalities
- Sanral
- Department of Labour
- Richards Bay Quarry (nearby operating mine), etc
- AMAFA
- KZN Wildlife

➤ **Notification of other I&AP**

These I&APs details were collected using information in the public domain. Using this information these identified I&APs were contacted via email and through site assessment visits with a description of the prospecting operation and a way to contact for further information and how to be part of the process.

➤ **Newspaper advertisement**

A newspaper notice was placed in the classifieds section of *Zululand Observer* on the 30th of April 2021 about the prospecting right application (see proof of placement in Figure 14). Notices about the application were placed around the site of the prospecting right application area inviting interested persons to register as I&APs. See figure 11 below.

ESTATE NOTICES

IN THE ESTATE OF THE LATE THOMAS CAROL... (Notice of estate for Thomas Carol)

ESTATE NOTICES

IN THE ESTATE OF THE LATE THOMAS CAROL... (Notice of estate for Thomas Carol)

ESTATE NOTICES

IN THE ESTATE OF THE LATE THOMAS CAROL... (Notice of estate for Thomas Carol)

ESTATE NOTICES

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ESTATE NOTICES

IN THE ESTATE OF THE LATE THOMAS CAROL... (Notice of estate for Thomas Carol)

IZIMOTO KANYI MULTIPURPOSE EMPLOYERS & BUYER'S CLUB. ADAMO-RICHARDS BAY VELDENWAL SPORTS COMPLEX. IZIMOTO ZAMabhanghe Repo.

NOTICE OF PUBLIC PARTICIPATION FOR PROSPECTING RIGHT AND ENVIRONMENTAL AUTHORIZATION APPLICATION.

RESTRICTION TO COMMENT. Participation as Interested & Affected Party. As part of the EIA process, there is currently the public participation process for the proposed mining project.

ENVIRONMENTAL, WASTE MANAGEMENT PRACTITIONER AND AFFILIATED FIRMS. Range Consulting (Pty) Ltd.

LANDOWNERS. The proposed prospecting project clearly affects various mineral rights.

VACANCIES. RICHARDS BAY COAL TERMINAL. Proprietary Limited. Recruitment Specialist.

Real men don't rape. AUCIONEERS. IZIMOTO KANYI MULTIPURPOSE EMPLOYERS & BUYER'S CLUB.

Figure 14: Newspaper placement on Zululand Observer

Site notices were located close to the farm boundary, close to the farm entrance, close to the highly frequented roads as well as in prominent places round the surrounding towns.





➤ **Site notice placement**

To inform surrounding communities and adjacent landowners of the proposed development, site notices were erected on site and at visible locations around the site on the between 02nd July 2021 and the 4th of July 2021. The site notices also clearly stipulated where and how the DBAR and EMPr can be accessed. See appendix 5 for more.

➤ **Public community meeting**

A community meeting is yet to be held. A notification will be sent after the 14-day lockdown update from the President. A meeting must be held with the three chiefs and the respective councillors as per procedure before meeting with the community at large. A meeting is also needed for the Empangeni community, though they are not under any chieftaincy but under the uMhlathuze Local Municipality.

One-on one meeting may be held with the landowners under strict Covid restrictions. Alternatively, visual meeting may be arranged via MS Teams or Zoom etc.

➤ **Draft Reports Sharing**

The Draft reports will be shared from 13/07/2021 with all registered interested and/or affected parties. The stakeholders have 30days to make comments on the draft BAR & EMPr.

Soft copy reports were shared to minimize the spread of covid-19 through hard copies. It is only those who requested hard copies who were sent hard copies to review and share their comments.

We anticipate that more comments will come after they have reviewed the document.

a. Summary of issues raised by I&As

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

<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
AFFECTED PARTIES				
Landowners/s				
Dunolly 11113 GU (portion 1 and remaining extent)				
<p>Suoer Turf and Landscaping</p> <p>Vinesh Naidoo</p> <p>Cell: 082 448 0329</p>	<p>X</p>		<p>The site was visited on 03/07/2021 and 04/07/2021. The landowner could not be reached telephonically thus consultation took place with the staff working on the premises. A</p>	

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 consulted	Date Comments Received	Issues Raised	EAPs response to issues as mandated by the applicant	Section and paragraph reference in this report where the issues and or response were incorporated
			landowner notification was left to be shared with Mr. Naidoo so he can contact us.	
Canewdon Lodge 11370 GU				
Almina (Pty) Ltd (remaining extent) Mr. Rusty 082 927 7642			The site was visited on 04/07/2021 where we acquired the contact details of the landowner from one of the workers. the number received	


<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
<p>Ishwarlall Ramlutchman Trust (portion 2-10)</p> <p>Cell: 083 357 8747</p> <p>Email: ramlutchmanishwar@gmail.com</p>	<p>04/07/21 (phone call)</p> <p>09/07/21 (sms)</p>	<p>Notices seen on gate and requested information. Stated that email address will be shared via WhatsApp.</p> <p>Email: ramlutchmanishwar@gmail.com</p>	<p>A brief description of the project was explained. A request for email address was made so that more information may be shared.</p> <p>An sms was sent to the landowner to remind to remind them to share their email address .</p>	
<p>Roberts Allan David</p> <p>Portion 11</p>	<p>04/07/21 (face to face)</p>	<p>Unappreciative of the fact that consultants are driving on the premises without his knowledge. the process and</p>	<p>It was explained that the number the consultants had was not going through. A brief description of the</p>	

<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
<p>Cell: 082 932 9262</p> <p>Email: canewdon1@gmail.com</p>		<p>assisted in directing consultants to the entrance of Almina (Pty) Ltd where we should ask for Vusi who would assist with the contacts of Mr. Rusty.</p>	<p>project was given and it was explained that the applicant will not step onto the premises to prospect until granted authorisation by the DMRE and that landowners play a critical role in decision making thus they need to voice out their concerns regarding the application. Should he be in support he should state his T&Cs if opposing he should state as well.</p>	

<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
	<p>09/07/21</p> <p>(phone call)</p>	<p>Send a WhatsApp or email with your number and I will revert back with what I find.</p>	<p>On 9/7/21 the landowner was called again to explain that the number shared by one of the workers is not going through</p>	
<p>Lot 221 Empangeni 10379 GU</p>				
<p>Cosmic Gold Trading 364 CC</p> <p>Portion 1</p> <p>JT Botha</p> <p>Cell: 068 877 4875</p> <p>Tel.: 035 753 1939</p>		<p>No issues raised yet.</p>	<p>The contacts details of the landowner acquired from WinDeed are not going through.</p> <p>The site was visited on 04/07/21 and a site notice was left at the gate along with a landowner</p>	


<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
			<p>notification letter to prompt the landowner to contact us.</p>	
<p>Transnet</p> <p>Portion 2</p> <p>Livhuwani Ndou</p> <p>Email: livhuwani.ndou@transnet.net</p> <p>Ray Teichmann</p>	<p>X</p>	<p>No issues raised yet.</p>	<p>Notification email was sent to the landowner on 30/04/21.</p>	

<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
<p>Email: ray.teichmann@transnet.net</p>				
<p>PEG Inv CC</p> <p>Portion 6</p> <p>Lynn Hathorn</p> <p>Cell: 083 779 1112/0711412257</p> <p>Email: arcadia1@mweb.co.za</p>	<p>X</p> <p>09/07/21 (phone call)</p>	<p>Currently out of SA. Telecommunication may only resume on 12/07/21 when the landowner is back in SA. Emails may be sent in the meantime.</p>	<p>Landowner was called on the number 083 779 1112 acquired from WinDeed but it was not going through. The landowner called back using number 071 141 2257.</p>	

<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
<p>Dekker Brothers (PJ Tabak VerWerkers)</p> <p>Portion 8</p>			<p>No contact details were found through WinDeed.</p> <p>A site visit was done on 04/07/2021 where a site notice was left of the site.</p>	
<p>uMhlatuze Local Municipality</p> 	<p>X</p>	<p>No issues raised yet.</p>	<p>A consultation email was sent on 30/04/2021. No response has been received yet.</p>	

<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
<p>Portion 9 – 11</p> <p>Mhlongo MG</p> <p>Email: mhlongomg@umhlathuze.gov.za</p> <p>Email: talk2us@umhlathuze.gov.za</p>				
<p>Osho SA Cement (CEMZA KZN)</p> <p>Portion 12</p> <p>Mr. Bonani</p>	<p>X</p> <p>09/07/2021 (phone call)</p>	<p>Ms. Joshna (078 994 7996) is the contact aquired from WinDeed. She explained that she is the attorney for Osho SA Cement. CEMZA KZN was once under Osho group. Osho is no</p>	<p>Mr. Bonani was called but the call did not go through.</p>	


<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
081 501 0239		longer the landowner and I handled the transfer. That land is now owned by CEMZA KZN and the person you can contact is Bonani who can be reached on 081 501 0239.		
<p>Jabelu Trust</p> <p>Portion 13</p>		No issues raised yet.	The site was visited on 04/07/21 and a site notice was left to prompt the landowner to contact us as the contact details are not on WinDeed.	See Appendix 4
Tedder Farm (Pty) Ltd		No issues raised yet.	The site was visited on 04/07/21 and a site notice was left to prompt the	See Appendix 4


<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
<p>Remaining extent</p>			<p>landowner to contact us as the contact details are not on WinDeed.</p>	
<p>Lot 197 Empangeni 12418 GU</p>				
<p>uMhlathuze Local Municipality</p> 	<p>X</p>	<p>No issues raised yet.</p>	<p>A consultation email was sent on 30/04/2021. No response has been received yet.</p>	<p>See Appendix 3</p>

<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
<p>Portion 3</p> <p>Mhlongo MG</p> <p>Email: mhlongomg@umhlathuze.gov.za</p> <p>Email: talk2us@umhlathuze.gov.za</p>				
<p>TICOR SOUTH AFRICA PTY LTD (Tronox KZN Sands)</p> <p>Portion 6</p> <p>Sisiwe Mthethwa</p>	<p>X</p> <p>09/07/21 (phone call)</p>	<p>The email address you have is no longer working as I am no longer with KZN Wildlife. The current email address is sisiwe.mthethwa@tronox.com. Drop me an email and we will</p>	<p>The landowner was contacted to verify landownership as well and the email address for the sharing of documents. The email address has been</p>	

<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
<p>Cell: 079 862 2828</p> <p>Email: sisiwe.mthethwa@tronox.com</p>		<p>talk later as I am currently in a meeting.</p>	<p>updated from dlaminis@kznwildlife.com to sisiwe.mthethwa@tronox.com</p>	
<p>NAS PROPERTY TRUST</p>	<p>X</p>	<p>No issues raised yet.</p>	<p>A site visit was conducted on 03/07/21. A landowner notification letter was left by the door of the property to prompt the landowner to contact the consultants.</p>	
<p>Geoffrey Francois Fourie</p> <p>Email: gfranfour@gmail.com</p>	<p>X</p>	<p>03/07/21 (face to face)</p> <p>Comments will be shared. We would not mind a borehole for water.</p>	<p>A brief description of the project was shared along with a landowner notification email. It was explained that the</p>	


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 consulted		Date Comments Received	Issues Raised	EAPs response to issues as mandated by the applicant	Section and paragraph reference in this report where the issues and or response were incorporated
				landowner share their support or opposition to the proposed project. should they agree, the T&Cs should be stated.	
Wilton Park Farm 11484 GU					
uMhlathuze Local Municipality	X		No issues raised yet.	A consultation email was sent on 30/04/2021. No response has been received yet.	See Appendix 3


<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
 <p>Portion 2, 3 and 8</p> <p>Mhlongo MG</p> <p>Email: mhlongomg@umhlathuze.gov.za</p>				

<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
<p>Email: talk2us@umhlathuze.gov.za</p>				
 <p>Remainder of portion 5</p> <p>Sumita Ramgareb (Resource Manager)</p>	<p>X 09/07/21 (phone call)</p>	<p>Shared email that can be used (sasri.reception@sugar.org.za)</p>	<p>A brief description was given on a request for an email address for document sharing was made.</p>	

<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
<p>Email: sasri.reception@sugar.org.za</p> <p>Christopher Ndleleni (Assistant Farm Manager)</p>				
<p>ZULULAND NGUNI PROPRIETARY LIMITED</p> <p>Remaining extent</p> <p>Andre Slabbert Engelbrecht</p> <p>Cell: 082 565 9783</p> <p>Tel.: 035 789 1253</p>	<p>X</p> <p>09/07/21 (WhatsApp)</p>	<p>Currently in Ivory Coast, West Africa. Email address: asengelbrecht@hotmail.com</p>	<p>The landowner was briefed about it and it was explained Jack who resides on the farm that has purchased a portion of the remaining extent but it will not appear on WinDeed as yet. A request for the landowners email address was made as the WinDeed</p>	

<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
<p>Email: asengelbrecht@hotmail.com</p>			<p>results only recoded a number.</p>	
<p>Adjacent Landowners/Occupiers</p>				
<p>Security 4 U Mr. Chacha (head of security) Cell: 082 893 4311</p>	<p>X 03/07/21 (face to face)</p>	<p>The landowner is UVS and security 4 U are renting from UVS.</p> <p>The sugar mills will be closing around 2030 and low cost housing il be established in the area. Eskom is bringing a hydropump and the</p>	<p>A brief presentation of the proposed project was explained.</p>	

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 consulted	Date Comments Received	Issues Raised	EAPs response to issues as mandated by the applicant	Section and paragraph reference in this report where the issues and or response were incorporated
		application has been approved. more information may come from the top management.		
Municipalities				
Local Municipality				
	X	No issues raised.	Consultation email was sent with BID (30/04/2021)	Appendix 4,

<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
<p>Email: talk2us@umhlathuze.gov.za</p>				
<p>District Municipality</p>				
 <p>KING CETSHWAYO DISTRICT MUNICIPALITY</p> <p>Municipal Manager</p>	<p>X</p>	<p>No issues raised yet.</p>	<p>Consultation email was sent with BID (30/04/2021)</p>	<p>Appendix 4,</p>

<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
<p>Mrs M Ndlovu Tel: +27 35 799 2501 Email: rheedersc@kingcetshwayo.gov.za</p> <p>Head of communications Mr Vusumuzi Mahaye Tel: +27 35 799 2600 Cell: +27 79 498 3935 Email: Mahayev@kingcetshwayo.gov.za</p> <p>Environmental Manager Londeka Ngcobo</p>				

<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
<p>Tel: +27 35 766 2684</p> <p>Email: ngcobol@kingcetshwayo.gov.za</p>				
<p>Councillor</p>				
<p>Ward 23</p> <p>Cllr Mdaka</p> <p>Cell: 072 270 8708</p> <p>Email: mandlamdaka72@gmail.com</p>	<p>X 09/07/21 (telephone)</p>	<p>Email address was shared.</p>	<p>A brief description of the project was given and a request of an email address for information sharing was made.</p>	


<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>	
<p>Ward 24 Cllr Dlamini Cell: 071 831 2206</p>	<p>X</p>	<p>09/07/21 (telephone)</p>	<p>It was explained that he is the cllr and Dondolo and parts of Empangeni. He referred us to Cllr o ward 23 as that is the councillor of the remaining parts of the Empangeni area that are near the project area.</p> <p>The cllr does not have an email address but had requested sharing of information be done via WhatsApp.</p>	<p>A brief description of the project was given and a request of an email address for information sharing was made.</p>	
<p>Ward 31 Cllr Ntombela Cell: 072 524 5575 / 082 437 0406</p>	<p>X</p>	<p>04/07/21 (face to face)</p>	<p>I am the ward cllr for Ntabinamasi, Macekane and parts of Matshana. This is information the public need to</p>	<p>A presentation of the proposed project was made and a request for the contact details of the</p>	


<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
<p>Email: siphoffntombela@gmail.com</p>		<p>hear but unfortunately due to adjusted level 4 restrictions. As soon as we are able to hold meeting I will announce to the community and you will be able to present.</p> <p>This application touches on three tribal areas and I am under Chief Mthembu and Chief Zungu. The head Nduna that you can consult is Nduna /Manyoni under Chief Mthembu (082 643 0725). He can give a wa forward regarding reaching the chiefs</p>	<p>stakeholders/leaders of the community was made.</p>	

<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
		<p>and also lead you regarding the other head Ndunas for Chief Zungu and Chief Cebekhulu.</p>		
<p>Ward 32 Cllr Ndlovu Cell: 076 781 4751 / 064 546 2589</p>			<p>The cllr was called but he phone goes unanswered and the second number was closed (09/07/2021)</p>	
<p>Traditional Authority</p>				


<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>	
<p>Mthembu Traditional Council Nduna Manyoni Cell: 082 643 0725</p>	<p>X</p>	<p>09/07/21 (phone call)</p>	<p>At the moment due to restrictions the traditional council does not hold meetings. It would be best to meet with the iNkosi so that you may present to him. You must notify me well ahead of time so that I can organise for you to see the iNkosi so you can present.</p> <p>We are elderly so I don't have an email address nor whatsapp. We will communicate via phone calls.</p>	<p>A brief description of the project was explained along with the fact that the communities are not within the boundaries of the project area but they are in close proximity to the project. A request to explain procedures so that the Chief can be notified was made and a request for an email address was made. A request for a nduna for the Zungu</p>	


<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
		<p>Nduna Zungu can be reached on 073 205 3338.</p>	<p>Traditional Council was made.</p>	
<p>Zungu Traditional Council Nduna Zungu Cell: 073 205 3338</p>	<p>X 09/07/21 (phone call)</p>	<p>The council meets every Tuesday but due to adjusted level 4 it might not be possible for any meeting to be made with the iNkosi at the moment until restrictions ease. Thereafter you are welcome to come and see the iNkosi.</p>	<p>A brief description of the project was explained along with the fact that the communities are not within the boundaries of the project area but they are in close proximity to the project. A request to explain procedures so that the Chief can be notified was made and a request for an email address was made</p>	

<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
<p>Organs of state (Responsible for infrastructure that may be affected Roads Department, Eskom, Telkom, DWA</p>				
 <p>PMB Resource</p> <p>Mr Thembalakhe Sibozana Tel: +27 33 392 7700 Fax: +27 33 342 8783 Email: PMBResourceCentre@daff.gov.za ThembalakheS@daff.gov.za</p>	<p>X</p>	<p>No Issues raised yet.</p>	<p>Consultation email was sent with BID (30/04/2021).</p>	<p>Appendix 4,</p>

<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
 <p>water & sanitation Department: Water and Sanitation REPUBLIC OF SOUTH AFRICA</p> <p>Chief Director: KwaZulu-Natal Mr Ashley Starkey Email: StarkeyA@dws.gov.za</p> <p>Mr Strini Govender Email: govenders2@dws.gov.za</p> <p>Pillay R Email: pillayr@dws.gov.za</p>	<p>X</p> <p>03/05/21 (email)</p> <p>03/05/2021 (email)</p> <p>06/05/2021 (email)</p>	<p>Direct all applications to Acting Deputy Director Mr. Strini Govender (Sub-Directorate: Water Quality Management).</p> <p>Mr Govender can be contacted at govenders2@dws.gov.za or on 082 885 9665 or on 031 336 2759.</p> <p>Consultation email was forwarded to Ms. Sibango.</p>	<p>Email was directed to Mr. Govender as requested.</p> <p>The water bodies surrounding the project area as well as those within</p>	<p>Appendix 4, and see page 116</p>



<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
	<p>30/05/2021 (email)</p>	<p>If the project area is in a regulated area the application is subject to a water use license</p> <p>The Department of Water and Sanitation (DWS) acknowledges receipt of the Background Information Document (BID) for the proposed project. DWS looks forward to receiving and reviewing the reports of subsequent environmental stages.</p>	<p>the project area are classified as no go zones and buffer of 100m from the water course will be applied. In additions, no boreholes will be placed near the water bodies to preserve them.</p>	


<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
		<p>The Applicant should investigate/ assess if there are any water uses (consumptive and non-consumptive) triggered by this development.</p>		
 <p>Nerissa Pillay</p>	<p>X</p>	<p>No issues raised yet.</p>	<p>Consultation email was sent with BID (30/04/2021)</p>	<p>Appendix 4</p>


<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
<p>Email: nerissa.pillay@kznwildlife.com</p> <p>Mrs Dinesree Thambu-Moodley Tel: 033 845 1425 Fax: 033 845 1499 Email: dinesree.thambu@kznwildlife.com</p>				
	<p>X</p>	<p>No issues raised yet.</p>	<p>Consultation email was sent with BID (30/04/2021)</p>	<p>Appendix 4,</p>



<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
<p>Siphosakhe Xulu Tel: +27 35 780 6700 Email: siphosakhe.xulu@kznedtea.gov.za</p> <p>Control Environmental Officer Skhumbuzo Mpungose Tel: +27 35 780 0316 Cell: +27 82 719 9866 Email: skhumbuzo.mpungose@kznedtea.gov.za</p> <p>Environmental Officer Ntokozo Mazibuko</p>				


<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
<p>Tel: +27 35 780 0318 Email: ntokozi.mazibuko@kznedtea.gov.za</p> <p>Coastal Unit Manager Alfred Matsheke Tel: +27 33 264 2815 Cell: +27 82 330 2114 Email: alfred.matsheke@kznedtea.gov.za</p>				


<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
 <p>Tel: 033 355 5500 Email: info@kznworks.gov.za</p>	X	No issues raised yet.	Consultation email was sent with BID (30/04/2021)	Appendix 4,
 <p>Mbongeni Tshabalala Email: Mbongeni.Tshabalala@labour.gov.za</p>	X	No issues raised yet.	Consultation email was sent with BID (30/04/2021)	Appendix 4


<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
 <p>Ms. Zilungile Khanyile Tel: +27 34 212 2127 Email: zilungile.khanyile@kzntransport.gov.za</p>	<p>X</p>	<p>No issues raised.</p>	<p>Consultation email was sent with BID (30/04/2021)</p>	<p>Appendix 4</p>


<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
 <p>Ms Bernadet Pawandiwa Tel: +27 33 394 6543 Email: bernadetp@amafapmb.co.za</p>	<p>X</p>	<p>No issues raised yet.</p>	<p>Consultation email was sent with BID together with request for Amafa form (30/04/2021)</p>	<p>Appendix 4.</p>


<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
 <p>Moshe Dipolelo. Email: D.Moshe@sanbi.org.za</p>	X	No issues raised yet.	Consultation email was sent with BID (30/04/2021)	Appendix 4.
 <p>South African NATIONAL PARKS</p>	X	No issues raised yet.	Consultation email was sent with BID (30/04/2021)	Appendix 4.


<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
<p>Akani Shivambu Tel: +27 13 735 4265 / +27 13 735 4196 Email: Akani.shivambu@sanparks.org</p>				
 <p>Email: wyleaves2@telkom.co.za</p>	<p>X</p>	<p>No issues raised yet.</p>	<p>Consultation email was sent with BID (30/04/2021)</p>	<p>Appendix 4.</p>

<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
 <p>Siyabonga Nsele Cell: +27 84 233 4610 Fax: +27 31 710 5146 Email: Nselesi@eskom.co.za</p> <p>Samantha Naicker Tel: +27 31 710 5183 Cell: +27 72 957 1007 Email: naickesa@eskom.co.za</p>	<p>X</p>	<p>No Issues raised yet.</p>	<p>Consultation email was sent with BID (30/04/2021)</p>	<p>Appendix 4.</p>

<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
<p>Thembisile Sibiyi Email: SibiyiTG@eskom.co.za</p> <p>Lungile Motsisi Tel: +27 11 800 5734 Email: Motsisl@eskom.co.za</p>				
 <p>Email: advocacy@birdlife.org.za</p>	<p>X</p>	<p>No issues raised yet.</p>	<p>Consultation email was sent with BID (30/04/2021)</p>	<p>Appendix 4.</p>

<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
 <p>Nomsa Modise Email: modisen@nra.co.za</p> <p>NRStat@nra.co.za</p>	<p>X</p>	<p>No issues raised yet.</p>	<p>Consultation email was sent with BID (20/11/2020)</p>	<p>Appendix 4.</p>

<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
 <p>Livhuwani Ndou Email: Livhuwani.ndou@transnet.net</p> <p>Ray Teichmann Email: ray.teichmann@transnet.net</p>	<p>X</p>	<p>No issues raised yet.</p>	<p>Consultation email was sent with BID (30/04/2021).</p>	<p>Appendix 4.</p>

<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
 <p>Department of Rural Development and Land Reform (DRDLR)</p> <p>Lynn Boucher Email: Lynn.boucher@drdlr.gov.za</p>	<p>X</p>	<p>No comment yet.</p>	<p>Land Enquiry email was sent.</p>	<p>Appendix 4.</p>
<p>Community</p>	<p>X</p>	<p>No community meeting could be held due to adjusted level 4 of Covid-19 restrictions.</p>		

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 consulted	Date Comments Received	Issues Raised	EAPs response to issues as mandated by the applicant	Section and paragraph reference in this report where the issues and or response were incorporated	
	A meeting will be scheduled for when the restrictions have eased and the information will be communicated with the local councillors in order to notify the community.				
OTHER INTERESTED AND AFFECTED PARTIES					
Traditional Court Happy Mthembu (Traditional Court Member) Cell: 060 560 2946 Email: khuzwayo.happy@gmail.com	X	04/07/21 (face to face)	There are three tribal councils surrounding your project area. I am part of the traditional court hence I also sit with the traditional councils so I am in a position where I can also share information with the council. Meetings are prohibited at the moment but when restrictions	A brief description of the project was explained and contact details were requested. Further communication shall happen via email.	

<p>Interested and Affected Parties</p> <p>List the names of persons consulted in this column, and</p> <p>Mark with an X where those who must be consulted were in fact consulted</p>	<p>Date Comments Received</p>	<p>Issues Raised</p>	<p>EAPs response to issues as mandated by the applicant</p>	<p>Section and paragraph reference in this report where the issues and or response were incorporated</p>
		<p>are eased it will be easier to conduct meetings.</p>		

b. The Environ/mental attributes associated with the alternatives.(The environmental attributed described must include socio-economic, social, heritage, cultural, geographical, physical and biological aspects)

a) Baseline Environment

(i) *Type of environment affected by the proposed activity.*

(its current geographical, physical, biological, socio- economic, and cultural character).

Topography

Topography is the study of the shape and features of land surfaces. The topography of an area could refer to the surface shapes and features themselves, or a description (especially their depiction in maps). Topography is a field of geoscience and planetary science and is concerned with local detail in general, including not only relief but also natural and artificial features, and even local history and culture. The proposed prospecting area to the east of the R34 is situated on fairly flat topology whilst the western side of the project area is situated on a region with gentle to steep slopes topography. This can be observed on the topology map attached below. The flow of water during rainy seasons flows from the area of high elevation to the area of low elevation as it is indicated or displayed by contour lines. Sheet erosion is likely to occur within the proposed project area. Sheet erosion is the uniform removal of soil in thin layers, and it occurs when soil particles are carried evenly over the soil surface by rainwater that does not infiltrate into the ground due to the steepness of the area.

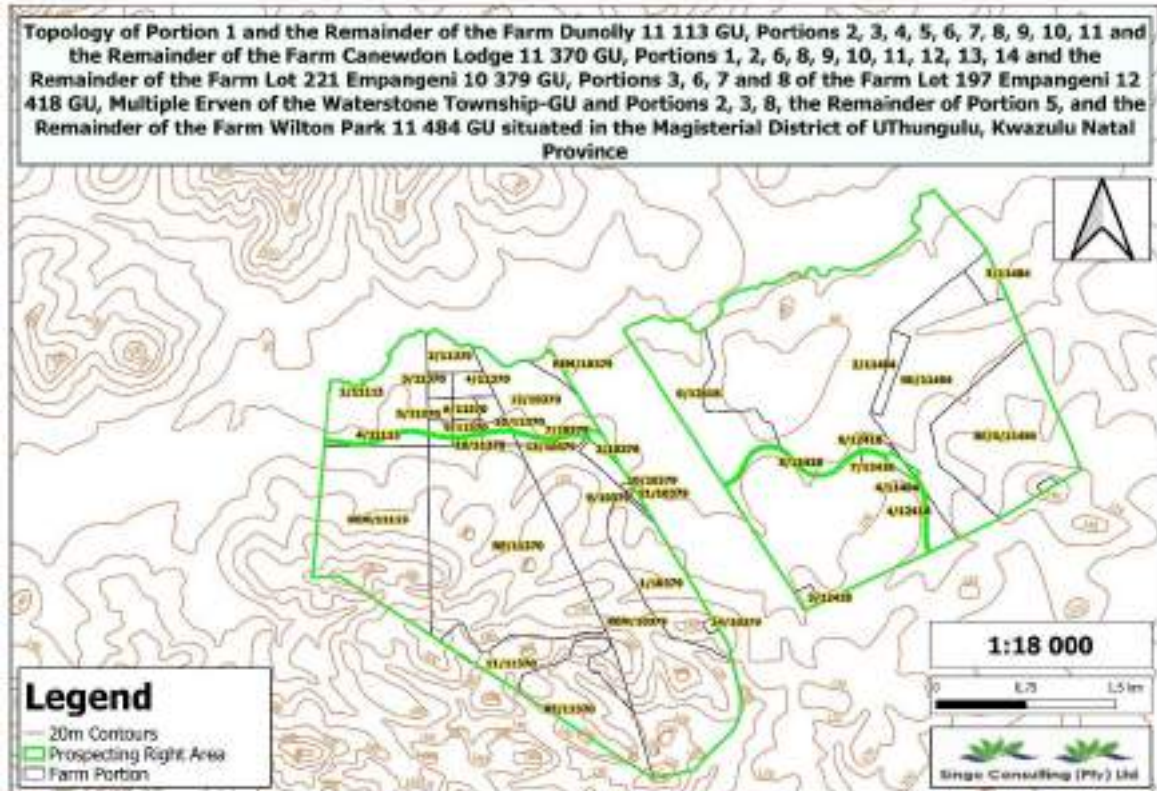


Figure 15: Topography of the area.

Regional and Local Climate

KwaZulu Natal, is bordered by the Indian Ocean to the east and the Drakensberg Mountain escarpment to the west producing a warm, subtropical climate. The climate of KwaZulu Natal is tourist friendly all-year-round. Situated in the Southern Hemisphere the seasons are reversed, this means traveling from a Northern Hemisphere winter to KZN you will arrive in summer and experience warm weather, lush vegetation and a multitude of birds and animals. The proposed project area lies within uMhlatuze which is characterized by a temperate oceanic climate. This climate generally features cool summers and cool but not cold winters, with a relatively narrow annual temperature range and few extremes of temperature.

Summer (November – February) are hot and humid averaging 28°C and experience the majority of the annual rainfall. Although summer is an excellent time to observe wildlife in prime condition, the game is often obscured by tall grass and thick bush which flourishes in the rainy season. Heavy rains and electrical thunderstorms are common.

Autumn (March – May) in KZN are mild as temperatures begin to cool. This is a good time to see migrating birds gathering for their journey north. Winter (June – August)

with average temperatures of 23°C, are warm, dry and clear. There is occasional frost in the interior and snow often falls in the higher reaches during the winter. Winter sunshine averages almost seven hours a day, some of the highest in the country.

Winters are dry and this is conducive to grass fires, most reserves provide areas for barbecues, but caution is advised when open fires are lit.

Spring (September – October) is the beginning of the rainy season and temperatures begin to warm. This is often the perfect time for viewing game as most wildlife are raising newly born offspring on the fresh growth that arrives with the first rains. This is also the perfect time for viewing flowers as everything is blooming. Migrating birds begin to arrive back during spring and into summer. The precipitation varies 95 mm | 4 inches between the driest month and the wettest month. During the year, the average temperatures vary by 7.7 °C | 45.9 °F.

Temperatures of Empangeni per month

Table 8: High and Low temperature

	January	February	March	April	May	June	July	August	September	October	November	December
Avg. Temperature (°C)	24.1	24.5	23.7	21.8	19.4	17.2	16.8	17.9	19.2	20.5	21.8	23.4
Min. Temperature (°C)	20.6	20.9	19.9	17.5	14.4	11.6	11.3	12.9	15	16.8	18.2	19.8
Max. Temperature (°C)	27.7	28.1	27.6	26.1	24.4	22.9	22.4	22.9	23.5	24.2	25.4	27
Avg. Temperature (°F)	75.4	76.1	74.7	71.2	66.9	63.0	62.2	64.2	66.6	68.9	71.2	74.1
Min. Temperature (°F)	69.1	69.6	67.8	63.5	57.9	52.9	52.3	55.2	59.0	62.2	64.8	67.6
Max. Temperature (°F)	81.9	82.6	81.7	79.0	75.9	73.2	72.3	73.2	74.3	75.6	77.7	80.6
Precipitation Rainfall (mm)	124	113	125	71	56	30	31	46	64	95	110	110

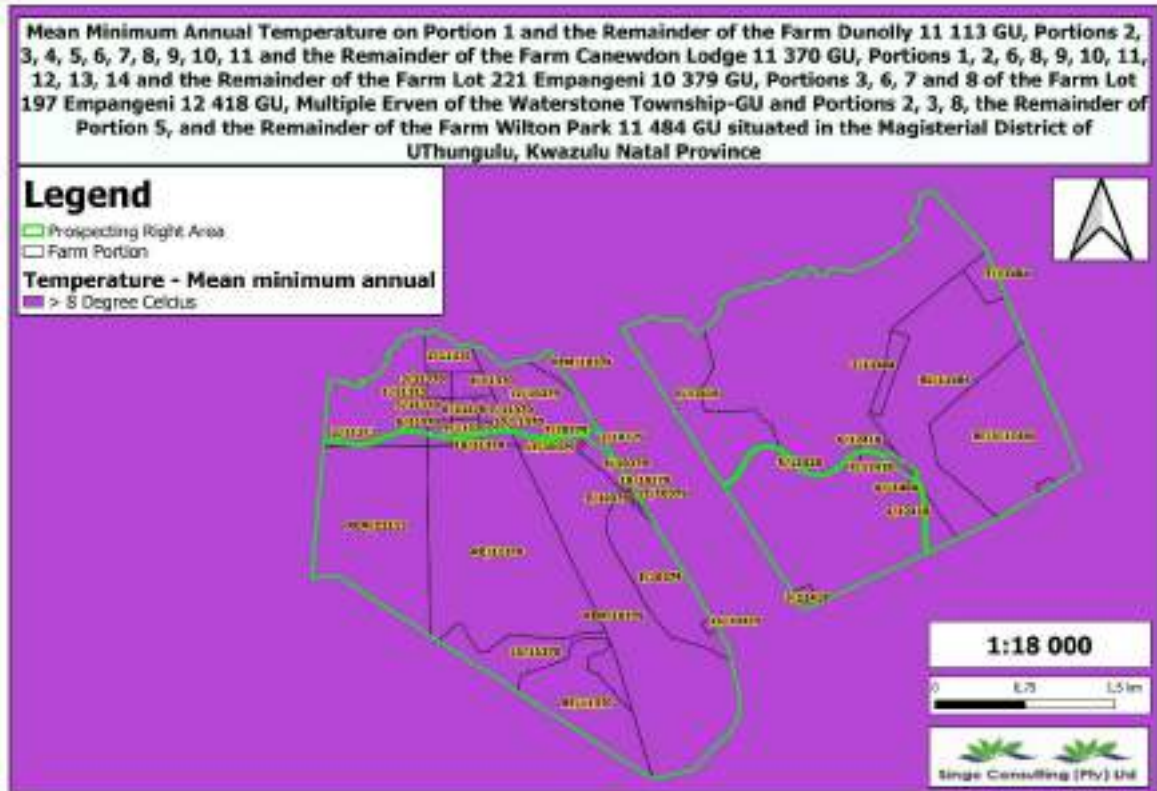


Figure 16: Annual Temperature around the project area

Rainfall

Rainfall Data for the proposed prospecting right area was obtained from the WR2005 study (Middleton and Bailey, 2009), the Rainfall Extraction Utility Programme (Kunz, 2004) and the Design Rainfall Estimation Program (Smithers and Schulze, 2002). The daily rainfall extraction utility contains daily patched rainfall data for all official South African Weather Services stations. The rainfall stations considered were close to the site had a reasonable length of record and a relatively complete and reliable data set. Mean annual rainfall within the project area is 801-1000mm. uMhlatuze experiences rain during all months of the year, although there are significant seasonal variations in the monthly rainfall.

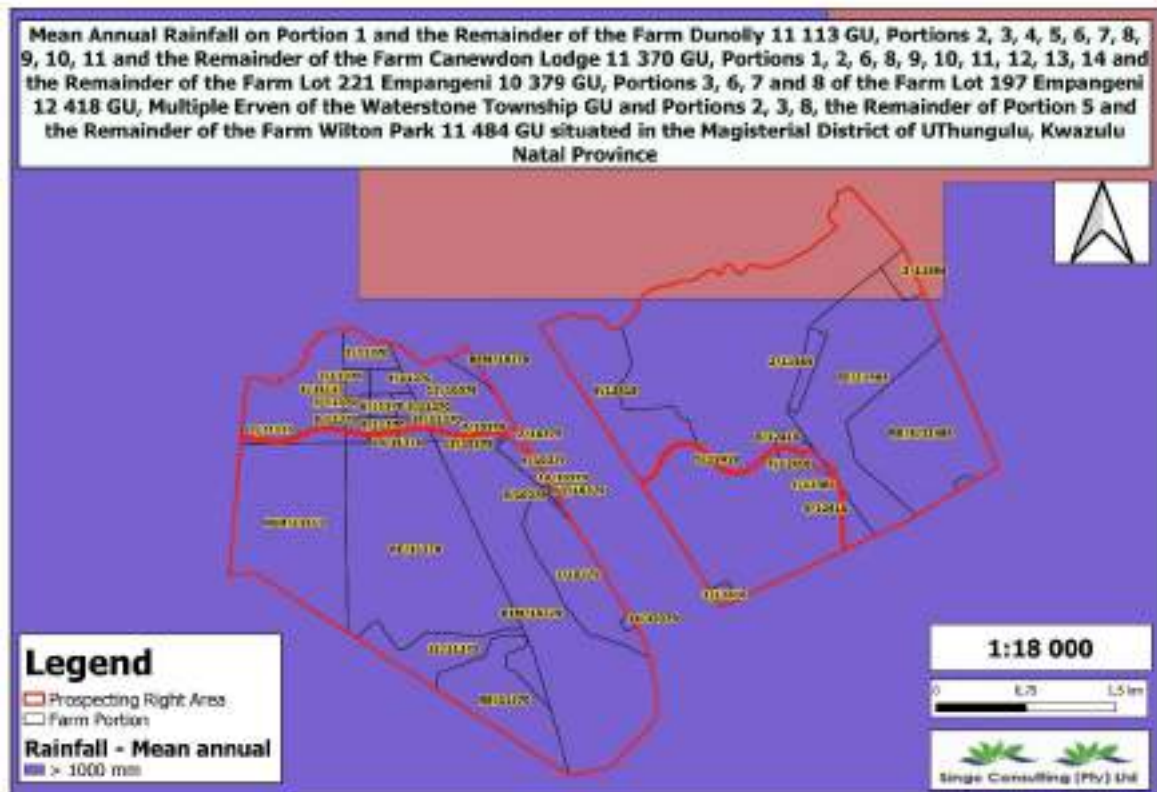


Figure 17: Average monthly rainfall

Air Quality

The assessment of the ambient air quality is based on available ambient air quality information identified in the literature review and data supplies by the Department of Environmental Affairs (DEA) and the South African Weather Service (SAWS).

Regional Ambient Air Quality

The National Environmental Management: Air Quality Act, 2004 which is referred as NEM: AQA provides an objective-based approach to the management of air quality at different government and operational levels. NEM: AQA distinctively shift from exclusively source-based air pollution control to holistic and integrated effects-based air quality management. It also focuses on adverse impacts of air pollution on the ambient environment.

The City of uMhlatuze is known to be one of the highly industrialized areas in the country, consisting of various types of industries including smelters, pulp and paper mills, chemicals, harbour, iron steel, fertiliser, coal exporters, mineral mining, forests, cement, blasting, sugar cane and expanding industrial development zone (IDZ). The harbour, also known as Port of Richards Bay, is considered to be the largest in

South Africa. It is known to be one of the growing power houses for exporting and importing activities of different commodities. Apart from the array of industries, are residential areas both rural and urban, in which various domestic activities including burning of wood, tyres, imbawula, and agricultural are conducted.

The Medical Research Council in 2000 conducted a preliminary health study in Richards Bay driven by the public concern about the status of air quality within the City of uMhlathuze. The study found that there was a high level of public concern about air quality and the associated health impacts in the area. In 2006, the City of uMhlathuze through the lead of Environmental Planning Division, appointed the Airshed Planning Professionals (Pty) Ltd to conduct a study purposed to assess air quality within the municipality and use this as one of the tools to inform their Spatial Development Framework.

The Department Agriculture and Environmental Affairs in Kwa-Zulu Natal (DAEA) in partnership with the City of uMhlathuze appointed Gondwana Environmental Solutions to further investigate by conducting a study to describe the range of ambient exposures of criteria pollutants through ambient monitoring systems and it is aimed to assess the potential risks posed by such exposures through health risk assessment concerning the health of communities in the Richards Bay and eSikhaleni.

The effective approach to air quality is highly dependent on eight (8) steps prescribed in the National Framework for Air Quality Management. The government cycle provides a useful framework for achieving continuous improvement over time as depicted in figure below:

Noise

The main land uses include agriculture, primarily sugar cane farming. Residential areas exist around the project area with some industrial hubs (Tronox KZN and Maguzulu Park) within the two project areas split by the R34. Farmhouses, a ranch and sugar cane fields cover the project area. There is a network of gravel farm roads which provide access to the project area. As can be expected in a rural area, traffic and ambient noise volumes are moderate as the R34 is the main road used to get from Empangeni to Melmoth. In the proposed Prospecting area, noise will be generally from drilling machinery operating on site. An existing Richards Bay

Quarry, Tronox KZN, the railway line and the national route R34 are primary sources of noise in the area hence ambient noise levels has already been impacted. In the proposed coal prospecting right area, noise will be generally last for at most 10 days.

The effective approach to air quality is highly dependent on eight (8) steps prescribed in the National Framework for Air Quality Management. The government cycle provides a useful framework for achieving continuous improvement over time as depicted in figure below:

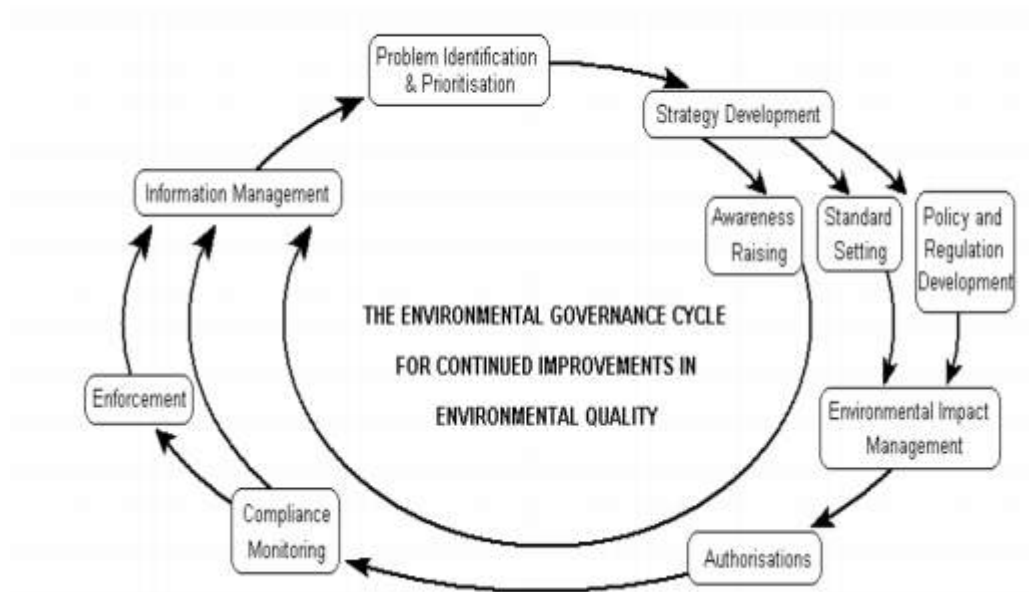


Figure 18: Environmental Governance Cycle for Continued improvements in Environmental Quality

Section 2 (12) of Chapter two (2) of NEM: AQA mandates the local municipalities to monitor the ambient air in order to determine the pollutants and their concentration and come up with strategies of reducing emissions. In response to NEM: AQA, the City of uMhlatuze purchased three (3) ambient monitoring stations and strategically placed them in three different areas of concern. These stations are located at eSikhaleni, Arboretum and Brackenhams Cemetery. The data collected by these stations are continuous.

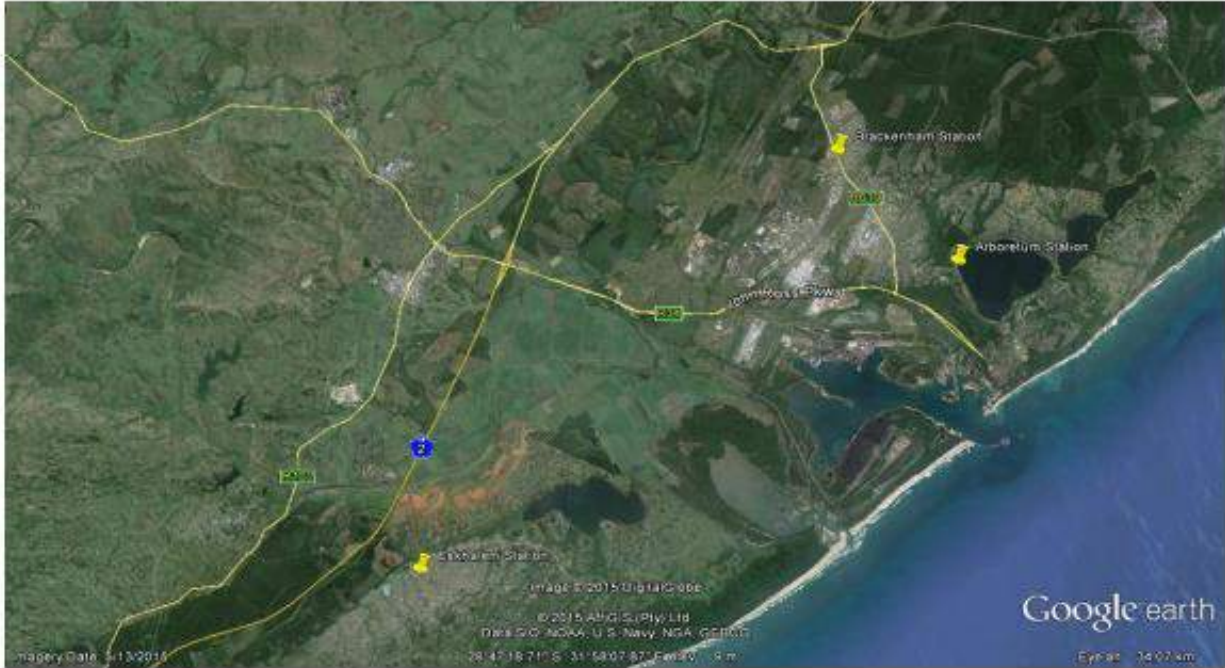


Figure 19: Location of Ambient Air Quality Monitoring Stations (highlighted Yellow Pins)

The pollutants currently measured by these stations include sulphur dioxide (SO₂), nitrogen dioxide (NO₂), particulate matter with an aerodynamic diameter less than 10 microns (PM₁₀), particulate matter less than 2.5 microns (PM_{2.5}) and ozone (O₃). The stations also monitor meteorological data, including Wind direction (WD), Wind speed (WS), temperature (T), Relative Humidity (RH) and Rain Fall (RF).

Table 9: Ambient Air Quality Monitoring Stations Co-ordinates

Stations	Station name	S-Coordinates	E-Coordinates
1	Arboretum	24°45"39,40"	32°04"42,40"
2	Brackenham	28°43"48,90"	32°02"05,20"
3	eSikhaleni	28°52"08,50"	31°54"35,10"

Table 10: Shows pollutants measured in each monitoring station.

Stations	Station name	SO ₂	NO _x	PM ₁₀	PM _{2.5}	O ₃
1	Arboretum	√	√	√	√	√
2	Brackenham	√	√	√	√	√
3	eSikhaleni	√	√	√	√	√

Table 11: Shows meteorological station and parameters that are monitored.

Stations	Station name	Int TEMPr	Amp1	WD	WS	RH	RF
1	Arboretum	√	√	√	√	√	√
2	Brackenham	√	√	√	√	√	√
3	eSikhaleni	√	√	√	√	√	√

Public roads

The area has gravel routes mostly with the national R34 route that goes from Empangeni to Melmoth. The unpaved road links to other unnamed roads and a railway which intersects the project area.



Photo 1: access roads to reach boundaries of the project as well as entrances into the portions using unnamed gravel roads



Photo 2: Railway line intersecting project area

General Geology

The general stratigraphy of KZN as pertains to the Somkhele Coalfield is provided below in Figure 15. The general geology of the coal bearing succession is best known from various descriptions available for the Somkhele mine area (Snowden, 2009; Bordy and Prevec, 2008) as well as for the Fuleni project to the south (Tovela, 2011).

The general stratigraphy, sedimentology and palaeontology presented below are amalgamated from these publications.

The Lebombo Basin (which is home to the Somkhele, Swaziland and Kangwane coalfields) is an elongated Phanerozoic depression that stretches in a north-south direction from the Limpopo River in the north, to Empangeni in the south, for a total of some 700 km. Within the Somkhele Coalfield some 600-900 m of Ecca Group and Dwyka Group lithologies underlie the coal bearing Emakwezini Formation. These are not however described here as they are not known in much detail and are not relevant to the description of the producing coal seams in the coalfield.

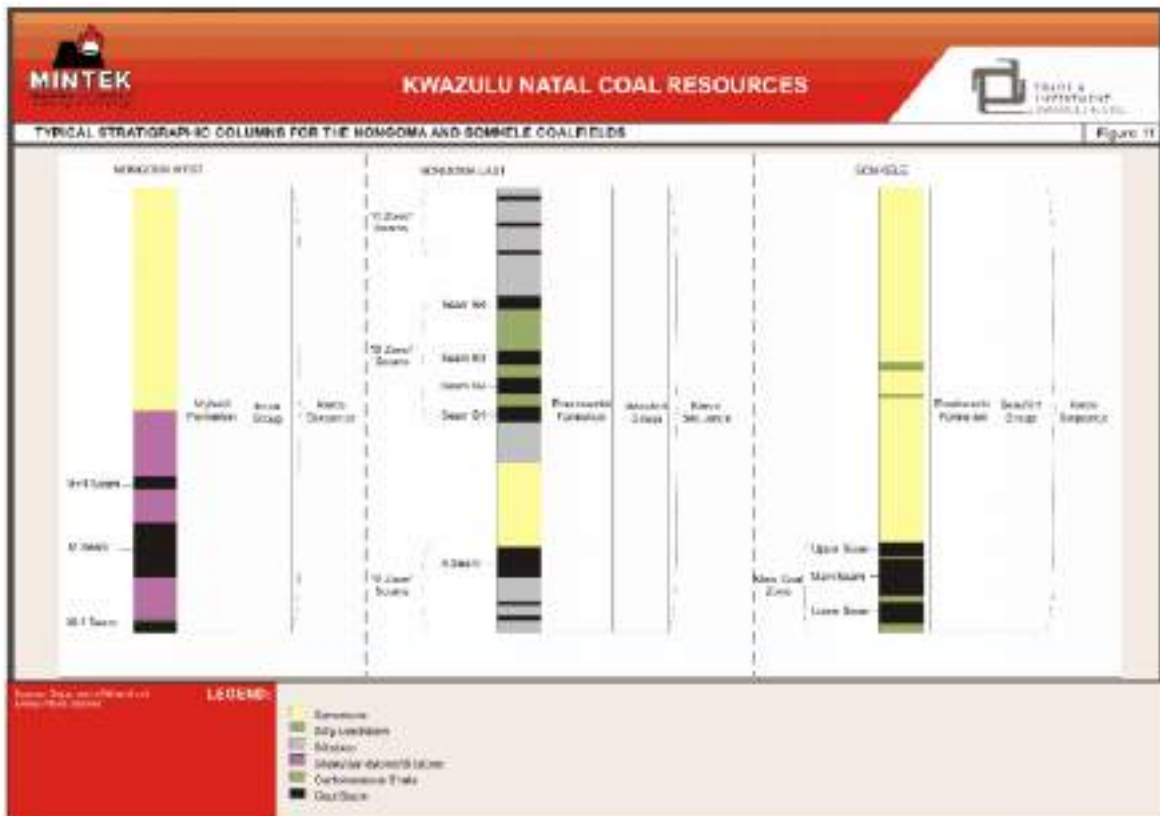


Figure 20: KwaZulu Natal coal resource (Source: TIKZN Coal Resources edit1.2.1.doc)

The project area comprises of the Emakwezini and Letaba Formation. The Letaba formation Coalfield has four coal seams (or coal zones). The seams are named in ascending order the: A (or Lower Seam), B (or Main Seam), C (or Upper Seam 1), and D (or Upper Seam 2).

Emakwezini is the sole representative of the Beaufort Group in the southern half of the Lebombo Basin, is restricted to a narrow, faulted, meridional outcrop and subcrop belt in Swaziland and north-eastern KZN. The unit is also present in the subsurface along the western side of the Lebombo Basin from eMpangeni to at least as far north as Komatipoort (Bordy and Prevec, 2008). It is estimated that the Emakwezini Formation attains a thickness of ± 490 m near the village of Somkele (Marshall, 1966), although Bordy and Prevec (2008) provide a figure of 570 m, which is more similar to the figures of ± 550 m to the west of Somkele and at Emakwezini (Watson and McGeorge, 1977). Genis (1961) notes that it thins southwards to ± 370 m west of Empangeni; however, according to Du Preez (1982), the Emakwezini Formation is ± 500 m thick in this area. North of the Somkele Coalfield the Emakwezini Formation thins dramatically, attaining a thickness of only 130-150 m in Swaziland (Davies, 1961) and near Komatipoort (Du Toit, 1918).

Lithologically the Emakwezini Formation is dominated by fossiliferous, grey, greenish-grey and brown mudstones, with intercalated coal seams, subordinate white or yellow-white, and medium- to coarse-grained feldspathic sandstones. The coal seams are associated mainly with the mudstones and whilst usually less than 1 m thick, they may locally attain thicknesses of up to 15 m.

Karoo Supergroup	GROUP	FORMATION (SACS, 1983)	FORMATION (Cilliers, 1951)		Representative Rock Type	Average thickness (m)
	Stormberg (Upper Triassic)	Drakensberg Basalt	Drakensberg	Lebombo Group	Lava, amygdaloidal	2500+
		Clarens Sandstone	Cave Sandstone	Clarens Formation	Sandstone, fine-grained	45
		Elliot	Redbeds	Nyoka Formation	Mudstone, clayey	250
		Molteno	Molteno	Ntabeni Formation	Sandstone, medium- to coarse-grained	100
	Beaufort (U. Permian-L. Triassic)	Beaufort	Beaufort	Emakwezini (Normandian) Formation	Sandstone, siltstone, mudstone, coal	570
	Ecca (Permian)	Volksrust Shale	Upper Ecca	Volksrust Formation	Intercalated shale and bright coal	140
		Vryheid	Middle Ecca	Vryheid Formation	Sandstone and grit, intercalated carb. siltstone, thick coals	550
		Pietermaritzburg Shale	Lower Ecca		Shale, sandstone and grit	200
	Dwyka (Carbon.)	Dwyka	Dwyka	Dwyka	Tillite	not exposed

Figure 21: Stratigraphic nomenclature of the Karoo Supergroup in the Somkhele Coalfield (from Snowden, 2009). It should be noted that certain of the unit names are informal and have not yet been accepted by the South African Committee for Stratigraphy (SACS).

