

BACKGROUND INFORMATION DOCUMENT

PROPOSED HARMONY NOOITGEDACHT TAILINGS STORAGE FACILITY PROJECT, IN MATJHABENG LOCAL MUNICIPALITY, FREE STATE, SOUTH AFRICA.



PURPOSE OF THIS DOCUMENT:

- This Background Information Document (BID) provides you, as an Interested and Affected Party (I&AP), an overview of the proposed project.
- The BID invites you, as an I&AP, to participate in the required Public Participation Process.
- The BID provides you, as an I&AP with an opportunity to contribute and participate in the formulation of the Scoping and Environmental Impact Assessment (EIA) Reports.
- The BID also provides you, as an I&AP an opportunity to provide the project team with your comments, concerns and

INTRODUCTION:

Harmony Gold Mining Company Limited has appointed Environmental Impact Management Services (EIMS) as the Environmental Assessment Practitioner (EAP) to assist with undertaking the necessary authorisation processes, including compiling the necessary reports and undertaking the statutory consultation processes, in support of the proposed project as described herein.

It is anticipated that several listed or regulated activities contained in the following legislation will be potentially be triggered by the proposed project:

- National Environmental Management Act- NEMA (Act 107 of 1998- as amended);
- National Environmental Management: Waste Act- NEM:WA (Act 59 of 2008); and
- National Water Act – NWA (Act 36 of 1998).

The exact enviro-legal requirements and activities will be confirmed during the Authority pre-application meetings and scoping phase of this project.

The Environmental Impact Assessment (EIA) process will be undertaken in terms of Chapter 6 of the EIA Regulations, 2014 (GNR 982) promulgated under the NEMA (as amended). A full EIA process will be followed which involves a scoping phase which is the 'feasibility' and largely desk-top assessment stage of the project, followed by more detailed assessments in the EIA phase.

Aim of the Background Information Document (BID):

The aim of the BID is to:

- Provide an overview of the Environmental Authorisation/Licensing Applications as well as the public participation processes which will be undertaken for the proposed project;
- Allow Interested and Affected Parties (I&APs) the opportunity to obtain a broad understanding of the proposed project and to request or share information; and
- Provide details on how I&APs can register their interest with and submit comments on the project. It is important to note that only registered I&APs will receive further



objections to the proposed project.

communication regarding the project for the duration of the EIA process (i.e. invitation to review and comment on the Scoping and EIA Reports).

LOCATION, SCALE, AND EXTENT OF THE PROPOSED PROJECT:

LOCATION

The proposed project and activity are proposed to be undertaken at the following location:

- Property Description: **The proposed TSF will be located on Farm portions Mijannie 66 Ptn 0/RE, Goedgedacht 53 Ptn 0, Nooitgedacht 50 Ptn 0, Jacobsdal 37 Ptn 0 and Rheedersdam 31 Ptn 0.** The proposed pipelines traverse the following farm portions: **Vlakplaats 125 Ptn 3, 4 and 5; Mijannie RE/66 Ptn 0; Toronto RE/115 Ptn 7 and 0; Rietpan 17 Ptn 0; Rietkuil 28 Ptn 0; Rheeders Dam 31 Ptn 0; Farm 41 Ptn 20; Ouders Gift 48 Ptn 0; Nooitgedacht 50 Ptn 0; Goedgedacht 53 Ptn 0; Theronia 71 Ptn 1 and 7; Jacobsrust 118 Ptn 0; St Helena 42 Ptn 2 and 3, Farm 80 Ptn 0, Stuirmanship 92 Ptn 1, 7 and 0, Saaiplaas 690 Ptn 1, 11, 15 and 0; Klippan 14 Ptn 1, 2 and 15, Marmageli 20 Ptn 0 and 157 Ptn 0**
- Central Co-ordinates: **27°56'30.11"S , 26°39'43.96"E**
- Regional Description:
 - Local Municipality: **Matjhabeng Local Municipality**
 - Province: **Free State Province**
- Closest town or point of interest: **Welkom**

Please refer to locality map at the end of this BID.

