

EVANDER GOLD MINES LIMITED

SCOPING REPORT FOR THE RE-PROCESSING OF TAILINGS, AND ASSOCIATED EXPANSION OF THE KINROSS TSF

DRAFT FOR PUBLIC REVIEW

OCTOBER 2016

REFERENCE NO.: MP30/5/1/2/3/2/1/126MR



mineral resources

Department:
Mineral Resources
REPUBLIC OF SOUTH AFRICA

SCOPING REPORT

DRAFT FOR PUBLIC REVIEW

FOR LISTED ACTIVITIES ASSOCIATED WITH REPROCESSING OF THE GOLD TAILINGS FACILITIES AND EXTENSION OF THE KINROSS TSF

SUBMITTED FOR ENVIRONMENTAL AUTHORIZATIONS IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 AND THE NATIONAL ENVIRONMENTAL MANAGEMENT WASTE ACT, 2008 IN RESPECT OF LISTED ACTIVITIES THAT HAVE BEEN TRIGGERED BY APPLICATIONS IN TERMS OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (MPRDA) (AS AMENDED).

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FILE REFERENCE NUMBER SAMRAD:	Mining Right No.: MP 30/5/1/2/3/2/1/126 MR Record No.: MP-00041-MR/102



IMPORTANT NOTICE

In terms of the Mineral and Petroleum Resources Development Act (Act 28 of 2002 as amended), the Minister must grant a prospecting or mining right if among others the mining “will not result in unacceptable pollution, ecological degradation or damage to the environment”.

Unless an Environmental Authorisation can be granted following the evaluation of an Environmental Impact Assessment (EIA) and an Environmental Management Programme report (EMPr) in terms of the National Environmental Management Act (Act 107 of 1998) (NEMA), it cannot be concluded that the said activities will not result in unacceptable pollution, ecological degradation or damage to the environment.

In terms of section 16(3) (b) of the EIA Regulations, 2014, any report submitted as part of an application must be prepared in a format that may be determined by the Competent Authority and in terms of section 17 (1) (c) the Competent Authority must check whether the application has taken into account any minimum requirements applicable or instructions or guidance provided by the Competent Authority to the submission of applications.

It is therefore an instruction that the prescribed reports required in respect of applications for an environmental authorisation for listed activities triggered by an application for a right or permit are submitted in the exact format of, and provide all the information required in terms of, this template. Furthermore please be advised that failure to submit the information required in the format provided in this template will be regarded as a failure to meet the requirements of the Regulation and will lead to the Environmental Authorisation being refused.

It is furthermore an instruction that the Environmental Assessment Practitioner must process and interpret his/her research and analysis and use the findings thereof to compile the information required herein. (Unprocessed supporting information may be attached as appendices). The EAP must ensure that the information required is placed correctly in the relevant sections of the Report, in the order, and under the provided headings as set out below, and ensure that the report is not cluttered with un-interpreted information and that it unambiguously represents the interpretation of the applicant.



OBJECTIVE OF THE SCOPING PROCESS

The objective of the scoping process is to, through a consultative process—

- a) Identify the relevant policies and legislation relevant to the activity;
 - b) Motivate the need and desirability of the proposed activity, including the need and desirability of the activity in the context of the preferred location;
 - c) Identify and confirm the preferred activity and technology alternative through an impact and risk assessment and ranking process;
 - d) identify and confirm the preferred site, through a detailed site selection process, which includes an impact and risk assessment process inclusive of cumulative impacts and a ranking process of all the identified alternatives focusing on the geographical, physical, biological, social, economic, and cultural aspects of the environment;
 - e) Identify the key issues to be addressed in the assessment phase;
 - f) agree on the level of assessment to be undertaken, including the methodology to be applied, the expertise required as well as the extent of further consultation to be undertaken to determine the impacts and risks the activity will impose on the preferred site through the life of the activity, including the nature, significance, consequence, extent, duration and probability of the impacts to inform the location of the development footprint within the preferred site; and
 - g) Identify suitable measures to avoid, manage, or mitigate identified impacts and to determine the extent of the residual risks that need to be managed and monitored.
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LIST OF ACRONYMS:

ACRONYM:	DESCRIPTION:
AEL	Air Quality License in terms of NEM:AQA
AMD	Acid Mine Drainage
ASTM	American Standard for Testing and Materials (followed by protocol number)
BA	Basic Assessment (process or report)
BID	Background Information Documents
BOCA	Burnt Out Coal Area
CARA	Conservation of Agricultural Resources Act (Act 43 of 1983) as amended
CBD	Central Business District
COP	Codes of Practice
DMR	Department of Mineral Resources
DWS	Department of Water Affairs and Sanitation
EA	Environmental Authorisation in terms of NEMA
EAP	Environmental Assessment Practitioner
ECA	Environmental Conservation Act (Act 73 of 1989) as amended
EIA	Environmental Impact Assessment (process or report)
EIA Regs.	Environmental Impact Assessment Regulation published under NEMA
EIS	Ecological Importance and Sensitivity
EMF	Environmental Management Framework
EMPr	Environmental Management Programme Report
GDP	Gross Domestic Product
GIS	Geographical Information Systems
GN	General Notice (issued under an Act, providing notice or information)
GNR	General Notice Regulation (issued under an Act, providing instruction)
I&AP	Interested and Affected Parties
IAIA SA	International Association of Impact Assessment South Africa
IDP	Integrated Development Plan
IWUL	Integrated Water Use Licence
IWULA	Integrated Water Use Licence Application
IWWMP	Integrated Water and Waste Management Plan
LED	Local Economic Development
MHSA	Mine Health and Safety Act (Act 29 of 1996) as amended
MPRDA	Mineral and Petroleum Resources Development Act (Act 28 of 2002) as amended
MR	Mining Right in terms of the MPRDA



ACRONYM:	DESCRIPTION:
MRA	Mining Right Application in terms of the MPRDA
NAEIS	National Atmospheric Emissions Inventory System
NEA	National Energy Act, Act 34 of 2008
NEM:AQA	National Environmental Management: Air Quality Act (act 59 of 2008) as amended
NEM:BA	National Environmental Management: Biodiversity Act (Act 10 of 2004) as amended
NEM:PAA	National Environmental Management: Protected Areas Act (Act 57 of 2003) as amended
NEM:WA	National Environmental Management: Waste Act (Act 39 of 2004) as amended
NEMA	National Environmental Management Act (Act 107 of 1998) as amended
NFEPA	National Freshwater Ecology Priority Areas
NHRA	National Heritage Resources Act (Act No. 25 of 1999) as amended
NPAES	National Protected Area Expansion Strategy
NWA	National Water Act (Act 35 of 1998) as amended
O&AM Area	Operations, Administration and Maintenance Area
PCD	Pollution Control Dam
PDA	Potential Development Area (in terms of the SDF)
PES	Present Ecological State (usually followed by category A-F)
PM10/5/2.5	Particulate Matter up to 10/5/2.5 micrometres
PPP	Public Participation Process
RoD	Record of Decision (for specific application)
RoM	Run of mine (in terms of coal that is extracted but not yet processed)
RWD	Return Water Dam
RWQO	Resource Water Quality Objectives
S&EIR	Scoping and Environmental Impact Reporting process
S&LP	Social and Labour Plan
SACNASP	South African Council for Natural Scientific Professions
SAHRA	South African Heritage Resource Agency
SAMRAD	South African Mineral Resources Administration System
SANBI	South African National Biodiversity Institute
SANS	South African National Standard (followed by standard number)
SASS5	South African Scoring System version 5 (in terms of aquatic invertebrate assessments)
SAWIS	South African Waste Information System
SDP	Spatial Development Plan
SEMA	Specific Environmental Management Acts
SOP	Standard Operating Procedure



ACRONYM: DESCRIPTION:

SPLUMA	Spatial Planning and Land Use Management Act (Act No.16 of 2013)
Stats SA	Statistics South Africa
TSF	Tailings Storage Facility
WMA	Water Management Area
WML	Waste Management Licence in terms of NEM:WA

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1 INTRODUCTION

Evander Gold Mines Limited (henceforth EGM) has been operational since 1958, and has an approved mining right and Environmental Management Programme report (EMPr) in terms of the Minerals and Petroleum Resources Development Act, Act 28 of 2002 (MPRDA).

The approved EMPr currently authorises the mining and processing of gold and associated activities at the mine's three (3) operational complexes (Kinross, Winkelhaak and Leslie/Bracken). In addition, the approved EMPr covers the re-processing of the Kinross Tailings Storage Facility (TSF) as part of the Evander Tailings Recycling Project. EGM intends to extend this project to re-process the Winkelhaak and Leslie/Bracken TSFs, ultimately consolidating them into one large TSF at the end of life of mine. This will require an expansion of the current Kinross TSF footprint. In addition a dedicated extraction and smelting plant will be established within the existing Kinross complex to handle additional tailings loads.

These operational changes will require authorisation in terms of the various environmental legislation. As such an application for Environmental Authorisation (EA) was submitted as per the requirements of the National Environmental Management Act, Act No. 107 of 1998 (NEMA) and the NEM: Waste Act, Act No. 59 of 2008 (NEM:WA); read together with the MPRDA.

South African Law requires that the environmental and social impacts associated with a proposed development be assessed to identify any potential negative and / or positive consequences as result thereof. Following which measures must be proposed to avoid or minimise these impacts. As the application relates to listed activities published in terms of GNR 983, 984, 985 and 921 a full Scoping and Environmental Impact Report (S&EIR) is required as well as an Environmental Management Plan report (EMPr).

This report constitutes the Scoping Report and is the first phase in the environmental authorisation process. The purpose of the Scoping Report is to identify key environmental issues for further investigation during the Environmental Impact Assessment (EIA) phase of the project; and to outline the plan of study / terms of reference for the preparation of the EIA and EMPr.

The mine will continue to operate in terms of its existing EMPr and only the additional activities requiring authorisation are detailed within this Scoping Report. No changes are proposed to the underground mine areas or access points.

2 CONTACT PERSON AND CORRESPONDENCE ADDRESS

2.1 Item 2(a)(i): Details of the EAP who prepared the report

Name of the Practitioner: Jane Kennard & Barbara Kasl

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2.2 Item 2(a)(ii): Expertise of the EAP

Expertise of the EAP:

- Jane Kennard holds a B.Sc. in Environmental Management & Botany, as well as certificates in Project Management and Carbon Footprint Analysis.
- Barbara Kasl holds a PhD in Animal, Plant and Environmental Sciences from the University of the Witwatersrand.

See Appendix 1 for a copy of the relevant CV's and proof of qualifications.

Summary of EAP's past experience:

Jane Kennard has been working in the environmental field for approximately 10 years; and is a member of IAIA SA, the International Association for Public Participation and the Environmental Law Society South Africa.

Barbara Kasl has been an environmental practitioner for over 10 years and is a registered professional with SACNASP as an ecologist and environmental scientist and a member of the South African Entomological Society.

Both have worked on mineral and environmental applications under the MPRDA and ECA and have been involved with various NEMA, NEM:WA and NEM:AQA applications since the inception of these various acts for various mines and industries. Please refer to Appendix 1 for a list of work experience and past projects.

3 PROJECT DESCRIPTION

3.1 Item 2(b): Description of the property

The approved mining right area covers a number of portions on various farms totalling some **31,783.0738 Hectares**. Please refer to Appendix 2 for a copy of the mining right and full list of properties included therein (Plan 1).

Table 1 and 2 below lists those properties affected by the activities relevant to this application only.

Table 1: Property details

Farm Name:	Winkelhaak 135 IS Leeuwspruit 134 IS Witkleifontein 131 IS Zandfontein 130 IS Grootspruit 279 IS Langverwacht 282 IS Leeuwpans 532 IR Rietkuil 531 IR Springbokdraai 277 IS
Application area (Ha)	5,288.75 Ha

Magisterial district:	Govan Mbeki Local (Gert Sibande District)
Distance and direction from nearest town	Situated within the town of Evander, Mpumalanga.
21 digit Surveyor General Code for each farm portion	TOIS0000000001350003 TOIS0000000001350003 TOIS0000000001350056 TOIS0000000001350084 TOIS0000000001350086 TOIS0000000001340000 TOIS0000000001310000 TOIS0000000001310001 TOIS0000000001310002 TOIS0000000001310003 TOIS0000000001310004 TOIS0000000001300002 TOIS0000000001300003 TOIS0000000001300005 TOIS0000000001300008 TOIS0000000001300009 TOIS0000000002790000 TOIS0000000002820002 TOIR0000000005320012 TOIR0000000005320013 TOIR0000000005310000 TOIS0000000002770001

3.2 Land tenure

The overall area is one of industry, power generation (Secunda) and mining. The majority of the surrounds are utilised for agricultural purposes, largely pasture lands for grazing with some cultivation. The proposed additional plant will be established within the existing Kinross complex and only the expansion of the Kinross TSF will affect such pasture land.

The site is accessed by the N17 national road and R546 provincial road with many urban roads associated with Evander and Secunda. The main railway line services the general area.

In addition to the mine shafts around the area, various servitudes for pipelines, sewage lines and powerlines traverse the area in general.

Table 2 lists the current surface right holder of the properties affected by this application.

Table 2: Surface right holders of properties affected by this application

Property	Portion	Extent	Registered Owner(s)	Activity / infrastructure proposed
Winkelhaak 135 IS	RE3	452.3688 Ha	M.Wienand, Els and Roets	Kinross TSF Expansion. Water and/or slimes reticulation pipelines. Existing footprint of Winkelhaak TSF.
Winkelhaak 135 IS	13	303.0025 Ha	Evander Gold Mining (Pty) Ltd	Water and/or slimes reticulation pipelines. Existing footprint of Winkelhaak TSF.
Winkelhaak 135 IS	56	98.6219 Ha	Evander Township Ltd	Kinross TSF Expansion.
Winkelhaak 135 IS	84	22.2698 Ha	Evander Gold Mining (Pty) Ltd	Existing Kinross TSF, new plant and pump house. Water and/or slimes reticulation pipelines.
Winkelhaak 135 IS	86	213.2237 Ha	Evander Gold Mining (Pty) Ltd	Existing Kinross TSF. Water and/or slimes reticulation pipelines.
Leeuwspruit 134 IS	RE0	530.9998 Ha	Evander Gold Mining (Pty) Ltd	Water and/or slimes reticulation pipelines. Kinross TSF and expansion, existing RWD.
Witkleifontein 131 IS	RE0	241.2936Ha	Evander Gold Mining (Pty) Ltd	Water and/or slimes reticulation pipelines. Kinross TSF expansion and RWD(s).
Witkleifontein 131 IS	1	342.6128 Ha	Sakhisizwe Communal Property Association	Water and/or slimes reticulation pipelines. Kinross TSF expansion and RWD(s).
Witkleifontein 131 IS	2	40.8132 Ha	Evander Gold Mining (Pty) Ltd	Water and/or slimes reticulation pipelines, pump house. Existing footprint of Leslie/Bracken TSF.
Witkleifontein 131 IS	RE 3	234.6356 Ha	Evander Gold Mining (Pty) Ltd	Water and/or slimes reticulation pipelines. Existing footprint of

Property	Portion	Extent	Registered Owner(s)	Activity / infrastructure proposed
				Leslie/Bracken TSF.
Witkleifontein 131 IS	RE 4	224.8468 Ha	Evander Gold Mining (Pty) Ltd	Water and/or slimes reticulation pipelines. Kinross TSF expansion and RWD(s).
Zandfontein 130 IS	2	182.9964 Ha	Brendan Village cc	Water and/or slimes reticulation. Existing footprint of Leslie/Bracken TSF.
Zandfontein 130 IS	3	151.1718 Ha	Evander Gold Mining (Pty) Ltd	Water reticulation pipelines.
Zandfontein 130 IS	5	271.6105 Ha	Brendan Village cc	Water reticulation pipelines.
Zandfontein 130 IS	8	186.7673Ha	Evander Gold Mining (Pty) Ltd	Existing footprint of Leslie/Bracken TSF.
Zandfontein 130 IS	9	186.7673 Ha	Evander Gold Mining (Pty) Ltd	Existing footprint of Leslie/Bracken TSF.
Grootspruit 279 IS	RE0	184.2244Ha	Evander Gold Mining (Pty) Ltd	Existing footprint of Leslie/Bracken TSF.
Langverwacht 282 IS	2	71.6538 Ha	Evander Gold Mining (Pty) Ltd	Existing footprint of Leslie/Bracken TSF.
Leeuwpaan 532 IR	12	96.7497 Ha	HB Louwrens Trust	Water reticulation pipelines.
Leeuwpaan 532 IR	13	182.4008 Ha	HB Louwrens Trust	Water reticulation pipelines.
Rietkuil 531 IR	RE0	1017.3430 Ha	PF Louwrens Trust	Water reticulation pipelines.
Springbokdraai 277 IS	1	285.2682 Ha	R.T. du Preez	Water reticulation pipelines.
		5 334.874 Ha		

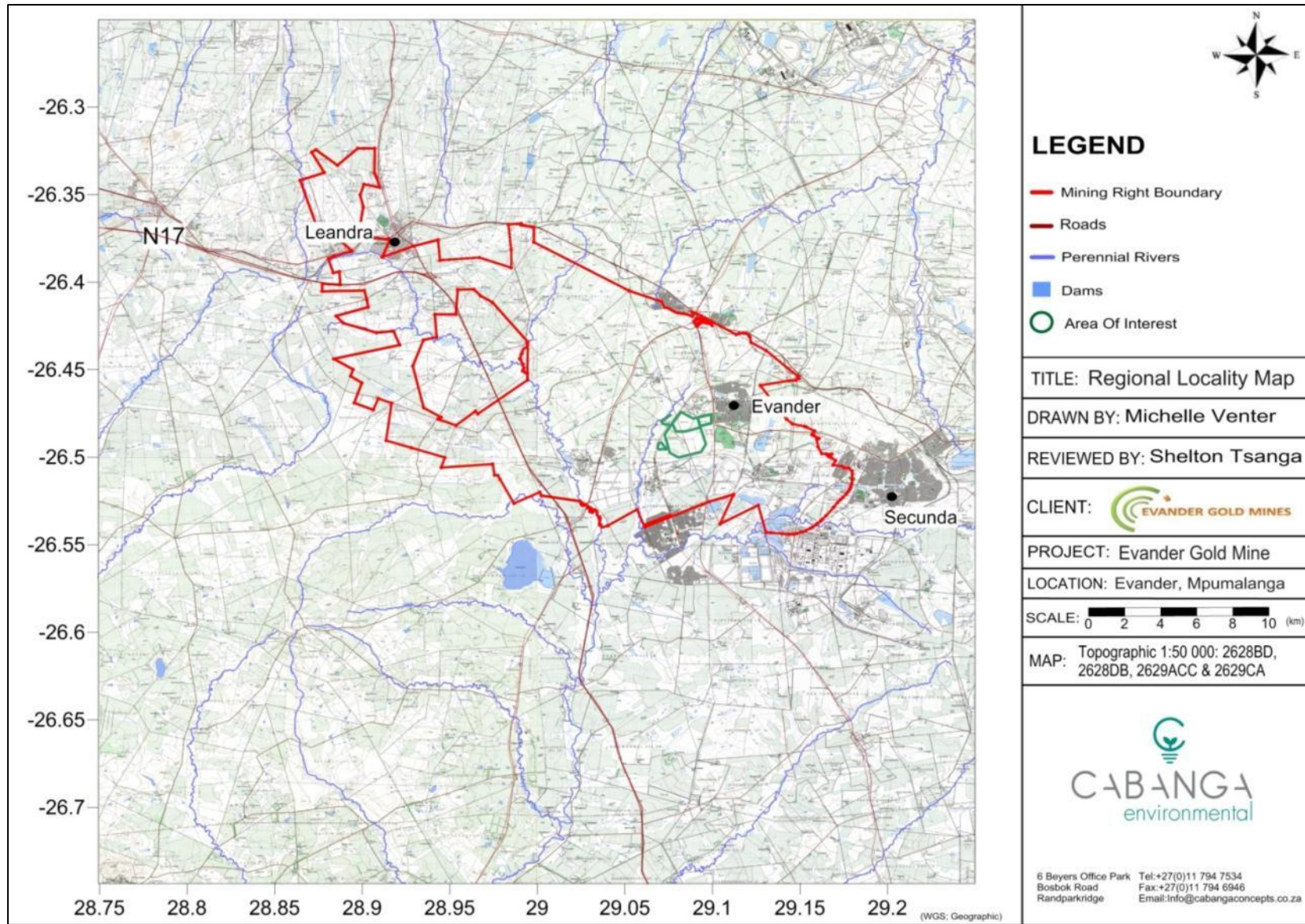
3.3 Location of site

The proposed project area is located in Evander within the Gert Sibande District Municipality, specifically the Govan Mbeki Local Municipality in the Mpumalanga Province.

