



mineral resources

Department:
Mineral Resources
REPUBLIC OF SOUTH AFRICA

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APPLICATION FORM FOR ENVIRONMENTAL AUTHORISATIONS 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).

IMPORTANT NOTICE

Kindly note that:

1. As from 8 December 2014, this document serves as the application form, and incorporates the requisite documents that are to be submitted together with the application for the necessary environmental authorisations in terms of the said Acts.
2. This application form is applicable while the Mineral and Petroleum Resources Development Amendment Act of 2008 is in effect, as the form may require amendment should the Act be further amended.
3. Applicants are required to apply for the necessary water use licence and any other authorisations or licences to the relevant competent authorities as required by the relevant legislation. Upon acceptance of an application for a right or permit in terms of the MPRDA, applicants will be required to provide evidence to the Regional Manager that a water use licence has been applied for.
4. The Regional Manager will respond to the application and provide the reference and correspondence details of the Competent Authority, and in the event that the application for a right or permit is accepted, together with the date by which the relevant environmental reports must be submitted. Notwithstanding anything that may appear to be stated to the contrary in the acceptance letter, the timeframes are in fact aligned and the prescribed timeframes for the submission of documents as regulated by the NEMA regulations must be strictly adhered to.
5. The application must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when each space is filled with typing.
6. The failure to submit complete information as required in this application form may result in the refusal of the application for an environmental authorisation and consequently of the right or permit applied for.
7. This application must be submitted through the SAMRAD online application system of the Department of Mineral Resources under "Other documents to upload".
8. Unless protected by law, all information filled in on this application form will become public information on receipt by the competent authority. Any interested and affected party should and shall be provided with the information contained in this application on request, during any stage of the application process.
9. Please note that an application fee is payable in terms of the National Environmental Management Act and the National Waste Management Act, which fees must be paid upon lodgement of the application. Should the said application fees not be paid as prescribed the application for a right or permit in terms of the Mineral and Petroleum Resources Development Act cannot be considered to have been made in the prescribed manner and the said

application for a right or permit will have to be rejected. In this regard the type of applications must be identified in the table below.

PLEASE STATE TYPE OF AUTHORISATIONS BEING APPLIED FOR.

APPLICATION TYPE	APPLICABLE FEE	Mark with an X where applicable
NEMA S&EIR application on its own	R10 000.00	<input type="checkbox"/>
NEMA BAR application on its own	R 2 000.00	<input type="checkbox"/>
NEMWA S&EIR application on its own	R10 000.00	<input type="checkbox"/>
NEMWA BAR application on its own	R 2 000.00	<input type="checkbox"/>
NEMA S&EIR application combined with NEMWA S&EIR application	R 15 000.00	<input checked="" type="checkbox"/>
NEMA BAR application combined with NEMWA BAR application	R 3 000.00	<input type="checkbox"/>
NEMA S&EIR application combined with NEMWA BAR application	R 11 000.00	<input type="checkbox"/>

1. CONSULTATION BASIC ASSESSMENT AND/ OR SCOPING REPORT

This is an application for a new Tailings Storage Facility requiring a NEMA S&EIR as part of an Intergarted Environmental Authorisation and Waste Management License Application.

2. DETAILS OF THE APPLICANT

Project applicant:	Harmony Gold Mining Company Limited
Registration no (if any):	1950/038232/06
Trading name (if any):	-
Responsible Person, (e.g. Director, CEO, etc.):	Free State Region Environmental Manager
Contact person:	John van Wyk
Physical address:	Randfontein Office Park Corner Main Reef Rd and Ward Ave Randfontein Gauteng 1759
Postal address:	P O Box 2 Randfontein Randfontein Gauteng

Postal code:	1760	Cell:	+27 (0)83 682 4089
Telephone:	+27 (0)18 478 6519	Fax:	-
E-mail:	JVWyk@harmony.co.za		

3. ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP) INFORMATION

EAP:	Vukosi Mabunda		
Professional affiliation/registration:	Registered Professional Natural Scientist with SACNASP (134178) Registered Environmental Assessment Practitioner with EAPASA (2019/867)		
Contact person (if different from EAP):	Same as EAP		
Company:	Environmental Impact Management Services (Pty) Ltd		
Physical address:	8 Dalmeny Road, Pine Park, Randburg		
Postal address:	P.O Box 2083, Pinegowrie		
Postal code:	2123	Cell:	+27 (0)82 048 9840
Telephone:	+27 (0)11 789 7170	Fax:	+27 (0)86 571 9047
E-mail:	vukosi@eims.co.za		

If an EAP has not been appointed please ensure that an independent EAP is appointed as stipulated by the NEMA Regulations, prior to the commencement of the process.

The declaration of independence and the Curriculum Vitae (indicating the experience with environmental impact assessment and relevant application processes) of the EAP must also be attached as **Appendix 1**.

4. PROJECT DESCRIPTION

Farm Name	The proposed project area is situated within 22 farm properties distributed between Farm Harmony 222, Farm Klippan 14, Farm La Riviera 289, Farm Rustgevonden 564, Farm Saaiplaas 690, Farm Saaiplaas 771, and Farm Vaalkranz 220
Application Area (Ha)	<ul style="list-style-type: none"> Proposed TSF on existing Brand A TSF footprint of approximately 165ha; Proposed Harmony One Plant to Brand A TSF pipeline is approximately 4km long; Proposed Saaiplaas Plant to Brand A TSF pipelines either ~4.4km or ~4.6km long; Proposed Central Plant to Brand A TSF pipelines approximately 9.2km long; and Proposed 3,5m wide access road along the pipelines (approximately 20km long).
Magisterial District	Development area falls within the Matjhabeng Local Municipality Wards 8, 11 and 24 of the Lejweleputswa District Municipality administrative area.
Distance and direction from nearest towns	Brand A TSF is located at 28° 0'53.81"S; 26°50'18.34"E between Bronville and Saaiplaas in Welkom. The proposed development site is approximately 10.5km

	southeast of Welkom central business district area.		
21-digit Surveyor General Code for each Portion	Farm Name:	Portion:	21 Digit Surveyor General Code
	Farm Harmony 222	72	F0350000000022200072
	Farm Klippan 14	1	F0390000000001400001
	Farm Klippan 14	2	F0390000000001400002
	Farm Klippan 14	15	F0390000000001400015
	Farm La Riviera 289	2	F0350000000028900002
	Farm La Riviera 289	3	F0350000000028900003
	Farm La Riviera 289	Re/4	F0350000000028900004
	Farm Rustgevonden 564	1	F0350000000056400001
	Farm Saaiplaaas 690	Re/0	F0350000000069000000
	Farm Saaiplaaas 690	1	F0350000000069000001
	Farm Saaiplaaas 690	5	F0350000000069000005
	Farm Saaiplaaas 690	7	F0350000000069000007
	Farm Saaiplaaas 690	9	F0350000000069000009
	Farm Saaiplaaas 690	10	F0350000000069000010
	Farm Saaiplaaas 690	11	F0350000000069000011
	Farm Saaiplaaas 690	15	F0350000000069000015
	Farm Saaiplaaas 771	Re/0	F0350000000077100000
	Farm Saaiplaaas 771	2	F0350000000077100002
	Farm Saaiplaaas 771	6	F0350000000077100006
Farm Saaiplaaas 771	12	F0350000000077100012	
Farm Saaiplaaas 771	15	F0350000000077100015	
Farm Vaalkranz 220	14	F0350000000022000014	
Locality map	Please find Locality attached as Appendix 2 .		
Description of the overall activity. (Indicate Mining Right, Mining Permit, Prospecting right, Bulk Sampling, Production Right, Exploration Right, Reconnaissance permit, Technical co-operation permit, Additional listed activity)	<p>Harmony Gold Mining Company Limited (Harmony) (the applicant) holds an approved Mining Right (MR) and Environmental Management Programme (EMPr), in terms of the Minerals and Petroleum Resources Development Act (Act 28 of 2002, as amended) (MPRDA), for the mining of gold at various operations in the Welkom area. The applicant owns and operates a number of Gold Mines and plants in the Welkom region in the Free State and currently deposits tailings onto the Free State South 2 Tailings Storage Facility (TSF), St. Helena 4 TSF, St. Helena 123 TSF, Dam 23 TSF, Brand D TSF and Target 1&2 TSF. The current planned Life of Mine (LOM) of the Free State operations exceed the available deposition capacity of these TSFs. As such, Harmony is undertaking a feasibility assessment to redeposit slurry on the footprint of Brand A TSF which has largely been reclaimed to date.</p> <p>The proposed development is a tailings storage facility. Tailings are the mineral waste remaining after ore processing to extract mineral concentrates and are typically stored within an engineered containment structure known as a tailing storage facility or TSF.</p>		

	<p>Tailings differ from overburden: the waste rock or material that overlies an ore or mineral body and is displaced unprocessed and stockpiled separately (or co-disposed with tailings) during mining. Tailings can be in the form of liquid, solid, or a slurry of fine particles. The proposed Brand A TSF is a slurry TSF.</p> <p>Slurry deposition is proposed on the Brand A TSF footprint and the existing Return Water Dam (RWD) will be used for the process. In order to allow for slurry deposition on Brand A TSF from either of the operational plants, a number of new residue deposition pipelines will be required. The residue deposition pipelines will have a NB diameter of more than 360mm with a peak throughput of more than 120 ℓ/s. The pipelines will be flanged steel pipelines and installed above-ground on pre-cast concrete plinths. The proposed Harmony One Plant to Brand A TSF pipeline is approximately 4km long, the Saaiplaas Plant to Brand A TSF pipelines either ~4.4km (alternative 1) or ~4.6km long (alternative 2) and the proposed Central Plant to Brand A TSF pipelines approximately 9.2km long. A 3.5m wide access road (approximately 20km long), adjacent to the pipelines, will be cleared/graded to provide access for construction, maintenance and inspections. The precise dimensions and details of the proposed new TSF (proposed to be constructed on the footprint of the reclaimed TSF) will be provided in the EIA Report once the engineering designs have been completed</p>
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5. ACTIVITIES TO BE AUTHORIZED

(Please provide copies of Environmental Authorisations obtained for the same property as **Appendix 3**).

(For an application for authorisation indicated. Please note that for a project that involves more than one listed activity that, together, make up one development proposal, all the listed activities pertaining to this application must be included. Please note that any authorisation that may result from this application will only cover activities specifically applied for). (Attach a proposed site plan, drawn to a scale acceptable to the competent Authority, showing the location of all the activities to be applied for, as **Appendix 2**)

Name of activity	Aerial extent of the activity	Listed Activity	Applicable listing notice	Waste management authorisation
<p>(E.g. For prospecting - drill site, site camp, ablution 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, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines; conveyors, etc...etc...etc.)</p>	Ha or m ²	(Mark with an X where applicable or affected).		(Indicate whether an authorisation is required in terms of the Waste Management Act).

Name of activity	Aerial extent of the activity	Listed Activity	Applicable listing notice	Waste management authorisation (Mark with an X)
<p>Tailings Storage Facility</p> <p>The disposal of any quantity of hazardous waste to land.</p> <p><i>Proposed project entails the development of a Tailings which is the mineral waste remaining after ore processing to extract mineral concentrates and typically stored within an engineered containment structure known as a tailing storage facility or TSF.</i></p>	165ha	B (7)	GN 921	X
<p>Tailings Storage Facility</p> <p>The construction of a facility for a waste management activity listed in Category B of this Schedule (not in isolation to associated waste management activity).</p> <p><i>The proposed Brand A TSF is a waste management facility listed in Category B of NEMWA.</i></p>	165ha	B (10)	GN 921	X
<p>Tailings Storage Facility</p> <p>The establishment or reclamation of a residue stockpile or residue deposit resulting from activities which require a mining right, exploration right or production right in terms of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002).</p> <p><i>Harmony is undertaking a feasibility assessment to redeposit slurry on the footprint of Brand A TSF which has largely been reclaimed to date.</i></p>	165ha	B (11)	GN 921	X
<p>Pipelines for TSF</p> <p>The development and related operation of infrastructure exceeding 1 000 metres in length for the bulk transportation of sewage, effluent, process water, waste water, return water, industrial discharge or slimes-</p> <p>(i) with an internal diameter of 0,36 metres or more; or</p> <p>(ii) with a peak throughput of 120 litres per second or more.</p> <p><i>In order to allow for slurry deposition on Brand A TSF from either of the operational plants (Central Plant, Saaiplaas Plant and One Plant), a number of new residue deposition pipelines will be</i></p>	~22km	Activity 10	GN983	

Name of activity	Aerial extent of the activity	Listed Activity	Applicable listing notice	Waste management authorisation
<i>required. The residue deposition pipelines will have a NB diameter of more than 0.36m with a peak throughput of more than 120 l/s.</i>				
<p>Pipelines for TSF and Maintenance Road</p> <p>The infilling or depositing of any material of more than 10 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 10 cubic metres from a watercourse.</p> <p><i>The proposed pipelines and maintenance road will likely intersect wetlands and may require infilling of more than 10m³ to ensure structural integrity.</i></p>	~22km	Activity 19	GN983	
<p>Tailings Storage Facility – Mining Right variation</p> <p>Any activity including the operation of that activity which requires an amendment or variation to a right or permit in terms of section 102 of the Mineral and Petroleum Resources Development Act, as well as any other applicable activity contained in this Listing Notice or in Listing Notice 3 of 2014, required for such amendment.</p> <p><i>The project is proposed on an area with an existing mining right (FS 30/5/1/2/2/82 MR) and will require an amendment to that mining right through a MPRDA Section 102 application.</i></p>	165ha	Activity 21D	GN983	
<p>Tailings Storage Facility</p> <p>The development of facilities or infrastructure for any process or activity which requires a permit or licence or an amended permit or licence in terms of national or provincial legislation governing the generation or release of emissions, pollution or effluent.</p> <p><i>Proposed Brand TSF A will involve the discharging of effluent, thus, requiring a Water Use License in terms of Section 21g.</i></p>	165 ha	Activity 6	GN984	
<p>Tailings Storage Facility and associated infrastructure</p> <p>The clearance of an area of 300 square metres or more of indigenous vegetation except where such clearance of indigenous vegetation is required for maintenance purposes undertaken in accordance with a maintenance management plan.</p> <p>b. Free State</p> <p>i. Within any critically endangered or endangered ecosystem listed in terms of section 52 of the NEMBA or prior to the</p>	~300m ²	Activity 12	GN985	

Name of activity	Aerial extent of the activity	Listed Activity	Applicable listing notice	Waste management authorisation
<p>publication of such a list, within an area that has been identified as critically endangered in the National Spatial Biodiversity Assessment 2004;</p> <p>ii. Within critical biodiversity areas identified in bioregional plans;</p> <p>iv. Areas within a watercourse or wetland; or within 100 metres from the edge of a watercourse or wetland.</p> <p><i>Clearance of vegetation in the preparation of the construction footprint will result in a potential impact on listed endangered ecosystem and critical biodiversity areas.</i></p>				
<p>Tailings Storage Facility and associated infrastructure</p> <p>"The development of-</p> <p>(ii) infrastructure or structures with a physical footprint of 10 square metres or more;</p> <p>where such development occurs-</p> <p>(a) within a watercourse;</p> <p>(c) if no development setback has been adopted, within 32 metres of a watercourse, measured from the edge of a watercourse.</p> <p>b. Free State</p> <p>(ff) Critical biodiversity areas or ecosystem service areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans.</p> <p><i>The proposed footprint for the TSF, pipelines and access roads is located within 32m of wetlands and will exceed 10 square metres.</i></p>	165ha	Activity 14	GN985	

6. PUBLIC PARTICIPATION

(Provide details of the public participation process proposed for the application as required by Regulation.

Details of the Public Participation process to be followed.

6.1.1. IDENTIFICATION OF INTERESTED AND AFFECTED PARTIES TO BE CONSULTED

IDENTIFICATION CRITERIA	Mark with an X where applicable	
	<u>YES</u>	<u>NO</u>
Will the landowner be specifically consulted?	X	
Will the lawful occupier on the property other than the Landowner be consulted?	X	
Will a tribal authority or host community that may be affected be consulted?	X	

Will recipients of land claims in respect of the area be consulted?	X	
Will the landowners or lawful occupiers of neighbouring properties be identified?	X	
Will the local municipality be consulted?	X	
Will the Authority responsible for power lines within 100 metres of the area be consulted?	X	
Will Authorities responsible for public roads or railway lines within 100 metres of the area applied for be consulted?	X	
Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted?	X	
Will the Provincial Department responsible for the environment be consulted?	X	
Will all of the parties identified above be provided with a description of the proposed mining /prospecting operation as referred above?	X	
Will all the parties identified above be requested in writing to provide information as to how their interests (whether it be socio-economic, cultural, heritage or environmental) will be affected by the proposed mining project?	X	
Other, Specify		

6.1.2. DETAILS OF THE ENGAGEMENT PROCESS TO BE FOLLOWED

Steps to be taken to notify interested and affected parties (Describe the process to be undertaken to consult interested and affected parties including public meetings and one on one consultations. NB the affected parties must be specifically consulted regardless of whether or not they attended public meetings. Photographs of notice boards, and copies of advertisements and notices notifying potentially interested and affected parties of the proposed application must be attached as Appendix 4).	PROVIDE DESCRIPTION HERE
	<p>Interested and Affected Parties (I&AP's) have been notified of the project via registered letters, emails and facsimiles including distribution of a Background Information Document (BID). Site notices and posters have been placed in and around the application area.</p> <p>An initial notification period has been undertaken for this project. A total of nineteen (19) site notices have been placed in and around the proposed expansion application area; in addition, newspaper advertisements were placed in the newspapers which are widely distributed in the area. The public participation process has been, and will continue to be, undertaken in accordance with the NEMA process and the 2014 Regulations. The scoping report will be made available for public review and comment for a period of 30 days, within the prescribed timeframes following submission of this Application Form. A further period of 30 days will be provided to I&AP's to comment on the Draft EIA/EMPr during that phase of the application process. The information submitted by I&AP's via any form will be utilised during the Impact Assessment and compilation of the Scoping and EIAR/EMPr.</p>

<p>Information to be provided to Interested and Affected Parties.</p>	<p>Compulsory</p> <ul style="list-style-type: none"> • The site plans. • List of activities to be authorised. • Scale and extent of activities to be authorised. • Typical impacts of activities to be authorised. • The duration of the activity. • 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. <p>Other, specify:</p> <ul style="list-style-type: none"> • The purpose of the proposed project. • Details of the affected properties (including parent farm and portion). • Details of the MPRDA, NEMA and NEMWA Regulations that must be adhered to. • The activities being applied for. • Date by which comment, concerns and objections must be submitted. • Contact details of the Environmental Assessment Practitioner (EAP).
<p>Information to be required from Interested and Affected Parties.</p>	<p>Compulsory</p> <ul style="list-style-type: none"> • To provide information on how they consider that the proposed activities will impact on them or their socio-economic conditions. • To provide written responses stating their suggestions to mitigate the anticipated impacts of each activity. • To provide information on current land uses and their location within the area under consideration. • To provide information on the location of environmental features on site to make proposals as to how, and to what standard, the impacts on site can be remedied. • To mitigate the potential impacts on their socio-economic conditions to make proposals as to how the potential impacts can be managed, avoided or remedied. <p>Other, Specify:</p> <ul style="list-style-type: none"> • Details of the landowner and information on lawful occupiers. • Details of any communities existing within the area. • Details of any Tribal Authorities within the area. • Details of any other I&AP's that need to be notified. • Details on any land developments proposed. • Details of any perceived impacts to the environment that should be considered in the Scoping and EIAR. • Any specific comments, concerns or objections to the proposed mining expansion project.