Coal seams

Unlike in the Vryheid Formation hosted coalfields, where up to eight coal seams (or coal zones) are recognized within sandstone dominated package, in the Somkhele Coalfield only four coal seams (or coal zones) exist (Fig 3). The seams are named in ascending order the: A (or Lower Seam), B (or Main Seam), C (or Upper Seam 1), and D (or Upper Seam 2). At the Somkhele mine all of the seams dip at approximately 22° to the southeast. The B Seam coal zone is the main seam packages of economic importance in the Somkhele Coalfield, and is the only seam targeted at the Somkhele mine.

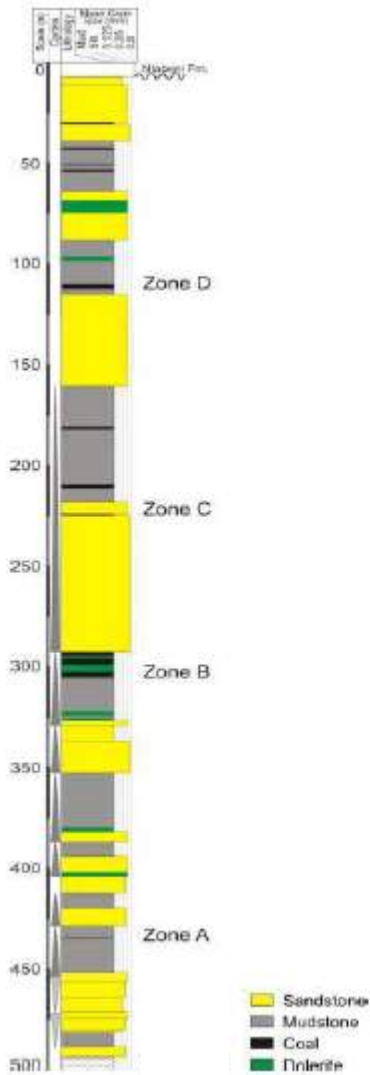


Figure 22: Stratigraphic column of the geology of the Emakwezini Formation within the Somkele Coalfield. Fm. = Formation.

The lowermost A Seam occurs at the boundary between the Lower and Middle Emakwezini formations. The B Seam occurs some 50 m above the A Seam within the Middle Emakwezini Formation, and some 60 m below the base of the Upper Emakwezini Formation, which hosts the D Seam. The C Seam occurs at the contact between the Middle and Upper Emakwezini formations and following sequence stratigraphic concepts, should rather be included in the Middle Emakwezini Formation at the top of the sedimentary cycle (Tovela, 2011).

Coal qualities

Somkehele metallurgical anthracite typically has a low sulphur content (<1 %), low calcium, and low phosphorus contaminants (<0.01 % in seams B1 and B3, and 0.018

– 0.022 % in Seam B2, producing a weighted average of 0.015 %). The sized product is therefore a viable reductant for the titanium and ferrochrome industries in South Africa, and competes with bituminous coals, chars and cokes as a carbon feedstock in the metallurgical industry. The unsized product is used for the pelletizing and sintering of iron ore.

Grobler (2006) provide coal qualities at a 1.6 RD float density for the coal only components of the Somkhele Colliery, as he believed this would best approximate the product. Whilst these have now changed significantly due to practical mining constraints they are provided below as Table 12.

Table 12: Average coal qualities for Somkhele Area 1 at a 1.6 RD float density (after Grobler, 2006).

Coal Seam	FC (%)	Ash (%)	CV (MJ/kg)	IM (%)	VM (%)	TS (%)	P (%)	Yield (%)
B (Main) Seam	72.53	16.54	29.2	1.83	9.1	0.66	0.0199	72.33

Structure and intrusions

The Somkhele Coalfield is developed on the south-eastern margin of the MKB and forms part of the Natal Monocline, a structure associated with the rifting of Gondwana in the Jurassic and Lower Cretaceous periods. The strata are inclined fairly consistently eastwards to south-eastwards at angles up to 30° (average 15-20°). Large areas of the Somkhele Coalfield are affected by dolerite intrusions of Jurassic age and these intrusions are probably the single most disruptive aspect of the coalfield (Barker, 1999). The area is characterised by a relatively high frequency of dyke intrusions, with cross-cutting dykes in nearly all directions present. The dolerites form sub-vertical dykes and bedding parallel sills. In places a major sill some 90 m thick occurs, between 110-130 m above the B Seam. Dolerite intrusions can negatively influence the coal qualities and disrupt mining. Faults with throws of up to 1300 m are documented in the coalfield.

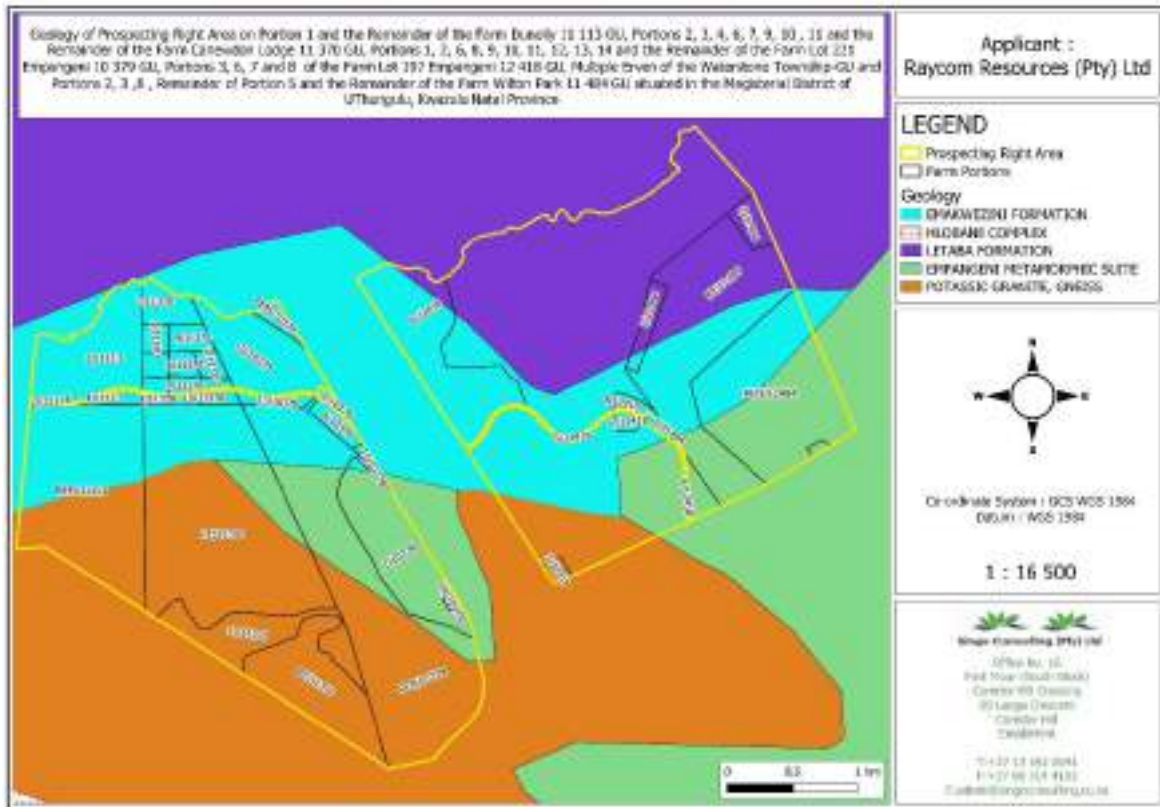


Figure 23: Geological map of the proposed area.

Local Geology

The proposed prospecting right area is comprised of two formations namely:

- Letaba Formation
- Emakwezizi Formation

Soil Study

From a desktop study that was conducted, the map below (Figure 24) was produced. This map shows that the prospecting right area is covered with a couple of soil classes including Structureless Soil and Clays and Lithosols (Shallow soils on hard or weathering rocks).

Freely drained structureless soils are types of soil characterized by sand, red soil which is less productive due to dominating of sand soils have severe limitations that reduce the choice of plants or that require special conservation practices, soils and miscellaneous areas have limitations that preclude commercial plant production and restrict their use to recreational purposes, wildlife habitat, or aesthetic

purposes. The most common structureless soils are red apedal and yellow brown apedal soil types.

Lithosols (Shallow soils on hard or weathering rocks) are a group of shallow soils lacking well-defined horizons, especially an entisol consisting of partially weathered rock fragments, usually on steep slopes (Refer to Appendix 5 for Soil Study).

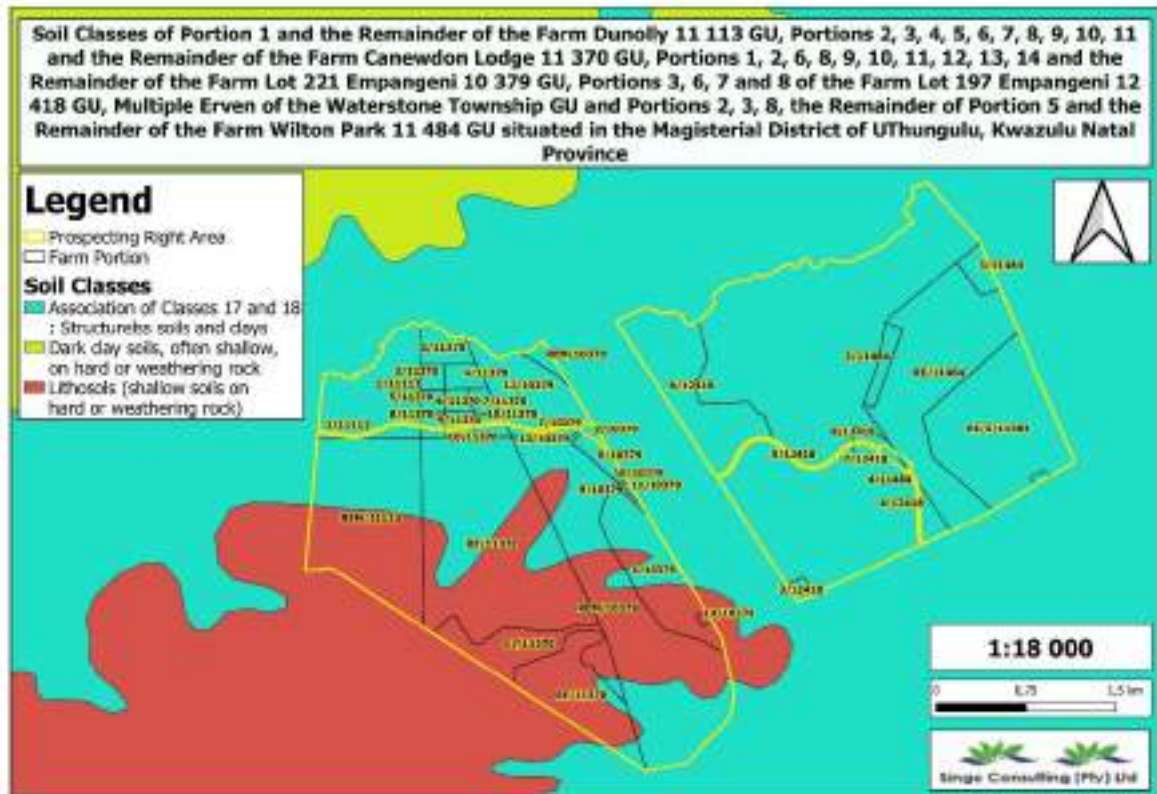


Figure 24: Soil study of the area of interest.



Photo 3: Soil type observed on site.

According to the soil management plan, soil compaction and volumes of replacement during soil reclamation are the impacts that can be expected from the prospecting phase. Heavy drill rigs equipment to be used during prospecting may lead to areas of decreased soil and land capabilities. Such areas have limited land use options and specialized management needs. However, this impact will be minimal, see recommendations below:

- Coal prospecting infrastructure will have less impact on soils and footprint will be minimal.
- It is anticipated that the Coal prospecting activities will not lead to severe loss of soils and degradation of agricultural potential.
- It is highly recommended to do rehabilitation after the period of Coal prospecting activities cease.
- The core logs of boreholes with coal ore material should be cleared from the ground immediately after logging by the geologists to prevent washing and leaching to the water resources during precipitation events

Hydrological Description

➤ Catchment

The prospecting area falls within the Pongola-Mtamvuma Water Management Area (WMA). Majority of the prospecting right area fall within the quaternary catchment W12H whilst the remaining minority is within the W12F quaternary catchment. Figure 25 below illustrates the Quaternary catchment and the Water Management Area (WMA).

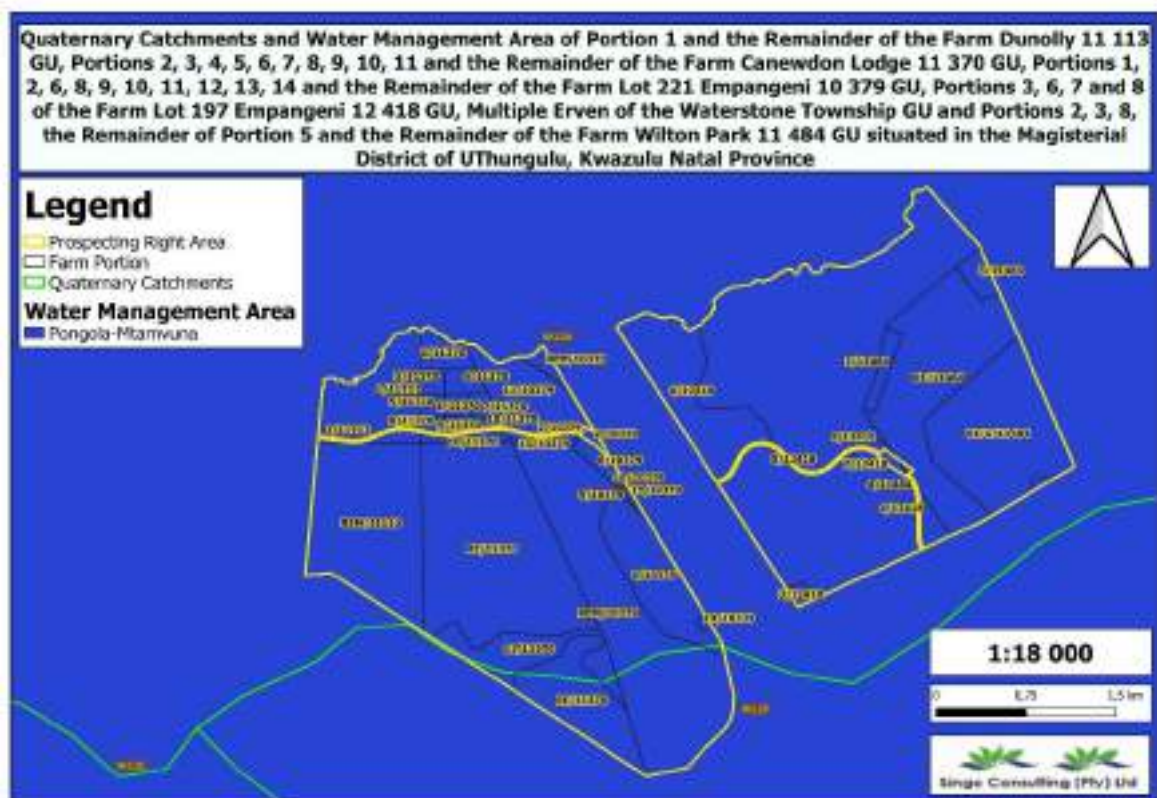


Figure 25: The sub-catchment of the project area inclusive.

The map below illustrates the Pongola-Mtamvuma Water Management Area and the project area is illustrated with a yellow polygon.

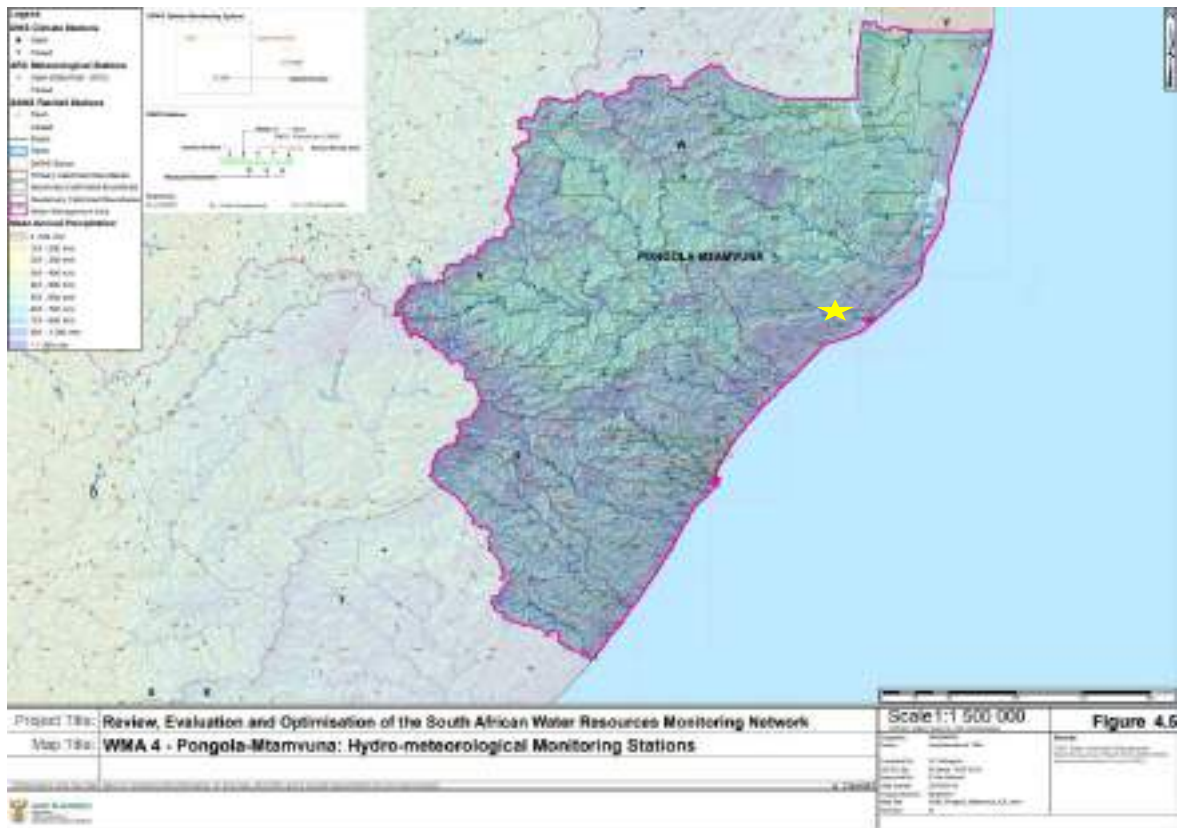


Figure 26: Water Management Area (Source: NWRM Map Book 4 Pongola-Mtamvuna,2015)

➤ Hydrology

The hydrology surrounding the proposed area is very important during prospecting. In this context hydrology is all the surface waters appearing within and nearby the proposed project area, where a potential to be impacted upon by the project exist. The hydrology map, illustrates that the following water bodies exists:

- ❖ Channeled valley-bottom wetland
- ❖ Unchanneled valley-bottom wetland
- ❖ Perennial River

The Okula Perennial River in close proximity to the northern boundaries of the project area. The Mandozi River runs within multiple portions of the Wilton Park Farm. The project area comprises of multiple streams explaining the rich and lush soils found on the land. For this project where prospecting right poses a risk on them, there should be measures and guidelines put in place that will protect the water resources in this area to ensure optimal conservation of water. The prospecting right activities should take place during dry seasons when the water percentages are extremely low. Extreme caution should be taken during prospecting, owing to the

rivers and numerous wetlands existing nearby and within the project area. And all the perennial and non-perennial rivers will be buffered as a no-go area approximately a 1km buffer should apply.

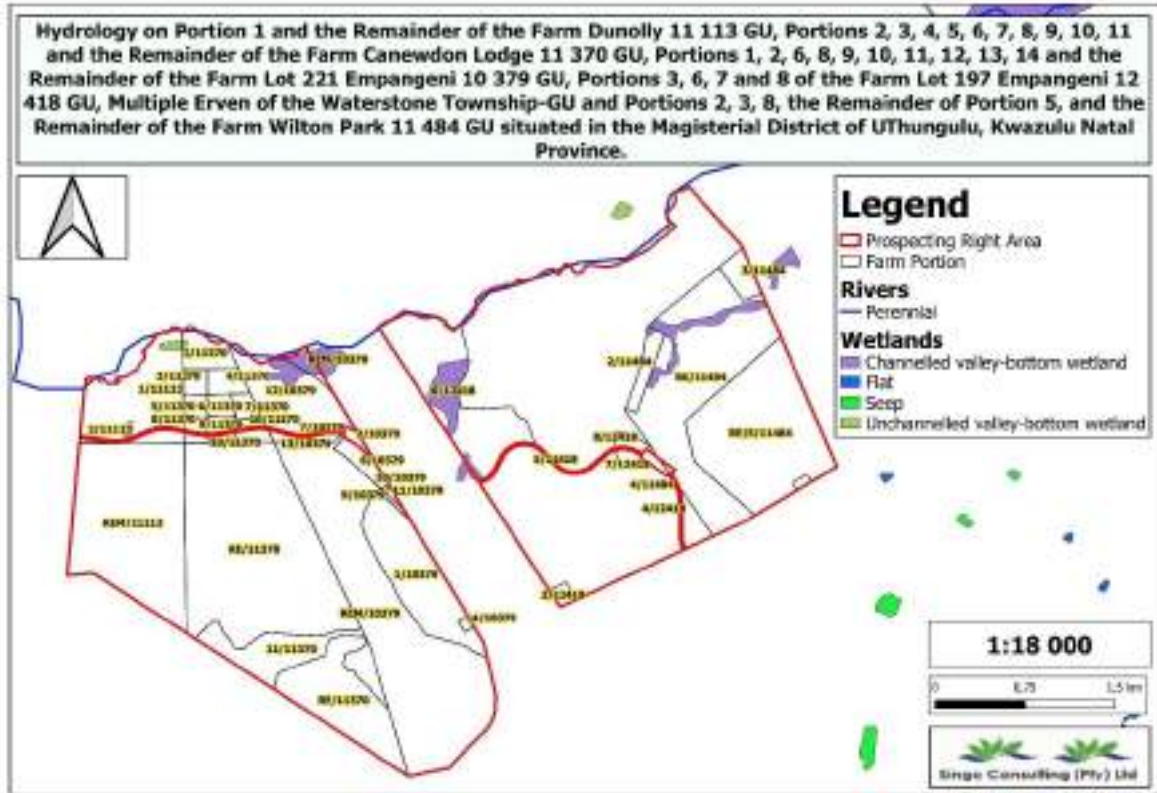


Figure 27: Environmental Sensitive Area Wetlands.



Photo 4: Okula River



Photo 5: Mandozi River

Ground Water

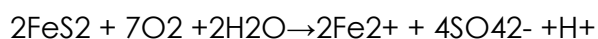
Acid generation capacity

➤ Acid mine drainage

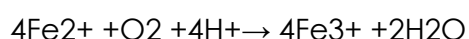
Acid mine drainage (AMD) may be a serious problem in projects where sulphate is a by-product, like in this prospecting project, AMD can occur in the drilling activity that will create cracks and fractures thereby disturbing the lithology which may leach into underground water, however only exploration boreholes will be drilled and the impact will be minimal.

When contaminants leaches to underground water AMD can potentially occur. Therefore, acid mine drainage studies should be included as one of the impacts to be mitigated in this area. Acid mine drainage occurrence in an area will be indicated by a decrease in pH. The equations below show the process of acid mine drainage formation detailed in four steps. This process is self-propagating until the ferric iron or pyrite is depleted. Generally, when pyrite combines with oxygen and water, acid mine drainage forms. Acid mine drainage is dangerous and can destroy aquatic life as well as the aesthetic conditions of an environment.

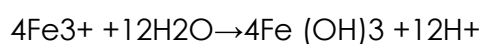
1. Oxidation of Polysulfide to sulphate by O₂



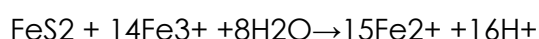
2. Oxidation of Fe²⁺ (ferrous iron) to Fe³⁺ (ferric iron) by O₂



3. Hydrolysis of iron (ferric iron → ferric hydroxide, "yellow boy")



4. Oxidation of polysulfide to sulphate by Fe³⁺ at low pH





Acid mine drainage can be treated in various ways including:

- An increase in pH or raising alkalinity. This can be achieved by neutralization reactions, introducing alkalinity reagents such as Na_2CO_3 or NaOH ,
- Removing metals like iron, zinc and aluminium from water.
- Conducting passive treatments of acid mine drainage (limestone leach beds) as well as conducting active treatment of acid mine drainage (treatment plants)

Hydrogeology

The fractured aquifer consists of the various lithologies of siltstone, shale, sandstone, and the coal seams. The pores of the geological units are generally well cemented, and the principle flow mechanism is fractured flow along secondary structures e.g. faults, bedding plane fractures etc. The intrusion of the fractured aquifer by dolerite dykes and sills has led to the formation of preferential flow paths along the contacts of these lithologies due to the formation of cooling joints. The dykes may act as permeable or semi-permeable features to impede flow across the dykes.

The flow mechanism is fracture flow as can be expected from the crystalline nature of the shale rocks. The water quality is generally characterized by high fluoride levels which limits exploitation of this aquifer in combination with the general low yields, deep (expensive) drilling and the low recharge (Grobbelaar et al, 2004). Mining of the coal seams has resulted in the introduction of an artificial aquifer system which generally dominates the groundwater flow on a local and regional scale.

Below is a cross sectional figure of a typical fractured aquifer. Water exists in fractures in Karoo weathered aquifers. Two important characterizations that exist in the study area is the upper weathered aquifer system and the lower fractured aquifer system. If the purpose of drilling boreholes is for the supply of water, drillers will usually be directed to drill targeting the fault zones, however in the present study where the boreholes to be drilled are for coal and pseudocoal exploration, fault zones and contacts should be avoided at all costs, to minimize the impact to groundwater. The boreholes drilled must be cased to avoid clogging and contamination.

Cross section of fractured aquifer

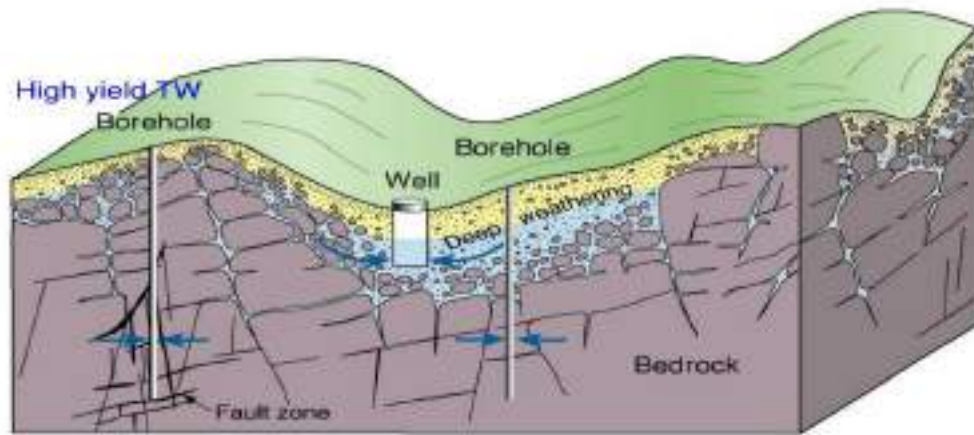


Figure 28: Cross section of a fractured aquifer

Potential contaminants

The potential contaminants for the prospecting of coal and pseudocoal are minimal and can be controlled easily as this activity will only take place for a short period of time. Fuel and oil handling facilities are likely sources of hydrocarbon related contaminants. Oils, grease and other hydrocarbon products (such as petrol and diesel) handled in these areas may contaminate the environment by spillages and leakages (e.g. from drill rigs).

Aquifer classification

The figure below illustrates aquifer classification of different areas in South Africa. It can be deduced that the project area comprises of minor aquifers and the dominant water source is a surface water. Table 13 interprets the meaning of the aquifer classification and when an area is said to have a minor aquifer it means that the aquifer is Moderately yielding aquifer of acceptable quality or high yielding aquifer of poor-quality water.

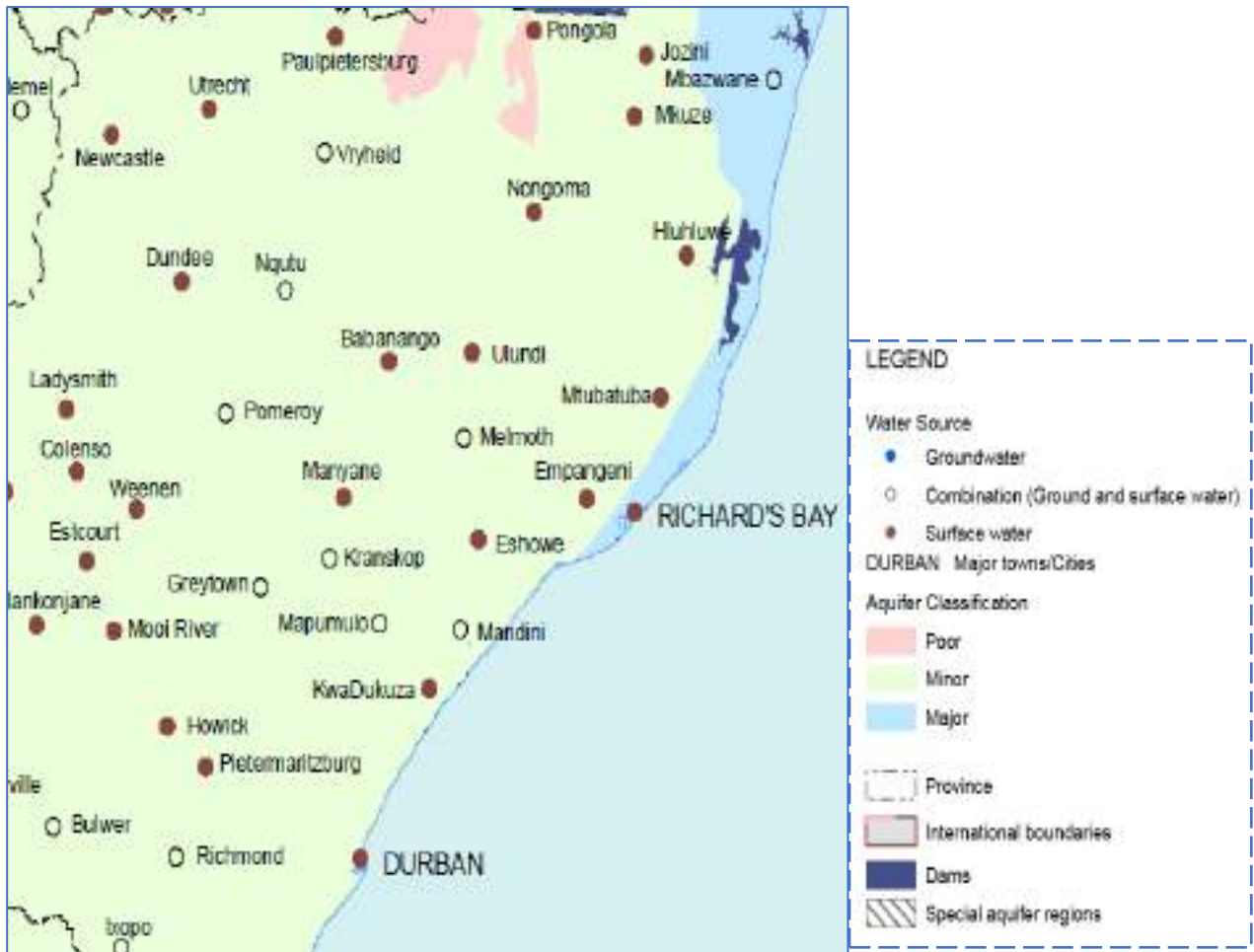


Figure 29: Aquifer classification of South Africa

Table 13: Aquifer characterization

Aquifer	Description
Sole source aquifer	An aquifer used to supply 50% or more of urban domestic water for a given area, for which there are no reasonably available alternative sources should this aquifer be impacted upon or depleted.
Major aquifer region	High-yielding aquifer of acceptable quality water.
Minor aquifer region	Moderately yielding aquifer of acceptable quality or high yielding aquifer of poor-quality water.
Poor aquifer region	Insignificantly yielding aquifer of good quality or moderately yielding aquifer of poor quality, or aquifer that will never be utilized for water supply and that will not contaminate other aquifers.
Special aquifer region	An aquifer designated as such by the Minister of Water

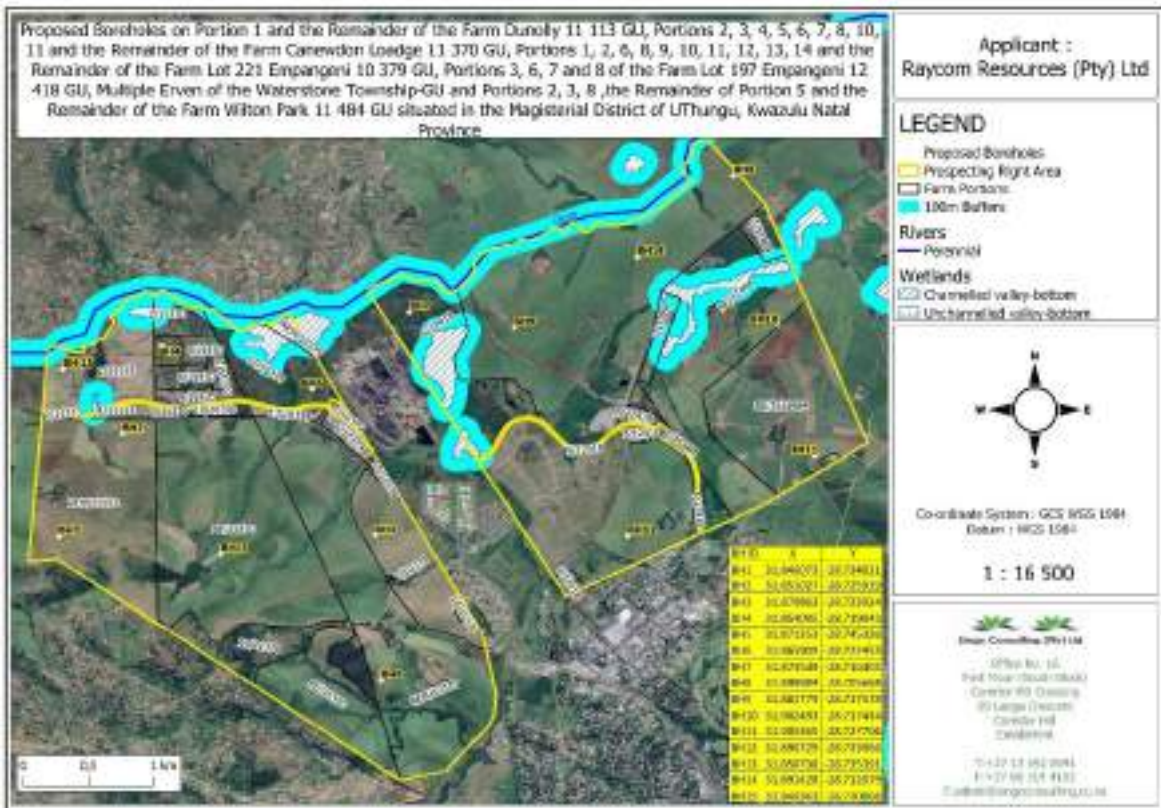


Figure 30: Wetland and Buffer zones.

Flora and Fauna

Biomes

The area falls in the Savanna Biome of South Africa as seen in Figure 31 below. The Savanna Biome is the largest Biome in southern Africa, occupying 46% of its area, and over one-third the area of South Africa (34.3%). It is a mixture of grasses and trees or shrubs. Shrub-land, bushveld and woodland are types of Savanna. The Biome is a transitional biome between those dominated by forests and those dominated by grasses, characterized mainly by a grassy ground layer and a distinct upper layer of woody plants. Where this upper layer is near the ground the vegetation may be referred to as Shrubveld, where it is dense as Woodland, and the intermediate stages are locally known as Bushveld.

The Savanna biome is well developed over the lowveld and Kalahari region of South Africa where it stretches from the Kalahari in the north-west across to the lowveld in the north-east and southwards to the lowlands of KwaZulu Natal and the

Eastern Cape. It is also the dominant vegetation in Botswana, Namibia and Zimbabwe.

More than 5700 plant species grow in the Savanna Biome. They include various types of grasses (e.g. Rooigras) and trees like the Baobab, Mopane, Camel Thorn and Knob Thorn. Most of the savanna vegetation types are used for grazing, mainly by cattle or game. In the southernmost savanna types, goats are the major stock. The proposed project area is characterised by Coast-Hinterland Bushveld vegetation type (Figure 28). This type of vegetation is dominated by Acacia/Mimosoid species.

The vegetation structure is mostly woodlands except where bush clearing has taken place and cultivation activities are taking place. See images below.

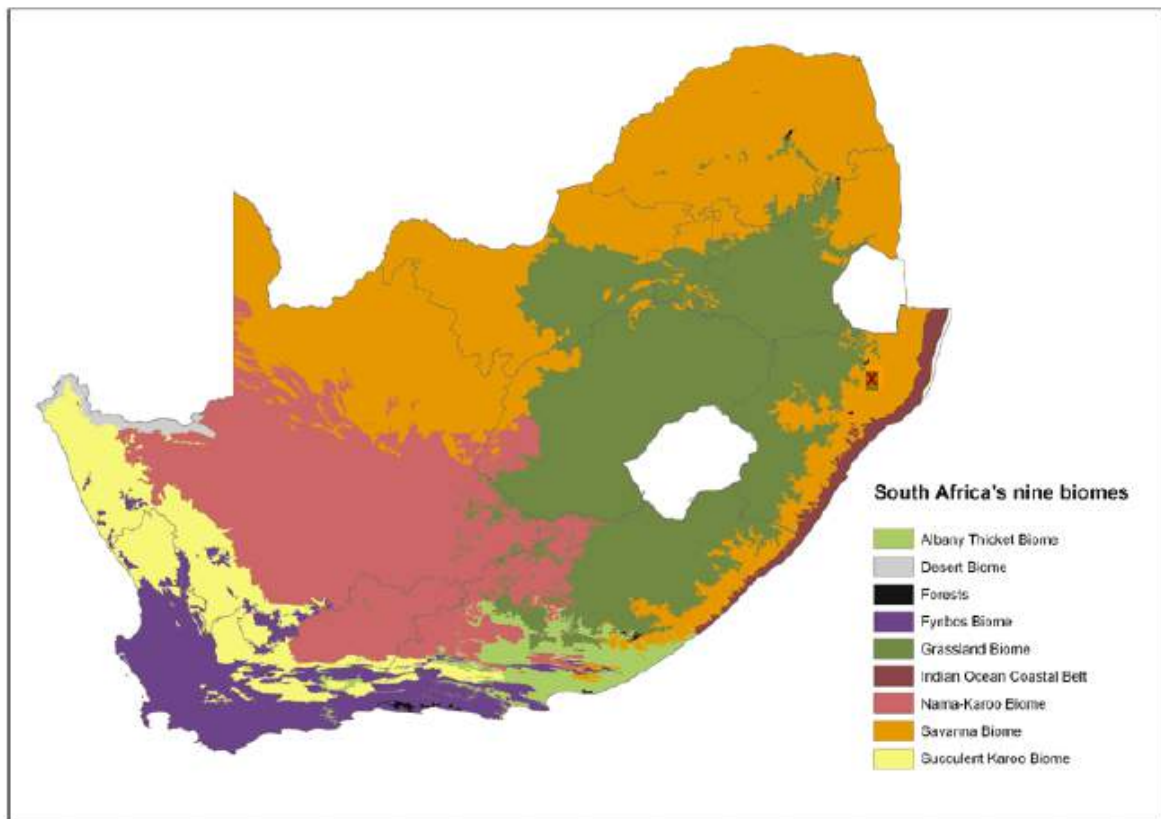


Figure 31: Map of South Africa's 9 Biomes (Project area marked X)

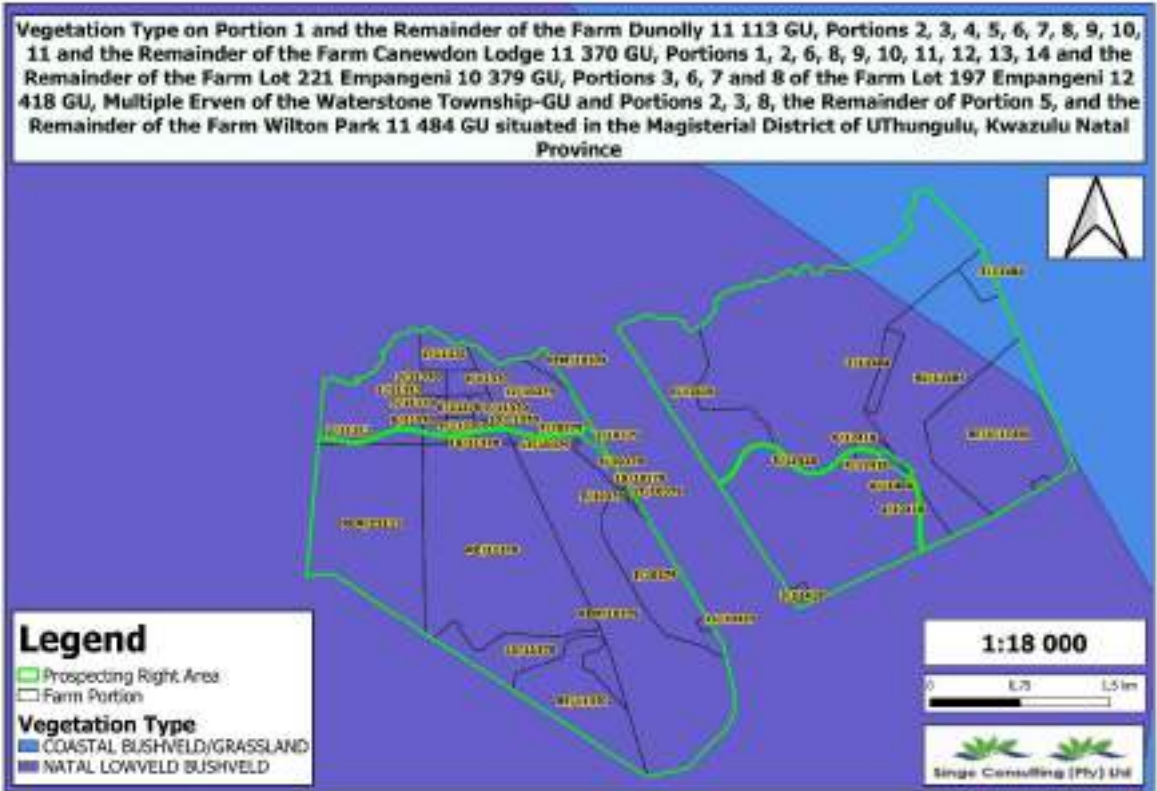


Figure 32: Vegetation type within the project area



Biodiversity and Development:

The greater uMhlathuze Municipal Area supports a total of 174 Red Data species, which according to the South African National Biodiversity Institute, ranks amongst the highest in the country for an area of its size. This remarkable concentration of Red Data Species is one the main reasons that most of the remaining percentage of undeveloped, indigenous land cover, is considered irreplaceable by Ezemvelo KZN Wildlife for meeting its conservation objectives in the Province.

Table 14: Biodiversity Significance

Vegetation Type	Red Data Species (Significance)	Conservation Target
Grasslands	124	100 % following a detailed survey. Conservation of a substantial portion of the remaining natural asset in the region is required if conservation objectives are to be pursued
Forests	90	
Nseleni River Lake Nsezi System	70	
Large Wetlands	55	
Estuaries	28	
Lakes	18	
Mhlathuze River System	11	
Swamp Forests	9	

All of the remaining ecosystem types are important for supporting Red Data Species, implying that there is a direct conflict with future development imperatives. The Spatial Development Framework on UMhlathuze has identified such development opportunities for the area. Port expansion with associated industrial development is the single most significant opportunity in the area with tremendous potential to grow the local, regional and national economy. The project area is highly sensitive near the Okula river (Wetlands and Estuaries) while on other area of the project is low sensitive. See maps below.

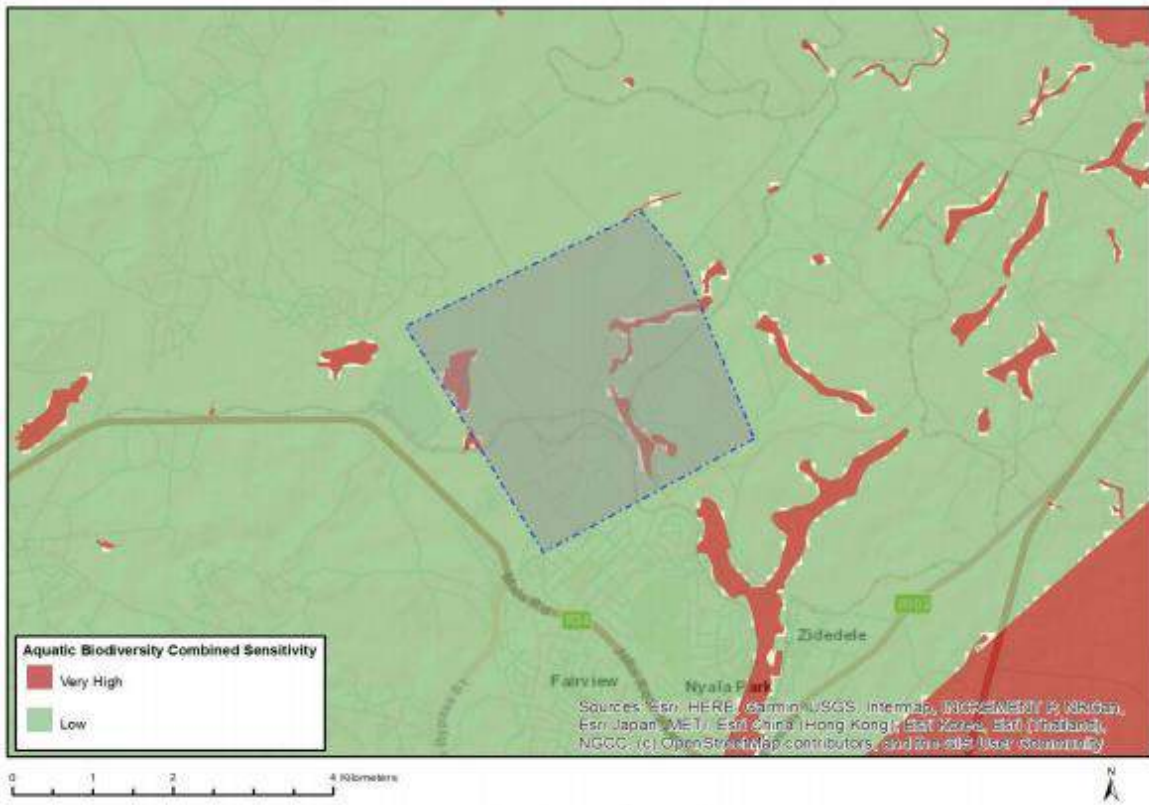


Figure 33: Environmental Sensitive Areas





Photo 6: *High Sensitivity of the project area (Okula River and Mandozi River respectively).*

Fauna

Fauna is all the animal life present in a particular region or time. Fauna expected to occur on site include assemblages within terrestrial and riverine ecosystems, including mammals, birds, reptiles, amphibians and invertebrates.

During site assessment cattle and horses were observed. There were dogs observed in the some of the farmyard houses.



Photo 7: horses observed t ranch within the proposed prospecting area

All Flora and Fauna species will be conserved, & all potential impacts on Floral and faunal species will be managed using management framework stipulated on the National Environmental Management: Biodiversity Act (Act No. 10 of 2004).

Heritage Resources

The City of uMhlathuze has high potential for archaeological heritage resources of different classes of significance. Although a considerable number of sites has been recorded, there remain gaps in availability of data on the local heritage. A desktop survey indicated a total of 125 recorded archaeological sites, which range from the Stone Age Period to the recent historic period. Most of the sites recorded indicated pressure from mining and infrastructure development within the municipal area.

Heritage resources such as Stone Age sites, rock paintings and engravings; stone tools; small, inconspicuous stone walled sites from the Late Iron Age farming communities; formal and informal graveyards, etc may occur in the study area.

The Phase 1 Heritage Impact Assessment conducted revealed that no heritage resources of significance occur within the study area or stand to be affected by the proposed project keeping in mind that the watercourses will be at 100m away from any drilling activities as it contributes to cultural and heritage aspect. There will therefore be no impacts on archaeological or cultural historical sites for any phases of the project.

It is essential to note that it is possible that the Phase 1 HIA may have missed heritage resources in the project area, as some heritage sites may occur in thick clumps of vegetation while others may lie below the surface of the earth and may only be exposed once development commences.

Should, however, any heritage resources of significance be exposed during the rather operational phase of the project, the South African Heritage Resources Authority (SAHRA) should be notified immediately, all development activities should be stopped, and an archaeologist accredited with the Association for Southern African Professional Archaeologist (ASAPA) should be notified to determine appropriate mitigation measures for the discovered finds. This may include obtaining the necessary authorisation (permits) from SAHRA to conduct the required mitigation measures.

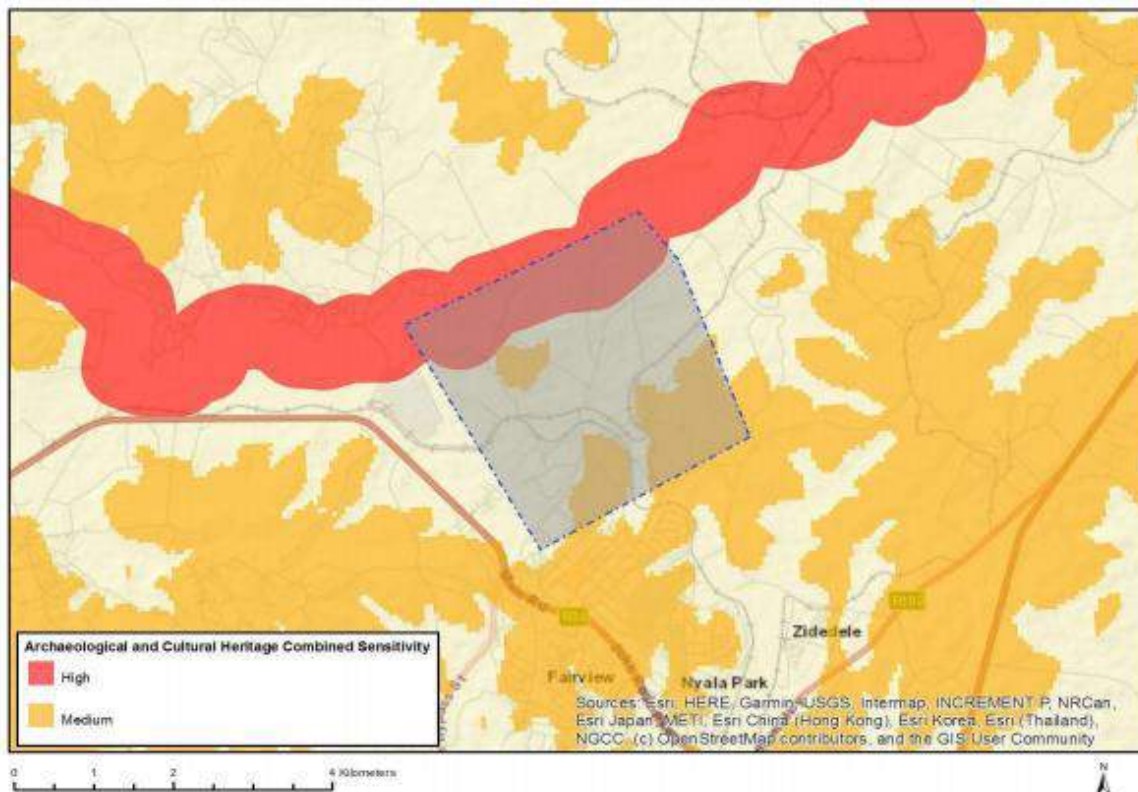


Figure 34: archaeological heritage sensitivity.

Agricultural Support Plan

Agriculture is known to be central in the economic development of rural areas rural communities are particularly vulnerable to climate change and the agricultural support plan is a mechanism to assist farmers to operate and contribute to improved food security and also participate in food value chains. The proposed project area is ranked medium to very high in agricultural support.

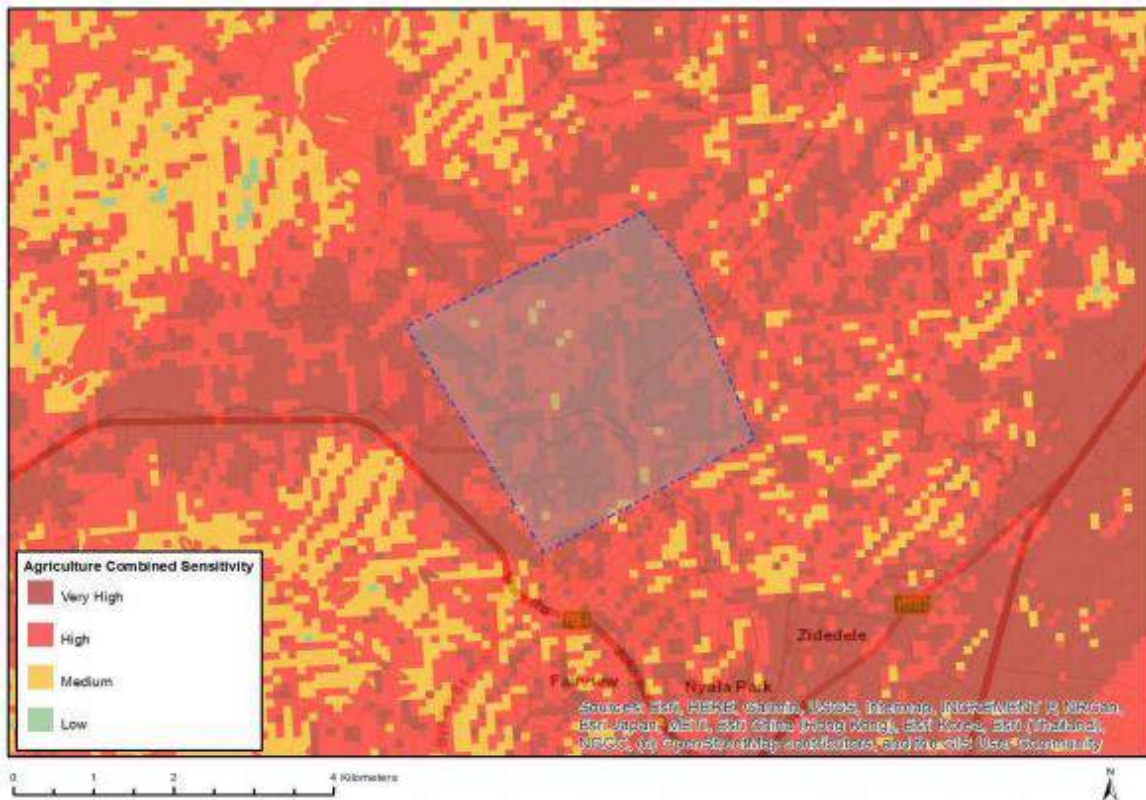


Figure 35: Agricultural Sensitivity of the area.

Socio-Economic

The study area for the proposed projects is in UMhlatuze Municipalities, located in King Cetshwayo District. The population increase in King Cetshwayo District, broken down per municipality is indicated in the table and explanatory figure herewith.