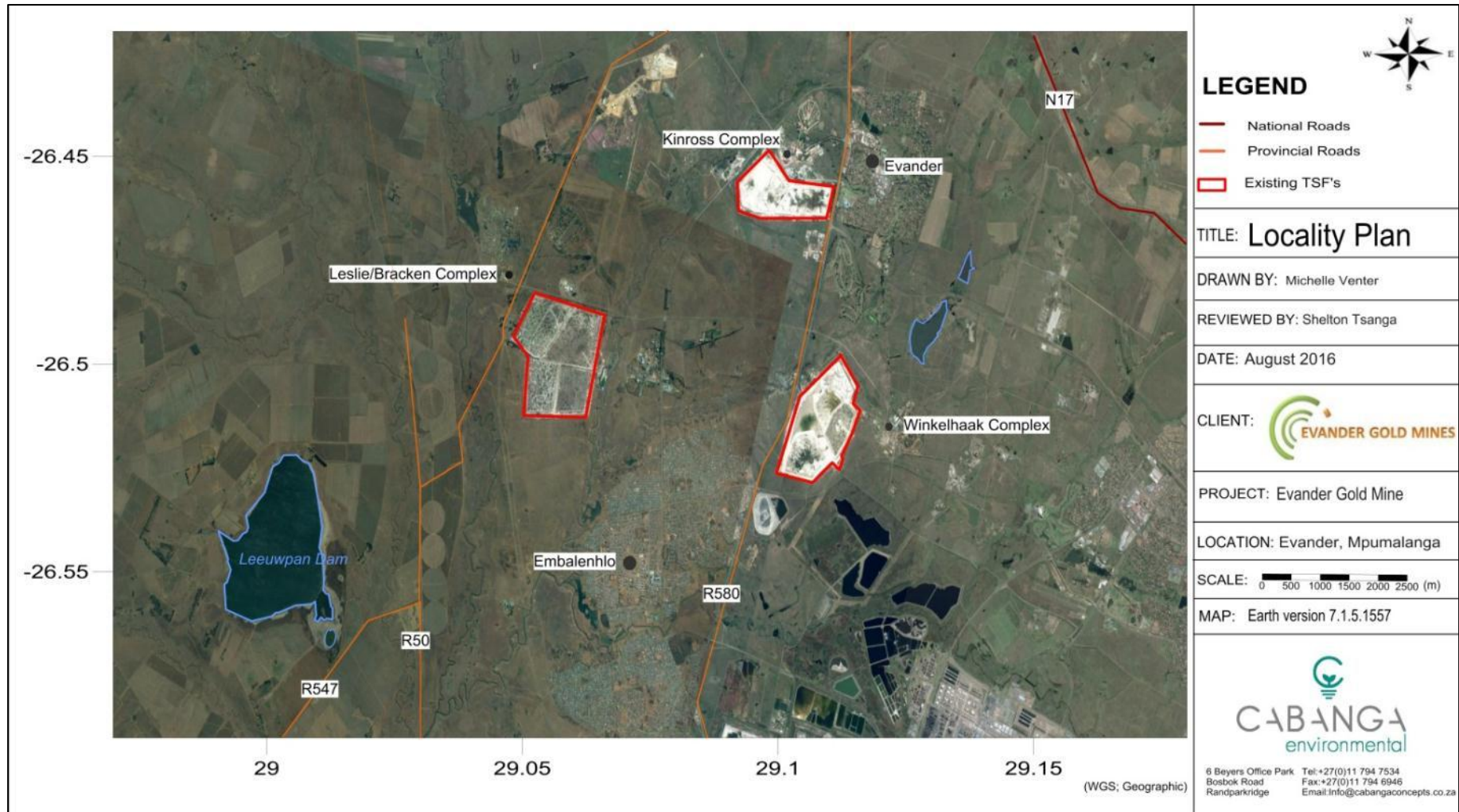
3.4 Item 2(c): Locality Map

The regional and local settings are depicted in Plans 1 and 2 below.

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Plan 1: Regional Setting



Plan 2: Local Setting

3.5 Item 2(d): Description of the proposed overall activity

EGM intends to extend the Evander Tailings Recycling Project to re-process the Winkelhaak and Leslie/Bracken TSFs, ultimately consolidating them into one large TSF at the end of life of mine. In addition a dedicated extraction and smelting plant will be established within the Kinross complex to handle additional tailings loads, this will include associated infrastructure such as pumps, pipelines, process dams etc.

3.5.1 Item 2(d)(i): Listed and specified activities

Table 3 details the main scheduled and ancillary activities proposed for the project. The proposed infrastructure layout is indicated in Plans 3 - 6 included in Appendix 3. Note alternative layouts are currently being considered for the TSF expansion.

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Table 3: Listed and specified activities

Name of activity	Aerial extent of the activity Ha or m ²	Listed Activity	Applicable listing notice	Waste management authorisation
Topsoil stripping & stockpiling (including the clearing of vegetation)	±210 Ha	Activity 12 Activity 19 Activity 30 - assumed at this stage Activity 15	GNR 983 GNR 983 GNR 983 GNR 984	
Diesel Storage	80m ³	Activity 4	GNR 984	
Processing Plant and Associated Infrastructure	10 Ha	Activity 34 Activity 2	GNR 983 GNR 985	Category B, Activity 3 Category B, Activity 10
Slurry and water reticulation pipelines	±15kms	Activity 9 Activity 10	GNR 983 GNR 983	
Re-processing and rehabilitation of existing TSFs	570Ha			Category A, Activity 14 Category B, Activity 10 Category B, Activity 11
Expansion of Kinross TSF (mine residue)	±210 Ha	Activity 12 Activity 19 Activity 34	GNR 983 GNR 983 GNR 983	Category A, Activity 13 Category B, Activity 7 Category B, Activity 11
Return Water Dams	30 Ha	Activity 12	GNR 983	

Name of activity	Aerial extent of the activity Ha or m ²	Listed Activity	Applicable listing notice	Waste management authorisation
		Activity 13 Activity 19 Activity 34	GNR 983 GNR 983 GNR 983	
Chemical / Reagent Storage	±905m ³	Activity 4	GNR 984	

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3.5.2 Item 2(d)(ii): Description of the activities to be undertaken

The mine will continue to operate in terms of its existing EMP and only the additional activities covered within this application for environmental authorisation (EA) are detailed within this Scoping Report. No changes are proposed to the underground mine areas or access points.

The following is relevant to the operational changes associated with this project:

- In addition to the existing and approved reprocessing of the Kinross TSF, Evander also wish to reprocess the Winkelhaak and Leslie/Bracken TSFs at a rate of 1 million tons per month (via hydraulic methods). Ultimately consolidating the three TSFs into one large TSF and rehabilitating the Winkelhaak and Leslie/Bracken footprints.

Additional services and infrastructure associated with the proposed project include:

- Elikhulu Plant:
 - The installation of a second plant (referred to as the "Elikhulu Plant") to handle the additional tonnages:
 - A Carbon in Leach (CIL) plant, including smelt house to be constructed at the existing Kinross Complex within the mine's dirty footprint area.
 - Additional storage of Cyanide, Hydrogen Chloride and Caustic will be required.
- Tailings Storage Facility (TSF):
 - A new TSF will be required to receive the tailings from the Elikhulu Plant. Currently the preferred option is to design the new TSF as an extension to the existing Kinross TSF.
 - A penstock pipeline will run underneath the TSF to drain water into a return water dam (RWD).
 - The sites of the Winkelhaak and Leslie TSFs will be decommissioned and rehabilitated.
- Slurry reticulation:
 - Pump and piping systems will be constructed to transfer slurry to the Elikhulu plant (at a rate of ± 595 litres/second). This will include the construction of a new pump station at each of the existing TSFs, as well as the installation of new pipelines within existing servitudes as far as possible.
- Water supply:
 - Water for the project will be sourced from the mine's evaporation dam, known as the Leeuwpan Dam, as well as from the mine's underground workings and recycled from the RWD.
 - Water will be piped to each of the reclamation sites as well to the Elikhulu plant at a rate of ± 165 litres/second. New pipelines will be installed however these will be located within existing servitudes as far as possible.
 - A 15,000m³ reservoir will be constructed at the Elikhulu plant area to facilitate plant water feed.
 - A pump station will be constructed at the Leeuwpan Dam.
- Power supply:
 - Power will be supplied by Eskom, by means of existing substations.
 - Additional overhead lines may be required however, these will remain under 33kV.

- Waste management:
 - Waste tailings from the plant will be placed onto the Kinross TSF and its proposed expansion.
 - Domestic, industrial and hazardous wastes generated at the Elikhulu plant will be separate, handled and disposed of accordingly.
 - A modular sewage treatment plant will be installed at the Elikhulu plant area. The plant will be designed with a throughput capacity of 4500 litres / day.
- Employment requirements:
 - During construction some 300 – 600 temporary jobs will be created.
 - During operations approximately 150 permanent jobs will be created.

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4 ITEM 2(e): POLICY AND LEGISLATIVE CONTEXT

Table 4 outlines the legislation and guidelines that are considered to be applicable to the proposed project; and which were considered at the time of compiling this report

Table 4: Applicable legislation and guidelines

APPLICABLE LEGISLATION AND GUIDELINES USED TO COMPILE THE REPORT	REFERENCE WHERE APPLIED
Acts and Associated Regulations Pertaining to Mining and Environment	
<p><u>The Constitution of South Africa, 1996 (Act 108 of 1996)</u></p> <p>Section 24: Everyone has the right to an environment that is not harmful to their health or well-being.</p> <p>Section 32: Every person has a right to information held by the State and to information held by other people that is required in the exercise or protection of a right.</p> <p>Section 33: Everyone has a right to just and procedurally fair administrative action.</p>	<p>Alternative activities (Section 7.1) have been considered that are less taxing on the environment.</p> <p>All reports will be made available for public review as per the PPP section (Section 8) of this report.</p> <p>The Appeal Process will be described to I&APs through RoD notification (Section 11.6.2).</p>
<p><u>Minerals and Petroleum Resources Development Act (MPRDA), Act No. 28 of 2002 as amended and associated regulations.</u></p> <p>The MPRDA and its Regulations (MPRDA Regulation GNR527, 23 April 2004 as amended by: GNR R1288 dated 29 October 2004; GNR1203 dated 30 November 2006; and GNR349 dated 18 April 2011).</p> <p>Regulations pertaining to living conditions of employees and contractors (Government Notice 445 in Government Gazette 32166 dated 29 April 2009).</p> <p>Regulations pertaining to codes of conduct (Government Notice No. 446 in Government Gazette 32167 dated 29 April 2009).</p>	<p>The application is being submitted via SAMRAD. An application in terms of S102 was submitted in terms of the Act to amend the existing EMP / EA.</p> <p>Due to the proximity of the mine to urban areas staff and contractors will have off-site accommodations.</p> <p>Mine will incorporate these into their codes of conduct for staff and contractors.</p>
<p><u>Mine Health and Safety Act (MHSA), Act 29 of 1996 as amended and its associated regulations:</u></p> <p>MHSA and associated regulations pertaining to creating a safe and healthy work</p>	<p>Although not strictly addressed in the Scoping Report or EMP, r,</p>

APPLICABLE LEGISLATION AND GUIDELINES USED TO COMPILE THE REPORT	REFERENCE WHERE APPLIED
<p>environment, proper handling of hazardous substances and explosives, the monitoring and control of environmental aspects which may affect the health and safety of persons, and provision of water, ablution facilities and staff health and safety.</p>	<p>protecting the environment through implementation of the EMPr contributes to a safe working environment.</p> <p>MHSA regulations will be worked into the mine's Code of Practice (COP) and Standard Operating Procedures (SOPs).</p>
<p><u>National Environmental Management Act (NEMA), Act 107 of 1998 as amended and its associated regulations:</u></p> <p>NEMA and its Regulations (GNR982 – EIA Regulations; NEMA Regulation GNR983 – Listing Notice 1; NEMA Regulation GNR984 – Listing Notice 2; and NEMA Regulation GNR985 – Listing Notice 3).</p> <p>NEMA and its Regulations (GNR807 – PPP guideline) were followed in terms of Public Participation Process (PPP).</p> <p>NEMA Regulations pertaining to the financial provision for prospecting, exploration, mining or production activities (GNR1147 –20 November 2015).</p>	<p>Regulations utilised to determine the scheduled activities (Table 3) and environmental authorisation process and reports. The closure plan will be finalised and submitted once application for a closure certificate is made. Annual audits required will be incorporated into the EMPr monitoring plan.</p> <p>PPP completed in terms of the regulation (Section 8).</p> <p>Will be incorporated into the EMPr.</p>
<p><u>National Environmental Management: Waste Act (NEM:WA), Act 59 of 2008 as amended and its associated regulations.</u></p> <p>National Waste Information Regulation (GNR625, August 2012).</p> <p>The regulations and various addendums pertaining to scheduled waste activities (GNR921, November 2013).</p> <p>Regulation on planning and management of residue stockpiles (GNR632, July 2015).</p> <p>The National Waste Information Regulation (GNR625, August 2012).</p>	<p>Mine residues defined and handled accordingly. In terms of this application, non-carbonaceous rock and soils are considered inert as stipulated in Annexure 1.</p> <p>Used to determine the scheduled activities requiring a Waste Management License (WML) (Table 3).</p> <p>Will be incorporated into the engineered designs and SOPs.</p> <p>Registering and reporting to the South African Waste Information System (SAWIS) will be included in the EMPr if</p>

APPLICABLE LEGISLATION AND GUIDELINES USED TO COMPILE THE REPORT	REFERENCE WHERE APPLIED
<p>The Waste Classification and Management Regulations (GNR634, August 2013) will be Waste assessed in terms of GNR635, August 2013 for Assessment of Waste for Landfill and will determine the type of barrier system that would be required as stipulated in GNR636, August 2013.</p> <p>Norms and standards for the storage of waste on site as per GNR926, November 2013.</p>	<p>deemed necessary.</p> <p>Complied with in terms of classification of relevant waste (non-hazardous, hazardous and general waste) and waste manifest systems to be detailed in the EMPr.</p> <p>This will be incorporated, where relevant, into the EMPr.</p> <p>The waste management plan in the EMPr will consider this where relevant.</p>
<p><u>National Water Act (NWA), Act 36 of 1998 as amended and its associated regulations.</u></p> <p>The water use licence application (IWULA) will be completed in terms of the draft Regulation GN126, February 2015.</p> <p>GNR704 will be utilised to develop the storm water management plan and where needed, the relevant exemptions will be applied for with the IWULA.</p>	<p>EGM has contracted consultants to complete the IWULA and Integrated Water and Waste Management Plan (IWWMP) - compiled as per the 2010 IWWMP guidelines and any other instruction received from Department of Water Affairs and Sanitation (DWS).</p> <p>This will be incorporated into the management plan of the EMPr and designs where applicable.</p>
<p><u>National Environmental Management: Biodiversity Act (NEM:BA), Act 10 OF 2004 as amended and its regulations, including various regulations pertaining to protected species and to alien and invasive species.</u></p> <p>SANBI website and GIS tools were utilised to determine whether any nationally protected and threatened ecosystems occur on site.</p>	<p>Regulations utilised to determine the need for any listed scheduled activities under GNR 985 (Table 3).</p> <p>Applications will be made as per NEM:BA should any species of environmental concern be highlighted within areas targeted for surface disturbance.</p> <p>The alien invasive management system will consider the listed alien and invasive species published under NEM:BA as well as CARA and preliminary plan included in the EMPr.</p>

APPLICABLE LEGISLATION AND GUIDELINES USED TO COMPILE THE REPORT	REFERENCE WHERE APPLIED
<p><u>National Environmental Management: Air Quality Act (NEM:AQA), Act 39 of 2004 as amended and its associated regulations.</u></p> <p>GNR893, November 2013 regarding Scheduled Listed Activities.</p> <p>Mines are listed as Group C emitters (GNR283, April 2015). The dust monitoring will be conducted and measured against the dust fallout rates published in GNR827, November 2013.</p> <p>As a Group C controlled emitter, the mine will be required to register and report to the National Atmospheric Emissions Inventory System (NAEIS) as per GNR283 and GNR284, April 2015.</p> <p>Regulations (GN541, July 2015) pertaining to greenhouse gas emissions reporting will be applied on site, if relevant, once the regulations are promulgated.</p>	<p>NEM:AQA will be considered to determine whether an AEL is required for the project based on the final project description and layout.</p> <p>Dust monitoring will be incorporated into the monitoring plan of the EMPr report.</p> <p>EGM will register and report on NAEIS. This will be incorporated into the EMPr.</p> <p>Draft regulation will be applied once promulgated if relevant.</p>
<p><u>National Environmental Management: Protected Areas Act (NEMPAA), Act 57 of 2003 as amended and its associated regulations.</u></p> <p>SANBI website and GIS tools were utilised to determine occurrence of protected areas around site.</p>	<p>Regulations utilised to determine the need for any additional listed scheduled activities under GNR 985 (Table 3).</p>
<p><u>Conservation Of Agricultural Resources Act (CARA), Act 43 of 1983 and Regulation GNR 1048 relating to alien and invasive species.</u></p> <p>The alien invasive management system in conjunction with NEM:BA.</p>	<p>An initial management plan will be incorporated into the EMPr.</p>
<p><u>National Heritage Resources Act (NHRA), Act No. 25 of 1999</u></p> <p>A heritage impact assessment required for projects that involve a linear activity associated with the railway link of more than 300m, affects more than 5 000m²; and requires re-zoning of a site of more than 10 00m².</p>	<p>A heritage impact assessment was completed for the project area in the past. This information will be incorporated in the EIA and EMPr.</p>

