October 2020 1784950-332302-16

APPENDIX Y

National Environmental Screening Tool – Grootegeluk Turfvlakte Expansion Project Assessment

SCREENING REPORT FOR AN ENVIRONMENTAL AUTHORIZATION OR FOR A PART TWO AMENDMENT OF AN ENVIRONMENTAL AUTHORISATION AS REQUIRED BY THE 2014 EIA REGULATIONS – PROPOSED SITE ENVIRONMENTAL SENSITIVITY

EIA Reference number:

Project name: Exxaro Grootegeluk Coal Mine: Turfvlakte Open Pit Project

Project title: Application for EA and WUL for the proposed Turfvlakte Open Pit Mine Project at

Grootegeluk Coal Mine near Lephalale, Limpopo Province

Date screening report generated: 16/01/2020 15:36:03

Applicant: Exxaro Resources Limited

Compiler: Golder

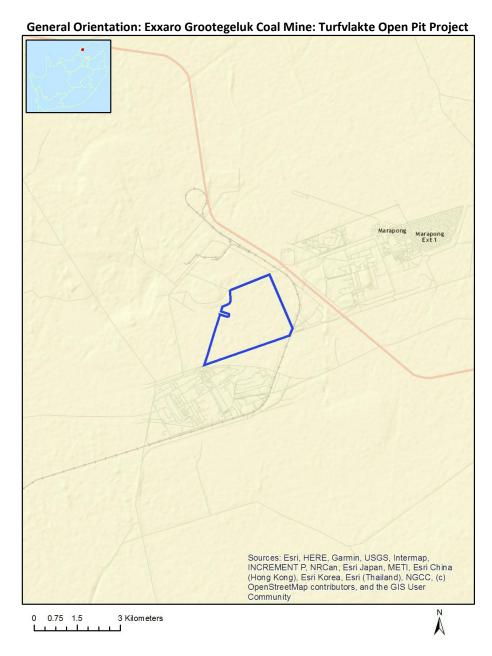
Compiler signature: MSL_{-}

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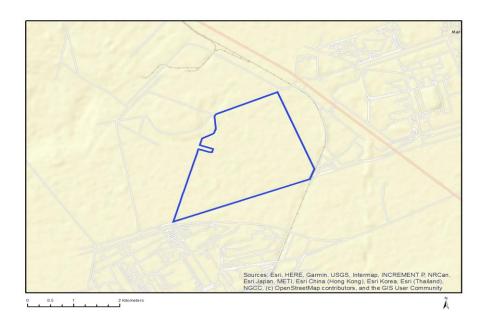
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Proposed Project Location

Orientation map 1: General location



Map of proposed site and relevant area(s)



Cadastral details of the proposed site

Property details:

No	Farm Name	Farm/ Erf No	Portion	Latitude	Longitude	Property Type
1		463	0	23°41'0.13S	27°33'50.67E	Farm
2		463	0	23°41'0.13S	27°33'50.67E	Farm Portion
3		463	0	23°41'0.13S	27°33'50.67E	Farm Portion

Development footprint¹ vertices: No development footprint(s) specified.

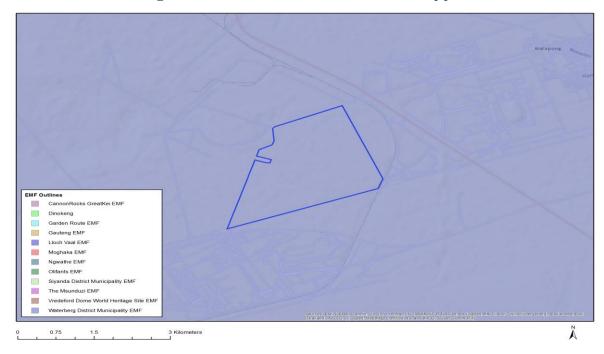
Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area

No	EIA Reference	Classification	Status of	Distance from proposed
	No		application	area (km)
1	12/12/20/2306	Solar PV	Approved	0
2	12/12/20/2152	Solar PV	Approved	15.4
3	14/12/16/3/3/2/700	Solar PV	Approved	15.6
4	14/12/16/3/3/2/444	Solar PV	Approved	25.3

Disclaimer applies 16/01/2020

¹ "development footprint", means the area within the site on which the development will take place and incudes 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.

Environmental Management Frameworks relevant to the application



Environmen tal Manageme nt	LINK
Framework	
Waterberg	https://screening.environment.gov.za/ScreeningDownloads/EMF/WDEMF_Final
District	EMF Report.pdf
Municipality	
EMF	

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 site as well as the most environmental sensitive features on the site based on the site sensitivity screening results for the application classification that was selected. The application classification selected for this report is:

Mining | Mining Right | Mining - Mining Right.

