SCREENING REPORT FOR AN ENVIRONMENTAL AUTHORIZATION AS REQUIRED BY THE 2014 EIA REGULATIONS – PROPOSED SITE ENVIRONMENTAL SENSITIVITY

EIA Reference number: TBD

Project name: Harmony Development Area

Project title: Harmony Site

Date screening report generated: 06/06/2022 09:50:33

Applicant: Harmony Gold Mining

Compiler: Savannah Environmental

Compiler signature:

Application Category: Utilities Infrastructure | Electricity | Generation | Renewable | Solar | PV

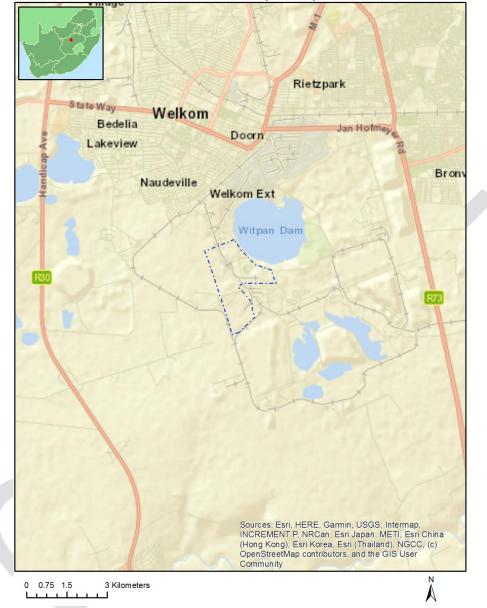
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Proposed Project Location

Orientation map 1: General location



General Orientation: Harmony Development Area

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	WELKOM	80	0	28°0'43.4S	26°44'51.44E	Farm
2	VLAKPLAATS	125	0	28°0'36.6S	26°42'59.69E	Farm
3	MARMAGELI	20	0	28°1'50.89S	26°45'11.21E	Farm
4	STUIRMANSPAN	92	0	28°2'34.67S	26°46'12.39E	Farm
5	MARMAGELI	20	3	28°1'18.86S	26°45'11.83E	Farm Portion
6	STUIRMANSPAN	92	1	28°2'57.2S	26°45'45.05E	Farm Portion
7	VLAKPLAATS	125	2	28°0'58.55S	26°44'6.77E	Farm Portion
8	WELKOM	80	0	28°0'52.91S	26°44'47.96E	Farm Portion
9	MARMAGELI	20	0	28°1'49.66S	26°45'15.56E	Farm Portion
10	MARMAGELI	20	4	28°1'20.56S	26°45'19.01E	Farm Portion
11	STUIRMANSPAN	92	0	28°1'57.91S	26°46'22.14E	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

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.

No	EIA Reference No	Classification	Status of application	Distance from proposed area (km)
1	14/12/16/3/3/1/1472	Solar PV	Approved	11.5
2	12/12/20/2666/A	Solar PV	Approved	18.5
3	12/12/20/2669	Solar PV	Approved	12.4
4	14/12/16/3/3/1/1444	Solar PV	Approved	18.5
5	12/12/20/2668	Solar PV	Approved	26.6
6	12/12/20/2669/A	Solar PV	Approved	12.4
7	12/12/20/2666	Solar PV	Approved	18.5
8	12/12/20/2667	Solar PV	Approved	26.6
9	14/12/16/3/3/1/1471	Solar PV	Approved	10.5

Environmental Management Frameworks relevant to the application

No intersections with EMF areas found.