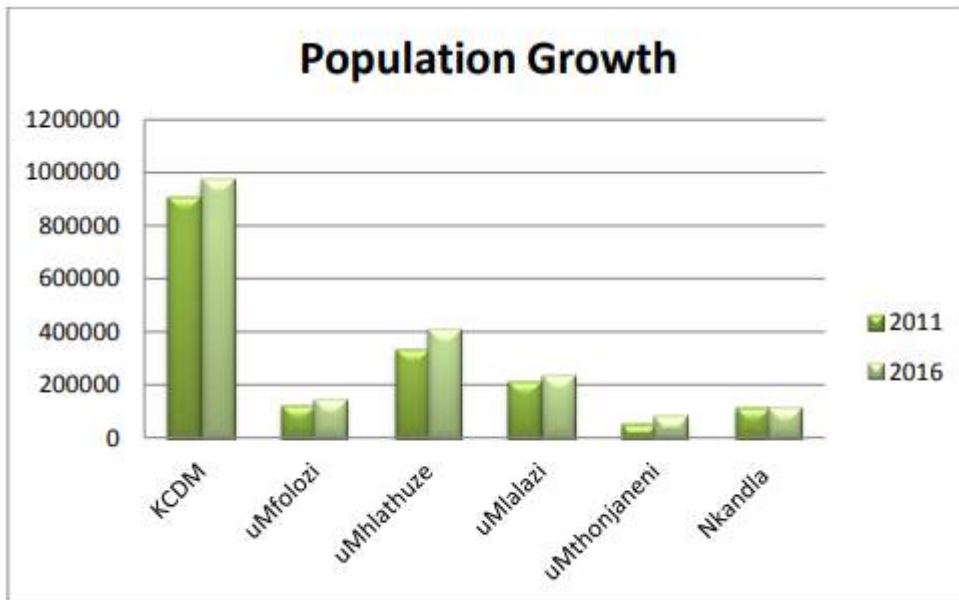
Table 15: Population Numbers

	KCDM	IMFOLOZI	UMHLATHU ZE	UMLALAZI	MTHONJA NENI	NKANDLA
2011	907519	122889	334459	213601	47818	114416
2016	971135	144363	410465	233140	78883	114284
% Growth	7,01%	17,47%	22,73%	9,15%	64,97%	-0,12%

Source: Statistics SA, Census 2011 and Community Survey 2016

Population growth scenarios have been applied to the base figure from the 2016 Community Survey. Adequate data and research are not available at this time to apply an historic growth trend as the composition of the municipality, in terms of boundaries and wards, has changed post the Local Government Elections of 2016. The following base data has therefore been used:

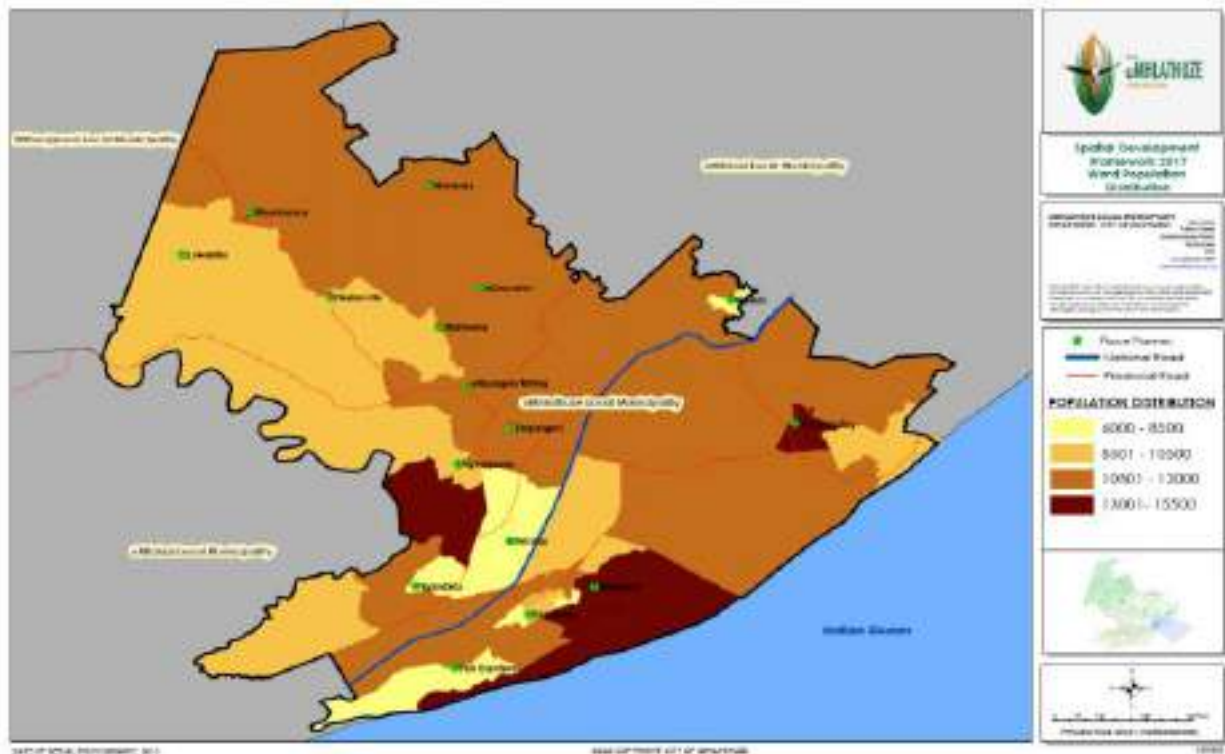
- A baseline population in the uMhlathuze Municipality of 410 465 people in 2016 as per the Community Survey
- A calculated household size of 3.95 as derived from 2011 census data
- A total number of 103 915 households in the municipal area derived from the above Community Survey.



Source: Statistics SA, Census 2011 and Community Survey 2016

Figure 36: Population Growth

The 2016 Community Survey indicates that the population of uMhlathuze Municipality has increased by just over 22% between 2011 and 2016. This increase is indicated in relation to the King Cetshwayo District Family of Municipalities.



Source: uMhlathuze SDF 2017

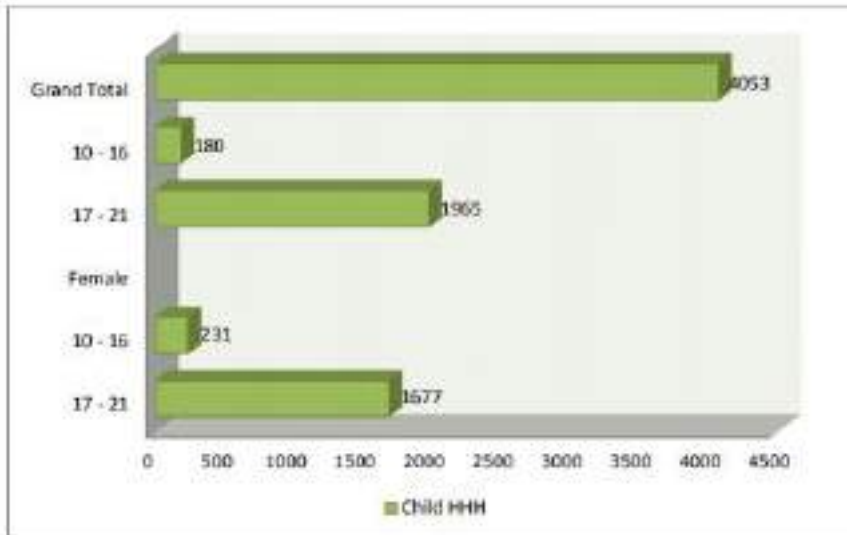
Figure 37: Population Distribution

Socio-economic Environment

Average Household Income

About 5 % of uMhlathuze Households are Child and Adolescent Headed Households. The needs of these children are complex, many and diverse. Of importance are their rights that are compromised. According to Jacobs (2005)¹, Smart (2003)², and UNICEF (2003)³, these children are often found to be fulfilling parenting roles and tasks like household chores, helping siblings with homework, providing emotional support, taking care of ill parents and providing spiritual guidance to family and sibling. They are vulnerable to all types of abuse because the family environment that served as a safety net has been eroded. The children are at risk of contracting HIV/AIDS and suffer psychological instability. They are often poor; they live in poor conditions and are exposed to hard labour. They are at risk of poor education as they quite often lack money to pay for their schooling or that of their siblings. Other risks are unemployability because of poor education and lack of skills; disease; prostitution; crime; pregnancy; poor or no shelter and no knowledge about their rights. They are exposed to emotional trauma, as they may have to cope with multiple losses in the form of death, sibling dispersal, relocation

and reconstitution of the family after the death of parents. Children in these households need shelter, clothes, food, education, access to health facilities, care giving and life skills, including coping with drugs and alcohol abuse, and protection against physical harm, sexual abuse and exploitation.



Source: Statistics SA. (Census 2011)

Figure 38: Child Headed Households.

Household income

- o At a steady population increase of 1,5% per annum, the municipal population will surpass 500 000 people by 2030.
- o The municipality will reach a population of 500 000 before 2021 if a population growth rate of 5% takes place over the next few years.
- o At such a 5% per annum population growth rate the number of households in the municipality will double by 2030.

Table 16: Population Growth Scenarios from 2016 to 2030

	2 016	2 017	2 018	2 019	2 020	2 021	2 022	2 023	2 024	2 025	2 026	2 027	2 028	2 029	2 030
1,5% Increase	410 465	416 622	422 871	429 214	435 653	442 187	448 820	455 550	462 386	469 322	476 361	483 507	490 759	498 121	505 593
Households	103 915	105 474	107 056	108 662	110 292	111 946	113 625	115 330	117 060	118 816	120 598	122 407	124 243	126 107	127 998
2% Increase	410 465	418 674	427 048	435 589	444 301	453 187	462 250	471 498	480 925	490 544	500 355	510 362	520 568	530 980	541 600
Households	103 915	105 993	108 113	110 276	112 481	114 731	117 025	119 366	121 753	124 188	126 672	129 205	131 790	134 425	137 114
3% Increase	410 465	422 779	435 462	448 526	461 980	475 841	490 117	504 820	519 965	535 564	551 631	568 180	585 225	602 782	620 865
Households	103 915	107 033	110 264	113 611	117 087	120 696	124 440	128 323	132 347	136 516	140 833	145 301	149 924	154 706	159 650
4% Increase	410 465	426 864	443 959	461 717	480 186	499 393	519 369	540 144	561 750	584 220	607 588	631 892	657 168	683 454	710 793
Households	103 915	108 072	112 395	116 890	121 566	126 429	131 486	136 745	142 215	147 904	153 820	159 973	166 372	173 026	179 947
5% Increase	410 465	430 988	452 538	475 165	498 929	523 869	550 020	577 505	606 444	636 866	668 804	702 304	737 416	773 993	812 693
Households	103 915	109 111	114 566	120 295	126 310	132 625	139 256	146 219	153 530	161 207	169 267	177 730	186 617	195 948	205 745

Ward	Number	Households	Size
1	12146	3406	3.57
2	12255	3931	3.12
3	9058	2586	3.50
4	12473	2941	4.24
5	15564	3391	4.59
6	12544	3549	3.53
7	5895	2232	2.64
8	5136	1815	2.83
9	13558	4317	3.14
10	11311	2513	4.50
11	9130	1513	6.03
12	8574	1963	4.37
13	14928	2688	5.55
14	12316	3263	3.77
15	12251	3064	4.00
16	7801	1878	4.15
17	10462	3346	3.13
18	14887	2880	5.17
19	12019	2983	4.03
20	8551	2488	3.44
21	6950	1931	3.60
22	9181	1960	4.68
23	10704	3323	3.22
24	18332	4371	4.19
25	13870	3162	4.39
26	11524	2909	3.96
27	8874	2673	3.32
28	7441	2355	3.16
29	15368	3368	4.56
30	11360	3915	2.90
31	9820	2074	4.73
32	9474	1586	5.97
33	10707	1941	5.52
	364464	92315	3.95

Source: Statistics SA (Census 2011)

Figure 39: Household Numbers and Sizes

Age Breakdown

The population age cohort <15 has been declining at the district and uMhlatuze Local Municipality level while the population cohort for the 15-64 age group has shown an increase at both the district and local municipality level between 2001 and 2011. The latter could be indicative of increased perceptions of Employment opportunities in the uMhlatuze area resulting in an in-migration into the area. An increase in the older age cohort (65+) is also observed between 2001 and 2011. Such could be indicative of the elderly deciding to reside in the area upon retirement or of improved health care facilities and an improved standard of living.

Table 17: Population Age Structure

	Population		Age Structure (Percentage % of Population)					
			<15		15-64		65+	
	2001	2011	2001	2011	2001	2011	2001	2011
DC28: Uthungulu	885965	907519	38.3	34.8	57.3	60.7	4.4	4.5
KZN282: uMhlatuze	289190	334459	33.0	29.3	64.2	67.5	2.8	3.2

Source: Statistics SA, (Census 2011)

Education

Education levels are provided for the 2001 and 2011 census years. Comparisons are made with the levels in the country, the uThungulu District as well as the local municipalities in the uThungulu district. The following table provides a summary of the situation while more explanatory figures are provided hereafter of specific situations.

Although there has been a slight increase in the primary enrolment levels at national and district level, it remains concerning that, in some instances, nearly 10% of children of school going age, are not attending school. Reasons could relate to access, affordability and other poverty related factors such as HIV/Aids for this. The number of persons that do not have any education (no schooling) has declined between 2001 and 2011 as indicated in the figure hereunder.

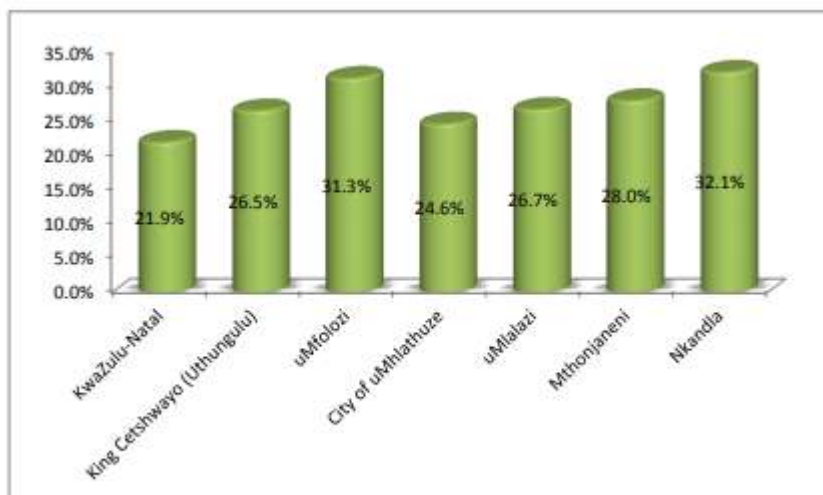
Table 18: Comparative Education Levels

	No Schooling		Higher Education		Matric		Primary Educational Enrolment aged 6-13	
	2001	2011	2001	2011	2001	2011	2001	2011
South Africa	17.9	8.4	8.4	6.7	22.1	27.8	91	93.1
DC28: Uthungulu	31.6	15.7	5.8	4.2	18.3	29.5	88.3	89.6
uMhlatuze	18.5	7.2	10.9	7.3	27.6	36.9	90.1	91.7
Nkandla	49.8	28.8	2.5	1.7	11.5	21.0	88.7	86.7
Mfolozi	29.6	14.6	2.3	1.2	14.5	30.3	89.3	88.2
Ntambanana	38.0	21.2	1.5	0.8	10.4	23.1	86.4	91.3
uMlalazi	39.2	22.5	3.5	2.9	13.2	22.9	87.0	88.9
Mthonjaneni	37.3	23.3	3.9	2.3	14.7	22.1	85.6	88.9

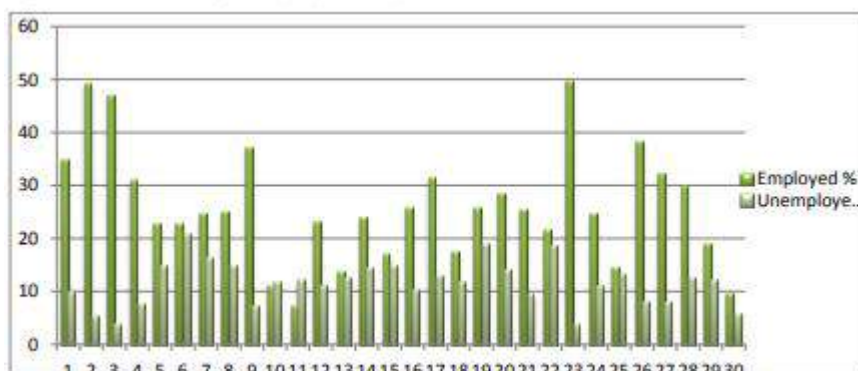
Source: Statistics SA, Census 2011

Employment

The figures below shows the percentage of persons in the respective municipal wards that are Employed and Unemployed. The highest percentage Employment is in Ward 1, 2, 3, 9, 23 and 29. These wards largely correlate with the developed urban areas of Richards Bay and Empangeni. Unemployment levels seem to be highest (as a percentage) in Wards 6, 19 and 22. These wards largely correlate with areas that are developing (densifying) on the urban periphery of ESikhaleni and Nseleni. With the wards to be incorporated there is positive rate of Employment as compared to Unemployment. The highest rate of Unemployment from the wards to be incorporated in found in ward 5.



Source: Global Insights 2017



Source: Statistics SA, (Census 2011)

Figure 40: Total Employment within KwaZulu Natal & Percentage Employment per Ward

Key Findings

uMhlatuze is the municipality with the largest population in the district.

- o At a projected population annual growth rate for uMhlatuze of 2%, the municipal population will double by the year 2050, 35 years from now. The impact of such a population increase on municipal services as well as other governmental services is very significant.

- o The uMhlatuze Local Municipalities has the smallest household size in the district with 3.9. This has remained the same since 2001.

- o The municipal wards that have the highest population numbers are wards 5, 13, 18, 24, 25 and 29.

- o In line with national and provincial trends, there are more females than males in the Municipality, i.e. 171 516 females and 162 943 males.

- o Unemployment levels seem to be highest (as a percentage) in Wards 6, 19 and 22. These wards largely correlate with areas that are developing (densifying) on

the urban periphery of ESikhaleni and Nseleni.

o Very high numbers of persons in Wards 5, 6, 13, 15, 18, 25 and 29 earn less than R1600 per month.

b) Description of the current land uses.

The locality and extent of current land use within and around the prospecting right area is shown in the figure below. The land uses for majority of the project area is cultivated land, which is where the sugar cane fields are located. The remainder of the farm and surrounding areas is natural lands. Residential/industrial areas are found on the areas illustrated as natural land. The farming type found on the project area is sugar cane (see figures below).

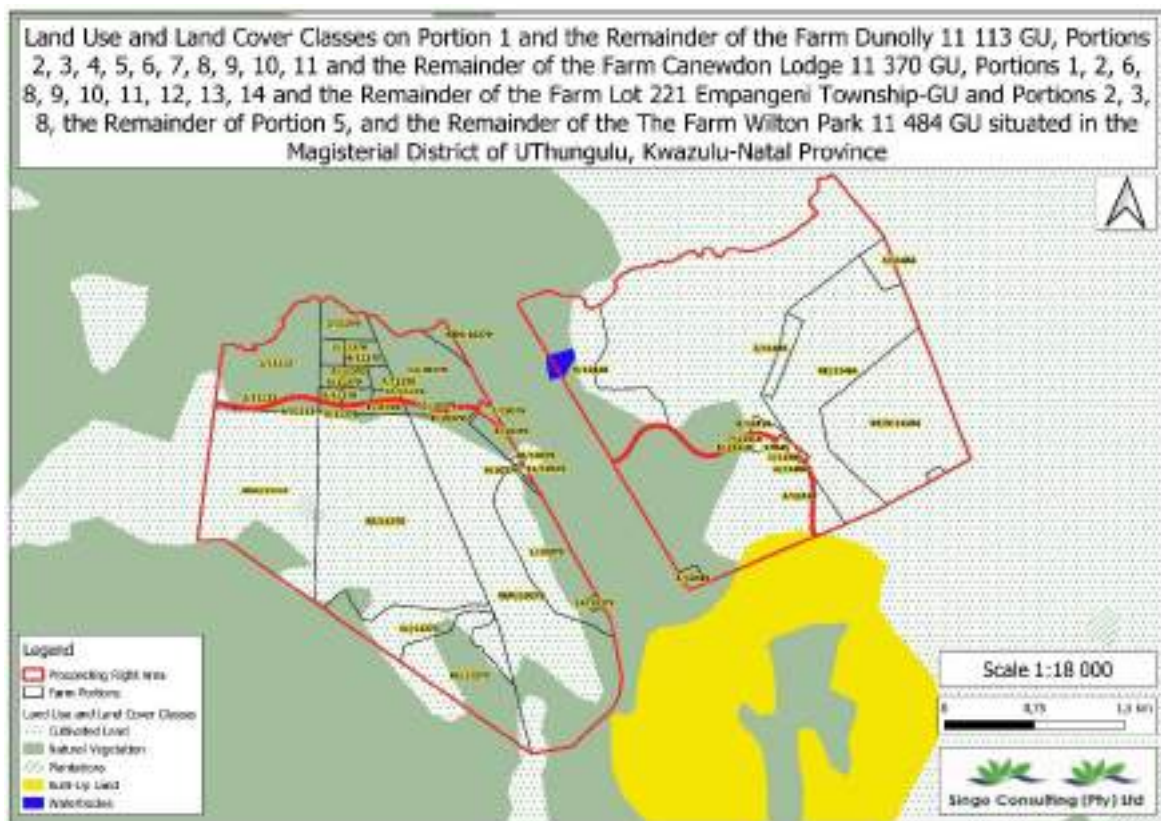


Figure 41: Land use Map of the area of interest.

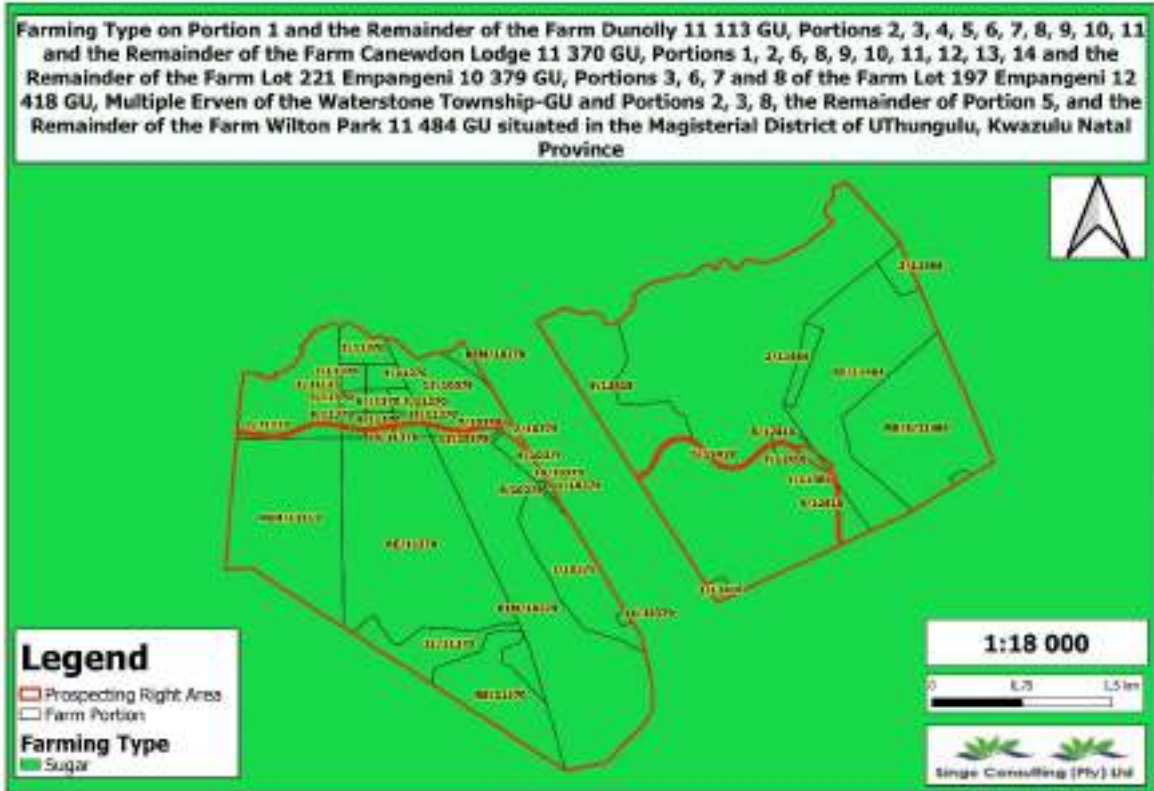


Figure 42: Farming type found within application area

The following table provides a breakdown of land potential/capability in terms of hectares and percentages.

Table 19: Land Potential in uMhlathuze

Land Capability	Size(Hectares)	Percentage (%)
High Land Potential	11548	9.89
Good Land Potential	73062	62.55
Moderate Land Potential	21565	18.46
Restricted Land Potential	2258	1.93
Very Restricted Land Potential	6975	5.97
Waterbodies	1400	1.20
Sub-Total	116808	100.00

Photo 8: Land usage images.

Like anywhere in SA, there is no doubt that the gross poverty and inequality in uMhlathuze will lead to people seeking jobs from these operations. The project area could just be a walking distance to seek for Employment to someone eagerly seeking for job. Combined with this landscape of poverty and inequity, the harsh

reality of the double family burden carried by many black people in South Africa - together with lack of job creation by our government, will further inspired people to go to the forefront of the strike wave around the proposed area.

c) Description of specific environmental features and infrastructure on the site.

The Project area is situated closer to the Okula river. There is a horse-riding ranch and landscaping operation on Dunolly. There are areas that have been demarcated for low income houses. According to locals portions of the project has been approved by the municipality and already has a water system and access roads. The project area has gravel road and also a national route (R34), Electricity poles were observed around the site and also on site, farm homesteads were also observed. A railway line Heatonville also bypasses the farm portions.

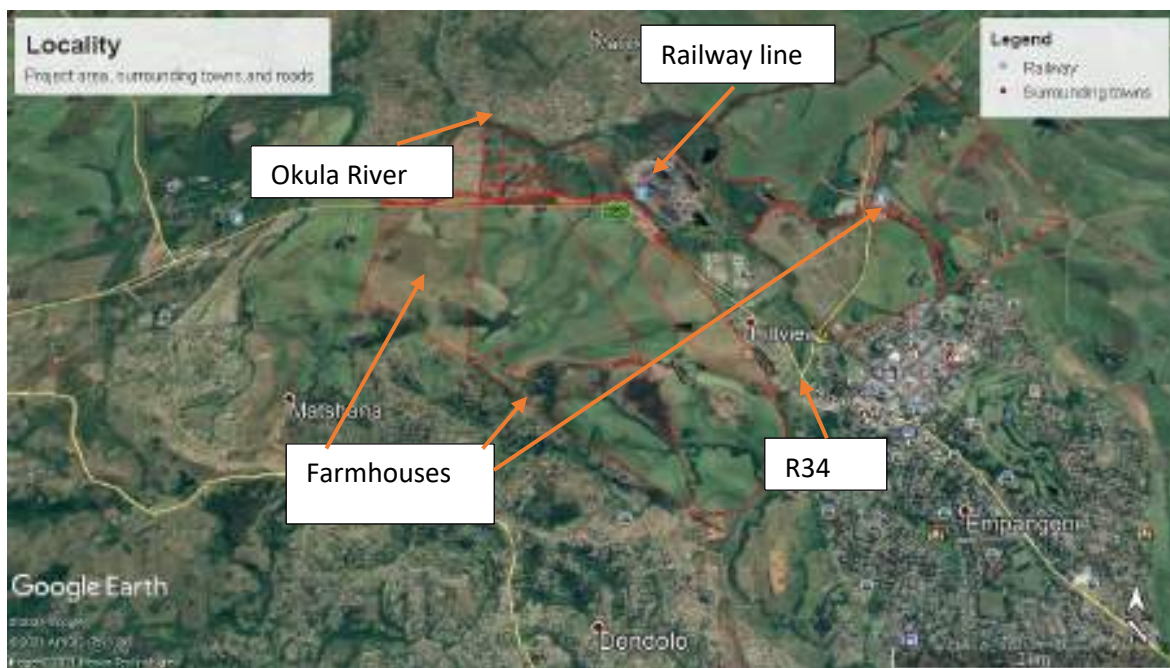


Photo 9: Infrastructures on and around the site.

10. Environmental and current land use map.

(Show all environmental, and current land use features)

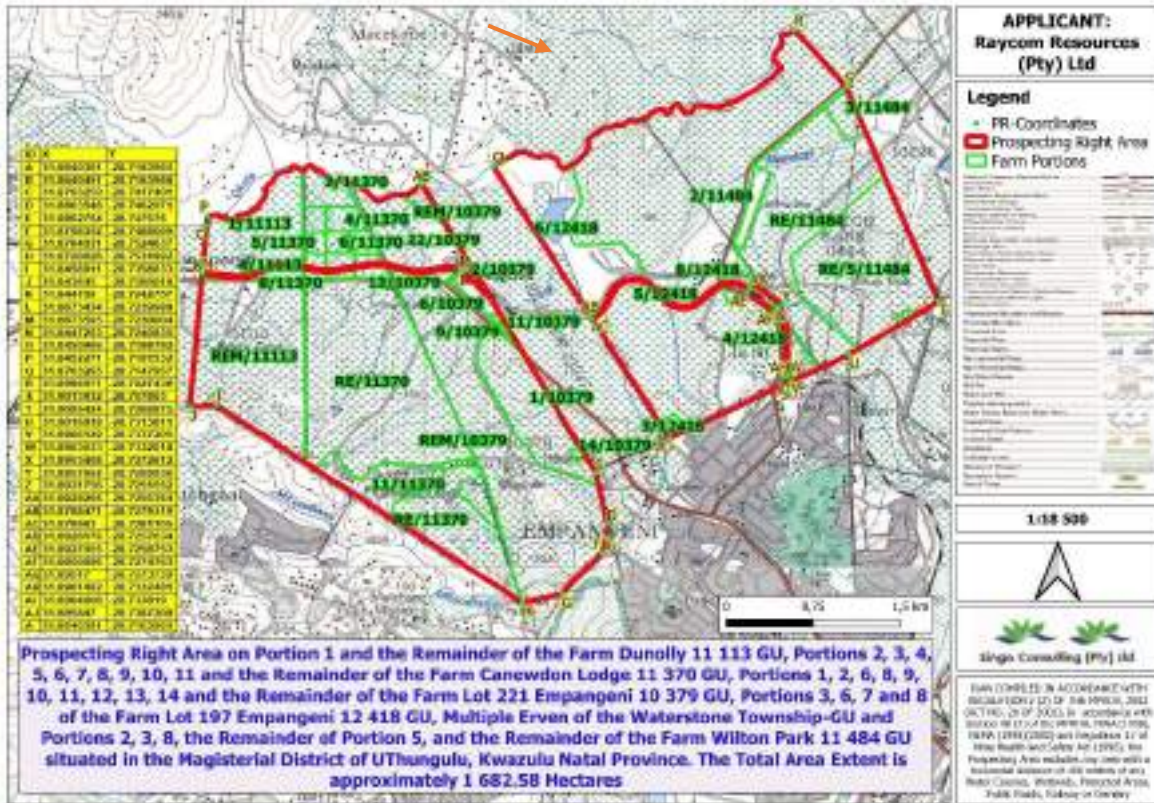


Figure 43: Environmental and current land use maps.

11. Impacts and risks identified including the nature, significance, consequence, extent, duration and probability of the impacts, including the degree to which these impacts

(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).

Element	Aspects and Impacts	Mitigation	Impact (post-mitigation)			
			Extent	Duration	Probability	Level of Significance
Soils	There will be minor disturbance of the soil at the proposed drill sites.	Rehabilitate each site as soon as the drilling is completed.	Low	Short Term	Definite	Low
Vegetation (Zululand Lowveld)	The potential impact of the proposed prospecting on the vegetation would occur at proposed drilling sites and the access routes used to get to these sites. However large parts of the site have been transformed. Vegetation clearing could be major in the game farm as the area is has sections with dense vegetation where giraffes feed off from.	Environmental awareness training. Drillers to comply with all EMP procedures. Drilling sites to be located in disturbed areas wherever possible. The prospecting area including drill sites and access routes are to be rehabilitated to as near original condition as possible. No fires to be made in the prospecting area. Sections which have dense vegetation must be avoided during drilling process.	Low	Short Term	Definite	Low
Animal life (Ranch of horses)	Animal life will be affected in the portion where we find horse riding. It is anticipated that the noise and general activity will keep the animal life away from the site while the prospecting is ongoing at the game farming and also other areas with livestock's. Stock and game theft. Stock and game loss due to unmonitored gates.	Environmental awareness training for workers. If any animals are encountered they must not be killed or injured, but should rather be removed or chased away from the site. Drilling activities will not be allowed during the hunting season. Drillers are not permitted to poach animals during drilling/having access to the farm. Adhere to open and close of gate procedures. The drill team must be registered by the landowner and have access cards to the premises to ensure	Low	Short Term	Definite	Low

	Vibrations caused by drilling will scare the animals,	controlled access to the farm. No unauthorised visitors/access will be allowed. The drilling position will be located 1.36km away from the position of the houses. Monitoring with the assistance from the landowner will be done to ensure that crocodiles are not negatively impacted for that duration of drilling.				
Surface Water	There is a river at the boundary of the proposed area (Okula River and Mandozi) which can be impacted negatively should water machines be used.	Drilling method will be air flush thus no water will be used to avoid any developing acid mine drainage through the drill holes.	Low	Short term	Possible	Low
Ground water	No groundwater will be used or abstracted during the prospecting operations.	Establish EMPr procedures to minimise hydrocarbon spills.	Low	Short Term	Possible	Low
Air Quality	Dust creation during drilling operations due to car speed.	Establish EMPr procedures to minimise the generation of dust. Ensure vehicles drive slowly and air flush drilling method is used with a compressor to minimize dust	Low	Short Term	Probable	Low
Noise	Noise will be created by the drilling rig and vehicles. However, this is a sparsely populated agricultural and mining area *Richards Bay Quarry).	Ensure vehicles and equipment are maintained. Silencers should be fitted on all engines should be need arise to ensure game farm experience minimal noise.	Low	Short Term	Definite	Low

Cultural Heritage	There are no known important heritage resources on the site apart from the nearest Okula river and houses.	If any heritage resources, including fossils, graves or human remains, are encountered these must be reported to the authorities and the space where they occur must be excluded from drilling procedures.	Low	Short Term	Possible	Low
Visual	The prospecting activity will not change the visual character of the property.	Rehabilitate drill sites and access tracks.	Low	Short Term	Definite	Low

Socioeconomic	The effect of this prospecting activity for Employment and socio-economic regime would be positive, but very limited in extent and duration. If a significant resource is delineated this could have a significant positive socio-economic impact, however a mining right application would be subject to a separate EIA process.	Environmental awareness training will be provided to all workers. Maximise procurement of goods and services from local providers.	Low	Short Term	Definite	Low (positive)
Social Neighbours	The prospecting operations should not impact on the neighbours due to the distance and low intensity of the prospecting operation.	Ensure compliance with the EMPr. Ensure workers do not trespass onto neighbours' property. Maintain communications and keep a "Complaints Register" on site.	Low	Short Term	Possible	Low
Solid Waste	All solid waste will be transported to the nearest municipal waste site. Any industrial (hazardous) waste will be transported to a suitable waste disposal facility.	Ensure compliance with the EMPr. Include in environmental awareness training. Workers will not stay overnight at the site and waste bins must be placed on site.	Low	Short Term	Definite	Low
Traffic and access	Prospecting activities will generate very limited additional traffic. Prospecting vehicles are to access the property via existing roads, extension routes and tracks only. Speeding at the farms	Comply with traffic regulations. Keep to speed limits. Ensure compliance with the EMPr.	Low	Short Term	Definite	Low
Cumulative Impacts	There are no significant cumulative impacts associated with this prospecting programme.	No mitigation required for prospecting.	N/A	N/A	N/A	N/A

12. Methodology used in determining and ranking the nature, significance, consequences, extent, duration and probability of potential environmental impacts and risks;

(Describe how the significance, probability, and duration of the aforesaid identified impacts that were identified through the consultation process was determined in order to decide the extent to which the initial site layout needs revision).

Criteria to Consider when Determining Severity of impacts

The ranking of impacts / determination of significance is estimated using two criteria, namely Consequence and Probability. These consider the contributing factors / criteria listed in the legislation. The definitions of each are provided below.

The evaluation of impacts is conducted in terms of the criteria detailed in Tables below. The various environmental impacts and benefits of this project are discussed in terms of impact status, extent, duration, probability, and intensity. Impact significance is regarded as the sum of the impact extent, duration, probability and intensity and a numerical rating system has been applied to evaluate impact significance; therefore, an impact magnitude and significance rating is applied to rate each identified impact in terms of its overall magnitude and significance.

In order to adequately assess and evaluate the impacts and benefits associated with the project it was necessary to develop a methodology that would scientifically achieve this and to reduce the subjectivity involved in making such evaluations. To enable informed decision - making it is necessary to assess all legal requirements and clearly defined criteria in order to accurately determine the significance of the predicted impact or benefit on the surrounding natural and social environment.

The **Consequence** of an impact resulting from an aspect is expressed as a combination of:

- **Nature** of impact: An indication of the extent of the damage (negative impacts) or benefit (positive impacts) the impact inflicts on natural, cultural, and/or social functions (environment).

Rating	Description	Quantitative rating
Positive	A benefit to the receiving environment.	P
Neutral	No cost or benefit to the receiving environment.	-
Negative	A cost to the receiving environment.	N

- **Extent** of impact: A spatial indication of the area impacted (i.e. how far from activity the impact is realised). The extent of an impact is considered as to whether impacts are either limited in extent or if it affects a wide area or group of people. Impact extent can be site specific (within the boundaries of the development area), local, regional or national and/or international.

Rating	Description	Quantitative rating
Low	Site-specific: Occurs within the site boundary.	1
Medium	Local: Extends beyond the site boundary. Affects the immediate surrounding environment (i.e. up to 5 km from the project site boundary).	2
High	Regional: Extends far beyond the site boundary, widespread effect (i.e. 5 km and more from the project site boundary).	3
Very high	National and/or international, extends far beyond the site boundary, widespread effect.	4

- **Duration** of impact: A temporal indication of the how long the effects of the impact will persist, assuming the activity creating the impact ceases. For example, the impact of noise is short lived (impact ceases when activity ceases) whereas the impact of removing topsoil exists for a much longer period of time.

Rating	Description	Quantitative rating
Low	Short term: Quickly reversible, less than project lifespan, 0-5 years.	1
Medium	Medium term: Reversible over time, approximate lifespan of the project, 5-17 years.	2
High	Long term: Permanent. Extends beyond the decommissioning phase, >17 years.	3

- **Impact Probability:** The probability of the impact describes the likelihood of the impact actually occurring.

Rating	Description	Quantitative rating
Improbable	Possibility of the impact	1

	negligible, chance of occurrence <10%.	
Probable	Possibility that the impact will materialize is likely, chance of occurrence 10 – 49.9%.	2
Highly probable	It is expected that the impact will occur, chance of occurrence 50 – 90%.	3
Definite	Impact will occur regardless of any prevention measures, chance of occurrence >90%.	4
Definite and cumulative	Impact will occur regardless of any prevention measures, chance of occurrence >90% and is likely to result in cumulative impacts	5

- Frequency of the impact occurring:** An indication of how often an aspect, as a result of a particular activity, is likely to occur. Note that this does not assess how often the impact occurs. It applies only to the aspect. For example driving takes place daily whilst other activities takes place monthly while the resultant frequency of the impacts occurring will vary based on a number of factors.
- Impact Intensity:** The intensity of the impact is determined to quantify the magnitude of the impacts and benefits associated with the proposed project.

Rating	Description	Quantitative rating
Maximum benefit	Where natural, cultural and / or social functions or processes are positively affected resulting in the maximum possible and permanent benefit.	+5
Significant benefit	Where natural, cultural and / or social functions or processes are altered to the extent that it will result in temporary but significant benefit.	+4
Beneficial	Where the affected environment is altered but natural, cultural and / or social functions or processes continue, albeit in a modified, beneficial way.	+3
Minor benefit	Where the impact affects the environment in such a way that natural, cultural and / or social functions or processes are only marginally benefited.	+2
Negligible benefit	Where the impact affects the environment in such a way that natural, cultural and / or social functions or processes are negligibly benefited.	+1
Neutral	Where the impact affects the environment in such a way that natural, cultural and / or social functions or processes are not affected.	0

Negligible	Where the impact affects the environment in such a way that natural, cultural and / or social functions or processes are negligibly affected	-1
Minor	Where the impact affects the environment in such a way that natural, cultural and / or social functions or processes are only marginally affected.	-2
Average	Where the affected environment is altered but natural, cultural and / or social functions or processes continue, albeit in a modified way.	-3
Severe	Where natural, cultural and / or social functions or processes are altered to the extent that it will temporarily cease.	-4
Very severe	Where natural, cultural and / or social functions or processes are altered to the extent that it will permanently cease.	-5

The proposed activities have very low significance since these are short term activities. The probability of occurrence of an impact was determined and most of these activities can be controlled and impacts can be reduced or avoided. The probability was also used basing on looking at other prospecting activities of similar nature. Generally prospecting activities have low impact on the environment. The planned activities negative impacts can be controlled and avoided or minimised therefore the layout does not require revision. Changes in plan will be discussed with the farmers and approvals will be signed.

- **Impact Significance:** The impact magnitude and significance rating is utilised to rate each identified impact in terms of its overall magnitude and significance.

Impact	Rating	Description	Quantitative rating
Positive	High	Of the highest positive order possible within the bounds of impacts that could occur.	+12-16
	Medium	Impact is real, but not substantial in relation to other impacts that might take effect within the bounds of those that could occur. Other means of achieving this benefit are approximately equal in time, cost and effort.	+6-11
	Low	Impacts is of a low order and therefore likely to have a limited effect. Alternative means of achieving this benefit are likely to be easier, cheaper, more effective and less	+1-5

		time consuming.	
No impact	No impact	Zero impact	0
Negative	Low	Impact is of a low order and therefore likely to have little real effect. In the case of adverse impacts, mitigation is either easily achieved or little will be required, or both. Social, cultural, and economic activities of communities can continue unchanged.	-1-5
	Medium	Impact is real, but not substantial in relation to other impacts that might take effect within the bounds of those that could occur. In the case of adverse impacts, mitigation is both feasible and fairly possible. Social cultural and economic activities of communities are changed but can be continued (albeit in a different form). Modification of the project design or alternative action may be required.	-6-11
	High	Of the highest order possible within the bounds of impacts that could occur. In the case of adverse impacts, there is no possible mitigation that could offset the impact, or mitigation is difficult, expensive, time-consuming or a combination of these. Social, cultural and economic activities of communities are disrupted to such an extent that these come to a halt.	-12-16

13. 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.

(Provide a discussion in terms of advantages and disadvantages of the initial site layout compared to alternative layout options to accommodate concerns raised by affected parties)

Potential impact on heritage resources

There are no graves or historical ruins in the proposed prospecting area that were observed. The area has been extensively used for agriculture in the past and therefore no to very limited heritage resources are present apart from the Okula river

as according to the screening report that was conducted. The prospecting is so localised that it is not anticipated that there will be any impact on heritage resources. The major activity involved drilling and it is going to be done along current access routes with an open view of creating additional routes on areas where pegged positions cannot be accessed, unless a different hole gets to be drilled along the existing route.

Potential impacts on communities, individuals, or competing land uses in close proximity

The following impacts are regarded as community impacts:

- Potential groundwater and soil pollution resulting from accidental hydrocarbon spills and soil erosion
- Noise during prospecting operations- There are no residential housing within the radius from the prospecting sites therefore noise impact will be limited
- Influx of persons (jobseekers) to site as a result of increased activity and the possible resultant increase in opportunistic crime
- Creation of limited temporary jobs for locals. Impact on current land use: A large majority of the prospecting area is currently used for agricultural activities including game farming.

Potential impact of vegetation

Prospecting site will be cleared to a maximum of 600m². Therefore, vegetation clearance will be limited, and sites will be sited as to avoid large trees or shrubs. The site camp will be established at the existing farmhouses therefore no vegetation clearance will be required. Existing access roads will be utilised and in areas without existing farmhouses and roads, gazebo will be erected, and additional roads will be created. It should be noted that roads will be created only when the is a need.

14. The possible mitigation measures that could be applied and the level of risk.

(With regard to the issues and concerns raised by affected parties provide a list of the issues raised and an assessment/ discussion of the mitigations or site layout alternatives available to accommodate or address their concerns, together with an assessment of the impacts or risks associated with the mitigation or alternatives considered).

This section contains guidelines, operating procedures and rehabilitation/pollution control requirements which will be binding on the holder of the prospecting right after approval of the Environmental Management Programme Report. It is essential that this area be carefully studied, understood, implemented and adhered to at all time.

The applicant shall ensure that this Environmental Management Programme Report is provided to the Project Manager and any other person or organisation who may work on the site. Raycom Resources Development shall ensure that any person or organisation that works on the site complies with the requirements of this Environmental Management Programme Report.

Responsibility

- The environment affected by the prospecting operations shall be rehabilitated, as far as is practicable, to its existing state.
- The environment affected by prospecting shall be maintained in a stable condition that will not be detrimental to the safety and health of humans and animals.
- The prospecting shall not result in the pollution of the environment or lead to the degradation thereof.
- It is the responsibility of the Company to ensure that the Project Manager, Employees and contractors are capable of complying with all the statutory requirements which must be met in order to prospect, which includes the implementation of this EMPr.
- The Project Manager will be responsible for the practical implementation of this EMPr.

Schedule

Ongoing, during the prospecting period.

Community relations

The Company shall notify the landowner two weeks before prospecting operations commence. The notice shall include contact details for any complaints about the actual prospecting activities.

The Company shall keep a "Complaints Register" on site. The Register shall contain the contact details of the person who made the complaint, and information regarding the complaint itself. The Company shall respond to all complaints within seven days. Copies of all responses should be kept together with the Register.

Schedule

Ongoing, during the prospecting period.

Layout Plan

A copy of the layout plan as provided for in Regulation 2(2) must be available at the prospecting site for scrutiny when required.

Schedule

Ongoing, during the prospecting period.

Workers

Environmental awareness training must be provided to all workers. Workers will not be allowed to trespass onto neighbouring properties.

Schedule

Ongoing, during the prospecting period.

Protection of flora and fauna

Except to the extent necessary for carrying out the prospecting activities, flora shall not be removed, damaged or disturbed nor shall any vegetation be planted.

It is anticipated that the noise and general activity will keep the animal life away from the site whilst drilling is taking place. If animals are encountered during the prospecting operations they must not be killed or injured. Trapping, poisoning and / or shooting of animals is strictly prohibited. No domestic pets are permitted on site.

Schedule

Ongoing, during the prospecting period.

Road safety and access

The access road to and routes in the prospecting area must be established in consultation with the landowner and existing roads and tracks shall be used as far as practicable. The erection of temporary gates in fence lines and the open or closed status of farm gates is not necessary as there is already existing fence and gates. Tracks across areas covered by natural vegetation will be kept to the absolute minimum required.

Employees must comply with all speed and traffic regulations on public roads and should not exceed 40km/hour on farm roads. Any changes should be communicated with the stakeholders, landowners and the departments affected.

Schedule

Ongoing, during the prospecting period.

Water

No water will be sources as the drilling method planned to be used is Air Flush method which uses a compressor. No groundwater will be used or abstracted during the drilling programme. employees will bring in their own drinking water on a daily basis (25L's).

Schedule

Ongoing, during the prospecting period.

Office / Camp Site

In order to minimise impacts in the prospecting area, temporary office or camp site (Gazebo) will be erected. All employees will stay offsite during the night. The employees will drive to the site every day when drilling operations are in progress.

A security company may be contracted to protect the drilling equipment overnight or over weekends if the drill contractors have a weekend off.

Schedule

Ongoing, during the prospecting period.

Vehicles and Fuel

Vehicles will be kept to the absolute minimum required to complete the prospecting tasks. This will consist of 4WD vehicles (bakkies), a drilling rig, and a fuel bowser. All

servicing and refuelling of the support vehicles will take place in town (i.e. outside of the prospecting area).

If emergency maintenance is required in the field, the Company must ensure that no pollution occurs. When servicing equipment, drip trays shall be used to collect the waste oil, hydraulic fluid and other lubricants. Drip trays shall be provided in the prospecting area for stationary plant (such as the drill rig).

Vehicles and equipment used in the prospecting operation must be adequately maintained so that no spillage of oil, diesel, petrol or hydraulic fluid occurs.

Only the drilling rig will need to be refuelled in the prospecting area. The surface under the refuelling point shall be protected against pollution by means of carefully placed drip trays. If any hazardous substances such as fuels and oils etc. are brought to the site and left overnight then they shall be securely stored in an open area with temporary fencing in a previously disturbed area. This area should be located on a facility with a PVC lining in order to prevent soil and groundwater pollution.

The Company shall ensure that there is always a supply of absorbent material available to absorb / breakdown / encapsulate minor hydrocarbon spills. The quantity of such materials shall be able to handle a minimum of a 200-litre hydrocarbon spill.

Used oil should be collected in a suitable container and this should then be removed from the site, either for resale or for recycling.

Any effluents or waste containing oil, grease or other industrial substances must be collected in a suitable container and removed from the site, either for resale, recycling or for appropriate disposal at a recognised facility.

Schedule

Ongoing, during the prospecting period.

Toilet facilities

Portable/ mobile chemical toilets must be brought to the site during the Invasive Prospecting Phases (i.e. Drilling). These toilets must be serviced regularly.

Schedule

Ongoing, during the prospecting period.

Waste management

Biodegradable waste and non-biodegradable waste (e.g. glass bottles, plastic bags, metal scrap, etc.) shall be disposed of in different containers. All waste must be removed from the site on a daily basis and disposed of at a recognised waste disposal facility (e.g. nearest municipal waste site). Specific precautions shall be taken to prevent waste from being dumped on or in the vicinity of the prospecting site.

If any hazardous waste is generated, then this must be transported to a recognised waste disposal facility.

Schedule

Ongoing, during the prospecting period.

Effluents

Any effluents or waste containing oil, grease or other industrial substances must be collected in a suitable container and removed from the site, either for resale, recycling or for appropriate disposal at a recognised facility.

Schedule

Ongoing, during the prospecting period.

Access to drill sites

The project manager will flag the most appropriate access route to each drill site. Drill site access tracks shall be rehabilitated, as far as is practicable, to their original state. A map showing the proposed sites for the second phase of activity must be submitted to the DMRE for approval before the second phase of drilling commences.

Schedule

Peg positions of borehole sites prior to commencement of drilling operations. Vehicle access requirements are ongoing, during each drilling phase.

Drilling

The following procedures at each drilling site must be complied with:

- Every effort must be made to minimise the area needed at each drilling site.
- Vegetation should not be cut or trimmed unless absolutely essential.
- The area that was disturbed by the drilling operation at each site shall be rehabilitated, as far as is practicable, to its original state as soon as the drilling is completed.
- Photographs, for monitoring purposes, should be taken before drilling commences and after each drilling site has been rehabilitated. These photographs should be included in the required Performance Assessment Reports.

Schedule

Ongoing, during the prospecting period.

Heritage Resources

If any heritage resources, including graves or human remains, are encountered these should be reported to responsible authorities immediately and areas where they occur must be fenced out.

Windblown sand and dust

During prospecting operations all reasonable measures must be taken to minimise the generation of dust and to prevent windblown sand. These measures include:

- Removal or cutting of lowveld vegetation shall be avoided unless absolutely essential.
- Vehicles should not exceed 40 km/hour along farm roads.

Schedule

Ongoing, during the prospecting period.

Noise

The noise levels on the site should be limited by taking the following measures:

- Vehicles and equipment should be regularly maintained.
- Silencers should be installed and maintained on machinery, trucks and prospecting equipment.
- No loud music should be played in the prospecting area.

Schedule

Ongoing, during the prospecting period.

Rehabilitation

If the access tracks to the drill sites and the drill sites themselves result in new patches of exposed earth, then it will be necessary to re-establish a protective vegetative cover over these areas. This can be achieved by contracting labour to manually cut and prune branches from the local shrubs and spread these over the area to be rehabilitated. Seeds from these branches will fall onto the ground. The spread cut branches will hold the topsoil and sand in place (i.e. protect it from erosion), help to retain moisture in the soil and also initially protect the seedlings of germinating plants.

Schedule

Rehabilitation of the drilling sites – immediately after each drilling phase.

Environmental Related Emergencies and Remediation

The Company will operate on the principle that “prevention is better than cure” and so will institute procedures to reduce the risk of emergencies taking place. These will include ensuring that all contracts specify that the contractor is required to comply with all the environmental measures specified in this EMPR, environmental awareness training, on-going risk assessment and emergency preparedness.

Emergency telephone numbers

All employees shall have the telephone numbers of emergency services, including the local ambulance and firefighting service. All employees must be made aware of procedures to be followed during the environmental awareness training course.

Fire

The Company shall ensure that there is basic firefighting equipment available on Site at all times. This shall include at least two rubber beaters and at least one fire extinguisher. The Company shall advise the relevant authority of a fire as soon as one starts and shall not wait until the fire is out of control.

Hydrocarbon spills

The Company shall ensure that all employees are aware of the procedures to be followed for dealing with hydrocarbon spills. The Company shall ensure that the necessary materials and equipment for dealing with hydrocarbon spills and leaks is available on Site at all times.

The Company shall ensure that there is always a supply of absorbent material readily available to absorb/ breakdown and where possible is designed to encapsulate minor hydrocarbon spillage. The quantity of such materials shall be able to handle a minimum of 200 l of hydrocarbon liquid spill.

There are a number of different products on the market, which can be used as absorbents and encapsulators of hydrocarbons. The following are examples of these products:

- *Spill-Sorb*
- Drizzit
- Enretech
- Peat Moss

In the event of a significant hydrocarbon spill, the following procedure is required:

- The source of the spillage shall be isolated
- The spillage must be contained using sand berms, sandbags, pre-made booms, sawdust or absorbent materials.
- The area shall be cordoned off, secured and made safe.
- If a serious spill has occurred in a sensitive environment, then the Department of Environmental Affairs and Development Planning: Directorate Pollution & Waste Management must be notified.

Treatment and remediation of spill areas shall be undertaken to the satisfaction of the Project Manager. Remediation may include in-situ bioremediation using appropriate products (e.g. Enretech-1 and / or the removal of the spillage together with the contaminated soil and the disposal at a recognised facility.

15. Motivation where no alternative sites were considered.

Since exploration is temporary in nature no permanent structures will be constructed, Negotiations and agreements will be made with the farm owners to use any existing infrastructure like access roads and their farmhouses.

16. Statement motivating the alternative development location within the overall site.

(Provide a statement motivating the final site layout that is proposed)

As is clear from the information provided, each of the phases is dependent on the results of the preceding phase. The location and extent of drilling will be determined based on information derived from the desktop investigations and surveys. An estimated number and extend have been provided, but this will be finalised.

Since exploration is temporary in nature no permanent structures will be constructed, Negotiations and agreements will be made with the farm owner to use any existing infrastructure like access roads, farmhouses and other things like coreshed.

17. 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 ere 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.)

In order to identify the potential impacts associated with the proposed prospecting activities the following steps were undertaken:

- Landowner and stakeholder consultation, Environmental assessment conducted for neighbouring projects.
- A detailed desktop investigation was undertaken to determine the environmental setting in which the project is located. Based on the desktop

investigations various resources were used to determine the significance and sensitivity of the various environmental considerations. The desktop investigation involved the use of:

- South African National Biodiversity Institute (SANBI) Biodiversity
- Geographic Database LUDS system
- Geographic Information System base maps
- Municipal Integrated Development Plan and Spatial Development Framework.
- Site visits conducted in July 2021. The site visit was used to ground truth the desktop information and do consultation.
- The rating of the identified impacts was undertaken in a quantitative manner as provided in this document. The ratings are undertaken in a manner to calculate the significance of each of the impacts. The EAP also assesses the outcomes of the calculation to determine whether the outcome reflects the perceived and actual views.
- The identification of management measures is done based on the significance of the impacts and measures that have considered appropriate and successful, specifically as Best Practical and Economical Options.