APPLICABLE LEGISLATION AND GUIDELINES USED TO COMPILE THE REPORT	REFERENCE WHERE APPLIED
Legislation not listed as a Specific Environmental Management Act (SEMA): May have implications on the environment	
<p><u>Spatial Planning and Land Use Management Act (SPLUMA), Act No.16 of 2013, Promulgated 1 July 2015.</u></p> <p>The Act and Regulations feed into the DRAFT Listing Notice 4 (GN737, August 2014) activities under NEMA and may result in amendment to application process depending on the transitional arrangements provided for in the notice once promulgated.</p> <p>Land use schemes must be implemented within 5 years of the promulgation of the Act and will stipulate land use and development rights over targeted land.</p>	<p>Draft regulation which will be applied depending on final requirements.</p>
<p><u>Hazardous Substances Act, Act No. 15 of 1973</u></p>	<p>Hazardous substances handling on site will comply with the prescription of the Act and general practices will be included in EMPr.</p>
Guidelines and Standards	
<p><u>South African National Standard: SANS 10234:2008 - Globally Harmonized System of classification and labelling of chemicals (GHS).</u></p> <p>The SANS standard is specifically referred to in GNR634, August 2013 for waste classification and forms the basis for classification of relevant waste on site.</p>	<p>Used to determine thresholds and guide the management plan which will be incorporated into the EMPr.</p>
<p><u>ASTM D1739, 1970 or equivalent approved protocol for dust monitoring.</u></p> <p>Sets the requirements for dust monitoring as specifically stipulated in GNR827 of November 2013.</p>	<p>Used to determine thresholds and guide the management plan which will be incorporated into the EMPr.</p>
<p><u>South African National Standard: SANS 10228:2006 - The identification and classification of dangerous goods for transport</u></p> <p>The standard was consulted to determine which substances on site classified as dangerous goods in terms of the specific NEMA activities relating to storage of</p>	<p>Used to determine thresholds and guide the management plan which will be incorporated into the EMPr.</p>

APPLICABLE LEGISLATION AND GUIDELINES USED TO COMPILE THE REPORT	REFERENCE WHERE APPLIED
<p>dangerous goods on site.</p>	
<p><u>South African National Standard: SANS 241-1:2011 – Drinking Water Specification: Physical, aesthetic, operational and chemical & microbial determinants.</u></p> <p>SANS standard will be utilised for comparative purposes to determine the quality of water at site. Where Resource Water Quality Objectives (RWQOs) are provided by DWS, then these will also be utilised for comparative purposes.</p>	<p>Used to determine thresholds and guide the management plan which will be incorporated into the EMPr.</p> <p>Bacterial counts will in future also be compared to SANS standards.</p>
<p><u>South African Biodiversity Institute website for various GIS tools including:</u></p> <p>Soil types; Vegetation types; Biomes; Threatened ecosystems; Water management area; FEPA wetlands; and Landcover.</p>	<p>Used to guide the application requirements and provide desktop information (Section 9)</p>

5 ITEM 2(f): NEED AND DESIRABILITY OF THE PROPOSED ACTIVITIES

The overall objective of the project is to recover residual gold from the tailings within the three existing TSFs. The slurry/tailings from the re-processing plant (the Elikhulu Plant) will be deposited onto the new TSF immediately to the south of the existing Kinross TSF and then ultimately onto the existing Kinross TSF footprint as re-mining progresses. Thus, allowing for the rehabilitation of the land currently occupied by the Winkelhaak and Leslie/Bracken TSFs.

There will be some positive impact with the removal of the two smaller TSFs, and the development of one overall TSF, as the impact source will be from a single facility rather than three separate TSFs. This will also make management implementation easier in the long term as only a single TSF needs to be monitored and maintained through closure.

The project will contribute directly and indirectly to the Country's GDP, as well as provide employment to members of the surrounding communities:

- During construction some 300 – 600 temporary jobs will be created.
- During operations approximately 150 permanent jobs will be created

The listed activities requiring authorisation are for the construction of infrastructure associated with the new TSF and plant, as well as site clearance associated with the new TSF. The infrastructure is required for the overall implementation of the project and will ensure the efficient and successful management thereof.

6 ITEM 2(g): PERIOD FOR WHICH THE ENVIRONMENTAL AUTHORISATION IS REQUIRED

The project life is estimated at 14 years, with 1 year estimated for construction and 3 years for decommissioning and closure. Thus the EA is being sought for a period of 18 years.

7 ITEM 2(h): DESCRIPTION OF THE PROCESS FOLLOWED TO REACH THE PROPOSED PREFERRED SITE

7.1 Item 2(i): Details of alternatives considered

7.1.1 The property on which or location where it is proposed to undertake the activity;

SLR Consulting (SA) Pty (Ltd) were contracted to undertake a site alternatives assessment for the proposed project (SLR, 2016). Potential sites were identified based on distance to the Kinross Complex; topography; land use; whether the area had been undermined in the past and if so were the safety factors sufficient.

Four sites were initially identified by EGM (Alternatives 1 to 4); and a further three sites (Burnt out Coal Areas) were proposed by Sasol (Table 5 and Plan 3 of Appendix 3).

Table 5: Explanation of sites considered

Site	Description
Alternative 1	Kinross TSF - Initially immediately to the south of Kinross and then utilisation of Kinross TSF as re-mining of the TSF progresses
Alternative 2	West south west of Kinross (situated outside the mining right area)
Alternative 3	West of Kinross (situated outside the mining right area)
Alternative 4	West north west of Kinross (situated outside the mining right area)
Burnt Out Coal Area 1	Most eastern area (out of the three)
Burnt Out Coal Area 2	Relatively central area (out of the three)
Burnt Out Coal Area 3	Most western area (out of the three)

The sites were then assessed in terms of:

- Environmental concerns;
- Geometric capacity for the site (i.e. is each site able to contain the required total tonnage, at the necessary deposition rates?); and
- Cost implications.

7.1.2 The type of activity to be undertaken;

Activities applicable to the expansion of the Kinross Tailings Recycling project include the reprocessing of the Winkelhaak and Leslie/Bracken TSFs at a rate of 1 million tons per month. Ultimately consolidating the three TSFs into one large TSF and rehabilitating the Winkelhaak and Leslie/Bracken footprints.

This will entail the installation of a second plant, new TSF, RWD, water and slurry reticulation facilities (pumps and pipelines) and associated infrastructure. This infrastructure is needed in terms of the overall design and no further alternatives are discussed in terms of these. Best practices in the industry and, where applicable, SANS standards and legislative requirements will be followed in design, construction and management of infrastructure and activities on site.

7.1.3 The design or layout of the activity;

The routes of the various pipelines required for slimes and water reticulation are limited to existing servitude routes registered in favour of EGM, as such the layout of these have not been considered further.

Three layout alternatives are currently being considered for the new TSF (Kinross expansion), namely 1A, 1B and 1C as indicated in Plan 4 of Appendix 3. Overall Option 1C has the greatest capacity and is considered the preferred alternative.

The position of the Return Water Dams (RWDs) are limited due to topography and land availability. These have been positioned in relation to the TSF to allow water decanting from the TSF to be gravity fed by penstock systems into the RWDs, as such the layout of these has not been considered further.

7.1.4 The technology to be used in the activity;

EGM believe that it has implemented the best available technology that is cost effective for this specific project. Best practices as utilised in the industry have been selected and, where applicable, SANS standards and legislative requirements will be followed in design, construction and management of infrastructure and activities on site. Technological alternatives have therefore not been further assessed.

7.1.5 The operational aspects of the activity; and

In all instances, common practices as utilised in the industry have been selected. Operational alternatives that are being considered include:

- Electrical furnaces and heaters vs. diesel driven furnaces and heaters;
- The use of liquid cyanide vs. solid cyanide; and
- The installation of an incinerator for waste management.

7.1.6 The option of not implementing the activity

EGM will continue with the current operations as per the approved EMPr and the three TSFs will continue to be managed individually. The gold reserves remaining within these will not be realised.

The no-go option would also prevent the socio-economic benefits, including the need for job creation, increased socio-economic activity and social upliftment.

The vacant but disturbed land adjacent to the Kinross TSF will remain in its current state, with no immediate or direct benefits to society.

8 ITEM 2(ii): DETAILS OF THE PUBLIC PARTICIPATION PROCESS FOLLOWED

The public participation process (PPP) aims to involve the authorities and I&APs in the project process, and determines their needs, expectations and perceptions which in turn ensures a complete and comprehensive environmental study. An open and transparent process has and will be followed at all times and will be based on reciprocal dissemination of information.

The table below highlights the requirements for public participation as per NEMA. Details of the PPP which are currently available have been included; however please note this section of the report will be updated after the first round of consultation.

Table 6: NEMA minimum PPP requirements

Legal and Regulatory Requirement: NEMA Regulation 982, Section 41 – Public participation process	
1	This regulation only applies in instances where adherence to the provisions of this regulation is specifically required
Noted	
2	The person conducting a public participation process must take into account any relevant guidelines applicable to public participation as contemplated in section 24J of the Act and must give notice to all potential interested and affected parties of an application or proposed application which is subjected to public participation b:
NEMA PPP Guidelines have been followed.	
a	fixing a notice board at a place conspicuous to and accessible by the public at the boundary, on the fence or along the corridor of:
i	the site where the activity to which the application or proposed application relates is or is to be undertaken
ii	An alternative site
<p>Notices were compiled in English, Afrikaans & Zulu and erected (3 October 2016) on the site boundary fence as well as other public locations, namely:</p> <ul style="list-style-type: none"> • Govan Mbeki Local Municipality; • Evander Magistrates Court; • Evander Library; • Evander Post Office; • Evander High School; and • Shoprite. <p>These posters informed the public of the proposed activities, invited (I&APs) to attend the scoping phase public meeting and requested people to register as I&APs for the project. Copies of the Posters have been included in Appendix 4.</p>	
b	giving written notice, in any of the manners provided for in section 47D of the Act, to:
i	the occupiers of the site and, if the proponent or applicant is not the owner or person in control of the site on which the activity is to be undertaken, the owner or person in control of the site where the activity is or is to be undertaken or to any alternative site where the activity is to be undertaken;
ii	owners, persons in control of, and occupiers of land adjacent to the site where the activity is or is to be undertaken or to any alternative site where the activity is to be undertaken;
iii	the municipal councillor of the ward in which the site or alternative site is situated and any organisation of ratepayers that represent the community in the area;
iv	the municipality which has jurisdiction in the area;

Legal and Regulatory Requirement: NEMA Regulation 982, Section 41 – Public participation process

v	any organ of state having jurisdiction in respect of any aspect of the activity; and
vi	any other party as required by the Competent Authority.
<p>A database / I&AP register was compiled, this included various stakeholders, authorities, land owners, land users and associations within the area.</p> <p>Background Information Documents (BIDs) detailing the project were compiled in English, Afrikaans and Zulu. These were hand delivered to land owners / users and adjacent land owners / users between the 3rd and 4th October 2016.</p> <p>The purpose of the BID was to:</p> <ul style="list-style-type: none"> • Invite members of the public to register as I&APs; • Introduce the proposed project, and inform the public on the application / environmental process and their involvement; • Provide information on the proposed impacts the development may have on the environment which will be investigated further; • Initiate a process of public consultation to record perceptions and issues; and • Invite I&APs to attend the Scoping Phase Public Meeting. <p>A copy of the BID(s) is attached as Appendix 4.</p>	
c	Placing an advertisement in:
i	One local newspaper; or
ii	Any official Gazette that is published specifically for the purpose of providing public notice of applications or other submissions made in terms of these Regulations.
d	placing an advertisement in at least one provincial newspaper or national newspaper, if the activity has or may have an impact that extends beyond the boundaries of the metropolitan or district municipality in which it is or will be undertaken: Provided that this paragraph need not be complied with if an advertisement has been placed in an official Gazette referred to in paragraph (c)(ii)
<p>Advertisements were placed in two (2) local newspapers, in both English and Afrikaans:</p> <ul style="list-style-type: none"> • The Ridge Times, publication date 30 September 2016 • The Echo, publication date 30 September 2016 <p>Copies of the Adverts are attached in Appendix 4.</p>	
e	Using reasonable alternative methods, as agreed to by the competent authority, in those instances where a person is desirous of but unable to participate in the process due to- (i) illiteracy; (ii) disability; or (iii) any other disadvantage.
<p>No issues in information dissemination have been noted to date. Any additional requirements made by the authorities will be applied during the PPP process.</p>	
3	A notice, notice board or advertisement referred to in sub regulation (2) must –
a	Give details of the application which is subject to public participation
b	State -
i	whether basic assessment or S&EIR procedures are being applied to the application
ii	Whether basic assessment or scoping procedures are being applied to the application, in the case of an application for environmental authorisation
iii	The nature and location of the activity to which the application relates
iv	Where further information on the application or activity can be obtained
v	The manner in which and the person to whom representations in respect of the application may be made
<p>These aspects are addressed in the BIDs, Notices and Adverts. Please see the relevant appendices</p>	

Legal and Regulatory Requirement: NEMA Regulation 982, Section 41 – Public participation process

included as Appendix 4.

4	A notice board referred to in sub regulation (2) must -
a	be of a size at least 60cm by 42 cm
b	Display the required information in lettering and in a format as may be determined by the Competent Authority

Notices were A2 in size (42 x 60 cm).

5	Where public participation is conducted in terms of this regulation for an application or proposed application, sub regulation (2)(a), (b), (c) and (d) need not be complied with again during the additional public participation process contemplated in regulations 19(1)(b) or 23(1)(b) or the public participation process contemplated in regulation 21(2)(d), on condition that :-
a	such process has been preceded by a public participation process which included compliance with sub regulation (2)(a), (b), (c) and (d); and
b	written notice is given to registered interested and affected parties regarding where the: -
i	revised basic assessment report or, EMPr or closure plan, as contemplated in regulation 19(1)(b) may be obtained, the manner in which and the person to whom representations on these reports or plans may be made and the date on which such representations are due;
ii	revised environmental impact report or EMPr as contemplated in regulation 23(1)(b) may be obtained, the manner in which and the person to whom representations on these reports or plans may be made and the date on which such representations are due; or
iii	environmental impact report and EMPr as contemplated in regulation 21(2)(d) may be obtained, the manner in which and the person to whom representations on these reports or plans may be made and the date on which such representations are due;

Noted. No deviation required.

6	When complying with this regulation, the person conducting the public participation process must ensure that:
a	Information containing all the relevant facts in respect of the application is made available to potential interested and affected parties; and
b	Participation by potential interested and affected parties is facilitated in such a manner that all potential interested and affected parties are provided with a reasonable opportunity to comment on the application.

Noted.

All environmental reports will be made available for public review for a minimum of 30 days.

7	Where an environmental authorisation is required in terms of these Regulations and an authorisation, permit or licence is required in terms of a specific environmental management Act, the public participation process contemplated in this Chapter may be combined with any public participation processes prescribed in terms of a specific environmental management Act, on condition that all relevant authorities agree to such combination of processes.
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The PPP has been combined for all the authorisations required from the DMR in terms of the MPRDA, NEMA and NEM:WA. The notices have also included information on the water use license application process through the DWS under the NWA.

This section details the PPP initiated to date, and completed as part of the Scoping Phase of the project:

- I&AP Consultation:

The existing I&AP database for EGM was reviewed and updated with information and responses received from the press advertisements, notices and the BID's sent out.

The I&APs include a database of landowners, adjacent landowners, land users, communities, local authorities, ward councillors and other interest groups. A copy of the I&AP register is included in Appendix 4.

All comments, questions and/or concerns received in response to the various notices to date, have been summarised in the issues and response table below.

A Scoping Phase Public Meeting has been scheduled for the 19 October 2016 at the Evander Rec Club. The purpose of the meeting will be to introduce the project to I&APs; explain the application process to be followed; and to discuss the contents of the draft Scoping Report which at the time will be out for public review. All registered I&APs will be notified of the meeting through the BIDs, posters and adverts. In addition, a reminder SMS will be sent to all registered I&APs prior to the meeting. Copies of the minutes of the meeting will be circulated to all registered I&APs for review and comment. These will be appended to the final report for submission to the DMR.

The Draft Scoping Report has been made available to the public for review and comment over a period of thirty (30) days (from 4 October 2016) at the following locations:

- Online at www.cabangaconcepts.co.za;
- The Evander Public Library; and
- The EGM central offices.

All registered I&APs have been informed of the reports availability via e-mail, fax, post and SMS. In addition electronic copies (Adobe PDF and CD) will be made available to I&APs upon written request.

All comments and / or issues raised during the initial PPP meeting as well as during the review period of the draft Scoping Report will be included in the final Scoping Report for submission to the DMR.

- Authorities Consultation:

An introductory meeting was held with the DMR on the 29th August to discuss the potential listed activities and format of the application.

A pre-application meeting has been scheduled with the Department of Water Affairs and Sanitation (DWS) for the 7th October 2016, to discuss the project and to clarify the way forward with regards to the content and submission of the water use license application.

Other local and Regional authorities were identified and included in the I&AP register, and have been notified of the proposed project by means of the BID.

In addition, copies of the draft Scoping Report were circulated to the following authorities for review and comment:

- DMR;

- Mpumalanga Department of Economic Development, Environment and Tourism (MDEDET);
- DWS;
- Govan Mbeki Local Municipality;
- Gert Sibande District Municipality;
- South African Heritage Resource Agency (SAHRA); and
- Mpumalanga Tourism and Parks Board.

Comments (where received) will be included in the I&AP issues and response table of the final Scoping report for submission to the DMR.

The Land Claims Commissioner was contacted to determine whether any land claims have been registered over the affected properties. To date no response has been forthcoming.

8.1 Item 2(iii): Summary of issues raised by I&APs

Table 7 below summarises the issues raised by the various I&APs and authorities to date, and the EAP's response/feedback thereto.