PROJECT DESCRIPTION:

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 and the applicant is therefore proposing to construct the proposed Nooitgedacht TSF to cater for this additional capacity. The TSF will cover an area of approximately 8.95 km². In addition, three new pipelines are required to be constructed:

- **Two 10km long slurry lines from Harmony One Plant to the St Helena Booster Pump Station;**
- **One 16km long slurry line from Brand A TSF to the St Helena Booster Pump Station; and**
- **One 17km slurry line from the St Helena Booster Pump Station to FSN 1 TSF.**

The pipelines will be flanged steel pipelines of over 0,36m in diameter 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.

LEGISLATIVE REQUIREMENTS

The proposed project requires certain authorisations, approvals, permits, and/or licences. The following requirements have specifically been identified:

Relevant Legislation	Listed activities or triggers	Authorisation, Approval, Licence, or Permit requirement:
Chapter 5 of the NEMA	GNR 984 (2014, as amended): Activities Activity 15	Environmental Authorisation (EA)



Chapter 4 of the NEM:WA	GN921 (2013 as amended): Waste Management Activities)- Activity B11	Waste Management Licence (WML)
Chapter 4 of the NWA	NWA, Section 21 Water Uses: Section 21 (c), Section 21 (i) and Section 21 (g).	Water Use Licence (WUL).

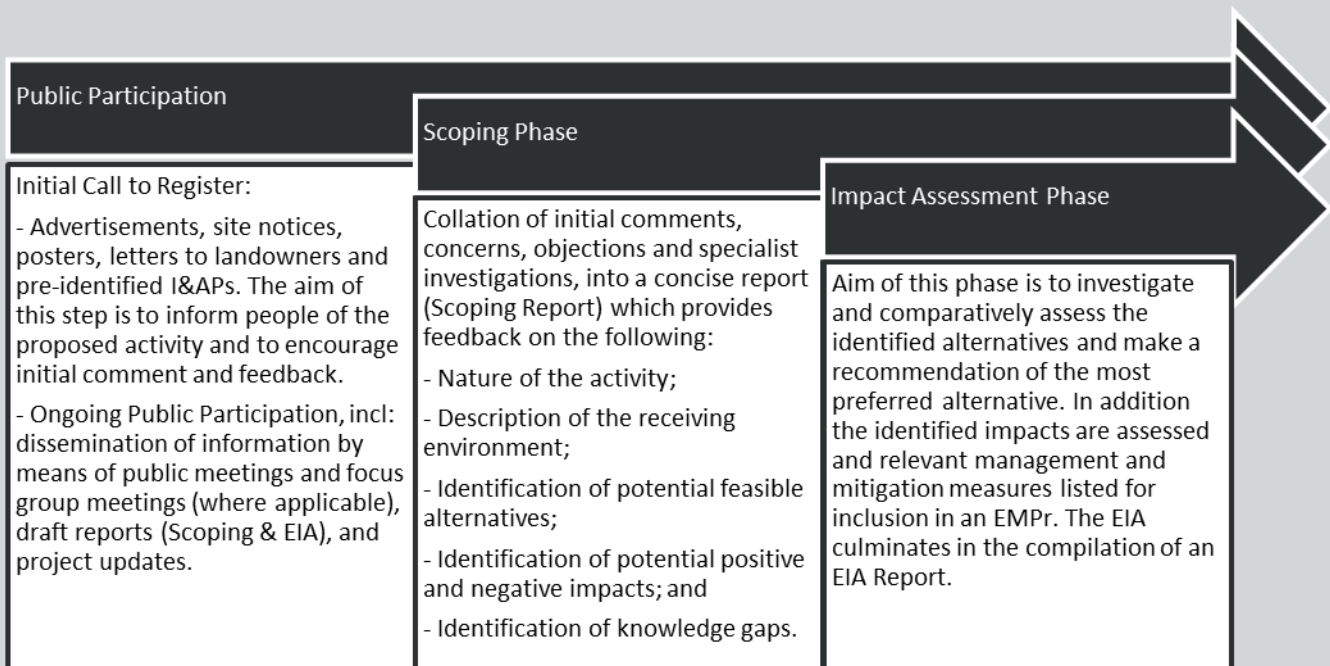
As a consequence of triggering the provisions above, there is a requirement to undertake an Environmental Impact Assessment Process (EIA). The EIA is to be undertaken in accordance with the requirements of the NEMA EIA Regulations (GNR982, 2014 as amended).