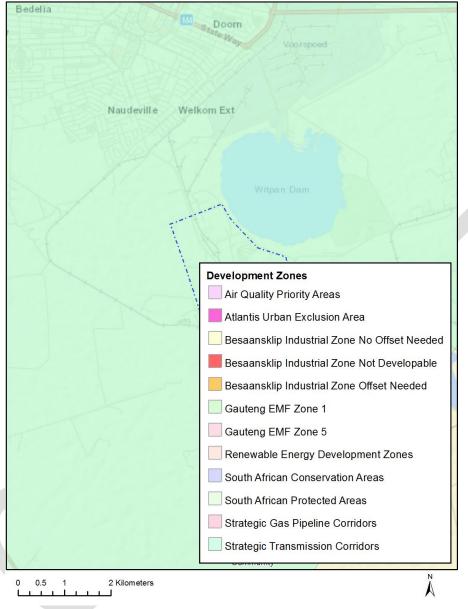
Environmental screening results and assessment outcomes

The following sections contain a summary of any development incentives, restrictions, exclusions or prohibitions that apply to the proposed development 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: Utilities Infrastructure | Electricity | Generation | Renewable | Solar | PV.

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.

Incentive	Implication
, restrictio	
n or	
prohibiti	
on	
Strategic	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Co
Transmissi	mbined_EGI.pdf
on Consider	
Corridor-	
Central	
corridor	

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



Project Location: Harmony Development Area

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 sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Agriculture Theme		Х		
Animal Species Theme		Х		
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Aquatic Biodiversity Theme	Х		
Archaeological and Cultural			Х
Heritage Theme			
Avian Theme			Х
Civil Aviation (Solar PV)		Х	
Theme			
Defence Theme			Х
Landscape (Solar) Theme	Х		
Paleontology Theme	Х		
Plant Species Theme			Х
RFI Theme			Х
Terrestrial Biodiversity Theme	Х		

Specialist assessments identified

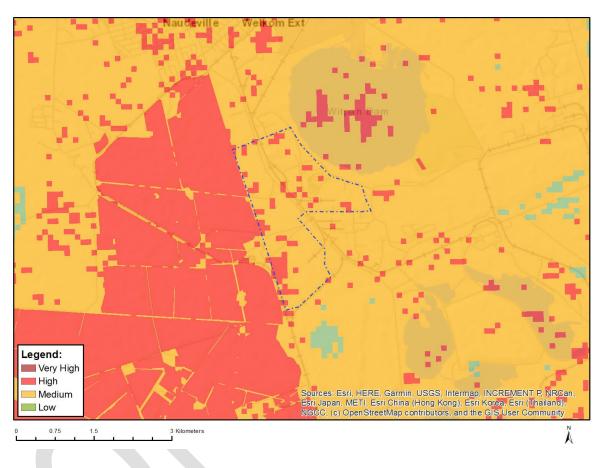
Based on the selected classification, and the environmental sensitivities of the proposed development footprint, the following list of specialist assessments have been identified for inclusion in the assessment report. It is the responsibility of the EAP to confirm this list and to motivate in the assessment report, the reason for not including any of the identified specialist study including the provision of photographic evidence of the site situation.

•••	• • • •	
N	Special	Assessment Protocol
0	ist	
	assess	
	ment	
1	Agricult ural	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /Gazetted WindAndSolar Agriculture Assessment Protocols.pdf
	Impact Assessm ent	
2	Landsca pe/Visu al Impact	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /Gazetted General Requirement Assessment Protocols.pdf
	Assessm ent	
3	Archaeo logical and Cultural Heritage Impact Assessm ent	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /Gazetted General Requirement Assessment Protocols.pdf
4	Palaeon tology Impact Assessm ent	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /Gazetted_General_Requirement_Assessment_Protocols.pdf
5	Terrestri al Biodiver sity Impact Assessm ent	<u>https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols</u> /Gazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf
6	Aquatic Biodiver sity	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf

7	Impact Assessm ent Civil Aviation Assessm ent	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /Gazetted_Civil_Aviation_Installations_Assessment_Protocols.pdf
8	Defense Assessm ent	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /Gazetted_Defence_Installations_Assessment_Protocols.pdf
9	RFI Assessm ent	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /Gazetted_General_Requirement_Assessment_Protocols.pdf
1 0	Geotech nical Assessm ent	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /Gazetted_General_Requirement_Assessment_Protocols.pdf
1 1	Socio- Economi c Assessm ent	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /Gazetted_General_Requirement_Assessment_Protocols.pdf
1 2	Plant Species Assessm ent	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /Gazetted Plant Species Assessment Protocols.pdf
1 3	Animal Species Assessm ent	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /Gazetted Animal Species Assessment Protocols.pdf

Results of the environmental sensitivity of the proposed area.