Table 7: PPP Issues & Response Table

Interested and Affected Parties List the names of persons consulted in this column, and Mark with an X where those who must be consulted were in fact consulted.	Date Comments Received	Issues raised	EAP's response to issues as mandated by the applicant	Consultation Status (consensus dispute, not finalised, etc.)
AFFECTED PARTY				
Landowner/s	X			
No comments have been received to date. PPP currently underway. This table will be updated prior to submission to the DMR.				
Lawful occupier/s of the land	X			
Landowners or lawful occupiers on adjacent properties	X			
Municipal councillor	X			
Municipality	X			

Interested and Affected Parties List the names of persons consulted in this column, and Mark with an X where those who must be consulted were in fact consulted.	Date Comments Received	Issues raised	EAP's response to issues as mandated by the applicant	Consultation Status (consensus dispute, not finalised, etc.)
Organs of state (Responsible for infrastructure that may be affected Roads Department, Eskom, Telkom, DWA etc.	X			
Communities	X			
Dept. Land Affairs	X			
Traditional Leaders	X			
Dept. Environmental Affairs	X			

Interested and Affected Parties List the names of persons consulted in this column, and Mark with an X where those who must be consulted were in fact consulted.	Date Comments Received	Issues raised	EAP's response to issues as mandated by the applicant	Consultation Status (consensus dispute, not finalised, etc.)
Other Competent Authorities affected	X			
OTHER AFFECTED PARTIES	X			
INTERESTED PARTIES	X			

9 BASELINE ENVIRONMENT

9.1 Item 2(h)(iv): The Environmental attributes associated with the site

9.1.1 Type of Environment Affected by the proposed activity

- Climate

Evander, much like the rest of Mpumalanga, experiences hot summers and mild winters. The wind speed remains relatively stable at about 10km/h throughout the year with a 2-4 km/h increase during the summer months.

Rainfall occurs during the summer months between October to March, with the highest rainfall occurring in January.

Below is a table summarising the precipitation and temperature of Evander, Mpumalanga.

Table 8: Precipitation and Temperature

Month	Precipitation (mm)	Min Temperature °C	Max Temperature °C
January	104	13	27
February	69	12	27
March	61	12	26
April	31	9	23
May	11	6	21
June	5	2	18
July	2	2	18
August	7	4	21
September	17	8	25
October	84	11	26
November	103	12	26
December	122	13	27

- Topography

The topography of the project area is characterised by a combination of flat and undulating grassland, elevations range between 1,600 mamsl to 1,617 mamsl.

The overall mining area generally slopes from north to south. The surface area slopes downward from the Leslie TSF towards the Waterval River to the south and south-west of the TSF. The surface area slopes downward from the Kinross and Winkelhaak TSFs towards the Leslie TSF (Shangoni, 2012).

- Geology & Soils

The project area is located on recent colluvial and alluvial sands, silts and clays which overlie weathered and fractured sandstone, mudrock and coal of the Vryheid Formation of the Witbank-Ogies Coal Field. The regional geology gives rise to the land type Ea20. Soils characteristic of this land type are generally dark coloured or red with a high base status and usually clayey. Soil forms found in this land type that are also potentially associated with

wetlands include Avalon, Estcourt and Westleigh (DWAf, 2005). The operations around Leeuwan fall onto the land type Bb3 which is characterised by dominantly yellow-brown, freely drained soils on soft plinthite (Limosella, 2011).

- Surface water

The mining right area falls within two primary catchment areas namely the Vaal Catchment and the Olifants Catchment. Several non-perennial and perennial watercourses fall within the overall mining right area. These include:

- Grootspuit;
- Grootbossiespruit;
- Kaalspruit;
- Wildebeest Spruit;
- Kleinspruit;
- Klipspruit;
- Trichardspruit; and
- Waterval River.

Surface infrastructure (including all the activities associated with this project) is however limited within the C12D catchment of the Upper Vaal Water Management Area (Figure 1).

Two small drainage lines will be directly impacted by the new TSF and RWDs. Wetland areas (seeps) are associated with the riparian areas of these watercourses (Figure 2).

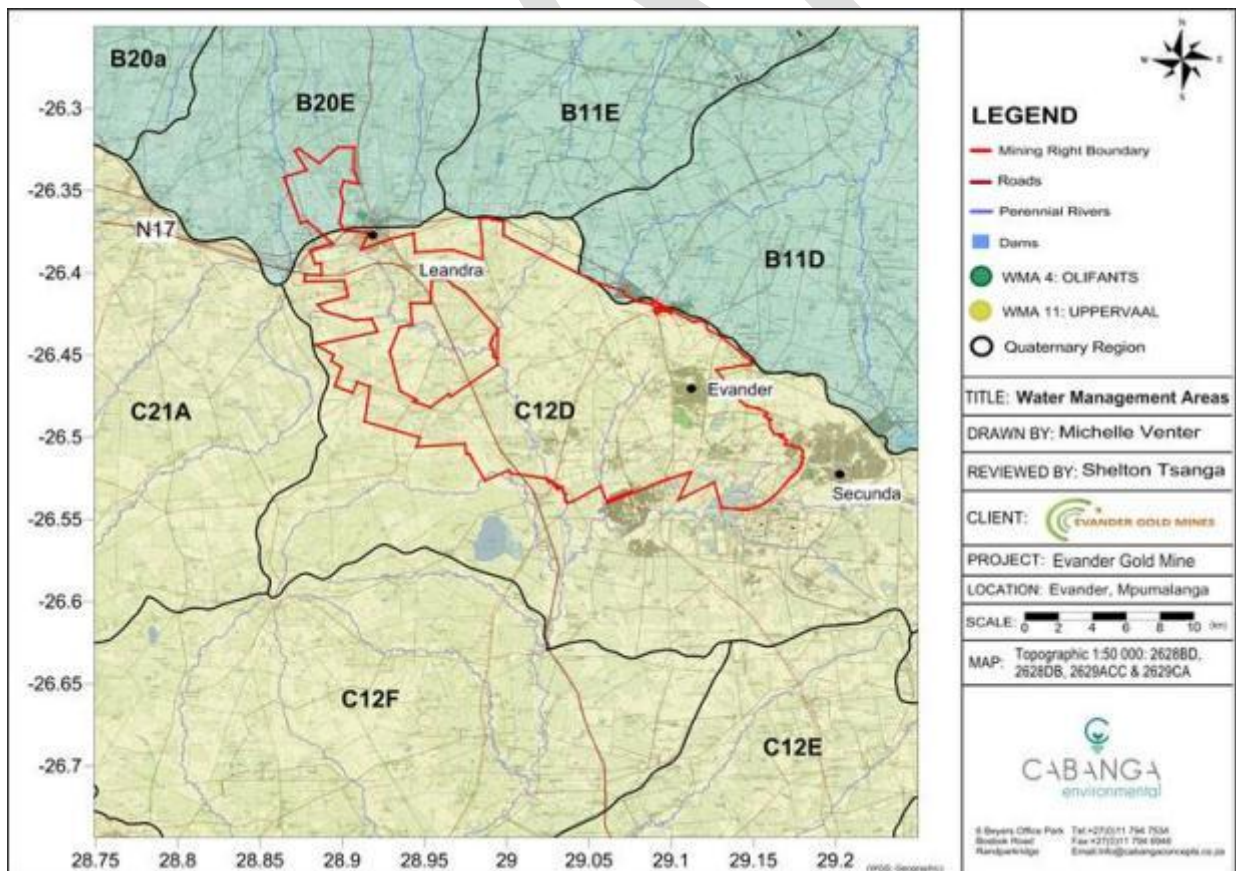


Figure 1: Water Management Areas

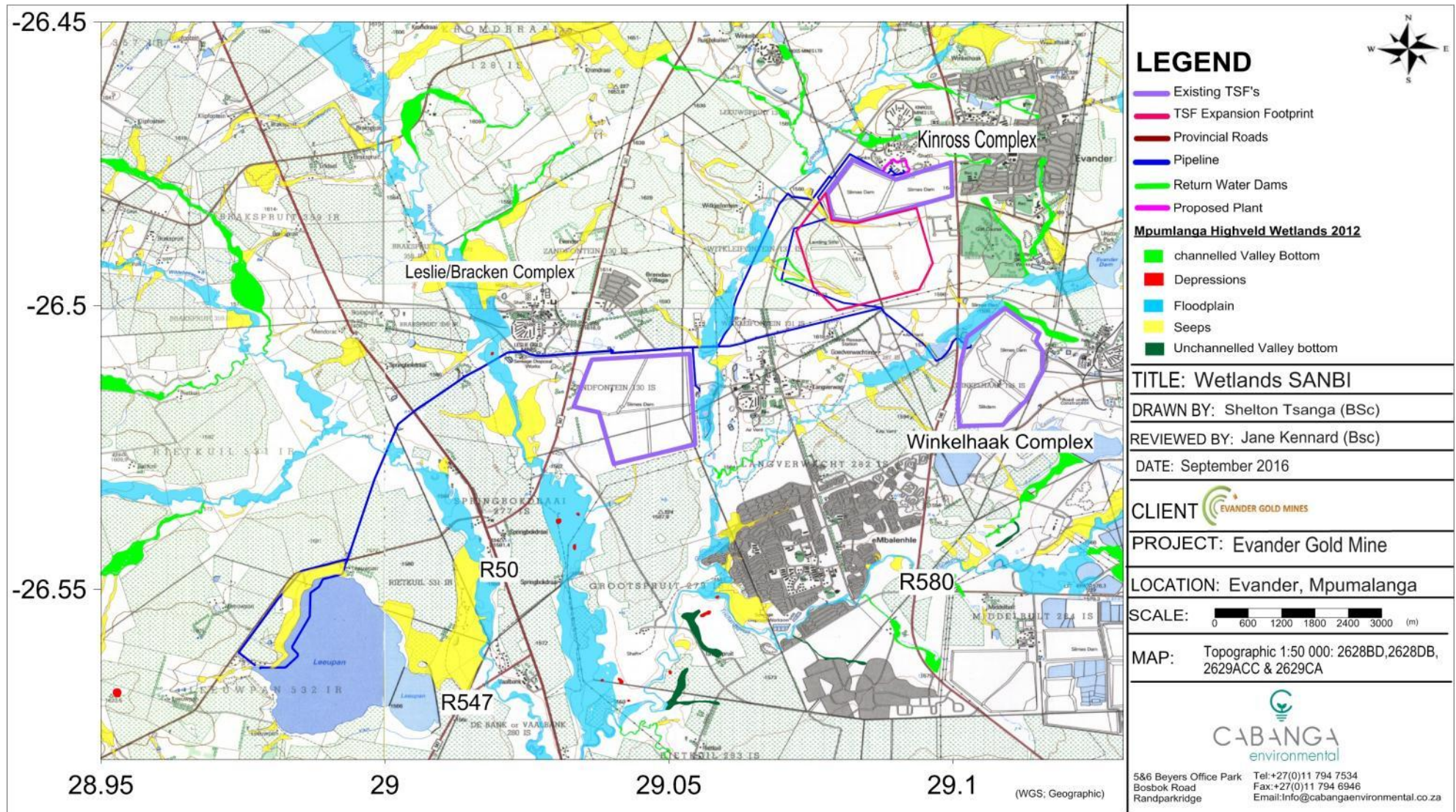


Figure 2: Wetland areas

- Groundwater

Two main aquifers are located within the project area, the shallow weathered aquifer being the Karoo aquifer and the deep fractured Witwatersrand aquifer.

In general water levels in the area mimic the surface topography. Correlation coefficients of between 93% and 99% were obtained between the water level elevation and the topographical elevation for the overall mining right area. It can therefore be inferred that groundwater flow direction conforms to surface drainage.

Existing data indicates that the water levels below surface are fairly shallow (Aquisim, 2016):

- 2.54m below surface at Kinross;
- 5.27m below surface at Winkelhaak;
- 4.19m below surface at Leslie / Bracken; and
- 4.10m below surface in the vicinity of the Leeuwpan Dams.

- Biodiversity

The mining right area falls within the grassland biome (MP302), characterised as lands dominated by grasses and herbaceous vegetation of relatively short and simple structure (Mucina and Rutherford, 2006). The vegetation types naturally occurring in the area are classified as the Soweto Highveld Grassland (Gm8).

According to SANBI GIS (2015) the Soweto Highveld Grassland (Gm8) is currently listed as vulnerable (VU) as only a handful of patches are statutorily, or privately conserved.

Dominant and diagnostic grass species associated with the Soweto Highveld Grassland are *Themeda triandra*, *Paspalum dilatatum*, *Eragrostis curvula*, *Cynodon dactylon*, *Hyparrhenia hirta* and *Sporobolus pyramidalis* (Mucina and Rutherford, 2006).

Previous studies completed for EGM indicate that the vegetation within the specific project area can be largely considered as modified and has been heavily grazed by livestock. The presence of endangered and/or critical species especially within riparian areas will be confirmed by a vegetation specialist during the site survey.

Fauna is largely reliant on the geomorphology and vegetation structure of the area to provide habitat, as each species has a range of conditions that it selects as an optimal habitat.

No large population of animal life occurs within the project area, although a number of smaller mammals, avifauna, amphibians and reptiles have been recorded. Ecological corridors are associated with the Grootspuit.

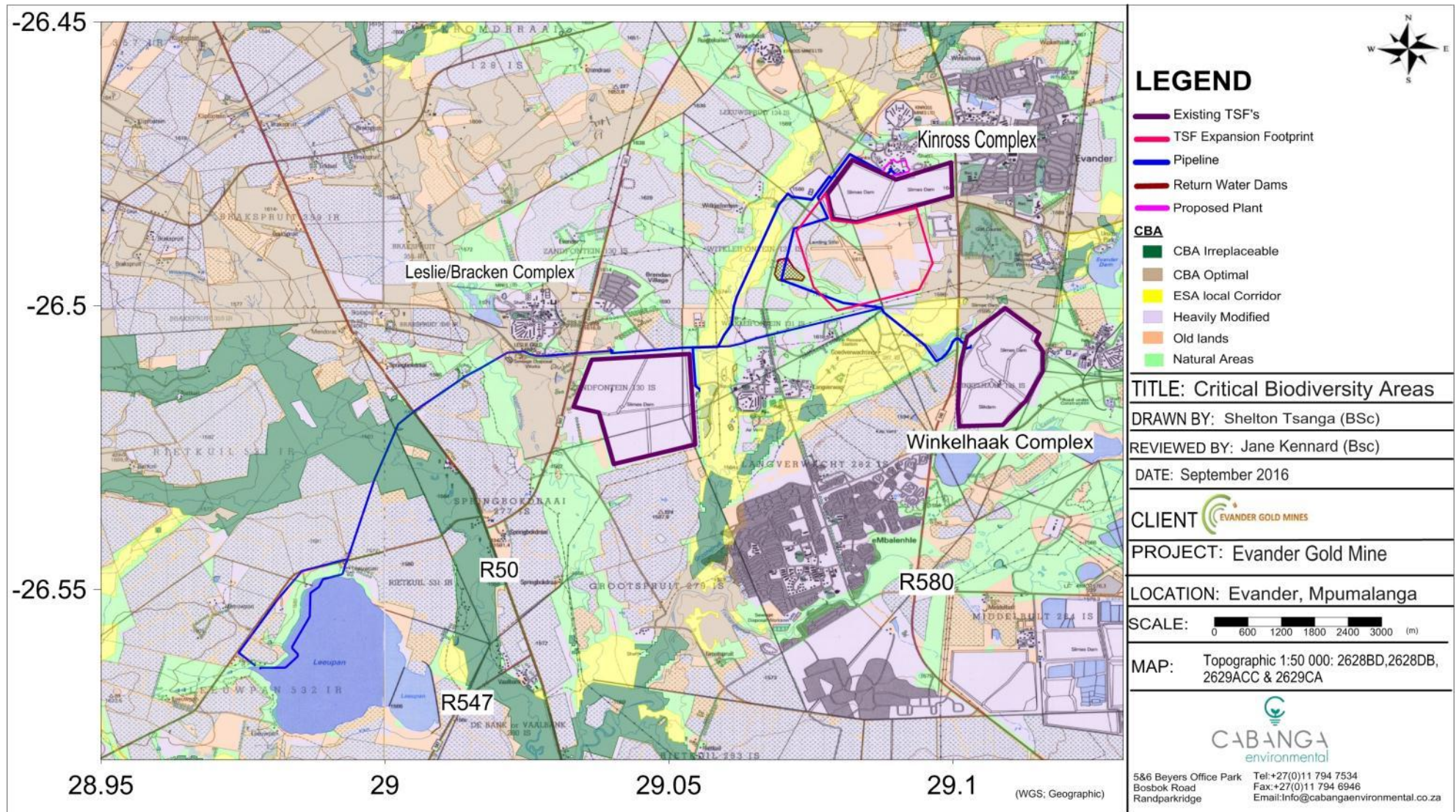


Figure 3: Mpumalanga Biodiversity Sector Plan in relation to the project area

- Heritage

A number of sites have been identified within the overall mining right area these include graves, old farmyards and foundations; a few of which are located in close proximity to the proposed project area.

Heritage site and graves are considered to be highly significant, the necessary buffer zones will be implemented and these sites avoided.

- Social

Evander falls within in the Govan Mbeki Local Municipality of the greater Gert Sibande District Municipality, within the Mpumalanga province. The information below is taken from Statistics South Africa (Census, 2011) and summarises the demographics of the Local Municipality:

- The Govan Mbeki Municipality covers an area of 2 955km².
- The age structure of this region is as follows: 26.9 % of the population is under 15, 69.4% is between 15-64% and 3.7% is over 65.
- The population is growing at an annual rate of 2.84%.
- Only 31.3% of this population have a matric education and 7.9% have no formal schooling.
- The unemployment rate for the population is at 26.2% where 30.8% of these households are run by women.
- There are 83 874 households in the Govan Mbeki Local Municipality, 88.9% of which have toilets connected to a sewage line, 91.7% have weekly refuse removal, 56.5% have piped water in their homes and 90.3% have electricity.

9.2 Description of the current land uses

The project area is surrounded by a combination of mining, residential (formal and informal), industrial, commercial and agricultural activities. The town of Evander is situated in close proximity to the project area, and a small industrial area lies immediately east of the proposed new TSF.

- The area identified for the new TSF (expansion to the Kinross TSF) was previously utilised as an airstrip, the current use is that of agriculture (grazing).
- The proposed Elikhulu plant will be established within the existing dirty water footprint of the Kinross Complex – current use is mining.
- Pipelines will be limited to existing servitudes.

9.3 Description of specific environmental features and infrastructure on site

- **Environmental features:**

The major sensitive features within the project area include:

- Watercourses;
- Wetlands (mainly channel valley bottom wetlands associated with the water resources);
- Potential Flora and fauna species; and
- Heritage sites.