18. Assessment of each identified potentially significant impact and risk

(This section of the report must consider all the known typical impacts of each of the activities (including those that could or should have been identified by knowledgeable persons) and not only those that were raised by registered interested and affected parties).

NAME OF ACTIVITY (E.g. For prospecting – drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. For mining,- excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	POTENTIAL IMPACT (Including the potential impacts for cumulative impacts) (e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air pollution etc....etc...)	ASPECTS AFFECTED	PHASE In which impact is anticipated (e.g. Construction, commissioning, operational Decommissioning, closure, post-closure)	SIGNIFICANCE if not mitigated Pos High (+12-16), Pos Medium (+6 – 11), Pos Low (+1-5), No impact (0), Neg Low (-1-5), Neg Medium (-611), Neg High (-12-16)	MITIGATION TYPE (modify, remedy, control, or stop) through (e.g. noise control measures, stormwater control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activity etc. etc) E.g. Modify through alternative method. Control through noise control Control through management and monitoring through rehabilitation..	SIGNIFICANCE if mitigated Pos High (+12-16), Pos Medium (+6 – 11), Pos Low (+15), No impact (0), Neg Low (-1-5), Neg Medium (-611), Neg High (-12-16)
Ground / Airborne Surveys	Poor access control	Loss of livestock's	Phase 1	5	Access control measures Consultation with landowner	5
Data collection & assessment	None	Not applicable	Phase 2	0	No mitigation required	0
Data assessment	None	Not applicable	Phase 2	0	No mitigation required	0
Site Camp establishment	None	Not applicable	Phase 3	0	No mitigation required	0

Drilling	Noise	Animals and people	Prospecting Phase 3	7	Noise Control. Ensure vehicles and equipment and maintained. Silencers should be fitted on all engines.	5
Drilling	Surface Disturbance	Animals, Environment	Prospecting Phase 3	10	Rehabilitate each site as soon as the drilling is completed. Avoid significant vegetation such as trees and large shrubs Raised blade clearing will be conducted to minimize disturbance and aid rehabilitation efforts Fire emergency procedure will be developed to contain and minimise destruction of flora and faunal habitat which may result from fire	7
Driving	Air pollution	Animals, people,	Prospecting Phase 3	7	Establish EMPr procedures to	5

		Environment			minimise the generation of dust. Ensure vehicles drive slowly. Comply with traffic regulations. Keep to speed limits. Ensure compliance with the EMPr.	
Drilling	Ground water pollution	Animals, people	Prospecting Phase 3	Medium	Establish EMPr procedures to minimise hydrocarbon spills.	Low
Accommodation and Site camp	Solid Waste	Animals, people and environment	Prospecting Phase 3	Low	Ensure compliance with the EMPr. Include in environmental awareness training. Workers will not stay overnight at the site.	Low
Access roads	Soil compaction resulting from repeated use of access roads to drill sites	Loss of soil resources	Phase 3	9	Where track clearing is necessary, raised blade clearing be conducted to minimize disturbance and aid rehabilitation efforts As part of rehabilitation, all compacted roads and drill pads will be ripped and revegetated	6

Access roads	Potential destruction of unknown heritage resources	Loss of Cultural and/or Heritage Significant	Phase 3	5	Prior to the establishment of access roads or drill pads, a heritage assessment will be conducted on the selecting drilling sites and access roads. It is anticipated that limited to no heritage resources will be found due to the areas altered and agricultural activities together with game farming.	4
GIS & analytical desktop studies	None identified		Phase 4	0	No mitigation required	0

The supporting impact assessment conducted by the EAP must be attached as an appendix, marked **Appendix 3**

19. Summary of specialist reports.

(This summary must be completed if any specialist reports informed the impact assessment and final site layout process and must be in the following tabular form):-

LIST OF STUDIES UNDERTAKEN	RECOMMENDATIONS OF SPECIALIST REPORTS	SPECIALIST RECOMMENDATIONS THAT HAVE BEEN INCLUDED IN THE EIA REPORT (Mark with an X where applicable)	REFERENCE TO APPLICABLE SECTION OF REPORT WHERE SPECIALIST RECOMMENDATIONS HAVE BEEN INCLUDED.
Soil Study	<p>The soils within the area have the dominant structureless soils and undifferentiated clays in other parts of the prospecting farms.</p> <p>The land use on the investigation site is covered largely by uncategorized land use type, degraded land, waterbodies, and cultivated land.</p> <p>The coal, pseudocoal and torbanite/oil shale prospecting infrastructure will have less impact on soils and footprint will be minimal.</p>	X	Part A, Section b

	<p>It is anticipated that the coal, pseudocoal and torbanite/oil shale prospecting activities will not lead to severe loss of soils and degradation of agricultural potential at a large scale.</p> <p>Rehabilitation must be done after the period of coal and pseudocoal prospecting activities cease.</p> <p>And all the wetlands and non-perennial rivers will be buffered as "no go" area preferably a 100m buffer will apply</p> <p>No washing of any mechanical equipment's or vehicles should be allowed 100m from the water resources and on site.</p> <p>The core logs of boreholes with coal and pseudocoal material should be cleared from the ground immediately after logging by the geologists to prevent washing and leaching to the water resources during precipitation events.</p>		
Wetland Delineation	<p>All wetlands and non-perennial streams of increased ecological importance and sensitivity should be considered during all phases of the development.</p> <p>Access to the site should be limited to a single access entry point and access to the remainder of the wetland features should be prohibited to prevent compaction of soils, loss of vegetation and increased erosion.</p> <p>Access into adjacent wetlands and rivers, particularly by vehicles, is to be strictly controlled.</p> <p>All spills must be cleaned up and treated accordingly.</p> <p>Ensure that permanent, seasonal and temporary wetland zone as well as riparian zones functionality is maintained through provision of measures to ensure that soil wetting conditions are maintained.</p>	X	Part A, Section b
Hydrological Study	<p>It can be concluded that the prospecting of Coal, Pseudocoal and Torbanite/Oil Shale will cause minimal impact on the water resources. The prospecting right activity should take place during dry seasons where the water percentages in the surrounding streams and wetlands are very low.</p> <p>Drilling activity should not be conducted near these water resources, the exploration geologists will be advised to drill and sample away from rivers and wetlands on site.</p>	X	Part A, Section b

	<p>Extreme caution should be taken during prospecting, owing to the perennial rivers (UMhlatuze River) and non-perennial rivers and the Channelled valley-bottom wetlands, existing within the project area. No washing of any mechanical equipment's or vehicles will be allowed near the water resources.</p> <p>All the wetlands and non-perennial streams will be buffered as "no go" area preferably a 1 km buffer will apply.</p>		
Basic Hydrogeological Study For	<p>It can be concluded that the prospecting activity will cause minimal impact on the water resources. The prospecting right activity should take place during dry seasons where the water percentages in the surrounding streams and wetlands are exceptionally low.</p> <p>Drilling activity should not be conducted near these water resources, the exploration geologists will be advised to drill and sample away from rivers and wetlands on site to avoid water contamination.</p> <p>The exploration boreholes should be cased during drilling and properly rehabilitated after drilling.</p> <p>Extreme caution should be taken during prospecting, owing to the non-perennial river and numerous wetlands existing within and nearby the project area. No washing of any mechanical equipment's or vehicles will be allowed near the water resources.</p> <p>All the wetlands and non-perennial rivers will be buffered as no go area preferably a 100m buffer will apply.</p> <p>The core logs of boreholes with mineral of interest should be cleared from the ground immediately after logging by the geologists to prevent washing and leaching to the water resources during rainfall</p>	X	Part A, Section b

Attach copies of Specialist Reports as appendices (**Refer to appendix 6**)

20. Environmental impact statement

(i) Summary of the key findings of the environmental impact assessment;

The majority of the prospecting activities are non-invasive and hence will have very low to negligible environmental or social impact. The invasive activities that entail the drilling of approximately 15 exploration holes will have a minimal environmental and social impact as the whole drill area will be confined to a space of 0.9 hectares. This needs to be viewed in the context of the entire prospecting license area under application, which covers just 1682.58Ha. The proposed drilling method is Air flush which requires no water to operate. According to the Screening report, the area is:

Theme	Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Agriculture Theme	X			
Animal Species Theme		X		
Aquatic Biodiversity Theme	X			
Archaeological and Cultural Heritage Theme		X		
Civil Aviation Theme		X		
Defence Theme				X
Paleontology Theme	X			
Plant Species Theme			X	
Terrestrial Biodiversity Theme				X

With reference to the above results, it was clearly deduced from the maps that the area is sensitive on certain parts of the farm for each category which falls under highly/high or medium sensitive. The area has been chosen to conduct the drilling process bearing in mind the outcomes of the screening report and the fact that the activities of drilling results into minimal impact. Section where according to screening report showcases that they are high sensitive, it will be marked as a no-go area to ensure no heritage, palaeontology, terrestrial and aquatic biodiversity is negatively impacted.

The proposed prospecting operation will not affect any existing alternative land uses on the property or on adjacent property or non-adjacent property. The following actions are subject to the proposed mitigation measures and require monitoring:

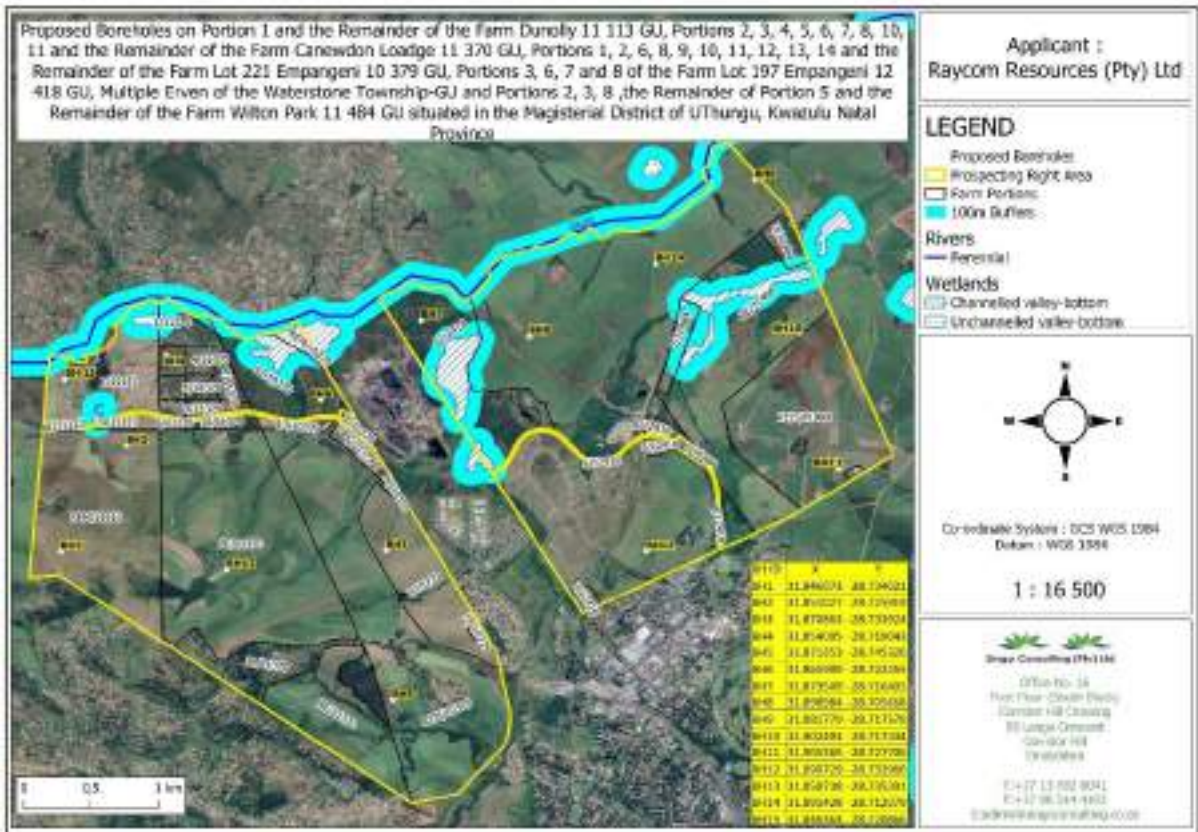
- The clearing of vegetation
- The storage of hydrocarbon based materials on site
- On-site waste management

- The creation of roads/tracks
- The removal of storage and soil
- The traversing of vehicles through populated areas within the prospecting area
- Groundwater: Monitor the water quality of the boreholes
- Surface Water: Monitor water quality of the stream and stream flow
- Monitor the game farm through entrance making of register of all drillers and being recognised by landowners at each farm.

Monitoring of the required mitigation measures is to take place on site daily by the site geologist. Annual monitoring audits are to take place by an appointed independent environmental assessment practitioner to compile the required annual environmental compliance report required by the DMRE.

(ii) 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. Attached as **Appendix 4**



(iii) Summary of the positive and negative impacts and risks of the proposed activity and identified alternatives;

Table 20: Summary of positive and negative impacts

Proposed Activity	Potential Impacts
Desktop Study	No impacts on site
Airborne / Ground Geophysics	<ul style="list-style-type: none"> • Low impacts from short-term staff and vehicle access to the site, • interfering with the animal grazing paddocks • managing fences and gates • Livestock/ wild animals falling into dug trenches. • Creation of Employment

Drilling	<ul style="list-style-type: none"> • Access tracks • Disturbance of vegetation and topsoil • Oil & fuel spills • Noise • Labour issues • Litter • Possible discovery of fossils • Creation of Employment
Sample processing / evaluation / decision making	No impacts on site.
Rehabilitation	Replacing topsoil, covering with brushwood etc

The proposed activities have very low significance since these are short term activities. The probability of occurrence of an impact was determined and most of these activities can be controlled and impacts can be reduced or avoided. Generally prospecting activities have low impact on the environment as they utilize a small space from the applied extent. The planned activities negative impacts can be controlled and avoided or minimised therefore the layout does not require revision. Mitigation measures will be used to control any potential impact. The area being it a sensitive area, drilling positions have been planned on spaces that will not evolve uncontrollable impacts.

21. 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 objectives of the EMPr will be to:

- Provide sufficient information to strategically plan the prospecting activities as to avoid unnecessary social and environmental impacts.
- Provide sufficient information and guidance to plan prospecting activities in a manner that would reduce impacts (both social and environmental) as far as practically possible.
- Ensure an approach that will provide the necessary confidence in terms of environmental compliance.

- Provide a management programme that is effective and practical for implementation. Through the implementation of the proposed mitigation measures it is anticipated that the identified social & environmental impacts can be managed and mitigated effectively. Through the implementation of the mitigation and management measures it is expected that:
 - Noise generation can be managed through consultation and restriction of n operating hours and by maintaining equipment and applying noise abatement equipment if necessary;
 - Dust fall can be managed by application of wet suppression on exposed surfaces and use of water during drilling, however in the method proposed no enormous dust is anticipated, thus no wet suppression is required or dust suppression. Speed limit will be maintained to ensure dust is minimal due to vehicle movement.
 - Soil disturbance and clearance of vegetation at drill pad areas will be limited to the absolute minimum required and disturbed areas will be re-vegetated with locally indigenous species as soon as possible.
 - Animal life is protected and preserved at all times and the prospecting activities has minimal disturbance to the surrounding habitat with supervision from landowners especially in the game farm.
 - Social friction with landowners can be managed by regular engagement with the landowner and the entering into an access agreement with the landowner.

Monitoring of the required mitigation measures is to take place on site daily by the site geologist. Annual monitoring audits are to take place by an appointed independent environmental assessment practitioner to compile the required annual environmental compliance report required by the DMRE.

The Company will operate on the principle that “prevention is better than cure” and so will institute procedures to reduce the risk of emergencies taking place. These will include ensuring that all contracts specify that the contractor is required to comply with all the environmental measures specified in this EMPr, environmental awareness training, on-going risk assessment and emergency preparedness.

All employees shall have the telephone numbers of emergency services, including the local ambulance and firefighting service. All employees must be made aware of procedures to be followed during the environmental awareness training course.

22. Aspects for inclusion as conditions of Authorisation.

Any aspects which must be made conditions of the Environmental Authorisation

Maintain a minimum 500 m buffer from any infrastructure or dwelling; The Landowner should be engaged at least 1 month prior to any site activities being undertaken once drill sites are known; and a map detailing the drilling locations should be provided to the landowner as well as the DMR prior to commencement of prospecting activities.

The company should comply with all environmental legislation. Specific aspects to be adhered to from environmental legislation include; National Environmental Management Act, Act 107 of 1998 (NEMA), Minerals and Petroleum Resources Development Act, Act 28 of 2002 (MPRDA), National Water Act, Act 36 of 1998 (NWA) and Conservation of Agricultural Resources Act, Act No. 43 of 1983 (CARA)

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

(Which relate to the assessment and mitigation measures proposed)

It is assumed that the description of the proposed project, provided by the applicant is sufficient for providing the authorities with the right information for understanding the proposed project.

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

I. Reasons why the activity should be authorized or not.

It is the opinion of the EAP that the proposed prospecting activities should be authorised. The environmental impacts associated with the limited drilling activities are minimal provided that the proposed mitigation is implemented; The spatial extent of the physical impact is less than 0.9Ha for the whole drill site over a prospecting right area of more than 1682.58 ha, 15 drill sites will be established in total throughout the duration of the drilling programme; With appropriate care and consideration the

impacts resulting from drilling can be suitably avoided, minimised or mitigated; With implementing the appropriate rehabilitation activities, the impacts associated with the drilling activities can be reversed; and Monitoring of the required mitigation measures is to take place on site daily by the site geologist. Annual monitoring audits are to take place by an appointed independent environmental assessment practitioner to compile the required annual environmental compliance report required by the DMRE.

Without implementation of prospecting activities the knowledge concerning the potential mineral resource within the prospecting right area will not be confirmed.

II. Conditions that must be included in the authorisation

The company should comply with all environmental legislation. Maintain a minimum 500m buffer from any infrastructure or dwelling; the landowner should be engaged (re-consulted) at least 1 month prior to any site activities being undertaken once drill sites are known; a map detailing the drilling locations should be provided to the landowners as well as the DMRE prior to commencement of prospecting activities. Record must be kept of the implementation of the EMPr measures and monitoring of the efficiency of the implemented measures; and a suitable closure plan must be submitted to show sufficiently providence for the avoidance, management and mitigation of environmental impacts associated with the decommissioning of the proposed activities.

25. Period for which the Environmental Authorisation is required.

The authorisation is required for the duration of the prospecting right which is an initial 5 years plus a potential to extend the right by an additional 3 years. Therefore, a total period of 8 years is required.

26. Undertaking

Confirm that the undertaking required to meet the requirements of this section is provided at the end of the EMPr and is applicable to both the Basic assessment report and the Environmental Management Programme report.

Confirmed.

27. Financial Provision

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

A financial provision of approximately, **R67 519.00** which includes rehabilitation activities will be made available by Raycom Resources . The applicant undertakes to provide financial provision through funding from the investors of Raycom Resources .

CALCULATION OF THE QUANTUM



Applicant: **Nokuthula Nkosi** Ref No.: **DMRE REF: KZN 30/5/1/1/2/11025PR**
 Evaluator: **Nokuthula Nkosi** Date: **Jul-21**

No.	Description	Unit	A	B	C	D	E=A*B*C*D
			Quantity	Master Rate	Multiplication factor	Weighting factor 1	Amount (Rands)
1	Dismantling of processing plant and related structures (including overland conveyors and powerlines)	m3	0	17,14	1	1	0
2 (A)	Demolition of steel buildings and structures	m2	0	238,71	1	1	0
2(B)	Demolition of reinforced concrete buildings and structures	m2	0	351,79	1	1	0
3	Rehabilitation of access roads	m2	300	42,72	1	1	12816
4 (A)	Demolition and rehabilitation of electrified railway lines	m	0	414,61	1	1	0
4 (A)	Demolition and rehabilitation of non-electrified railway lines	m	0	226,15	1	1	0
5	Demolition of housing and/or administration facilities	m2	0	477,42	1	1	0
6	Opencast rehabilitation including final voids and ramps	ha	0	242984,15	1	1	0
7	Sealing of shafts adits and inclines	m3	0	128,15	1	1	0
8 (A)	Rehabilitation of overburden and spoils	ha	0	166847,44	1	1	0
8 (B)	Rehabilitation of processing waste deposits and evaporation ponds (non-polluting potential)	ha	0	207805,47	1	1	0
8 (C)	Rehabilitation of processing waste deposits and evaporation ponds (polluting potential)	ha	0	603565,59	1	1	0
9	Rehabilitation of subsided areas	ha	0	139709,6	1	1	0
10	General surface rehabilitation	ha	0,9	132171,31	0,1	1	11895,4179
11	River diversions	ha	0	132171,31	1	1	0
12	Fencing	m	0	150,77	1	1	0
13	Water management	ha	0	50255,25	1	1	0
14	2 to 3 years of maintenance and aftercare	ha	0	17589,34	1	1	0
15 (A)	Specialist study	Sum	0	0	1	1	0
15 (B)	Specialist study	Sum	0	0	1	1	0
Sub Total 1							24711,4179
1	Preliminary and General		2965,370148		weighting factor 2		2965,370148
2	Contingencies			2471,14179	1		2471,14179
Subtotal 2							30147,93
VAT (15%)							37371,45
Grand Total							67519

SIGN **Nokuthula Nkosi**
 DATE **2021/07/05**

a. Explain how the aforesaid amount was derived.

The drilling contractor will be responsible for rehabilitating the drill pad once the drilling activities have been completed at each exploration hole. The financial guarantee was calculated using the DMRE official financial quantum calculator. This information has been provided in the Prospecting Work Programme that was submitted to the DMRE.

CALCULATION OF THE QUANTUM



Applicant:
Evaluator:

Nokuthula Nkosi

Ref No.:
Date:

DMRE REF: KZN 30/5/1/2/11025PR

Jul-21

No.	Description	Unit	A	B	C	D	E=A*B*C*D
			Quantity	Master Rate	Multiplication factor	Weighting factor 1	Amount (Rands)
1	Dismantling of processing plant and related structures (Including overland conveyors and powerlines)	m3	0	17,14	1	1	0
2 (A)	Demolition of steel buildings and structures	m2	0	238,71	1	1	0
2(B)	Demolition of reinforced concrete buildings and structures	m2	0	351,79	1	1	0
3	Rehabilitation of access roads	m2	300	42,72	1	1	12816
4 (A)	Demolition and rehabilitation of electrified railway lines	m	0	414,61	1	1	0
4 (A)	Demolition and rehabilitation of non-electrified railway lines	m	0	226,15	1	1	0
5	Demolition of housing and/or administration facilities	m2	0	477,42	1	1	0
6	Opencast rehabilitation including final voids and ramps	ha	0	242984,15	1	1	0
7	Sealing of shafts adits and inclines	m3	0	128,15	1	1	0
8 (A)	Rehabilitation of overburden and spoils	ha	0	166847,44	1	1	0
8 (B)	Rehabilitation of processing waste deposits and evaporation ponds (non-polluting potential)	ha	0	207805,47	1	1	0
8 (C)	Rehabilitation of processing waste deposits and evaporation ponds (polluting potential)	ha	0	603565,59	1	1	0
9	Rehabilitation of subsided areas	ha	0	139709,6	1	1	0
10	General surface rehabilitation	ha	0,9	132171,31	0,1	1	11895,4179
11	River diversions	ha	0	132171,31	1	1	0
12	Fencing	m	0	150,77	1	1	0
13	Water management	ha	0	50255,25	1	1	0
14	2 to 3 years of maintenance and aftercare	ha	0	17589,34	1	1	0
15 (A)	Specialist study	Sum	0	0	1	1	0
15 (B)	Specialist study	Sum	0	0	1	1	0
Sub Total 1							24711,4179
1	Preliminary and General		2965,370148		weighting factor 2 1		2965,370148
2	Contingencies			2471,14179			2471,14179
Subtotal 2							30147,93
VAT (15%)							37371,45
Grand Total							67519

SIGN
DATE

Nokuthula Nkosi
2021/07/05

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

(Confirm that the amount, is anticipated to be an operating cost and is provided for as such in the Mining work programme, Financial and Technical Competence Report or Prospecting Work Programme as the case may be).

Work will be approved on a phase-by-phase basis, dependent on the results obtained in the previous phase i.e. although prospecting work may be provided for financially in the budget for a specific year, it will only take place if justified. The amount is also reflected in the Prospecting Work Programme submitted to the DMRE which amount to R1 117 000.00.

28. Specific Information required by the competent Authority

a. 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**

Current land uses inside the prospecting area such as sugar cane farming, grass harvesting and free moving of horses may be temporarily impacted through the presence of the fenced areas that drill rigs will operate within. These are however, small areas, approximately 30m x 20m in total. These areas will be rehabilitated post drilling activities and the areas will once again become available for grazing and other uses. The current access roads are useful, however creations will be made.

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).

Whilst no heritage resources have been identified within the proposed prospecting area care will be taken to avoid any sensitive heritage resources that may otherwise be identified during the prospecting. Where graves or fossils are identified proposed boreholes will be moved to avoid features of this type. If fossils or graves are discovered, the relevant authorities will be immediately notified and drilling will be stopped in this area unless the heritage areas are closer to whereby where they occur can be demarcated and declared as a no-go area. The area does threatened ecosystems or critical biodiversity, however no sensitive parts will be negatively affected by the drilling procedures owing to the small scale of the prospecting activity. The only potential negative impact is related to the proposed borehole sites that will need to be cleared and possibly access roads to some of these sites. These should be placed on previously disturbed land or tracks. Any natural vegetation should be avoided. The location of the boreholes/pegging must be done.

29. 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 4**).

The proposed site was selected based on extensive research and also following on information from previous and current prospecting as well as mining activities around

the area. The area is known for coal resources and there are mines currently mining close to the application area (The Richards Quarry) and also the Mnisi coal Mine. In terms of the technologies proposed, the proposed prospecting has been chosen based on the history and current state of coal in the area. The prospecting activities proposed in the Prospecting Works Programme (PWP) is dependent on the preceding phase as previously discussed, therefore no alternatives are indicated, but rather a phased approach of trusted prospecting techniques.

PART B

ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT

1) Draft environmental management programme.

a) **Details of the EAP,**

(Confirm that the requirement for the provision of the details and expertise of the EAP are already included in PART A, section 1(a) herein as required).

Details of EAP are included in PART A section 1(a).

b) **Description of the Aspects of the Activity**

(Confirm that the requirement to describe the aspects of the activity that are covered by the draft environmental management programme is already included in PART A, section (1)(h) herein as required).

It is confirmed that the requirement to describe the aspects of the activity that are covered by the environmental management programme which is already included in PART A SECTION (1)(h).

c) **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 any areas that should be avoided, including buffers)

Exploration is a temporal activity thus no permanent structures will be erected, however a general layout is enclosed in Figure 4.

d) **Description of Impact management objectives including management statements.**

I. Determination of closure objectives.

(ensure that the closure objectives are informed by the type of environment described)

The following section details the goals and objectives that Raycom Resources will aim to achieve. It includes both a commitment to ensure legal compliance and then highlights the goals and objective for those impacts which are deemed most significant for exploration.

Environmental Legislation

To comply with all environmental legislation. Specific aspects to be adhered to from environmental legislation include;

National Environmental Management Act, Act 107 of 1998 (NEMA)

As the NEMA is the cornerstone of all environmental legislation, the management measures implemented by the Raycom Resources will strive to adhere to the principles of NEMA:

- That the disturbance of ecosystems and loss of biological diversity are avoided, or, where they cannot be altogether avoided, are minimised and remedied;
- that pollution and degradation of the environment are avoided, or, where they cannot be altogether avoided, are minimised and remedied;
- that the disturbance of landscapes and sites that constitute the nations cultural heritage is avoided, or where it cannot be altogether avoided, is minimised and remedied;
- that waste is avoided, or where it cannot be altogether avoided, minimised and reused or recycled where possible and otherwise disposed of in a responsible manner;
- that the use and exploitation of non-renewable natural resources is responsible and equitable, and takes into account the consequences of the depletion of the resource;
- that a risk averse and cautious approach is applied, which takes into account the limits of current knowledge about the consequences of decisions and actions; and
- that negative impacts on the environment and on people's environmental rights be anticipated and prevented, and where they cannot be altogether prevented, are minimised and remedied.

Environmental management must be integrated, acknowledging that all elements of the environment are linked and interrelated, and it must take into account the effects of decisions on all aspects of the environment and all people in the environment by pursuing the selection of the best practicable environmental option.

I. Volumes and rate of water use required for the operation.

No water will be required for drilling purposed as the method to be adopted is Air flush drilling method.

II. Has a water use licence has been applied for?

No water licence has been applied for.

**III. Impacts to be mitigated in their respective phases
Measures to rehabilitate the environment affected by the undertaking of any listed activity**

ACTIVITIES	PHASE	SIZE AND SCALE	MITIGATION MEASURES	COMPLIANCE STANDARDS	WITH TIME PERIOD FOR IMPLEMENTATION
<p>(E.g. For prospecting - drill site, site camp, ablation facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc</p> <p>E.g. For mining,- excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablation, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)</p>	<p>(of operation in which activity will take place.</p> <p>State; Planning and design, Pre-Construction, Operational, Rehabilitation, Closure, Post closure).</p>	<p>disturbance or (volumes, tonnages and hectare m²)</p>	<p>(describe how each of the recommendations in herein will remedy the cause of pollution or degradation and migration of pollutants)</p>	<p>(A description of how each of the recommendations herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)</p>	<p>Describe the time period when the measures in the environmental management programme must be implemented. Measures must be implemented when required.</p> <p>With regard to Rehabilitation specifically this must take place at the earliest opportunity. .With regard to Rehabilitation, therefore state either:-</p> <p>..</p> <p>Upon cessation of the individual activity or. Upon the cessation of mining, bulk sampling or alluvial diamond prospecting as the case may be.</p>
<p>Site Office and core shed</p>	<p>Prospecting Phase 3</p>	<p>N/A</p>	<p>No permanent structures for offices and coreshed will be put on site.</p>	<p>N/A</p>	<p>N/A</p>

Accommodation	Prospecting Phase 3	N/A	In order to minimise impacts in the prospecting area, no camp site will be established. All employees will stay outside prospecting area. The employees will drive to the site every day when drilling operations are in progress. A security company may be contracted to protect the drilling equipment overnight or over weekends if the drill contractors have a weekend off.	N/A	N/A
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IV Impact Management Outcomes

(A description of impact management outcomes, identifying the standard of impact management required for the aspects contemplated in paragraph ());

ACTIVITY (whether listed or not listed).	POTENTIAL IMPACT	ASPECTS AFFECTED	PHASE In which impact is anticipated	MITIGATION TYPE	STANDARD TO BE ACHIEVED
(E.g. Excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.).	(e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air pollution etc....etc...)		(e.g. Construction, commissioning, operational Decommissioning, closure, post closure)	(modify, remedy, control, or stop) through (e.g. noise control measures, storm-water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activity etc. etc) E.g. • Modify through alternative method. • Control through noise control	(Impact avoided, noise levels, dust levels, rehabilitation standards, end use objectives) etc.

				<ul style="list-style-type: none"> • Control through management and monitoring • Remedy through rehabilitation.. 	
Site Office and core shed	Physical surface disturbance	Visual	Post Closure	No construction on site. If need be to utilise existing building and agreement to be done with farmer	Impact avoided
Accommodation	Physical surface disturbance	Visual	Post Closure	No construction on site. If need be to utilise existing building and agreement to be done with farmer	Impact avoided
Site Establishment	Dust and Noise from Vehicles driving in veld to access the proposed drill site	Air	Operation	Noise control, Reduce dust by driving slow. Ensure vehicles and equipment are maintained. Silencers should be fitted on all engines.	Impact controlled SANS10103 NEM:AQA GNR827
Site Establishment	Carbon emissions due to internal combustion of fuel	Air	Operation	Ensure vehicles and equipment are maintained.	Impact controlled NEM:AQA GNR827
Drilling	Noise	Environmental nuisance	Operation	Ensure vehicles and equipment are maintained. Silencers should be fitted on all engines.	Impact controlled

Drill site	Removal of top soil for sump. Drainage surface disturbance	Biodiversity loss	Operations and Post Closure	<p>Revegetation needs to take place with topsoil that has the surrounding vegetation seedbanks.</p> <p>Badly damaged areas shall be fenced in to enhance rehabilitation. Areas to be rehabilitated must be planted with a mixture of local pioneer species indigenous to the area, as soon as the new growing season starts.</p> <p>To get the best results in a specific area, it is a good idea to consult with a vegetation specialist officer of the Dept of Agriculture or the local extension. Seed distributors can also give valuable advice as to the mixtures and amount of seed necessary to seed a certain area.</p> <p>Re-seeding, as well as fencing in of badly damaged areas, will always be at the discretion of the Environmental Control Officer and in compliance with EMPr.</p>	Impact controlled
Drill Site	Dust	Air pollution	Operation	Comply to dust control measures	Impact controlled
Drilling	Use of drilling machine	Ground water contamination	Operation and Post Closure	Put control measures by using air flush.	Impact controlled
Drilling	Failure of drill sludge control system	Surrounding environment, Ground water contamination	Operation	Establish EMPr procedures to minimise hydrocarbon spills and ensure you use a flush method.	Impact controlled
Drilling	Breakdown of machinery, oil spillages	Surrounding environment and water contamination	Operation	Establish EMPr procedures to minimise hydrocarbon spills.	Impact controlled

V Impact Management Actions

(B 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	MITIGATION TYPE	TIME PERIOD FOR IMPLEMENTATION	COMPLIANCE WITH STANDARDS
<p>whether listed or not listed.</p> <p>(E.g. Excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.).</p>	<p>(e.g. dust, noise, drainage surface disturbance, fly rock, surface water contamination, groundwater contamination, air pollution etc....etc...)</p>	<p>(modify, remedy, control, or stop) through (e.g. noise control measures, storm-water control, dust control, rehabilitation, design measures, blasting controls, avoidance, relocation, alternative activity etc. etc)</p> <p>E.g.</p> <ul style="list-style-type: none"> • Modify through alternative method. • Control through noise control • Control through management and monitoring <p>Remedy through rehabilitation..</p>	<p>Describe the time period when the measures in the environmental management programme must be implemented</p> <p>Measures must be implemented when required. With regard to Rehabilitation specifically this must take place at the earliest opportunity. .With regard to Rehabilitation, therefore state either:-..</p> <p>Upon cessation of the individual activity or.</p> <p>Upon the cessation of mining, bulk sampling or alluvial diamond prospecting as the case may be.</p>	<p>(A description of how each of the recommendations in 2.11.6 read with 2.12 and 2.15.2 herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)</p>

Site Office and core shed	Physical disturbance surface	No construction on site. If need be to utilise existing building and agreement to be done with farmer	N/A	N/A
Accommodation	Physical disturbance surface	No construction on site. If need be to utilise existing building and agreement to be done with farmer	N/A	N/A
Site Establishment	Dust and Noise from Vehicles driving in veld to access the proposed drill site	Noise control, Reduce dust by driving slow. Ensure vehicles and equipment are maintained. Silencers should be fitted on all engines.	Ongoing during activity	Raycom Resources will ensure that all employees, contractors, visitors comply with the EMPR
Site Establishment	Carbon emissions due	Ensure vehicles and equipment	Ongoing during activity	Raycom Resources will

	to internal combustion of fuel	are maintained.		ensure that all employees, contractors, visitors comply with the EMPr
Water	Affecting Okula and Mandozi	No water will be used during drilling	Monitoring ground water	Have annual checking's.
Drilling	Noise	Ensure vehicles and equipment are maintained. Silencers should be fitted on all engines.	Ongoing during activity	Raycom Resources will ensure that all Employees, contractors, visitors comply with the EMPr
Drill site	Removal of topsoil for sump. Drainage surface disturbance	Rehabilitate ground soon after drilling.	Upon cessation of individual activity	Raycom Resources will ensure that all Employees, contractors, visitors comply with the EMPr
Drill Site	Dust	Comply to dust control measures	Ongoing during activity	Raycom Resources will ensure that all Employees, contractors, visitors comply with the EMPR
Drilling	Use of air flush during drilling operations.	Put control measures	Ongoing during activity	Raycom Resources will ensure that all Employees, contractors, visitors comply with the EMPR

Drilling	No drill sludge control system due to method employed	Establish EMPR procedures to minimise hydrocarbon spills.	Ongoing during activity	Raycom Resources will ensure that all Employees, contractors, visitors comply with the EMPR
Drilling	Breakdown of machinery, oil spillages	Establish EMPR procedures to minimise hydrocarbon spills.	Ongoing during activity	Raycom Resources will ensure that all Employees, contractors, visitors comply with the EMPR

30. Financial Provision

(1) Determination of the amount of Financial Provision.

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

For a prospecting operation such as this, the primary closure and environmental objectives are to:

- Minimise the area to be disturbed and to ensure that the areas disturbed during the prospecting activities are rehabilitated and stable, as per the commitments made in the EMPR.
- Sustain the pre-prospecting land use.
- To record and communicate the results of the monitoring programme during decommissioning to the participating stakeholders.
- To receive an effective closure certificate (should the prospect indicate that the resource(s) would not support a sustainable mining operation).

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

The environmental objectives in relation to closure were consulted with affected parties. It was explained that should the prospecting yield negative results, then the end use for area will revert to its pre-prospecting land use. The end-use of the area will therefore not be changed by the prospecting operations.

However, should the prospecting operation yield positive results, then the farm could be subject to a mining right application and another more comprehensive Public Participation, Scoping, EIA and EMPR process. If a mining right is granted then the area will be rehabilitated according to the requirements of the approved Environmental Management Programme that would apply throughout the life of the mine.

(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 activities involved are for prospecting and will involve no permanent removal of soil and rock.

Should the prospecting yield negative results, then the end use for area will revert to its pre-prospecting land use. The end-use of the area will therefore not be changed by the prospecting operations.

However, should the prospecting operation yield positive results, then the farm could be subject to a mining rights application and another more comprehensive Public Participation, Scoping, EIA and EMPR process. If a mining right is granted then the area will be rehabilitated according to the requirements of the approved Environmental Management Programme that would apply throughout the life of the mine.

Table 21: Rehabilitation plan.

Aspect / Impact	Rehabilitation Measure	Monitoring Frequency & Responsibility
Removal of construction structures	<ul style="list-style-type: none"> • Clear and completely remove from site all construction plant equipment, storage containers, signage, temporary fencing, temporary services, fixtures and any other temporary works (excluding those already on the site); and • Ensure that all access roads utilised during construction (which are not earmarked for closure and rehabilitation) are returned (as far as possible) to their state prior to construction. 	Once off, Raycom Resources
Vegetation clearing/Replanting	<ul style="list-style-type: none"> • Remove any emerging alien and invasive vegetation to prevent further establishment; • All planting work is to be undertaken by suitably qualified personnel making use of the appropriate equipment; • Transplant during the winter (between April and September); and • Plant indigenous plants to minimise the spread of alien and invasive vegetation. 	When revegetation is done and in blooming season, Raycom Resources

Topsoil replacement	<ul style="list-style-type: none"> • Replace and redistribute stockpiled topsoil together with herbaceous vegetation, overlying grass and other fine organic matter in all disturbed areas of the prospecting site, including temporary access routes and roads. Replace topsoil to the original depth (i.e. as much as was removed prior to construction). • Prohibiting the use of topsoil suspected to be contaminated with the seed of alien vegetation .Alternatively, the soil is to be sprayed with specified herbicides. • Backfill planting holes with excavated material / approved topsoil, thoroughly mixed with weed free manure or 	Once off, Raycom Resources
	compost (per volume about one quarter of the plant hole), one cup of 2:3:2 fertiliser and an approved ant and termite poison.	
Waste and Rubble Removal	<ul style="list-style-type: none"> <input type="checkbox"/> Clear the site of all inert waste and rubble, including surplus rock, foundations and batching plant aggregates. <input type="checkbox"/> Remove from site all domestic waste and dispose of in the approved manner at a registered waste disposal site. 	Once off, Raycom Resources
Solid & Hazardous Waste	<ul style="list-style-type: none"> <input type="checkbox"/> Environmental Management Programme (EMPRR). <input type="checkbox"/> Dispose of all hazardous waste not earmarked for reuse, recycling or resale at a registered hazardous waste disposal site. <input type="checkbox"/> Remove from site all temporary fuel stores, hazardous substance stores, hazardous waste stores and pollution control sumps. Dispose of hazardous waste in the approved manner. <input type="checkbox"/> Do not hose oil or fuel spills into a storm water drain or sewer, or into the surrounding natural environment. 	Once off, Raycom Resources

Erosion protection	<input type="checkbox"/> Protect all areas susceptible to erosion and ensure that there is no undue soil erosion resultant from activities within and adjacent to the construction site. <input type="checkbox"/> Retain shrubbery and grass species wherever possible. <input type="checkbox"/> Perform regular monitoring and maintenance of erosion control measures.	After rainfall events
--------------------	--	-----------------------

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

The amount for rehabilitation is anticipated to be an operating cost and provided for in the Prospecting Work Programme. Drill site rehabilitation will be undertaken by the contract drilling company on completion of every borehole. This will include:

- The removal of all wastes generated on-site by the drilling activity.
- Backfilling of sumps, where applicable
- The ripping of cleared and compacted soils where this may have occurred; and
- The re-contouring of drill sites to resemble the topography similar to that prior to the commencement of drilling activities.
- Take photos of the site before prospecting commences and after prospecting.

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

The quantum of the financial provision required is therefore: **R 67 51.00**. The Company must annually update and review the quantum of the financial provision (*Regulation 54 (2)*). Table for calculations attached below.

CALCULATION OF THE QUANTUM



Applicant:
Evaluator:

Nokuthula Nkosi

Ref No.:
Date:

DMRE REF: KZN 30/5/1/1/2/111025PR

Jul-21

No.	Description	Unit	A	B	C	D	E=A*B*C*D
			Quantity	Master Rate	Multiplication factor	Weighting factor 1	Amount (Rands)
1	Dismantling of processing plant and related structures (including overland conveyors and powerlines)	m3	0	17,14	1	1	0
2 (A)	Demolition of steel buildings and structures	m2	0	238,71	1	1	0
2(B)	Demolition of reinforced concrete buildings and structures	m2	0	351,79	1	1	0
3	Rehabilitation of access roads	m2	300	42,72	1	1	12816
4 (A)	Demolition and rehabilitation of electrified railway lines	m	0	414,61	1	1	0
4 (A)	Demolition and rehabilitation of non-electrified railway lines	m	0	226,15	1	1	0
5	Demolition of housing and/or administration facilities	m2	0	477,42	1	1	0
6	Opencast rehabilitation including final voids and ramps	ha	0	242984,15	1	1	0
7	Sealing of shafts adits and inclines	m3	0	128,15	1	1	0
8 (A)	Rehabilitation of overburden and spoils	ha	0	166847,44	1	1	0
8 (B)	Rehabilitation of processing waste deposits and evaporation ponds (non-polluting potential)	ha	0	207805,47	1	1	0
8 (C)	Rehabilitation of processing waste deposits and evaporation ponds (polluting potential)	ha	0	603565,59	1	1	0
9	Rehabilitation of subsided areas	ha	0	139709,6	1	1	0
10	General surface rehabilitation	ha	0,9	132171,31	0,1	1	11895,4179
11	River diversions	ha	0	132171,31	1	1	0
12	Fencing	m	0	150,77	1	1	0
13	Water management	ha	0	50255,25	1	1	0
14	2 to 3 years of maintenance and aftercare	ha	0	17589,34	1	1	0
15 (A)	Specialist study	Sum	0	0	1	1	0
15 (B)	Specialist study	Sum	0	0	1	1	0
Sub Total 1							24711,4179
1	Preliminary and General		2965,370148	weighting factor 2 1			2965,370148
2	Contingencies			2471,14179			2471,14179
Subtotal 2							30147,93
VAT (15%)							37371,45
Grand Total							67519

SIGN
DATE

Nokuthula Nkosi
2021/07/05

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

Raycom Resources undertakes to provide financial provision and a Bank Guarantee will be the method of providing for the financial provision. The amount is anticipated to be an operating cost and provided for in the Prospecting Work Programme.

Table 22: Application Quantum Calculation

CALCULATION OF THE QUANTUM



Applicant:
Evaluator:

Nokuthula Nkosi

Ref No.:
Date:

DMRE REF: KZN 30/5/1/1/2/11025PR

Jul-21

No.	Description	Unit	A	B	C	D	E=A*B*C*D
			Quantity	Master Rate	Multiplication factor	Weighting factor 1	Amount (Rands)
1	Dismantling of processing plant and related structures (including overland conveyors and powerlines)	m3	0	17,14	1	1	0
2 (A)	Demolition of steel buildings and structures	m2	0	238,71	1	1	0
2(B)	Demolition of reinforced concrete buildings and structures	m2	0	351,79	1	1	0
3	Rehabilitation of access roads	m2	300	42,72	1	1	12816
4 (A)	Demolition and rehabilitation of electrified railway lines	m	0	414,61	1	1	0
4 (A)	Demolition and rehabilitation of non-electrified railway lines	m	0	226,15	1	1	0
5	Demolition of housing and/or administration facilities	m2	0	477,42	1	1	0
6	Opencast rehabilitation including final voids and ramps	ha	0	242984,15	1	1	0
7	Sealing of shafts adits and inclines	m3	0	128,15	1	1	0
8 (A)	Rehabilitation of overburden and spoils	ha	0	166847,44	1	1	0
8 (B)	Rehabilitation of processing waste deposits and evaporation ponds (non-polluting potential)	ha	0	207805,47	1	1	0
8 (C)	Rehabilitation of processing waste deposits and evaporation ponds (polluting potential)	ha	0	603565,59	1	1	0
9	Rehabilitation of subsided areas	ha	0	139709,6	1	1	0
10	General surface rehabilitation	ha	0,9	132171,31	0,1	1	11895,4179
11	River diversions	ha	0	132171,31	1	1	0
12	Fencing	m	0	150,77	1	1	0
13	Water management	ha	0	50255,25	1	1	0
14	2 to 3 years of maintenance and aftercare	ha	0	17589,34	1	1	0
15 (A)	Specialist study	Sum	0	0	1	1	0
15 (B)	Specialist study	Sum	0	0	1	1	0
Sub Total 1							24711,4179

1	Preliminary and General	2965,370148	weighting factor 2		2965,370148
			1		
2	Contingencies		2471,14179		2471,14179
Subtotal 2					30147,93

SIGN
DATE

Nokuthula Nkosi
2021/07/05

VAT (15%)		37371,45
Grand Total		67519

g) Mechanisms for monitoring compliance with and performance assessment against the environmental management programme and reporting thereon, including

- h) Monitoring of Impact Management Actions
- i) Monitoring and reporting frequency
- j) Responsible persons
- k) Time period for implementing impact management actions
- l) Mechanism for monitoring compliance

SOURCE ACTIVITY	IMPACTS REQUIRING MONITORING PROGRAMMES	FUNCTIONAL REQUIREMENTS FOR MONITORING	ROLES AND RESPONSIBILITIES (FOR THE EXECUTION OF THE MONITORING PROGRAMMES)	MONITORING AND REPORTING FREQUENCY and TIME PERIODS FOR IMPLEMENTING IMPACT MANAGEMENT ACTIONS
Drilling (Site Establishment)	The clearing of vegetation	Monitor daily	Geologist/ EAP	Daily by Geologist, Annually by independent environmental assessment practitioner to compile the required annual environmental compliance report required by the DMR
Drilling	The storage of hydrocarbon based materials on site	Monitor daily	Geologist/ EAP	Daily by Geologist, Annually by independent environmental assessment practitioner to compile the required annual environmental compliance report required by the DMR
Drilling	On-site waste management	Monitor Daily	Geologist/ EAP	Daily by Geologist, Annually by independent environmental assessment practitioner to compile the required annual environmental compliance report required by the DMR

Drilling	The creation of roads/tracks	Monitor daily	Geologist/ EAP	Daily by Geologist, Annually by independent environmental assessment practitioner to compile the required annual environmental compliance report required by the DMR
Drilling	The removal of	Monitor Daily	Geologist/ EAP	Daily by Geologist, Annually by

	storage and soil			independent environmental assessment practitioner to compile the required annual environmental compliance report required by the DMR
Drilling	Driving activities	Monitor Daily	Geologist/ EAP	Daily by Geologist, Annually by independent environmental assessment practitioner to compile the required annual environmental compliance report required by the DMR
Drilling	Groundwater: Monitor the water quality of the boreholes	Monitor Daily	Geologist/ EAP	Daily by Geologist, Annually by independent environmental assessment practitioner to compile the required annual environmental compliance report required by the DMR

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

Environmental audit report will be submitted annually.

i) Environmental Awareness Plan

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

All Employees must be provided with environmental awareness training to inform them of any environmental risks which may result from their work and the manner in which the risks must be dealt with in order to avoid pollution or the degradation of the environment.

employees should be provided with environmental awareness training before prospecting operations start. All new employees should be provided with environmental awareness training Induction courses will be provided to all employees by a reputable trainer.

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

No risks have been identified other than those that have been identified within this document, these are to be communicated to all contractors and all contractors are to be provided with a copy of the approved EMPR. Environmental training needs for each section should be identified and addressed to ensure environmental management is part of day-to-day operations. The environmental risk responsibilities guide the training requirements of each individual. The responsibility for each level of management according to the Integrated Risk Management and ISO14001 role descriptions are. Environmental training recommended for the different levels of management guide the training needs identification process. This is a minimum guideline, and any additional training can be added where section specific issues or high-risk items require training and awareness It is the responsibility of the line manager to ensure environmental training needs for individual staff members are identified, agreed to, facilitated and tracked.

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

The financial provision will be reviewed annually indicating work that would have been completed and money used for rehabilitation as required by the law.

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.

Signature of the environmental assessment practitioner:

Name of company:

Date:

-END-

Appendix 1: DMR letters



**mineral resources
& energy**

Department
Minerals Resources and Energy
REPUBLIC OF SOUTH AFRICA

Private Bag X 54300, Durban, 4001, 335 Arden Lombard Street, 3rd Floor Durban Bay House, Durban, Tel (031) 335 9660, Fax (031) 306 5801
Reference: K29 3029/11/021/023 FR Enquiries: Mr. Sandoa Njapfa Email address: Sandoa.njapfa@dmr.gov.za

REGISTERED MAIL

THE MANAGER

RAYCOM RESOURCES (PTY) LTD

P.O BOX 114

KYALANI

JOHANNESBURG

1684

Dear Sir/Madam

ACCEPTANCE OF AN APPLICATION FOR PROSPECTING RIGHT IN TERMS OF SECTION 16(4) OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT 28 OF 2002)

1. Please be informed that your application for Prospecting of Coal on Portion 1 and the Remainder of the Farm Dunolly No. 11 113-GU, Portions 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and the Remainder of the Farm Canewdon Lodge No. 11 370-GU, Portions 1, 2, 6, 8, 9, 10, 11, 12, 13, 14 and the Remainder of the Farm Lot 221 Empangeni No. 10 379-GU, Portions 3, 6, 7 and 8 of the Farm Lot 197 Empangeni No. 12 418-GU, Multiple Erven of the Waterstone Township-GU and Portions 2, 3, 8 the Remainder of Portion 5, and the Remainder of Farm Wilton Park No. 11 484-GU situated in the Magisterial District of UThungulu, is hereby accepted on the above mentioned properties, in terms of section 16 (2) of the Act
2. Take note that in light of the minimum requirements as stipulated on regulation 16 (1) and 16 (2) of the EIA Regulations, your application for an Environmental Authorisation was deemed incomplete as it was not accompanied by this

K29 3029/11/021/023 FR

Acceptance Of An Application For Prospecting Right In Terms Of Section 16 Of The Mineral And Petroleum Resources Development Act, (Act 28 Of 2002) To Prospect For Coal, Petroleum, Turbidity/Oil Shale On Portion 1 And The Remainder Of The Farm Dunolly No. 11 113-Gu, Portions 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 And The Remainder Of The Farm Canewdon Lodge No. 11 370-Gu, Portions 1, 2, 6, 8, 9, 10, 11, 12, 13, 14 And The Remainder Of The Farm Lot 221 Empangeni No. 10 379-Gu, Portions 3, 6, 7 And 8 Of The Farm Lot 197 Empangeni No. 12 418-Gu, Multiple Erven Of The Waterstone Township-GU And Portions 2, 3, 8 The Remainder Of Portion 5, And The Remainder Of Farm Wilton Park No. 11 484-Gu Situated In The Magisterial District Of UThungulu: Raycom Resource (Pty) Ltd: S/N

acceptance letter as per Regulation 16 (1) (ix) and considering that it is now completed by this acceptance letter, you are hereby required to submit the documents as stipulated on Regulation 19 (1) to 19 (8) of the EIA Regulation (only in cases where Basic Assessment Report is applicable or Regulation 21 (Scoping Report and Regulation 23 (Environmental Impact Report) (only in cases where applicable). All submission timeframes are effective from the dates of this acceptance letter.

3. Please take further note that in terms of section 16 (4) of the Act, you are required to: -

3.1 Upload unto the SAMRAD system one copy and submit three (03) hard copies of the requisite environmental reports as required by section 16 of the MPRDA within ninety (90) days from the date of this letter. (24th June 2021).

3.2 to consult in the prescribed manner with the landowner, lawful occupier and any interested and affected party including the Land Restitution Commission and include the result of such consultation in the relevant environmental reports to be submitted and uploaded on the SAMRAD system on or before 12th April 2021 (within 30 days from the date of this letter)

Please note that the consultation process referred to in paragraph 2.2 above does not imply issuing letters and requesting the affected parties to indicate whether they support your proposed project or not.

It includes among others an extensive process of giving and discussing the specific details of the proposed project, giving the I & A Parties an opportunity to table their comments, objection and support, it also involves your written responses and specific commitments made in dealing with the issues raised during the consultation.

Note that it is important to ensure that your consultation process is comprehensive so that your Environmental Impact Assessment and Environmental Management Plan can be informed by all potential impacts that your project may have.

K29 2019/11/27/11020 P#

Acceptance Of An Application For Prospecting Right In Terms Of Section 18 Of The Mineral And Petroleum Resources Development Act (Act 28 Of 2002) To Prospect For Coal, Psalobasil, Tantalite/Columbite On Portion 1 And The Remainder Of The Farm Dersely No. 11 113-Du, Portions 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 And The Remainder Of The Farm-Casselden Lodge No. 11 370-Du, Portions 1, 2, 6, 8, 9, 10, 11, 12, 13, 14 And The Remainder Of The Farm Lot 221 (Inqungeni No. 10 378-Du, Portions 3, 6, 7 And 8 Of The Farm Lot 197 Empangeni No. 12 416-Du, Multiple Eriens Of The Waterstone Township-Du And Portions 2, 3, 6 The Remainder Of Portion 5, And The Remainder Of Farm Willow Park No. 11 404-Du Situated In The Magisterial District Of UThungulu, Raymond Maseko (Pty) Ltd- SM

4. Should the land be owned by the communities or a Trust on behalf of the community, a proper and thorough consultation process must be engaged upon and a legitimate Tribal Resolution or consent must be obtained from the Traditional Authority / Council or Trust and be submitted with the results of consultation. *Should you need any assistance or guidance relating to the required consultation process & procedure in traditional institutions, please contact the District office of the Department of Cooperative Governance and Traditional Affairs in UThungulu District Municipality.*
5. Further note that the acceptance of your application does not grant you the right to commence with **prospecting activities**. It only signifies that your application will be processed and evaluated. The Minister or his delegate will make a decision once the process of the evaluation and appeal on the Environmental Authorization application has been finalized.
6. You are in terms of Section 17(1) of the Act required to give effect to the objects referred to in Section 2 (d) of the Act. Therefore please submit on or before **19th May 2021 (within 60 days from the date of this letter)** to this office for the attention of Regional Manager any documentation proving such including but not limited to:-
 - 6.1 Duty signed shareholders agreements with your empowerment partner in which provision **shall** be made for entrepreneurs, local community and employees,
 - 6.2 Share certificates,
 - 6.3 Details relating to the equity by the BEE shareholders, Any other agreement relating to the BEE shareholding including the voting pool agreement where applicable,
 - 6.4 Articles and memorandum of association of the company.
 - 6.5 Any other information that may be necessary to explain and serve as evidence that the applicant meets the appropriate HDSA ownership and/or compliance requirements of the aforesaid Act and Mining Charter.
7. Please submit **within 60 days (19th May 2021)** from date of this letter for the attention of Regional Manager a complete prospecting work programme prepared

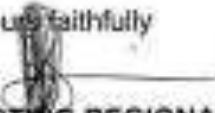
KZN 2020/17/021-1026 PR

Acceptance Of An Application For Prospecting Right In Terms Of Section 16 Of The Mineral And Petroleum Resources Development Act, (Act 28 Of 2002) To Prospect For Coal, Pseudosulfate, Tarponite/Oil Shale On Portion 1 And The Remainder Of The Farm Dursley No. 11 113-04, Portions 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 And The Remainder Of The Farm Carendon Lodge No. 11 370-04, Portions 1, 2, 5, 6, 9, 10, 11, 12, 13, 14 And The Remainder Of The Farm Lot 201 Empangeni No. 12 375-04, Portions 3, 5, 7 And 8 Of The Farm Lot 197 Empangeni No. 12 476-04, Multiple Eriens Of The Waterstone Township-021 And Portions 2, 3, 6 The Remainder Of Portion 5, And The Remainder Of Farm 55555 Park No. 11 484-04 Situated In The Magisterial District Of UThungulu Region Resource (Pty) Ltd. SA

In terms of Regulation 7 of the Mineral and Petroleum Resources Development Act, 2002 (Act no 28 of 2002): Mineral and Petroleum Development Regulation.