7. DESCRIPTION OF THE ASSESSMENT PROCESS TO BE UNDERTAKEN

ITEM	DESCRIPTION
<p>Environmental attributes. Describe how the Environmental attributes associated with the development footprint will be determined.</p>	<p>For Scoping Phase, the description of the existing status of the current receiving environment will be compiled through site verification by the EAP, desktop data, available GIS information as well as from recent monitoring reports and available information from the existing mine. This will be updated in the EIA phase once detailed specialist investigations have been completed.</p>
<p>Identification of impacts and risks. (Describe the process that will be used to identify impacts and risks.</p>	<p>The identification of potential impacts and risks for assessment will be undertaken through I&AP consultation and the development of an in depth understanding of the activities, actions and processes to be undertaken on site based on the EAP's experience with similar projects as well as input from specialists. As such, the potential impacts and risks on broad environmental aspects, in respect of each of the main project actions, activities and processes will be assessed during the Scoping and EIA process.</p> <p>The impact assessment methodology to be used is guided by the requirements of the NEMA EIA Regulations. The broad approach to the significance rating methodology is to determine the environmental risk (ER) by considering the consequence (C) of each impact (comprising Nature, Extent, Duration, Magnitude, and Reversibility) and relate this to the probability/likelihood (P) of the impact occurring. This determines the environmental risk. In addition, other factors, including cumulative impacts, public concern, and potential for irreplaceable loss of resources, are used to determine a prioritisation factor (PF) which is applied to the ER to determine the overall significance (S).</p>
<p>Consideration of alternatives. Describe how alternatives, and in particular the alternatives to the proposed site layout and possible alternative methods or technology to be applied will be determined.</p>	<p>The identification and assessment of alternatives is a key component to the success of any EIA process. Essentially, alternatives represent different means of meeting the general purpose and need of the proposed project through the identification of the most appropriate method of development. Two levels of alternative screening will be investigated and considered which culminate into the identification of the feasible development alternative. The first level alternatives include land use, location, mining method, etc. These alternatives will determine the optimal placement and process for the proposed mining operation. After these viable alternatives have been assessed (if any), the level two alternatives; including technology, phasing and site layout alternatives will be considered in order to ensure the best practicable option is proposed for the activity.</p>

	<p>Several alternative sites were identified and assessed as part of a 2008 study completed by Golder Environmental. As part of the 2008 Golder Study various specialist input was obtained from ecological, surface water and groundwater specialists. During a Steering Committee meeting involving various stakeholders including DWS that was convened on the 25 October 2007 the site selection findings were discussed and an optimal site selected. Brand A TSF was agreed upon as the preferred site for the a new TSF, in conjunction with the proposed Nooitgedacht TSF (as agreed by the Steering Committee). The reason for this is that the proposed footprint is largely brownfields . The resultant negative impacts on agriculture and ecosystems are considered to be negligible but outweighed by the positive attributes of the site. Therefore, based on the project description, the one viable location has been identified for the Brand A TSF and therefore the location/property alternatives are not applicable to this project.</p>
<p>Process to assess and rank impacts. Describe the process to be undertaken to identify, assess and rank the impacts and risks each individual activity.</p>	<p><u>Method of Assessing Impacts:</u></p> <p>The impact assessment methodology is guided by the requirements of the NEMA EIA Regulations. The broad approach to the significance rating methodology is to determine the <u>environmental risk (ER)</u> by considering the <u>consequence (C)</u> of each impact (comprising Nature, Extent, Duration, Magnitude, and Reversibility) and relate this to the <u>probability/likelihood (P)</u> of the impact occurring. This determines the environmental risk. In addition, other factors, including cumulative impacts, public concern, and potential for irreplaceable loss of resources, are used to determine a <u>prioritisation factor (PF)</u> which is applied to the ER to determine the overall <u>significance (S)</u>.</p> <p><u>Determination of Environmental Risk:</u></p> <p>The significance (S) of an impact is determined by applying a prioritisation factor (PF) to the environmental risk (ER).</p> <p>The environmental risk is dependent on the consequence (C) of the particular impact and the probability (P) of the impact occurring. Consequence is determined through the consideration of the Nature (N), Extent (E), Duration (D), Magnitude (M), and reversibility (R) applicable to the specific impact.</p> <p>For the purpose of this methodology the consequence of the impact is represented by:</p> $C = (E+D+M+R) \times N$ <p style="text-align: center;">4</p>

Each individual aspect in the determination of the consequence is represented by a rating scale as defined in Table 1.

TABLE 1: CRITERIA FOR DETERMINING IMPACT CONSEQUENCE

Aspect	Score	Definition
Nature	- 1	Likely to result in a negative/ detrimental impact
	+1	Likely to result in a positive/ beneficial impact
Extent	1	Activity (i.e. limited to the area applicable to the specific activity)
	2	Site (i.e. within the development property boundary),
	3	Local (i.e. the area within 5 km of the site),
	4	Regional (i.e. extends between 5 and 50 km from the site)
	5	Provincial / National (i.e. extends beyond 50 km from the site)
Duration	1	Immediate (<1 year)
	2	Short term (1-5 years),
	3	Medium term (6-15 years),
	4	Long term (the impact will cease after the operational life span of the project),
	5	Permanent (no mitigation measure of natural process will reduce the impact after construction).
Magnitude/ Intensity	1	Minor (where the impact affects the environment in such a way that natural, cultural and social functions and processes are not affected),
	2	Low (where the impact affects the environment in such a way that natural, cultural and social functions and processes are slightly affected),
	3	Moderate (where the affected environment is altered but natural, cultural and social functions and processes continue albeit in a modified way),
	4	High (where natural, cultural or social functions or processes are altered to the extent that it will temporarily cease), or

	5	Very high / don't know (where natural, cultural or social functions or processes are altered to the extent that it will permanently cease).
Reversibility	1	Impact is reversible without any time and cost.
	2	Impact is reversible without incurring significant time and cost.
	3	Impact is reversible only by incurring significant time and cost.
	4	Impact is reversible only by incurring prohibitively high time and cost.
	5	Irreversible Impact

Once the C has been determined the ER is determined in accordance with the standard risk assessment relationship by multiplying the C and the P (refer to). Probability is rated/scored as per Table 2.

Table 2: Probability Scoring

Probability	1	Improbable (the possibility of the impact materialising is very low as a result of design, historic experience, or implementation of adequate corrective actions; <25%),
	2	Low probability (there is a possibility that the impact will occur; >25% and <50%),
	3	Medium probability (the impact may occur; >50% and <75%),
	4	High probability (it is most likely that the impact will occur- > 75% probability), or
	5	Definite (the impact will occur),

The result is a qualitative representation of relative ER associated with the impact. ER is therefore calculated as follows:

$$ER = C \times P$$

Table 3: Determination of Environmental Risk

Consequence	5	5	10	15	20	25
	4	4	8	12	16	20
	3	3	6	9	12	15

	2	2	4	6	8	10
	1	1	2	3	4	5
		1	2	3	4	5
	Probability					

The outcome of the environmental risk assessment will result in a range of scores, ranging from 1 through to 25. These ER scores are then grouped into respective classes as described in Table 4.

Table 4: Significance Classes

Environmental Risk Score	
Value	Description
< 9	Low (i.e. where this impact is unlikely to be a significant environmental risk),
≥9; <17	Medium (i.e. where the impact could have a significant environmental risk),
≥ 17	High (i.e. where the impact will have a significant environmental risk).

The impact ER will be determined for each impact without relevant management and mitigation measures (pre-mitigation), as well as post implementation of relevant management and mitigation measures (post-mitigation). This allows for a prediction in the degree to which the impact can be managed/mitigated.

Impact Prioritisation:

Further to the assessment criteria presented above it is necessary to assess each potentially significant impact in terms of:

- Cumulative impacts; and
- The degree to which the impact may cause irreplaceable loss of resources.

In addition, it is important that the public opinion and sentiment regarding the development and consequent potential impacts is considered in the decision-making process. In an effort to ensure that these factors are considered, an impact prioritisation factor (PF) will be applied to each impact ER (post-mitigation). This

prioritisation factor does not aim to detract from the risk ratings but rather to focus the attention of the decision-making authority on the higher priority/significance issues and impacts. The PF will be applied to the ER score based on the assumption that relevant suggested management/mitigation measures are implemented.

Table 5: Criteria for Determining Prioritisation

Public response (PR)	Low (1)	Issue not raised in public response.
	Medium (2)	Issue has received a meaningful and justifiable public response.
	High (3)	Issue has received an intense meaningful and justifiable public response.
Cumulative Impact (CI)	Low (1)	Considering the potential incremental, interactive, sequential, and synergistic cumulative impacts, it is unlikely that the impact will result in spatial and temporal cumulative change.
	Medium (2)	Considering the potential incremental, interactive, sequential, and synergistic cumulative impacts, it is probable that the impact will result in spatial and temporal cumulative change.
	High (3)	Considering the potential incremental, interactive, sequential, and synergistic cumulative impacts, it is highly probable/definite that the impact will result in spatial and temporal cumulative change.
Irreplaceable loss of resources (LR)	Low (1)	Where the impact is unlikely to result in irreplaceable loss of resources.
	Medium (2)	Where the impact may result in the irreplaceable loss (cannot be replaced or substituted) of resources but the value (services and/or functions) of these resources is limited.
	High (3)	Where the impact may result in the irreplaceable loss of resources of high value (services and/or functions).

The value for the final impact priority is represented as a single consolidated priority, determined as the sum of each individual criteria represented in **Table 5**. The impact priority is therefore determined as follows:

$$\text{Priority} = \text{PR} + \text{CI} + \text{LR}$$

The result is a priority score which ranges from 3 to 9 and a consequent PF ranging from 1 to 2 (Refer to Table 6).

Table 6: Determination of Prioritisation Factor

Priority	Ranking	Prioritisation Factor
3	Low	1
4	Medium	1.17
5	Medium	1.33
6	Medium	1.5
7	Medium	1.67
8	Medium	1.83
9	High	2

In order to determine the final impact significance, the PF is multiplied by the ER of the post mitigation scoring. The ultimate aim of the PF is to be able to increase the post mitigation environmental risk rating by a full ranking class, if all the priority attributes are high (i.e. if an impact comes out with a medium environmental risk after the conventional impact rating, but there is significant cumulative impact potential, significant public response, and significant potential for irreplaceable loss of resources, then the net result would be to upscale the impact to a high significance).

Table 7: Final Environmental Significance Rating

Environmental Significance Rating	
Value	Description
≤ -17	High negative (i.e. where the impact must have an influence on the decision process to develop in the area).
$> -17 \leq -9$	Medium negative (i.e. where the impact could influence the decision to develop in the area).
> -9	Low negative (i.e. where this impact would not have a direct influence on the decision to develop in the area).
0	No impact
< 9	Low positive (i.e. where this impact would not have a direct influence on the decision to develop in the area).
$\geq 9 < 17$	Medium positive (i.e. where the impact could influence the decision to develop in the area).

	≥17	High positive (i.e. where the impact must have an influence on the decision process to develop in the area).
<p>Contribution of specialist reports Describe how specialist reports, if required, will be taken into consideration and inform the impact identification, assessment and remediation process.</p>		<p>Several EIA-phase specialist studies will be undertaken to address the key issues. The specialist studies involve the gathering of data relevant to identifying and assessing environmental impacts that may occur as a result of the proposed project. These impacts were then assessed according to pre-defined rating scales. Specialists also recommend appropriate mitigation / control or optimisation measures to minimise potential negative impacts or enhance potential benefits, respectively. The following specialist studies are being conducted:</p> <ul style="list-style-type: none"> • Soils and Agricultural Impact Assessment; • Visual Impact Assessment; • Air Quality Assessment; • Groundwater Assessment; • Terrestrial Biodiversity Assessment; • Health Risk and Radiological Impact Assessment; • Aquatics and Wetland Assessment; • Socio-economic Impact Assessment; • Climate Change Assessment; • Heritage Impact Assessment; • Palaeontology Impact Assessment; and • Closure and Rehabilitation Plan. <p>All specialists are required to adhere to the the EAPs method of assessing impacts, as detailed above. The specialist studies will inform the EIA phase assessment (EIAR/EMPr) with input into the sensitivity mapping. The specialists will also be required to comply with the National and/or Provincial protocols.</p> <p>It is crucial to note that the Sensitivity Mapping is to be used as a first level mechanism to provide guidance (where viable) regarding design and layout and identify operational alternatives for further assessment. In addition, the mapping exercise allows the identification of certain spatial characteristics which may not be compatible or desirable for the purpose of infrastructure placement as well as (where possible) circumnavigating potential fatal flaws.</p>
<p>Determination of impact management objectives and outcomes. Describe how impact management objectives will be</p>		<p>The objectives of the impact management measures shall be to firstly anticipate and avoid risks and impacts. This shall be accomplished through the adoption of a risk and impact assessment process which aims to identify all relevant environmental and social risks and receptors that are likely to be affected by such risks and impacts, including the issues identified by I&AP's during the consultation process. The impact and risk</p>

<p>determined for each activity to address the potential impact at source, and how the impact management outcomes will be aligned with standards.</p>	<p>identification process shall take into consideration each activity and its associated potential impacts. The impact management objectives will be incorporated into and EMPr. The EMPr developed for the project shall include mechanisms whereby social and environmental risk and impacts shall be avoided and mitigated. The objectives of this environmental management framework shall be:</p> <ul style="list-style-type: none"> • To anticipate potential risks and impacts associated with each activity pre-emptively through the implementation of risk assessment techniques and early warning systems such as environmental monitoring and inspections; • To develop and implement preventative measures to ensure known risks and impacts are addressed at source wherever possible (e.g. spill prevention procedures); • To implement detailed management measures to ensure that where avoidance of impacts is not possible, mitigation measures are in place to minimize impacts to workers, affected landowners/occupiers/communities, and the environment; and • To provide a framework for adaptive environmental management within the EMPr whereby impacts from unplanned events or incidents caused by the project may be effectively controlled to minimise impacts to workers, affected landowners/occupiers/communities, and the environment. <p>The management and mitigation measures shall be developed in accordance with applicable standards and guidelines, which may include, but is not limited to:</p> <ul style="list-style-type: none"> • Legislated Standards (e.g.: air quality guidelines and standards); • South African National Standards (SANS) (e.g.: SANS water quality standards); • Where Applicable, International Standards and Guidelines; • Applicable National and Regional Frameworks (e.g.: Bioregional Plans; Spatial Development Frameworks, National Protected Area Expansion Strategy Focus Areas, Environmental Management Frameworks, etc.); • Applicable Guidelines developed by authorities (e.g.: DMRE guidelines, NEMA EIA guidelines); and • Other Applicable guidelines (e.g.: Mining and Biodiversity Guidelines). <p>To ensure that the impact management outcomes can be monitored, and performance evaluated, performance targets and indicators shall be developed where appropriate. Compliance and alignment with the prescribed standards shall be measures against the defined Performance Targets and Indicators through the implementation of a system of inspections and compliance monitoring as defined in the EMPr.</p>
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8. OTHER AUTHORIZATION REQUIRED

LEGISLATION	Mark with an X where applicable			
	AUTHORISATION REQUIRED		APPLICATION SUBMITTED	
	YES	NO	YES	NO
SEMA's				
National Environmental Management: Air Quality Act		X		X
National Environmental Management: Biodiversity Act		X		X
National Environmental Management: Integrated Coastal Management Act		X		X
National Environmental Management: Protected Areas Act		X		X
National Environmental Management: Waste Act	X		X	
National legislation				
Mineral and Petroleum Resources Development Act	X			X
National Water Act	X			X
National Heritage Resources Act		X		X
Others: Please specify		X		X

Please provide proof of submission of applications in Appendix 5¹.

In the event that an authorization in terms of the National Environmental Waste Management Act is required for any of the activities applied for please state so clearly in order for such an authorisation to be considered as part of this application.

Please take note that the applicability of the following Acts listed below will be confirmed during the EIA Phase of the project:

- *National Environmental Management: Biodiversity Act (particularly relating to permit applications for the removal/relocation of potential protected species identified on site); and*
- *National Heritage Resources Act (particularly relating to potential heritage features and archaeological finds).*

Should it be found that any listed activities within these Acts will be triggered; the necessary permit and license application process will be followed at a reasonable time in accordance with the regulations. As far as possible, the intended outcome of the EIA and EMP is to prevent the impacts relating to the above-mentioned legislation.

¹ All applications are captured by this application. Applications to DWS to be completed once final EIA report is ready for submission.

9. DRAFT EMPR

For consultation purposes, provide a high-level approach to the management of the potential environmental impacts of each of the activities applied for.

ACTIVITIES (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.)	PHASE (of operation in which activity will take place) State, Planning and design, Pre-Construction, Construction, Operational, Rehabilitation, Closure, Post closure.	SIZE AND SCALE² (of Disturbance) (Volumes, tonnages and hectares or m ²)	TYPICAL MITIGATION MEASURES (E.g. storm water control, dust control, noise control, access control, rehabilitation etc. etc.)	COMPLIANCE WITH STANDARDS (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)
Excavations / Civil Works	Construction / operation	165ha	Rehabilitation, avoidance of high sensitivity areas, dust and noise control	The typical mitigation measures recommended will comply with all prescribed environmental management standards and practices.
Tailings facility	Operation	165ha	Dust control, avoidance of sensitive areas, height control, contamination control measures, erosion control.	

² The size and scale of disturbance is a rough estimated at this stage. More accurate estimates will be provided during the EIA phase.

Roads and Pipelines and other associated infrastructure	Construction and Operation	~22km	Avoidance of sensitive areas, dust and noise control	
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10. CLOSURE PLAN

In the space provided under each heading below, please provide a high-level description of the plan for closure and the information that will be provided in the draft EMPr accompanying the draft basic assessment report or environmental impact reports going forward.

<p>Baseline environment</p> <p>Describe how the baseline environment will be determined with the input of interested and affected parties and due cognizance of the current land uses and or existing biophysical environment</p>	<p>The baseline environment will be assessed in two phases namely:</p> <ul style="list-style-type: none"> • Phase 1: Scoping & Sensitivity Mapping; and • Phase 2: Environmental Impact Assessment (EIA) and Integrated Environmental Management Programme (IEMPr) <p>Phase 1: Scoping:</p> <p>This will require a detailed desktop investigation by the EAP to familiarise themselves with the proposed application area and broadly determine the existing status quo of the receiving environment.</p> <p>The Scoping Report will conform to the requirements of the previously mentioned Acts and include the following:</p> <ul style="list-style-type: none"> • A description of the receiving environment; • Identification and description of anticipated impacts; • Identify and describe reasonable land use or development alternatives; • A description of the process used to engage I&AP's and other Stakeholders; • A high-level impact assessment with the inclusion of preliminary mitigation measures; and • A description of further investigations required in the EIA (Plan of Study). <p>Review of the report by I&AP's and submission of the report to the authorities will conclude Phase 1.</p> <p>Phase 2: Integrated Environmental Impact Assessment (IEIA) and Environmental Management Programme (EMPr):</p> <p>During the EIA phase of the project, a more detailed investigation will be undertaken for the likely disturbance footprint. On completion of the EIA level assessments, the EAP will begin compilation of the EMPr. The IEIA and EMPr will include the following information:</p> <ul style="list-style-type: none"> • A detailed description of the receiving environment; • A description of the Public Participation Process methodology; • A record of the findings of the Public Participation Process; • An Environmental Impact Assessment (EIA) during all project phases;
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- An Environmental Management Programme (EMPr) during all project phases;
- Closure and Rehabilitation Plans;
- Calculation of the Financial Provisions;
- A detailed description of the need and desirability of the proposed activity including advantages and disadvantages that the activity will have to the environment and community;
- A description of the methodology used in determining significance of identified impacts;
- A description and comparative assessment of all alternatives identified;
- A summary of the findings and recommendations of any Specialist Studies;
- A description of all identified impacts and an assessment of the significance of each impact before and after implementation of proposed mitigation measures;
- A description of assumptions, uncertainties and gaps in knowledge;
- A recommendation as to whether the activity should be authorised and under what conditions;
- An Environmental Impact Statement including key findings;
- A draft Environmental Management Plan; and
- Copies of any and all specialist studies carried out.

Each identified impact will be assessed for significance by investigating and ranking the nature, duration, extent, magnitude and probability of each impact. In addition to this the reversibility and the potential for irreplaceable loss of resources will also be assessed. In accordance with the requirements of the EIA regulations a Draft Environmental Management Programme (EMPr) will also be prepared.

Following submission of the IEIA, Specialist Studies and Draft EMPr to the registered I&APs for review and comment, the final submission will be made to the DMRE.