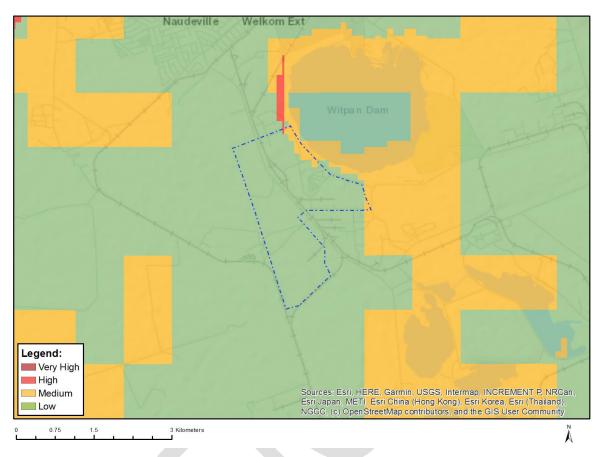
The following section represents the results of the screening for environmental sensitivity of the proposed site for relevant environmental themes associated with the project classification. It is the duty of the EAP to ensure that the environmental themes provided by the screening tool are comprehensive 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
High	Annual Crop Cultivation / Planted Pastures Rotation;Land capability;09. Moderate-High/10. Moderate- High
High	Annual Crop Cultivation / Planted Pastures Rotation;Land capability;06. Low-Moderate/07. Low- Moderate/08. Moderate
Medium	Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate

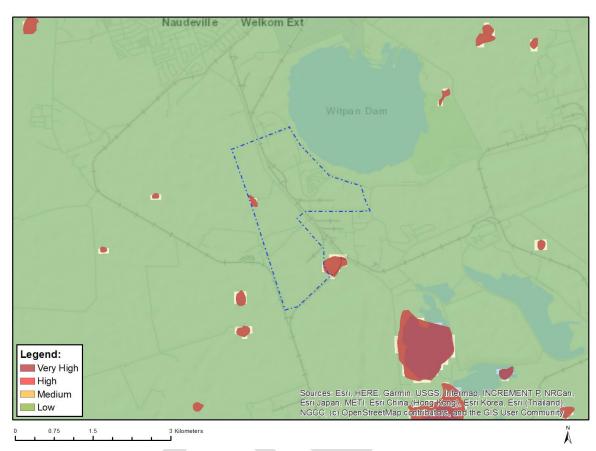


MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY

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 <u>eiadatarequests@sanbi.org.za</u> 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	Feature(s)			
High	Aves-Mycteria ibis			
Low	Subject to confirmation			
Medium	Aves-Hydroprogne caspia			
Medium	Mammalia-Ourebia ourebi ourebi			
Medium	Sensitive species 15			