8. You are also required to adhere with the requirements of Mine Health and Safety Inspectorate and upload on system the required information and details on or before 12th April 2021 (within 30 days from the date of this letter)
9. Please be advised that your application might be processed in terms of section 9 (1) (b) of the Act. If this office discovers that there is an existing or pending application on the same properties and for the same mineral, this application shall discontinue.
10. Please take note that failure to adhere to the timeframe stipulated above and to submit any documentation required in terms of this notice will result into non-compliance with the provision of the Act and the Amendment Act and will result in the refusal of your application.

Yours faithfully

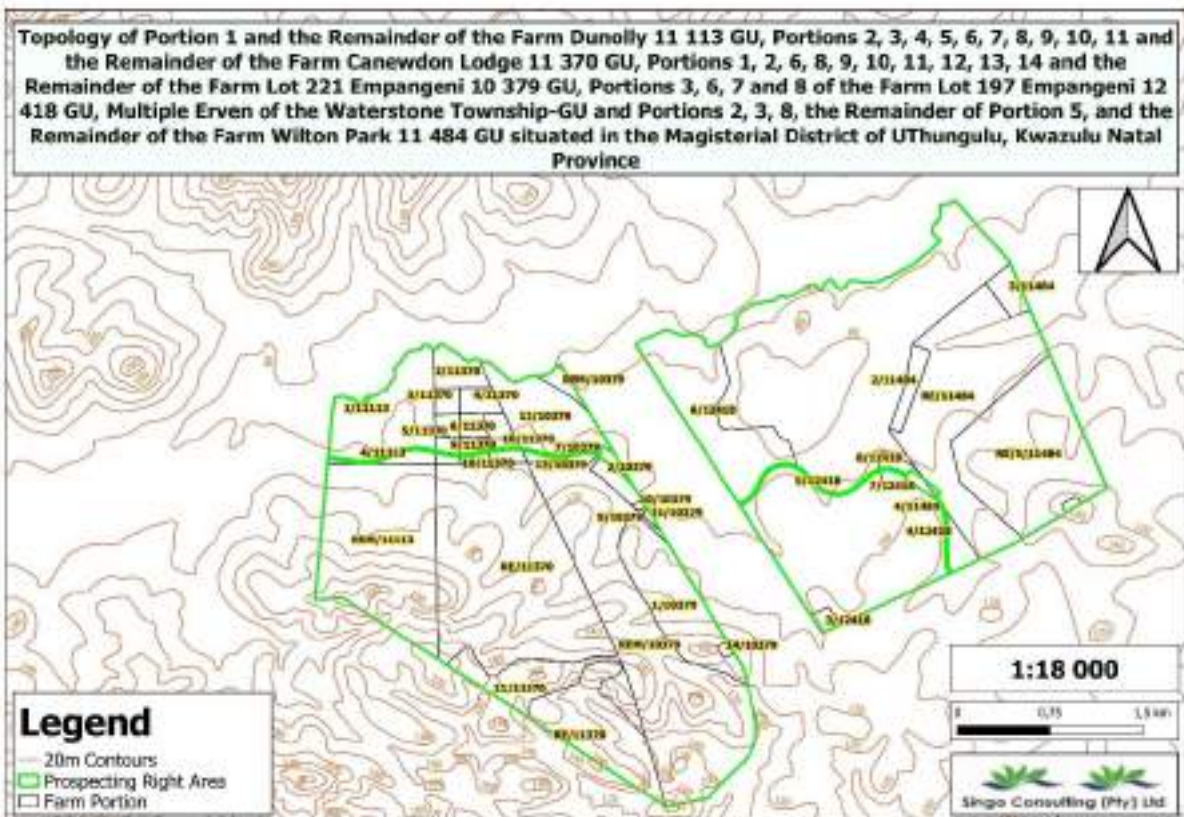
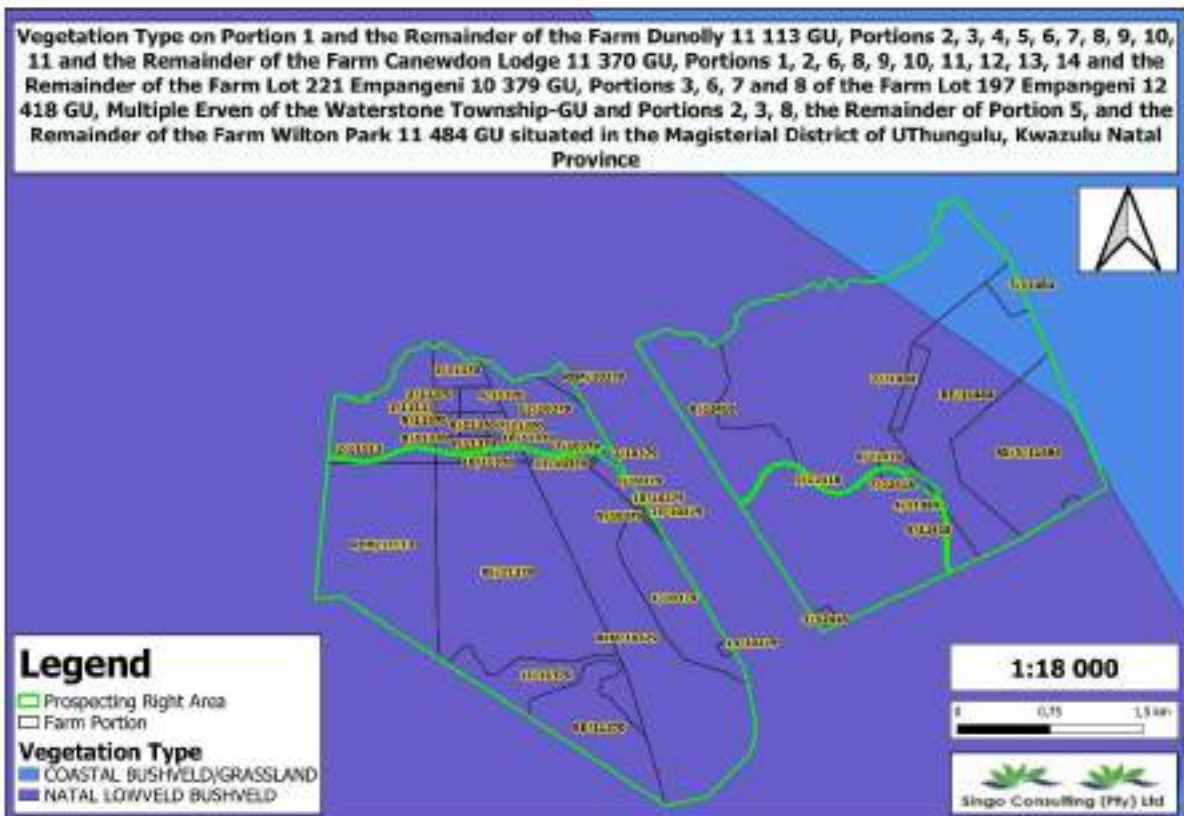

ACTING REGIONAL MANAGER
KWAZULU NATAL REGION

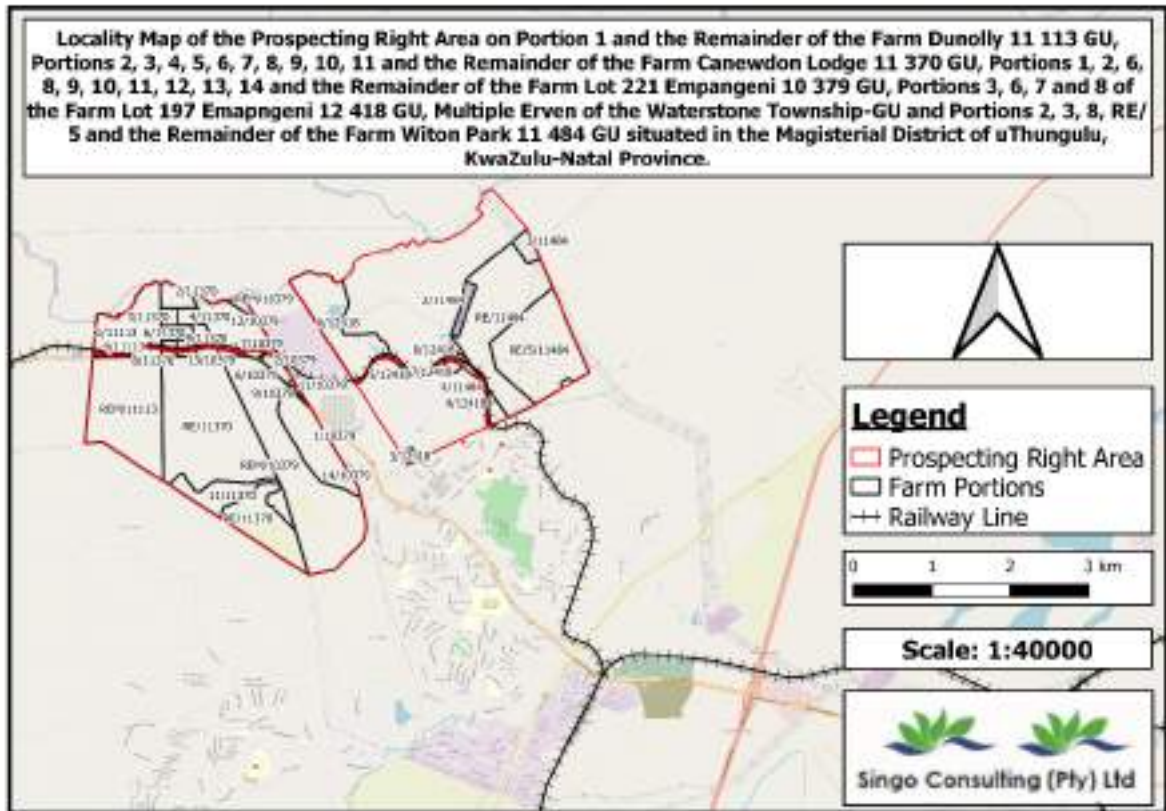
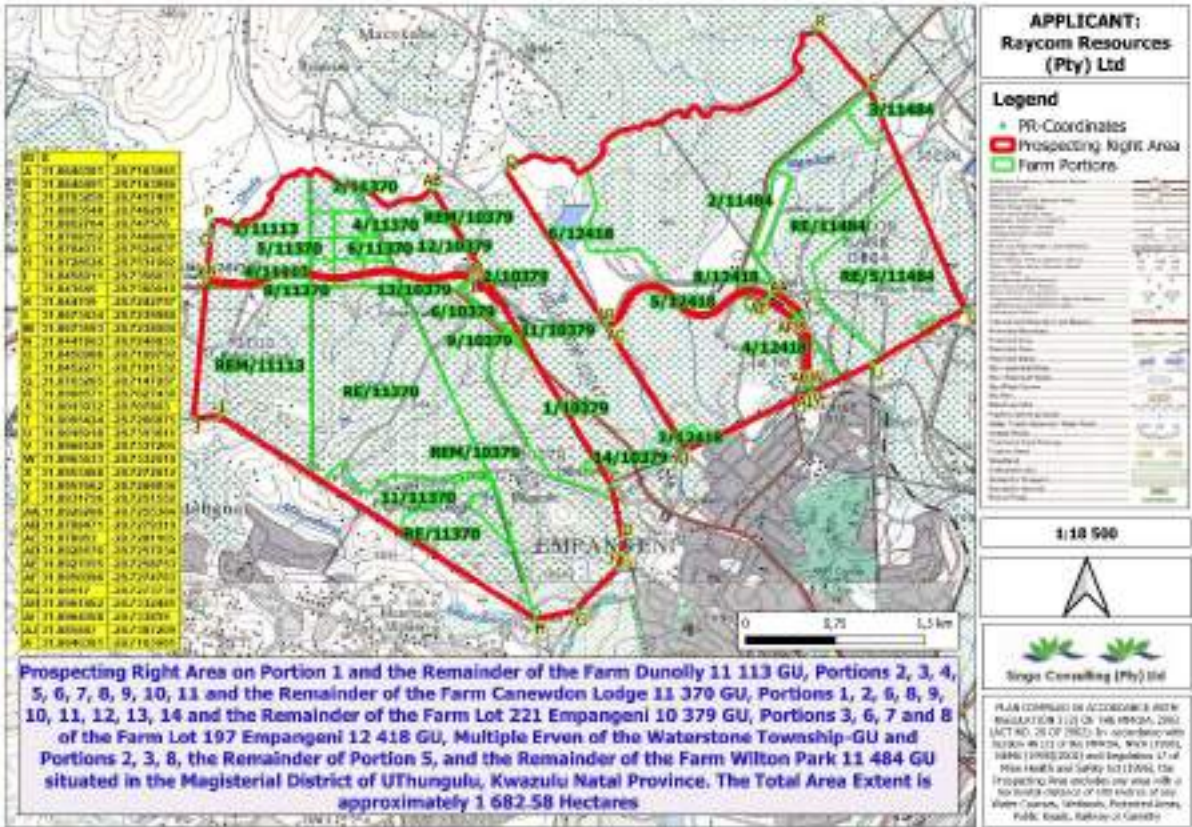
DATE: 09/03/2021

KZN 38/5/1/1/21/1023 PR

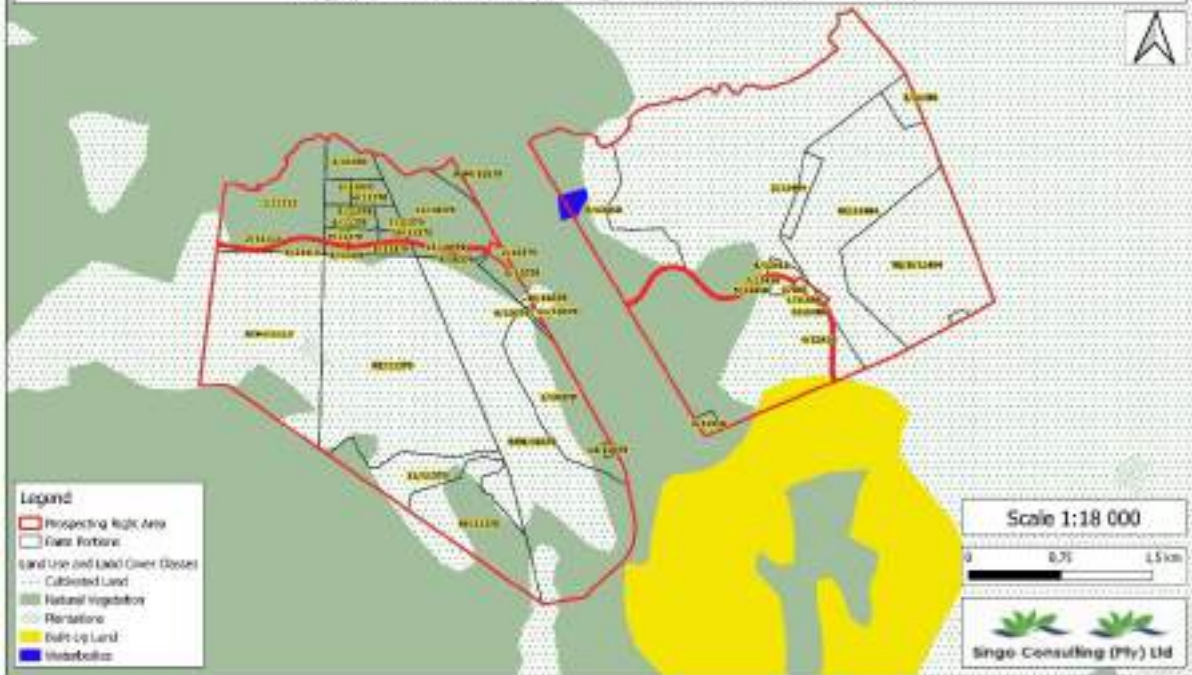
Acceptance Of An Application For Prospecting Right In Terms Of Section 16 Of The Mineral And Petroleum Resources Development Act (Act 28 Of 2002) To Prospect For Coal, Pheulisoai, Tonzante/Di Stale On Portion 1 And The Remainder Of The Farm Dursoy No. 11 115-Gu, Portions 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 And The Remainder Of The Farm Canevdon Lodge No. 11 373-Gu, Portions 1, 2, 6, 8, 9, 10, 11, 12, 13, 14 And The Remainder Of The Farm Lot 221 Empangeni No. 10 370-Gu, Portions 3, 6, 7 And 8 Of The Farm Lot 167 Empangeni No. 12 438-Gu, Multiple Erven Of The Waterstone Township-GU And Portions 2, 3, 8 The Remainder Of Portion 5, And The Remainder Of Farm Wilsa Park No. 11 484-Gu Situated In The Magistral District Of UThungulu; Raycom Resource (Pty) Ltd. S.N

Appendix 2: Maps for Raycom Resources Project

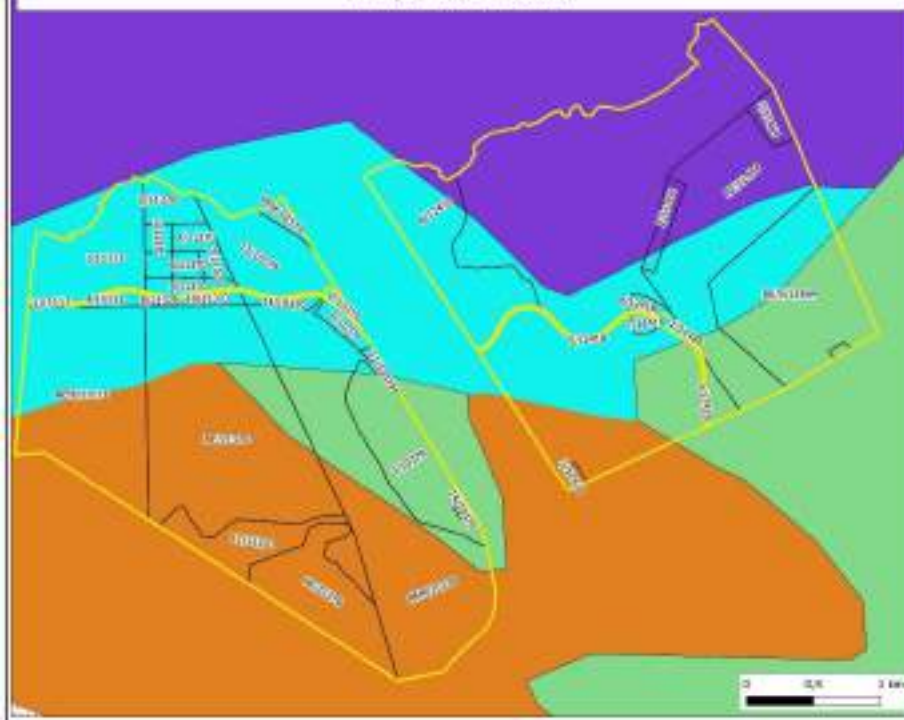




Land Use and Land Cover Classes on Portion 1 and the Remainder of the Farm Dunolly 11 513 GU, Portions 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and the Remainder of the Farm Canewdon Lodge 11 370 GU, Portions 1, 2, 6, 8, 9, 10, 11, 12, 13, 14 and the Remainder of the Farm Lot 221 Empangeni Township-GU and Portions 2, 3, 8, the Remainder of Portion 5, and the Remainder of the The Farm Wilton Park 11 484 GU situated in the Magisterial District of UThungulu, Kwazulu-Natal Province



Geology of Prospecting Right Area on Portion 1 and the Remainder of the Farm Dunolly 11 513 GU, Portions 2, 3, 4, 6, 7, 9, 10, 11 and the Remainder of the Farm Canewdon Lodge 11 370 GU, Portions 1, 2, 6, 8, 9, 10, 11, 12, 13, 14 and the Remainder of the Farm Lot 221 Empangeni 10 379 GU, Portions 3, 5, 7 and 8 of the Farm Lot 197 Empangeni 12 418 GU, Multiple Griens of the Waterstone Township-GU and Portions 2, 3, 8, Remainder of Portion 5 and the Remainder of the Farm Wilton Park 11 484 GU situated in the Magisterial District of UThungulu, Kwazulu-Natal Province



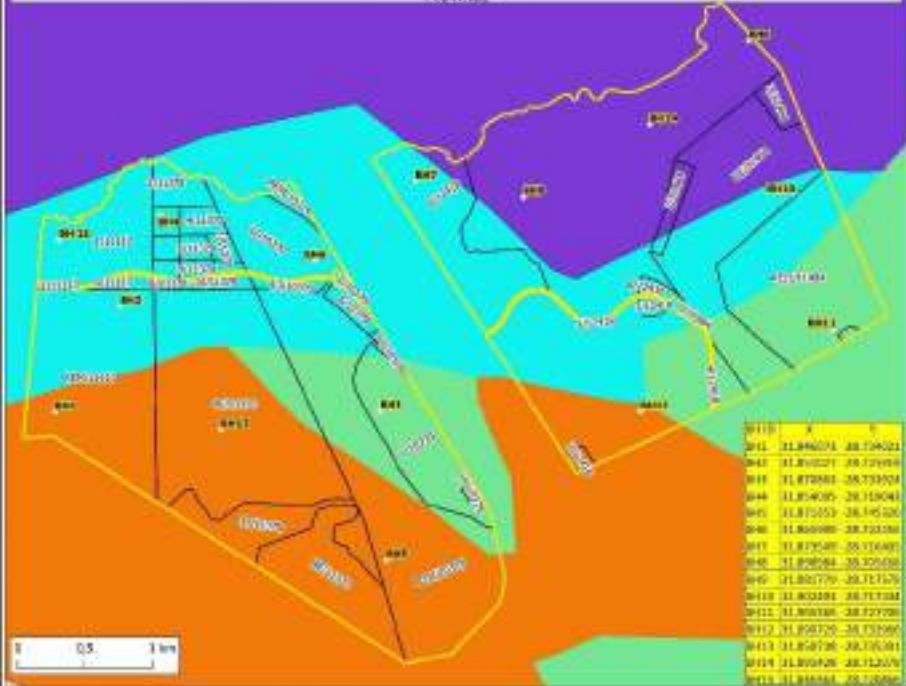
Applicant :
Raycom Resources (Pty) Ltd

LEGEND
 Prospecting Right Area
 Farm Portions
Geology
 ENKAMEZI FORMATION
 HLOAM COMPLEX
 LETABA FORMATION
 EMPANGENI METAMORPHIC SUITE
 POTASSIC GRANITE, GNEISS

North Arrow
 Coordinate System : GCS WGS 1984
 Datum : 1984
 1 : 16 500

Singo Consulting (Pty) Ltd
 17 Sun Rd - 14
 North Beach - Durban - KwaZulu
 Natal - 4013
 031 201 1111
 031 201 1111
 www.singoconsulting.co.za

Proposed Boreholes on Portion 1 and the Remainder of the Farm Dunolly 11 113 GU, Portions 2, 3, 4, 5, 6, 7, 8, 10, 11 and the Remainder of the Farm Canewdon Lodge 11 370 GU, Portions 1, 2, 6, 8, 9, 10, 11, 12, 13, 14 and the Remainder of the Farm Lot 221 Empangeni 10 379 GU, Portions 3, 6, 7 and 8 of the Farm Lot 197 Empangeni 12 418 GU, Multiple Even of the Waterstone Township-GU and Portions 2, 3, 8, the Remainder of Portion 5 and the Remainder of the Farm Wilton Park 11 484 GU situated in the Magisterial District of UThungu, KwaZulu Natal Province



Applicant :
Raycom Resources (Pty) Ltd

- LEGEND**
- Proposed Boreholes
 - Prospecting Right Area
 - Farm Portions
- Geology**
- EMKOMEZINI FORMATION
 - HLODANE COMPLEX
 - LETABA FORMATION
 - ENKANGAHE INKAMBOBHE SICILE
 - POTASSIC GRANITE, GNEISS



Drax Consulting (Pty) Ltd

Office No. 14
First Floor, Oxley Building
Garden Hill, Crossroads
55 Lunga-Crossroads
Garden Hill
Durbanville

T: +27 11 802 8041
F: +27 11 804 4932
E: drax@draxconsulting.co.za

Proposed Boreholes on Portion 1 and the Remainder of the Farm Dunolly 11 113 GU, Portions 2, 3, 4, 5, 6, 7, 8, 10, 11 and the Remainder of the Farm Canewdon Lodge 11 370 GU, Portions 1, 2, 6, 8, 9, 10, 11, 12, 13, 14 and the Remainder of the Farm Lot 221 Empangeni 10 379 GU, Portions 3, 6, 7 and 8 of the Farm Lot 197 Empangeni 12 418 GU, Multiple Even of the Waterstone Township-GU and Portions 2, 3, 8, the Remainder of Portion 5 and the Remainder of the Farm Wilton Park 11 484 GU situated in the Magisterial District of UThungu, KwaZulu Natal Province



Applicant :
Raycom Resources (Pty) Ltd

- LEGEND**
- Proposed Boreholes
 - Prospecting Right Area
 - Farm Portions
 - 100m Buffers
- Rivers**
- Perennial
- Wetlands**
- Channelled valley-bottom
 - Unchannelled valley-bottom



Drax Consulting (Pty) Ltd

Office No. 14
First Floor, Oxley Building
Garden Hill, Crossroads
55 Lunga-Crossroads
Garden Hill
Durbanville

T: +27 11 802 8041
F: +27 11 804 4932
E: drax@draxconsulting.co.za

Appendix 3: Stakeholder's Engagement.

PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATED W...

Masindi, Nefele <masindi@singoconsulting.co.za>
To: 'tshkz@umhlathuze.gov.za'
Cc: 'Kenneth, Singo; 'udzozi@singoconsulting.co.za'; 'tshkz@singoconsulting.co.za'; 'desheey@singoconsulting.co.za'

Fr 2021/04/30 14:05

Background Information Document.pdf
1020102

Good Day,

I hope this email finds you well.

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PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATED W...

Masindi, Nefele <masindi@singoconsulting.co.za>
To: 'tshkz@umhlathuze.gov.za'
Cc: 'Kenneth, Singo; 'udzozi@singoconsulting.co.za'; 'tshkz@singoconsulting.co.za'; 'desheey@singoconsulting.co.za'

Fr 2021/04/30 14:06

Background Information Document.pdf
1020102

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If you know anyone who might be interested in this project, kindly forward this email to that person.

Kind regards,

Masindi, Nefale
Junior Consultant
B.Sc. (Plant Mining & Environmental Geology)

+27 75 324 5499
+27 86 514 4105
masind@singoconsulting.co.za
www.singoconsulting.co.za

Singo Consulting (Pty) Ltd
09 Langa Crescent, Office No.16
Corridor Hill Crossing
First Floor (South Block)
eMalaheni

LinkedIn Facebook WhatsApp Instagram

PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATED W...

Masindi, Nefale <masindi@singoconsulting.co.za>
To: 'MhlangoMS@amhlatheze.gov.za'
Cc: 'Kenneth, Singo'; 'ndabeni@singoconsulting.co.za'; 'lakaleni@singoconsulting.co.za'

Fr: 2021/04/30 14:11

Background Information Document.pdf
1020 KB

Good Day, Mr Sphelele Zulu,

I hope this email finds you well,

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To: 'MhlangoMS@amhlatheze.gov.za'
Cc: 'Kenneth, Singo'; 'ndabeni@singoconsulting.co.za'; 'lakaleni@singoconsulting.co.za'

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Junior Consultant
B.Sc. (Plant Mining & Environmental Geology)

+27 76 324 5499
+27 13 852 0041
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www.singoconsulting.co.za

Singo Consulting (Pty) Ltd
09 Langa Crescent, Office No. 16
Corridor Hill Crossing
First floor (South Block)
eMalaheni

LinkedIn Facebook Instagram

PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATED W...



Masindi, Nefale <masindi@singoconsulting.co.za>
To: 'fredenr@kingcetshwayo.gov.za'
Cc: 'Kenneth, Siga' <nsiga@singoconsulting.co.za>, 'lakale@singoconsulting.co.za', 'dshway@singoconsulting.co.za'

Reply Reply All Forward

Fri 2021/04/30 14:16



Good Day Mr Mandla Nkosi,

I hope this email finds you well.

Singo Consulting (Pty) Ltd on behalf of Raycom Resources (Pty) Ltd, hereby wish to inform you that it has submitted an application for a Prospecting Right together with an Environmental Authorization to the KwaZulu Natal Department of Mineral Resources and Energy (DMRE) for the purpose of Prospecting for **Coal, Pseudocoal and Torbanite/Oil Shale** on the **portion 1 and the Remainder of the farm Dunolly No. 11 113-GU, Portions 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and the Remainder of the farm Canewdon Lodge No. 11 370-GU, Portions 1, 2, 4, 6, 9, 10, 11, 12, 13, 14 and the Remainder of the farm Lot 221 Empangeni No. 10 379-GU, Portions 3, 4, 7, and 8 of the farm Lot 197 Empangeni No. 12 418-GU, Multiple Erven of the Waterstone Township-GU and Portions 2, 3, 8, the Remainder of portion 5, and the Remainder of farm Wilton Park No. 11 484-GU**, situated in uMhlatuze Local Municipality under King Cetshwayo District Municipality, within Jurisdiction of Empangeni Magisterial District, KwaZulu-Natal Province. (DMRE Ref: KZN 30/5/1/1/2/ 11025 PR).

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Masindi, Nefale <masindi@singoconsulting.co.za>
To: 'fredenr@kingcetshwayo.gov.za'
Cc: 'Kenneth, Siga' <nsiga@singoconsulting.co.za>, 'lakale@singoconsulting.co.za', 'dshway@singoconsulting.co.za'

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Kind regards,

The image shows two business cards. The left card is for Masindi, Nefale, a Junior Consultant in B.Sc. (Plant Mining & Environmental Geology). It includes a photo of Masindi, his contact numbers (+27 76 324 5499 and +27 13 692 0041), email (masindi@singoconsulting.co.za), and website (www.singoconsulting.co.za). The right card is for Singo Consulting (Pty) Ltd, located at 09 Langa Crescent, Office No. 16, Corridor Hill Crossing, First Floor South Block, eMalaheni. It features the company logo and social media icons for LinkedIn, Facebook, WhatsApp, and Instagram.

Good Day, Mr Wusumuz Mahaye,

I hope this email finds you well.

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Masindi Netele <masindi@singoconsulting.co.za>
To: Mahayesi@kingcetshwayo.gov.za
Cc: 'Kareath, Singo' <kareath@singoconsulting.co.za>; 'Dinesh' <dinesh@singoconsulting.co.za>

Reply Reply All Forward

Fri 2021-04-30 14:17



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Masindi, Nefale <masindi@singoconsulting.co.za>
To: ngcobo@kingcathway.gov.za
Cc: Kenneth, Singo; 'ntabeni@singoconsulting.co.za'; 'ntabeni@singoconsulting.co.za'
Fri, 2021/04/30 14:21

Background Information Document.pdf
1029 KB

Good Day, Londeka Ngcobo.

I hope this email finds you well.

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Junior Consultant
B.Sc. (Plant Mining & Environmental Geology)



+27 76 324 5499
+27 13 862 0041
masindi@singoconsulting.co.za
www.singoconsulting.co.za

Singo Consulting (Pty) Ltd

09 Langa Crescent, Office No.16
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First Floor South Block
eMalaheni






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Masindi, Nefale <masindi@singoconsulting.co.za>
To: 'MREResourceCentre@dmre.gov.za'
Cc: 'Kenneth, Singo'; 'yudani@singoconsulting.co.za'; 'takalani@singoconsulting.co.za'

Fri 2021/04/30/14:23

Background Information Document.pdf
102 KB

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PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATED W...

Masindi, Nefale <masindi@singoconsulting.co.za>
To: 'MREResourceCentre@dmre.gov.za'
Cc: 'Kenneth, Singo'; 'yudani@singoconsulting.co.za'; 'takalani@singoconsulting.co.za'

Fri 2021/04/30/14:23

Background Information Document.pdf
102 KB

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If you know anyone who might be interested in this project, kindly forward this email to that person.

Kind regards,

Masindi, Nefale
Junior Consultant
B.Sc. (Hons) Mining & Environmental Geology

+27 76 324 5499
+27 13 862 0041
masindi@singoconsulting.co.za
www.singoconsulting.co.za

Singo Consulting (Pty) Ltd
09 Langa Crescent, Office No.16
Corridor Hill Crossing
First Floor South Block
eMalaheni

LinkedIn Facebook WhatsApp Instagram

PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATED W...

Masindi, Nefale <masindi@singoconsulting.co.za>
To: 'ThembalakeSibozana'
Cc: 'Kenneth Sego', 'kubisa@singoconsulting.co.za', 'kubisa@segoconsulting.co.za'

Reply Reply All Forward

Fri 2021/04/30 14:23



Good Day, Mr Thembalake Sibozana,

I hope this email finds you well.

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Masindi, Nefale <masindi@singoconsulting.co.za>
To: 'ThembalakeSibozana'
Cc: 'Kenneth Sego', 'kubisa@singoconsulting.co.za', 'kubisa@segoconsulting.co.za'

Reply Reply All Forward

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Please find the attached Background Information Document (BID) for detailed description of the proposed project and timelines.

If you know anyone who might be interested in this project, kindly forward this email to that person.

Kind regards,

The image shows a business card for Masindi, Nefale, a Junior Consultant. On the left, there is a portrait of Masindi, Nefale. To the right of the portrait, contact information is listed: a mobile phone icon with the number +27 76 324 5499, a landline icon with +27 15 862 0041, an email icon with masindi@singoconsulting.co.za, and a website icon with www.singoconsulting.co.za. On the right side of the card, the Singo Consulting (Pty) Ltd logo is displayed, featuring two green leaves. Below the logo, the company address is given: 09 Langa Crescent, Office No.16, Corridor Hill Crossing, First Floor (South Block), eMalaheni. At the bottom right, there are icons for LinkedIn, Facebook, WhatsApp, and Instagram.

PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATED W...



Masindi, Nefale <masindi@singoconsulting.co.za>

To: 'StarkeyA@des.gov.za'

Cc: 'Kaneeth, Singo'; 'yudaze@singoconsulting.co.za'; 'takatave@singoconsulting.co.za'

Reply Reply All Forward ...

Fri, 2021/04/30 14:12



Background Information Document.pdf
1520 KB

Good Day, Mr Ashley Starkey,

I hope this email finds you well,

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Masindi, Nefale <masindi@singoconsulting.co.za>

To: 'StarkeyA@des.gov.za'

Cc: 'Kaneeth, Singo'; 'yudaze@singoconsulting.co.za'; 'takatave@singoconsulting.co.za'

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B.Sc. (Plant Mining & Environmental Geology)

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masindi@singoconsulting.co.za
www.singoconsulting.co.za

Singo Consulting (Pty) Ltd
09 Langa Crescent, Office No.16
Corridor Hill Crossing
First Floor (South Block)
eMalaheni

LinkedIn Facebook Instagram

PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATED W...



Masindi, Nefele <masindi@singoconsulting.co.za>
To: pillayr@dws.gov.za
Cc: Kenneth, Singo <kudani@singoconsulting.co.za>; 'Isakani@singoconsulting.co.za'

Reply Reply All Forward

Fri, 20/11/2015 14:02



Good Day, Pillay R.

I hope this email finds you well.

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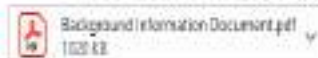
PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATED W...



Masindi, Nefele <masindi@singoconsulting.co.za>
To: pillayr@dws.gov.za
Cc: Kenneth, Singo <kudani@singoconsulting.co.za>; 'Isakani@singoconsulting.co.za'

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Junior Consultant
B.Sc. (Plant Mining & Environmental Geology)

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masind@singoconsulting.co.za
www.singoconsulting.co.za

Singo Consulting (Pty) Ltd
09 Langa Crescent, Office No.16
Corridor Hill Crossing
First Floor (South Block)
eMalaheni

LinkedIn Facebook WhatsApp Instagram

RE: PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUA...



Pillay Renelle (DBN) <RipillayR@dws.gov.za>
To: Maseko, Nefele
Cc: 'Kenneth, Singe', kudzanzi@singoconsulting.co.za; tshabalala@singoconsulting.co.za

Reply Reply All Forward

Mon 30/05/2021 08:21

Follow up: Start by Monday, 03 May 2021. Due by Monday, 03 May 2021.
You replied to this message on 2021/05/03 11:05.

Dear Sir/Madam

Please be advised that you will need to direct all applications to the Acting Deputy Director: Mr Strini Govender (Sub-Directorate: Water Quality Management).

Mr Govender can be contacted at govenders2@dws.gov.za or on 082 885 9665 or on 031 336 2759.

Regards
Renelle Karen Pillay

Water Quality Planning
Sub-Directorate: Water Use
Department of Water & Sanitation
PO Box 1018, Durban, 4000
Tel no. (031) 336 2742
Cell no. 082 908 3748

RE: PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUA...



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RE: PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATE...

MN Masindi, Nefale <masindi@singoconsulting.co.za>
To: 'Pillay Renelle (DENV)
Cc: 'Kenneth, Singo'; 'nuzani@singoconsulting.co.za'; 'tsolani@singoconsulting.co.za'
Mon 2021/05/03 12:01

[This message is part of a threaded conversation. Click here to find all related messages or to open the original flagged message.](#)

Good Morning Renelle Karen Pillay,
Thank you for your response, email will be directed to govenders2@dws.gov.za.
Kind Regards,

Masindi, Nefale
Junior Consultant
B.Sc. (Plant Mining & Environmental Geology)

Singo Consulting (Pty) Ltd
09 Langa Crescent, Office No.16
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First Floor (South Block)
eMalaheni

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To: 'Pillay Renelle (DENV)
Cc: 'Kenneth, Singo'; 'nuzani@singoconsulting.co.za'; 'tsolani@singoconsulting.co.za'
Mon 2021/05/03 12:01

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Cc: 'Kenneth Singo', 'yudani@singoconsulting.co.za', 'tshale@singoconsulting.co.za'

Reply Reply All Forward

Fri 2021/04/30 14:43



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PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATED W...



Masindi, Nefale <masindi@singoconsulting.co.za>
To: 'govenders2@dms.gov.za'
Cc: 'Kenneth Singo', 'yudani@singoconsulting.co.za', 'tshale@singoconsulting.co.za'

Reply Reply All Forward

Fri 2021/04/30 14:43



Good Day, Mr Strini Govender,

I hope this email finds you well.

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If you know anyone who might be interested in this project, kindly forward this email to that person.

Kind regards,

Masindi, Nefale
Junior Consultant
B.Sc. (Plant Mining & Environmental Geology)

+27 75 324 5499
+27 15 662 0041
masind@singoconsulting.co.za
www.singoconsulting.co.za

Singo Consulting (Pty) Ltd
09 Langa Crescent, Office No.16
Corridor Hill Crossing
First Floor (South Block)
eMalaheni

LinkedIn Facebook WhatsApp Instagram

From: Sibango Lwandle (DBM) <SibangoL@dws.gov.za>

Sent: Tuesday, 04 May 2021 10:18

To: admin@singoconsulting.co.za; masindi@singoconsulting.co.za

Subject: RE: PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATED WITHIN UMHLATHUZE LOCAL MUNICIPALITY. DMRE REF: KZN 30/5/1/1/2/ (11025) PR.

Good Morning Ms Nefele

Thank you for identifying the Dept of Water and Sanitation (DWS) as one of the key stakeholders (I&AP) for this project. DWS looks forward to receiving further correspondence with regards to the subsequent Environmental Assessment processes.

Zibani yes.

Sibango Lwandle L.L. | Water Quality Management | Department of Water and Sanitation – KZN Region

88 Joe Slovo Street, 14th Southern Life Building | Private Bag X54304, Durban, 4000

Tel: 031 336 2760, Cell phone: 082 879 9722 | e-mail: sibangoL@dws.gov.za

From: Malibji Ziyanda (DBM) <malibji@dws.gov.za>

Sent: Thursday, 06 May 2021 11:20

To: masindi@singoconsulting.co.za; admin@singoconsulting.co.za

Subject: DWS Comments for Proposed Prospecting Right Application

Good Day Sir/ Madam

Kindly find the attached comments on behalf of the Department of Water and Sanitation for the proposed Prospecting Right Application for Coal, Pseudocoal and Torbents.

Regards,

Ziyanda Malibji | Water Quality Management | Department of Water and Sanitation – KZN

88 Joe Slovo Street, Southern Life Building, 14th Floor | Private Bag X54304, Durban, 4000

Tel: 031 336 2967 | e-mail: malibji@dws.gov.za



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

KWAZULU-NATAL REGION

Private Bag X 54304, Durban, 4000. Southern Life Building, 88 Field (Joe Slovo) Street, Durban.
Tel: (031) 336 2700. Fax: (031) 305 9915. www.dws.gov.za

to: Ms Z. Malbiji
email: malbijiz@dws.gov.za
Date: 06 May 2021

tel: 031 336 2967
ref: 16/2/7/W/120/A33

Singo Consulting (Pty) Ltd
Office No. 16, 1st Floor (South Block)
Corridor Hill Crossing, 09 Langa Crescent,
Corridor Hill, Emalahleni

ATTENTION: TSHISEVHE TSHIFHANGO

Dear Sir/ Madam

RE: BACKGROUND INFORMATION DOCUMENT FOR THE PROPOSED PROSPECTING RIGHT APPLICATION FOR COAL, PSEUDOCOAL AND TORBANITE/ OIL SHALE ON PORTION 1 AND THE REMAINDER OF THE FARM DUNOLLY NO. 11 113-GU, PORTIONS 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 AND THE REMAINDER OF THE FARM CANEWDON LODGE NO. 11 370-GU, PORTIONS 1, 2, 5, 6, 9, 10, 11, 12, 13, 14 AND THE REMAINDER OF THE FARM LOT 221 EMPANGENI NO. 10 379-GU, PORTIONS 3, 6, 7 AND 8 OF THE FARM LOT 197 EMPANGENI NO. 12 418-GU, MULTIPLE ERVEN OF THE WATERSTONE TOWNSHIP- GU AND PORTIONS 2, 3, 8, THE REMAINDER OF PORTION 5, AND THE REMAINDER OF FARM WILTON PARK NO. 11 484-GU, WITH UMHLATHUZE LOCAL MUNICIPALITY

Reference is made to the Background Information Document (BID) received electronically by the Department of Water and Sanitation (Department) on the 30th April 2021. This Department has the following comments which must be addressed and form part of the subsequent environmental assessment process. The subsequent environmental report(s) must be submitted to this office for further review to ensure compliance with statutory requirements, assessment of scientific and technical adequacy and to ensure issues raised have been adequately addressed.

1. The Applicant is reminded to include details on water and wastewater provisions for the proposed project/ development, amongst others;
 - 1.1 A breakdown of the water requirements for all phases of the development;
 - 1.2 The source of water to be used for the development;

Page 1 of 2

- 1.3 Wastewater and sewage treatment and/or management for all phases of the development;
and
- 1.4 Proof of sustainability of both water and wastewater provisions for the lifetime of the project/
development.
2. The Applicant is reminded to conduct an impact assessment to determine the potential impacts
of the proposed development on watercourses including the mitigation measures outlining how
the impacts will be mitigated and managed to avoid detrimental impacts on the watercourse.
3. The Applicant is reminded to indicate the cradle to grave management plan for the waste (both
general and hazardous waste) to be generated.
4. A detailed and project specific Environmental Management Programme for all phases of the
project must be attached.
5. The Applicant is reminded to include the erosion control measures to be implemented.
6. The Applicant is reminded to include a Stormwater Management Plan for the proposed
development/ project.

It is the responsibility of the Applicant to identify all water uses triggered by the undertakings in
terms of Section 21 of the National Water Act, 1998 (Act No. 36 of 1998) and to ensure that all
applicable water uses are authorized as such.

N.B.

The Applicant is reminded that if this development, parts of it and its infrastructure are located within
the regulated area then the project must be authorized by this Department prior to commencement
of the activity. Therefore the Applicant will be required to apply for a Water Use Authorisation as the
activity will not be a permissible water use as stipulated in Section 22 of the National Water Act, Act
36 of 1998.

Please do not hesitate to contact this office should you have any concerns, comments or queries.



For PROVINCIAL HEAD: KWAZULU-NATAL

ZM/zm

15878

PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATED W...



Masindi, Nefale <masindi@singoconsulting.co.za>
To: nerissa.pillay@kwazuluife.com
Cc: 'Kernath, Singo'; 'natana@singoconsulting.co.za'; 'lakalen@singoconsulting.co.za'; 'Diver'

Reply Reply All Forward

Fri 2021/04/30 14:45



Good Day, Nerissa Pillay,

I hope this email finds you well,

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Kind regards

The image shows a business card for Masindi, Nefale, a Junior Consultant at Singo Consulting (Pty) Ltd. The card is divided into two main sections. The left section features a portrait of Masindi, Nefale, and lists his contact information: phone numbers +27 76 324 5499 and +27 13 862 0041, email address masindi@singoconsulting.co.za, and the company website www.singoconsulting.co.za. The right section features the Singo Consulting (Pty) Ltd logo, which includes a stylized green plant and a map of South Africa. Below the logo, the company's address is listed: 09 Langa Crescent, Office No. 16, Corridor Hill Crossing, First floor (South Block), eMalaheni. At the bottom right, there are icons for social media platforms: LinkedIn, Facebook, WhatsApp, and Instagram.

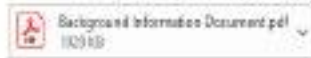
PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATED W...



Masindi, Nefale <masindi@singocconsulting.co.za>
To: 'dinesree.thambu@kwilife.com'
Cc: 'Kenneth, Singo'; 'yudani@singocconsulting.co.za'

Reply Reply All Forward ...

Fri, 2021/04/30 16:48



Good Day, Mrs Dinesree Thambu-Moodley,

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oMakhameli

LinkedIn Facebook WhatsApp Instagram

PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATED W...



Masindi, Nefale <masindi@singoconsulting.co.za>
To: 'Sihle Mkhize'@kwa-zulu-natal.gov.za
Cc: 'Kamath, Singo'; 'tuziani@singoconsulting.co.za'; 'lakalen@singoconsulting.co.za'

Reply Reply All Forward

Fri 2021/04/30 14:52



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PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATED W...



Masindi, Nefele <masindi@singocconsulting.co.za>

To: 'Siphosakhulu'@zreco.gov.za

Cc: 'Kaneeth, Singo', 'ndson@singocconsulting.co.za', 'lakale@singocconsulting.co.za', 'dehney@singocconsulting.co.za'

Reply Reply All Forward

Fri 2021/04/30 14:08



Good Day ,

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PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATED W...



Masindi, Nefele <masindi@singocconsulting.co.za>

To: 'Siphosakhulu'@zreco.gov.za

Cc: 'Kaneeth, Singo', 'ndson@singocconsulting.co.za', 'lakale@singocconsulting.co.za', 'dehney@singocconsulting.co.za'

Reply Reply All Forward

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If you know anyone who might be interested in this project, kindly forward this email to that person.

Kind regards,

Masindi, Nefale
Junior Consultant
B.Sc. (Plant Mining & Environmental Geology)

+27 76 324 5499
+27 15 662 0041
+27 86 514 4105

masindi@singoconsulting.co.za
www.singoconsulting.co.za

Singo Consulting (Pty) Ltd
051 Langa Crescent, Office No.16
Corridor Hill Crossing
First Floor (South Block)
eMalaheni

LinkedIn Facebook Instagram

PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATED W...



Masindi, Nefale <masindi@singoconsulting.co.za>
To: MthenjaniM@umhlathuze.gov.za
Cc: Kenneth Singo, tudor@singoconsulting.co.za, tsalele@singoconsulting.co.za, deshe@singoconsulting.co.za

Reply Reply All Forward

Fri, 2021/04/30 15:02



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LinkedIn Facebook WhatsApp Instagram

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Masindi, Nefate <masindi@singoconsulting.co.za>
To: 'ntokozo.mazibuko@kmd.gov.za'
Cc: 'Kenneth, Singo', 'yuliani@singoconsulting.co.za', 'bukalani@singoconsulting.co.za'

Reply Reply All Forward

Fri, 2021/04/30 15:28



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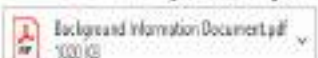
PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATED W...



Masindi, Nefate <masindi@singoconsulting.co.za>
To: 'ntokozo.mazibuko@kmd.gov.za'
Cc: 'Kenneth, Singo', 'yuliani@singoconsulting.co.za', 'bukalani@singoconsulting.co.za'

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Kind regards,

The image shows a business card for Masindi, Nefale, a Junior Consultant in Environmental Geology. It includes contact information such as phone numbers (+27 76 324 5499 and +27 15 860 0041), an email address (masindi@singoconsulting.co.za), and a website (www.singoconsulting.co.za). It also features a profile picture of Masindi, Nefale, and the logo and address of Singo Consulting (Pty) Ltd, located at 09 Langa Crescent, Office No. 16, Corridor Hill Crossing, First Floor (South Block), eMalaheni. Social media icons for LinkedIn, Facebook, and Instagram are also present.

PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATED W...



Masindi, Nefele <masindi@singoconsulting.co.za>
To: 'Skhumbuzo Mpungose'@kwaifits.gov.za
Cc: 'Kenneth, Sigo' <nsigoni@singoconsulting.co.za>, 'bakalani@singoconsulting.co.za', 'Owen'

Reply Reply All Forward ...

Fri, 2021/04/30 15:09



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Masindi, Nefale <masindi@singoconsulting.co.za>
To: 'alfredmatsheke@zseznet.co.za'
Cc: 'Kenneth, Singo'; 'nuzani@singoconsulting.co.za'; 'lakale@singoconsulting.co.za'; 'deshney@singoconsulting.co.za'
En 2021/04/18 13:11

Background Information Document.pdf
1029 KB

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eMalaheni

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PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATED W...

Masindi, Nefale <masindi@singoconsulting.co.za>
To: 'info@kzwelk.gov.za'
Cc: 'Kenneth, Singo'; 'ndzani@singoconsulting.co.za'; 'bokani@singoconsulting.co.za'

Reply Reply All Forward

Fri 2021/04/30 15:17



Good Day,
I hope this email finds you well.

Singo Consulting (Pty) Ltd on behalf of Raycom Resources (Pty) Ltd, hereby wish to inform you that it has submitted an application for a Prospecting Right together with an Environmental Authorization to the KwaZulu-Natal Department of Mineral Resources and Energy (DMRE) for the purpose of Prospecting for **Coal, Pseudocoal and Torbanite/Oil Shale** on the **portion 1 and the Remainder of the farm Dunolly No. 11 113-GU, Portions 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and the Remainder of the farm Canewdon Lodge No. 11 370-GU, Portions 1, 2, 6, 8, 9, 10, 11, 12, 13, 14 and the remainder of the farm Lot 221 Empangeni No. 10 379-GU, Portions 3, 6, 7, and 8 of the farm Lot 197 Empangeni No. 12 418-GU, Multiple Erven of the Waterstone Township-GU and Portions 2, 3, 8, the Remainder of portion 5, and the Remainder of farm Wilton Park No. 11 484-GU, situated in uMhlatuze Local Municipality under King Cetshwayo District Municipality, within Jurisdiction of Empangeni Magisterial District, KwaZulu-Natal Province. (DMRE Ref: KZN 30/5/1/1/2/ 11025 PR).**

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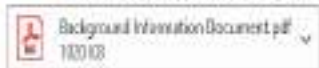
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Junior Consultant
B.Sc. (Plant Mining & Environmental Geology)

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+27 15 662 0041
masind@singoconsulting.co.za
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Singo Consulting (Pty) Ltd
09 Langa Crescent, Office No.16
Corridor Hill Crossing
First Floor (South Block)
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PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATED W...



Masindi, Nefale <masindi@singoconsulting.co.za>
To: 'Mbongeni Tshabalala@abour.gov.za'
Cc: 'Kemetsh, Sego', 'rudani@singoconsulting.co.za', 'tshabalani@singoconsulting.co.za'

Reply Reply All Forward

Fr: 2021/04/30 12:19



Good Day, Mbongeni Tshabalala:

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B.Sc. (Plant) Mining & Environmental Geology

+27 75 324 5499
+27 15 692 0041
+27 86 514 4105

masind@singoconsulting.co.za
www.singoconsulting.co.za

Singo Consulting (Pty) Ltd
09 Langa Crescent, Office No.16
Corridor Hill Crossing
First Floor (South Block)
eMalaheni

LinkedIn Facebook WhatsApp Instagram

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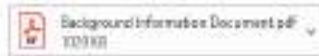
Masindi, Nefale <masindi@singoconsulting.co.za>

To: 'zilungilekhanyile@kztranspoc.gov.za'

Cc: 'Kenneth, Singo' <kotzani@singoconsulting.co.za>; 'Isakelani@singoconsulting.co.za'; 'dekhay@singoconsulting.co.za'

Reply Reply All Forward

Fri 2021/04/30 11:25



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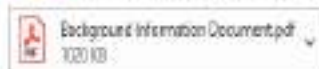
Masindi, Nefale <masindi@singoconsulting.co.za>

To: 'zilungilekhanyile@kztranspoc.gov.za'

Cc: 'Kenneth, Singo' <kotzani@singoconsulting.co.za>; 'Isakelani@singoconsulting.co.za'; 'dekhay@singoconsulting.co.za'

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Masindi, Nefale <masindi@singoconsulting.co.za>
To: bernadep@amafapmb.co.za
Cc: Kenneth, Singo; tudan@singoconsulting.co.za; tshale@singoconsulting.co.za; Owen

Background Information Document.pdf
1020 KB

Fr 2021/04/30 15:27

Good Day, Ms Bernadet Pawandiwa,

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Kind regards,

The image shows a business card for Masindi, Nefale, a Junior Consultant at Singo Consulting (Pty) Ltd. The card includes a portrait of Masindi, Nefale, and contact information such as phone numbers (+27 76 324 5499, +27 13 862 0041, +27 86 514 4105), email (masindi@singoconsulting.co.za), and website (www.singoconsulting.co.za). It also features the Singo Consulting (Pty) Ltd logo, office address (09 Langa Crescent, Office No.16, Corridor Hill Crossing, First floor South Block, oMalaheni), and social media icons for LinkedIn, Facebook, WhatsApp, and Instagram.