Public Participation Process:

The Public Participation Process (PPP) will be robust and continue to engage interested and affected parties (IAPs) throughout all phases of the project. As a result of the public notifications, a register will be opened and maintained which will record all contact details of persons whom have submitted written comments or responded to the notification and who have requested that they be registered as IAPs. All registered IAPs will be informed of the required process of involvement as defined by the EIA regulations. All objections and representations received from IAPs will be collected and considered in this application. Responses will be prepared and distributed to those IAPs who submitted comments and/or objections. These comments /objections and responses will be recorded in an Comments and Responses Report (CRR) for inclusion into the Scoping

	Report and EIA Report respectively. In addition, the registered IAPs will be given an opportunity to comment on all reports prepared to be submitted to the DMRE.
<p>Closure objectives</p> <p>Describe the closure objectives and the extent to which they will be aligned to the baseline environment</p>	<p>The EMPr shall include a closure and rehabilitation plan. The plan shall outline the closure objectives which are aimed at reinstating the landform, land use and vegetation units to an agreed land use or similar.</p> <p>Rehabilitate the land which was impacted by the activity and the related infrastructure to meet the closure objectives;</p> <ul style="list-style-type: none"> • Remove all infrastructure built in relation to the mining operations which will not be used by the landowners or a third party. Should it happen that the third party may want to use the infrastructure, appropriate arrangements should be made to ensure long term sustainable use of the infrastructure; • Follow a process of closure that is progressive and integrated into the short and longterm plans; • Assess the closure impacts proactively at regular intervals throughout project life; • Implement progressive rehabilitation measures, beginning during the construction phase wherever possible; • Monitor and manage water on site to minimise soil, surface/groundwater contamination; • Comply with national closure and rehabilitation regulatory requirements; • Form active partnerships with local communities to take management of the land after the project has ceased, where possible; and • Maintain and monitor all rehabilitated areas following re-vegetation. If monitoring shows that the objectives have been met, an application for closure can be made.
<p>Rehabilitation Plan</p> <p>Describe the scale and aerial extent of the prospecting or mining listed activities to be authorised, including the anticipated prospecting or mining area at the time of closure, and confirm that a site rehabilitation plan drawn to a suitable scale will be provided in the</p>	<p>A rehabilitation plan will be drawn to a suitable scale and provided in the EIAR.</p>

<p>draft EMPr to be submitted together with the draft EIR or Basic Assessment Report as the case may be.</p>	
<p>Rehabilitation Cost Describe how the rehabilitation cost will be determined and provide a preliminary estimate thereof</p>	<p>The rehabilitation cost will be calculated in detail with input from the various specialists assigned to the project and will be subject to annual review. Furthermore, the rehabilitation cost will also be based on implementation of the management measures to be included in the EMPr and revised accordingly for inclusion into the EIA. Rehabilitation costs will be calculated according to the DMRE rates.</p>
<p>Decommissioning Considering that rehabilitation must take place upon cessation of an activity, describe when each of activities applied for will be rehabilitated in terms of either the cessation of the individual activity or the cessation of the overall prospecting/exploration or mining/production activity.</p>	<p>Decommissioning and closure will be described in detail in the EMPr.</p>

Signed by:JOHN VAN WYK
Signed at:2024-03-26 14:47:37 +02:00
Reason:Witnessing JOHN VAN WYK

JOHN VAN WYK

Signature of the applicant / Signature on behalf of the applicant:

Harmony Gold Mining Company Limited

Name of company (if applicable):

Date:

APPENDIX 1A
DECLARATION OF THE EAP

I, Vukosi Mabunda, declare that –

General declaration:

- I act as the independent environmental practitioner in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting environmental impact assessments, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I will take into account, to the extent possible, the matters listed in regulation 8 of the Regulations when preparing the application and any report relating to the application;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- I will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;
- I will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the competent authority in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the competent authority may be attached to the report without further amendment to the report;
- I will keep a register of all interested and affected parties that participated in a public participation process; and
- I will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not
- all the particulars furnished by me in this form are true and correct;
- will perform all other obligations as expected from an environmental assessment practitioner in terms of the Regulations; and

- I realise that a false declaration is an offence in terms of regulation 71 of the Regulations and is punishable in terms of section 24F of the Act.

Disclosure of Vested Interest (delete whichever is not applicable)

- I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity proceeding other than remuneration for work performed in terms of the Regulations;
- ~~I have a vested interest in the proposed activity proceeding, such vested interest being:~~



Signature of the environmental assessment practitioner:

Environmental Impact Management Services (Pty) Ltd

Name of company:

10 January 2024

Date:

Appendix 1B - CV

CURRICULUM VITAE

Name:	Mr. Vukosi Glen Mabunda
Nationality:	South African
Date of Birth:	08 July 1994
Profession:	Environmental Assessment Practitioner and GIS Specialist
Professional Qualification/ Training:	Master of Science in Geography, University of Johannesburg, 2021
	BSc Honours: Geography, University of Johannesburg, 2017
	BSc: Life & Environmental Sciences, University of Johannesburg, 2016
	ISO 14001:2015 - Environmental Management Systems (EMS), Alison, 2022
	ISO 9001:2015 QMS Execution and Auditing Techniques, Alison, 2022
	Introductory EIA Report Writing, IAIA-SA, 2020
Professional Registrations:	Registered Professional Natural Scientist (SACNSP- #134178) – Environmental Sciences
	Registered Professional Natural Scientist (SACNSP- #134178) – Geospatial Sciences
	Registered Environmental Assessment Practitioner (EAPASA- #2019/867)
Professional Memberships:	International Association for Impact Assessment (SA) - Membership Number: 6985
	Geo-Information Society of South Africa - Membership Number: HSXC-6048
	Society of South African Geographers - Membership Number: 36/21
	Geo-Information Society of South Africa (GISSA) - Membership Number: HSXC-6048
Current Employer:	Environmental Impact Management Services (Pty) Ltd

KEY EXPERIENCE

Vukosi Mabunda is a current Geographic Information Systems (GIS) Specialist and Environmental Assessment Practitioner with 6 years' working experience. He is one of the few dual registered professionals with the South African Council for Natural Scientific Professions (SACNASP) as a Professional Geospatial Scientist and Professional Environmental Scientist. He is also a registered Environmental Assessment Practitioner (EAP) with the Environmental Assessment Practitioners Association of South Africa (EAPASA). Vukosi has dual professional background in Geographic and Environmental Sciences having academic qualifications which focused on these disciplines as well as relevant work experience. Vukosi has experience in various environmental assessment projects ranging from Environmental Screening, Basic Assessments, Section 102 Amendments and Scoping & Environmental Impact Assessments processes. In addition, Vukosi has undertaken Water Use Authorisations applications through both the General Authorisation and Water Use Authorisation processes.



	<p>iv. ECO Projects:</p> <ul style="list-style-type: none">• Provision of Environmental Compliance Monitoring Services for the Eskom Normandie-Kemp 88kV Powerline Project, Mpumalanga Province.• Provision of Environmental Compliance Monitoring Services for Transnet in and around the Port of Saldanha, Saldanha Bay Municipality.• Development of COEGA Development Corporation Phase 1 of the Wild Coast Special Economic Zone, Eastern Cape Province.• Provision of Environmental Compliance Monitoring Services for the City of Ekurhuleni Human Settlements Vosloorus High Density Housing Development Project, Gauteng Province. <p>v. Environmental Screening/Sensitivity Assessments & NEMA Queries:</p> <ul style="list-style-type: none">• Detailed Environmental Screening for the Proposed Balwin Greater Thaba Eco Village, Gauteng Province.• Environmental Screening Reports for various sites under the Rapid Land Release Programme: Packages A – F, Gauteng Province.• Environmental Screening Reports for the Proposed Upgrading of Informal Settlements Programme in West Rand and Sedibeng Municipality, Gauteng Province.• Environmental Screening Reports for the Proposed Upgrade of Internal Roads Northern Areas (Mabopane and Garankuwa), Gauteng Province.• NEMA Query for the Proposed Upgrade of R61 Baziya Community Road as Part of the SANRAL R61 Road Upgrade Project, Eastern Cape Province.• NEMA Query for the Proposed Rhodesfield Mixed Land Use Development, Gauteng Province. <p>vi. GIS Projects and Tasks:</p> <ul style="list-style-type: none">• City of Ekurhuleni Land Use Survey, Gauteng Province.• Locality, Sensitivity and Master Layout Mappings, all projects above (excluding ECO) and the following:<ul style="list-style-type: none">○ Proposed Extension of NECSA Pipe Storage Facility○ Eskom Nuwekloof and Witzenberg Battery Storage Projects○ Proposed Foskor-Merensky 400kV Power Line Project○ Blyde River Canyon Universal Access EMPr Project○ Mangaung Metropolitan Municipality Integrated Public Transport Network○ Moloto Road EIA - SANRAL R573 (K139) project○ The Proposed SANRAL PWV 2 Project
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LANGUAGE CAPABILITY

Language	Speak	Read	Write
English	Excellent	Excellent	Excellent
XiTsonga	Excellent	Fair	Fair
IsiZulu	Good	Fair	Fair

DECLARATION

I confirm that the above information contained in the CV is an accurate description of my experience and qualifications at the time of signature.



Signature of Staff Member

11 January 2024

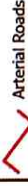
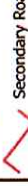

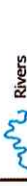

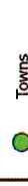

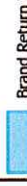





Date

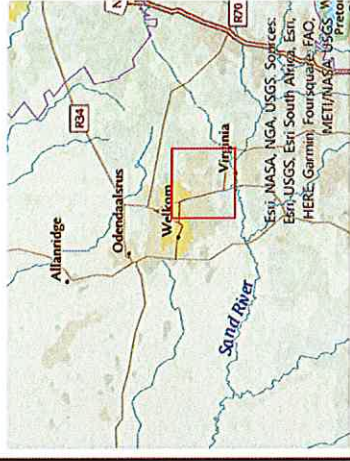
Appendix 2 - Map

Locality Map

1599 Harmony Brand A TSF EIA and WULA

Legend

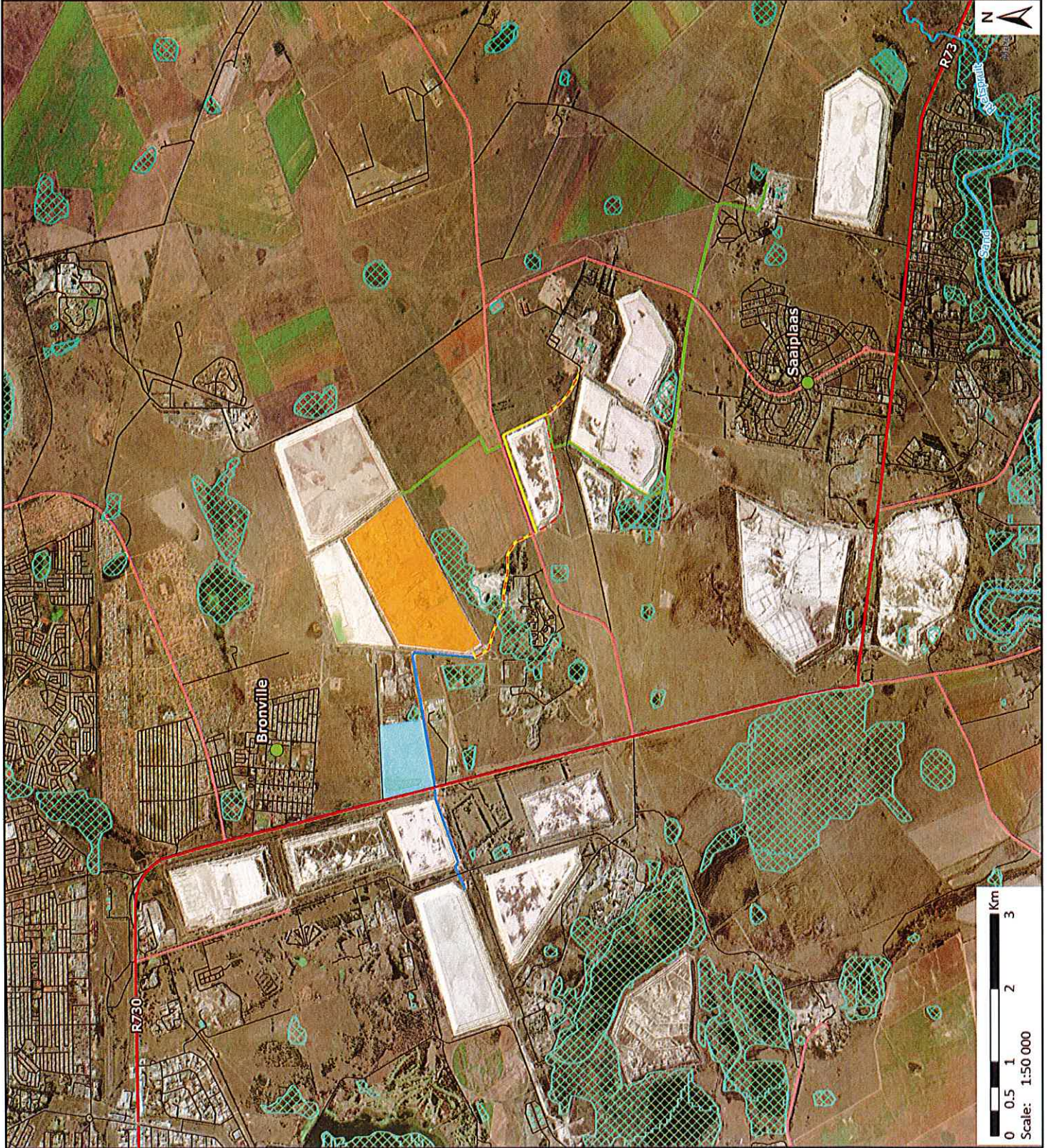
-  Arterial Roads
-  Secondary Roads
-  Other Roads
-  Rivers
-  NFEPA Wetlands
-  Towns
-  Brand A TSF
-  Brand Return Water Dam
-  Brand A Deposition lines
-  Central to Brand A
-  One Plant to Brand A
-  Saaiplaas to Brand A - Alternative 1
-  Saaiplaas to Brand A - Alternative 2



Data Sources:

CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1599_Locality

Date: 2023/10/26
 EIMS Ref: 1599
 Compiled: JW
 Reviewed: JP
 Approved: LW

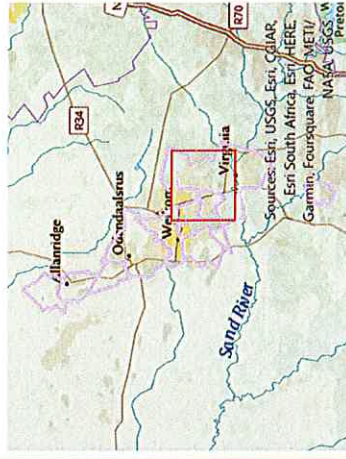


Locality Map

1599 Harmony Brand A TSF EIA and WULA

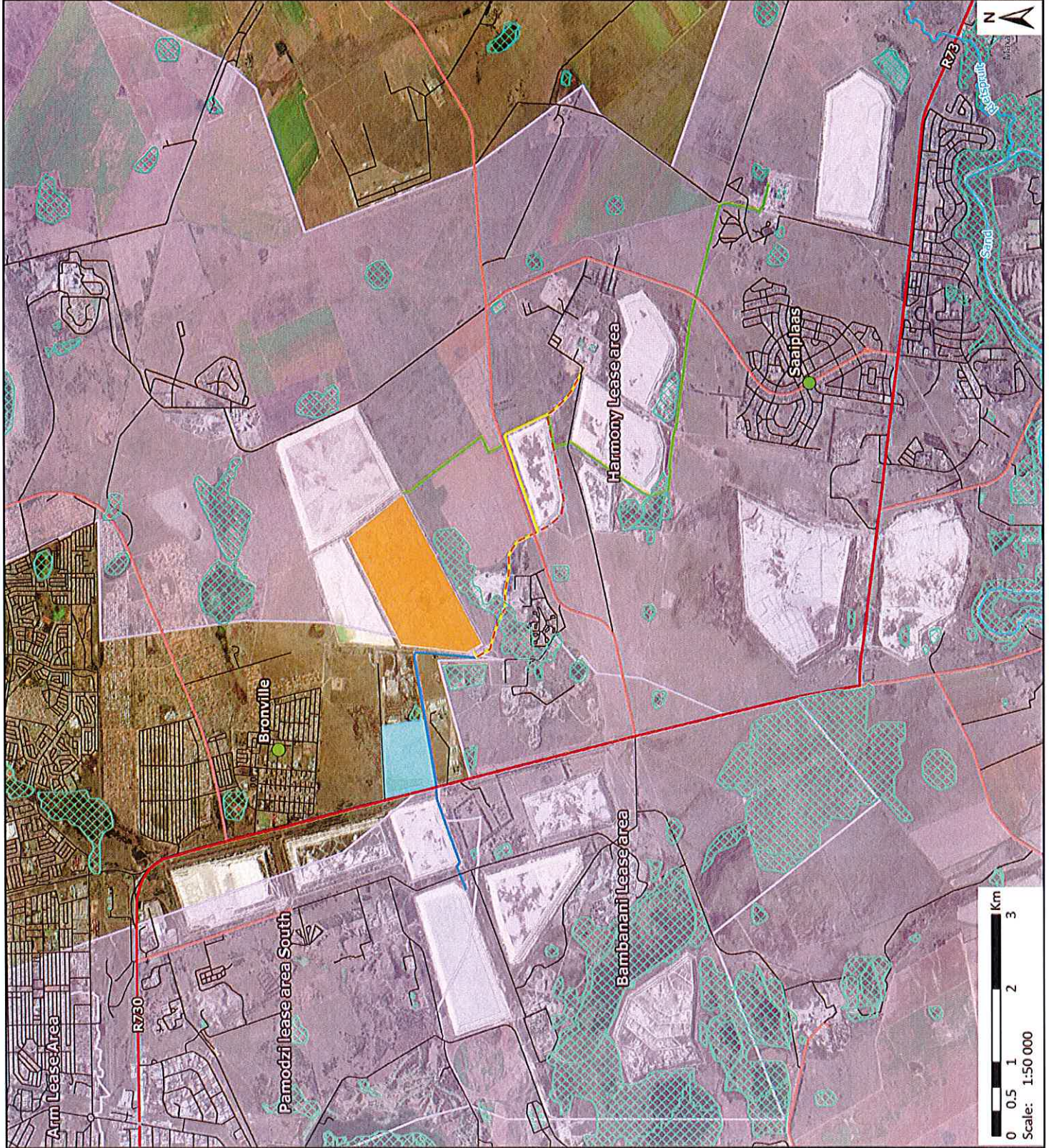
Legend

- Arterial Roads
- Secondary Roads
- Other Roads
- Rivers
- NFEPA Wetlands
- Towns
- Mining Right Boundary
- Brand A TSF
- Brand Return Water Dam
- Brand A Deposition lines
- Central to Brand A
- One Plant to Brand A
- Saaiplaas to Brand A - Alternative 1
- Saaiplaas to Brand A - Alternative 2



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1599_Locality

Date: 2023/10/26
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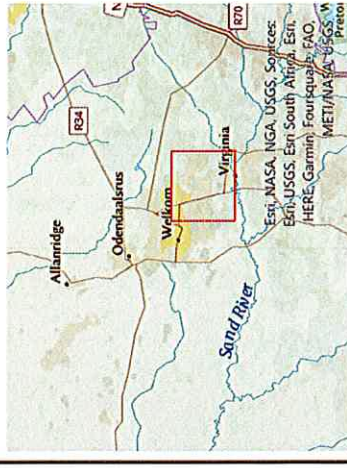