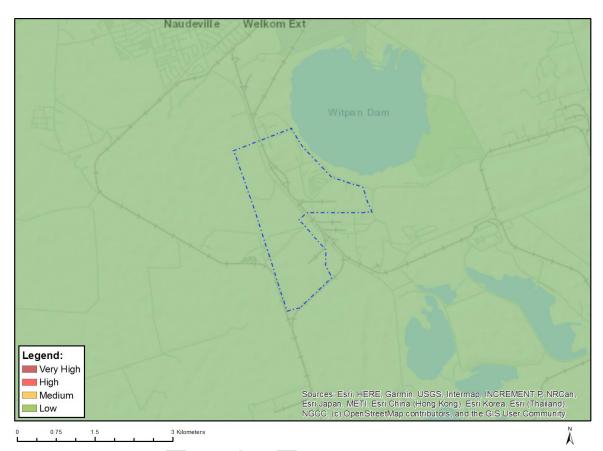


MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Х			

Sensitivity	Feature(s)
Low	Low sensitivity
Very High	Wetlands and Estuaries

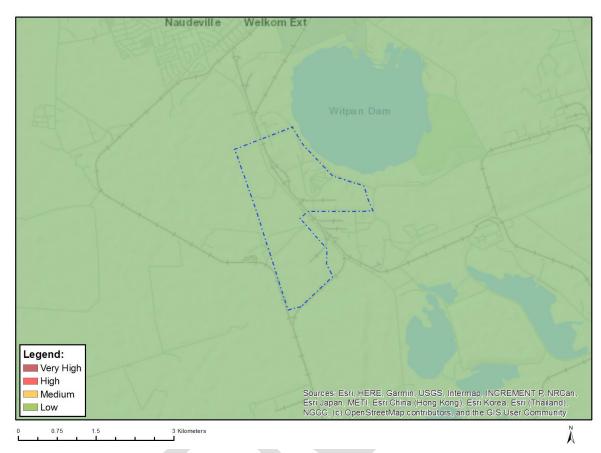
MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			Х

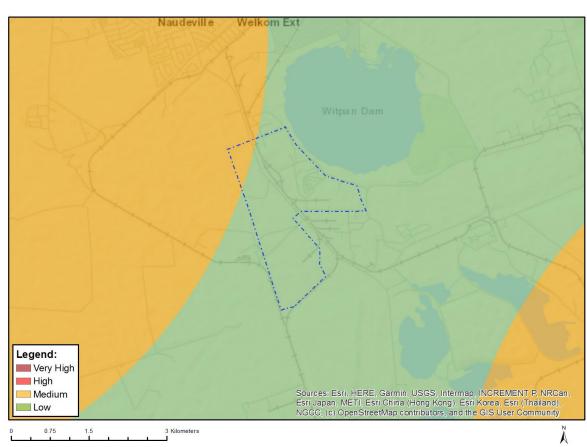
Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE AVIAN THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			Х

Sensitivity	Feature(s)
Low	Low Sensitivity



MAP OF RELATIVE CIVIL AVIATION (SOLAR PV) THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		Х	

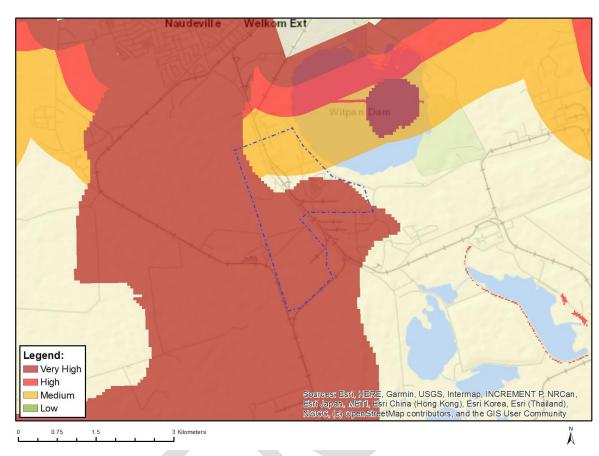
Sensitivity	Feature(s)
Low	No major or other types of civil aviation aerodromes
Medium	Within 8 km of an other civil aviation aerodrome

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MAP OF RELATIVE DEFENCE THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			Х