- **Existing infrastructure:**

Infrastructure within the project area includes:

- The site is accessed by the N17 national road and R546 provincial road with many urban roads associated with Evander and Secunda;
- Kinross, Winkelhaak and Leslie/Bracken complex including:
 - Mine access and ventilation shafts;
 - Metallurgical plants, process dams, workshops, administration buildings and access roads;
 - Tailings storage facilities;
 - Waste rock dumps;
 - Storm water, return water, process, and evaporation dams;
- Various servitudes for pipelines, sewage lines and powerlines traverse the area in general.

10 IMPACT ASSESSMENT

10.1 Item 2(h)(v): List of impacts identified

The proposed project will see little changes to the types of impacts experienced by the operation as the proposed activities are already taking place on site in terms of tailing reclamation, processing and disposal to the existing TSFs.

There will be some positive impact with the removal of the two smaller TSFs, and the development of one overall TSF, as the impact source will be from a single facility rather than three separate TSFs. This will also make management implementation easier in the long term as only a single TSF needs to be monitored and maintained through closure.

The development of the new TSF will however require additional footprint and there will be impacts associated with this as the development will expand into neighbouring pastureland and drainage wetlands.

A high level impact summary (pre-mitigation) is provided in Table 9 below.

These impacts will be investigated further during the EIA phase of the project, and will be updated in the EIA EMPr based on the findings of the various specialist studies and input from I&APs.

Table 9: High level impact assessment (pre-mitigation)

Activity	Impact	Aspect	Applicable Mine Phase	STATUS	Magnitude	Extent	Duration	Reversibility	CONSEQUENCE	PROBABILITY	SIGNIFICANCE (pre-mitigation)	Mitigation
Reprocessing of existing TSFs & expansion of Kinross TSF with associated infrastructure												
Clearing of vegetation; Topsoil & subsoil stripping; & stockpiling for the new TSF (expansion to Kinross)	Destruction of drainage wetland and associated aquatic ecosystems	Surface water & associated wetlands & aquatic ecosystems	Construction, Operation	Neg	5	2	5	3	15	5	75	Y
Clearing of vegetation; Topsoil & subsoil stripping; & stockpiling for the new TSF (expansion to Kinross)	Increased runoff and associated potential silt-loading of downstream water bodies and associated wetlands	Surface water & associated wetlands & aquatic ecosystems	Construction, Operation	Neg	5	2	3	3	13	4	52	Y
Clearing of vegetation; Topsoil & subsoil stripping; & stockpiling for the new TSF (expansion to Kinross)	Loss of soil characteristics, erosion and compaction	Land capability	Construction, Operation	Neg	3	1	3	3	10	5	50	Y
Clearing of vegetation; Topsoil & subsoil stripping; & stockpiling for the new TSF (expansion to Kinross)	Loss in land capability	Land capability	Construction, Operation	Neg	3	1	5	3	12	5	60	N
Clearing of vegetation; Topsoil & subsoil stripping; & stockpiling for the new TSF (expansion to Kinross)	Change in land use	Land use	Construction, Operation	Neg	3	1	5	3	12	5	60	N
Clearing of vegetation; Topsoil & subsoil stripping; & stockpiling for the new TSF (expansion to Kinross)	Alien invasive establishment and bush encroachment	Flora & Fauna	Construction, Operation	Neg	3	2	3	3	11	5	55	Y
Clearing of vegetation; Topsoil & subsoil stripping; & stockpiling for the new TSF (expansion to Kinross)	Destruction of protected species	Flora & Fauna	Construction, Operation	Neg	5	2	5	5	17	3	51	Y
Clearing of vegetation; Topsoil & subsoil stripping; & stockpiling for the new TSF (expansion to Kinross)	Loss of biodiversity through vegetation clearance and habitat destruction	Flora & Fauna	Construction, Operation	Neg	4	2	3	3	12	4	48	Y
Clearing of vegetation; Topsoil & subsoil stripping; & stockpiling for the new TSF (expansion to Kinross)	Alienation of, and disturbance to, animals and loss of roost and foraging sites for birds and bats	Flora & Fauna	Construction, Operation	Neg	2	2	3	1	8	4	32	Y
Clearing of vegetation; Topsoil & subsoil stripping; & stockpiling for the new TSF (expansion to Kinross)	Dust generation and particulate matter	Air quality	Construction, Operation	Neg	3	2	3	1	9	5	45	Y
Clearing of vegetation; Topsoil & subsoil stripping; & stockpiling for the new TSF (expansion to Kinross)	Increased noise levels	Noise	Construction, Operation	Neg	1	2	3	1	7	5	35	Y
Clearing of vegetation; Topsoil & subsoil stripping; & stockpiling for the new TSF (expansion to Kinross)	Loss of and disturbance to archaeological / heritage sites	Heritage sites	Construction, Operation	Neg	5	1	5	5	16	1	16	N
Re-processing and rehabilitation of existing TSFs	Increased dust and associated particulate matter emissions	Air quality	Operation	Neg	3	2	3	1	9	2	18	Y
Site activities	Emissions into the atmosphere through use of diesel powered equipment, machinery and vehicles	Air quality	Construction, Operation, Decommissioning	Neg	1	1	3	1	6	5	30	Y

Activity	Impact	Aspect	Applicable Mine Phase	STATUS	Magnitude	Extent	Duration	Reversibility	CONSEQUENCE	PROBABILITY	SIGNIFICANCE (pre-mitigation)	Mitigation
Re-processing and rehabilitation of existing TSFs	Increased risk of contamination and siltation to downstream areas through residue mobilisation	Surface water & associated wetlands & aquatic ecosystems	Operation	Neg	4	3	3	3	13	3	39	Y
Re-processing and rehabilitation of existing TSFs	Eradication of two TSFs and profiling and rehabilitation of surface area	Topography, Soil & Flora	Decommissioning, Closure	Pos	3	2	5	1	11	4	44	N
Re-processing and rehabilitation of existing TSFs	Free drainage restored to area and downstream flow restored	Surface water & associated wetlands & aquatic ecosystems	Decommissioning, Closure	Pos	2	2	5	1	10	4	40	N
Re-processing and rehabilitation of existing TSFs	Revegetation and floral community establishment and succession. Influx of animals to the area once vegetation establishes.	Flora & Fauna	Decommissioning, Closure	Pos	4	2	1	3	10	4	40	N
Re-processing and rehabilitation of existing TSFs	Alien invasive establishment and bush encroachment	Flora & Fauna	Operation	Neg	3	2	3	3	11	5	55	Y
Expansion of Kinross TSF (mine residue)	TSF will permanently alter the topographical nature of the area	Topography & Visual aesthetics	Operation, Decommissioning, Closure	Neg.	1	1	5	5	12	5	60	N
Expansion of Kinross TSF (mine residue)	Increased dust and associated particulate matter emissions	Air quality	Operation, Decommissioning, Closure	Neg	3	2	3	1	9	5	45	Y
Expansion of Kinross TSF (mine residue)	Increased risk of contamination through runoff and seepage from TSF	Groundwater & Surface water & associated wetlands & aquatic ecosystems	Operation, Decommissioning, Closure	Neg	5	3	5	3	16	5	80	Y
Expansion of Kinross TSF (mine residue)	Flow reduction to downstream water catchment due to containment of dirty water runoff	Surface water & associated wetlands & aquatic ecosystems	Operation, Decommissioning, Closure	Neg	2	2	5	3	12	5	60	N
Expansion of Kinross TSF (mine residue)	Alteration in visual aesthetics and sense of place	Visual Aesthetic & Socio-economic	Operation, Decommissioning, Closure	Neg	3	1	5	3	12	4	48	Y
Dirty water containment facilities/dams	Increased risk of contamination through seepage or spills to the environment	Groundwater & Surface water & associated wetlands & aquatic ecosystems	Operation, Decommissioning, Closure	Neg	4	2	5	3	14	5	70	Y

Activity	Impact	Aspect	Applicable Mine Phase	STATUS	Magnitude	Extent	Duration	Reversibility	CONSEQUENCE	PROBABILITY	SIGNIFICANCE (pre-mitigation)	Mitigation
Water supply, pumping and reticulation	Irresponsible use of water and water wastage through leaks which will alter downstream water dynamics	Surface water & associated wetlands & aquatic ecosystems	Construction, Operation	Neg	3	2	1	1	7	3	21	Y
Slurry reticulation Water supply, reticulation & storage	Increased risk of contamination and siltation to downstream areas through leaks in slurry pipelines	Surface water & associated wetlands & aquatic ecosystems	Operation, Decommissioning, Closure	Neg	5	3	4	3	15	4	60	Y
Establishment of Carbon in Leach (CIL) plant and associated infrastructure												
Plant and associated infrastructure	Excavation for the establishment of foundations will generate dust	Air quality	Construction	Neg	2	2	3	1	8	5	40	Y
Plant and associated infrastructure & processing	Increased noise levels	Noise	Construction, Operation	Neg	1	2	3	1	7	2	14	Y
Plant and associated infrastructure & processing	Emission of particulate matter	Air quality	Operation	Neg	4	2	3	1	10	5	50	Y
Plant and associated infrastructure	Deterioration in visual aesthetics and sense of place	Visual Aesthetic & Socio-economic	Construction, Operation, Decommissioning	Neg	1	1	3	3	8	2	16	Y
Slurry handling, generation and pumping	Increased risk of contamination and siltation to downstream areas through slurry leaks and spills	Surface water & associated wetlands & aquatic ecosystems	Operation	Neg	5	3	4	3	15	4	60	Y
Chemical / Reagent Storage	Potential contamination on surface through improper storage of chemicals, which could impact the environment through runoff and seepage	Surface water & associated wetlands & aquatic ecosystems. Groundwater. Soil & land capability. Flora.	Operation	Neg	4	3	3	3	13	3	39	Y
Diesel Storage	Potential hydrocarbon contamination on surface which could impact the environment through runoff and seepage	Surface water & associated wetlands & aquatic ecosystems	Construction, Operation	Neg	5	3	3	3	14	4	56	Y
Dirty water containment facilities/dams	Increased risk of contamination through seepage or spills to the environment	Groundwater & Surface water & associated wetlands & aquatic ecosystems	Operation, Decommissioning	Neg	5	2	3	3	13	2	26	Y
Potable Water supply & reticulation	Irresponsible use of water and water wastage	Surface water & associated wetlands & aquatic ecosystems	Construction, Operation, Decommissioning	Neg	3	2	3	1	9	3	27	Y

Activity	Impact	Aspect	Applicable Mine Phase	STATUS	Magnitude	Extent	Duration	Reversibility	CONSEQUENCE	PROBABILITY	SIGNIFICANCE (pre-mitigation)	Mitigation
Ablutions & change house with sewage treatment plant	Potential contamination of surface water bodies with sewage and nutrient enrichment of aquatic environments	Surface water & associated wetlands & aquatic ecosystems	Construction, Operation, Decommissioning	Neg	2	1	3	3	9	2	18	Y
Waste generation	Potential surface contamination which will impact surrounding areas through runoff and seepage	Groundwater & Surface water & associated wetlands & aquatic ecosystems	Construction, Operation	Neg	3	1	2	1	7	4	28	Y
Overall development and associated activities on site												
Site activities	Employment opportunities	Socio-economic	Construction, Operation, Decommissioning	Pos	4	3	3	3	13	4	52	N
Site activities	Local / Regional business	Socio-economic	Construction, Operation, Decommissioning	Pos	4	3	3	3	13	4	52	N

10.2 Item 2(h)(vi): Methodology used in determining the significance of environmental impacts

Impact assessment methods were developed to: (1) identify the potential impacts of a proposed development on the social and natural environment; (2) predict the probability of these impacts and (3) evaluate the significance of the potential impacts.

The methodology used by Cabanga to assess the impacts identified in Table 9 above, are as follows:

The status of the impact		
Status	Description	
Positive:	a benefit to the holistic environment	
Negative:	a cost to the holistic environment	
Neutral:	no cost or benefit	
The magnitude (severe or beneficial) of the impact		
Score	Severe/beneficial effect	Description
1	Slight	Little effect – negligible disturbance/benefit
2	Slight to moderate	Effects observable – environmental impacts reversible with time
3	Moderate	Effects observable – impacts reversible with rehabilitation
4	Moderate to high	Extensive effects – irreversible alteration to the environment
5	High	Extensive permanent effects with irreversible alteration
The extent of the impact		
Score	Extent	Description
1	Site specific	Within the site boundary
2	Local	Affects immediate surrounding areas
3	Regional	Extends substantially beyond the site boundary
4	Provincial	Extends to almost entire province or larger region
5	National	Affects country or possibly world
The duration of the impact		
Score	Duration	Description

1	Short term	Less than 2 years
2	Short to medium term	2 – 5 years
3	Medium term	6 – 25 years
4	Long term	26 – 45 years
5	Permanent	46 years or more

The reversibility of the impact

Score	Reversibility	Description
1	Completely reversible	Reverses with minimal rehabilitation & negligible residual affects
3	Reversible	Requires mitigation and rehabilitation to ensure reversibility
5	Irreversible	Cannot be rehabilitated completely/rehabilitation not viable

The Consequence

= Magnitude + Spatial Scale + Duration + Reversibility.

The probability of the impact

Score	Rating	Description
1	Unlikely	Less than 15% sure of an impact occurring
2	Possible	Between 15% and 40% sure of an impact occurring
3	Probable	Between 40% and 60% sure that the impact will occur
4	Highly Probable	Between 60% and 85% sure that the impact will occur
5	Definite	Over 85% sure that the impact will occur

The Significance

= Consequence x Probability.

Score out of 100	Significance
1 to 20	Low
21 to 40	Moderate to Low
41 to 60	Moderate

61 to 80	Moderate to high
81 to 100	High
Is mitigation possible?	Yes or no?

Note: this is a high level assessment, and impacts have been rated prior to any mitigation measures being proposed.

10.3 Item 2(h)(vii): The positive and negative impacts that the proposed activity (in terms of the initial site layout) and alternatives will have on the environment and the community that may be affected

A desktop study based upon available GIS data was undertaken by SLR Consulting (SA) (Pty) Ltd (SLR, 2016) for each of the site alternatives listed in Table 5 so as to identify areas of environmental concern. Each site was ranked on a scale of 1 to 10 (lowest to highest negative impact), the results of which are summarised in Table 10 below.

Table 10: Environmental and social factors considered

ITEM	CRITERIA		ALTERNATIVE 1	ALTERNATIVE 2	ALTERNATIVE 3	ALTERNATIVE 4	BOCA 1	BOCA 2	BOCA 3
1	Aquatic biodiversity		1 Full area "Ecosystem maintenance"	4 Predominantly "Ecosystem maintenance" Small "Irreplaceable" area which could be avoided	1 Full area "Ecosystem maintenance"	2 Majority of area is "Important & Necessary"	2 Majority of area is "Important & Necessary"	1 Full area "Ecosystem maintenance"	1 Full area "Ecosystem maintenance"
2	Critical biodiversity	Ranking:	3	3	4	5	1	2	4
		Description:	Minor "Critical Biodiversity Area" on periphery. Majority "Heavily or moderately" modified. Minor "Other natural areas".	Minor "Critical Biodiversity Area" on periphery. Majority "Heavily or moderately" modified.	Partially "Critical Biodiversity Area" and "Other Natural Areas"	Majority "Critical Biodiversity Area"	Full area "Heavily or moderately modified"	Partially "Heavily or moderately modified" and "Other Natural Areas"	Partially "Critical Biodiversity Area" and "Ecological support area"
3	Geology	Ranking:	2	2	2	2	1	1	2
		Description:	Partially "Vryheid" and "Karoo dolerite"	Partially "Vryheid" and "Karoo dolerite"	Partially "Vryheid" and "Karoo dolerite"	Some "Vryheid" Majority "Karoo dolerite"	"Karoo dolerite"	"Karoo dolerite"	Some "Vryheid" Majority "Karoo dolerite"
4	Mining biodiversity	Ranking:	4	3	5	5	4	4	4
		Description:	Partially "Highest biodiversity importance" and "High biodiversity importance"	"High biodiversity importance"	"Highest biodiversity importance"	"Highest biodiversity importance"	Minor "Highest biodiversity importance" Majority "High biodiversity importance"	Partially "Highest biodiversity importance" and "High biodiversity importance"	Partially "Highest biodiversity importance" and "High biodiversity importance"
5	Mpumalanga Highveld Wetlands	Ranking:	4	1	4	4	1	3	1
		Description:	Minor "Seep" and "Dam" wetland	None	Some "Channelled valley bottom"; "Seep" & Dam" wetlands	Some "Channelled valley bottom"; "Seep" & Dam" wetlands	None	Minor "Seep" wetland	None
6	NFEPA Rivers &	Ranking:	3	1	3	4	1	3	1

ITEM	CRITERIA		ALTERNATIVE 1	ALTERNATIVE 2	ALTERNATIVE 3	ALTERNATIVE 4	BOCA 1	BOCA 2	BOCA 3
	Wetlands	Description:	Minor "Mpumalanga Highveld wetlands" and "Wetlands other"	None	Minor "Mpumalanga Highveld wetlands" and "Wetlands FEPA"	Minor "Mpumalanga Highveld wetlands" and "Wetlands other". "Code 1" and "Code 3" Largely modified Class D NFEPA Rivers PES 1999	None	Minor "Mpumalanga Highveld wetlands"	None
7	Quaternary catchments & impacts on downstream users	Ranking:	2	1	4	4	1	3	1
		Description:	C12F quaternary catchment. 1 x minor "non-perennial river"	C12D quaternary catchment. No rivers	C12D quaternary catchment. Several "non-perennial rivers"	C12D quaternary catchment. Several "non-perennial rivers"	C12D quaternary catchment. No rivers	C12D quaternary catchment. 2 x minor "non-perennial river"	C12D quaternary catchment. No rivers
8	Terrestrial biodiversity	Ranking:	3	2	5	5	3	3	3
		Description:	Partially "Important & necessary" and "No natural habitat remaining". Minor "Highly significant"	Majority "No natural habitat remaining" and minor "Least Concern"	"Highly significant"	"Highly significant"	Majority "No natural habitat remaining" with minor "Least Concern" and "Highly significant"	Partially "No natural habitat remaining"; "Least Concern" and "Highly significant"	Partially "No natural habitat remaining" and "Highly significant"
9	Powerlines	Ranking:	1	1	1	4	4	1	5
		Description:	None	None	None	Two powerlines	A single powerline	None.	A few powerlines
10	Land use	Ranking:	1	4	3	3	4	3	3
		Description:	Partially existing TSF, partially open but disturbed veld	Farmland	Partially farmland, partially open veld	Partially farmland, partially open veld. Some dwellings	Farmland	Partially farmland, partially open veld. Some dwellings	Open veld
11	Consequence of pipe failure	Ranking:	1	5	4	4	3	2	2
		Description:	Minor	3 x perennial river	3 x perennial	3 x perennial	1 x perennial	1 x perennial	1 x perennial

ITEM	CRITERIA		ALTERNATIVE 1	ALTERNATIVE 2	ALTERNATIVE 3	ALTERNATIVE 4	BOCA 1	BOCA 2	BOCA 3
	(between plant & new TSF)			crossings, & some "irreplaceable"& "Important & necessary" biodiversity areas	river crossings,"& "Important & necessary" biodiversity areas	river crossings,"& "Important & necessary" biodiversity areas	river crossing	river crossing	river crossing
12	Disruption of existing / current transport routes	Ranking:	1	1	1	1	3	1	1
		Description:	None	None	None	None	Main Road	None	None
13	Energy usage & carbon footprint	Ranking:	1	3	3	4	2	2	1
		Description:	Shortest pumping distance	Greater pumping distance	Greater pumping distance	Greatest pumping distance	Fairly short pumping distance	Fairly short pumping distance	Short pumping distance
UN-WEIGHTED TOTAL			27	31	40	47	30	29	29
WEIGHTED TOTAL			109	116	159	183	104	117	103

10.4 Item 2(h)(viii): The possible mitigation measures that could be applied and the level of risk

PPP has commenced for the project and is currently underway; where issues or comments are received these will be incorporated into the final Scoping Report. Table 11 below summarise the issues and concerns raised by I&APs to date and an assessment/discussion of the mitigation or site alternatives available to address their concerns; together with an assessment of the risks associated with the mitigation or alternative considered.