Properties Map

1599 Harmony Brand A TSF EIA and WULA

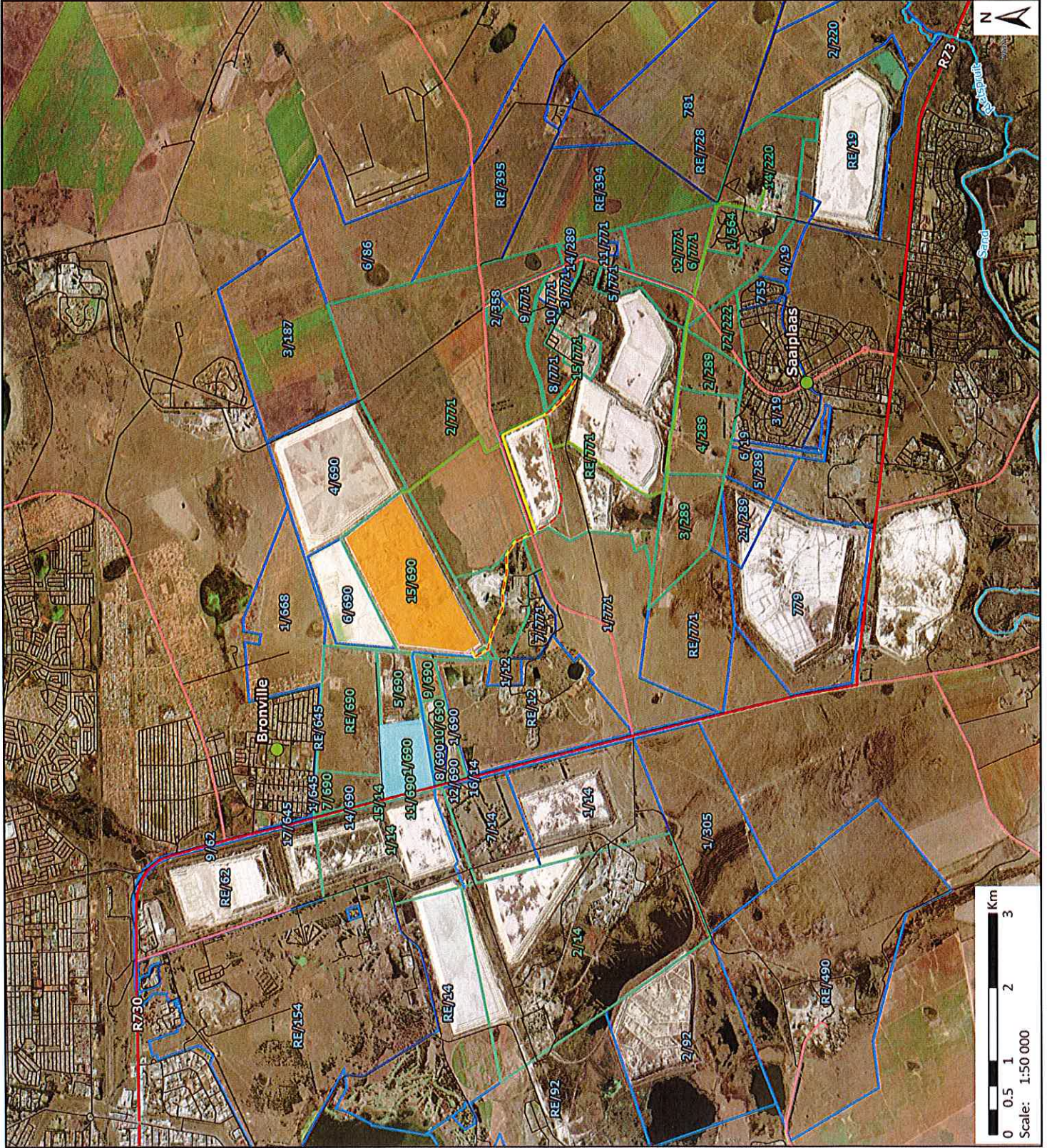
Legend

- Arterial Roads
- Secondary Roads
- Other Roads
- Rivers
- Towns
- Brand A TSF
- Brand Return Water Dam
- Brand A Deposition lines**
- Central to Brand A
- One Plant to Brand A
- Saaiplaas to Brand A - Alternative 1
- Saaiplaas to Brand A - Alternative 2
- Directly Affected Farm Portions
- Adjacent Farm Portions



Data Sources:
 CSG; ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1599_Properties

Date: 2023/10/13
 EIMS Ref: 1599
 Compiled: JW
 Reviewed: JP
 Approved: LW



Appendix 3 – Copies of approvals – NOT APPLICABLE

Appendix 4 – Public Participation Information

9 November 2023

Our ref: 1599/JP/jw

To whom it may concern

Dear Sir or Madam:

NOTIFICATION REGARDING OPPORTUNITY TO PARTICIPATE IN ENVIRONMENTAL AUTHORISATION APPLICATION PROCESS FOR THE PROPOSED HARMONY BRAND A TAILINGS STORAGE FACILITY PROJECT, IN THE MATJHABENG LOCAL MUNICIPALITY, FREE STATE PROVINCE, SOUTH AFRICA.

Harmony Gold Mining Company Limited (Harmony) (hereafter referred to as the applicant) has appointed Environmental Impact Management Services (Pty) Ltd (EIMS) as the Environmental Assessment Practitioner (EAP) to assist with undertaking the required authorisation processes (including the statutory public participation), and to compile and submit the required documentation in support of application for:

- Environmental Authorisation (EA) in accordance with the NEMA- Listed activity/ies:
 - GNR983 Listing Notice 1, Activities 10, 12, 21D, 21F, 31, and 46.
 - GNR984 Listing Notice 2, Activity 6.
 - GNR985 Listing Notice 3, Activities 12, and 14.
- Waste Management Licence in accordance with the requirements of the National Environmental Management: Waste Act- NEM:WA (Act 59 of 2008) - Listed activity/ies:
 - GNR921 Categories A: 14 and B: 7.
- Water Use Licence (WUL) in accordance with the National Water Act – NWA (Act 36 of 1998) - Listed activity/ies:
 - Section 21 (c), (g) and (i).

Additional listed activities and/or water uses may be identified during the process.

Harmony owns and operates several Gold Mines and Plants in the Welkom region in the Free State. Harmony currently deposits tailings onto the Free State South (FSS) 2 Tailings Storage Facility (TSF), St. Helena 4 TSF, St. Helena 123 TSF, Dam 23 TSF, Brand D TSF and Target 1&2 TSF. The current planned Life of Mine of the Free State Operations exceed the available deposition capacity of these TSFs and Harmony is undertaking a feasibility assessment to redeposit slurry on the footprint of Brand A TSF.

The applicant is planning to redeposit slurry on the footprint of Brand A TSF which has largely been reclaimed to date. Construction of 3 new residue deposition pipelines is proposed, each of which will have a NB diameter of more than 360mm with a peak throughput of more than 120 ℓ/s. The pipelines will be flanged steel pipelines and installed above-ground on pre-cast concrete plinths and a 3.5m wide access road, adjacent to the pipelines, will be cleared/graded to provide access for construction, maintenance and inspections.

The proposed project is located on farm portions Harmony 222 (72), Klippan 14 (1), Klippan 14 (2), Klippan 14 (15), La Riviera 289 (2), La Riviera 289 (3), La Riviera 289 (4)/RE, Rustgevonden 564 (1), Saaiplaas 690 (0), Saaiplaas 690 (1),

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W www.eims.co.za | E mail@eims.co.za | Co Reg 1992/005927/07 | VAT 489 013 9027

Directors: L Whitlow, A Smith.

Saaiplaas 690 (5), Saaiplaas 690 (7), Saaiplaas 690 (9), Saaiplaas 690 (10), Saaiplaas 690 (11), Saaiplaas 690 (15), Saaiplaas 771 (0), Saaiplaas 771 (2), Saaiplaas 771 (6), Saaiplaas 771 (12), Saaiplaas 771 (15), and Vaalkranz 220 (14), Matjhabeng Local Municipality, Free State Province. The site is approximately 2.5km Southeast of Bronville. The centre point of the site is 28° 0'53.81"S, 26°50'18.34"E.

EIMS will be following the procedures defined in the Environmental Impact Assessment (EIA) Regulations (GRN982 of 2014, as amended) for undertaking a Scoping and Environmental Impact Assessment (EIA) process. In accordance with Chapter 6 of the EIA Regulations, a public participation process will be undertaken. You are hereby invited to register and comment on the proposed project and application/s. In order to ensure that you are identified and registered as an I&AP and that your comments are captured, please submit your name, contact details, the reason for your interest or any, in writing or telephonically, to EIMS. Please note that only registered I&AP's will be informed of future project information and opportunities for participation.

By registering as an interested and affected party you consent to the collection and processing of your personal information as per the EIMS Privacy Notice available at www.eims.co.za/public-participation. In order to avoid missing out on opportunities for public participation please submit I&AP registrations, or any queries, comments, or concerns with regards to this application, as soon as possible to EIMS at:

Contact Person: Jolene Webber

EIMS Reference Number: 1599

Postal Address: P.O. Box 2083; Pinegowrie; 2123

Telephone: (011) 789 7170/ Fax: (086) 571 9047

E-mail: brandatsf@eims.co.za

Please include the project reference number 1599 in all correspondence.

Please feel free to contact the undersigned if you have any queries or concerns.

Kind Regards,

EIMS Public Participation Team

Ho eo e mo amang

Mohlomphehi kapa Mofumahadi ya Ratehang:

TSEBISO E MABAPI LE MONYETLA WA HO NKA KAROLO MOSEBETSING WA TUMELLO YA TIKOLOHO, TSHEBETSO YA KOPO E SISINTSWENG YA LETSHWAO LA HARMONY LA SEBAKA SA POLOKELO YA MESALLA HOBA LIKGWERE-KGWEREBAKENG SA MORERO O RERILWENG WA PROJEKE, MOTSENG WA MATJHABENG POOFENSENG YA FREE STATE, AFRIKA BORWA.

Harmony Gold Mining Company Limited (Harmony) (eo hamorao e tla bitswa mokopi) e kgethile Environmental Impact Management Services (Pty) Ltd (EIMS) jwalo ka Setsibi sa Tekolo ya Tikolo (EAP) ho thusa ho etsa ditshebetso tse hlokehang tsa tumello (ho kenyeletswa le ho nka karolo ha sechaba ka molao), ho bokella le ho fana ka ditokomane tse hlokehang ho tshehetsa kopo ya:

- Tumello ya Tikoloho (EA) ho ya ka mosebetsi wa NEMA- Mo/mosebetsi e thathamisitsweng:
 - GNR983 Tsebiso ya Lethathamo 1, Mosebetsi 10, 12, 21D, 21F, 31, le 46.
 - GNR984 Tsebiso ya Lethathamo 2, Tshebetso 6.
 - GNR985 Tsebiso ya Lethathamo 3, Mosebetsi 12, le 14.
- Laesense ya Tsamaiso ya Ditshila ho latela ditlhoko tsa Molao wa Naha wa Tsamaiso ya Tikoloho: Molao wa Ditshila-NEM:WA (Molao wa 59 wa 2008) - Mo/mosebetsi e thathamisitsweng:
 - GNR921 Dihlopha A: 14 le B: 7.
- Laesense ya Tshebediso ya Metsi (WUL) ho ya ka Molao wa Naha wa Metsi – NWA (Molao wa 36 wa 1998) - Mo/mosebetsi o thathamisitsweng:
 - Karolo ya 21 (c), (g) le (i).

Mosebetsi e meng e thathamisitsweng le/hoba tshebediso ya metsi e tla bonahala le ho khethollwa nakong ea tshebetso.

Harmony e laola le ho tsamaisa Merafo ya Kgauta e mengata le Dipolanthe sebakeng sa Welkom e sebakeng sa Free State. Harmony hajoale e beha mesalla ho Free State South (FSS) 2 Sebaka sa Polokelo ya Mesalla [Tailings Storage Facility (TSF)], St. Helena 4 TSF, St. Helana 123 TSF, Dam 23 TSF, Brand D TSF le Target 1&2 TSF. Bophelo ba hajwale bo rerilweng ba Meepo ya Tshebetso ya Free State bo feta bokgoni bo fumanehang ba ho beha di-TSF tsena mme Harmony e etsa tlhahlobo ya monyetla wa ho kgutlisa qhefeqhefe mohatong wa Brand A TSF.

Mokopi o rerile ho khutlisa qhefeqhefe mohatong wa Brand A TSF e seng e khutlisitswe haholo ho fihlela jwale. Kaho ya diphaephe tse ncha tse 3 tse setseng di hlahiswa, e nngoe le e nngoe ya tsona e tla ba le bophara ba NB bo fetang 360mm ka phallo e phahameng ya ho feta 120 ℓ/s. Diphaephe e tla ba diphaephe tsa tshepe tse nang le marako mme di kenngwe ka hodimo ho mobu hodima diphaephe tsa konkreite tsa pele ho bapa le tsela e pharalletseng ya bohobo ba

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Batsamaisi: L Whitlow, A Smith.

3.5m, haufi lediphaephe, ho tla hlakolwa/batalatswa bakeng sa ho fana ka phihlello bakeng sa kaho, tlhokomelo le tlhahlobo.

Projeke e rerilweng e dikarolong tsa polasing Harmony 222 (72), Klippan 14 (1), Klippan 14 (2), Klippan 14 (15), La Riviera 289 (2), La Riviera 289 (3), La Riviera 289 (4)/RE, Rustgevonden 564 (1), Saaiplaas 690 (0), Saaiplaas 690 (1), Saaiplaas 690 (5), Saaiplaas 690 (7), Saaiplaas 690 (9), Saaiplaas 690 (10), Saaiplaas 690 (11), Saaiplaas 690 (15), Saaiplaas 771 (0), Saaiplaas 771 (2), Saaiplaas 771 (6), Saaiplaas 771 (12), Saaiplaas 771 (15), le Vaalkranz 220 (14), Masepaleng wa Lehae wa Matjhabeng, Profinseng ya Free State. Sebaka sena se ho e ka bang 2.5km ka borwa-bochabela ho Bronville. Bohareng ba sebaka ke 28° 0'53.81"S, 26°50'18.34"E.

EIMS e tla latela mekgwatsamaiso e hlahositsweng Melaong ya Tekolo ya Kameho ya Tikoloho (EIA) Melawana (GRN982 ya 2014, jwalo ka ha e fetotswe) bakeng sa ho etsa Tshebetso ya Tekolo ya Kameho ya Tikoloho le Kameho ya Tikoloho (EIA). Ho ya ka Kgaolo 6 ya Melawana ya EIA, ho tla etswa tshebetso ya ho nka karolo sechabeng. Reho mema mona ho ingodisa le ho fana ka maikutlo mabapi le projeke e rerilweng le di/kopo. Ho netefatsa hore o tsejwa le ho ngodiswa o le I&AP le hore ditshwaelo tsa hao di a tshwarwa, ka kopo fana ka lebitso la hao, dintlha tsa ho iteanya le wena, lebaka la thahasello ya hao kapa le ha e le efe, ka ho ngola kapa ka mohala, ho EIMS. Ka kopo hlokomela hore ke I&AP feela e tla tsebiswa ka lesedi la projeke le menyetla ya ho nka karolo nakong e tlang.

Ka ho ingodisa o le mokga o nang le thahasello le o amehileng o dumela ho bokella le ho sebedisa lesedi la hao la botho ho ya ka Tsebiswa ya Lekunutu ya EIMS e fumanehang ho www.eims.co.za/public-participation. E le hore o se ke wa lahlehelwa ke menyetla ya ho nka karolo sechabeng, ka kopo romela ngodiso ya I&AP, kapa dipotso dife kapa dife, maikutlo, kapa dingongoreho malebana le kopo ena kapele kamoo ho ka kgonehang ho EIMS ho:

Motho eo ho ka ikopangwang le yena: Jolene Webber

Nomoro ya Referense ya EIMS: 1599

Aterese ya Poso: P.O. Box 2083; Pinegowrie; 2123

Mohala: (011) 789 7170/ Fax: (086) 571 9047

Imeile: brandatsf@eims.co.za

Ka kopo kenya nomoro ya referense ya projeke ya 1599 ho mangolo ohle.

Ka kopo ikutlwe u lokolohile ho ikopanya le ea saenneng ka tlase haeba u na le dipotso kapa dingongoreho.

Ditumediso tse Mofuthu,

Sehlopha sa ho nka Karolo Sechabeng sa EIMS

9 November 2023

Ons verw: 1599/JP/jw

Vir wie dit aangaan

Geagte meneer of mevrou:

KENNISGEWING RAKENDE GELEENTHEID OM DEEL TE NEEM AAN AANSOEKPROSES VIR OMGEWINGSMAGTIGING VIR DIE VOORGESTELDE HARMONY BRAND A MYNHOOP-PROJEK, IN DIE MATJHABENG PLAASLIKE MUNISIPALITEIT, VRYSTAAT PROVINSIE, SUID-AFRIKA.

Harmony Gold Mining Company Limited (Harmony) (hierna die aansoeker genoem) het Environmental Impact Management Services (Pty) Ltd (EIMS) as die Omgewingsassesseringspraktisyn (EAP) aangestel om te help met die onderneem van die vereiste magtigingsprosesse (insluitend die wetelike openbare deelname), en om die vereiste dokumentasie saam te stel en in te dien ter ondersteuning van die aansoek om:

- Omgewingsmagtiging (EA) in ooreenstemming met die NEMA- genoteerde aktiwiteit/e:
 - GNR983 Noteringskennisgewing 1, Aktiwiteite 10, 12, 21D, 21F, 31 en 46.
 - GNR984 Noteringskennisgewing 2, Aktiwiteit 6.
 - GNR985 Noteringskennisgewing 3, Aktiwiteite 12 en 14.
- Afvalbestuurslisensie in ooreenstemming met die vereistes van die Wet op Nasionale Omgewingsbestuur: Afval-NEM:WA (Wet 59 van 2008) - Genoteerde aktiwiteit/e:
 - GNR921 Kategorieë A: 14 en B: 7.
- Watergebruikslisensie (WUL) ingevolge die Nasionale Waterwet – NWA (Wet 36 van 1998) - Gelyste aktiwiteit/e:
 - Artikel 21 (c), (g) en (i).

Bykomende gelyste aktiwiteite en/of watergebruike kan tydens die proses geïdentifiseer word.

Harmony besit en bedryf verskeie Goudmyne en -aanlegte in die Welkom-streek in die Vrystaat. Harmony deponeer tans sterte op die Vrystaat-Suid (FSS) 2 mynhoop (TSF), St. Helena 4 TSF, St. Helana 123 TSF, Dam 23 TSF, Brand D TSF en Target 1&2 TSF. Die huidige beplande Lewe van Myn van die Vrystaat bedrywighede oorskry die beskikbare afsettingskapasiteit van hierdie TSF's en Harmony onderneem 'n uitvoerbaarheidsassessering om misleiding op die voetspoor van Handelsmerk A TSF te herdeponeer.

Die aansoeker beplan om die voetspoor van Brand A TSF, wat tot dusver grootliks herwin is, te herdeponeer. Konstruksie van 3 nuwe residu-afsettingspypleidings word voorgestel, wat elk 'n NB-deursnee van meer as 360 mm sal hê met 'n piekdeurset van meer as 120 l/s. Die pypleidings sal geflenterde staalpypleidings wees en bogronds geïnstalleer word op voorafgegote betonpunte en 'n toegangspad van 3,5 m breed, aangrensend aan die pypleidings, sal skoongemaak/gegradeer word om toegang te bied vir konstruksie, instandhouding en inspeksies.

Die voorgestelde projek is geleë op plaasgedeeltes Harmony 222 (72), Klippan 14 (1), Klippan 14 (2), Klippan 14 (15), La Riviera 289 (2), La Riviera 289 (3), La Riviera 289 (4)/RE, Rustgevonden 564 (1), Saaiplaas 690 (0), Saaiplaas 690 (1), Saaiplaas 690 (5), Saaiplaas 690 (7), Saaiplaas 690 (9), Saaiplaas 690 (10), Saaiplaas 690 (11), Saaiplaas 690 (15), Saaiplaas

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Directors: L Whitlow, A Smith.

771 (0), Saaiplaas 771 (2), Saaiplaas 771 (6), Saaiplaas 771 (12), Saaiplaas 771 (15), en Vaalkranz 220 (14), Matjhabeng Plaaslike Munisipaliteit, Vrystaat Provinsie, ongeveer 2,5 km suid-oos van Bronville. Die middelpunt van die projek gebied is 28° 0'53.81"S, 26°50'18.34"E.

EIMS sal die prosedures volg soos omskryf in die Omgewingsimpakstudie (EIA) Regulasies (GRN982 van 2014, soos gewysig) vir die onderneem van 'n Omvangbepaling en Omgewingsimpakstudie (EIA) proses. Ingevolge Hoofstuk 6 van die EIA-regulasies sal 'n openbaredeelnameproses onderneem word. U word hiermee uitgenooi om te registreer en kommentaar te lewer op die voorgestelde projek en aansoek/s. Om te verseker dat u as 'n I&AP geïdentifiseer en geregistreer is en dat u kommentaar vasgelê word, dien asseblief u naam, kontakbesonderhede, die rede vir u belangstelling of enige, skriftelik of telefonies by EIMS in. Let daarop dat slegs geregistreerde I&AP's in kennis gestel sal word van toekomstige projekinligting en geleenthede vir deelname.

Deur as 'n belanghebbende en geaffekteerde party te registreer, stem jy in tot die versameling en verwerking van jou persoonlike inligting volgens die EIMS-privaatheidskennisgewing wat by www.eims.co.za/public-participation beskikbaar is. Om te verhoed dat geleenthede vir openbare deelname misgeloop word, dien asseblief I &AP-registrasies, of enige navrae, kommentaar of bekommernisse met betrekking tot hierdie aansoek, so gou as moontlik by EIMS in by:

Kontak Persoon: Jolene Webber

EIMS-verwysingsnommer: 1599

Posadres: P.O. Box 2083; Pinetown; 2123

Telefoon: (011) 789 7170/ Faks: (086) 571 9047

E-pos: brandatsf@eims.co.za

Sluit asseblief die projekverwysingsnommer 1599 in alle korrespondensie in.