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Masindi, Nefele <masindi@singoconsulting.co.za>
To: 'Wansi Shivambu@sunpark.org'
Cc: 'Kenneth Singo'; 'tsibani@singoconsulting.co.za'; 'tsikeleni@singoconsulting.co.za'; 'Dwen'

Reply Reply All Forward

Fri 2021/04/30 13:48



Good Day, Akani Shivambu,

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To: 'Wansi Shivambu@sunpark.org'
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Kind regards,

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www.singoconsulting.co.za

Singo Consulting (Pty) Ltd
09 Langa Crescent, Office No.16
Corridor Hill Crossing
First Floor (South Block)
eMalaheni

LinkedIn Facebook WhatsApp Instagram

PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATED W...



Masindi, Nefale <masindi@singoconsulting.co.za>

To: 'Nefale@delcom.co.za'

Cc: 'Kenneth, Singo'; sudan@singoconsulting.co.za; 'Nefale@singoconsulting.co.za'; 'Mefney@singoconsulting.co.za'

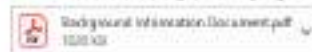
Reply

Reply All

Forward

...

Fri 2021/04/30 15:47



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Cc: 'Kenneth, Singo'; sudan@singoconsulting.co.za; 'Nefale@singoconsulting.co.za'; 'Mefney@singoconsulting.co.za'

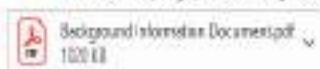
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PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATED W...



Masindi, Nefale <masindi@singoconsulting.co.za>
To: 'wickiea@barkore.co.za'
Cc: 'Kerneth, Sings' 'nuzam@singoconsulting.co.za'; 'lakalana@singoconsulting.co.za'; 'Ovesi'

Reply Reply All Forward ... Fri 2021/04/30 15:48



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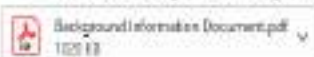
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Cc: 'Kerneth, Sings' 'nuzam@singoconsulting.co.za'; 'lakalana@singoconsulting.co.za'; 'Ovesi'

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RE: PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATE...



Samantha Naicker <NaickeSa@eskom.co.za>

To: Masindi, Nefale
Cc: 'Kareeth, Singh'; rudzen@singoconsulting.co.za; takalen@singoconsulting.co.za; 'Owen'

Follow up. Start by Saturday, 01 May 2021. Due by Saturday, 01 May 2021.
You replied to this message on 2021/05/03 13:03.

Reply Reply All Forward

Fri 2021/04/30 15:16

Good afternoon Masindi,

Please note the process for these applications:

Kindly forward it to Mr Siyabonga Nsele (Eskom Lands & Rights Manager) NseleSi@esko.co.za

Mr Nsele will allocate your application to an officer for investigation.

Regards,
Samantha Naicker
Land & Rights Officer (ST 1569)
Asset Creation : Land Development
KZN Operating Unit
Tel: 031-710 5183
Fax: 086 592 3232
Cell: 072 957 1007



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To: 'Samantha Naicker'

Cc: 'Kenneth Singo'; 'kudani@singoconsulting.co.za'; 'lakalani@singoconsulting.co.za'; 'Owen'

Reply Reply All Forward

Mon 2021/05/03 12:03

This message is part of a threaded conversation. Click here to find all related messages or to open the original flagged message.

Good Morning Samantha Naicker,

Thank you for your response, email will be directed to NseleSi@esko.co.za.

Kind Regards,

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Masindi, Nefale <masindi@singoconsulting.co.za>

To: 'Samantha Naicker'

Cc: 'Kenneth Singo'; 'kudani@singoconsulting.co.za'; 'lakalani@singoconsulting.co.za'; 'Owen'

Reply Reply All Forward

Mon 2021/05/03 12:03

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Masindi, Nefale <masindi@singoconsulting.co.za>
To: 'Motsisi@wecoms.co.za'
Cc: 'Kenneth Singo', 'tudzani@singoconsulting.co.za', 'tsikani@singoconsulting.co.za'

Reply Reply All Forward ...

Fr: 2021/04/30 15:38



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Masindi, Nefele <masindi@singoconsulting.co.za>
To: 'SibiyaTG@eskom.co.za'
Cc: 'Kenneth, Singo'; 'tshani@singoconsulting.co.za'; 'tshalani@singoconsulting.co.za'; 'tshineq@singoconsulting.co.za'

Reply Reply All Forward

Fri 2021/04/30 11:53



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Cc: 'Kenneth, Singo'; 'tshani@singoconsulting.co.za'; 'tshalani@singoconsulting.co.za'; 'tshineq@singoconsulting.co.za'

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PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATED W



Masindi, Nefale <masindi@singoconsulting.co.za>

To: 'SibiyaTG@ekems.co.za'

Cc: 'Kenneth, Singo'; 'kubani@singoconsulting.co.za'; 'tshani@singoconsulting.co.za'; 'dehney@singoconsulting.co.za'

Reply Reply All Forward

Fri 26/11/2017



Background Information Document.pdf
102 KB

Good Day, Thembisile Sibiya,

I hope this email finds you well.

Singo Consulting (Pty) Ltd on behalf of Raycom Resources (Pty) Ltd, hereby wish to inform you that it has submitted an application for a Prospecting Right together with an Environmental Authorization to the KwaZulu Natal Department of Mineral Resources and Energy (DMRE) for the purpose of Prospecting for **Coal, Pseudocoal and Torbanite/Oil Shale** on the **portion 1 and the Remainder of the farm Dunolly No. 11 113-GU, Portions 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and the Remainder of the farm Canewdon Lodge No. 11 370-GU, Portions 1, 2, 6, 8, 9, 10, 11, 12, 13, 14 and the Remainder of the farm Lot 221 Empangeni No. 10 379-GU, Portions 3, 6, 7, and 8 of the farm Lot 197 Empangeni No. 12 418-GU, Multiple Erven of the Waterstone Township-GU and Portions 2, 3, 8, the Remainder of portion 5, and the Remainder of farm Wilton Park No. 11 484-GU**, situated in uMhlatuze Local Municipality under King Cetshwayo District Municipality, within Jurisdiction of Empangeni Magisterial District, KwaZulu-Natal Province. (DMRE Ref: KZN 30/5/1/1/2/ 11025 PR).

This Notification is being given in compliance with the terms of: Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002) (MPRDA), National Environmental Management Act, 1998 (Act No. 107 of 1998), and EIA Regulations (as amended, 07 April 2017) which requires that stakeholders must be notified of Raycom Resources (Pty) Ltd.'s intention to obtain Prospecting Right for the above mentioned minerals.

PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATED W...



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Reply Reply All Forward ...

Fri 20/11/2017 15:38



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This invitation is being extended to you because the department that you represent might somehow be enforcing any of the Republic of South Africa's laws of which ensures; prevention of pollution & environmental degradation, promotes sustainable development & socio-economic development, or instead might be affected by prospecting activities. Hence you are being offered an opportunity to:

- Register as an I&AP and to respond to the environmental compliance process;
- Raise issues of concerns and provide suggestions for enhanced benefits;
- Contribute to local knowledge;
- Comment on the Draft Basic Assessment Report (DBAR) & Environmental Management Programme Report (EMPr)

Singo Consulting (Pty) Ltd has been appointed as an independent Environmental Assessment Practitioner (EAP) to manage the Environmental Authorization process, by conducting Environmental Impact Assessment, Public Participation for the proposed project and compile an Environmental Management Programme Report. A Basic Assessment process has commenced, for your participation kindly fill the registration and comment form at the end of the Background Information Document (BID) attached and register your comments, issues, questions that you may have about the proposed project. Should you need any clarity on the attached document or have any queries with regards to the project, please do not hesitate to contact the appointed EAP on the details provided below.

Please find the attached Background Information Document (BID) for detailed description of the proposed project and timelines.

If you know anyone who might be interested in this project, kindly forward this email to that person.

Kind regards,

The image shows a business card for Masindi, Nefale, a Junior Consultant. It includes his name, title, and qualifications (B.Sc. Plans/Mining & Environmental Geology). Contact information is provided for mobile (+27 76 324 5499), landline (+27 15 860 0041), and email (masindi@singoconsulting.co.za). The website www.singoconsulting.co.za is also listed. On the right side, the Singo Consulting (Pty) Ltd logo is shown, along with the company's address: 09 Langa Crescent, Office No.16, Corridor Hill Crossing, First Floor (South Block), eMalaheni. Social media icons for LinkedIn, Facebook, and Instagram are also present.

PROSPECTING RIGHT APPLICATION FOR RAYCOM RESOURCES (PTY) LTD, ON THE VAREOUS FARMS, SITUATED W...

Masindi, Nefele <masindi@singoconsulting.co.za>
To: 'wyleave2@kllam.co.za'
Cc: 'Kenneth, Singo'; 'nuzani@singoconsulting.co.za'; 'tobiano@singoconsulting.co.za'
Fri 2021/04/30 10:01

Background Information Document.pdf
102 KB

Good Day, ,

I hope this email finds you well,

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Please find the attached Background Information Document (BID) for detailed description of the proposed project and timelines.

If you know anyone who might be interested in this project, kindly forward this email to that person.

Kind regards,

The image shows a business card for Masindi, Nefale, a Junior Consultant at Singo Consulting (Pty) Ltd. The card is divided into two main sections. The left section features a portrait of Masindi, Nefale, and lists his contact information: phone numbers +27 76 324 5499 and +27 13 862 0041, email address masindi@singoconsulting.co.za, and the company website www.singoconsulting.co.za. The right section features the Singo Consulting (Pty) Ltd logo, which includes a stylized green plant and a map of South Africa. Below the logo, the company's address is listed: 09 Langa Crescent, Office No. 16, Corridor Hill Crossing, First floor (South Block), eMalaheni. At the bottom right, there are icons for social media platforms: LinkedIn, Facebook, WhatsApp, and Instagram.

Appendix 4: Site Inspection, Site Notice Plugging and Access routes.





Plugged Site notices



Okula and Mandozi River



Power lines running through proposed prospecting area



Fauna observed on site



Access roads



Railway track intersecting project area

Appendix 5: Basic Specialist Studies and Screening Reports

Appendix 6: Company Profile

NDINANNYI KENNETH SINGO



Singo Consulting (Pty) Ltd

Private Bag X 7214, Postnet Suite 125, Witbank 1035
Office No. 16, First Floor (South Block), Corridor Hill Crossing,
09 Langa Crescent, Corridor Hill, eMalaheni, Witbank, 1040.
Tel No.: 072-081-6682/078-2727-839
Fax No.: 086-514-4103

E-mail address: kenneth@singoconsulting.co.za

TERTIARY EDUCATION

Qualification	:	Ph.D. (Geology, Applied Environmental Mineralogy & Geochemistry)
Institution	:	University of Johannesburg
PhD Project Title	:	In Search of the Possible Economic Potential, through Conceptual Study, on Reclamation of Defunct Mine Residue areas for Development Purposes: Case study of Musina Copper Mine, Givani Louis Moore Gold Mine and Zwigodini Nyala Magnesite Mine, South Africa
Qualification	:	M.Sc. (Environmental Management)
Institution	:	University of South Africa
Masters Project Title	:	An Assessment of Heavy Metal Pollution in the Vicinity of the Defunct Copper Mine Dumps in Musina, South Africa
Qualification	:	B.Sc. (Hons) Mining & Environmental Geology
Institution	:	University of Venda
Honours Project Title	:	Structural Control on Kimberlite Pipes: A Case Study of Venetia Kimberlite Pipe-KIP, Venetia Open Cast Diamond Mine, South Africa

WORK EXPERIENCE

Company	:	Singo Consulting
Position	:	Director/Principal Consultant
Duration	:	9 August 2012—TODATE
Key Focus Area	:	Environmental Projects

Technical work:

- Environmental Impact Assessment
 - Environmental Management Plans
 - Social and Community Development Plans
 - Geological (Exploration, Resource Estimation and Competency Report)
 - Hydrological and Hydrology (Surface and Groundwater Studies)
 - Soil Science (Soil profiling, Modelling and Soil Chemistry)
 - Environmental Control Office
 - Geotechnical (Soil and Rock)
 - Mining Feasibility Studies
-

TRAINING COURSES

- 17- 19 April 2012: GSSA Drilling Methods & Techniques in Resource Exploration
 - 13-14 September 2012: GSSA Exploration Drill Site Safety
 - 3 May 2013: SHE Representative Training
 - 6-10 May 2013: Witwatersrand University, A3 SHE Risk Assessment Management
 - 22 July 2013: AATCGS Geophysics 101: Basics of Geophysics and Its Application in Coal
 - 31 July 2013: Mentorship Training
 - 14 April 2014: A2 Safety for Managers
 - 13 May - 26 June: Lump Ore Beneficiation (Basic Coal Preparation): Metallurgy G101-105, Colliery Training College, Witbank
 - 14-17 July 2014: Safety Leadership Programme
 - 6-8 Oct 2014: Understanding Coal Quality, ALS Witbank Training
 - 3-7 Nov 2014: Foundation for Leadership Programme
 - 3 Feb 2015: 4X4 Defensive Driving Training
 - 1 May 2015: Assertiveness Awareness and Training
 - 21-22 July 2016: Time Management Training
-

SYMPOSIUMS

- 29 July 2013: **Presenter:** 4th Prof Humphrey Memorial Post-Graduate Symposium, University of South Africa
 - 11 November 2015: **Presenter:** Wits GSSA REI Colloquium: Economic Potential and Viability of reclaiming mine dumps in the Limpopo Province.
-

CONFERENCES

LIST OF CONFERENCE PROCEEDINGS AND SYMPOSIUMS:

- 26-28 November 2012: Aminergy Acid Mine Drainage South Africa Conference
- 10-12 March 2014: **Presenter:** SAICE 5th International Mining and Industrial Waste Management Conference
- 29 Sept-3 Oct 2014: 9th International Mine Closure Conference, Sandton
- 16-17 March 2015: Workshop: South Africa Mining-Related Landscape* Rehabilitation Status Quo: Identifying Work Required to Close Current Knowledge gaps, WRC, Pretoria.
- 8-11 Sept 2015: Land Rehabilitation Society of Southern Africa (**LaRSSA**): Mine rehab and biodiversity.
- N.K. Singo*, 2015, Wits GSSA REI Colloquium: Economic Potential and Viability of reclaiming mine dumps in the Limpopo Province. 11th November 2015, Witwatersrand University, Johannesburg, South Africa.
- N.K. Singo* and J.D. Kramers, 2016. Uranium as a potential health hazard as well as (even) an economic asset in the Louis Moore tailings dump, near Giyani, Limpopo Province. In symposium Proceedings: 6th Mintek Analytical Symposium "The Environment", Mintek G4, Randburg, Johannesburg, South Africa, Friday 21st October 2016.

- N.K. Singo* and J.D. Kramers, 2017. Chrysotile (white asbestos) occurrence in the Nyala Magnesite Mine dumps and the soils around them, and its health implications to the community of Zwigodini Village, Limpopo Province. 5th Annual Conference. 1-4 August 2017, Resilient Landscapes in a Changing Climate.
- N.K. Singo* and J.D. Kramers, 2017. Unlocking the potential economic benefit of a tailings dump through resource modeling and estimation: SHE (safety, health, and environmental) issues and solutions. MineSafe 2017 Conference, Striving for zero harm (driving excellence through compliance), Emperors Palace, Hotel Casino Convention Resort, Johannesburg. 30-31 August 2017, The Southern African Institute of Mining and Metallurgy (SAIMM).

LIST OF PUBLICATIONS:

- N.K. Singo, and J.D., Kramers, 2017. Geochemical and Mineralogical Characterization of two low grade stockpiles (mine residue deposits): acid mine drainage vs neutral-alkaline mine drainage perspectives. A case study of the Musina (Copper) and Nyala (Magnesium) mines, South Africa.
- N.K. Singo, and J.D., Kramers, 2017. Preferred tailings retreatment approach to unlock value and create environmental sustainability of the Louis Moore tailings dump, near Giyani, South Africa.
- N.K. Singo, and J.D., Kramers, 2017. Copper tailings retreatment to deliver economic value with concurrent rehabilitation at the Musina mine, South Africa.

List of selected Projects current conducted and successfully completed (as a Lead EAP) Mining Permits, Mining Rights, Filling station and Prospecting Right:

- ❖ Basic Assessment Report (BA) Mabasakraal (Tambootierand) Filling Station with a convenience store within a portion of portion 0 of the farm Tambootierand farm no.143., North West province.

DIVINE ENERGY HOLDINGS

Cell: 078 728 4021

012 771 6004 Fax: (+27) 86 514 4103

taderera@icloud.com

- ❖ Basic Assessment Report and Environmental Management Programme Report in Respect of a Portion of Portion 01 of The Farm Elandslaagte 368 JS, Magisterial District of Middelburg, Mpumalanga Province

AARNOOT MINING (PTY) LTD

Tel No.: 079 024 2252 / 073 226 4578.

E-mail address: kekanamolfs@gmail.com

- ❖ Establishment of Coal Mining Operation On the Farm Middelburg Town and Townlands, Farm 287 JS (Portion RE), in Middelburg, Mpumalanga Province

AC & S DISTRIBUTORS AND MINING SUPPLIES (PTY) LTD

Keiskamma Street, Rietfontein Farm 314, Portion 8

Private Bag X1838

Middelburg

Mpumalanga

1050

- ❖ Environmental impact assessment report and environmental management programme Mining Right Report on Portion 10 of the farm Graspan 222 IS, situated in the Msukaligwa Local Municipality within the District of Gert Sibande in the Mpumalanga Province.
- ❖ Prospecting Right Application on Portion(s) 15 and 16 of the farm Spitzkop 333 KT under the magisterial district of Sekhukhune land, in Limpopo Province

MOBILE: +27 72 7276 041

FAX +27 (0) 086 5390 133

E: carbet.malapane@carbetandlaps.co.za

- ❖ Mining permit by Lence Holdings (Pty) Ltd for the proposed aggregate pit on Portion of the Remaining Extent of the Farm Njelepoort 193 MT, situated in the Magisterial District of Dzanani, Limpopo Province.

LENCE HOLDINGS (PTY) LTD

156 Klien Nieuw Muckleneuk

Water Kloof

001811

- ❖ APPLICATION FOR MINING RIGHT, INTEGRATED WATER USE LICENSE AND ENVIRONMENTAL AUTHORISATION, ON DIFFERENT PORTIONS OF THREE FARMS: MOOIHOEK 168 HT, KLIPSPRUIT 136 HT,

LIPSPRUIT 138 HT FOR OPENCAST THAT WILL TRANSFORM TO UNDERGROUND COAL MINE IN THE
MAGISTERIAL DISTRICT OF PIET RETIEF, MPUMALANGA

LEZALELIHLOKOHLOKO MINING AND PROJECTS CC

CELL NO: 078 146 1436

FAX NO: 086 5144 103

- ❖ Prospecting Right Application for Chrome and Platinum Group Metals (PGMs) in all Portions of the Farm Droogekloof 471 KR, situated under the Magisterial District of Waterberg, Limpopo Province

VHARANANI MINING (PTY) LTD

TEL NO: 015 295 6085

FAX NO: 015 295 6918

POSTAL ADDRESS: P.O.BOX 4546

POLOKWANE

0700

PHYSICAL ADDRESS: 3A Schoeman Street

Polokwane

0699

List of Projects:

List of Projects conducted and successfully completed as Environmental Control Officer (ECO) in mining Permits.

Client Name	Contract Start date (dd/mm/yyyy)	Contract End date (dd/mm/yyyy)	*Contact Person	Contact Person's phone number(s) and Email Address
Coal-Solmoral	28-02-2018	Ongoing	Rian Telma	H Mduza bramduza@icloud.com Rian Coalit <rian@coalit.co.za>
New Venture Mining	23-4-2017	Ongoing	Mr. G8 Simeane	071 246 3677 simeanegb@gmail.com, simeane@amerit.co.za
Verall Mineral	1-8-2017	Ongoing	Mr. Rambaul TJ	jrambaul@yahoo.com 071 501 2819
Sericon Mining	1-10-2018	Ongoing	Mr Gavin Kotzen	gv@sericon.co.za 061 626 4555 017 647 1047

28 March 2011

Mr N Singo
P O Box 1034
Makhado
0920

Dear Mr Singo

APPLICATION FOR MEMBERSHIP - MEMBER NO 967334

I have pleasure in advising you that your application for membership of the Geological Society of South Africa was ratified by the Council of the Society.

Trusting that your association with the Society will be pleasant and stimulating.

Kind regards

S. D. Smith

CRAIG SMITH
EXECUTIVE MANAGER

CERTIFIED TRUE COPY
MG TSHAKHUMA CA (SA)

I certify that the DEPONENT has acknowledged that he/she knows and understands the contents of this affidavit, that he/she does not have any objection to taking the oath, and that he/she considers it to be binding on his/her conscience, and which was sworn to and signed before me:

At: **PRETORIA** on this day of **26/06/2020**

Administering oath conformed with the regulations contained in Government Gazette No. R1253 of 21 July 1972, as amended

Signature: *[Signature]*

COMMISSIONER OF OATHS
SAIT Member MG TSHAKHUMA
Ex Officio - MTP (RSA)
542 Platinum park 2, 44 Theron Str
Clarina 0182



Membership Certificate



This is to certify that

CERTIFIED TRUE COPY
MG TSHAKHUMA CA (RSA)

Singo Consulting Pty Limited

is a member of the
**Wildlife and Environment
Society of South Africa (WESSA)**

**Member Number
MB1242730**

**Membership Period 2019 to 2020
From: 25 November 2019**

I certify that the DEPARTMENT has acknowledged that he/she knows and understands the contents of this affidavit, that he/she does not have any objections to taking the oath, and that he/she consents to be Swearing on his/her conscience and which was sworn to and signed before me:

At: **Pretoria** on this day of **26/06/2019**

Administering oath: **MG TSHAKHUMA** with the regulations contained in Government Gazette No. R1155 of 21 July 1971, as amended

Signature: 

**COMMISSIONER OF OATHS
SANT Member MG TSHAKHUMA
Ex Officio - MTP (RSA)
542 Platinum Park 2, 44 Theron Str
Clarens 0182**



WESSA
PEOPLE CARING FOR THE EARTH

Registration Number in terms of the Non-Profit Organisations Act 1997: 000 – 716
Registration Number: 1933/004658/08 (Non-Profit Company)
Tax Exemption Number: 18/11/13/1903 | PBO Number: 130001903

THE WILDLIFE AND ENVIRONMENT SOCIETY OF SOUTH AFRICA



LaRSSA

LAND REHABILITATION SOCIETY
OF SOUTHERN AFRICA

LAND REHABILITATION SOCIETY OF SOUTHERN AFRICA

hereby certifies that

Dr Ndinannyi Kenneth Singo

is a fully paid-up member of the Society having all the
rights and privileges of a

Associate Member

Membership ID:

On behalf of the Executive Council

President of the Society
Date Joined: 10 June 2015


Vice President of the Society
Expiry date: 13 May 2021

CERTIFIED TRUE COPY
MG TSHAKHUMA CA (SA)

I certify that the DEPENDENT has acknowledged that he/she knows and understands the contents of this affidavit, that he/she does not have any objection to taking the oath, and that he/she considers it to be binding on his/her conscience, and which was sworn to and signed before me:

At: PRETORIA on this day of 26 October 2020

Administering oath: complied with the regulations contained in Government Gazette No. R1258 of 21 July 1972, as amended

Signature: 

COMMISSIONER OF OATHS
SAIT Member MG TSHAKHUMA
Ex Officio - MTP (RSA)
542 Platinum park 2, 44 Theron Str
Clarina 0182


CERTIFIED TRUE COPY
MG TSHAKHUMA CA (SA)



I certify that the DEPARTMENT has acknowledged that he/she knows and understands the contents of this affidavit, that he/she does not know any objection to taking the oath, and that he/she considers it to be binding on his/her conscience, and which was sworn to and signed before me:

At: PRETORIA on this day of 05/10/2013

Admitted to the oath with the regulations contained in Government Gazette No. 37128 of 21 July 1972, as amended

Signature: 

COMMISSIONER OF OATHS
SAJIT Member MG TSHAKHUMA
Ex Officio - MTP (R3A)
542 Platinum park 2, 44 Theron Str
Clarens 0182


We certify that

NDUNANYI KENNETH SINGO

Age	46 YRS	<i>Signature: He</i> <i>degree of</i>
Gender	Male	
Marital	Married	

MASTER OF SCIENCE
in Environmental Management

at a congregation of the University
on 14 October 2013


The Chancellor


Deputy Registrar




Registrar



CERTIFIED TRUE COPY
MO TSHAKHUMA CA (PAA)



OFFICIAL STATEMENT

NDIMANYI KENNETH SIKO

HAS IN THE ACADEMIC YEAR 2013 COMPLETED
WITH THE REQUIREMENTS FOR THE DEGREE OF

MASTER OF SCIENCE
WHICH IS TO BE AWARDED
IN THE SUBJECT ENVIRONMENTAL MANAGEMENT

TITLE OF DISSERTATION:

AN ASSESSMENT OF HEAVY METAL POLLUTION NEAR AN OLD COPPER MINE DUMP IN
MUSINA, SOUTH AFRICA.

DISSERTATION ACCEPTED ON: 3 SEPTEMBER 2013

MARKS FOR DISSERTATION: 75%


REGISTRAR

PRETORIA, 2013-09-04
MKT
#113-2013



THE DOCUMENT IS ISSUED WITH VOUCHER NO. 00000000000000000000

I certify that the REGISTRAR has acknowledged that Ms. Ndumanyi Kenneth Siko is a member of the contents of this affidavit, that she has done so in full and complete accordance with the provisions of the Oaths Act, 1983 (Act No. 46 of 1983) and that she has done so in full and complete accordance with the provisions of the Oaths Act, 1983 (Act No. 46 of 1983) and that she has done so in full and complete accordance with the provisions of the Oaths Act, 1983 (Act No. 46 of 1983).

At: PRETORIA on this day of 03 of September

Administrative staff consulted with the registration controller in Government Gazette No. R1301 of 21 July 1972, as amended

Signature: 

COMMISSIONER OF OATHS
SALT MEMBER MO TSHAKHUMA
ET OFFICER - MTP (RCSA)
542 Platinum park 2, 4A Thabon Str
CLARENZA 0182

CERTIFIED TRUE COPY
MG TSHAKHUMA CA (SA)

I certify that the DEPONENT has acknowledged that he/she knows and understands the contents of this affidavit, that he/she does not have any objection to taking the oath, and that he/she considers it to be binding on his/her conscience, and which was sworn to and signed before me:

At: PRETORIA on this day of 05/06/2020

Administering oath complied with the regulations contained in Government Gazette No. R1258 of 21 July 1972, as amended

Signature: 

COMMISSIONER OF OATHS
SAIT Member MG TSHAKHUMA
 Ex Officio - MTP (RSA)
 542 Platinum park 2, 44 Theron Str
 Clarina 0182



UNIVERSITY OF VENDA

PRIVATE BAG 48000
 THOHYANDOCU
 VENDA
 TEL: (015) 992-8000
 FAX: (015) 992-4749

TRANSCRIPT OF ACADEMIC RECORD

THIS DOCUMENT IS ISSUED WITHOUT ALTERATIONS AND INCLUDES ALL YEARS OF REGISTRATION | MAY 2009

NAME OF STUDENT		STUDENT NUMBER	
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2007	BEDMEO	ECON GEOLOGY & MINERAL RES SOUTH	57 PASS
2007	BEDMEO	ENVIRON GEOLOGY & MINE REHAB 35	66 PASS
2007	BEDMEO	INTRODUCTION TO GEOPHYSICS 3543	66 PASS
2007	BEDMEO	MINE DEV & MINING OPERATIONS 354	60 PASS
2007	BEDMEO	GEU-ENVIRO & HEALTH 3545	75 PASS DISTINCTION
2007	BEDMEO	INTEGRATED MINE WATER MANAGEMENT	52 PASS
2007	BEDMEO	INDUSTRIAL ATTACHMENT 3600	65 PASS
2007	BEDMEO	EXPLORATION AND MINING GEOLOGY 3	58 PASS
2007	BEDMEO	GEOLOGICAL FIELD MAPPING 3642	70 PASS
2007	BEDMEO	SURFACE MINING AND MINE MANAGERS	54 PASS
2007	BEDMEO	MINE SURVEYING 3644	61 PASS
2007	BEDMEO	GEOTECHNICAL AND ENGINEERING 364	66 PASS
2007	BEDMEO	GIS AND MAP PRODUCTION 3646	67 PASS
2008	BEDMEO	WATER LAW & INSTITUTIONS 2	65 PASS
2008	BEDMEO	MINERAL EXPLORATION & ADVANCED M	65 PASS
2008	BEDMEO	EXPLORATION GEOPHYSICS 4542	60 PASS
2008	BEDMEO	UNDERGROUND MINING 4543	64 PASS
2008	BEDMEO	MINE SAFETY AND HEALTH 4544	58 PASS
2008	BEDMEO	ENGINEERING AND TRANSPORT SYSTEM	62 PASS
2008	BEDMEO	NON-ENTRY MINING 4546	59 PASS
2008	BEDMEO	HYDROGEOLOGY 4641	52 PASS
2008	BEDMEO	ADVANCED MINING & ENVIRONMENTAL	56 PASS
2008	BEDMEO	SMALL SCALE MINING 4644	70 PASS
2008	BEDMEO	UNDERGROUND MINE SURVEYING 4647	56 PASS
2008	BEDMEO	RESEARCH PROJECT AND MINI DISSER	73 PASS

COURSE FOR WHICH CURRENTLY REGISTERED:

** NONE **

REMARKS

** CONDUCT SATISFACTORY **

THE STUDENT FULFILLED THE REQUIREMENTS OF BEDMEO IN 2008.

FOR UNIVERSITY REGISTRAR

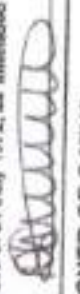


DATE: 05/06/2020

I certify that the DEPONENT has acknowledged that he/she knows and understands the contents of this affidavit, that he/she does not have any objection to taking the oath, and that he/she considers it to be binding on his/her conscience, and which was sworn to and signed before me:

At: PRETORIA on this day of 05/06/2008

Administering oath complied with the regulations contained in Government Gazette No. R1 255 of 21 July 1972, as amended

Signature: 

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 SAIT Member MG TSHAKHUMA
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University of Venda



This is to Certify that the Degree of
**Bachelor of Earth Sciences in
 Mining and Environmental Geology**

was Awarded to
 EISKO HOSHABETE KEBETE
 at a Ceremony held on the
 17-JULY-2008
 in Accordance with the Provisions of the
 Act and Statute


 Vice Chancellor




 University Registrar



 Dean

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I certify that the candidate has acknowledged that he/she knows and understands the contents of this affidavit, that he/she does not have any objection to taking the oath, and that he/she consents to be bound on this that consents and which was sworn to and signed before me:

At: PRETORIA on this day of October

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UMALUSI

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SENIOR CERTIFICATE

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Subjects passed			
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Geography	NO	C	420-495
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910 effect from: **December 2014**

Draft Executive Officer 

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478609

BASIC PROSPECTING RIGHT HYDROGEOLOGICAL

BASIC HYDROGEOLOGICAL STUDY FOR A PROSPECTING RIGHT AND ENVIRONMENTAL AUTHORIZATION APPLICATION FOR RAYCOM RESOURCES (PTY) LTD ON PORTION 1 AND THE REMAINDER OF THE FARM DUNOLLY NO. 11 113-GU, PORTIONS 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 AND THE REMAINDER OF THE FARM CANEWDON LODGE NO. 11 370-GU, PORTIONS 1, 2, 6, 8, 9, 10, 11, 12, 13, 14 AND THE REMAINDER OF THE FARM LOT 221 EMPANGENI NO. 10 379-GU, PORTIONS 3, 6, 7, AND 8 OF THE FARM LOT 197 EMPANGENI NO. 12 418-GU, MULTIPLE ERVEN OF THE WATERSTONE TOWNSHIP-GU AND PORTIONS 2, 3, 8, THE REMAINDER OF PORTION 5, AND THE REMAINDER OF THE FARM WILTON PARK NO. 11 484-GU, SITUATED IN UMHLATHUZE LOCAL MUNICIPALITY UNDER KING CETSHWAYO DISTRICT MUNICIPALITY, WITHIN JURISDICTION OF EMPANGENI MAGISTERIAL DISTRICT, KWAZULU-NATAL PROVINCE, SOUTH AFRICA.

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DMRE REF: KZN 30/5/1/1/2/ 11025 PR).

2021

Project Information

Report Type	Basic Prospecting Right Hydrogeological Report
Project Title:	Hydrogeological Report for Prospecting Right Application that has been Lodged for Coal, Pseudocoal and Torbanite/ Oil Shale, located on portion 1 and the remainder of the farm Dunolly No. 11 113-GU, portions 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and the remainder of the farm Canewdon Lodge No. 11 370-GU, portions 1, 2, 6, 8, 9, 10, 12, 13, 14 and the remainder of the farm Lot 221 Empangeni No. 10 379-GU, portions 3, 6, 7 and 8 of the farm Lot 197 Empangeni No. 12 418-GU and portion 2, 3, 8, the remainder of portion 5, and the remainder of farm Wilton Park No. 11 484-GU, situated in uMhlathuze Local Municipality under King Cetshwayo District Municipality, within Jurisdiction of Empangeni Magisterial District, Kwazulu-Natal Province, South Africa.
Client	Raycom Resources (Pty) Ltd
Site Location	Empangeni, Kwazulu-Natal Province, South Africa
Version	1
Date	07 May 2021
Compiled By	Bogosi Ramodisa (Hydrogeologist Intern) Singo Consulting (Pty) Ltd
Reviewed By	Mutshidzi Munyai (Hydrogeologist) Singo Consulting (Pty) Ltd (Water Resources Science (Candidate Natural Scientist), Environment Science (Candidate Natural Scientist) (SACNASP Registration Number 122464)
Final Review and Approval	Dr. Kenneth Singo (Principal Consultant of Singo Consulting (Pty) Ltd)

Electronic signatures



Report Credentials

Disclaimer:

The results and conclusions of this report are limited to the Scope of Work agreed between Singo Consulting (Pty) Ltd and Raycom Resources (Pty) Ltd for whom this investigation has been conducted. All notions made and all knowledge contained within this report and its attachments hinge on the convenience to and dependability of relevant information, including maps, previous reports and word-of-mouth, from the Client and affected parties. All work conducted by Singo Consulting (Pty) Ltd is done in accordance with the Singo Consulting (Pty) Ltd Standard Operating Procedures.

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EXECUTIVE SUMMARY

Singo Consulting (Pty) Ltd was appointed by Raycom Resources (Pty) Ltd as an independent consulting company, to conduct a hydrogeological study. The hydrogeological study is being conducted in support of a prospecting right application for Raycom Resources (Pty) Ltd situated in uMhlathuze local municipality under King Cetshwayo District Municipality, within Jurisdiction of Empangeni Magisterial District, Kwazulu-Natal Province, South Africa.

OUTCOMES OF THE INVESTIGATION

- Drilling activity will not be conducted near water resources.
- And all the wetlands such seep, perennial and non-perennial rivers will be buffered, and a 500m buffer will apply.
- The topography of the project area is situated in a concave topography range from 80 - 200 mamsl.
- Extreme caution will be taken during prospecting, washing of any mechanical equipment or vehicles will be allowed near the water resources.
- Water samples will be taken from selected the exploration boreholes by using approved sampling techniques and adhering to recognized sampling procedures. Samples will be analysed for both organic as well as inorganic pollutants, as mining activity often led to hydrocarbon spills in the form of diesel and oil.
- The core logs of exploration boreholes will be cleared from the ground immediately after logging by the geologists to prevent washing and leaching to the water resources during rainfall.
- After prospecting, rehabilitation of the disturbed area will take place.
- The numerical model will be recalibrated as soon as more hydrogeological data such as monitoring holes are made available. This would enhance model predictions and certainty.
- Absorbent Spill kits will be made available near the drill rigs during drilling activities.



Table of Contents

EXECUTIVE SUMMARY	4
1 INTRODUCTION	7
1.1 Background information	7
1.2 Project location	7
2 GEOHYDROLOGICAL SETTING	8
2.1 Topography and drainage	8
2.2 Climate	10
2.3 Catchment Description	12
3 SCOPE OF WORK	13
4 METHODOLOGY	14
4.1 Desktop study	14
4.2 Hydrocensus	15
4.3 Drilling and siting of boreholes.	15
4.4 Groundwater modelling	15
4.5 Groundwater availability assessment	16
5 BASELINE INFORMATION	16
5.1 Geology	16
5.1.1 Regional geology	16
5.1.2 Local geology	17
5.3 Hydrogeology	19
5.4 Potential contaminants	21
6 AQUIFER CLASSIFICATION	22
7 GROUNDWATER MODELLING	23
7.1 Software model choice	23
7.2 Model set-up and boundaries	23
7.3 Groundwater elevation and gradient	24
7.4 Groundwater sources and sinks	24
7.5 Model results	25
7.5.1 Groundwater flow model	25
8 GEOHYDROLOGICAL IMPACTS	25
9 CONCLUSIONS AND RECOMMENDATIONS	28
10 REFERENCES	29



List of Figures

Figure 1: Locality map of the proposed project.	8
Figure 2: Topology within the project area.....	9
Figure 3: Hydrology and topology of the prospecting right area.	10
Figure 4: Annual rainfall map.	11
Figure 5: Mean temperature map.....	12
Figure 6: Quaternary Catchment map.....	13
Figure 7: Geology of the prospecting right area.....	19
Figure 8: Aquifers of South Africa (Dippenaar, 2016).	20
Figure 9: Examples of Absorbent spill kit to be used.....	22
Figure 10: Aquifer classification of South Africa.	22

List of Tables

Table 1: Aquifer characterisation	22
Table 2: Possible source, pathways and receptors	24
Table 3: Groundwater impact assessment.....	26



1 INTRODUCTION

1.1 Background information

Singo Consulting (Pty) was appointed by Raycom Resources (Pty) Ltd to conduct a hydrogeological study for the Prospecting Right Application which has been submitted for the prospecting of Coal, Pseudocoal and Torbanite/ Oil Shale on the located on portion 1 and the remainder of the farm Dunolly No. 11 113-GU, portions 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and the remainder of the farm Canewdon Lodge No. 11 370-GU, portions 1, 2, 6, 8, 9, 10, 12, 13, 14 and the remainder of the farm Lot 221 Empangeni No. 10 379-GU, portions 3, 6, 7 and 8 of the farm Lot 197 Empangeni No. 12 418-GU and portion 2, 3, 8, the remainder of portion 5, and the remainder of farm Wilton Park No. 11 484-GU, situated in uMhlathuze Local Municipality under King Cetshwayo District Municipality, within Jurisdiction of Empangeni Magisterial District, Kwazulu-Natal Province, South Africa.

This report is not planned to be an intense description of the proposed project; however, it is conducted as a specialist provisional geohydrological study to evaluate the geohydrological impact the prospecting activity has on the environment.

1.2 Project location

A locality map created by QGIS software illustrates detailed and comprehensive information regarding the surrounding settlements and infrastructure of the proposed project area. The proposed project area is located approximately 14 km North-West of Richards Bay, approximately 1 km North of North-West of Empangeni and South to South-East of Ntambinamasi.



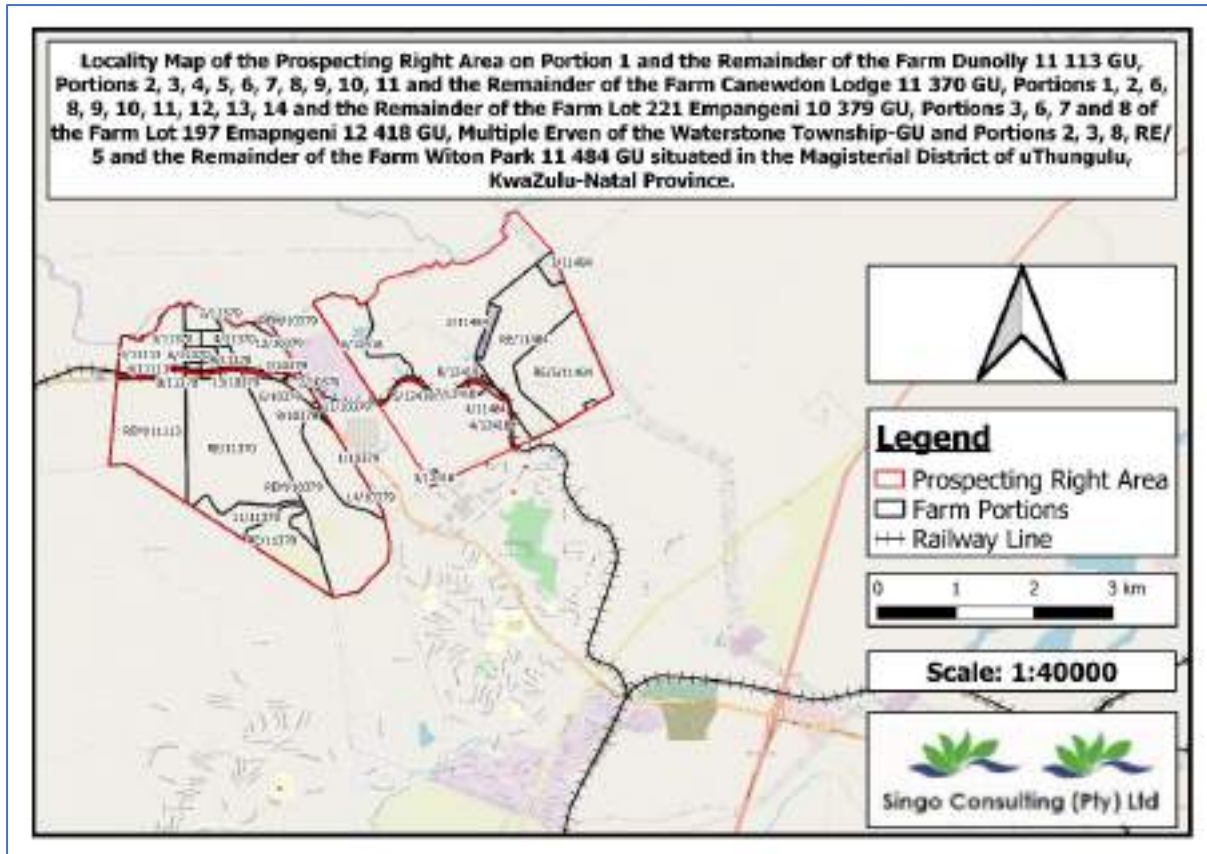


Figure 1: Locality map of the proposed project.

2 GEOHYDROLOGICAL SETTING.

2.1 Topography and drainage

Topography is the study of the shape and features of land surfaces. The topography of an area could refer to the surface shapes and features themselves, or a description (especially their depiction in maps). Topography is a field of geoscience and planetary science and is concerned with local detail in general, including not only relief but also natural and artificial features, and even local history and culture.

The flow of water during rainy seasons flows from the area of high elevation to the area of low elevation as it is indicated by contour lines. The topography of the project area is situated in a concave topography ranging from 80 - 200 mamsl as displayed by the contour lines on the topology map below.



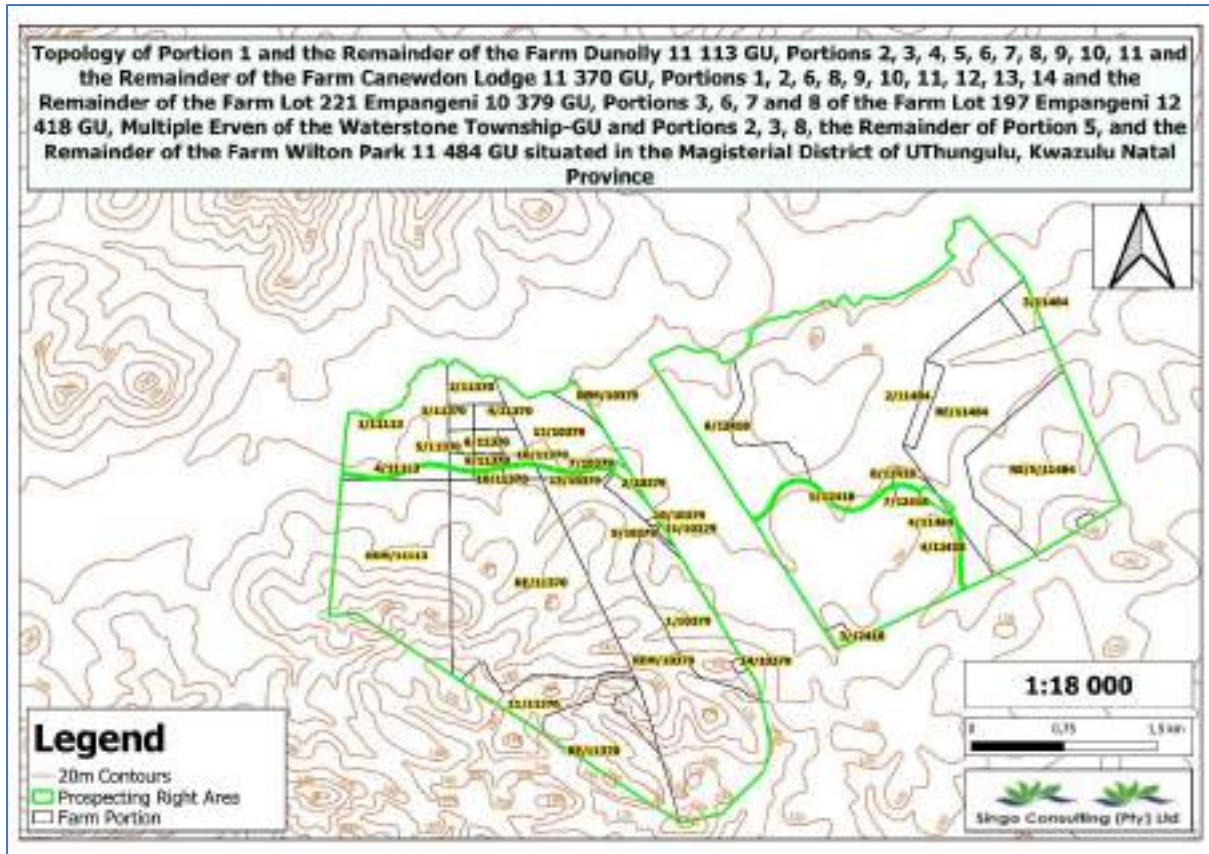







Figure 2: Topology within the project area.

The hydrology surrounding the proposed area is of vital importance as well. In this context hydrology is all the surface water appearing within and nearby the proposed project area, where a potential to be impacted upon by the project exist. The hydrology map, illustrates that the following water bodies exists within and nearby the project area:

-  Perennial river
-  Seep
-  Flat
-  Channelled valley-bottom wetland
-  Unchannelled valley-bottom wetland

These are important natural water resources that should not be disturbed by anthropogenic activities. For this project where prospecting right poses a risk on them, there should be measures and guidelines put in place that will protect the water resources in this area to ensure optimal conservation of water. The prospecting right will take place during dry seasons where the water percentages are exceptionally low in the water bodies. Drilling activity will not be



conducted near these water resources, the exploration geologists will be advised to drill and sample away from rivers and wetlands on site.

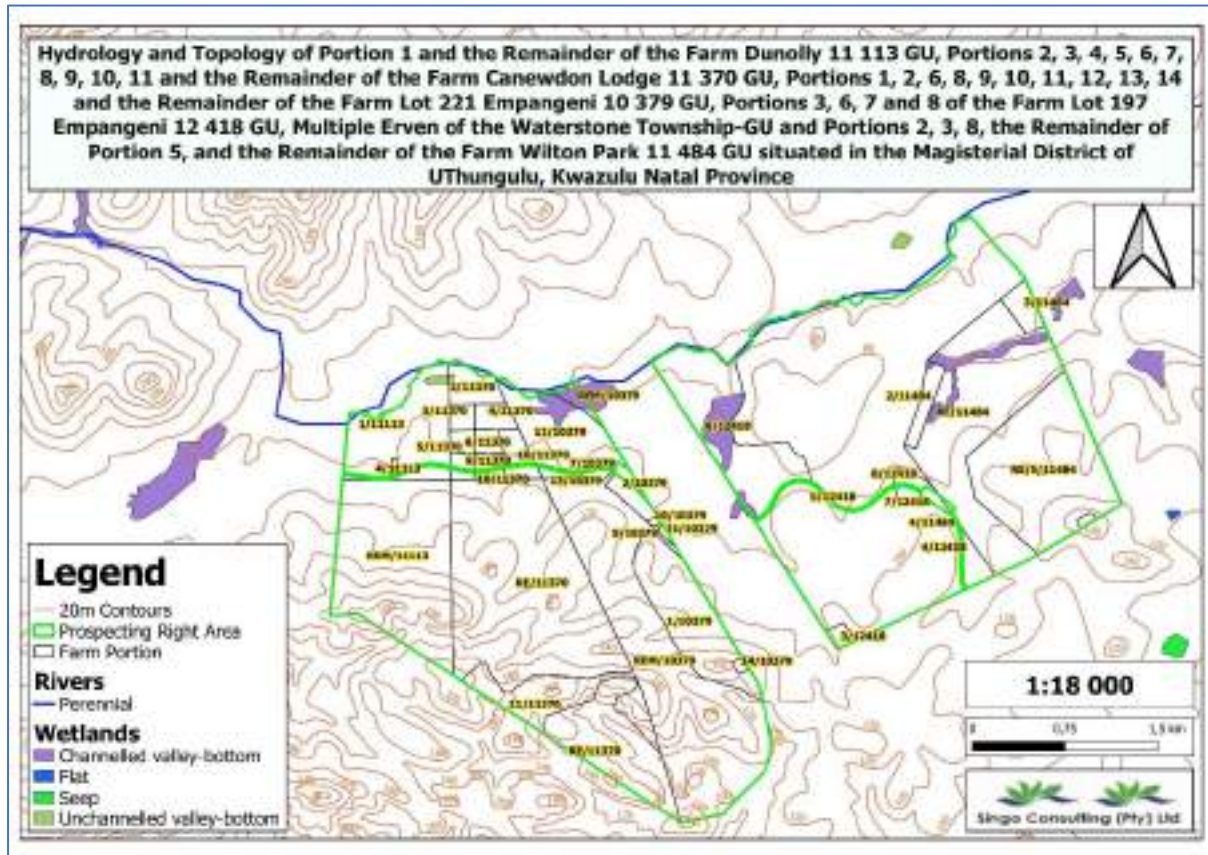


Figure 3: Hydrology and topology of the prospecting right area.

2.2 Climate

Empangeni is 121 m above sea level. The climate in Empangeni is warm and temperate. Empangeni has significant amount of rainfall during the year, even on the driest month. The Köppen-Geiger climate classification is Cfa. The average annual temperature is 21.7 °C and the annual rainfall is 944 mm. The driest month is June and it has precipitation of 42 mm. January has the most precipitation, with an average of 113 mm. February is the Warmest month with an average of 25 °C. July has the average temperature of 17.7 °C and it is the lowest average temperature of the year.

There is a difference of 71 mm of precipitation between the driest and wettest months. The variation in annual temperature is around 7.3 °C. (Source: <https://en.climate-data.org/africa/south-africa/kwazulu-natal/empangeni-715226/>).



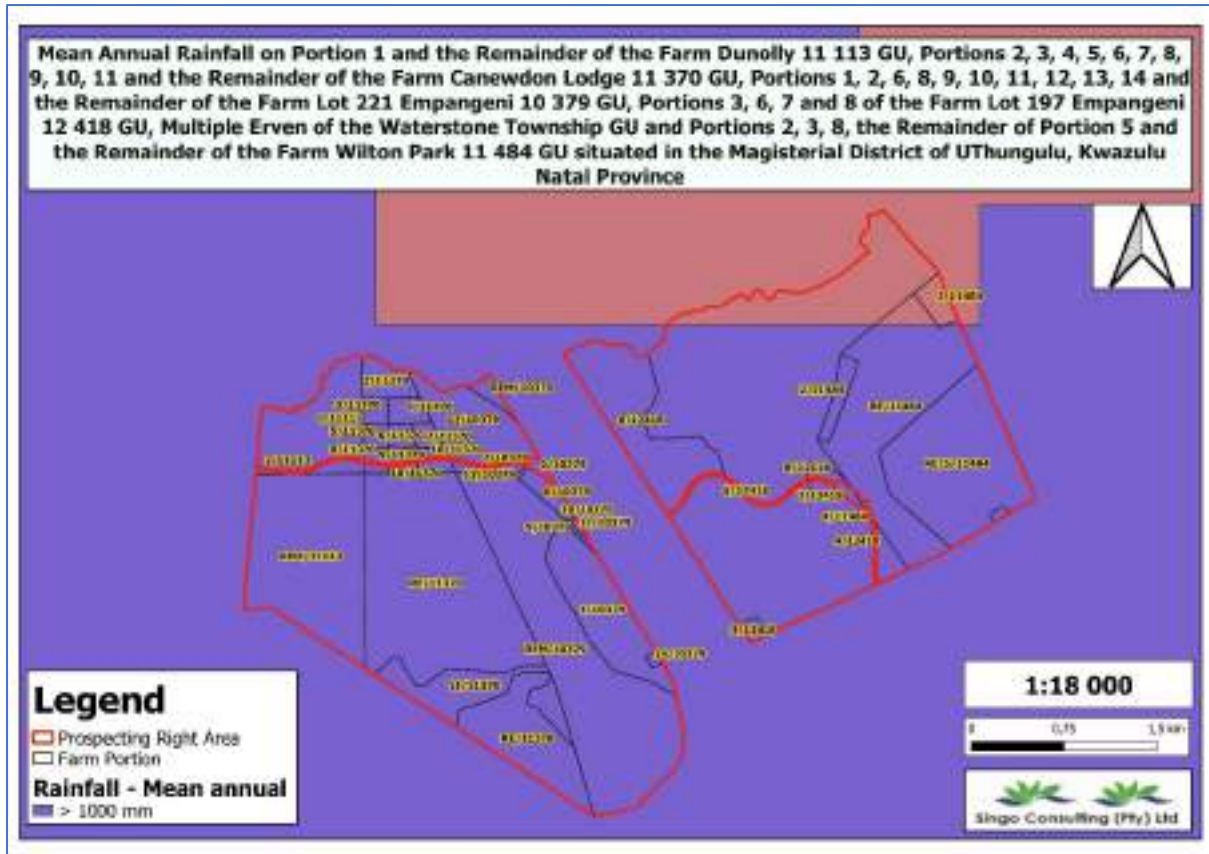


Figure 4: Annual rainfall map.