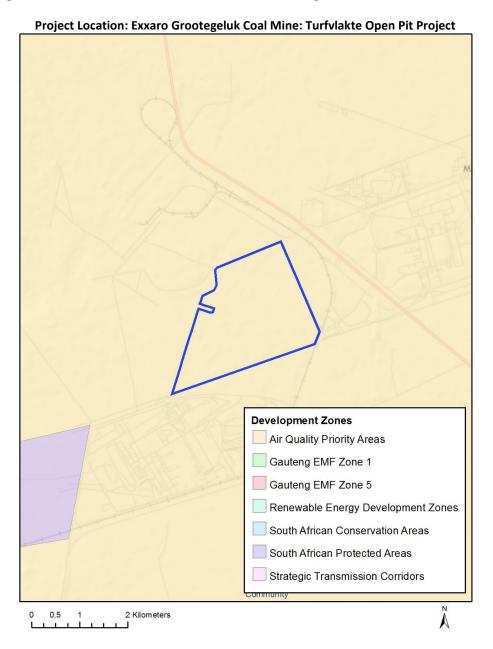
Relevant development incentives, restrictions, exclusions or prohibitions

The following development incentives, restrictions, exclusions or prohibitions and their implications that apply to this site are indicated below.

Incentiv	Implication
e,	
e, restricti	
on or	
prohibiti	
on	

Air	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/gg3
Quality-	9489 nn1207a.pdf
Waterberg	<u>5 105_1111226741641</u>
-Bojanala	
Priority	
Area	

Map indicating proposed development footprint within applicable development incentive, restriction, exclusion or prohibition zones



Proposed Development Area Environmental Sensitivity

The following summary of the development site 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	High	Medium	Low
	sensitivity	sensitivity	sensitivity	sensitivity
Agriculture Theme		Х		
Animal Species Theme			Х	
Aquatic Biodiversity Theme				Х
Archaeological and Cultural			Х	
Heritage Theme				
Civil Aviation Theme			Х	
Paleontology Theme		Х		
Plant Species Theme			Χ	
Defence Theme				Х
Terrestrial Biodiversity Theme				Х

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 site situation.

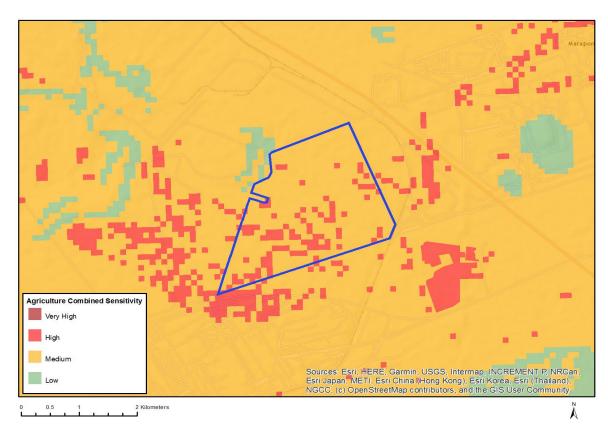
N	Specia	Assessment Protocol
0	list	
	assess	
	ment	
1	Agricult ural Impact Assessm ent	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/ /DraftGazetted_Agriculture_Assessment_Protocols.pdf
2	Landsca pe/Visu al Impact Assessm ent	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/ DraftGazetted_General_Requirement_Assessment_Protocols.pdf
3	Archaeo logical and Cultural Heritage Impact Assessm ent	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /DraftGazetted General Requirement Assessment Protocols.pdf
4	Palaeon tology Impact Assessm ent	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /DraftGazetted General Requirement Assessment Protocols.pdf
5	Terrestri al Biodiver sity	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /DraftGazetted Terrestrial Biodiversity Assessment Protocols.pdf