Kontak gerus die ondergetekende indien u enige navrae of bekommernisse het.

Vriendelike groete,

EIMS Openbare deelname Span

Jolene Webber

From: 1599 Harmony Brand A TSF EIA <brandatsf@eims.co.za>
Sent: Thursday, 09 November 2023 11:00
To: 1599 Harmony Brand A TSF EIA
Subject: Notification: 1599 Harmony Brand A TSF
Attachments: 1599_InitialNotification.pdf

Bcc: John Von Mayer; A.Mangengeza@sanbi.org.za; abourne@conservation.org; advocacy@birdlife.or.za; Melissa.Lewis@birdlife.org.za; afgri@afgri.co.za; afriforum@afriforum.co.za; navrae@afriforum.co.za; agibbs@cer.org.za; agrisa@agrisa.co.za; andrew.deblocq@birdlife.org.za; Aphelele.mbizo@matjhabeng.co.za; avena@groundwork.org.za; azwihangwisi.mulaudzi@dmre.gov.za; bartpaul@gmail.com; BCAdmin@dffe.gov.za; bethel@zipplink.co.za; info@vslandbou.co.za; Betty.Notsi@matjhabeng.co.za; bobby@groundwork.org.za; Cedrick.Fhedzisani@dmre.gov.za; centralp@dwa.gov.za; ceo@projectafrica.com; charles.hlebela@nersa.org.za; christo@agrisa.co.za; cindy.cloete@wessa.co.za; CKWAZA@NUM.ORG.ZA; collinsn@dtea.fs.gov.za; collinsn@dsea.gov.za; communications@bloemwater.co.za; communityaffairs@petrosa.co.za; conservation@birdlife.org.za; cro@freetrans.gov.za; myburgha@freetrans.gov.za; deon.dejager@afriforum.co.za; dewald@lejwe.co.za; DGOoffice@dalrrd.gov.za; dlight@telkom.co.za; doreens@dalrrd.gov.za; Dreyville@gmail.com; ajjkruger@yebo.co.za; dumat@nra.co.za; EIAAdmin@dffe.gov.za; eleonore@tarawildlifesa.com; energy@birdlife.org.za; ernst.retief@birdlife.org.za; erstatutory@nra.co.za; ewt@ewt.org.za; Executivemayor@matjhabeng.co.za; FMokgohloa@dffe.gov.za; gernie@vslandbou.co.za; gknott@cer.org.za; groblerw@dws.gov.za; harrietd@ewt.org.za; harriet@conserveglobal.org; hod@fscogta.gov.za; hodoffice@fsworks.gov.za

Dear Interested and Affected Party,

Kindly see the attached notification regarding opportunity to participate in the Environmental Authorisation application process for the proposed Harmony Brand A Tailings Storage Facility Project, in the Matjhabeng Local Municipality, Free State Province, South Africa.

KIND REGARDS
JOLENE WEBBER



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Jolene Webber

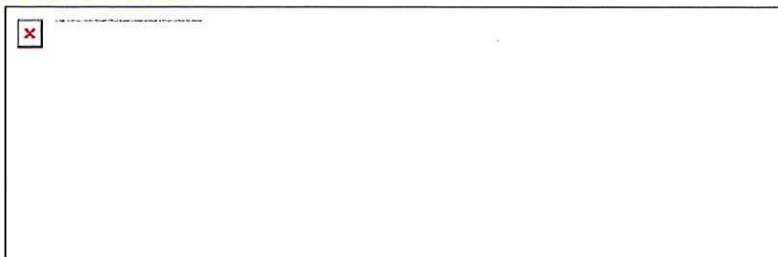
From: 1599 Harmony Brand A TSF EIA <brandatsf@eims.co.za>
Sent: Thursday, 09 November 2023 11:04
To: 1599 Harmony Brand A TSF EIA
Subject: Notification: 1599 Harmony Brand A TSF
Attachments: 1599_InitialNotification.pdf

Bcc: John Von Mayer; hodofficemanager@daff.gov.za; hodofficemanager@dard.gov.za; christa.klinck.ck@gmail.com; Hunadi.Ndema@dalrrd.gov.za; I.nanni@sanbi.org.za; ianl@ewt.org.za; info@botanicalsociety.org.za; info@cer.org.za; info@destea.gov.za; info@lejwe.co.za; info@lejwelda.org.za; info@matjhabeng.co.za; info@nersa.org.za; info@petrosa.co.za; jacobm@cogta.gov.za; Jeffrey.madingani@transnet.net; jnalej@dwf.gov.za; jnalej@dws.gov.za; jnbadm@wessa.co.za; jnbadm@wessa.co.za; dbnadmin@wessa.co.za; joan@groundwork.org.za; johan@boshoffsmuts.co.za; john.geeringh@eskom.co.za; K.Nemutamvuni@sanbi.org.za; Kalipa.Kewuti@dmre.gov.za; Keitumetse.Moticoe@dalrrd.gov.za; khaya@lejwe.co.za; KhozaC@dot.gov.za; info@dot.gov.za; info@transport.gov.za; KhudugaM@dws.gov.za; KishC@ewt.org.za; KMatibe@environment.gov.za; KMatibe@dffe.gov.za; Kolobe.Ngwepe@dalrrd.gov.za; LDitshego@environment.gov.za; Livia@environment.gov.za; m.mokonoto@sanbi.org.za; makhohlasefuli@gmail.com; makoma@earthlife.org.za; malcolms@lantic.net; mamokete.mpatane@dmre.gov.za; enquiries.fs@dmre.gov.za; mamokete.mpatane@dmre.gov.za; enquiries.fs@dmre.gov.za; mandlal@cogta.gov.za; manelet@dard.gov.za; Manene.Mphikeleli@matjhabeng.co.za; maqekoane@freetrans.gov.za; marcus@afriforum.co.za; miette@pea.org.za; matjhabengratepayers@vodamail.co.za; matjhabengratepayers@vodamail.co.za; Matodzi.Ramboho@dmre.gov.za; mbatha.npz@sacr.fs.gov.za; mdakanep@dwa.gov.za; melissa.whitecross@birdlife.org.za; mesello@mweb.co.za; mjanse@geoscience.org.za

Dear Interested and Affected Party,

Kindly see the attached notification regarding opportunity to participate in the Environmental Authorisation application process for the proposed Harmony Brand A Tailings Storage Facility Project, in the Matjhabeng Local Municipality, Free State Province, South Africa.


KIND REGARDS
JOLENE WEBBER



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Randburg, 2194

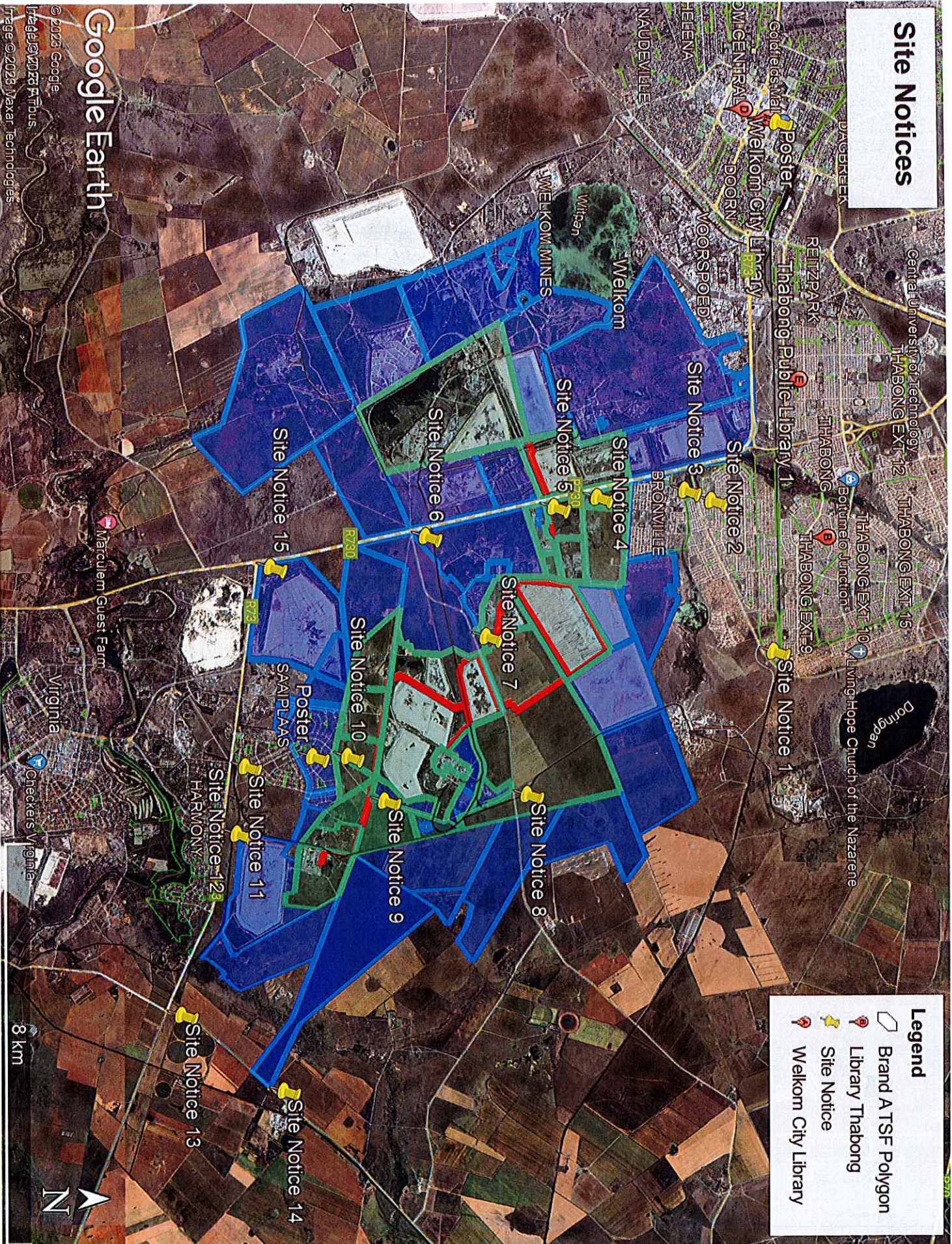
PO Box 2083, Pinetown, 2123,
ZA

Registered Mail List					
Full Tracking and Tracing					
Name: Environmental Impact Management Services (Pty) Ltd					
1599 Harmony Brand A TSF EIA and WULA					
					Affix Track and Trace custom copy
			Vaal Central Water - Virginia (Free State Region)	P.O. Box 518, Virginia, 9430	INSURED PARCEL PA 443 048 633 ZA A BOOK COPY
			National Department of Water and Sanitation – Free State	PO Box 528, BLOEMFONTEIN, 9300	INSURED PARCEL PA 443 048 593 ZA A BOOK COPY
Mr	Sebastiano	Buonadonna	Buonadonna Trust	P.O. Box 45, Hennenman, 9445	INSURED PARCEL PA 443 048 616 ZA A BOOK COPY
Ms	Maria Elizabeth Susanna	Coertze	Willow Valley Poultry Farm Pty Ltd	PO BOX 1131, Welkom, 9460	INSURED PARCEL PA 443 048 602 ZA A BOOK COPY
Mr	Jozua Francois Naude	Ferreira	D C Ferreira CC	PO BOX 115, HENNENMAN, HENNENMAN, FREE STATE, 9445	INSURED PARCEL PA 443 048 620 ZA A BOOK COPY
5					
Number of Letters Posted: 5		Signature of Accepting Officer 		Date Stamp 2023.11.09	



Phone number	Network	Status	ScheduledDate	SubmittedDate	StatusDate	SentData
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27684970503	Telkom Mobile	EXPIRED	11/9/2023 11:09:00 AM	11/9/2023 11:09:23 AM	11/9/2023 6:53:52 PM	Matjhabeng Local
27715975068	Vodacom	BLIST	11/9/2023 11:09:00 AM	11/9/2023 11:09:23 AM	11/9/2023 11:09:23 AM	Municipality, Free State
27716135688	Vodacom	EXPIRED	11/9/2023 11:09:00 AM	11/9/2023 11:09:23 AM	11/9/2023 6:53:52 PM	province. Harmony Gold
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27721961473	Vodacom	EXPIRED	11/9/2023 11:09:00 AM	11/9/2023 11:09:23 AM	11/9/2023 6:53:52 PM	has appointed EIMS to
27723037301	Vodacom	UNDELIV	11/9/2023 11:09:00 AM	11/9/2023 11:09:23 AM	11/9/2023 1:09:30 PM	undertake the
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27726074362	Vodacom	DELIVRD	11/9/2023 11:09:00 AM	11/9/2023 11:09:23 AM	11/9/2023 11:09:26 AM	If you are
27727102993	Vodacom	UNDELIV	11/9/2023 11:09:00 AM	11/9/2023 11:09:23 AM	11/9/2023 1:09:30 PM	interested/affected,
27727127186	Vodacom	DELIVRD	11/9/2023 11:09:00 AM	11/9/2023 11:09:23 AM	11/9/2023 11:09:31 AM	please contact Jolene
27727345805	Vodacom	DELIVRD	11/9/2023 11:09:00 AM	11/9/2023 11:09:23 AM	11/9/2023 11:09:25 AM	Webber; 0117897170;
27728585855	Vodacom	EXPIRED	11/9/2023 11:09:00 AM	11/9/2023 11:09:23 AM	11/9/2023 6:53:52 PM	brandatsf@eims.co.za.
27732314893	CELL C	DELIVRD	11/9/2023 11:09:00 AM	11/9/2023 11:09:24 AM	11/9/2023 11:09:25 AM	Visit
27732605173	MTN	DELIVRD	11/9/2023 11:09:00 AM	11/9/2023 11:09:23 AM	11/9/2023 11:09:25 AM	https://www.eims.co.za/
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27824851576	Vodacom	DELIVRD	11/9/2023 11:09:00 AM	11/9/2023 11:09:23 AM	11/9/2023 11:09:25 AM	
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27765842538	Vodacom	DELIVRD	11/9/2023 11:09:00 AM	11/9/2023 11:09:23 AM	11/9/2023 11:09:25 AM	

Site Notices



Legend

- Brand A TSF Polygon
- Library Thabong
- Site Notice
- Welkom City Library

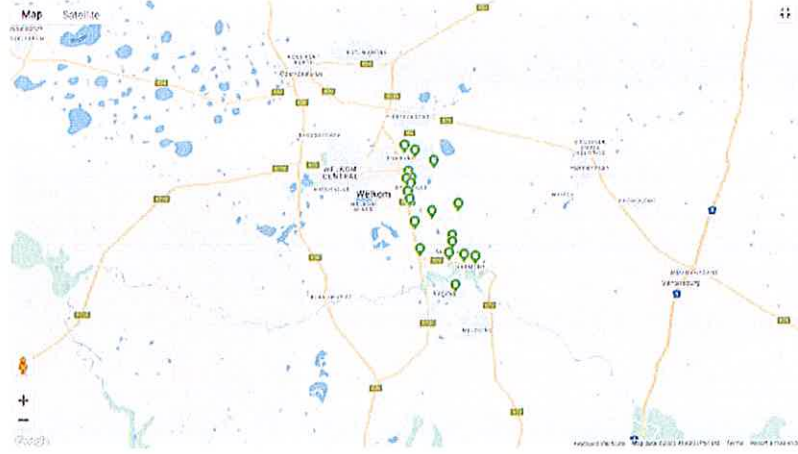
Google Earth

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 Imagery © 2023 Maxar Technologies
 Labels © 2023 Airbus

8 km



Locality Map:



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Site Notice 2 - (Thabong Library)



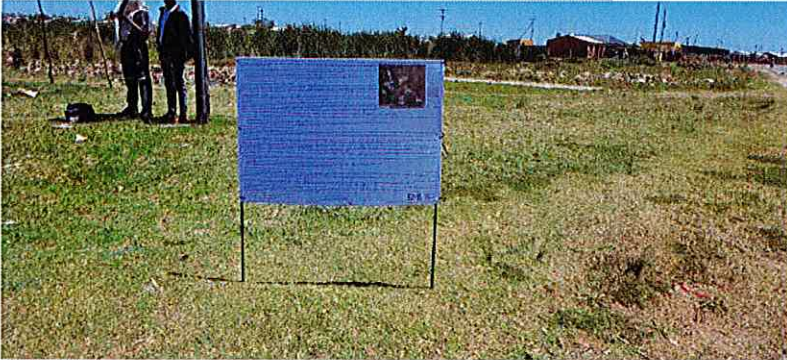
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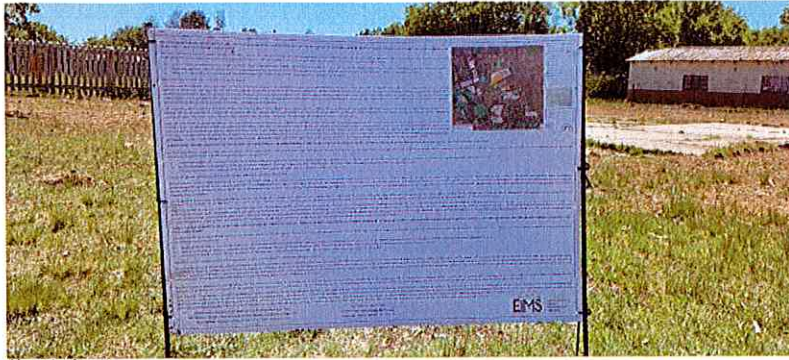
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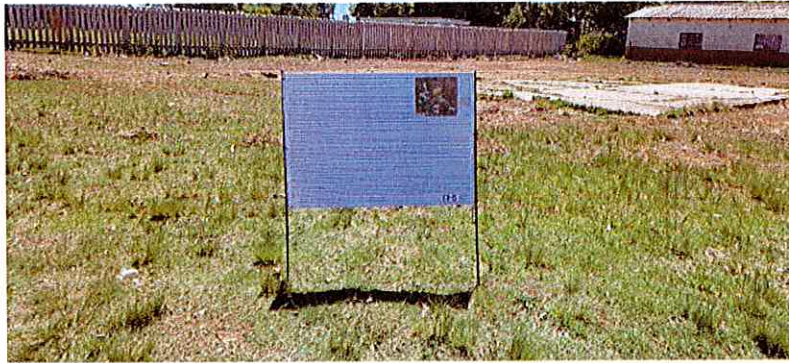


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Site Notice 5



Site Notice 5



Site Notice 5

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Site Notice 6

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Site Notice 8

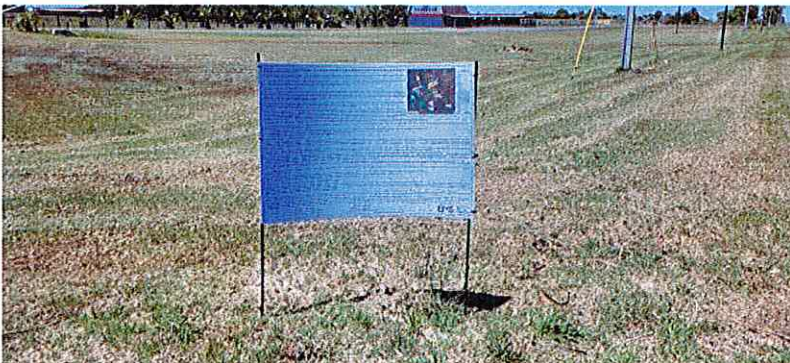


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Site Notice 9



Site Notice 9

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Site Notice 10

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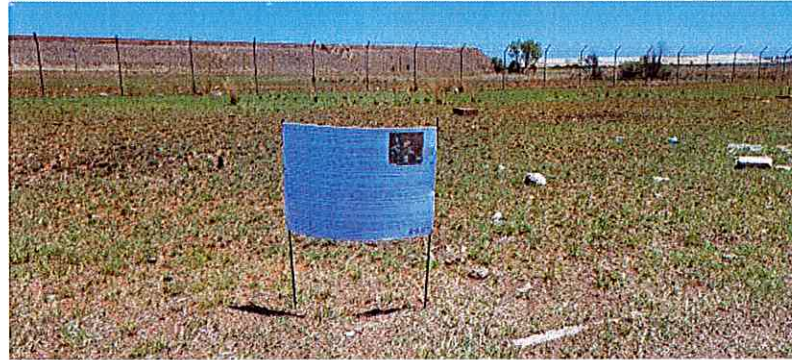