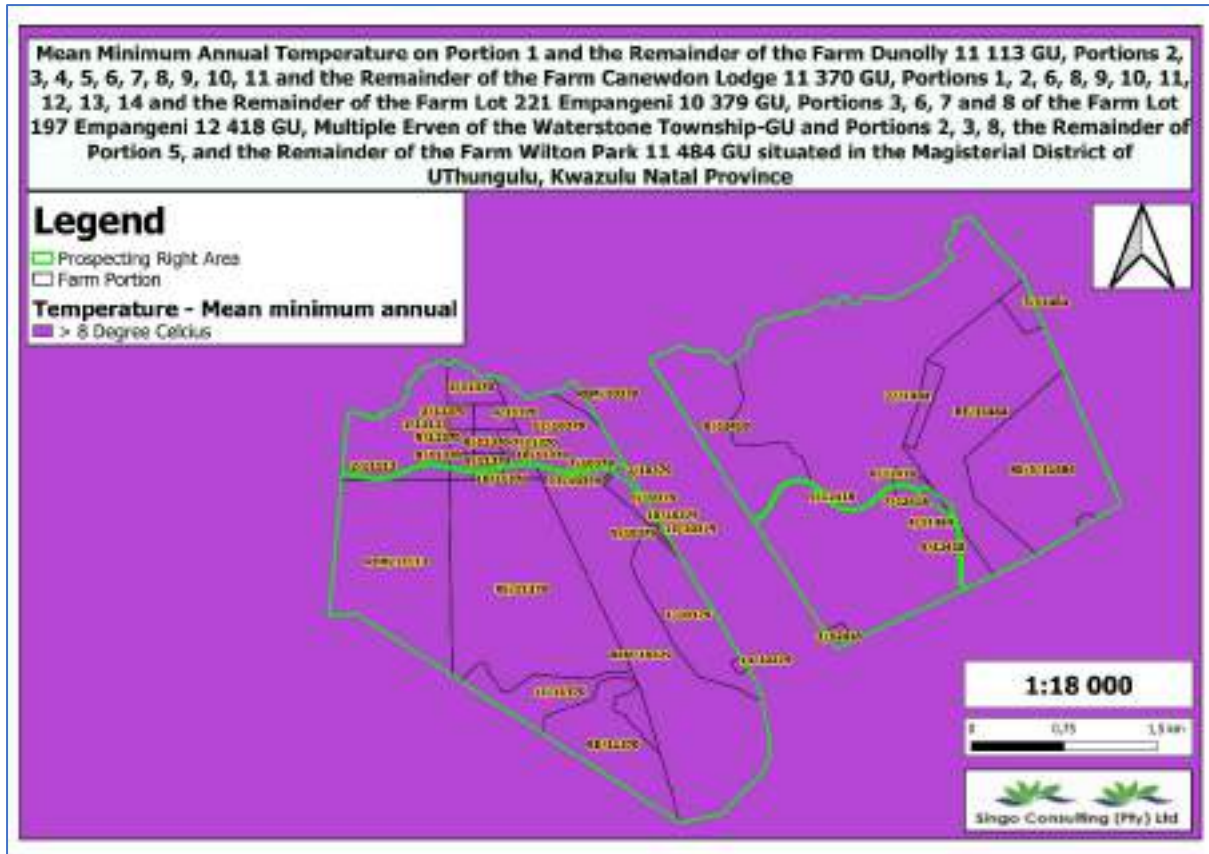


Figure 5: Mean temperature map

2.3 Catchment Description

The regional hydrological setting of the project site is indicated in figure 4. The project area is in the Pongola-Mtamvuna Management Area (WMA). The project area falls under the quaternary catchment of W12E, W12F and W12H. The WR2012 study, presents hydrological parameters for each quaternary catchment including area, mean annual precipitation (MAP) and mean annual runoff (MAR). Based on the WR2012 study, the project area falls within the quaternary catchment of W12E, W12F and W12H. The total catchment area of W12E is 399 km² with MAP of 1041 millimetre (mm). The total catchment area of W12F is 320 km² with MAP of 1285 millimetre (mm). The total catchment area of W12H is 485 km² with MAP of 1039 millimetre (mm).



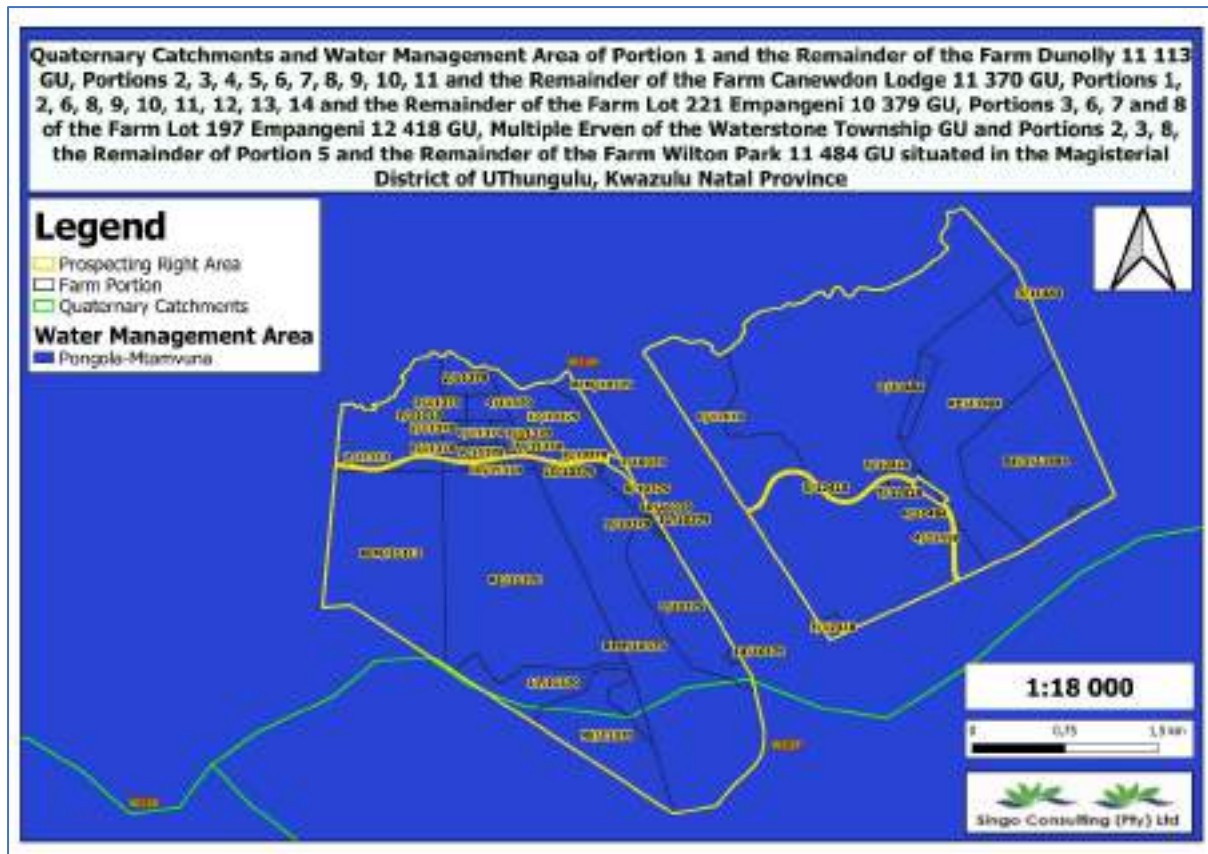


Figure 6: Quaternary Catchment map

3 SCOPE OF WORK

The following assignments were completed for this hydrogeological study:

1. Desktop Study

- Project Initiation and Data Collection
- Review available site specific hydrogeological and hydrological information to conceptualize the different aquifer systems and their interaction with surface water features in the area.

2. Hydrogeological Modelling

- Numerical Groundwater Flow and Transport Model
 - Model inputs
 - Model Calibration
 - Scenario Modelling
 - Hydrogeological Impact Assessment



- Use the model to predict potential mining impacts on the shallow and deep groundwater flow systems, groundwater seepages and spring discharges.

3. Reporting

Writing a comprehensive geohydrological report outlining all the findings and existing environment of the proposed project area. This groundwater specialist report compiles all methodologies, findings, quantitative analysis (geochemical assessment and modelling outcomes), impact assessments, recommendations (proposed monitoring programme and recommended mitigation measures for predicted impacts) and conclusions. The conceptual and numerical model development, simplifying assumptions and outcomes of predictive simulations is documented in accordance with the Standard Guide for Documenting a Ground-Water Flow Model Application (ASTM, 2006).

4. Site visits

Site visit is the most significant part of the investigation, site visits will be conducted as part of environmental assessment, to confirm the water bodies observed on the hydrological map and to take pictures of the current environmental condition before the commencement of prospecting.

5. Project Management and Meetings

As part of consultation process, meetings will be held once the landowner is identified and the community, to address the intention of Raycom Resources (Pty) Ltd to prospect Coal, Pseudocoal and Torbanite/Oil shale.

4 METHODOLOGY

4.1 Desktop study

A literature study of all available relevant data was performed to provide additional data where required. Data sourced from the literature study was incorporated into the entire research report and referenced accordingly. Data was sourced from: science literature (journals, textbooks, reports, maps etc.), GIS data available to the author from Singo Consulting (Pty) Ltd, DWS, SAWS weather station records and available relevant scientific work performed on the study area. A detailed list of all the sources of the literature incorporated into the research report is provided in the reference list.



4.2 Hydrocensus

The Hydrocensus main objective is to record the groundwater data available i.e. counting the number of boreholes if present, recording their names, conditions, coordinates as well as measuring the water levels. This helps to identify the baseline groundwater use and users within the study area. A detailed Hydrocensus is conducted on and around the site within the distance 2km radius from the project area to obtain a representative population of the boreholes in the area. During the Hydrocensus, all available details of boreholes and borehole-owners are collected and recorded.

4.3 Drilling and siting of boreholes.

The exploration boreholes will be drilled one at a time at various locations within the proposed project area. The depths of the drill holes will average 100 m and will be determined onsite whilst the drilling programme is underway as influenced by the depths and dips measured in other holes. A buffer of 500m will be kept from identified wetlands and rivers. A buffer of 100 meters will be kept from public roads.

The drill site will be fenced off, cleared, and drilled. Rehabilitation will occur immediately after drilling. As a site is drilled, it will be rehabilitated, and the drilling crew will move onto the next planned hole. This procedure will be followed until all the holes are drilled. Drilling will be conducted in consultation with the landowners. No other excavations, bulk sampling or pitting is planned throughout prospecting phase.

4.4 Groundwater modelling

During model setup, the conceptual model is translated into a numerical model. This stage entails selecting the model domain, defining the model boundary conditions, discretizing the data spatially and over time, defining the initial conditions, selecting the aquifer type, and preparing the model input data. The above conditions together with the input data are used to simulate the groundwater flow in the model domain for pre steady state conditions.

Conceptual model

A conceptual model is a simplification of the complex real system down to familiar aspects that can easily be solved. This conceptual model is just a step prior to a solution model which can either be analytical or numerical.



Numerical model

Numerical groundwater modelling consists of flow and transport modelling types. Groundwater flow modelling can be represented by finite difference method or finite element. In this project finite difference method is used. The chosen software is MODFLOW.

4.5 Groundwater availability assessment

The fractured aquifer system (~ 15 to 40m) present in the fresh rock below the weathered zone are well cemented, and do not allow significant water flow. All groundwater movement therefore occurs along secondary structures such as fractures, cracks, and joints in the rock. These structures are best developed in sandstone and quartzite; hence the better water yielding properties of the latter rock type.

5 BASELINE INFORMATION

5.1 Geology

5.1.1 Regional geology

The Eccca Group is a sedimentary geological unit that comprises mostly of dark clastic sedimentary strata such as shale, siltstone, fine to very coarse, pebbly sandstone and economically significant coal in the Vryheid formation with minor coal in the Volksrust Formation. These sediments were deposited under aqueous to sub-aqueous reducing conditions and have been interpreted as marine, lacustrine, deltaic and fluvial deposits (po. cit). The Eccca Group attains its maximum 3000m thickness in the southern part of the Karoo Basin (Catuneanu, 1986). Generally, the Eccca Group consists of dark grey, carbonaceous mudrocks, with lamination and displaying weathering. Almost all of South Africa's coal resources and one-third of the coal resources in the southern hemisphere are from the rocks of the Eccca Group. The coal seams is described to be horizontal throughout in the Main Karoo Basin except where the seams are associated with dolerite intrusions. The distribution, lateral extent, thickness and maceral content of these coal seams are controlled by basin tectonic and differential subsidence.

Beaufort Group sediments were deposited in an intracratonic basin receiving detritus from a source area located to the south and west (Ryan 1967, Martini 1974, Turner 1975). Sedimentation was initiated by source area uplift (especially in the south), possibly due to collision between two lithospheric plates reproducing a cordilleran type orogenic event as predicted by modern plate tectonic theory (Dewey and Bird 1970) . The sediments consist mainly of mudstones, siltstones and sandstones, and along the southern margin of the basin they have been caught up in the Cape Orogeny and extensively folded. Northwards the

16



folding decreases in intensity and dies out completely on approaching the northern boundary of the study area where the sediments are flat-lying.

The **Beaufort Group** lies conformably on the **Ecca Group**, the contact between them records a gradual change from a deltaic depositional system to a fluvial depositional system in response to source area uplift and the northward progradation of Beaufort sediments, accompanied by a gradual shallowing and shrinkage of the Ecca Basin in the same general direction. Thus argillaceous sediments assigned to the **Ecca Group** in the northern part of the basin may be the time equivalent of the **Beaufort Group** in the south (Turner 1978) and the boundary on a basinwide scale must be diachronous.

The Ecca-Beaufort boundary is generally defined and mapped on the basis of the first occurrence of red and purple mudstones characteristic of the **Beaufort Group**. Unfortunately this definition cannot be applied in many areas because of the sporadic distribution of red and purple mudstones in the lower part of the Beaufort succession, as pointed out by Ryan (1967). A more reliable and accurate indication of the boundary is the presence of thick, laterally persistent sandstones of delta front origin that Johnson (1976) included in his Waterford Formation at the top of the **Ecca Group**. These sandstones can be distinguished from those in the Beaufort on the basis of their internal structure (presence of deformation structures and lack of cross-bedding), coarsening-upwards as opposed to fining-upwards grain-size trends, and the interbedded shales, which are generally darker, more carbonaceous and better laminated than the argillaceous rocks in the Beaufort

5.1.2 Local geology

Emakwezini Formation

The Emakwezini Formation, which is the sole representative of the Beaufort Group in the southern half of the Lebombo Basin, is restricted to a narrow, faulted, meridional outcrop and subcrop belt in Swaziland and north-eastern KZN. The unit is also present in the subsurface along the western side of the Lebombo Basin from Empangeni to at least as far north as Komatipoort (Bordy and Prevec, 2008). It is estimated that the Emakwezini Formation attains a thickness of ± 490 m near the village of Somkele (Marshall, 1966), although Bordy and Prevec (2008) provide a figure of 570 m, which is more similar to the figures of ± 550 m to the west of Somkele and at Emakwezini (Watson and McGeorge, 1977). Genis (1961) notes that it thins southwards to ± 370 m west of Empangeni; however, according to Du Preez (1982), the Emakwezini Formation is ± 500 m thick in this area. North of the Somkele Coalfield the Emakwezini Formation thins dramatically, attaining a thickness of only 130-150 m in Swaziland (Davies, 1961) and near Komatipoort (Du Toit, 1918). Lithologically the Emakwezini Formation is



dominated by fossiliferous, grey, greenish-grey and brown mudstones, with intercalated coal seams, subordinate white or yellow-white, and medium- to coarse-grained feldspathic sandstones. The coal seams are associated mainly with the mudstones and whilst usually less than 1 m thick, they may locally attain thicknesses of up to 15 m.

The Volksrust Formation

The **Volksrust Formation** is a transgressive argillaceous succession that conformably overlies the Vryheid formation. The formation was formed during a basinal transgression followed by regression and it comprises of 150 – 250m of dark siltstone or mudstone (SACS, 1980). The rock sediments are fine-grained overall, indicating that the rock sediments were deposited in both lacustrine to lagoonal and shallow coastal setting. The Volksrust Formation immediately underlies the Emakwezini Formation of the Beaufort group.

Granite gneiss formation

The Granite Gneiss Formation is located in the Natal sector of the Proterozoic Namaqua-Natal Mobile Belt, about 10 km southwest of Empangeni. It forms a prominent east-west trending elongate whalebacked massif some 30 km in length, within amphibolitic gneisses and schists of the Tugela Group. A suite of twelve different, gneissic granitoids has been recognised within the Formation on the basis of field relationships, mineralogy and supportive geochemistry. They range in composition from peraluminous syenite to peralkaline granite. Peraluminous varieties are typically muscovite and garnet-bearing whereas metaluminous granites in the formation contain olivegreen biotite and/or hornblende and sphene. Riebeckite, aegerine and yellow-brown biotite, with accessory fluorite and zircon are characteristic of the peralkaline granites.

Letaba Formation

Within Kruger National Park, the Letaba River is underlain by granite and granitic gneiss as well as volcanic rocks of the Karoo Supergroup which form part of the sediment source within the river (Heritage et al., 2001) (Fig. 2.3). The Letaba River flows over Karoo volcanic rocks of the Lebombo monocline which consists of the **Letaba Basalt Formation**, Sabie River Basalt Formation, Jozini Rhyolite Formation and Karoo sediments (Erlank, 1984). The basalt of the **Letaba Basalt Formation** is made of olivine and pyroxene and contains oxides and trace elements of potassium, titanium, rubidium and barium (Erlank, 1984). The olivine present in the basalt of the **Letaba Basalt Formation** is very rich in magnesium and is referred to as picrate, due to its high magnesium content and is present as large phenocrysts of olivine (Bristow et al., 1989).



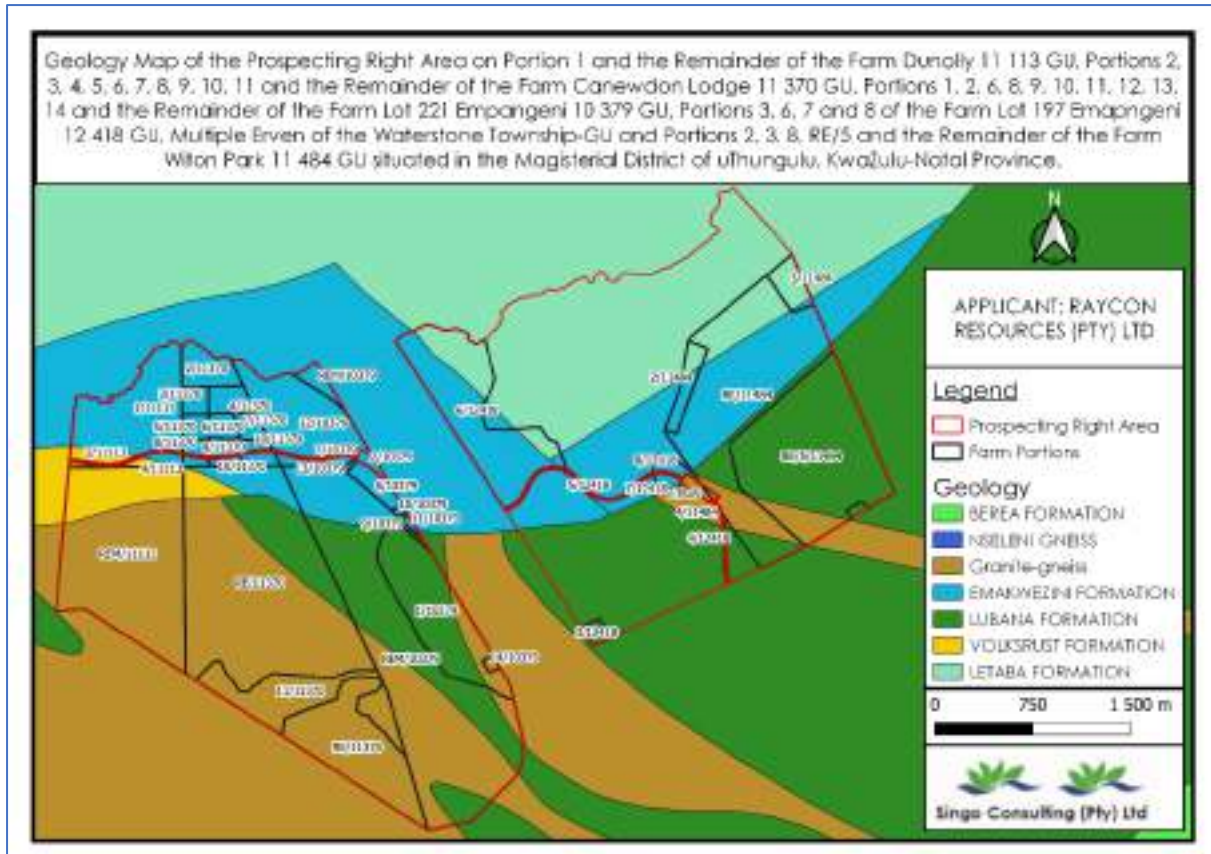


Figure 7: Geology of the prospecting right area

5.3 Hydrogeology

Typically, five distinct aquifer types:

- Basement (fractured Achaean-Proterozoic igneous/ metamorphic)
- Hard rock (e.g. Table Mountain TMG, Waterberg and Natal Groups sandstone; fractured)
- Karst/ dolomite (dissolution)
- Karoo (fractured and influenced by dykes)
- Porous (intergranular Quaternary alluvial, coastal, Aeolian and other surficial unconsolidated deposits)

The study area falls under **the hard (e.g. Table Mountain TMG, Waterberg and Natal Groups sandstone; fractured)**. For effective borehole yields, the boreholes must target the fracture zones in this area.



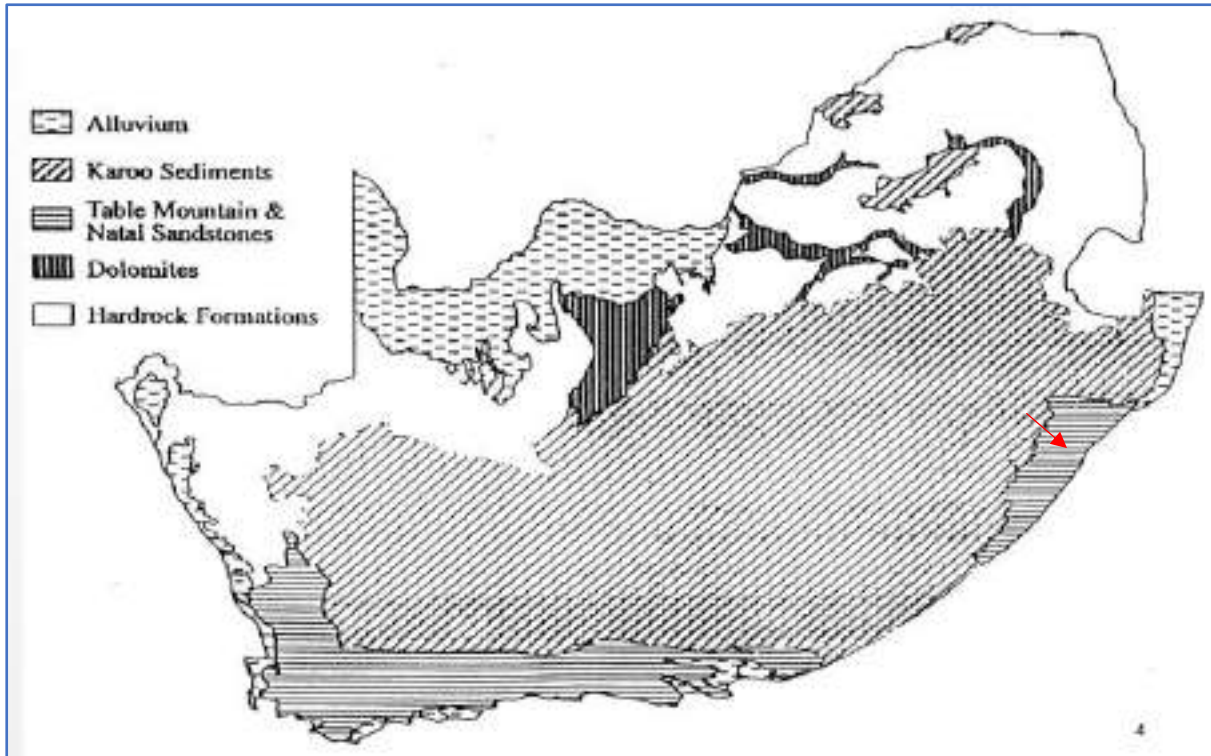


Figure 8: Aquifers of South Africa (Dippenaar, 2016).

The study area is situated within the Emakwezini Formation of the Beaufort Group (Karoo Supergroup). The area has been structurally deformed, with the main structures consisting of block type normal faulting. As a result of the faulting, tilting of strata took place with the direction of dip in a south-easterly direction (average strike of strata is 30°). The general angle of dip of strata in the area of the mine is 22°. Associated with these block faults and related structures, are various dolerite sills and dykes of different ages. These aquifers have no to low potential in terms of development due to these factors, and are of minor regional importance. Therefore, the aquifer can be classified as a Minor Aquifer System according to the Parsons Classification method (Parsons, 1995).

Recorded water strikes (intersection of aquifers) vary between 12 to 102 mbgl for the Karoo aquifers. Shallow groundwater occurrence (<10 mbgl) is associated with younger (post-Karoo age) unconsolidated alluvial sediments, close to major streams. The average depth of weathering in the Karoo age rocks is ±11 m, with recorded weathering up to 25 m deep. Most water strikes were encountered below the weathered zone. It can be assumed that weathered aquifers are of minor importance (from an aquifer supply point of view), especially in the higher ridges. Perched weathered aquifers are likely to form during wet periods and shallow wells have been reported in the lower lying areas, close to streams.



The groundwater within the deeper fractured rock aquifer occurs within discrete zones due to secondary processes such as fracturing, faulting and contact metamorphism along intrusive rock contacts. These aquifers, with the exception of regional faults, normally have a limited extent and interconnectivity. Borehole blow yields from fractured aquifers according to the boreholes drilled in this area are highly variable, ranging from dry to 2.5 l/s.

5.4 Potential contaminants

The potential contaminants for the prospecting of Coal, Pseudocoal, and Torbanite/ Oil Shale is minimal and can be controlled easily as this activity will only take place for a short period of time. Fuel and oil handling facilities are likely sources of hydrocarbon related contaminants. Oils, grease, and other hydrocarbon products (such as petrol and diesel) handled in these areas may contaminate the environment by spillages and leakages (e.g., from drill rigs).

Absorbent Spill kits will be made available near the drill rigs during drilling activities refer to figure 9. The oil absorbent chemicals will ensure that no oils infiltrate down to the underground to cause any groundwater contamination.



Figure 9: Examples of Absorbent spill kit to be used.

6 AQUIFER CLASSIFICATION

The figure below illustrates aquifer classification of different areas in South Africa. It can be deduced that the project area pointed by the red arrow comprises of minor aquifers and the dominant water source is a surface water. Table 1 interprets the meaning of the aquifer classification and when an area is said to have a minor aquifer it means that the aquifer is Moderately yielding aquifer of acceptable quality or high yielding aquifer of poor-quality water.

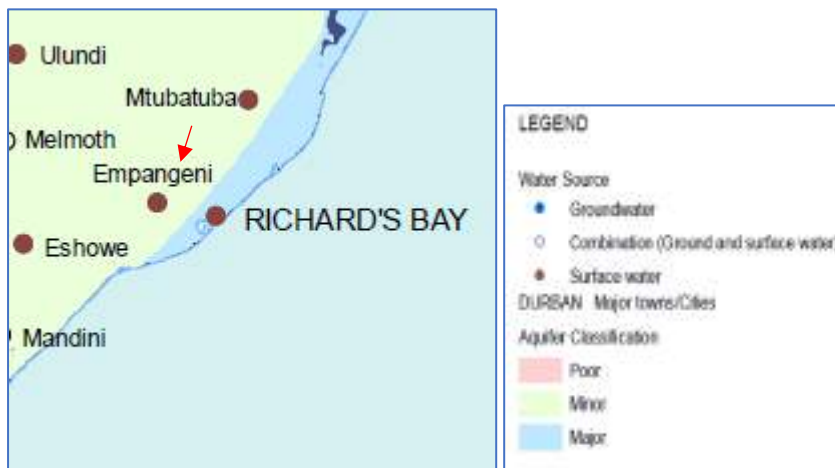


Figure 10: Aquifer classification of South Africa.

Table 1: Aquifer characterisation

Aquifer	Description
Sole source aquifer	An aquifer used to supply 50% or more of urban domestic water for a given area, for which there are no reasonably available alternative sources should this aquifer be impacted upon or depleted.
Major region aquifer	High-yielding aquifer of acceptable quality water.
Minor region aquifer	Moderately yielding aquifer of acceptable quality or high yielding aquifer of poor-quality water.
Poor region aquifer	Insignificantly yielding aquifer of good quality or moderately yielding aquifer of poor quality, or aquifer that will never be utilized for water supply and that will not contaminate other aquifers.
Special region aquifer	An aquifer designated as such by the Minister of Water



7 GROUNDWATER MODELLING

7.1 Software model choice

MODFLOW software is the chosen software to model groundwater flow and contaminant transport in this situation. The finite difference numerical model was created using the US Department of Defence Groundwater Modelling System (GMS9.2) as Graphical User Interface (GUI) for the well-established MODFLOW and MT3DMS numerical codes.

MODFLOW is a 3D, cell-centred, finite difference, saturated flow model developed by the United States Geological Survey. MODFLOW can perform both steady state and transient analyses and has a wide variety of boundary conditions and input options. It was developed by McDonald and Harbaugh of the US Geological Survey in 1984 and underwent eight overall updates since. The latest update (MODFLOW-NWT) incorporates several improvements extending its capabilities considerably, the most important being the introduction of the Newton formulation of MODFLOW. This dramatically improved the handling of dry cells that has been a problematic issue in MODFLOW in the past.

MT3DMS is a 3-D model for the simulation of advection, dispersion, and chemical reactions of dissolved constituents in groundwater systems. MT3DMS uses a modular structure similar to the structure utilized by MODFLOW and is used in conjunction with MODFLOW in a two-step flow and transport simulation. Heads are computed by MODFLOW during the flow simulation and utilized by MT3DMS as the flow field for the transport portion of the simulation.

Elevation data is crucial for developing a credible numerical model, as the groundwater table in its natural state tends to follow topography. The best currently available elevation data is derived from the SRTM (Shuttle Radar Tomography Mission) DEM (Digital Elevation Model) data. The SRTM consisted of a specially modified radar system that flew on board the Space Shuttle Endeavour during an 11-day mission in February of 2000, during which elevation data was obtained on a near-global scale to generate the most complete high-resolution digital topographic database of Earth. Data is available on a grid of 30 meters in the USA and 90 meters in all other areas.

7.2 Model set-up and boundaries

During model setup, the conceptual model is translated into a numerical model. This stage entails selecting the model domain, defining the model boundary conditions, discretizing the data spatially and over time, defining the initial conditions, selecting the aquifer type, and preparing the model input data. The above conditions together with the input data are used to simulate the groundwater flow in the model domain for pre steady state conditions.



7.3 Groundwater elevation and gradient

- Constant head boundary conditions on west and east boundaries
- Single layer aquifer of 30 m thickness
- Hydraulic head of 10 m along western boundary and 30 m along the eastern boundary
- Uniform hydraulic conductivity of 0.001 m/d

7.4 Groundwater sources and sinks

Following the characterization of the aquifers, contaminant sources and groundwater receptors, the conceptual model was transformed into a numerical model so that the groundwater flow conditions, and mass transport can be solved numerically. A conceptual model is a simplified, but representative description of the groundwater system that illustrates the interaction of the sources, pathways, and receptors at the site.

- The **sources** represent any entity that contributes to the groundwater quantity and/or quality
- The **pathways** are the aquifers through which the groundwater and contaminants migrate and
- The **receptors** are humans, rivers or natural ecosystems that depend on the groundwater and will be impacted negatively if the water is depleted by dewatering or is contaminated.

Table 2: Possible source, pathways and receptors

Potential Sources	Pathways	Receptors
<ul style="list-style-type: none"> ■ Fuel & hydrocarbon spills ■ Core-Drilling 	<ul style="list-style-type: none"> ■ Vadose zone ■ Groundwater ■ Sediment erosion 	<ul style="list-style-type: none"> ■ Aquatic life ■ Terrestrial Wildlife ■ Vegetation ■ Humans



7.5 Model results

Prior to the drilling of the prospecting boreholes, a baseline steady state groundwater flow model was set-up and calibrated. The objective of the steady state model is to simulate the undisturbed groundwater system in the region prior to commencement of prospecting activities. The impacts of the prospecting activities can then be determined by comparing the transient state results with the steady state results. Groundwater flow model was developed to determine the flow direction as well as flow velocity of water before any disturbances to the natural environment.

7.5.1 Groundwater flow model

Before any activity can take place, the surrounding environment and the groundwater will not be affected by solute contamination. The concentration of possible contaminants is assumed to be zero, therefore we will only have a groundwater flow model illustrating how the groundwater is flowing before any activity commence.

8 GEOHYDROLOGICAL IMPACTS

During the prospecting phase of Coal, Pseudocoal and Torbanite/ Oil Shale the following impacts are envisioned:

- Clearing of vegetation leading to increased runoff and less infiltration.
- Diesel and oil spillages from the drill rig
- Increase in volume of contaminated water that needs to be managed within the footprint.
- Erosion of stream banks as a result of crossings and diversions leading to siltation of the stream

During the prospecting period, the following management measures will apply:

- All spillages will need to be cleaned up as soon as practically possible.
- Providing spill absorbing material
- All equipment utilizing hydrocarbons will be stored on a hard-standing surface.
- Vehicles and machinery will be maintained in good order to minimize leakages.



Table 3: Groundwater impact assessment

Prospecting right impact assessment table						
Name of Company: Singo Consulting (Pty) Ltd			Sector: Environmental Consulting firm			
Department: Land and water division						
Risk Assessment						
Potential environmental impact	Cause of the impact	Recommended measures/remarks for mitigation	Impact risk before mitigation	Impact risk after mitigation	Responsible person(s)	When mitigation should be implemented
Fuel & hydrocarbon spills	Drill rig, trucks, and cars	Clean up immediately after accidental spills & Divert run-off. Providing spill absorbing material All equipment utilizing hydrocarbons will be stored on a hard-standing surface. Vehicles and machinery will need to be maintained in good order to minimize leakages.			The project management team	During the prospecting activities
Aquifer contamination	During drilling exploration boreholes	<ul style="list-style-type: none"> Install casing and rehabilitate the exploration boreholes Take water samples from the drilled boreholes 			The project management team	After drilling
Clearing of vegetation leading to increased runoff and less infiltration	During pegging, and preparation of the drilling yard	<ul style="list-style-type: none"> Rehabilitate the site by using a hoe to dug the compacted soil or a tractor. 			The project management team	After pegging and drilling



Surface water contamination	<ul style="list-style-type: none"> Washing of working equipment machinery Using water from the river to operate the drill rig 	<ul style="list-style-type: none"> Avoid drilling near surface water Do not wash equipment and vehicles at or near water bodies Conduct prospecting during dry seasons when the water percentages in wetlands and rivers are very low All the wetlands and rivers will need to be buffered as no go area 			The project management team	During prospecting period
Erosion of stream banks as a result of crossings and diversions leading to siltation of the streams	During prospecting activities like logging and sampling	Do desktop study and avoid working near the water bodies			Prospecting team	During the prospecting phase
Soil compaction	During constructing gravel roads to access the site	Rehabilitate these roads by digging with tractors and ploughing vegetation			The project management team	After the prospecting phase
Water and soil contamination	Core logging	The core logs of boreholes with mineral of interest should be cleared from the ground immediately after logging by the geologists to prevent washing and leaching to the water resources during rainfall			The project management team	After the prospecting phase

Impact Classification

Low environmental impact.	Medium environmental impact	High environmental impact	Very High environmental impact
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9 CONCLUSIONS AND RECOMMENDATIONS

- It can be concluded that the prospecting activity will cause minimal impact on the water resources as the mitigation measures will strictly be implemented at the commencement of the project. The prospecting right activity will take place during dry seasons where the water percentages in the surrounding streams are exceptionally low.
- Drilling activity will not be conducted within 500m from watercourses, the exploration geologists will be advised to drill and sample more than 500m from rivers and wetlands on site.
- The exploration boreholes must be cased during drilling and properly rehabilitated by cap sealing the borehole after drilling.
- Extreme caution will be taken during prospecting, owing to the river and numerous wetlands existing within and nearby the project area. No washing of any mechanical equipment or vehicles will be allowed near the water resources.
- Rivers and wetlands will be buffered as no go area, a 500m buffer will apply.
- The core logs of boreholes with mineral of interest should be cleared from the ground immediately after logging by the geologists to prevent washing and leaching to the water resources during rainfall.
- Absorbent Spill kits will be made available near the drill rigs during drilling activities.



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PROSPECTING RIGHT HYDROLOGICAL STUDY

HYDROLOGICAL REPORT FOR RAYCOM RESOURCES, LOCATED IN UMHLATHUZE LOCAL MUNICIPALITY, KWAZULU-NATAL PROVINCE, SOUTH AFRICA

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DMRE REF: **KZN 30/5/1/1/2/11025 PR**

2021

PROJECT INFORMATION

Report Type	Prospecting Right Hydrological Report
Project Title:	Hydrological Report for Raycom resources, Located in Umhlathuze Local Municipality, Kwazulu-Natal Province, South Africa
Client:	Raycom resources
Site Location:	Kwazulu-Natal Province, South Africa
Version:	1
Date:	19 May 2021

Electronic signatures		
Compiled By	Connie Sigauke (Junior Hydrogeologist) Singo Consulting (Pty) Ltd	
Reviewed By		
Final Review and Approval	Dr. Kenneth Singo (Principal Consultant of Singo Consulting (Pty) Ltd) South African Council for Natural Scientific Professions (SACNASP: Earth Science Reg. No: 400069/16),	



REPORT CREDENTIALS

Disclaimer:

The results and conclusions of this report are limited to the Scope of Work agreed between Singo Consulting (Pty) Ltd and Raycom Resources for whom this investigation has been conducted. All notions made and all knowledge contained within this report and its attachments hinge on the convenience to and dependability of relevant information, including maps, previous reports and word-of-mouth, from the Client and affected parties. All work conducted by Singo Consulting (Pty) Ltd is done in accordance with the Singo Consulting (Pty) Ltd Standard Operating Procedures.

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EXECUTIVE SUMMARY

Singo Consulting (Pty) Ltd was designated by Raycom Resources as an independent consulting company to conduct a hydrological study. The hydrogeological study is being conducted to endorse a prospecting right application for Raycom Resources, located in Umhlathuze Local Municipality, Kwazulu-Natal Province, South Africa.

Terms of Reference

This project involves the compilation of a specialist surface water report for the proposed prospecting right project. This includes the following aspects:

- ❖ Baseline assessment.
- ❖ Impact assessment and mitigation measures.

Environmental Legislation - DWAF Government Notice 704

Government Notice 704 (Government Gazette 20118 of June 1999) (hereafter referred to as GN 704), was established to provide regulations on the use of water for mining and related activities aimed at the protection of water resources. The proposed prospecting project is not an actual mining activity at its current stage, it is however a related activity; and listed under GN 704. Therefore, the proposed infrastructure is designed in accordance with GN 704, and the following design principles are applicable:

- ❖ Condition 4
 - ✓ Defines the area in which mine workings or associated structures may be located, with reference to a watercourse and associated flooding.
 - ✓ Any residue deposit, dam, reservoir together with any associated structure or any other facility should be situated outside the 1:100-year flood-line.
 - ✓ Any underground or opencast mining, prospecting or any other operation or activity should be situated or undertaken outside of the 1:50 year flood-line.
 - ✓ Where the flood-line is less than 100 metres away from the watercourse, then a minimum watercourse buffer distance of 100 metres is required for infrastructure and activities.
- ❖ Condition 5
 - ✓ Indicates that no residue or substance which causes or is likely to cause pollution of a water resource may be used in the construction of any dams, impoundments or embankments or any other infrastructure which may cause pollution of a water resource.



Hydrological study for Raycom Resources for Prospecting Rights Application of Coal,
Pseudocoal and Torbanite/ Oil Shale

- ❖ Condition 6
 - ✓ Describes the capacity requirements of clean and dirty water systems.
 - ✓ Clean and dirty water systems must be kept separate and must be designed, constructed, maintained and operated to ensure conveyance of flows of a 1:50 year recurrence event.
 - ✓ Clean and dirty water systems should not spill into each other more frequently than once in 50 years.
 - ✓ Any dirty water dams should have a minimum freeboard of 0.8 m above full supply level.
- ❖ Condition 7
 - ✓ Describes the measures which must be taken to protect water resources.
 - ✓ All dirty water or substances which may cause pollution should be prevented from entering a water resource (by spillage, seepage, erosion etc) and ensure that water used in any process is recycled as far as practicable.
- ❖ Condition 10
 - ✓ Describes the requirements for operations involving extraction of material from the channel of a watercourse.
 - ✓ Measures should be taken to prevent impacts on the stability of the watercourse; prevent scour and erosion resulting from operations; prevent damage to in-stream habitat through erosion, sedimentation, alteration of vegetation and flow characteristics; construct treatment facilities to treat water before returning it to the watercourse; and implement control measures to prevent pollution by oil, grease, fuel and chemicals.

Methodology

A desktop study was conducted to evaluate current and previous land uses to assess the implications for hydrological contaminations. The methods that were used to establish groundworks for this study include:

- ❖ QGIS 2.14.9 software for Geographic Information Systems (GIS) works
- ❖ Design Rainfall Estimation package (Smithers and Schulze, 2003) for the design of rainfall depth.
- ❖ Site visits for:
 - ✓ Obtaining information on normal flow rates, river health and potential factors that could influence the hydrological modelling of flows.



Hydrological study for Raycom Resources for Prospecting Rights Application of Coal,
Pseudocoal and Torbanite/ Oil Shale

- ✓ Identifying the likely surface water impacts associated with the planned prospecting development and recommendation of possible mitigation measures to reduce the impacts.

OUTCOMES OF THE INVESTIGATION

- ❖ The project area is situated in a flat-lying topographical range with an elevation of ~50 - 650 mamsl.
- ❖ Drilling activities will not be conducted near water resources; and a 500m buffer will apply to all the wetlands, perennial and non-perennial rivers.
- ❖ Absorbent Spill kits will be made available near the drill rigs during drilling activities.
- ❖ The core logs from exploration boreholes will be cleared from the ground immediately after logging to prevent washing and leaching onto the water resources during rainfall.
- ❖ Extreme caution will be taken during prospecting, therefore, washing of any mechanical equipment or vehicles will not be allowed near the water resources.
- ❖ Water samples will be taken from selected exploration boreholes using approved sampling techniques and adhering to recognized sampling procedures.
- ❖ Samples will be analysed for both organic and inorganic pollutants since mining activities often lead to hydrocarbon spills in the form of diesel and oil.
- ❖ The numerical model will be recalibrated as soon as more hydrogeological data such as monitoring holes are made available, this will enhance the model predictions and certainty.
- ❖ After prospecting, rehabilitation of the disturbed area will commence.



1.INTRODUCTION

1.1. Background Information

Singo Consulting (Pty) was designated by Raycom Resources as an independent consulting company to conduct a hydrological study. The hydrological study is being conducted to endorse a prospecting right application for Raycom Resources, located in Umhlathuze Local Municipality, Kwazulu-Natal Province, South Africa.

The prospecting Right Application is submitted for the prospecting of Coal, Pseudocoal and Torbanite/Oil Shale on portion 1 and the Remainder of Dunolly farm (No.11, 113-GU), portions 2, 3, 4, 5, 6, 7, 8, 9, 10, and 11; the Remainder of the farm in Canewdon Lodge (No.11, 370-GU), portions 1, 2, 6, 8, 9, 10, 11, 12, 13, and 14; the Remainder of the farm in Lot 221 Empangeni (No.10, 379-GU), portions 3, 6, 7; Portion 8 of the farm in Lot 197 Empangeni (No.12, 418-GU); Multiple Erven of the Waterstone Township-GU, portions 2, 3, 8, and the Remainder of portion 5; and lastly, the Remainder of Wilton Park farm (No.11, 484-GU).

This report is not an intense description of the proposed project; however, it is presented as a provisional specialist hydrological study to evaluate surface water studies, providing the surface water information required for the environmental authorisations of the proposed prospecting project.

1.2. Project Location

Figures 1 and 2 are locality maps with comprehensive information pertaining to the surrounding settlements and infrastructures in the proposed project area. The proposed prospecting area is situated approximately 14 km North-west of Richards Bay, approximately 1 km North to North-West of Empangeni and South to South-East of Ntambinamasi, in the Umhlathuze local municipality, under King Cetshwayo District Municipality, within the Jurisdiction of Empangeni Magisterial District, KwaZulu-Natal Province.



Hydrological study for Raycom Resources for Prospecting Rights Application of Coal, Pseudocoal and Torbanite/ Oil Shale



Figure 1: Google Earth Map of the Proposed prospecting Project Area.

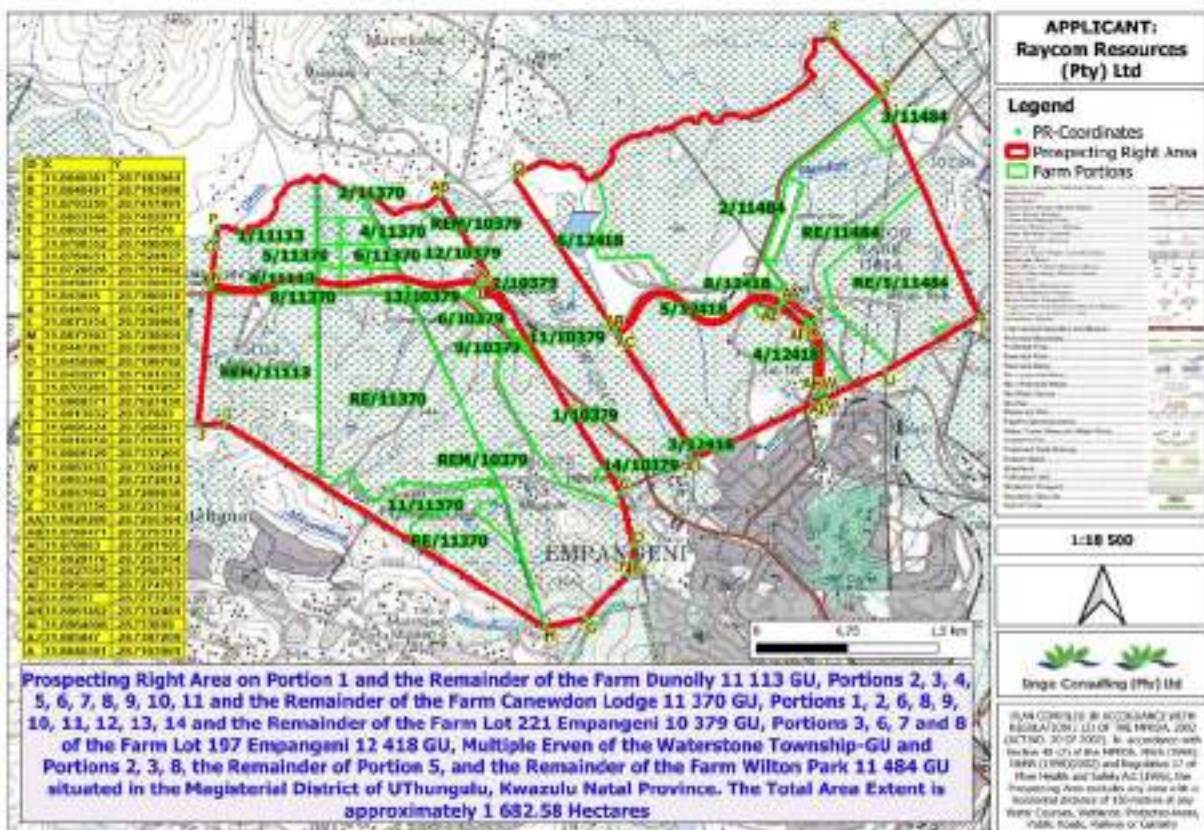


Figure 2: Regulation 2(2) Map of the Proposed Project Area.



1.3. Aims and Objectives of The Study

The main objectives of this concise hydrological study are to:

- ❖ Identify the potential for surface water contamination within the study area and the nature of the contaminants likely to be encountered where the coal, pseudocoal and torbanite prospecting will take place,
- ❖ Gather all the relevant information and recommendations in a hydrological report, prepared in a manner that it can be used in conjunction with the Environmental Management Program document for this project.

2. SCOPE OF THE WORK

The scope of the work is centred around the following aspects:

- ❖ Baseline studies
 - ✓ Site visits to correlate the information from desktop studies and the actual conditions of the proposed project area.
 - ✓ The maps from hydrological studies to indicate the catchment areas and any strategic points.
 - ✓ Estimates of the Mean Annual Runoff (MAR), peak flow rates and volumes for these catchments using the WR2021 data.
- ❖ Impact assessments
 - ✓ All surface water impacts will be described, and mitigation measures will be proposed to be incorporated with the Environmental Impact Assessment/Environmental Management Plan (EIA/EMP), for the construction, operation, decommissioning and post closure phases of this project.



3. METHODOLOGY

3.1. Desktop Study

A desktop study was conducted to evaluate the current and previous land uses in the project area to assess the implications for hydrological contaminations. This desktop study included:

- ❖ Assessment of historical aerial photography for the proposed and surrounding areas.
- ❖ Background information on the climate, rainfall, geology, and hydrological structures within the proposed development area. This information will assist in making calculated decisions regarding the development of the proposed prospecting project, considering all the possible associated impacts on the local surface water regimes.
- ❖ The use of QGIS 2.14.9 for Geographic Information Systems (GIS) works in the proposed area.
- ❖ Review and summary of any previous reports or studies regarding the environmental, geological or groundwater conditions, in or within the vicinity of the proposed area.

4. AN OVERVIEW OF RELEVANT LEGISLATIONS AND STANDARDS

4.1. Legal Framework

The DWA's vision for water quality management in South Africa is to:

- ❖ Ensure the continuous improvement of Water Quality Management,
- ❖ Become a recognized world leader in Water Quality Management,
- ❖ Be proactive, dynamic, efficient and effective in its service delivery to the public,
- ❖ Provide necessary policies and systems to ensure integrated sustainable management of water quality,
- ❖ Promote cooperative governance across all spheres of management, and
- ❖ Ensure a fully capacitated and loyal workforce to support its functions.

4.2. National Legislations

The National legislations applicable to surface water management include:

- ❖ The Constitution of the Republic of South Africa, 1996 (No. 108 of 1996)
 - ✓ The Bill of Rights states that everyone has the right to an environment that is not harmful to their health or well-being.
- ❖ National Water Act, 1998 (Act 36 of 1998)
 - ✓ Provides for the protection of the quality of water and water resources in South Africa and provides for the establishment of Water Management.



4.3. National Policy/Guidelines

The National policy and guidelines applicable to surface water management include:

- ❖ South African Water Quality Guidelines, First Edition, 1996
 - ✓ These guidelines set out the minimum water quality requirements for a range of water quality parameters for each water user.
- ❖ Development of a Waste Discharge Charge System, Framework Document, Second Edition, 2000
 - ✓ Provides a framework for the implementation of a system to charge for water use such as the discharge of waste that have impacts on water resources.
- ❖ Best Practice Guidelines for the mining sector, DWAF 2006, 2008
 - ✓ This framework deals with aspects of the DWA's water management hierarchy and with integrated mine water management, pollution prevention and minimisation of impacts, water reuse and reclamation and water treatment.
- ❖ Best Practice Guidelines for the mining sector, DWAF 2006, 2008
 - ✓ Deals with general water management strategies, techniques and tools which could be applied cross-sectorial and deals with storm water management, water and salt balances, water monitoring systems, impact prediction.
- ❖ Best Practice Guidelines for the mining sector, DWAF 2006-2008
 - ✓ Deals with specific mining activities and addresses the prevention and management of impacts from small scale mining, water management for Mine Residue Deposits, pollution control dams, water management for surface mines, and water management for underground mines.



5. BASELINE INFORMATION.

5.1. Climate

The proposed project area is in Empangeni Magisterial District, at an elevation of 121 m above sea level. The climate of this area is defined by the Köppen-Geiger climate classification as a humid subtropical climate (Cfa). Empangeni is dominated by warm and temperate climatic conditions. This area receives a significant amount of rainfall during the year, even on the driest months. The average annual temperature and rainfall is 21.7°C and 944 mm, respectively (Figure 3 and 4). The driest month is June, with precipitation of 42 mm, whereas January has the most precipitation (average of 113 mm). February has an average of 25°C, making it the warmest month of the year. In Empangeni, the lowest average temperature of the year is in July, with an average of 17.7°C (Climate-data.org, DOI: <https://en.climate-data.org/africa/south-africa/kwazulu-natal/empangeni-715226/>). Figure 5 shows a special annual rainfall map for the proposed project area.

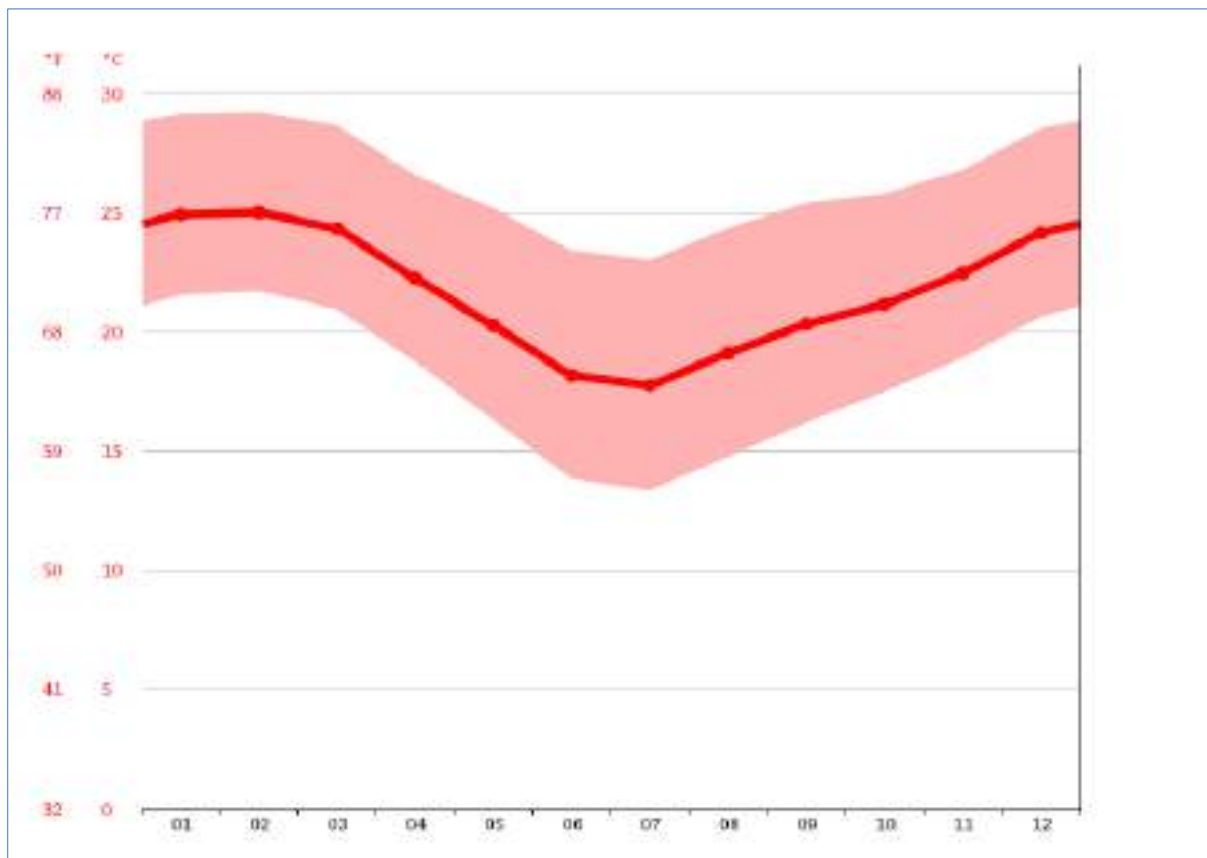


Figure 3: Average annual temperatures for Empangeni (Climate data. Org).



Hydrological study for Raycom Resources for Prospecting Rights Application of Coal, Pseudocoal and Torbanite/ Oil Shale



Figure 4: Average annual rainfall for Empangeni.