	Impact	
	Assessm	
	ent	
6	Aquatic	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
	Biodiver	<u>/DraftGazetted_Aquatic_Biodiversity_Assessment.pdf</u>
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7	Hydrolo	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
	gy Assessm	<u>/DraftGazetted_General_Requirement_Assessment_Protocols.pdf</u>
8	ent Noise	https://saraaning.on.ing.on.ing.on.ing.on.ing.on.ing.
0	Impact	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
	Assessm	<u>/DraftGazetted_Noise_Impacts_Assessment_Protocols.pdf</u>
	ent	
9	Radioac	https://sarsoning.on.ing.on.ing.on.ing.on.ing.
9		https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
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	ent	
1	Geotech	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
1	nical	
1	Assessm	<u>/DraftGazetted_General_Requirement_Assessment_Protocols.pdf</u>
	ent	
1	Climate	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
2	Impact	
_	Assessm	<u>/DraftGazetted_General_Requirement_Assessment_Protocols.pdf</u>
	ent	
1	Health	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
3	Impact	
	Assessm	/DraftGazetted General Requirement Assessment Protocols.pdf
	ent	
1	Socio-	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
4	Economi	/DraftGazetted General Requirement Assessment Protocols.pdf
	С	/Dianoazetted_General_Requirement_Assessment_Protocois.pui
	Assessm	
	ent	
1	Ambient	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
5	Air	/DraftGazetted_General_Requirement_Assessment_Protocols.pdf
	Quality	/Drandazettea_deneral_nequirement_Assessment_frotocois.pur
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1	Seismici	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
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	ent	
1	Plant	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
7	Species	/DraftGazetted General Requirement Assessment Protocols.pdf
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1	Animal	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols
8	Species	/DraftGazetted General Requirement Assessment Protocols.pdf
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Results of the environmental sensitivity of the proposed area.

The following section represents the results of the screening for environmental sensitivity of the proposed site 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.

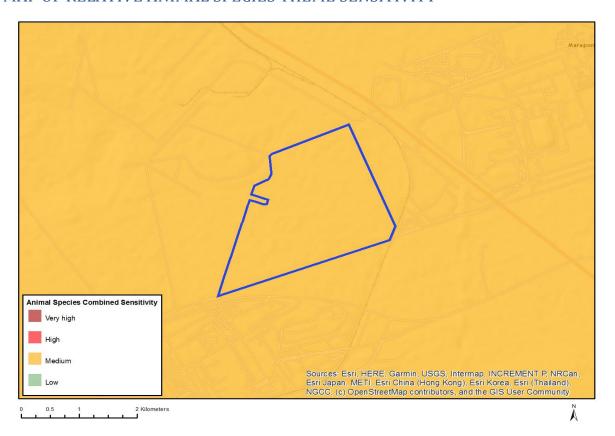
MAP OF RELATIVE AGRICULTURE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	Х		

Sensitivity	Feature(s)
High	Land capability;09. Moderate-High/10. Moderate-High
Low	Land capability;01. Very low/02. Very low/03. Low-Very low/04. Low-Very low/05. Low
Medium	Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate

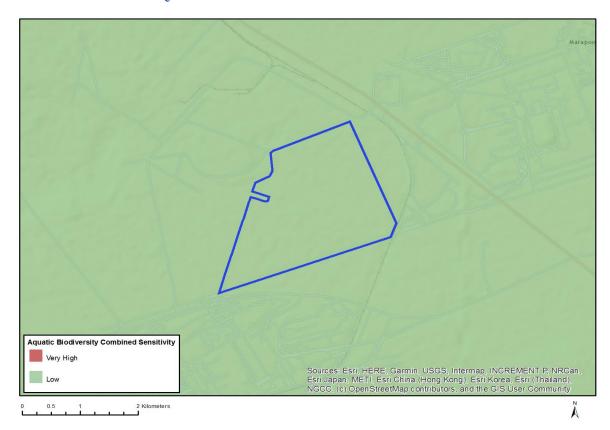
MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity	Feature(s)	
Medium	Mammalia-Lycaon pictus	
Medium	Sensitive species 17	

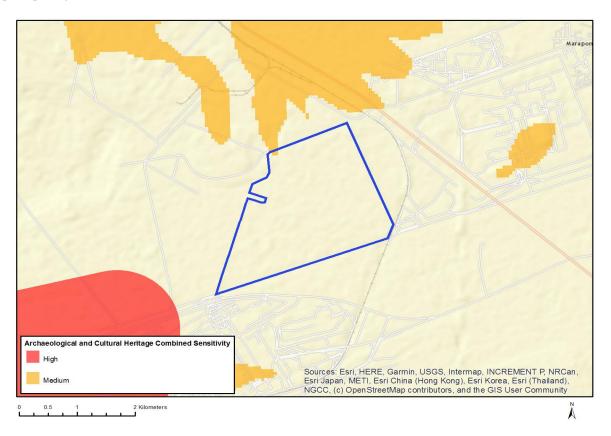
MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			Χ