Table 11: Issues and concerns raised and alternatives considered

Issue raised	Mitigation measures considered including alternatives	Risks associated with proposed mitigation measure
<p style="color: red;">PPP currently underway. This table will be updated prior to submission to the DMR.</p> <p style="color: red;">Alternative sites proposed by Sasol were included in the site assessment.</p>		

10.5 Item 2(h)(ix): The Outcome of the Site Selection Matrix and Final Layout Plan

Site Selection:

From the results the following can be summarised:

- Alternative 1 is the most favourable site when no weightings are provided, with the Burnt Out Coal Areas (BOCA) 1 and 2 as the next best options.
- When incorporating the weighting factors, BOCAs 3 and 1 respectively are the most and near-most favourable sites, with Alternative 1 following in third place.
- Alternatives 3 and 4 will have the highest negative impact, and are considered unfavourable.

Alternatives 3 and 4 were excluded from further analyses. Alternatives 1 and 2 and the three BOCAs were modelled to determine geometric capacities.

The results from the simplified modelling demonstrated that:

- Both Alternatives 1 and 2 have sufficient capacity.
- None of the individual BOCA footprints can handle the intended deposition rate of 1.0 Mtpm.
- None of the paired BOCA footprints can handle 1.0 Mtpm.
- All three BOCA sites combined can only handle 1.0 Mtpm for roughly the first 3 years, after which the deposition rate would need to reduce.

The BOCAs were consequently not considered any further.

Alternatives 1 and 2 were considered further in terms of CAPEX and OPEX costs. The costs associated with Alternative 2 were much higher. This coupled with the fact that Alternative 1 is the only alternative within EGM's approved Mining Right area makes this the preferred site alternative.

Layout Alternatives:

Three layout alternatives are currently being considered for the new TSF (Kinross expansion), namely 1A, 1B and 1C as indicated in Plan 4 of Appendix 3. Overall Option 1C has the greatest capacity and is considered the preferred alternative.

The final layout will consider inputs from I&APs following the PPP, as well as findings from the relevant specialist investigations and will be determined during the EIA / EMP phase of the project.

10.6 Item 2(h)(x): Motivation where no alternative sites were considered

The plant will be located within an area already disturbed by mining activities, and all runoff will report to the mine's existing dirty water management facilities. No new areas will be disturbed by the construction of the plant.

The routes of the various pipelines required for slimes and water reticulation are limited to existing servitude routes registered in favour of EGM.

The position of the Return Water Dams (RWDs) are limited due to topography and land availability. These have been positioned in relation to the TSF to allow water decanting from the TSF to be gravity fed by penstock systems into the RWDs.

10.7 Item 2(h)(xi): Statement motivating the preferred site

The preferred alternative (as indicated in Plan 5 of Appendix 3) was identified based on environmental factors, geometric capacities, pumping distances and cost implications. Expanding the existing Kinross TSF and constructing the new plant within the existing Kinross Complex will prevent fragmentation of land and allows the development to occur in a centralised area.

11 ITEM 2(i): PLAN OF STUDY FOR THE ENVIRONMENTAL IMPACT ASSESSMENT PROCESS

11.1 Item 2(i)(i): Description of alternatives to be considered including the option of not going ahead with the activity

Site Alternatives 2, 3 and 4 as well as BOCA 1, 2, 3 have been ruled out and will not be considered further during the EIA / EMP phase of the project.

Site Alternative 1C is the preferred site and layout alternative and will be considered in detail in the EIA / EMP phase of the project.

The Final EIA and EMP will include the following assessment:

- A final layout discussing any changes in proposed layout or processes as reported in the Scoping Report due to the findings of the EIA and relevant specialist studies.
- The "no-go" alternative has been briefly stipulated within the Scoping Report and will be elaborated where relevant regarding any changes in layout or activities.

11.2 Item 2(i)(ii): Description of aspects to be assessed as part of the environmental impact assessment process

The following aspects will be assessed within the EIA EMPr:

- Biophysical:
 - Soils, land capability and land use
 - Biodiversity (fauna, flora)
 - Aquatic ecology and ecosystems
 - Surface water
 - Groundwater
 - Wetlands
 - Air Quality
 - Noise
- Cultural heritage
- Visual environment
- Socio-economic
- Traffic and safety
- Closure and Rehabilitation

The final impact table will incorporate additional impacts identified by I&APs and by specialists and include proposed mitigation measures, a post mitigation significance assessment, and monitoring and inspection details that need to be implemented to reduce probability or severity of the impact and to ensure mitigation measures are appropriate.

Item 2(i)(iii): Description of aspects to be assessed by specialists

A number of specialist investigations have been undertaken for EGM over the years, these studies investigated the baseline environment, potential impacts and provided mitigation measures of the current status quo. The baseline information from these studies will be utilised to compile the EIA / EMPr, these will however be updated and/or supplemented where necessary.

Table 12: Specialist studies

Environmental Aspect	Specialist study required
Geohydrological assessment	The existing groundwater study and model will be reviewed and updated to reflect the change in scope.
Waste Classification & Assessment	Composite samples will be taken of the existing TSFs; these will be analysed in terms of Regulation 634, 635, and 636 and SANS 10234. The results of which will inform the liner requirements of the new TSF.
Surface water assessment	A hydrological impact assessment will be completed for the re-processing of the Winkelhaak and Leslie/Bracken TSFs; as well as for the new TSF. Floodlines will be delineated for:

Environmental Aspect	Specialist study required
	<ul style="list-style-type: none"> • Waterval River near Leslie; • Grootspruit located on the eastern side of Leslie TSF; • Winkelhaakspruit located north of Winkelhaak TSF; • Leeuwspruit located on the north western side of the Kinross TSF.
Fauna & Flora assessment	<p>Baseline information from the 2011 Fauna & Flora Assessment will be utilised for the compilation of the EIA / EMPr.</p> <p>This will be supplemented with a survey of the new TSF footprint area to confirm the vegetation composition and to identify and map any floral species of conservation concern.</p>
Wetland delineation & characterisation	<p>The 2011 Wetland Assessment Report will be reviewed and supplemented where necessary.</p> <p>It is anticipated that a site survey will be completed of the new TSF footprint area in order to complete a detailed wetland delineation and functional assessment (including PES, EIS, impact scores and buffer zone calculations) for this area.</p>
Aquatic Assessment	<p>No additional studies will be undertaken, information from EGM's bio-monitoring programme will be utilised for the compilation of the EIA / EMPr.</p>
Soils, land capability and land use assessment	<p>No additional studies will be undertaken, desktop information will be utilised for the compilation of the EIA / EMPr.</p>
Heritage and archaeological assessment	<p>A Phase I Heritage Assessment was completed for the project area in 2010, this information will be utilised for the compilation of the EIA / EMPr.</p> <p>No additional studies will be undertaken</p>

11.3 Item 2(i)(iv): Proposed methodology of assessing the environmental aspects including the proposed method of assessing alternatives

All potential impacts that may occur in terms of the various environmental aspects as a result of the activities and sub-activities associated with the proposed project will be listed. As the specialist studies are reviewed and updated, any additional impacts identified by the specialists will be added.

All specialists utilise some form of impact rating similar to the process detailed below. The impact rating completed by the specialists will be translated into the impact assessment

process detailed below as far as practically possible. Considering variations in impact assessment methodology by different specialists, the specialist impact assessment is therefore duplicated within a single unified impact assessment process, to allow for all impacts to be assessed in the same way, reducing subjectivity and allowing for direct comparative ranking of all the impacts identified during the environmental process.

Through the PPP, any issues or potential impacts identified by the I&APs will be added to the list of potential impacts.

All these impacts will then be assessed as per the methodology described below and their significance determined. Impact identification will therefore be a consolidated approach based on Cabanga's professional experience, specialist expertise and I&AP (including organs of state involved in the PPP) input.

The status of the impact		
Status	Description	
Positive:	a benefit to the holistic environment	
Negative:	a cost to the holistic environment	
Neutral:	no cost or benefit	
The magnitude (severe or beneficial) of the impact		
Score	Severe/beneficial effect	Description
1	Slight	Little effect – negligible disturbance/benefit
2	Slight to moderate	Effects observable – environmental impacts reversible with time
3	Moderate	Effects observable – impacts reversible with rehabilitation
4	Moderate to high	Extensive effects – irreversible alteration to the environment
5	High	Extensive permanent effects with irreversible alteration
The extent of the impact		
Score	Extent	Description
1	Site specific	Within the site boundary
2	Local	Affects immediate surrounding areas
3	Regional	Extends substantially beyond the site boundary
4	Provincial	Extends to almost entire province or larger region
5	National	Affects country or possibly world

The duration of the impact

Score	Duration	Description
1	Short term	Less than 2 years
2	Short to medium term	2 – 5 years
3	Medium term	6 – 25 years
4	Long term	26 – 45 years
5	Permanent	46 years or more

The reversibility of the impact

Score	Reversibility	Description
1	Completely reversible	Reverses with minimal rehabilitation & negligible residual affects
3	Reversible	Requires mitigation and rehabilitation to ensure reversibility
5	Irreversible	Cannot be rehabilitated completely/rehabilitation not viable

The Consequence

= Magnitude + Spatial Scale + Duration + Reversibility.

The probability of the impact

Score	Rating	Description
1	Unlikely	Less than 15% sure of an impact occurring
2	Possible	Between 15% and 40% sure of an impact occurring
3	Probable	Between 40% and 60% sure that the impact will occur
4	Highly Probable	Between 60% and 85% sure that the impact will occur
5	Definite	Over 85% sure that the impact will occur

The Significance

= Consequence x Probability.

Score out of 100	Significance
1 to 20	Low
21 to 40	Moderate to Low

41 to 60	Moderate
61 to 80	Moderate to high
81 to 100	High
Is mitigation possible? Yes or no?	
Where mitigation is possible, suitable management and monitoring measures will be proposed. The impacts will then be rated on a post-mitigation scenario to determine effectiveness of the mitigation measure.	
Degree of loss of resource	
Low	Where the resource will recover on its own with no/limited rehabilitation over an observable period of time.
Moderate	Where the resource will recover over extended period or with rehabilitation or remedial measures to assist recovery of resource.
High	Where the resource cannot be recovered, or the resource will recover over extended time periods.

11.4 Item 2(i)(v): Proposed method of assessing duration significance

This will be incorporated into the impact assessment as “degree of loss of resource” which is evaluated in terms of:

- Low degree of loss: where the resource will recover from the impact on its own with no/limited rehabilitation over an observable period of time;
- Moderate degree of loss: where the resource will recover from the impact over extended period or with rehabilitation or remedial measures to assist recovery of resource; and
- High degree of loss: Where the resource cannot recover from the impact or the resource will recover over very extended time periods.

11.5 Item 2(i)(vi): Stages at which the competent authority will be consulted

The DMR has received all the relevant documentation that would have been presented to registered I&APs during the scoping phase, including copies of the BID, invites to the scoping phase public meeting, review of minutes of the public meeting and the review of information presented in this Scoping Report.

The Competent Authority (DMR) will also be notified through the submission of documents in terms of the Section 102 application and the application for environmental authorisation.

This draft Scoping Report will be submitted to the DMR for comment and feedback. In addition, the final Scoping Report (this report), incorporating all comments raised during the PPP review period, will be submitted to the DMR for approval.

Future stages of the consultation will include:

- The DMR will be invited to complete a site visit after submission of the Scoping Report.
- Notification of the EIA and EMPr phase public meeting, and the presentation of the meeting;
- Notification of the availability of the meeting minutes for public review and comment; and
- Notification of the availability of various environmental reports for public review, including the EIA and EMPr and the IWULA and associated IWWMP report.

The comments received from the public after the completion of the public review period will then be incorporated into the final EIA and EMPr which will be submitted to the DMR for approval.

The DWS (competent authority in terms of the water use license application) has been notified of the project in writing and pre-consultation meeting has been schedule. The DWS will also be regarded as an I&AP through the PPP and receive all notifications relevant to the PPP as briefly stipulated above. The DWS will then also receive the final IWULA and IWWMP report for comment and approval.

11.6 Item 2(i)(vii): Particulars of the public participation process with regards to the impact assessment process that will be conducted

11.6.1 Steps to be taken to notify I&APs

Hand delivered notification has been completed as far as possible with land owners / users and adjacent land owners / users.

PPP during the EIA phase of the project involves the review of the EIA and EMPr as well as the findings of the various specialist studies. I&APs will be notified using the following:

- Advertisements
- Registered I&APs will be notified by order of preference (either: SMS, fax, e-mail, post or telephone call).

Registered I&APs will be invited to attend an EIA phase PPP meeting where the contents of the EIA EMPr will be presented and the I&APs will have the opportunity to comment.

The stages at which these will occur are detailed further below.

11.6.2 Details of the engagement process to be followed

All persons registered as I&APs and organs of state identified through the scoping phase PPP will be sent invites to attend the EIA and EMPr Phase PPP meeting. The meeting will address specialist findings, focussing on sensitive issues, and provide information on the impact probability and significance. Proposed mitigation measures will also be discussed.

The meeting will be recorded and minuted, and the minutes distributed to all attendees and I&APs for comment.

A Final Draft EIA and EMPr will be compiled.

I&APs will be notified of the availability of the EIA and EMPr and associated Appendices for public review and comment, the location where the hard copy and electronic copies can be viewed and the timeframe (30 calendar days, which will be extended if significant public holidays occur within this period as per NEMA EIA regulations) for comment.

All comments received from the review phase will be incorporated into the issues and response table and incorporated into the Final PPP Report and Final EIA and EMPr for submission to authorities.

During the EIA and EMPr phase, if the need is identified to have one-on-one micro-consultations, then these will be organised with the relevant I&AP.

Upon receipt of a RoD, all registered I&APs will be notified of the RoD, the final decision in the RoD and the appeal process they can follow under NEMA. The outcome of the RoD will be advertised in two local newspapers.

11.6.3 Description of the information to be provided to the I&APs

PPP during the EIA phase of the project will entail the review of the EIA EMPr and all the completed specialist studies. These reports will be provided to the public for a period of 30 days.

I&APs will be notified of the availability of the EIA and EMPr (and associated specialist studies) for public review. Hard copies will be placed at the Evander Public Library and the EGM central offices. Electronic copies will be available for download from Cabanga's website (www.cabangaconcepts.co.za). Electronic copies will be provided to any I&APs requesting these.

In addition to this registered I&APs will be invited to attend an EIA phase PPP meeting where the contents of the EIA EMPr will be presented and the I&APs will have the opportunity to comment.

As per NEMA, the I&APs will be notified of the RoD within the prescribed timeframes. This will include the outcome of the RoD and detail the appeal process that I&APs can follow. A copy of the RoD will be made available to any I&AP requesting such.

11.7 Item 2(i)(viii): Description of the tasks that will be undertaken during the Environmental Impact Assessment Process

The following will be undertaken during the EIA / EMPr Phase of the project:

- Further assess and finalise the layout options of the new TSF.
- Conduct and complete specialist studies where applicable.
- Compile the EIA / EMPr:
 - Assess the potential impacts as per the abovementioned methodology;
 - Assess the cumulative impacts associated with the project;
 - Propose suitable mitigation measures to avoid, mitigate or remedy the impacts;

- Propose a monitoring programme to measure the effectiveness of the mitigation measures proposed / implemented;
- Assess the quantum for financial provision associated with the project
- PPP to continue as outlined above.

11.8 Item 2(i)(ix): Measures to avoid, reverse, mitigate, or manage identified impacts and to determine the extent of the residual risks that need to be managed and monitored

Each impact identified within the impact assessment process will be evaluated in terms of whether mitigation measure can be applied or not, and what kinds of mitigation measures can be applied. This will be reported in the fully completed and detailed impact assessment table that will be completed for the EIA and EMPr. Therefore each impact, whether the significance is low or high, will have a mitigation measure stipulated where applicable. Furthermore, a post-mitigation assessment of the significance of the impact will also be completed, which will provide an indication of the effectiveness of said mitigation measure.

The preliminary summary is provided in the table below.