Site Notice 11



Site Notice 11

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Site Notice 12



Site Notice 12

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Site Notice 13

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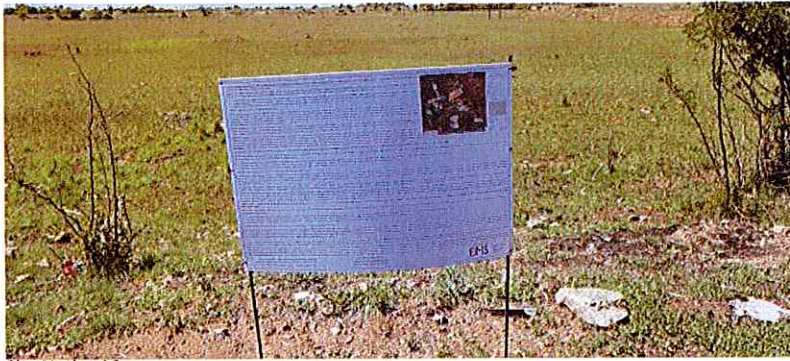


Site Notice 15



Site Notice 15

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Site Notice 16



Site Notice 16

Site Notice: 09/11/2023 13:08:19; GPS Coordinates: -28.077789, 26.892634



Site Notice 17



Site Notice 17

Site Notice: 09/11/2023 13:14:43; GPS Coordinates: -28.070333, 26.827097



Site Notice 19



Site Notice 19

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Site Notice 1 - Poster



Site Notice 1 - Poster

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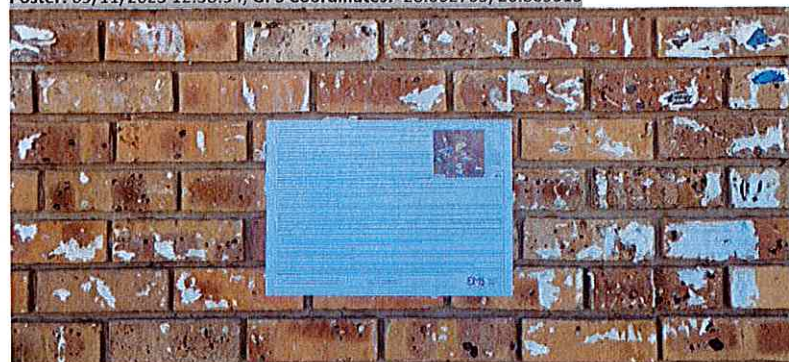


Site Notice 7 - Poster (Bronville Library)



Site Notice 7 - Poster (Bronville Library)

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Site Notice 14 - Poster (Supermarket)



Site Notice 14 - Poster (Supermarket)

Poster: 09/11/2023 13:09:59; GPS Coordinates: -28.107122, 26.869108



Site Notice 18 - Poster (Virginia Library)



Site Notice 18 - Poster (Virginia Library)

Appendix 5 - proof of submission of applications – None at this stage

Appendix 6 – Screening and Verification

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

EIA Reference number: FS 30/5/1/2/2/82 MR

Project name: Harmony Gold Tailings Storage Facility Projects

Project title: Brand A Tailings Storage Facility

Date screening report generated: 02/10/2023 12:54:13

Applicant: Harmony Gold

Compiler: Vukosi Mabunda

Compiler signature:


.....

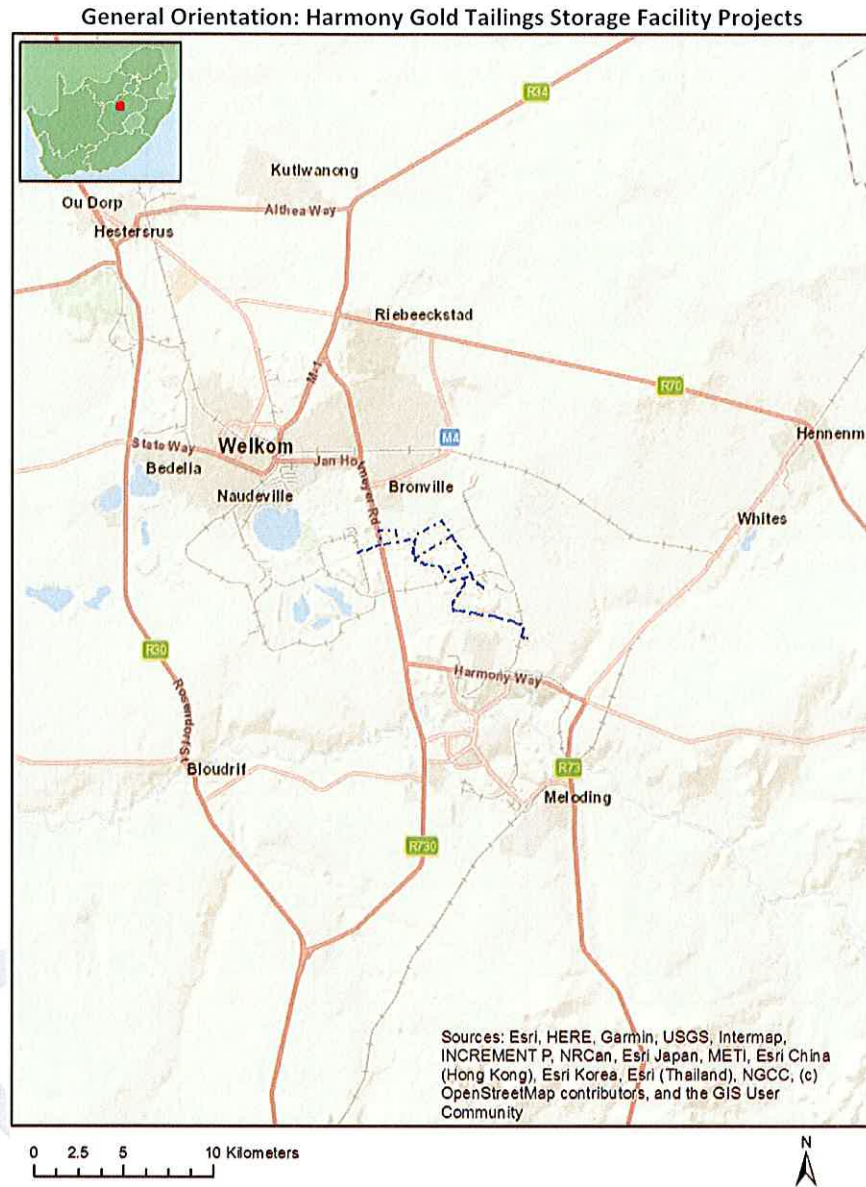
Application Category: Services|Waste Management Services|Storage Facilities|Hazardous

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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	SAAIPLAAS	771	0	28°2'29.21S	26°51'31.11E	Farm
2	SAAIPLAAS	690	0	28°0'45.62S	26°50'20.29E	Farm
3	HARMONY	222	0	28°3'16.44S	26°52'9.8E	Farm
4	RUSTGEVONDEN	564	0	28°3'20.12S	26°52'49.91E	Farm
5	KLIPPAN	14	0	28°1'45.3S	26°47'57.94E	Farm
6	VAALKRANZ	220	0	28°4'18.65S	26°54'36.14E	Farm
7	LA RIVIERA	289	0	28°4'6.54S	26°51'0.04E	Farm
8	RUSTGEVONDEN	564	1	28°3'23.08S	26°52'58.12E	Farm Portion
9	SAAIPLAAS	690	1	28°0'57.18S	26°49'5.28E	Farm Portion
10	KLIPPAN	14	1	28°0'45.06S	26°48'27.71E	Farm Portion
11	HARMONY	222	72	28°3'14.59S	26°52'12.42E	Farm Portion
12	SAAIPLAAS	771	15	28°2'9.19S	26°52'0.26E	Farm Portion
13	SAAIPLAAS	690	10	28°1'11.38S	26°49'7.54E	Farm Portion
14	SAAIPLAAS	690	15	28°0'58.41S	26°50'13.91E	Farm Portion
15	SAAIPLAAS	771	2	28°1'16.61S	26°51'42.18E	Farm Portion
16	LA RIVIERA	289	2	28°3'8.97S	26°51'54.84E	Farm Portion
17	SAAIPLAAS	690	11	28°0'54.05S	26°48'50.2E	Farm Portion
18	KLIPPAN	14	15	28°0'40.38S	26°48'45.56E	Farm Portion
19	KLIPPAN	14	2	28°2'10.14S	26°47'43.56E	Farm Portion
20	SAAIPLAAS	690	5	28°0'51.6S	26°49'33.5E	Farm Portion
21	SAAIPLAAS	771	12	28°2'54.14S	26°52'46.27E	Farm Portion
22	VAALKRANZ	220	14	28°3'31.3S	26°53'24.99E	Farm Portion
23	LA RIVIERA	289	4	28°3'5.6S	26°51'27.28E	Farm Portion
24	SAAIPLAAS	690	0	28°0'27.1S	26°49'25.33E	Farm Portion
25	SAAIPLAAS	690	0	28°1'27.86S	26°49'51.07E	Farm Portion
26	LA RIVIERA	289	3	28°2'56.96S	26°50'45.46E	Farm Portion
27	SAAIPLAAS	690	7	28°0'29.24S	26°48'51.16E	Farm Portion
28	SAAIPLAAS	771	0	28°2'24.12S	26°51'30.85E	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 No	Classification	Status of application	Distance from proposed area (km)
1	14/12/16/3/3/2/2099	Solar PV	Approved	20.5
2	14/12/16/3/3/1/1322	Solar PV	Approved	19.7
3	14/12/16/3/3/2/2101	Solar PV	Approved	20.5
4	12/12/20/2669/A	Solar PV	Approved	14
5	14/12/16/3/3/1/1471/AM1	Solar PV	Approved	14.4
6	12/12/20/2669	Solar PV	Approved	14
7	14/12/16/3/3/1/1472	Solar PV	Approved	14.9
8	12/12/20/2666/A	Solar PV	Approved	21.6
9	14/12/16/3/3/2/512	Solar PV	Approved	11.5
10	12/12/20/2668	Solar PV	Approved	26.2
11	14/12/16/3/3/1/1444	Solar PV	Approved	20.4
12	12/12/20/2666	Solar PV	Approved	21.6
13	14/12/16/3/3/1/1471	Solar PV	Approved	14.4
14	14/12/16/3/3/2/2100	Solar PV	Approved	20.5
15	12/12/20/2667	Solar PV	Approved	26.2

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:

Services | Waste Management Services | Storage Facilities | Hazardous.

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.

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.

Incentive, restriction or prohibition	Implication
Strategic Transmission Corridor-Central corridor	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_EGI.pdf

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		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 known impacts associated with the proposed development, 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.

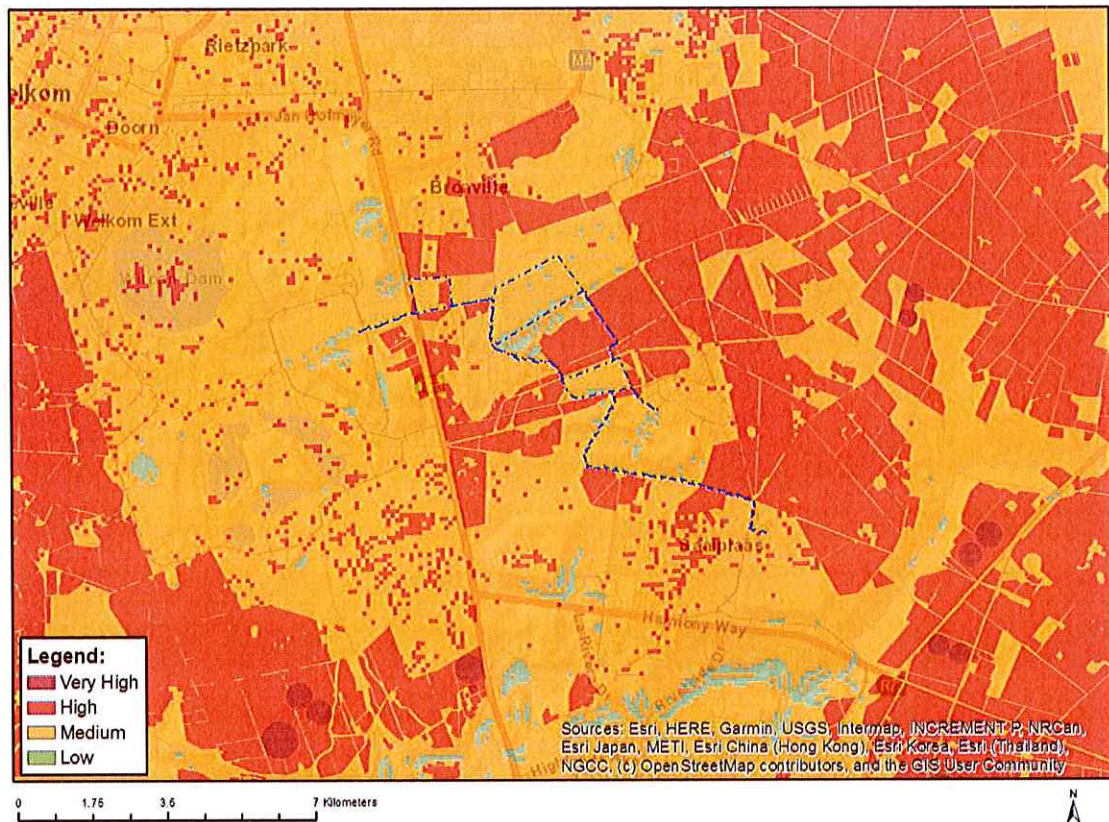
No	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Agriculture_Assessment_Protocols.pdf
2	Archaeological and Cultural Heritage Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_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	Hydrology Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Hydrology_Assessment_Protocols.pdf

		ssmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
7	Noise Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted Noise Impacts Assessment Protocol.pdf
8	Traffic Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
9	Health Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
10	Socio-Economic Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
11	Ambient Air Quality Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
12	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted Plant Species Assessment Protocols.pdf
13	Animal Species Assessment	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



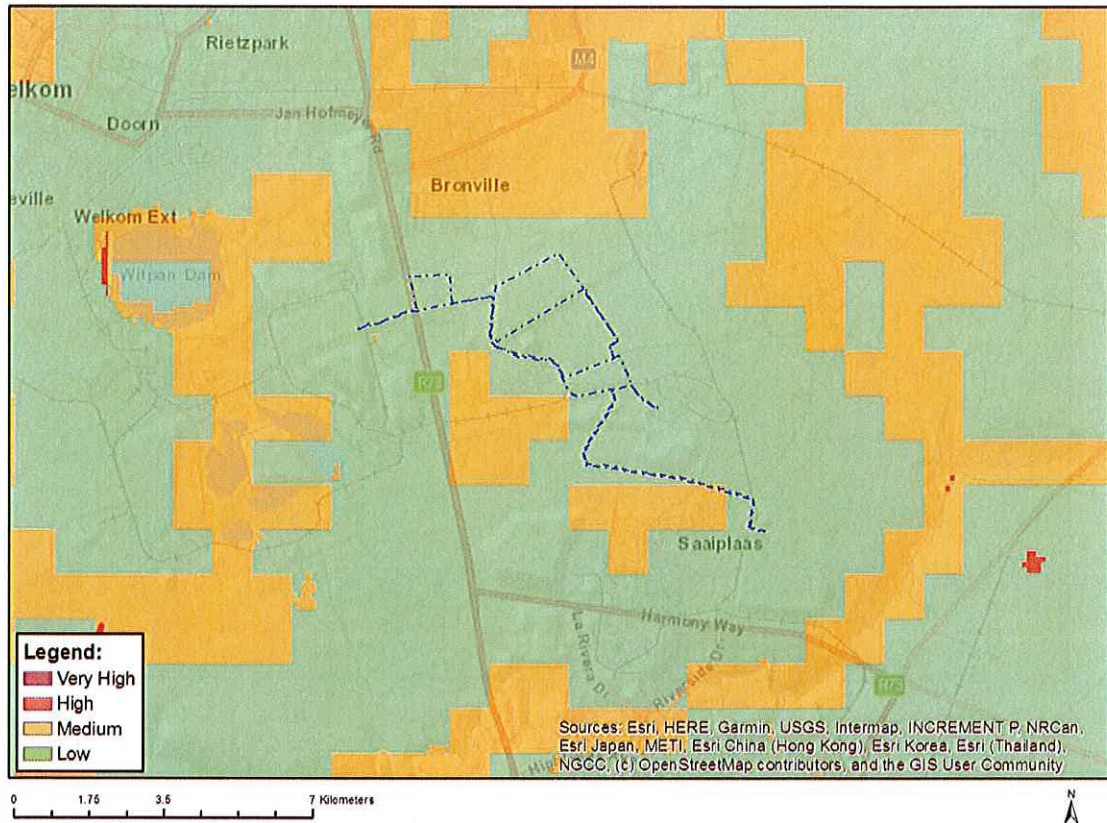
Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	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
High	Annual Crop Cultivation / Planted Pastures Rotation;Land capability;09. Moderate-High/10. Moderate-High
High	Old Fields;Land capability;01. Very low/02. Very low/03. Low-Very low/04. Low-Very low/05. Low
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	Annual Crop Cultivation / Planted Pastures Rotation;Land capability;01. Very low/02. Very low/03. Low-Very low/04. Low-Very low/05. Low

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



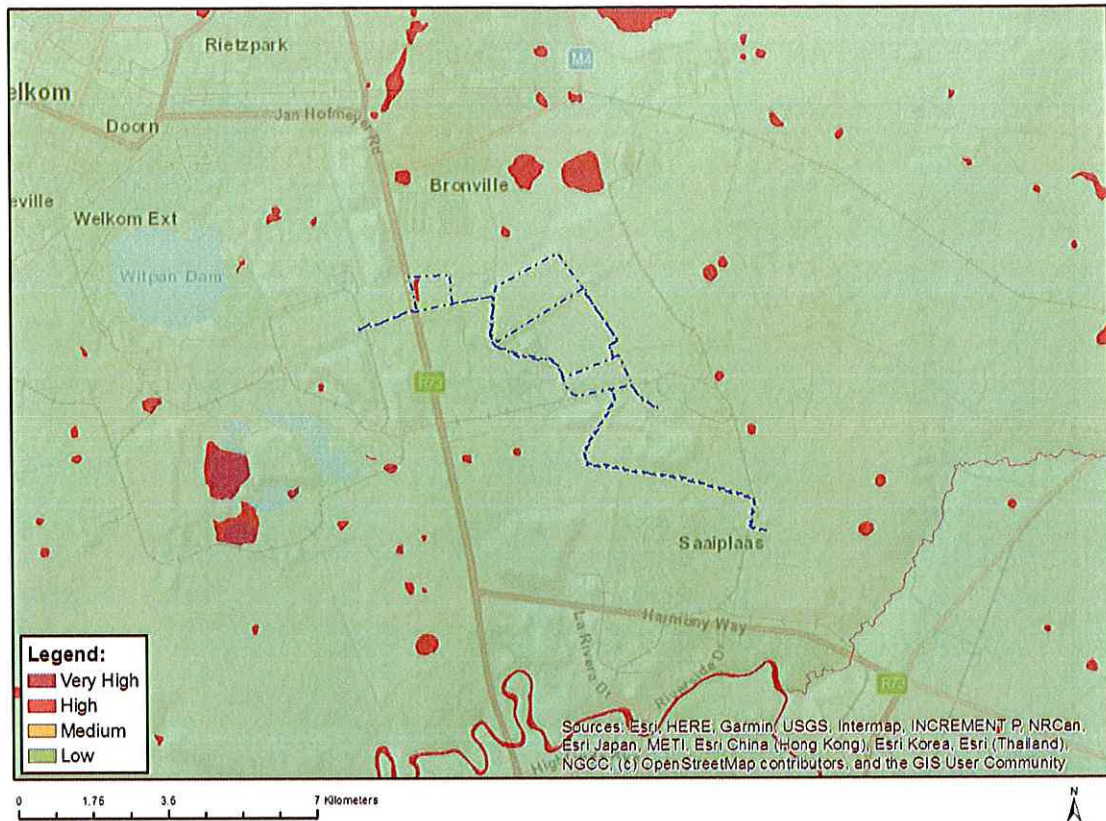
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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)
Low	Subject to confirmation
Medium	Sensitive species 15