Sensitivity	Feature(s)
Low	Low Sensitivity Areas

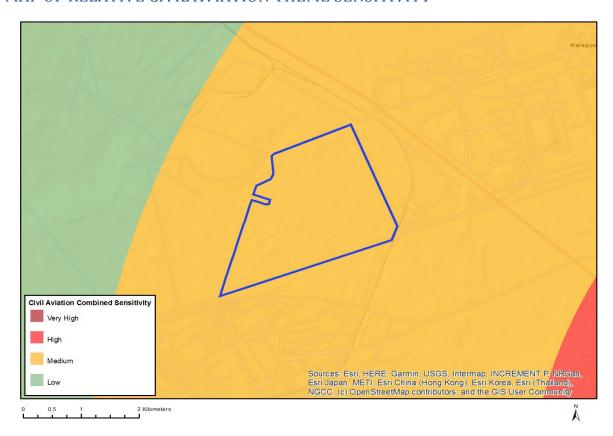
MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity	Feature(s)
Medium	Mountain or ridge

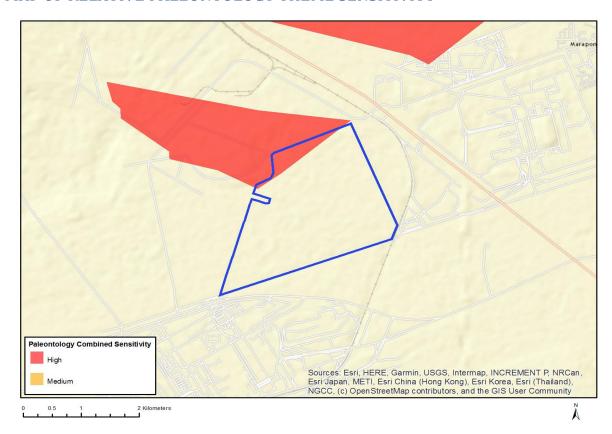
MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity	Feature(s)
Medium	Between 8 and 15 km of other civil aviation aerodrome

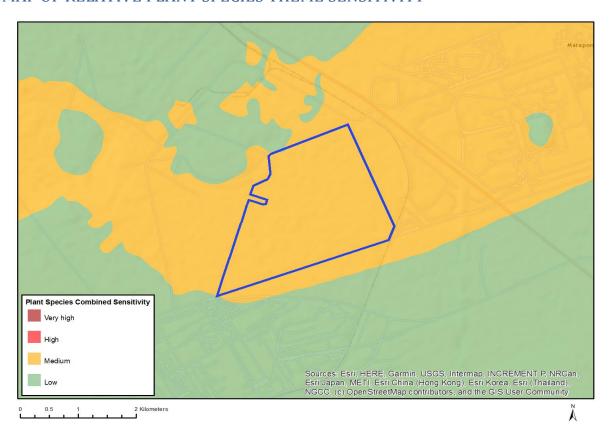
MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity	Feature(s)
High	Rock units with a high paleontological sensitivity

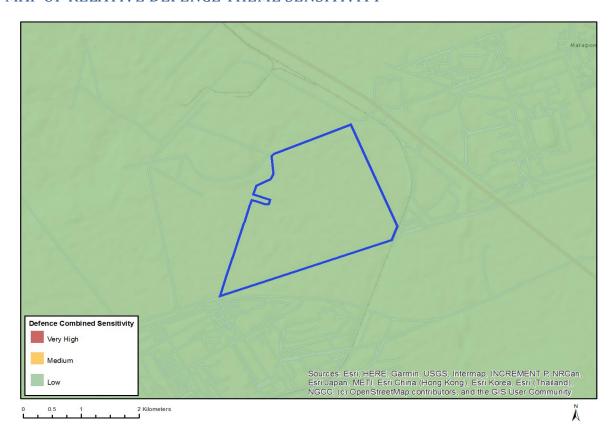
MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		Χ	

Sensitivity	Feature(s)	
Low	Low sensitivity	
Medium	Corchorus psammophilus	

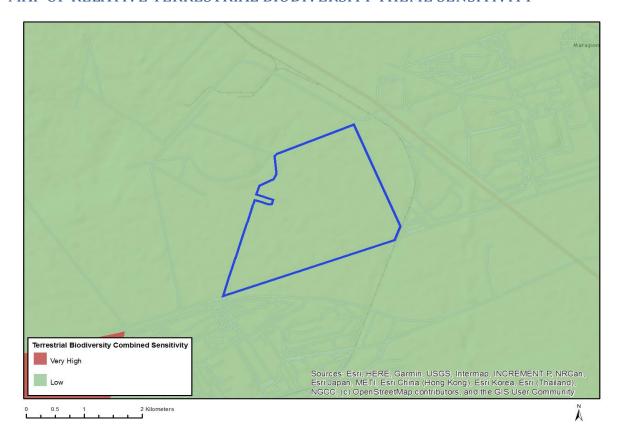
MAP OF RELATIVE DEFENCE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			Х

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			Х

Sensitivity	Feature(s)
Low	None