Table 13: Preliminary mitigation measures

Activity	Impact	Mitigation	Potential for Residual Risk
Reprocessing of existing TSFs & expansion of Kinross TSF with associated infrastructure			
Clearing of vegetation; Topsoil & subsoil stripping; & stockpiling for the new TSF (expansion to Kinross)	Destruction of drainage wetland and associated aquatic ecosystems.	<p>CONTROL Establish the diversion channel in line with engineered designs and ensure flow is diverted before the wetland area is impacted. Where possible transplant hydromorphic species in and around the diversion channel to aid in establishing aquatic floral habitats. Demarcate designated activity area as small as possible and maintain activity within this area only.</p> <p>STOP Protected species cannot be removed until the necessary permits are obtained under NEM:BA. Wetlands cannot be destroyed until the authorisations under NEMA and NWA are obtained and engineered diversion channels established.</p>	Moderate

Activity	Impact	Mitigation	Potential for Residual Risk
<p>Clearing of vegetation; Topsoil & subsoil stripping; & stockpiling for the new TSF (expansion to Kinross)</p>	<p>Increased runoff and associated potential silt-loading of downstream water bodies and associated wetlands.</p>	<p>REMEDY Rehabilitate all disturbed areas as soon as they are no longer required. Revegetate all bare soils.</p> <p>CONTROL Establish storm water control measures before any other activities commence to ensure clean and dirty water separation and dirty water containment. This will include upslope berms to divert clean water around the site of activity into natural drainage lines and silt traps downstream of areas of activity to trap sediment before water drains to the natural area. Establish approved erosion control measures to reduce the risk of transported soils. Road surfaces must be compacted in order to increase stability. Sheet runoff from hard surfaces and roads curtailed through proper drainage control. Install flow dissipaters where rapid flow of diverted clean storm water runoff occurs.</p> <p>STOP 100m buffer zones / 1:100 year flood lines will be demarcated as no-go areas until authorisations are obtained to continue activities in such areas.</p>	<p>Low</p>

Activity	Impact	Mitigation	Potential for Residual Risk
<p>Clearing of vegetation; Topsoil & subsoil stripping; & stockpiling for the new TSF (expansion to Kinross)</p>	<p>Loss of soil characteristics; erosion and compaction</p>	<p>REMEDY Rehabilitate all disturbed areas as soon as they are no longer required and cordon off areas until vegetation has established. Revegetate all bare soils, including all berms and soil stockpiles. Incorporate herbaceous vegetation into soil stockpiles.</p> <p>CONTROL Demarcate designated activity area and keep as small as possible. Strip topsoil from all activity areas and stockpile as berms or soil. Keep topsoil stockpiles below 3m. Subsoil may also be used for berms if additional material is required, or soil will be stored in designated subsoil stockpile. Keep subsoil stockpiles below 6m. All soil stockpiles will have top and toe perimeter berms with no more than 1:3 side slopes. Construct drainage and erosion controls where needed, such as gabion baskets, levees. Compacted soils will be ripped, disced or scarified as needed and vegetated.</p>	<p>Low</p>
<p>Clearing of vegetation; Topsoil & subsoil stripping; & stockpiling for the new TSF (expansion to Kinross)</p>	<p>Loss in land capability</p>	<p>No Mitigation possible; proper soil handling and stockpiling in order to attain post-mining land capabilities.</p>	<p>Moderate</p>

Activity	Impact	Mitigation	Potential for Residual Risk
Clearing of vegetation; Topsoil & subsoil stripping; & stockpiling for the new TSF (expansion to Kinross)	Change in land use to mining.		Moderate
Clearing of vegetation; Topsoil & subsoil stripping; & stockpiling for the new TSF (expansion to Kinross)	Alien invasive establishment and bush encroachment.	<p>REMEDY Rehabilitate all disturbed areas and seed with local indigenous species.</p> <p>CONTROL Clear all vehicles coming to site of any vegetative material to prevent introduction and spread of potential alien and invasive species. Compile and implement an alien invasive species management plan. Mechanical methods should be utilised in preference to chemical methods. Dispose of the eradicated plant material at an approved solid waste disposal site.</p>	Moderate - Low
Clearing of vegetation; Topsoil & subsoil stripping; & stockpiling for the new TSF (expansion to Kinross)	Destruction of protected species.	<p>REMEDY As far as possible species should be transplanted to suitable nearby habitat.</p> <p>CONTROL Specialist will have to walk area and plot all protected species. Preserve all other species <i>in situ</i>. Prohibit the harvesting of indigenous trees for firewood and general flora in the area.</p> <p>STOP Protected species cannot be removed until the necessary permits are obtained under NEM:BA.</p>	Low

Activity	Impact	Mitigation	Potential for Residual Risk
Clearing of vegetation; Topsoil & subsoil stripping; & stockpiling for the new TSF (expansion to Kinross)	Loss of biodiversity through vegetation clearance and habitat destruction	<p>CONTROL</p> <p>Demarcate designated activity area to ensure only flora in that area is affected. Prioritise low sensitivity areas (crop and pasture areas) rather than natural areas where feasible.</p> <p>Formalise access roads and make use of existing roads and tracks where feasible, rather than creating new routes through naturally vegetated areas.</p> <p>No open fires must be allowed on site such as for cooking.</p> <p>Prohibit the harvesting of indigenous trees for firewood and indigenous flora in general.</p> <p>Do not hinder, harm, or trap animals.</p> <p>Maintain ecological corridors associated with wetlands and their buffer zones.</p> <p>STOP</p> <p>100m buffer zones / 1:100 year flood lines will be demarcated as no-go areas and no activity will proceed through such areas until authorisations are in place.</p>	Low
Clearing of vegetation; Topsoil & subsoil stripping; & stockpiling for the new TSF (expansion to Kinross)	Alienation of, and disturbance to, animals and loss of roost and foraging sites for birds and bats.	<p>CONTROL</p> <p>Keep areas of vegetation clearance to a minimal.</p> <p>Do not hinder, harm, or trap animals.</p> <p>Maintenance of wetlands and associated natural vegetation will provide ecological corridors and refuges for animals.</p> <p>Animals or protected flora under threat from the development will be relocated from site by specialists.</p>	Low

Activity	Impact	Mitigation	Potential for Residual Risk
		Noise control measures will be considered.	
Clearing of vegetation; Topsoil & subsoil stripping; & stockpiling for the new TSF (expansion to Kinross)	Dust generation and particulate matter.	<p>CONTROL</p> <p>Speed limits must be established on dirt roads.</p> <p>Stockpile heights must not exceed 2m for topsoil, 6m for subsoil.</p> <p>Vegetate soil stockpiles and berms and all exposed areas.</p> <p>Manage dust through water carts or sprinklers.</p> <p>Consider windbreaks, enclosures, shelters or misting in very dusty areas.</p>	Low
Clearing of vegetation; Topsoil & subsoil stripping; & stockpiling for the new TSF (expansion to Kinross)	Increased noise levels.	<p>CONTROL</p> <p>Machinery and equipment will be regularly serviced.</p> <p>Noise control measures will be considered such as erecting sound barriers (berms), soundproofing of point sources, use of silencers, using strobe lights rather than beepers where feasible and where this won't compromise safety of people on site.</p> <p>Machinery will be maintained within operational noise limits and will be switched off when not in use.</p> <p>Mine will consider conducting noisy activities during the day as far as possible.</p>	Moderate - Low
Clearing of vegetation; Topsoil & subsoil stripping; & stockpiling for the new TSF (expansion to Kinross)	Loss of and disturbance to archaeological / heritage sites	<p>STOP</p> <p>Cultural site and graves uncovered during operations will be cordoned off, and marked as no-go zones and evaluated by a specialist before proceeding with further activity.</p>	Low

Activity	Impact	Mitigation	Potential for Residual Risk
Re-processing and rehabilitation of existing TSFs	Increased dust and associated particulate matter emissions.	CONTROL Apply dust control measures such as water spray or misting during times of high dust generation.	Low
Site activities	Emissions into the atmosphere through use of diesel powered equipment, machinery and vehicles.	CONTROL Machinery and equipment will be regularly serviced to ensure they are in proper working condition and to reduce risk of excessive emissions.	Low
Re-processing and rehabilitation of existing TSFs	Increased risk of contamination and siltation to downstream areas through residue mobilisation.	CONTROL Apply storm water runoff management measures to ensure impact area is contained to activity area to ensure all water runoff and spilled slurry in the area is contained and ensure no discharge to the environment.	Low
Re-processing and rehabilitation of existing TSFs	Eradication of two dumps and profiling and rehabilitation of surface area.	-	Moderate
Re-processing and rehabilitation of existing TSFs	Free drainage restored to area and downstream flow restored	-	Moderate - Low
Re-processing and rehabilitation of existing TSFs	Revegetation and floral community establishment and succession. Influx of Animals to the area	-	Moderate - Low

Activity	Impact	Mitigation	Potential for Residual Risk
	once vegetation establishes.		
Re-processing and rehabilitation of existing TSFs	Alien invasive establishment and bush encroachment.	<p>REMEDY Rehabilitate all disturbed areas and seed with local indigenous species.</p> <p>CONTROL Clear all vehicles coming to site of any vegetative material to prevent introduction and spread of potential alien and invasive species. Compile and implement an alien invasive species management plan. Mechanical methods should be utilised in preference to chemical methods. Dispose of the eradicated plant material at an approved solid waste disposal site.</p>	Moderate - Low
Expansion of Kinross TSF (mine residue)	Dump will permanently alter the topographical nature of the area.	<p>CONTROL Ensure dump design and development follows engineered designs at all times. The sides will be concurrently vegetated as the dump develops. Ensure proper erosion control measures.</p>	Moderate
Expansion of Kinross TSF (mine residue)	Increased dust and associated particulate matter emissions.	<p>REMEDY Ensure dump design and development follows engineered designs at all times. The sides will be concurrently vegetated as the dump develops.</p> <p>CONTROL Apply dust control measures and storm water runoff management measures to ensure impact</p>	Low

Activity	Impact	Mitigation	Potential for Residual Risk
		area is contained to dump area and all water runoff and seepage is contained to site.	
Expansion of Kinross TSF (mine residue)	Increased risk of contamination through runoff and seepage from mine residue dump.	<p>REMEDY Ensure dump design and development follows engineered designs at all times. The sides will be concurrently vegetated as the dump develops</p> <p>CONTROL Apply storm water runoff management measures to ensure impact area is contained to dump area and all water runoff and seepage is contained. Install downstream monitoring boreholes and monitor for potential contaminated seepage. If needed install downstream cut-off trench and direct seepage to RWD. Apply good housekeeping practices and ensure TSF is constantly maintained.</p>	Moderate - Low
Expansion of Kinross TSF (mine residue)	Flow reduction to downstream water catchment due to containment of dirty water runoff.	<p>REMEDY Keep dirty water runoff areas as small as possible to increase clean water runoff footprint area. Once any area is rehabilitated, runoff must be allowed to flow naturally to the environment as soon as such areas become stable.</p> <p>CONTROL Necessary measure to contain dirty water runoff.</p>	Moderate
Expansion of Kinross TSF (mine residue)	Alteration in visual aesthetics and sense of place.	<p>REMEDY Visual screens (vegetated berms, trees or wind breaks) will be considered where necessary. All berms and soil stockpiles will be vegetated.</p>	Moderate - Low

Activity	Impact	Mitigation	Potential for Residual Risk
		Apply dust control measures and other environmental measures to ensure impact area is contained. Apply good housekeeping practices.	
Dirty water containment facilities/dams	Increased risk of contamination through seepage or spills to the environment.	<p>REMEDY Inspect, maintain and repair all water management features including dams, trenches, pipelines and pumps. Follow emergency response plan for spills and keep back-up pumps and pipes on site.</p> <p>CONTROL Ensure all dirty water facilities are adequately sized, designed and constructed (GN704). All dams will be constructed and lined as per designs and managed with a 0.8m freeboard. All pollution control facilities must be managed in such a way as to ensure that storage and surge capacity is available if a rainfall event occurs. Install monitoring boreholes downstream of the dirty water dams to monitor for seepage.</p> <p>STOP Dams will remain outside 100m buffer zones / 1:100 year flood lines unless authorisation is obtained to do so.</p>	Low
Water supply, pumping and reticulation	Irresponsible use of water and water wastage through leaks which will alter downstream water dynamics	<p>REMEDY Inspection of ALL water features for leaks and repair immediately.</p> <p>CONTROL Saving water initiatives will be included in environmental awareness training.</p>	Low

Activity	Impact	Mitigation	Potential for Residual Risk
		Utilise water on site responsibly. Record all water usage on site via flow meters.	
Slurry reticulation Water supply, reticulation & storage	Increased risk of contamination and siltation to downstream areas though leaks in slurry pipelines.	REMEDY Inspect, maintain and repair pipelines and pumps. Follow emergency response plan for spills. Keep back-up pumps and pipes on site. CONTROL Pipelines should be laid within the dirty water footprint area or paddocks must be established in clean water area which will serve to contain any leaks. Pipelines should have a series of shut-off valves which can prevent flow of contaminated water should leaks occur. STOP Dirty water pipelines will remain outside 100m buffer zones / 1:100 year flood lines until authorisations under NWA have been obtained where needed.	Moderate - Low
Establishment of Carbon in Leach (CIL) plant and associated infrastructure			
Plant and associated infrastructure	Excavation for the establishment of foundations will generate dust.	CONTROL Manage dust through water carts or sprinklers. Consider windbreaks, enclosures, shelters or misting must be considered for very dusty areas.	Low

Activity	Impact	Mitigation	Potential for Residual Risk
Plant and associated infrastructure & Processing	Increased noise levels.	<p>CONTROL</p> <p>Machinery and equipment will be regularly serviced.</p> <p>Machinery will be maintained within operational noise limits and will be switched off when not in use.</p>	Low
Plant and associated infrastructure & Processing	Emission of particulate matter	<p>CONTROL</p> <p>All control measures must be applied as per industry best practices such as stacks over combustion units, air scrubbers and / or filters.</p>	Moderate
Plant and associated infrastructure	Deterioration in visual aesthetics and sense of place.	<p>REMEDY</p> <p>Apply dust control measures and other environmental measures to ensure impact area is contained.</p> <p>Apply good housekeeping practices.</p>	Low
Slurry handling, generation and pumping	Increased risk of contamination and siltation to downstream areas through slurry leaks and spills.	<p>REMEDY</p> <p>Inspect, maintain and repair pipelines and pumps.</p> <p>Follow emergency response plan for spills.</p> <p>Keep back-up pumps and pipes on site.</p> <p>CONTROL</p> <p>Ensure water management measures are established before any other activities commence at the plant to ensure dirty water containment.</p> <p>Ensure water separation and dirty water containment on site as per GN704 requirements.</p> <p>All dams will be constructed and lined as per designs and operated with a 0.8m freeboard.</p> <p>Pipelines should be laid within the dirty water</p>	Moderate - Low

Activity	Impact	Mitigation	Potential for Residual Risk
		<p>footprint which will ensure containment within dirty water management area should spills or leaks occur.</p> <p>Pipelines should have a series of shut-off valves which can prevent flow of contaminated water should leaks occur.</p>	
Chemical / Reagent Storage	Potential contamination on surface through improper storage of chemicals, which could impact the environment through runoff and seepage.	<p>REMEDY</p> <p>Ensure appropriate spill kits are available on site to clear chemical spills and ensure staff is trained to utilise these or have access to appropriate specialists.</p> <p>CONTROL</p> <p>Materials will be stored within designated areas at all times within concrete bunded areas. Designated areas should be enclosed with appropriate signs and not be exposed to the elements.</p> <p>Chemicals will be stored as per requirements with the MSDS.</p> <p>Wet and dry chemicals, reducing and oxidising agents, will be stored separately.</p>	Low

Activity	Impact	Mitigation	Potential for Residual Risk
Diesel Storage	Potential hydrocarbon contamination on surface which could impact the environment through runoff and seepage.	<p>REMEDY Spill kits must be available on site and personnel trained to utilise these to clear spills.</p> <p>CONTROL All diesel storage must be within concrete bunded areas that contain 110% of storage capacity if roofed or 120% storage capacity if not roofed and in accordance with SANS standards. Refuelling and transfer areas are to be concreted. Bunds in workshop, wash bay and fuel storage facility will be fitted with an outlet valve and drain to an oil trap. The outflow will flow through an oil trap and water component will be treated and recycled as process water. Oil from oil traps will be removed to the used hydrocarbon drums which will be temporarily stored in concrete bunded areas prior to removal from site by a reputable hydrocarbon waste contractor.</p>	Moderate - Low
Dirty water containment facilities/dams	Increased risk of contamination through seepage or spills to the environment.	<p>REMEDY Inspect, maintain and repair all water management features including dams, trenches, pipelines and pumps. Follow emergency response plan for spills and keep back-up pumps and pipes on site.</p> <p>CONTROL Ensure all dirty water facilities are adequately sized, designed and constructed (GN704). All dams will be constructed and lined as per designs and managed with a 0.8m freeboard. All pollution control facilities must be managed in such a way as to ensure that storage and surge</p>	Low

Activity	Impact	Mitigation	Potential for Residual Risk
		capacity is available if a rainfall event occurs. Install monitoring boreholes downstream of the dirty water dams to monitor for seepage.	
Potable Water supply & reticulation	Irresponsible use of water and water wastage.	REMEDY Inspection of ALL plumbing and bathrooms to ensure no leaks CONTROL Saving water initiatives will be included in environmental awareness training. Utilise water on site responsibly. Record all water usage on site.	Low
Ablutions & change house with sewage treatment plant	Potential contamination of surface water bodies with sewage and nutrient enrichment of aquatic environments.	REMEDY Inspection of ALL plumbing, pipelines and bathrooms to ensure no leaks, which will be repaired immediately CONTROL Keep all bathrooms in clean and hygienic state.	Low
Waste generation	Potential surface contamination which will impact surrounding areas through runoff and seepage.	REMEDY Inspect and clear all litter and waste. CONTROL Waste storage area will be treated as a dirty area and any runoff from site must be contained. Waste should be recycled as far as possible and sold/given to interested contractors. Waste will be stored according to the Norms and Standards for Storage of Waste. Recyclable waste should not be stored for excessive periods.	Moderate - Low

Activity	Impact	Mitigation	Potential for Residual Risk
		Chemical waste must be stored as per MSDSs and not stored on site for excessive periods. General waste must be collected and disposed of at a registered waste disposal site.	
Overall development and associated activities on site			
Site activities	Employment opportunities	Implementing a "local first" recruitment policy. Ensure that the local jobs created are linked to a skills development programme for permanent employment.	Moderate
Site activities	Local / Regional business	Adopt preferential procurement policies towards local suppliers and distributors. Ensuring that principle of "local first" when procuring consumables, construction materials etc.	Moderate

12 ITEM 2(I): OTHER INFORMATION REQUIRED BY THE COMPETENT AUTHORITY

12.1 Impact on the Socio-economic Conditions of any Directly Affected Person

No socio-economic studies are currently proposed.

Activities associated with the project will be limited to EGM's approved mining right area as far as possible. Where EGM is not the surface rights' holder, negotiations with the landowner will commence to either acquire or lease the land.

Linear activities (pipelines) will be constructed within existing servitudes registered in favour of EGM.

12.2 Impact on any National Estate referred to in Section 3(2) of the National Heritage Resources Act

SAHRA has been notified as an organ of state and has been notified of the project through the various PPP procedures described in this Scoping Report. A Phase I heritage assessment was completed for the project area in 2011. The findings of this assessment will be incorporated into the EIA / EMPr for submission to SAHRA.

12.3 Other matters required in terms of Section 24(4)(a) and (b) of the Act

Section 24(4) (b) (i) of the Act specifies "investigation of the potential consequences or impacts of the alternatives to the activity on the environment and assessment of the significance of those potential consequences or impacts, including the option of not implementing the activity".

This has been addressed in the relevant sections above.

Site and layout alternatives are limited, but have been detailed in the Scoping Report. Any further changes will be described and motivated in the EMPr once the specialist studies are completed.

13 UNDERTAKING REGARDING CORRECTNESS OF INFORMATION

I, _____, herewith undertake that the information provided in the foregoing report is correct, and that the comments and inputs from stakeholders and Interested and Affected parties have been correctly recorded in the report.