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

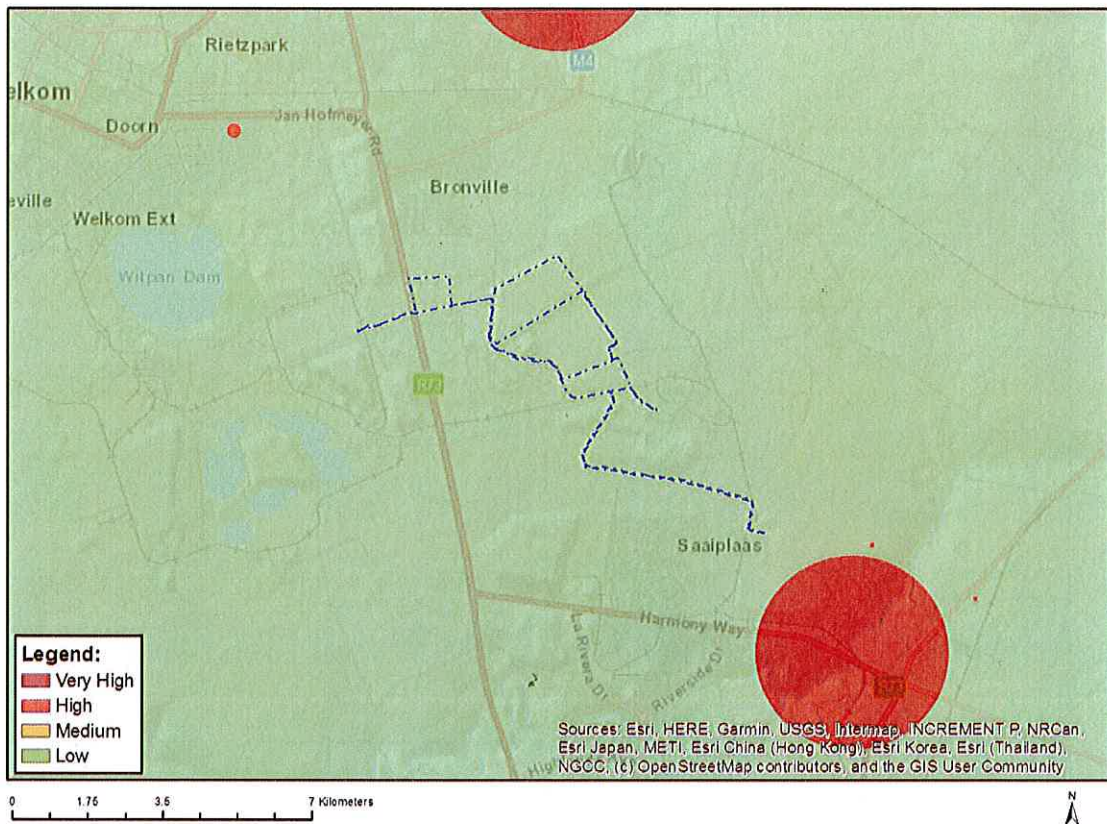


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity
Very High	Wetlands_Dry Highveld Grassland Bioregion (Depression)

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

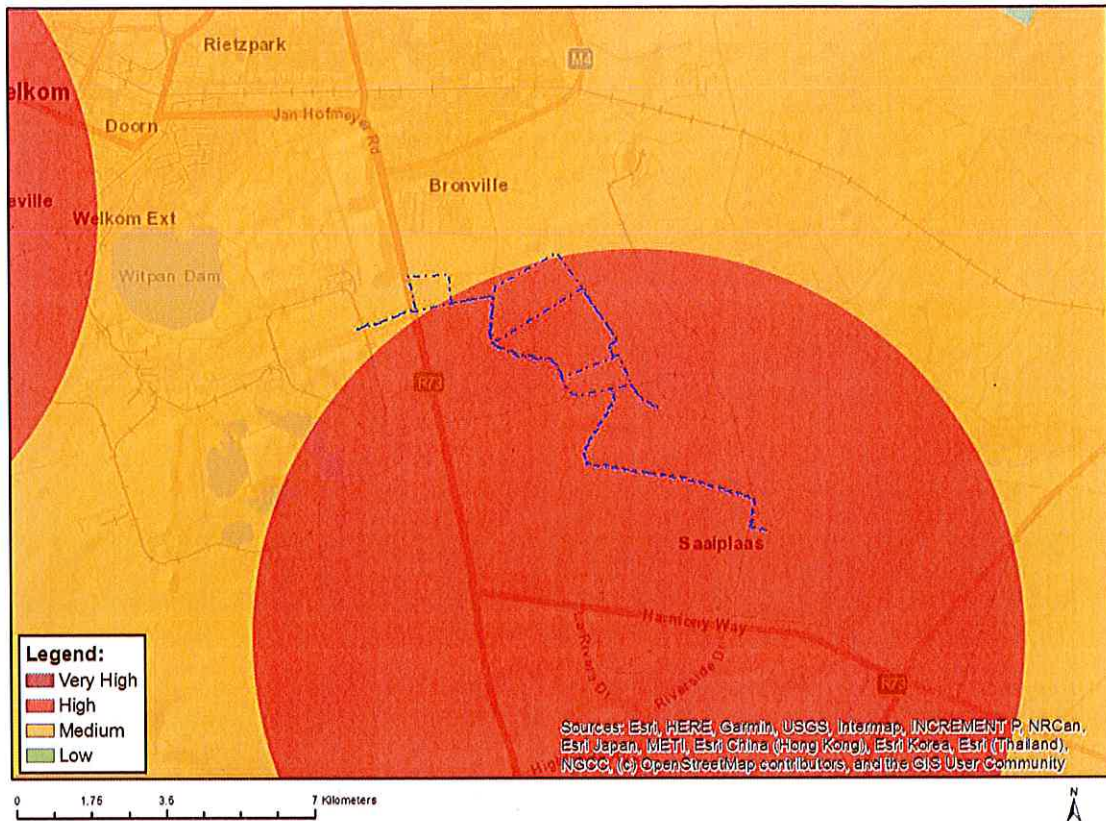


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

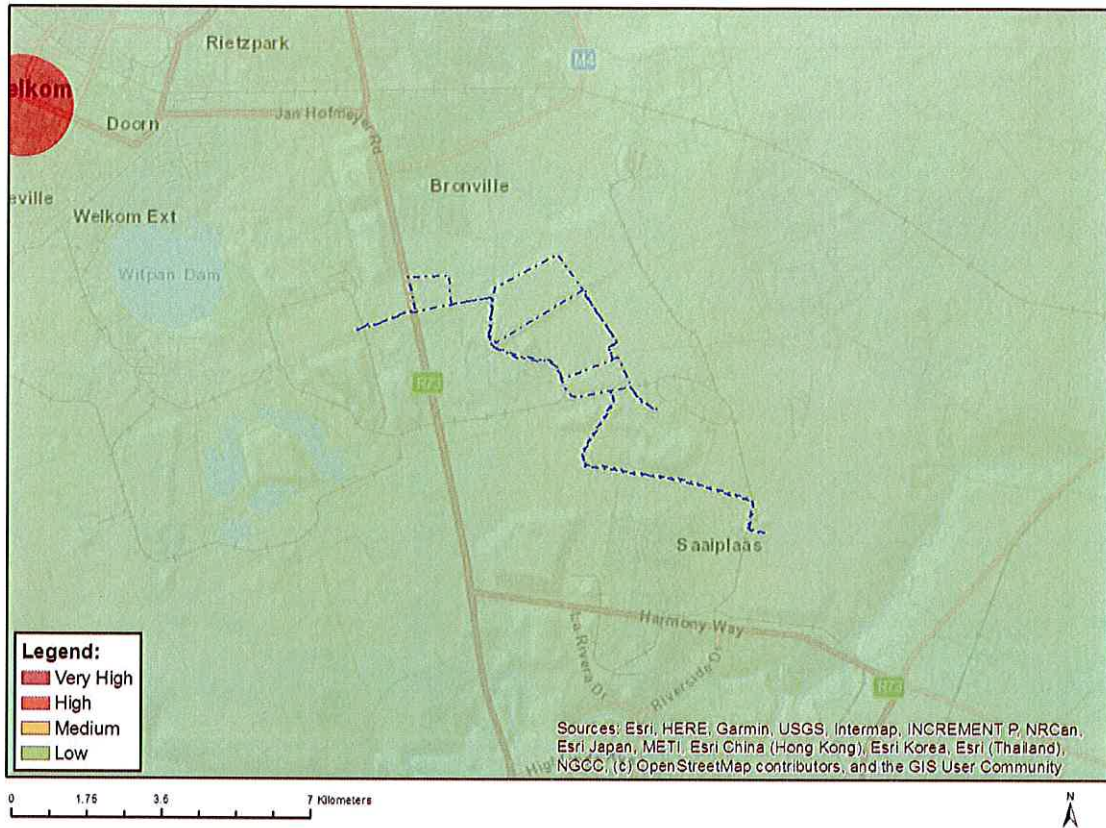


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

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

MAP OF RELATIVE DEFENCE THEME SENSITIVITY

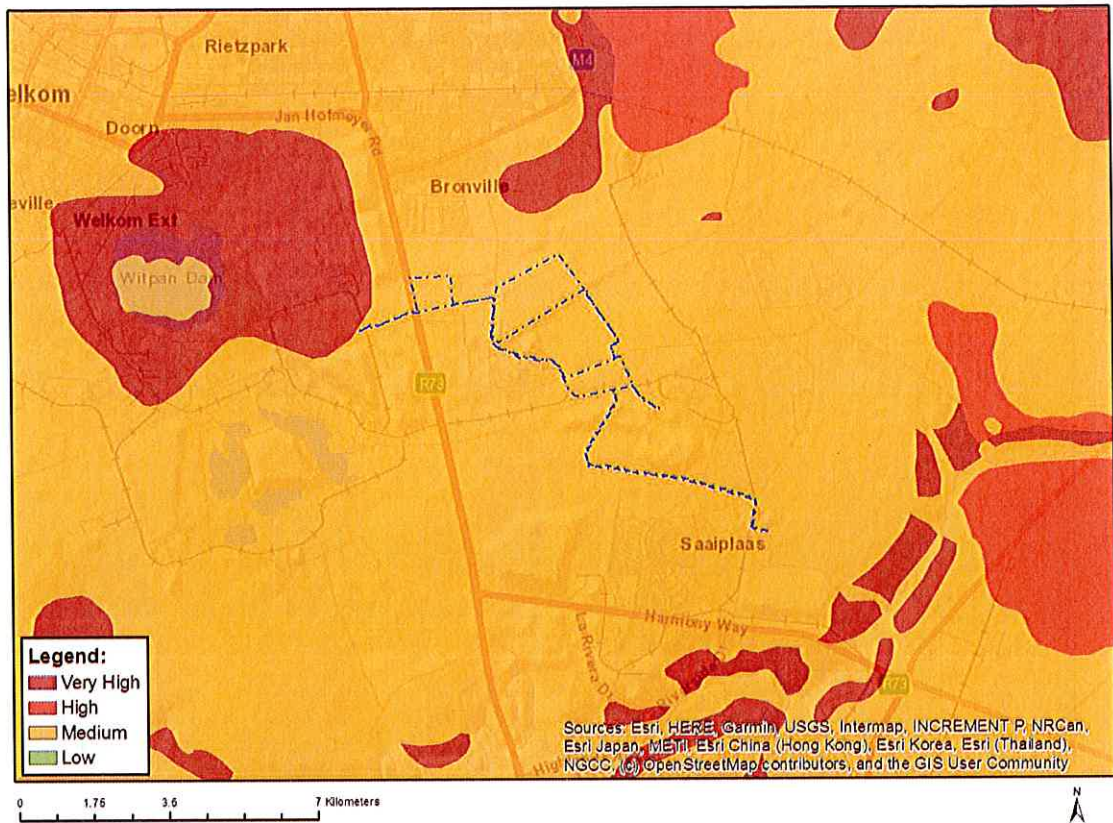


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

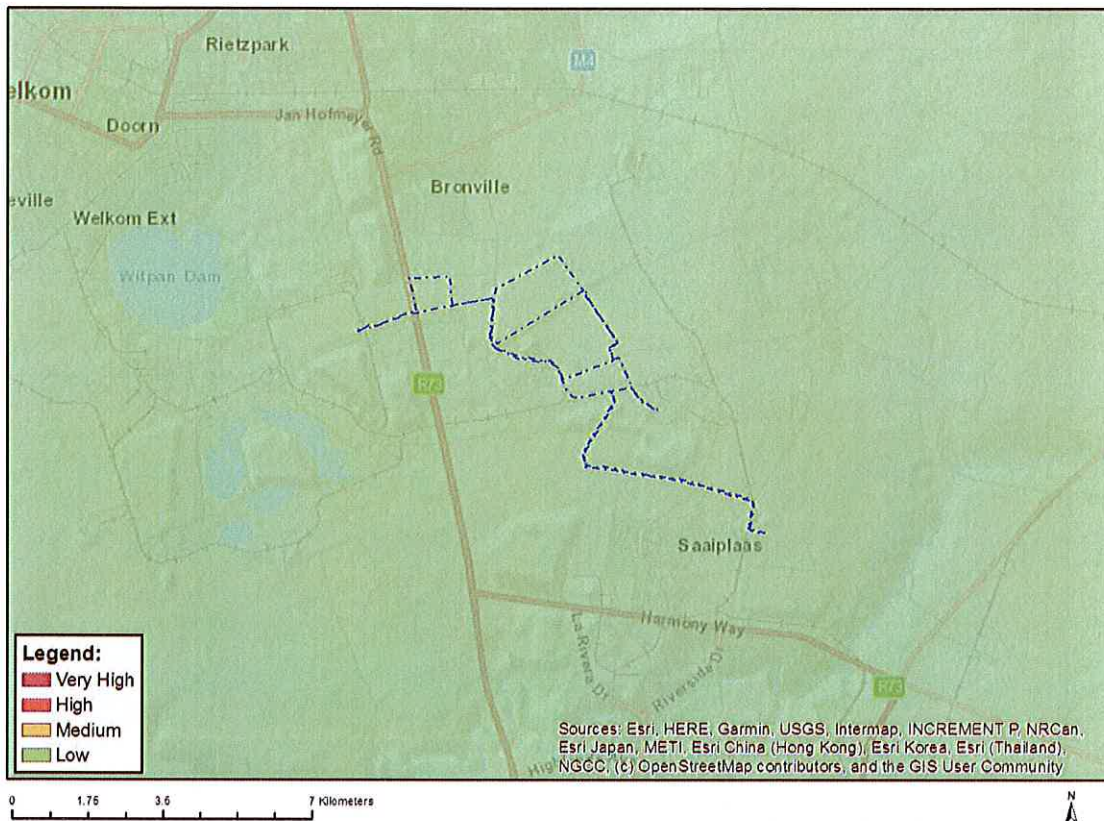


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

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

MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY



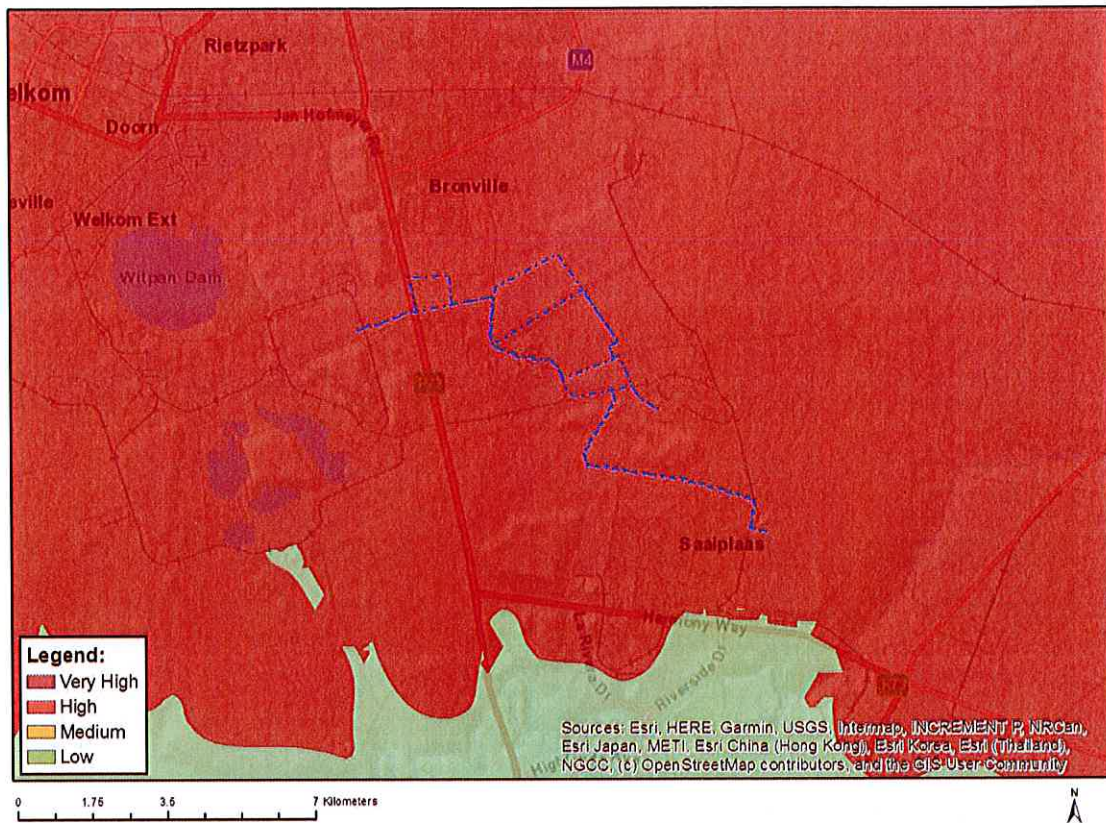
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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)
Low	Low Sensitivity

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Very High	CBA 1
Very High	EN_Vaal-Vet Sandy Grassland

PREPARED FOR:



PREPARED BY:

Harmony Gold Mining Company



Pre-disturbance Environmental Site Assessment and Site Specific EMP

Site ID:	Harmony Brand A TSF	Contractor:	EIMS
Location:	Harmony Mines - Welkom	Inspector:	Vukosi Mabunda
Client representative:	N/A	Inspection Date:	11 November 2023

1. Background

Background of the project: Harmony Gold Mining Company Limited (Harmony), also referred to as the 'Applicant', own and operate a number of Gold Mines and Plants in the Welkom region in the Free State. Harmony currently deposits tailings onto the Free State South (FSS) 2 Tailings Storage Facility (TSF), St. Helena 4 TSF, St. Helena 123 TSF, Dam 23 TSF, Brand D TSF and Target 1&2 TSF. The current planned Life of Mine (LOM) of the Free State Operations exceed the available deposition capacity of these TSF's and Harmony is undertaking a feasibility assessment to redeposit slurry on the footprint of Brand A TSF which has largely been reclaimed to date. Slurry deposition is proposed on the Brand A TSF footprint and there may be a requirement to upgrade the existing Return Water Dam (RW Dam).

Brand A TSF is located at 28° 0'53.81"S; 26°50'18.34"E between Bronville and Saaiplaas in Welkom, Free State Province. The study area falls within the Matjhabeng Local Municipality Wards 8, 11 and 24 (Lejweleputswa District Municipality) administrative area. The project area is situated within 27 farm properties distributed between Farm Harmony 222, Farm Klippan 14, Farm La Riviera 289, Farm Rustgevonden 564, Farm Saaiplaas 690, Farm Saaiplaas 771, and Farm Vaalkranz 220.