IMPACT ASSESSMENT PROCESS

An EIA process is a planning and decision making tool, to describe and assess the physical, biological, social, and economic impacts which a given development or project may have. To be able to inform the decision-making process, it is important for public issues and concerns to be identified timeously, to enable the EIA team to evaluate them.

The EIA process allows for the environmental consequences of a proposed project to be identified up-front, investigated throughout the impact assessment process, and taken into consideration by the decision-making authorities. The EAP and various specialists also identify potential negative and positive impacts that could arise as a result of the proposed project and identify applicable mitigation measures required, to avoid or reduce negative impacts and to enhance positive impacts.

A board overview of EIA process is provided:



Once the relevant processes have been completed and the final documentation submitted to the competent authority, the competent authority reviews the application and makes an informed decision. The I&APs will be informed of the decision and their right to appeal in the event that they disagree with the decision.

PRELIMINARY ENVIRONMENTAL IMPACTS

One of the key drivers to a successful EIA is to ensure that potential impacts (both positive and negative) are identified and investigated. Additional impacts may be identified during the Scoping phase and relevant specialists will be included into the EIA team in order to accurately and objectively assess these potential impacts. A number of potential environmental impacts associated with the proposed project have been identified. Preliminary identified potential impacts to be assessed in this EIA process include amongst others:



- **Air Quality Impacts**
- **Surface Water Impacts**
- **Groundwater Impacts**
- **Ecological Impacts**
- **Soils and Land Capability Impacts**
- **Impacts on Wetlands**
- **Noise and Visual Impacts**
- **Health Impacts**
- **Socio-economic Impacts**
- **Heritage and Palaeontology Impacts**

The above-mentioned impacts should not be construed as the only impacts that will be identified during the course of the EIA. Based on public consultation, specialist input and further detailed assessments, additional impacts will likely be identified and assessed.

All potential impacts will be identified and assessed following an impact assessment methodology 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).

Furthermore, based on the identified impacts and their ratings, mitigation and management measures are recommended for the applicant and these are included in an Environmental Management Programme (EMPr) towards ensuring that any negative impacts that cannot be avoided are minimised and managed, and positive impacts maximised.

Specialist studies may be utilised to guide and inform the assessment of the potential impacts. The specialist studies identified to be included in this assessment include:

- Air Quality, Surface Water, Groundwater, Terrestrial and Aquatic Ecology, Soils and Land Capability, Wetlands, Noise, Visual, Health, Socio-economic, Heritage and Palaeontology.

The need for further specialist studies may be identified through the scoping process.

HOW TO GET INVOLVED

Should you feel that you may be interested in, or affected by, this project, it is essential that you register as an Interested and Affected Party (I&AP) in which case you will be kept informed regarding the project and afforded an opportunity to participate in the process. Please note that only registered I&APs will be included in future correspondence regarding the project and associated updates. You may register and/or comment as an I&AP in any of the following ways:

- Complete the I&AP registration form and questionnaire and return it to EIMS via email, fax or post;
- Submit written comments, registrations, or requests to EIMS via email, fax or post; and/or
- Via telephone call.

It is important to note that the EIA process is guided by legally stipulated timeframes and as such, in order to ensure your continued and valuable involvement in the project, we request that your registration requests and any preliminary comments are submitted to EIMS (contact details provided below) by **10 May 2023**



Please note that further to the above, all registered I&APs will also be notified in due course of further participation opportunities, as well as the availability of the Scoping Report and Environmental Impact Report upon which comments will be solicited.

Environmental Impact Management Services (Pty) Ltd (EIMS)