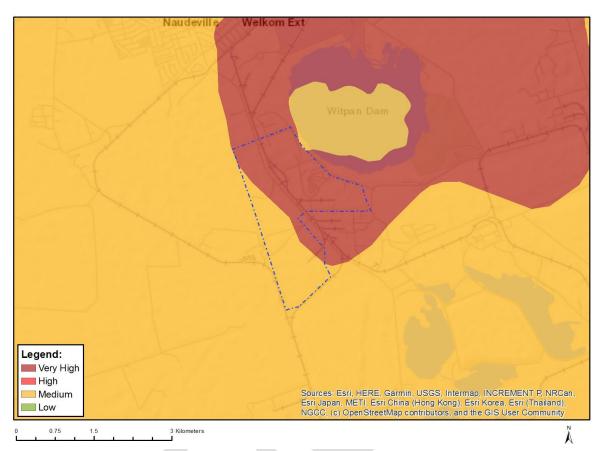
Sensitivity	Feature(s)
Low	Low sensitivity



MAP OF RELATIVE LANDSCAPE (SOLAR) THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

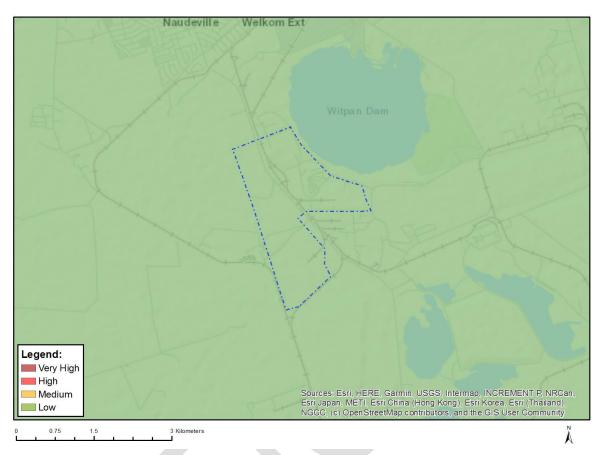
Sensitivity	Feature(s)	
Medium	Between a and 2 km of a town or village	
Very High	Mountain tops and high ridges	



MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Х			

Sensitivity	Feature(s)
Medium	Features with a Medium paleontological sensitivity
Very High	Features with a Very High paleontological sensitivity



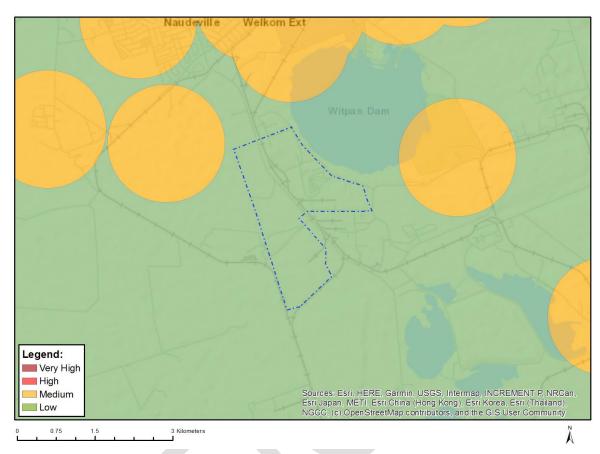
MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY

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Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			Х

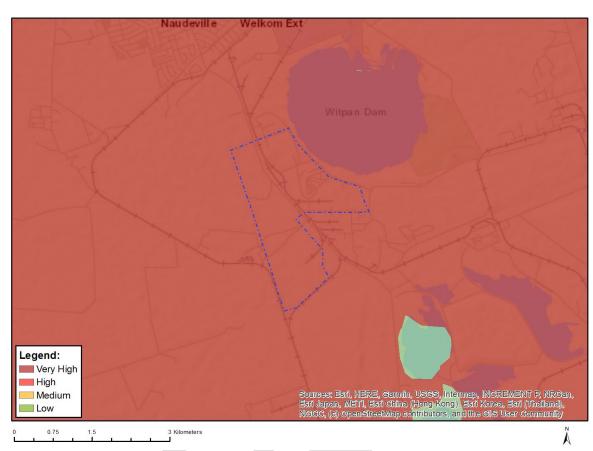
Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE RFI 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
X			

Sensitivity	Feature(s)
Very High	Critical biodiveristy area 1
Very High	Endangered ecosystem