Slurry deposition is proposed on the Brand A TSF footprint and there may be a requirement to upgrade the existing Return Water Dam (RW Dam). In order to allow for slurry deposition on Brand A from either of the operational plants (Central Plant, Saaiplaas Plant and One Plant), a number of new residue deposition pipelines may be required:

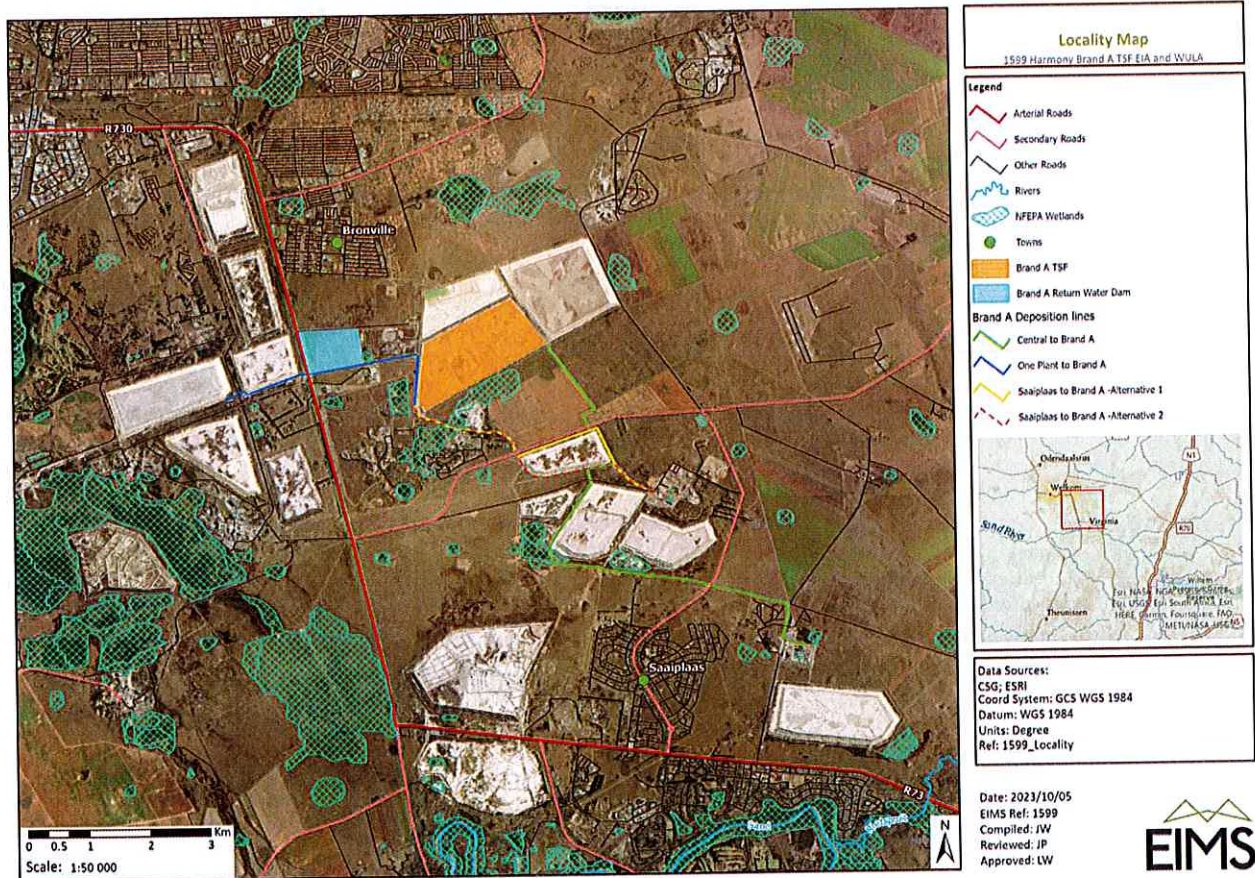
- **One Plant to Brand A** (approximately 4km long):
 - This pipe extends from the existing pipe from One Plant depositing onto FSS2 to Brand A and follows the route that already has other slurry pipelines
- **Saaiplaas Plant to Brand A:**
 - There are two optional routes around the Saaiplaas 6 TSF. Alternative 1 which ~4.6km long and alternative 2 ~4.4km long.
- **Central Plant to Brand A** (approximately 9.2km long):
 - Deposition from One plant to Brand A would follow the existing pipe route and could potentially use the same pipeline

The residue deposition pipelines will have a NB diameter of more than 360mm with a peak throughput of more than 120 ℓ/s. The pipelines will be flanged steel pipelines and installed above-ground on pre-cast concrete plinths. A 3.5m wide access road, adjacent to the pipelines, will be cleared/graded to provide access for construction, maintenance and inspections.



Project Aspects:	Yes	No	Details (provide specifications)	Location (DD MM SS)	
				Latitude	Longitude
❖ TSF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Expansion of Tailings Storage Facility and associated infrastructure. Other Points of Interest 1. One Plant to Brand A Pipeline: <ul style="list-style-type: none"> Start point: Endpoint: 2. Saaiplaas Plant to Brand A Pipeline: <ul style="list-style-type: none"> Start point: Endpoint: 3. Central Plant to Brand A Pipeline: <ul style="list-style-type: none"> Start point: Endpoint: 	Brand A 28° 0'53.81"S; 28° 1'17.78"S 28° 1'21.78"S 28° 2'10.69"S 28° 1'21.81"S 28° 3'32.84"S 28° 0'50.15"S	26°50'18.34"E 26°48'8.15"E 26°49'52.22"E 26°51'57.44"E 26°49'52.31"E 26°53'18.22"E 26°51'2.48"E
❖ Other:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	There is a potential to upgrade the Return Water Dam as part of the establishment of the Brand A TSF.		

2. Site Layout Plan



2. DEA Screening Tool Assessment

Aspect	Very High	High	Medium	Low
Agriculture		X		
Animal species			X	
Aquatic Biodiversity	X			
Archaeological and Cultural Heritage				X



Civil Aviation			X		
Defense Theme					X
Paleontology				X	
Plant Species Theme					X
Terrestrial Ecology/ Biodiversity		X			

3. Site Assessment

3.1 Gradient (indicate the general gradient characteristics of site)

Aspect										
	TSF area	site	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Is the site located on or in the immediate vicinity of any of the following:

	Yes	No	Comment
Erosion Channels or areas of severe erosion/ destabilized soils	<input type="checkbox"/>	<input checked="" type="checkbox"/>	No severe erosion observed.
Wetlands (within 32m)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Several wetland bodies close to the site.
Unstable slopes or geological features (rocky outcrops)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None were noted.
Bare areas	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There are very minimal bare areas.
Other Sensitive or risk areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	There were no potential risks or sensitive areas noted.
Are any existing servitudes and structures directly or indirectly affected by the proposed sites and routes (e.g., Eskom, public road servitudes and restrictions 60m from National Road, farmer's water/irrigation supplies, etc.)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	One Plant to Brand A Pipeline will transect underneath Provincial Road (R730).

3.2 Vegetation

Which of the listed descriptions best describes the general groundcover on and around the site?

Natural veld - good condition <input type="checkbox"/>	Natural veld with scattered aliens <input type="checkbox"/>	Natural veld with heavy alien infestation <input type="checkbox"/>	Veld dominated by alien species <input checked="" type="checkbox"/>	Gardens <input type="checkbox"/>
Sport field <input type="checkbox"/>	Cultivated land <input checked="" type="checkbox"/>	Paved surface <input type="checkbox"/>	Building or other structure <input checked="" type="checkbox"/>	Bare soil <input checked="" type="checkbox"/>

Comments on vegetation composition: Site is mostly grassland with scattered areas that are disturbed and degraded due to anthropogenic activities, such as clearing of vegetation, presence of alien and invasive plant species, and fragmentation due to the presence of the mining infrastructure such as existing TSFs and access roads. Existing TSFs located to the north, east and south of the site.

Comments on weed species/type: It appears that alien and invasive plant species are present on site. The exact type and species will be confirmed during the EIA specialist study.

Land cover/ use description: Describe the land uses on the site


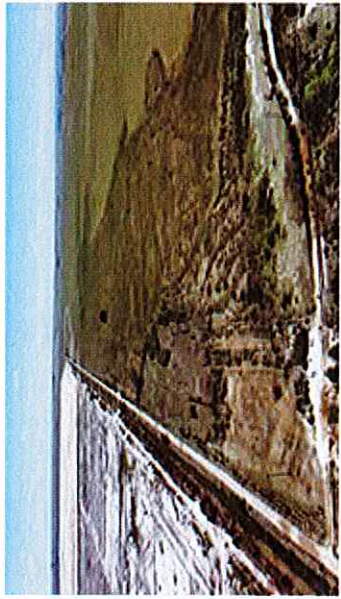


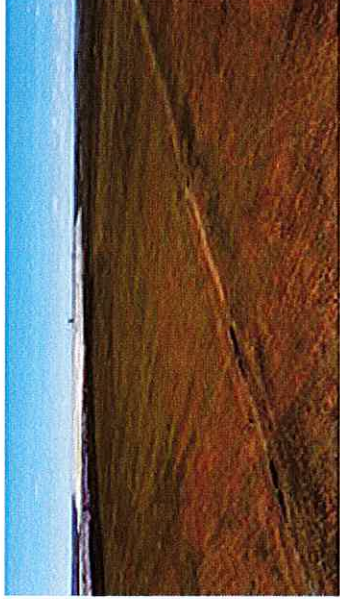



TSF area Significantly transformed land previously used for the same activity.



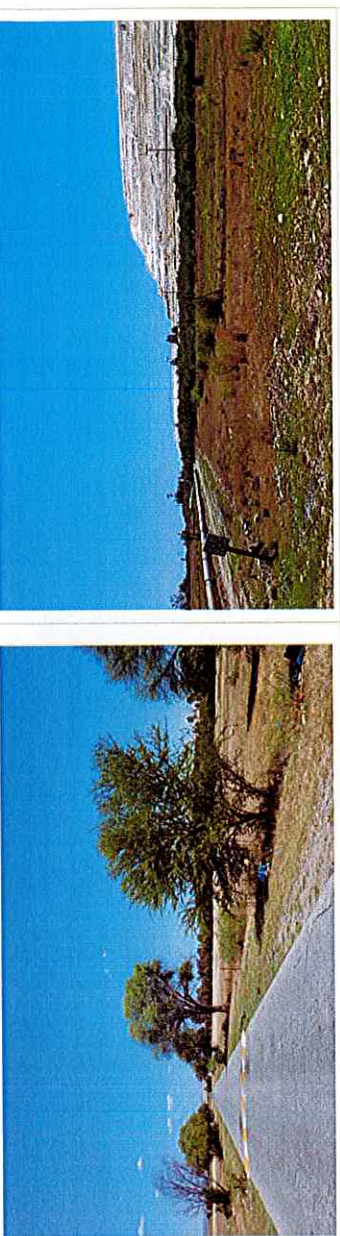
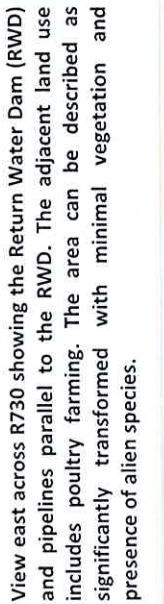
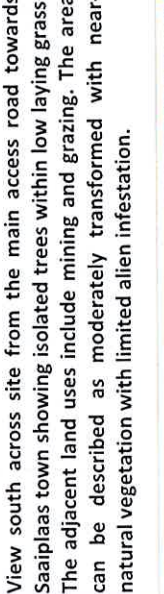

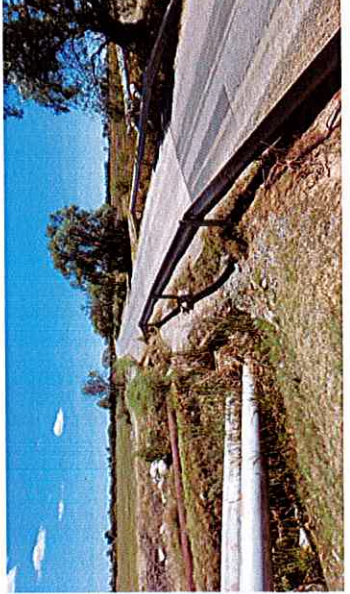
4. General Comments and Recommendations

In general the site for the TSF appears to be of low ecological sensitivity due to its proximity to mining areas and disturbance and degradation to the site areas due to current mining activities. A small number of alien plants were noted in the area as well. Several wetlands were noted during the site inspection. A portion of cultivated area were noted south of the proposed TSF area, however, there was no evidence of cultivation been currently undertaken, rather infestation by alien species. A Terrestrial Biodiversity specialist study will be undertaken to confirm the sensitive species that may occur on the site footprint. Aquatic and wetlands study will be undertaken to delineate and provide risk matrix as well as mitigation measures. Agricultural Impact study will be undertaken to identify potential impacts and mitigation measures on agricultural potential.

Site Photos

<p>Aspect: General TSF area</p>			
<p>Describe area and adjacent land use:</p>	<p>View north across the Brand A TSF site showing the extent of the reclamation of Brand A. The only adjacent land use is mining. The area can be described as significantly transformed with minimal vegetation cover and scattered aliens.</p>	<p>Eastern view from the Brand A TSF showing a large body of wetland. Several wetlands noted along the southern extent of the Brand A TSF. The only adjacent land use is mining. The area can be described as moderately transformed with near-natural vegetation and grassland with pockets of wetlands and scattered aliens.</p>	<p>Southern view from the Brand A TSF showing general site conditions. The only adjacent land use is mining. The area can be described as moderately transformed with near-natural vegetation and grassland with pockets of Eucalyptus globulus (blue gum) trees and scattered aliens.</p>
<p>Aspect: General TSF area</p>			
<p>Describe area and adjacent land use:</p>	<p>Western view from the Brand A TSF showing some of the existing structures on site. Area comprising of substation and powerlines mainly for the mining activities. The area can be described as significantly transformed with modified vegetation and grassland with isolated Eucalyptus globulus (blue gum) trees and scattered aliens.</p>	<p>Northern view from main access road adjacent to Saaiplaas TSF showing crop fields. The adjacent land use is mining and previously cultivated land. The area can be described as moderately transformed with modified grassland infested by aliens.</p>	<p>Southern view from main access road adjacent to Saaiplaas TSF showing the routing of the existing pipelines. The only adjacent land use is mining. The area can be described as moderately transformed with modified vegetation and grassland with scattered aliens.</p>



<p>Aspect: General TSF area</p>		<p>View east across R730 showing the Return Water Dam (RWD) and pipelines parallel to the RWD. The adjacent land use includes poultry farming. The area can be described as significantly transformed with minimal vegetation and presence of alien species.</p>
		<p>View west across site from the main access road towards Saaiplaas town showing existing pipelines, pocket of thicket vegetation and Saaiplaas TSF. The adjacent land uses include mining and grazing. The area can be described as moderately transformed with near-natural vegetation with limited alien infestation.</p>
<p>Describe area and adjacent land use:</p>		<p>View east across site from the main access road adjacent to Saaiplaas TSF showing the existing pipelines going over the road. The proposed pipelines will likely follow the same path. The adjacent land uses include mining and crop farming.</p>
<p>Describe area and adjacent land use:</p>		<p>View west across site from the main access road towards Saaiplaas Town showing the existing pipelines going underneath the access road. The proposed pipelines will likely follow the same path. The adjacent land uses include mining and grazing.</p>
<p>Aspect: General TSF area</p>		<p>View west across site from the main access road towards Saaiplaas Town showing the existing pipelines going underneath the access road. The proposed pipelines will likely follow the same path. The adjacent land uses include mining and grazing.</p>
<p>Describe area and adjacent land use:</p>		<p>View west across site from the main access road towards Saaiplaas Town showing the existing pipelines going underneath the access road. The proposed pipelines will likely follow the same path. The adjacent land uses include mining and grazing.</p>



7. Verification findings and motivation:

Assessment for specialist studies and motivation:

Screening Tool Specialist Study Required:	Level of Sensitivity:	of	Suggested Sensitivity:	Required Assessment level:	of	Motivation
Aquatic Biodiversity	Very High		Medium	None. <input type="checkbox"/>		A full aquatic assessment will be undertaken due to the pre-identified wetlands around the proposed development footprint.
				Compliance Statement <input type="checkbox"/>		
				Full Assessment <input checked="" type="checkbox"/>		
Archaeological and Cultural Heritage	Low		Low	None. <input type="checkbox"/>		A full HIA is required as Section 38 of the NHRA is triggered by the proposed activity.
				Compliance Statement <input type="checkbox"/>		
				Full Assessment <input checked="" type="checkbox"/>		
Paleontology	Medium		Low	None. <input type="checkbox"/>		A full PIA will be undertaken due to the medium sensitivity identified by the DFFE Screening Tool and associated protocols.
				Compliance Statement <input type="checkbox"/>		
				Full Assessment <input checked="" type="checkbox"/>		
Agriculture Theme	Very High		Low	None. <input type="checkbox"/>		A soils assessment will be undertaken as part of the EA. Although the proposed Brand A TSF is within a defined area and will have minimal impact on external activities outside its footprint, there are agricultural activities within close proximity of the site.
				Compliance Statement <input type="checkbox"/>		
				Full Assessment <input checked="" type="checkbox"/>		
Terrestrial Biodiversity	High		Low	None. <input type="checkbox"/>		Full assessment will be undertaken as part of the EIA due to the pre-identified very high sensitivity and clearance of vegetation which will be required within NEMBA listed sensitive ecosystem.
				Compliance Statement <input type="checkbox"/>		
				Full Assessment <input checked="" type="checkbox"/>		
Animal Species	Medium		Low	None. <input type="checkbox"/>		This will be covered by the terrestrial



					biodiversity assessment.
			Compliance Statement	<input type="checkbox"/>	
			Full Assessment	<input checked="" type="checkbox"/>	
			Other	<input checked="" type="checkbox"/>	
			None.	<input type="checkbox"/>	
Plant Species	Low	Low	Compliance Statement	<input type="checkbox"/>	This will be covered by the terrestrial biodiversity assessment.
			Full Assessment	<input checked="" type="checkbox"/>	
			Other	<input type="checkbox"/>	
			None.	<input checked="" type="checkbox"/>	Civil Aviation Assessment will not be undertaken as although there is Harmony Airport FAHA approximately 3km south of the development site, the Airport has since been discontinued. In addition, the proposed development blends in with the existing land uses in the area and there is no anticipated impacts on civil aviation emanating from the project.
Civil Aviation	High	Low	Compliance Statement	<input type="checkbox"/>	
			Full Assessment	<input type="checkbox"/>	
			Other	<input type="checkbox"/>	
			None.	<input checked="" type="checkbox"/>	Defense Impact Assessment will not be undertaken. There are no military bases / facilities present within the vicinity of the project site. The nearest defense facility is the military base in Kroonstad, approximately 60km northeast of the site.
Defence	Medium	low	Compliance Statement	<input type="checkbox"/>	
			Full Assessment	<input type="checkbox"/>	
			Other	<input type="checkbox"/>	

Guidance notes:

- An applicant intending to undertake an activity identified in the scope of this protocol, on a site identified by the screening tool as being of “very high” or “high” sensitivity for terrestrial animal species must submit a Terrestrial Animal Species Specialist Assessment Report.
- An applicant intending to undertake an activity identified in the scope of this protocol on a site identified by the screening tool as being of “medium sensitivity” for terrestrial animal species must submit either a Terrestrial Animal Species Specialist Assessment Report or a Terrestrial Animal Species Compliance Statement, depending on the outcome of a site inspection undertaken in accordance with paragraph 4.
- An applicant intending to undertake an activity identified in the scope of this protocol on a site identified by the screening tool as being of “low” sensitivity for terrestrial animal species must submit a Terrestrial Animal Species Compliance Statement.
- Where the information gathered from the site sensitivity verification differs from the screening tool designation of “very high” or “high”, for terrestrial animal species sensitivity and it is found to be of a “low” sensitivity, then a Terrestrial Animal Species Compliance Statement must be submitted.
- Where the information gathered from the site sensitivity verification differs from the screening tool designation of “low” terrestrial animal species sensitivity and it is found to be of a “very high” or “high” terrestrial animal species sensitivity, a Terrestrial Animal Species Specialist Assessment must be conducted.
- If any part of the development falls within an area of confirmed “very high” or “high” sensitivity, the assessment and reporting requirements prescribed for the “very high” or “high” sensitivity, apply to the entire development footprint. Development footprint in the context of this protocol means, the area on which the proposed development will take place and includes the area that will be disturbed or impacted.

Appendix 7 – POP



NOTIFICATION OF PAYMENT

To Whom It May Concern:

First National Bank hereby confirms that the following payment instruction has been received:

Date Actioned	: 2024/03/27
Time Actioned	: 12:30:38
Trace ID	: 6QSY3XL

Payer Details

Payment From	: *Environmental Impact M Ment Serv (pty)
Cur/Amount	: 15,000.00

Payee Details

Recipient/Account No	: . . 164233
Name	: Department of Minera
Bank	: ABSA BANK LIMITED
Branch Code	: 632005
Reference	: MR82_Brand

END OF NOTIFICATION

To authenticate this Payment Notification, please visit the First National Bank website at fnb.co.za, select the "Verify Payments" link and follow the on-screen instructions.

Our customer (the payer) has requested First National Bank Limited to send this notification of payment to you. Should you have any queries regarding the contents of this notice, please contact the payer. First National Bank Limited does not guarantee or warrant the accuracy and integrity of the information and data transmitted electronically and we accept no liability whatsoever for any loss, expense, claim or damage, whether direct, indirect or consequential, arising from the transmission of the information and data.