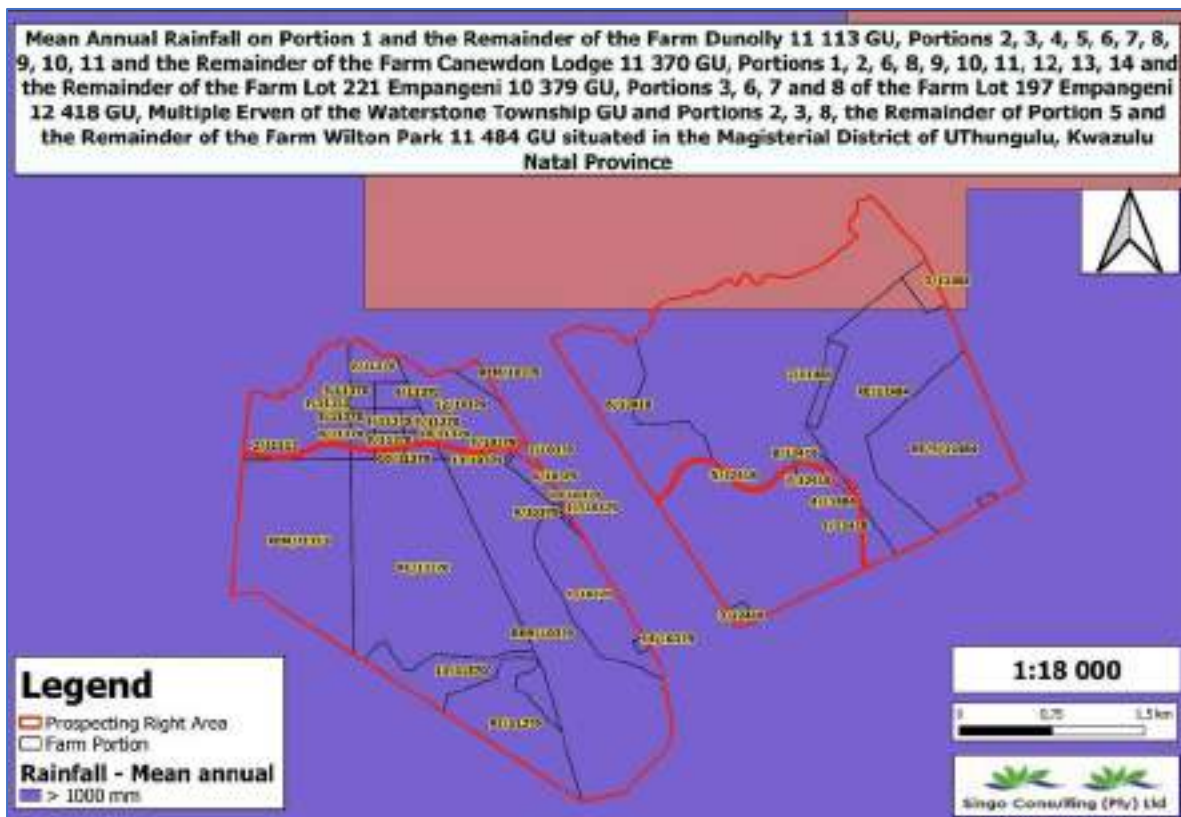


Figure 5: Annual rainfall map for the proposed project area.



5.2. Topography and Drainage

Topography refers to the study of the form and features of land surfaces. The topography of an area is defined by the configuration of surface shapes and features, including its relief and the position of its natural and man-made features. Topography is a field of geoscience and planetary science that entails the practice of graphic delineation in detail, usually depicted on maps (topographic maps) or charts, of natural and man-made features of a place or a region in a way that shows their relative positions and elevations. (Merriam-Webster.com, DOI: <https://www.merriam-webster.com/dictionary/topography>). One portion of the proposed project area is characterized by gentle slopes and the other portion is characterized by concave steep surfaces at the top and flattens out towards the bottom. This can be observed on the topographic map attached below. The flow of water during rainy seasons is from areas of high elevation to those of low elevation, as defined by the contour lines. The project area is defined by a concave topography, ranging from 80-200 mamsl as observed on the contour lines on the topological map (Figure 6).

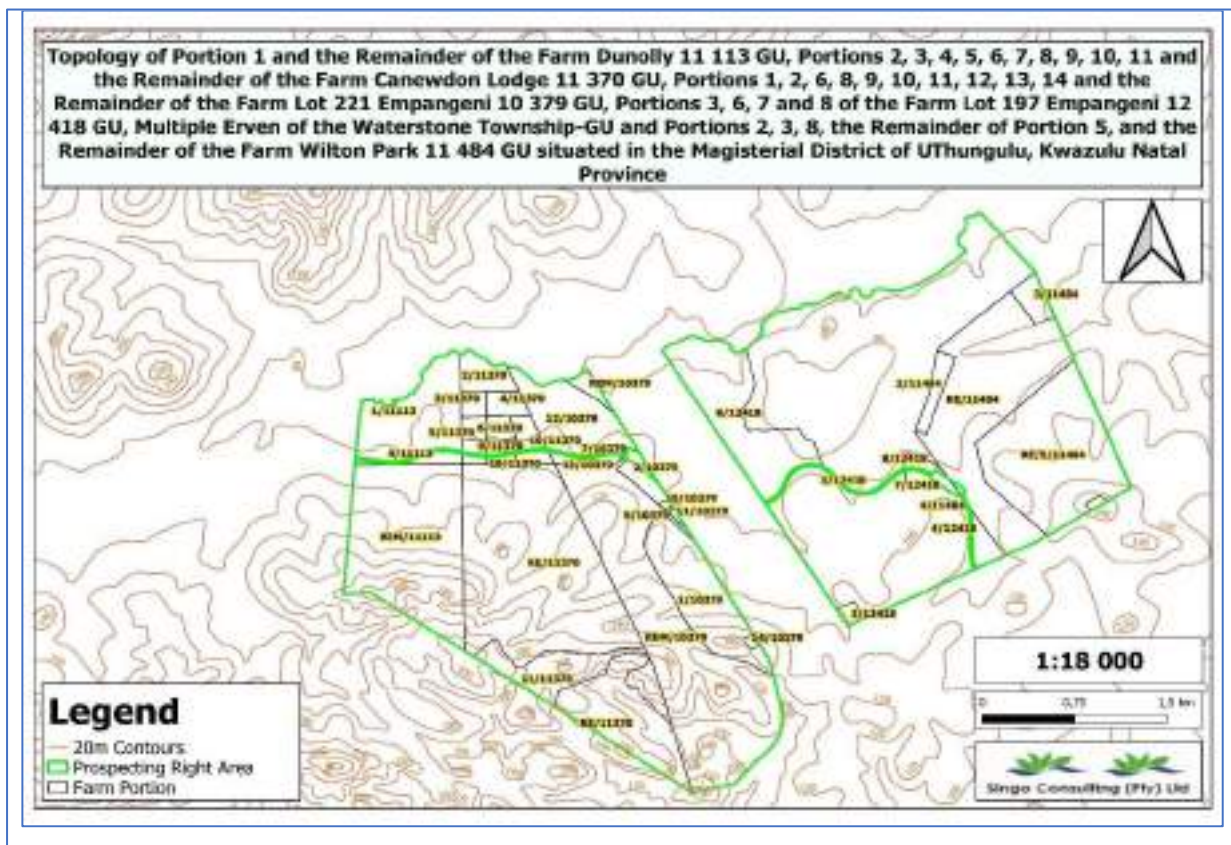


Figure 6: Topological map of the proposed project area, showing the delineated prospecting right area, farm portions and the elevations (contour lines).



Drainage

For the purpose of this study, it is important to investigate and evaluate the hydrological aspects of the project area. Here, hydrology refers to all the surface water appearing within and around the proposed project area, these are all waters that may be impacted by operation of the proposed project. These are important natural water resources that should not be altered by anthropogenic activities. In this project, there should be measures and guidelines in place for protecting and ensuring optimal conservation of the water resources in any case that this prospecting right may pose a risk on them. The prospecting, should right be granted, will take place during dry seasons where the water percentages are exceptionally low in the water bodies. Drilling activities will not be conducted near these water resources, and the exploration geologists will be advised to drill and sample away from the rivers and wetlands on site. Figure 7 depicts all the water bodies that exist and flow within and nearby the project area, namely:

- ❖ Perennial river
- ❖ Seep and flat wetlands
- ❖ Channelled and unchannelled valley-bottom wetlands.

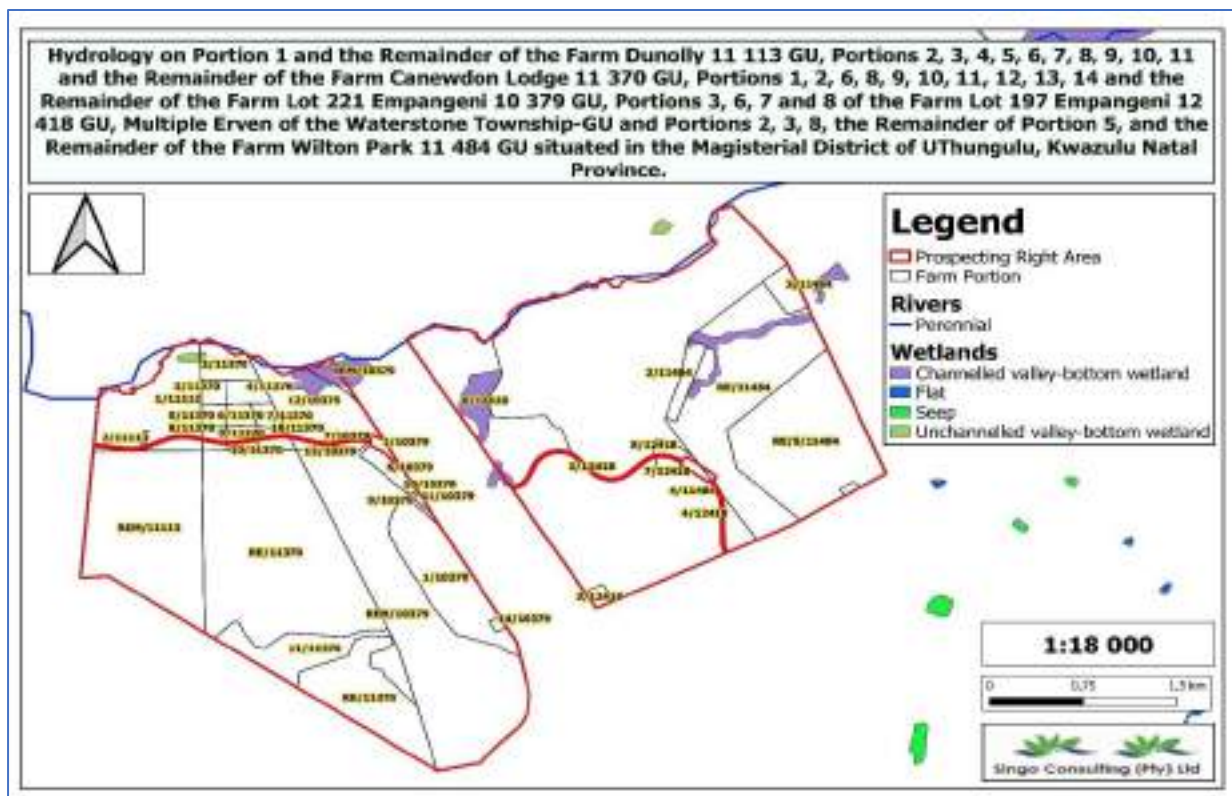


Figure 7: Hydrology map showing the water bodies within and around the proposed project area.



5.3. Catchment Elucidation for The Project Area

Figure 8 shows the regional hydrological setting of the project area. The WR2012 study presents the hydrological parameters for each quaternary catchment including the area, mean annual precipitation (MAP) and mean annual runoff (MAR). The project area is in the Pongola-Mtamvuna Management Area (WMA). Based on the WR2012 data, the project area falls within the quaternary catchment of W12E, W12F and W12H. The total catchment area for W12E is 399 km² with MAP of 1041 millimetres (mm). The total catchment area for W12F and W12H is 320 km² with MAP of 1285 millimetres (mm) and 485 km² with MAP of 1039 millimetres (mm), respectively.

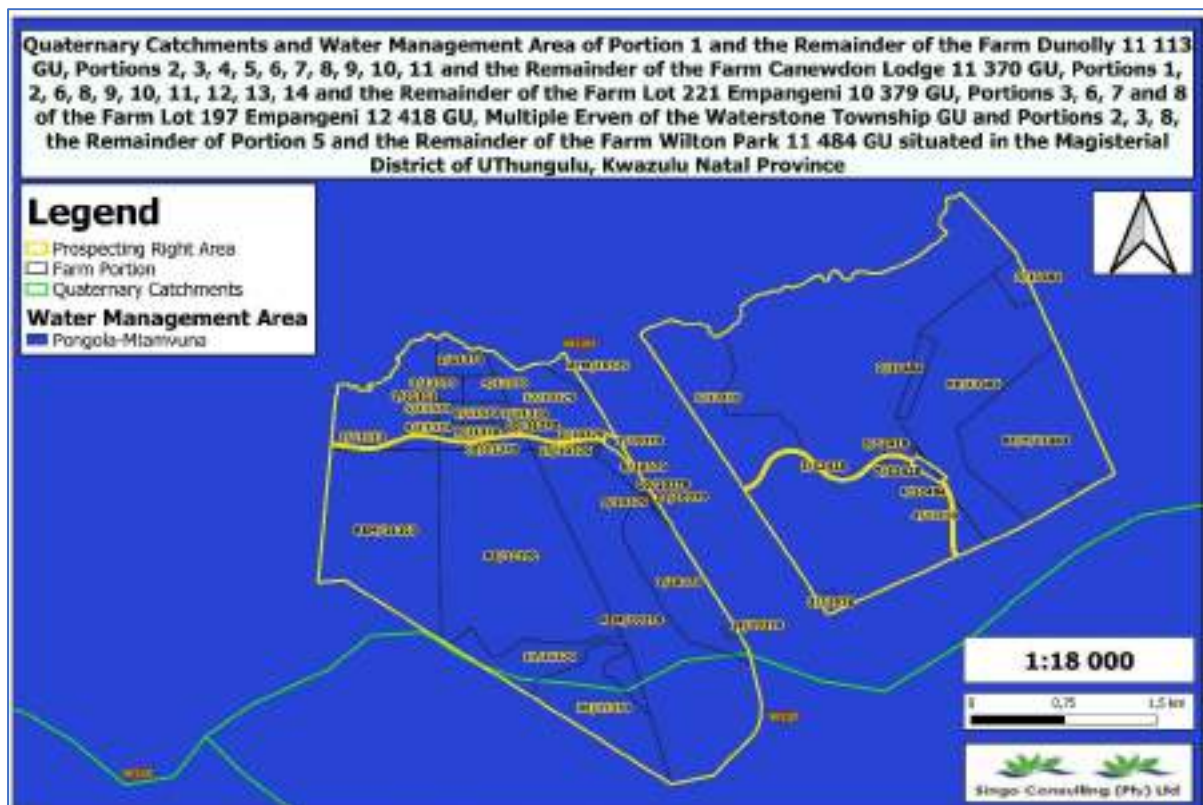


Figure 8: Quaternary catchment map for the proposed project area showing the Water Management Area and quaternary catchments.



5.4. Geology of The Area

This section will give an account of the geological setting within which the project area is located; however, this account will be biased, leaning mostly towards the geological history associated with the coal formation (the main commodity to be prospected for in this project).

Regional and local geology

❖ The Karoo Supergroup

The proposed project area regionally falls under the main Karoo Supergroup. The sedimentary part of the Karoo Supergroup is subdivided into four main lithostratigraphic units, which from the base up are the Dwyka, Eccca, Beaufort and Stormberg groups (Johnson et al., 1996; SACS, 1980;). These are capped by 1.4 km of basaltic lavas of the Drakensberg Group (Johnson et al., 1996; Veevers et al., 1994), the extrusion of which is related to the break-up of Gondwana (Cox, 1992). The basement to the Karoo Supergroup fills in both the Main Karoo Basin (MKB) and the northern basins (Bordy et al., 2004; Hancox, 1998; Rutherford, 2009).

✓ The Dwyka Group

The Dwyka Group rocks in South Africa are amongst the most important glaciogenic deposits from Gondwana. This Group is known for exposures along the Dwyka River east of Laingsburg and forms the basal succession of the Karoo Supergroup. The Dwyka Group strata are mostly contained within bedrock valleys incised into Archean to lower Palaeozoic bedrocks (Visser, 1990; Visser and Kingsley, 1982; Von Brunn, 1996). The lithologies in the areas underlying the coalfields of South Africa consist of a heterolithic arrangement of massive and stratified polymictic diamictites, conglomerates, sandstones and drop stone-bearing varved mudstones. The easily identifiable lithologies form a good marker below the coal bearing Eccca Group. In the distal sector of the MKB, these sedimentary strata accumulated largely as ground moraine associated with continental ice sheets and is generally composed of basal lodgement and supraglacial tills. These deposits are generally massive; however, crude horizontal bedding occur in places towards the top (Tankard et al., 1982). The basement of the Ermelo Coalfield is overlain by rocks attributable to the Dwyka Group, which throughout the Ermelo Coalfield are only poorly developed, except in the far south, where the unit exhibits variable thickness (Greenshields, 1986).



Hydrological study for Raycom Resources for Prospecting Rights Application of Coal,
Pseudocoal and Torbanite/ Oil Shale

The Dwyka group is usually confined to palaeovalleys and consists of diamictites, sandstones and siltstones, attributed to glacial deposits, such as formed as moraines in glacial outwash fans and lakes, and on sandur plains. Wakerman (2003) noted that on the Sheepmoor project area, the Dwyka Group is between 3 and 30 m thick and consists of massive polymictic diamictite capped by interbedded siltstones and mudstones. He further noted that some units contain well-rounded dropstones of exotic provenance. The Pietermaritzburg Formation is not exposed in the Ermelo Coalfield and is rarely intersected in its entirety in any of the boreholes drilled during exploration programmes. According to Greenshields (1986) it is thinly developed or absent in the centre of the Ermelo Coalfield, but may reach a thickness of up to 75 m in the south of the coalfield. Van Alphen (1990) documented a thickness of 12 m for the Pietermaritzburg Formation in his field area, whereas Wakerman (2003) documented thicknesses of between 3 and 48 m for the Sheepmoor project area.

✓ **The Eccca Group**

The Eccca Group is the focus of the proposed area, due to its ability to host different coalfields. The project area falls within the Ermelo Coalfield. In the 1970s, several studies (Cadle, 1974; Hobday, 1973, 1978; Mathew, 1974; Van Vuuren and Cole, 1979) showed that the Eccca Group could be subdivided into several informal units, based on the cyclic nature of the sedimentary fills. In 1980, the South African Committee for Stratigraphy (SACS, 1980) introduced a formal lithostratigraphic nomenclature for the Eccca Group in the northern, distal sector of the MKB, which replaced the previously used informal Lower, Middle and Upper subdivisions with the Pietermaritzburg Shale Formation, the Vryheid Formation and the Volksrust Shale Formation. The proposed project area falls within the Vryheid formation, under the Somkhele coalfield. The general geology of the coal bearing succession is best known from various descriptions available for the Somkhele mine area (Snowden, 2009; Bordy and Prevec, 2008) as well as for the Fuleni project to the south (Tovela, 2011). The Lebombo Basin (which is home to the Somkhele, Swaziland and Kangwane coalfields) is an elongated Phanerozoic depression that stretches in a north-south direction from the Limpopo River in the north, to Empangeni in the south, for a total of some 700 km. Within the Somkhele Coalfield some 600-900 m of Eccca Group and Dwyka Group lithologies underlie the coal bearing Emakwezini Formation.

The Emakwezini Formation, which is the sole representative of the Beaufort Group in the southern half of the Lebombo Basin, is restricted to a narrow, faulted, meridional outcrop and subcrop belt in Swaziland and north-eastern KZN. The unit is also present in the subsurface along the western side of the Lebombo Basin from Empangeni to at least as far north as Komatipoort (Bordy and Prevec, 2008). It is estimated that the Emakwezini Formation attains



Hydrological study for Raycom Resources for Prospecting Rights Application of Coal, Pseudocoal and Torbanite/ Oil Shale

a thickness of ± 490 m near the village of Somkhele (Marshall, 1966). In the north of the Somkele Coalfield, the Emakwezini Formation thins dramatically, attaining a thickness of only 130-150 m in Swaziland (Davies, 1961) and near Komatipoort (Du Toit, 1918). Lithologically the Emakwezini Formation is dominated by fossiliferous, grey, greenish-grey and brown mudstones, with intercalated coal seams, subordinate white or yellow-white, and medium- to coarse-grained feldspathic sandstones. The coal seams are associated mainly with the mudstones and are usually less than 1 m thick and may locally attain thicknesses of up to 15 m. Figure 9 shows the general local geology of the proposed prospecting area.

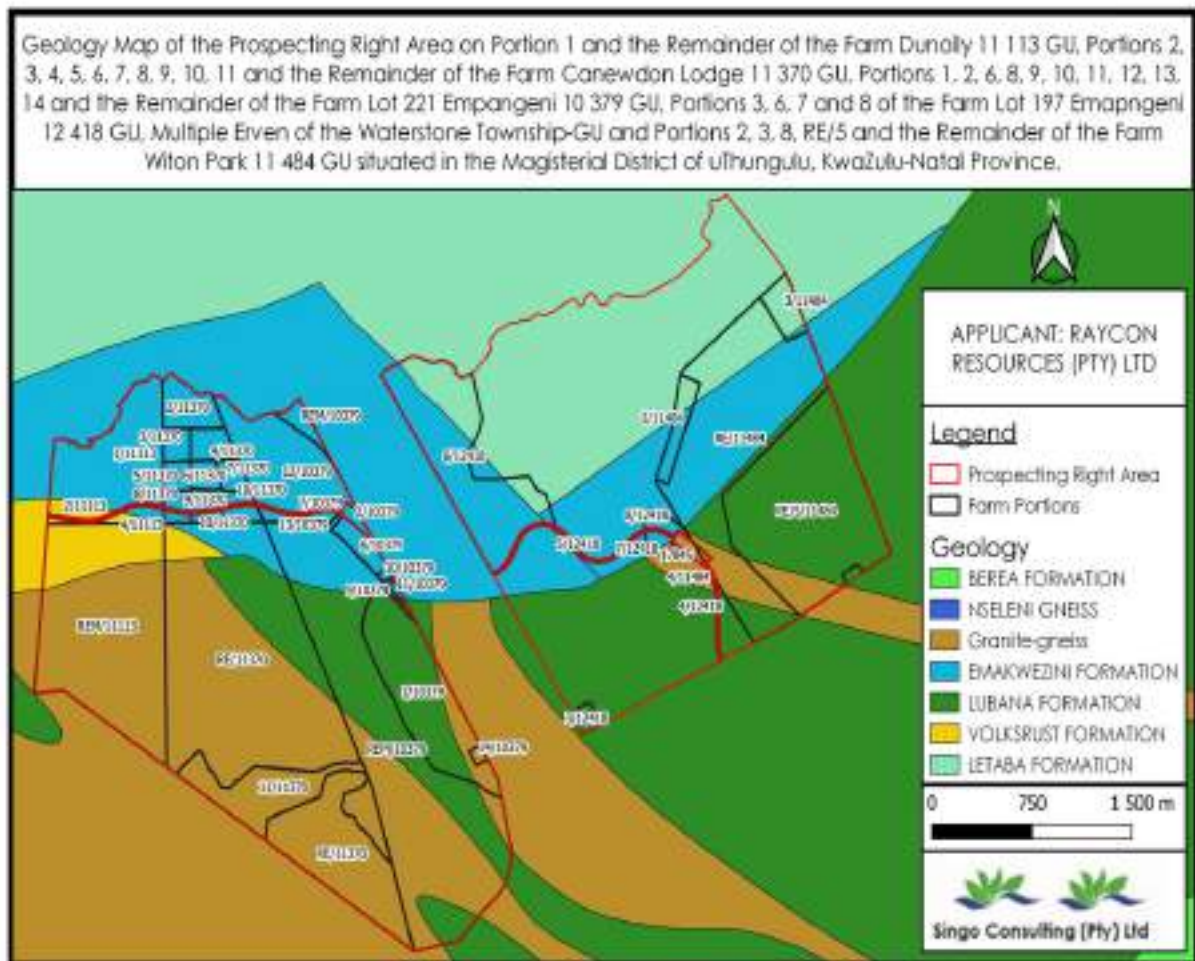


Figure 9: Geological map of the proposed prospecting area.



6. SURFACE WATER IMPACT ASSESSMENT

This Environmental Management Programme (EMPr) addresses the management of potential environmental impacts related to the proposed project with respect to surface water and should be used for the management, mitigation, and monitoring of the environmental impacts. The risk identification and mitigation exercise involve identification of down streams in the proposed prospecting area, as well as a description of the identified risks the environment may incur during the various phases of the project. The ranking system used in the study is presented in Table 1 and Table 2 shows the calculated impact that this prospecting project may have on the water courses in and around the project area.

The risk rating matrix methodology used is based on the following quantitative measures:

- ❖ The probability of the impact occurrence,
- ❖ The frequency of the impact occurrence,
- ❖ The special extent of the impact occurrence,
- ❖ The intensity of the impact occurrence, and
- ❖ The duration of the impact occurrence.

The formular for the Risk Significance Value (RSV) is given by:

$$RSV = (M + D + I + F) \times P \quad \dots Eq 1$$

Where:

M- Is the magnitude of the impact.

D- the duration of the impact

I-the intensity of the impact

F- the frequency of the impact

P- the probability of the impact occurring.



Hydrological study for Raycom Resources for Prospecting Rights Application of Coal,
Pseudocoal and Torbanite/ Oil Shale

Table 1: Risk Assessment Significance Value

The maximum value that can be achieved is 100 Significance Points (SP). Environmental effects were rated as follows:		
Significance	Environmental Significance Points	Colour Code
High (positive)	>60	H
Medium (positive)	30 to 60	M
Low (positive)	<30	L
Neutral	0	N
Low (negative)	>-30	L
Medium (negative)	-30 to -60	M
High (negative)	<-60	H

Status of Impact

+: Positive (A benefit to the receiving environment)

N: Neutral (No cost or benefit to the receiving environment)

-: Negative (A cost to the receiving environment)

Magnitude: =M

Duration: =D

10: Extremely high/do not know

5: Permanent

8: High

4: Long-term (ceases with the operational life)

6: Moderate

3: Medium-term (5-15 years)

4: Low

2: Short-term (0-5 years)

2: Minor

1: Immediate

0: Not applicable/none/negligible

0: Not applicable/none/negligible

Scale: =S

Probability: =P

5: International

5: Definite/do not know

4: National

4: Highly probable

3: Regional

3: Medium probability

2: Local

2: Low probability

1: Site only

1: Improbable

0: Not applicable/none/negligible

0: Not applicable/none/negligible



6.1. Impacts That May Occur

The following impacts are envisioned during the coal prospecting period:

- ❖ Clearing of vegetation leading to increased runoff and less infiltration.
- ❖ Diesel and oil spillages from the drill rig.
- ❖ Increase in volume of contaminated water that needs to be managed within the footprint.
- ❖ Erosion of stream banks as a result of crossings and diversions leading to siltation of the streams.

Mitigation Measures

These are the management measures that will apply during the coal prospecting period:

- ❖ All spillages will need to be cleaned up as soon as practically possible.
- ❖ Spill absorbing material must be provided.
- ❖ Vehicles and machinery will be maintained in good order to minimize leakages.
- ❖ Spillages will be cleaned up immediately and contaminated materials will be disposed at a permitted waste site.
- ❖ All equipment utilizing hydrocarbons will be stored on a hard-standing surface.

Table 2: Surface water impact assessment.

Prospecting right impact assessment table						
Name of Company: Singo Consulting (Pty) Ltd			Sector: Environmental Consulting firm			
Department: Land and water division						
Risk Assessment						
Potential environmental impact	Cause of the impact	Recommended measures/remarks for mitigation	Impact risk before mitigation	Impact risk after mitigation	Responsible person(s)	When mitigation should be implemented?
Fuel & hydrocarbon spills	Drill rig, trucks, and cars	-Clean up immediately after accidental spills & divert run-off from highways that may contain hydrocarbons into pollution control dams to regulate the pollution. -Providing spill absorbing material -All equipment utilizing hydrocarbons will be stored on a hard-standing surface.			The project management team	During the prospecting activities



Hydrological study for Raycom Resources for Prospecting Rights Application of Coal,
Pseudocoal and Torbanite/ Oil Shale

		-Vehicles and machinery will need to be maintained in good order to minimize leakages.				
Clearing of vegetation leading to increased runoff and less infiltration	During pegging, and preparation of the drilling yard	Rehabilitate the site by using a hoe to dig the compacted soil or a tractor.			The project management team	After pegging and drilling
Surface water contamination	-Washing of working equipment machinery. -Using water from the river to operate the drill rig.	-Avoid drilling near surface water. -Do not wash equipment and vehicles at or near water bodies. -Conduct prospecting during dry seasons when the water percentages in wetlands and rivers are exceptionally low. -All the wetlands and rivers will need to be buffered.			The project management team	During prospecting period
Erosion of stream banks as a result of crossings and diversions leading to siltation of the streams.	During prospecting activities like logging and sampling.	Do desktop study and avoid working near the water bodies.			Prospecting team	During the prospecting phase
Soil compaction	During constructing gravel roads to access the site.	Rehabilitate these roads by digging with tractors and ploughing vegetation.			The project management team	After the prospecting phase
Water and soil contamination.	Core logging	The core logs of boreholes with mineral of interest should be cleared from the ground immediately after logging to prevent washing and leaching to the water resources during rainfall.			The project management team	After the prospecting phase
Impact Classification						
Low environmental impact.			Medium environmental impact	High environmental impact	Very High environmental impact	



7. MONITORING PLAN

The objective of the surface water management and monitoring measures is to minimise the impact on surface water dependent systems to be retained from disturbance within and adjacent to controlled sites; to maintain hydrological regimes of surface water so that the environmental values are protected and, to check compliance with license requirements and for reporting purposes. Water dependent systems are parts of the environment in which the composition of species and natural ecological processes are determined by the permanent or temporary presence of flowing or standing surface water or groundwater. The in-stream areas of rivers, riparian vegetation, springs, wetlands, floodplains, groundwater-dependent terrestrial vegetation are all examples of water dependent systems (Department of Water, January 2013). The objectives of these systems will be achieved if there are no impacts on the in-stream and downstream fitness for use criteria.

8. CONCLUSIONS AND RECOMMENDATIONS

- ❖ It can be concluded that the prospecting activity will cause minimal impact on the water resources as the following mitigation measures will strictly be implemented at the commencement of the project:
 - ✓ Rivers and wetlands will be buffered as no go area, and a 500m buffer will apply.
 - ✓ Extreme caution will be taken during prospecting, owing to the river and numerous wetlands existing within and nearby the project area. No washing of any mechanical equipment or vehicles will be allowed near the water resources.
 - ✓ Drilling activities will not be conducted within 500m from watercourses, and the exploration geologists will be advised to drill and sample at more than 500m from rivers and wetlands on site.
 - ✓ The exploration boreholes must be cased during drilling and properly rehabilitated by cap sealing the borehole after drilling.
 - ✓ Absorbent Spill kits will be made available near the drill rigs during drilling activities.



Hydrological study for Raycom Resources for Prospecting Rights Application of Coal,
Pseudocoal and Torbanite/ Oil Shale

- ✓ The borehole core logs with the mineral of interest should be cleared from the ground immediately after logging to prevent washing and leaching into the water resources during rainfall.

9 REFERENCES

10 APPENDICES

Appendix A: Site pictures



**SCREENING REPORT FOR AN ENVIRONMENTAL AUTHORIZATION OR
FOR A PART TWO AMENDMENT OF AN ENVIRONMENTAL AUTHORISATION
AS REQUIRED BY THE 2014 EIA REGULATIONS – PROPOSED DEVELOPMENT
FOOTPRINT ENVIRONMENTAL SENSITIVITY**

EIA Reference number: KZN 30/5/1/1/2/11025PR

Project name: Dunolly 11113 GU, Canewdon Lodge 11370 GU, Lot 221 Empangeni 10379 GU, Lot 197 Empangeni 12418 GU, Wilton Park 11484 GU

Project title: Dunolly 11113 GU, Canewdon Lodge 11370 GU, Lot 221 Empangeni 10379 GU, Lot 197 Empangeni 12418 GU, Wilton Park 11484 GU

Date screening report generated: 13/01/2021 14:08:39

Applicant: Raycom Resources (Pty) Ltd

Compiler: Singo Consulting (Pty) Ltd

Compiler signature: 
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Application Category: Mining|Prospecting rights

Table of Contents

- Proposed Project Location 3
 - Orientation map 1: General location 3
- Map of proposed site and relevant area(s) 4
 - Cadastral details of the proposed site 4
 - Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area 6
 - Environmental Management Frameworks relevant to the application 6
- Environmental screening results and assessment outcomes 6
 - Relevant development incentives, restrictions, exclusions or prohibitions 6
- Map indicating proposed development footprint within applicable development incentive, restriction, exclusion or prohibition zones..... 7
 - Proposed Development Area Environmental Sensitivity..... 7
 - Specialist assessments identified..... 8
- Results of the environmental sensitivity of the proposed area 10
 - MAP OF RELATIVE AGRICULTURE THEME SENSITIVITY 10
 - MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY..... 11
 - MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY 12
 - MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY 13
 - MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY 14
 - MAP OF RELATIVE DEFENCE THEME SENSITIVITY..... 15
 - MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY 16
 - MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY 17
 - MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY 18

Proposed Project Location

Orientation map 1: General location

**General Orientation: Dunolly 11113 GU, Canewdon Lodge 11370 GU, Lot 221
Empangeni 10379 GU, Lot 197 Empangeni 12418 GU, Wilton Park 11484 GU**



27	WILTON PARK	11484	5	28°43'27.65S	31°54'10.18E	Farm Portion
28	LOT 197 EMPANGENI	12418	2	28°43'31.15S	31°53'18.15E	Farm Portion
29	LOT 197 EMPANGENI	12418	0	28°43'53.13S	31°53'49.75E	Farm Portion
30	LOT 197 EMPANGENI	12418	6	28°43'13.68S	31°52'33.1E	Farm Portion
31	WILTON PARK	11484	3	28°42'37.15S	31°54'5.16E	Farm Portion
32	WILTON PARK	11484	4	28°43'39.7S	31°53'44.14E	Farm Portion
33	LOT 197 EMPANGENI	12418	4	28°43'50.46S	31°53'46.22E	Farm Portion
34	WILTON PARK	11484	0	28°43'11.39S	31°53'45.69E	Farm Portion
35	WILTON PARK	11484	5	28°43'27.91S	31°54'10.2E	Farm Portion
36	LOT 197 EMPANGENI	12418	0	28°43'50.96S	31°53'16.4E	Farm Portion
37	RESERVE 5	15824	4	28°41'46.77S	31°52'35.77E	Farm Portion
38	WILTON PARK	11484	1	28°43'36.39S	31°53'42.39E	Farm Portion
39	LOT 197 EMPANGENI	12418	1	28°43'23.56S	31°53'20.52E	Farm Portion
40	LOT 197 EMPANGENI	12418	7	28°43'33.21S	31°53'29.85E	Farm Portion
41	RESERVE 5	15824	5	28°42'4.91S	31°53'9.69E	Farm Portion
42	LOT 197 EMPANGENI	17845	0	28°43'34.55S	31°53'38.42E	Farm Portion
43		18343	0	28°43'53.06S	31°53'49.73E	Farm Portion
44		18343	0	28°43'50.86S	31°53'16.41E	Farm Portion
45		18343	0	28°42'54.32S	31°53'15.05E	Farm Portion
46	LOT 197 EMPANGENI	12418	0	28°43'7.4S	31°53'4.57E	Farm Portion
47	LOT 197 EMPANGENI	12418	3	28°44'15.55S	31°53'10.02E	Farm Portion
48	RESERVE 5	15824	0	28°41'37.11S	31°54'41.88E	Farm Portion
49	RESERVE 5	15824	22	28°41'52.9S	31°53'16.14E	Farm Portion
50	WILTON PARK	11484	6	28°42'38.56S	31°53'35.66E	Farm Portion
51	WILTON PARK	11484	8	28°43'40.66S	31°54'23.73E	Farm Portion
52	WILTON PARK	11484	0	28°43'11.7S	31°53'45.72E	Farm Portion
53	LOT 197 EMPANGENI	12418	8	28°43'28.72S	31°53'31.71E	Farm Portion
54	LOT 197 EMPANGENI	12418	5	28°43'37.33S	31°53'10.37E	Farm Portion
55	RESERVE 5	15824	48	28°41'29.34S	31°51'2.74E	Farm Portion
56	RESERVE 5	15824	0	28°31'5.17S	32°0'3.79E	Farm Portion

Development footprint¹ vertices:

Footprint	Latitude	Longitude
1	28°42'53.36S	31°52'13.58E
1	28°42'10.37S	31°53'48.65E
1	28°42'28.11S	31°54'4.94E
1	28°43'36.02S	31°54'34.19E
1	28°44'19.12S	31°53'9.1E
1	28°42'53.36S	31°52'13.58E

¹ “development footprint”, means the area within the site on which the development will take place and includes all ancillary developments for example roads, power lines, boundary walls, paving etc. which require vegetation clearance or which will be disturbed and for which the application has been submitted.

Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area

No nearby wind or solar developments found.

Environmental Management Frameworks relevant to the application

No intersections with EMF areas found.

Environmental screening results and assessment outcomes

The following sections contain a summary of any development incentives, restrictions, exclusions or prohibitions that apply to the proposed development footprint as well as the most environmental sensitive features on the footprint based on the footprint sensitivity screening results for the application classification that was selected. The application classification selected for this report is:

Mining | Prospecting rights.

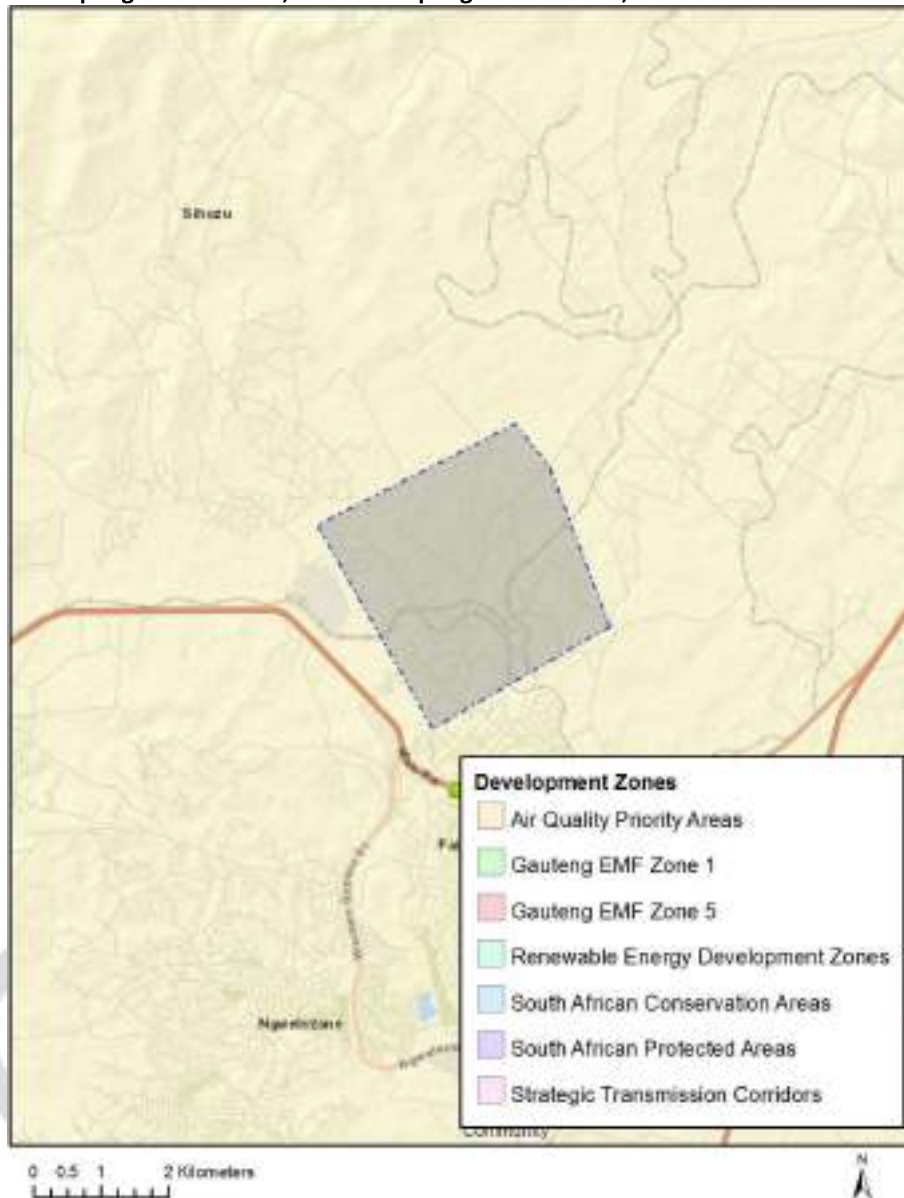
Relevant development incentives, restrictions, exclusions or prohibitions

The following development incentives, restrictions, exclusions or prohibitions and their implications that apply to this footprint are indicated below.

No intersection with any development zones found.

Map indicating proposed development footprint within applicable development incentive, restriction, exclusion or prohibition zones

Project Location: Dunolly 11113 GU, Canewdon Lodge 11370 GU, Lot 221 Empangeni 10379 GU, Lot 197 Empangeni 12418 GU, Wilton Park 11484 GU



Proposed Development Area Environmental Sensitivity

The following summary of the development footprint environmental sensitivities is identified. Only the highest environmental sensitivity is indicated. The footprint environmental sensitivities for the proposed development footprint as identified, are indicative only and must be verified on site by a suitably qualified person before the specialist assessments identified below can be confirmed.

Theme	Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
-------	-----------------------	------------------	--------------------	-----------------

Agriculture Theme	X			
Animal Species Theme		X		
Aquatic Biodiversity Theme	X			
Archaeological and Cultural Heritage Theme		X		
Civil Aviation Theme		X		
Defence Theme				X
Paleontology Theme	X			
Plant Species Theme			X	
Terrestrial Biodiversity Theme				X

Specialist assessments identified

Based on the selected classification, and the environmental sensitivities of the proposed development footprint, the following list of specialist assessments have been identified for inclusion in the assessment report. It is the responsibility of the EAP to confirm this list and to motivate in the assessment report, the reason for not including any of the identified specialist study including the provision of photographic evidence of the footprint situation.

No	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Agriculture Assessment Protocols.pdf
2	Archaeological and Cultural Heritage Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
3	Palaeontology Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
4	Terrestrial Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted Terrestrial Biodiversity Assessment Protocols.pdf
5	Aquatic Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted Aquatic Biodiversity Assessment Protocols.pdf

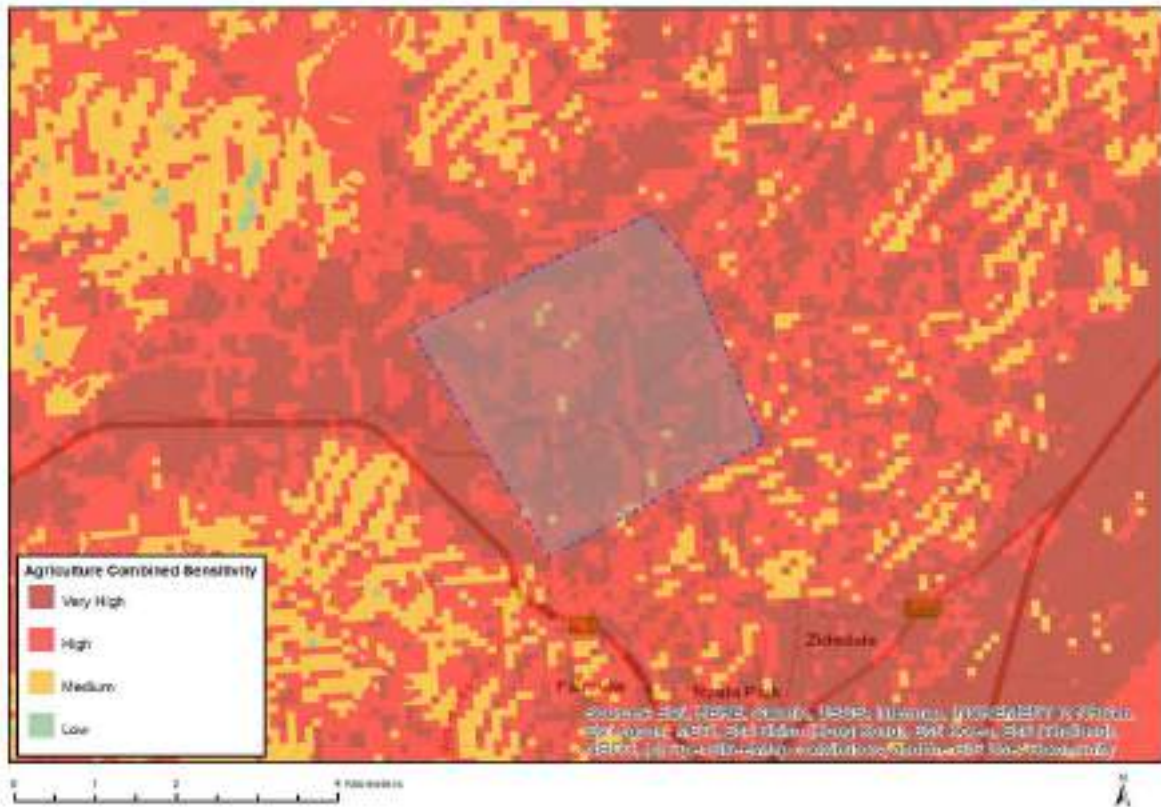
6	Noise Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted Noise Impacts Assessment Protocol.pdf
7	Radioactivity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
8	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted Plant Species Assessment Protocols.pdf
9	Animal Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted Animal Species Assessment Protocols.pdf

OFFICIAL

Results of the environmental sensitivity of the proposed area.

The following section represents the results of the screening for environmental sensitivity of the proposed footprint for relevant environmental themes associated with the project classification. It is the duty of the EAP to ensure that the environmental themes provided by the screening tool are comprehensive and complete for the project. Refer to the disclaimer.

MAP OF RELATIVE AGRICULTURE THEME SENSITIVITY

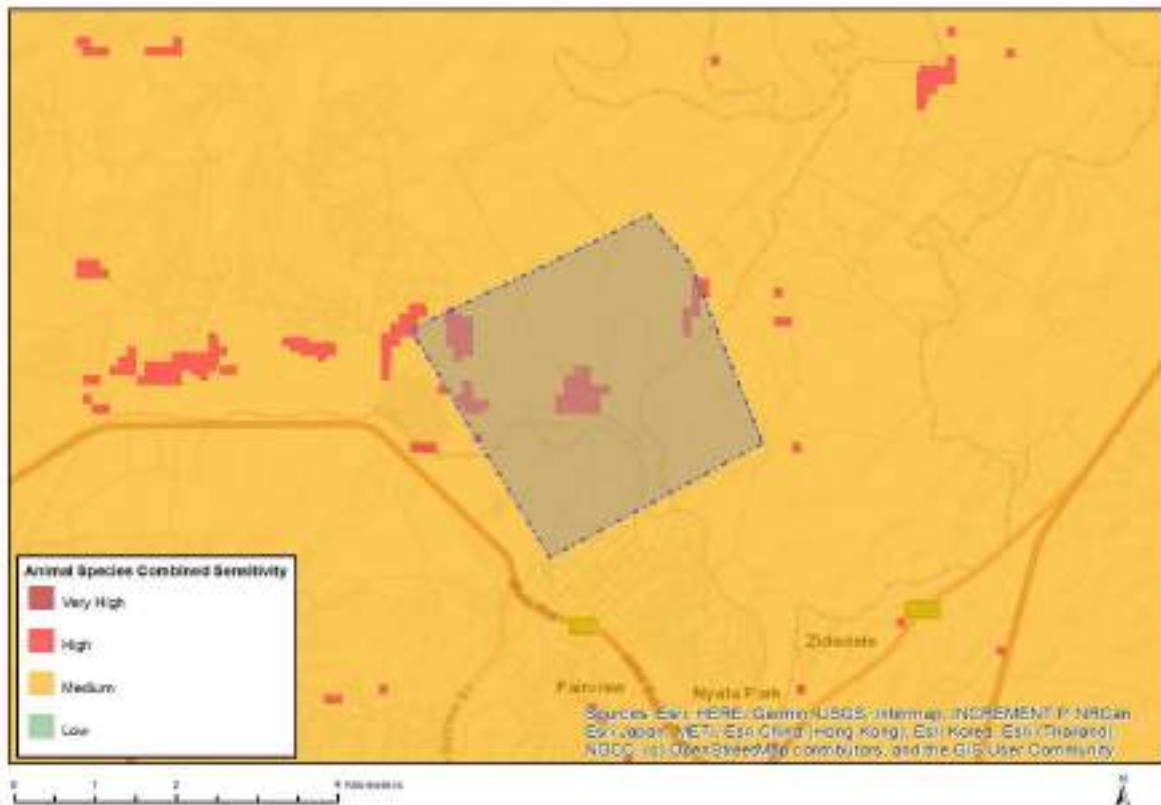


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
High	Land capability;09. Moderate-High/10. Moderate-High
High	Old Fields;Land capability;09. Moderate-High/10. Moderate-High
High	Old Fields;Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate
High	Subsistence Farming 1;Land capability;09. Moderate-High/10. Moderate-High
Medium	Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate
Very High	Land capability;11. High/12. High-Very high/13. High-Very high/14. Very high/15. Very high
Very High	Old Fields;Land capability;11. High/12. High-Very high/13. High-Very high/14. Very high/15. Very high
Very High	Subsistence Farming 1;Land capability;11. High/12. High-Very high/13. High-Very high/14. Very high/15. Very high

MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



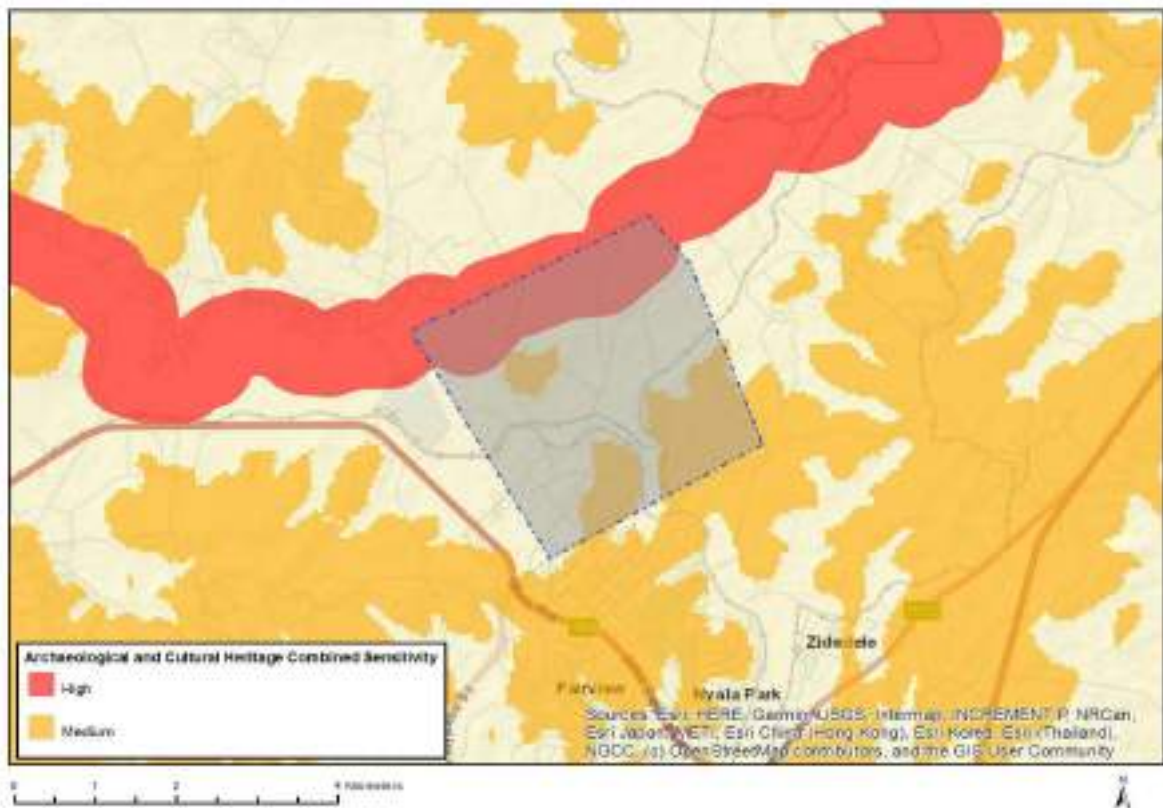
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at aiadatarequests@sanbi.org.za listing all sensitive species with their unique identifiers for which information is required. The name has been withheld as the species may be prone to illegal harvesting and must be protected. SANBI will release the actual species name after the details of the EAP or specialist have been documented.

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Aves-Nettapus auritus
High	Aves-Circus ranivorus
High	Sensitive species 9
Medium	Invertebrate-Pomatonota dregii
Medium	Insecta-Iolous diametra natalica
Medium	Invertebrate-Forest invertebrate
Medium	Insecta-Deloneura millari millari
Medium	Reptilia-Kinixys natalensis
Medium	Sensitive species 5
Medium	Mammalia-Dendrohyrax arboreus
Medium	Invertebrate-Physophorina livingstonii
Medium	Invertebrate-Arytropteris basalis
Medium	Mammalia-Lycaon pictus
Medium	Amphibia-Hyperolius pickersgilli
Medium	Aves-Halcyon senegaloides

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

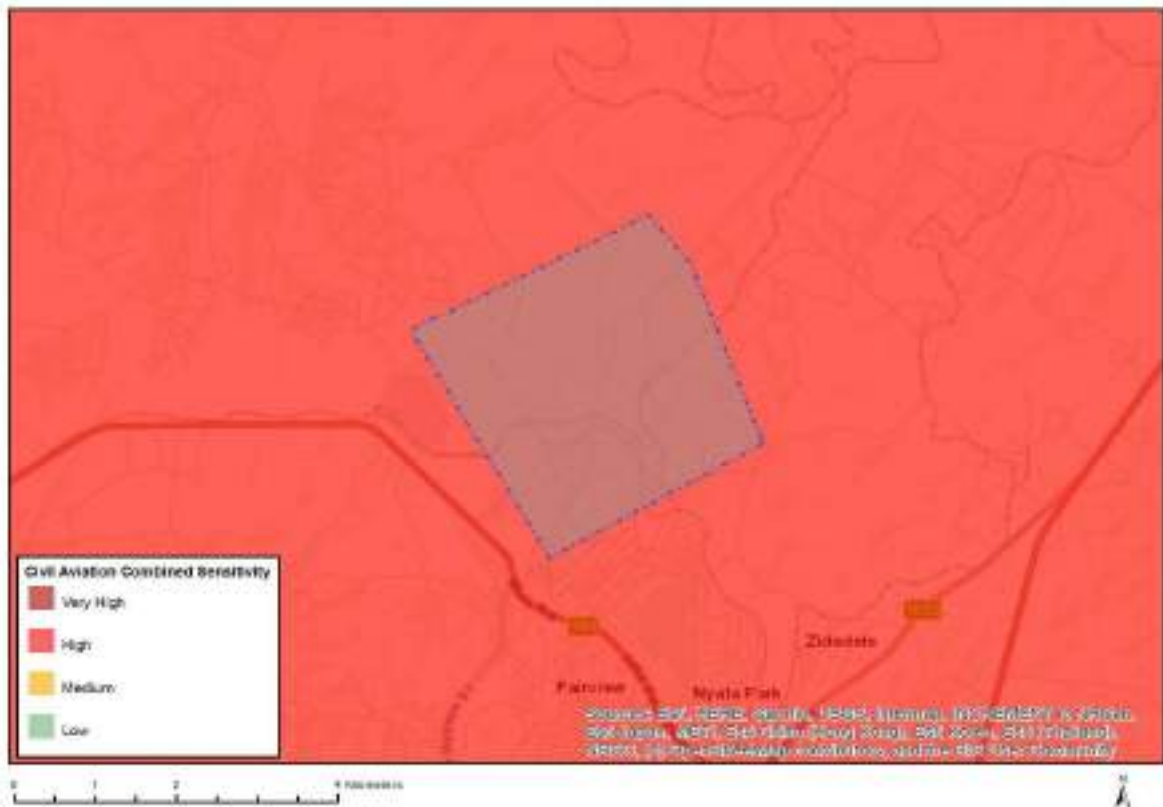


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Within 500 m of an important river
Medium	Mountain or ridge

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Within 8 km of other civil aviation aerodrome