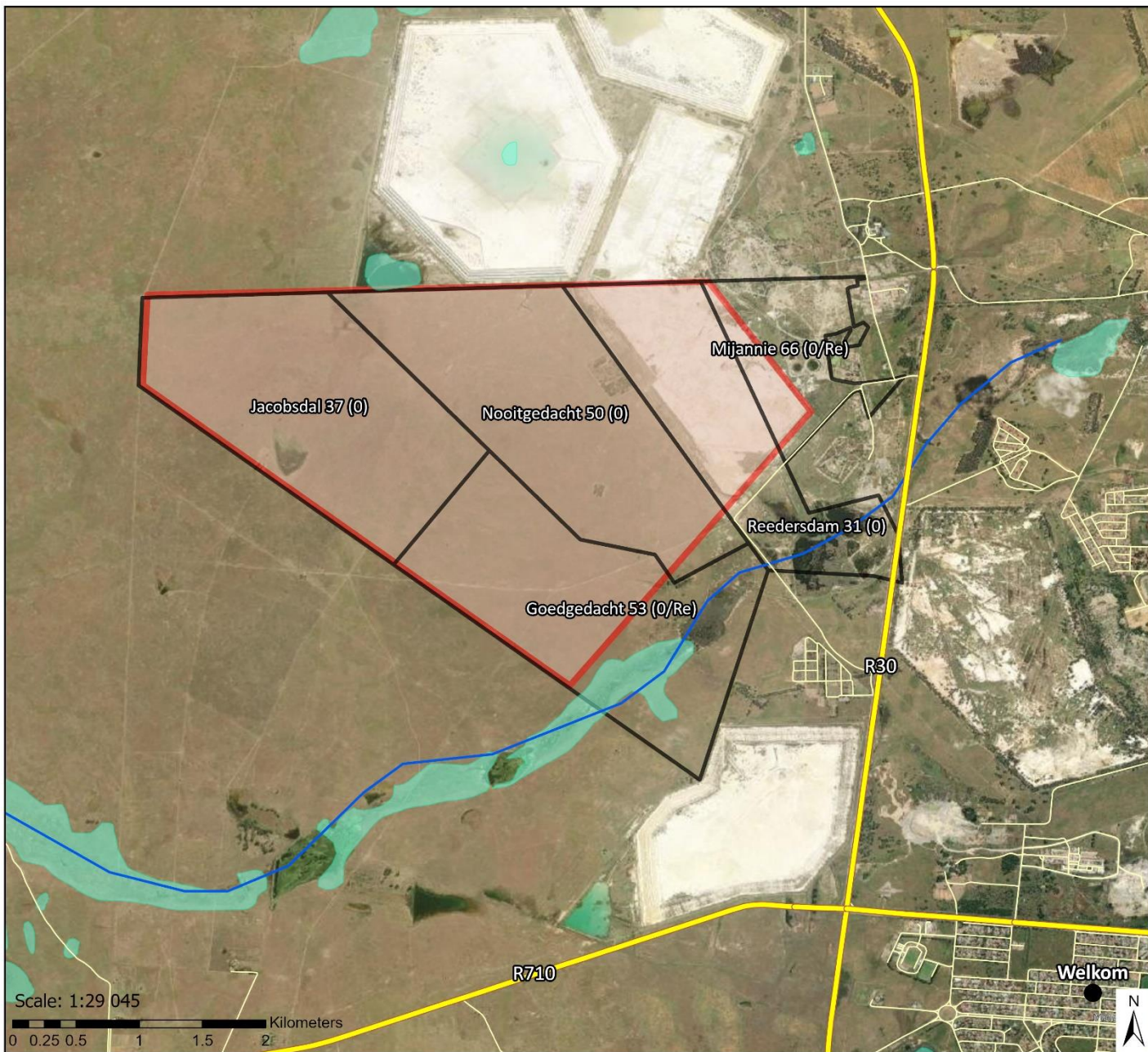
Contact Person: Alex Mispa

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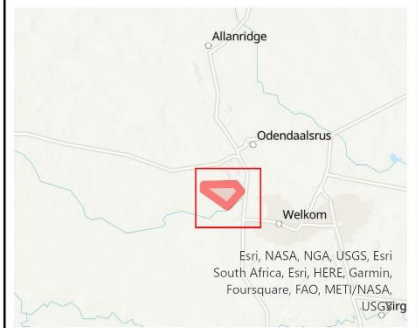


Locality Map

1565 Harmony Nooitgedacht TSF EIA WUL

Legend

- Proposed Tailings Storage Facility
- Local Town
- Local Roads
- Rivers
- Wetlands (National Wetland Map)
- Affected Farm Portions
- Regional Roads



Data Sources:
CSG; ESRI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1565_Locality Map

Date: 2023/03/28
EIMS Ref: 1565
Compiled: CM
Reviewed: JP
Approved: LW