Signature of the EAP

DATE:

14 UNDERTAKING REGARDING LEVEL OF AGREEMENT

I, _____, herewith undertake that the information provided in the foregoing report is correct, and that the level of agreement with Interested and Affected Parties and stakeholders has been correctly recorded and reported herein.

Signature of the EAP

DATE:

-END-

15 REFERENCES

Mucina, L. and Rutherford, M.C. (eds) 2006. *The vegetation of South Africa, Lesotho and Swaziland. Strelitzia 19*. South African National Biodiversity Institute, Pretoria.

SLR Consulting (South Africa) (Pty) Ltd. 2016. *NR01 – Site Selection*.

Shangoni Management Services, 2013. *Environmental Management Programme*. Project Number: HAR_EVA_12-07-19.

Aquisim Consulting (Pty) Ltd, 2016. *Evander Hydrogeological Groundwater Flow and Mass Transport Model Development & Update*.

African Heritage Consultants, 2010. *Cultural Heritage Resources Impact Assessment for Harmony Gold Mine, Evander*.

De Wet, K. 2011. *Evander Gold Mine Terrestrial Biodiversity Survey*.

Limosella Consulting, 2011. *Harmony Gold Mining Co. Ltd's Evander Operations Property Area, Mpumalanga Province. Wetland Assessment Report*.

Local Government, 2011. *Govan Mbeki Local Municipality*. [ONLINE] Available at <http://www.localgovernment.co.za/locals/view/149/Govan-Mbeki-Local-Municipality#map> [Accessed 1 September 2016].

APPENDIX 1: CURRICULUM VITAE OF EAP

DRAFT

Postal address: Postnet Suite 470, P/Bag X3, Northriding, 2162, South Africa

Phone: +27 11 794 7534 (w) 083 236 0169 (C)

E-mail: jane@cabangaconcepts.co.za

Nationality: South African

Languages: English and Afrikaans

Date of Birth: 01 September 1981

QUALIFICATIONS

- 2015** **University of Cape Town**
Certificate in Advanced Project Management
- 2015** **Terra Firma Academy**
Certificate in Carbon Footprint Analyst
- 2013** **University of South Africa (completed part time)**
Bachelor of Science (B.Sc)
- Majors: Environmental Management and Botany
Minors: Archaeology, Chemistry, Geology, Statistics, Terrestrial & Aquatic Ecology,
Hydrology, GIS, Computer Skills, Environmental Law and Ethics
** All practical components were undertaken through the North-West University*
- 2001** **The Estate Agency Affairs Board South Africa**
South African Property and Real Estate Law (Certified Estate Agent)
- 1999** **John Ross College**
Matric with Exemption

AFFILIATIONS AND REGISTRATIONS:

Member of the Environmental Law Association, South Africa

Member of the International Association for Impact Assessment, South Africa

Member of the International Association for Public Participation, Southern Africa

SHORT COURSES AND WORKSHOPS

- 2015** **NEMA: One Environmental System**
Imbewu Sustainability Legal Specialists
- 2015** **NEMA: Environmental Impact Assessment Regulations**
Imbewu Sustainability Legal Specialists
- 2014** **NEMA: Environmental Impact Assessment Regime**
Gauteng Department of Agriculture and Rural Development

2014	Waste Management Act Amendments Mac Roberts Attorneys
2013	Environmental and Mining Law Mac Roberts Attorneys
2012	Practical Implementation of BEE EconoBEE
2011	Practical Understanding of South African Waste Legislation, Integrated Waste Management Planning & Waste Classification CBS Solution
2011	National Environmental Management Act & NEM:Waste Act EcoLaw

WORK EXPERIENCE

2006 - Current	<p>Cabanga Concepts Environmental Consultants <u>Environmental Professional / Project Manager</u></p> <ul style="list-style-type: none"> • Project and account management • Budget management • Proposals • Client liaison • Undertake site investigations (greenfields and operational areas) • Review of specialist studies • Document quality control • Compilation of environmental legal registers • Environmental compliance audits specifically with regards to industry and mining • Due diligence investigations in support of business merges and/or acquisitions within the mining industry • Fatal Flaws Analysis for proposed projects • Compilation of mining right and prospecting right applications in terms of the Mineral and Petroleum Resources Development Act • Environmental licensing and permitting: <ul style="list-style-type: none"> ○ Section 102 applications (MPRDA) ○ General Authorisations & Water Use Licensing (NWA) ○ Integrated Water and Waste Management Plans ○ Atmospheric Emission License Applications (NEM:AQA) ○ Waste Management License (NEM:WA) • Compilation of Scoping Reports, Impacts assessments and Management Plans • Assisting with the compilation of documents for World Bank Projects (IFC Standards / Equator Principles) • Compilation of emergency response and environmental handbooks • Taking of water samples
-------------------	---

- Undertaking the Public Participation Process for proposed and existing operations in industry and mining
- Liaison and follow up with licensing authorities
- Collaborating with mineral and environmental lawyers in responding to corrective notices and directives issued in terms of the various legislation
- Applications for permits in terms of the National Heritage Resources Act

2002 – **Digby Wells & Associates Environmental Consultants**
2006 PA to the Executive Committee

- Assist EXCO board with administration duties, review and formatting of reports, general office management, authorities liaison, assist with public participation and other general ad hoc duties.

2000 – **Realty Executives**
2002 Candidate Estate Agent

- Management of rental properties, general office management and administration

OTHER

- Proficient in Microsoft Office Suite (Excel, Word, Outlook etc.)
- Familiar with SANBI GIS and Land Use Decision Support Tool (LUDS)
- Proficient in the following South Africa Legislation:
 - The Constitution of South Africa, 1996 (Act 108 of 1996)
 - The Minerals and Petroleum Resources Development Act (Act 28 of 2002)
 - The National Environmental Management Act, 1998 (Act 107 of 1998)
 - The Environmental Conservation Act, 1989 (Act 73 of 1989)
 - The Conservation of Agricultural Resources Act (Act 43 of 1983)
 - The National Environmental Management: Biodiversity Act, 2004 (Act No. 10 of 2004)
 - The National Environmental Management: Protected Areas Act, 2004 (Act 31 of 2004)
 - The National Environmental Management: Air Quality Act (Act 39 of 2004)
 - The National Environmental Management: Waste Management Act (Act 59 of 2008)
 - The National Heritage Act, 1999 (Act 25 of 1999)
 - The National Water Act, 1998 (Act 36 of 1998)
 - The Water Services Act, 1997 (Act 108 of 1997)
 - The National Veld & Forest Fire Act, 1998 (Act No 101 of 1998)
 - The National Road Traffic Act, 1996 (Act 93 of 1996)
 - The Hazardous Substances Act, 1973 (Act 15 of 1973)
 - The Petroleum Products Act, 1977 (Act 120 of 1977)
 - The National Nuclear Reactor Act, 1999 (Act 47 of 1999)
 - The Explosives Act, 1956 (Act 73 of 1989)
 - The Fencing Act, 1963 (Act 31 of 1963)
 - Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act 36 of 1947)
 - The Occupational Health & Safety Act, 1993 (Act 85 of 1993)
 - The Mine Health & Safety Act, 1996 (Act 29 of 1996)

- The Consumer Protection Act, 2008 (Act 68 of 2008)
- The Second Hands Good Act, 2009 (Act 6 of 2009)

LIST OF PROJECTS:

The following is a list of projects which I have completed over the last few years:

- Eyethu Coal, Welgelegen Colliery, IWUL Audit, 2015.
- Eyethu Coal, Leeuwpoot Colliery, IWUL Audit, 2015.
- Shiva Uranium, Environmental Compliance Report, 2015.
- Exxaro, Tumelo Colliery, Water Balance Report, 2015.
- G&W Base Minerals, Prospect & Sahara Bentonite Prospecting, Basic Assessment and Environmental Management Plan, 2015.
- G&W Base Minerals, Prospect & Sahara Bentonite Prospecting, Prospecting Right Application and Prospecting Works Programme, 2015.
- IG Chem, Olifantsfontein Plant, 24G Application for Rectification & Continuation Impact Assessment & Management Plan, 2015.
- Pembani Coal Carolina, Water Use License Application and associated Integrated Water & Waste Management Plan, 2015.
- G&W Base Minerals, Koppies Bentonite Mine, Atmospheric Emission License Application, 2015.
- Eyethu Coal, Leeuwpoot Colliery, EMP Performance Assessment, 2014.
- Eyethu Coal, Mooifontein Colliery, EMP Performance Assessment, 2014.
- Eyethu Coal, Welgelegen Colliery, EMP Performance Assessment, 2014.
- G&W Base Minerals, Benadeplaats Limestone Mine, EMP Performance Assessment, 2014.
- G&W Base Minerals, Koppies Bentonite Mine EMP Performance Assessment, 2014.
- Vantage Goldfields, Barbrook & Lilly, Assessment on the Environmental Status, 2014.
- Transasia, Malonjeni Colliery, Water Use License Application, 2014.
- Pembani Coal Carolina, Environmental Compliance Audit, 2011 - 2014
- Sudor Coal, Halfgewonnen Colliery, NEMA Post Construction Audit, 2013.
- Droogvallei Rail Siding Company, Environmental Compliance Audit, 2013.
- Droogvallei Rail Siding Company, IWUL Audit, 2013.
- Overlooked Colliery, Section 8: Prospecting Progress Report, 2013.
- Umcebo, Kleinfontein Colliery, IWUL Audit, 2013.
- Overlooked Colliery, Monthly Monitoring & Inspections, 2012 – 2013.
- Sudor Coal, Halfgewonnen Colliery, IWUL Audit, 2012.
- Idwala, Vierfontein Colliery, Environmental Compliance Audit, 2012.
- Homelands Mining & Energy, Kendal Colliery, 24G Application for Rectification & Continuation Impact Assessment & Management Plan, 2012.
- Shanduka Coal, Kendal Siding, EMP Performance Assessment, 2012.
- Worldwide Coal Carolina, Road Deviation Basic Assessment and Environmental Management Plan, 2012.
- Norwesco Mining, Brakfontein Colliery, Environmental Compliance Audit, 2011.
- Miranda Coal, Sesikhona Colliery, Environmental Compliance Audit, 2011.
- Miranda Coal, Burnside Colliery, Environmental Compliance Audit, 2011.

- Homelands Mining & Energy, Northfields Slurry Dump, EMP Compliance Audit, 2011.
- Droogvallei Rail Siding Company, Integrated Water Use License Compliance Audit, 2011
- Worldwide Coal Carolina, Quarterly Report to the Board on the Environmental Issues, 2010 - 2011.
- Overlooked Colliery, Prospecting Environmental Management Plan, 2010.
- Homelands Mining & Energy, Kendal Colliery, EMP Compliance Audit, 2010.
- Worldwide Coal Carolina, Environmental Handbook & Training, 2010.
- Shanduka Coal, EMP Performance Assessment – *annually for various operations*, 2009 – 2012.
- Worldwide Coal Carolina, Environmental Compliance Audit and Performance Assessment, 2009 – 2012.
- Black Wattle Colliery, EMP Performance Assessment, 2009.
- Worldwide Coal Carolina, Water Use License Application and associated Integrated Water & Waste Management Plan, 2009.
- Galvrite Galvanising, Randfontein Plant, Environmental Audit, 2009.
- Droogvallei Rail Siding Company, Integrated Water Use License Application, 2009.
- Shanduka Coal, Monitoring & Compliance – *monthly for various operations*, 2008 – 2012
- Shanduka Coal, Uitkyk Siding, Environmental Management Plan, 2008.
- Shanduka Coal, Graspan Colliery, NEMA Authorisation & Basic Assessment for fuel storage, 2008.
- Badger Mining, Kiepersol Colliery, Liability Assessment, 2007.
- PMG, Postmasburg Manganese, Section 8: Prospecting Progress Report, 2007.
- Umcebo, Due Diligence Investigation, 2007.
- Harmony Gold, Randfontein, Rehabilitation and Liability Assessment, 2006.
- Mandarin Investments, Duration Projects Zimbabwe, Environmental Risk Assessment, 2006.
- Badger Mining, Maamba Collieries, Environmental Risk Assessment, 2006.
- BVI, Uitkomst Colliery Integrated Water Use License Application, 2006.
- Mashala Resources, Delta Colliery, Environmental Audit, 2006.
- *Confidential*: various due diligence investigations, 2006 – current.

In addition to the above, I have been involved in a long list of projects where I was the project manager involved with the planning, management and review of the reports and various specialists; but was not directly responsible for the compilation of the various reports/studies.

REFERENCES

1. Ken van Rooyen, Geologist and Environmental Scientist: kenvr@telkomsa.net
2. Dr. Barbara Kasl, Entomologist: barbs@cabangaconcepts.co.za
3. Esme Ferreira, Environmental Lawyer: eferreira@tiscali.co.za

Postal address: 49 Eagle Terrace, Apple Street, Randparkrif

Phone: +27 11 794 7534 (w) +27 (0) 71 988 6773 (C)

E-mail: barbs@cabangaconcepts.co.za

Nationality: Czech

Languages: English, Afrikaans and Czech

Date of Birth: 16 September 1976

EDUCATION

Tertiary Institute:University of the Witwatersrand

- 2002-2004: PhD (Animal, Plant and Environmental Sciences)
- 1999-2001: MSc (upgraded to PhD)
- 1998: B.Sc. Hon. (Zoology and Botany)
- 1995-1998: BSc (Zoology and Botany)

PROFESSIONAL EXPERIENCE

01/2008 – Current: ENVIRONMENTAL SCIENTIST - Cabanga Concepts cc. Environmental consultancy and specialising in all environmental authorisation processes.

09/2004 – 11/2007: UNIT MANAGER FOR THE BIOPHYSICAL DEPARTMENT - Digby Wells and Associates. Specialising in Fauna and Flora Reports and also full environmental authorisation processes including EIA and EMP reports. International projects included Etoile Mine in DRC, Randgold Mine in Mali, Valencia uranium green-field mine in Namibia, Mmamabula coal mine and power plant in Botswana.

09/2003 – 11/2003: VISITING POSTGRADUATE STUDENT RESEARCHER - Pole de Protection des Plantes (CIRAD). Projects: to determine sugarcane borer (*Chilo Sacchariphagus*) neonate larval behaviour on two varieties of sugarcane plants and determine if SASEX rearing diet is adequate for *Chilo Sacchariphagus* rearing (Saint Pierre, Reunion Island, France).

1999 –2002: MSc AND PhD STUDENT - South African Sugar Experiment Station (SASEX)– On site research for MSc and PhD degrees to determine habitat management strategies to control sugarcane borer (*Eldana saccharina*) in South African sugarcane (Mnt. Edgcombe, R. S. A.).

1999-2000: RESEARCH TECHNICIAN - SASEX contract work for Deciduous Fruit Producers Trust (DFPT) (Mnt. Edgcombe, R. S. A.). To determine effects of temperature on fruit fly mortality in fruits.

1997-1999, 2001: LABORATORY DEMONSTRATOR AND TUTOR - University of the Witwatersrand (Johannesburg, R. S. A.).

- Teaching assistant for College of Science I and II (1998-1999, 2001)
- Teaching assistant for 1st year Medics (1998-1999, 2001)
- Tutor for College of Science (2001)
- Catering for 3rd year Zoology Field excursion (1999)
- Demonstrating to various age groups at the “Yebo Gogga” insect exhibition at the Johannesburg Zoo (1997-1999)

2001: **PRIVATE TUTOR** - Private tutoring for first year student.

1993-1998: **PART-TIME JOBS**

COURSES AND WORKSHOPS

21 October 2010: NEM: Air Quality Act course through IMBEWU Sustainability Legal Specialists (Pty) Ltd

August 2009: NEMA and NEMWA course through ECOLAW

14 Nov 2007: Environmental Impact Assessment Training

28 Feb – 2 Mar 2007: Project Management for Non-Project Managers Course through Astro Tech

29th Sep 2006: Unilever Introduction to Managing Environmental Water Quality - Practical, Theoretical and Policy; through Institute for Water Research – RHODES University.

19-21 Sep 2005: Non-credited course in River health and SASS5 rapid methodology of water quality assessment through NEPID Consultants

20 May 2005: Snake Identification and Snakebite Treatment Course

AWARDS RECEIVED

2004: R 36 000 THRIP Student Bursary

2003: R 36 000 THRIP Student Bursary

2002: R 30 000 THRIP Student Bursary

2000: R 10 000 Merit Award Bursary – University of Witwatersrand

 R 18 000 South African Sugar Association Experiment Station Student Bursary

1999: R 10 000 Merit Award Bursary – University of Witwatersrand

PROFESSIONAL MEMBERSHIPS

- **2008-CURRENT:** Entomological Society of South Africa
- **2008-CURRENT:** International Association for Impact Assessment
- **2001:** Entomological Society of South Africa
- **1999:** Entomological Society of South Africa
- **1998:** Zoological Society of Southern Africa

CONFERENCES, PUBLICATIONS & TALKS

Kasl, B.*; Conlong, D. E. and Byrne, M. J. (2003) Push-pull strategy to decrease *Eldana saccharina* Walker (Lepidoptera: Pyralidae) infestations in southern African sugarcane.

4 November 2003, Pole de Protection des Plantes, Saint Pierre, Reunion Island, France

Kasl, B.*; Conlong, D. E. and Byrne, M. J. (2003) Creating semiochemical diversions to control sugarcane borers. *Biocontrol News and Information* 24(2). **Article**

Conlong, D. E.; Kasl, B.* (2001) Stimulo-deterrent diversion, *Eldana saccharina* Walker (Lepidoptera: Pyralidae) and *Xanthopimpla stemmator* Thunberg (Hymenoptera: Ichneumonidae), preliminary results. *Proceedings of the South African Sugar Technologists' Association* 75. **Talk & Paper**

Kasl, B.*; Byrne, M. J. and Conlong, D. E. (2001) Towards a stimulo-deterrent strategy to control *Eldana saccharina* Walker (Lepidoptera: Pyralidae), a sugarcane borer of economic importance. Abstracted in the Proceedings of the 13th Entomological Society of Southern Africa, pg. 32. Pietermaritzburg, Kwa-Zulu Natal, R. S. A., 2-5 July 2001. ISBN: 0-620-27806-4. **Talk**

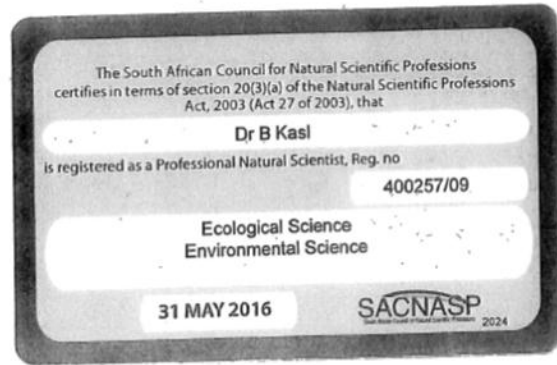
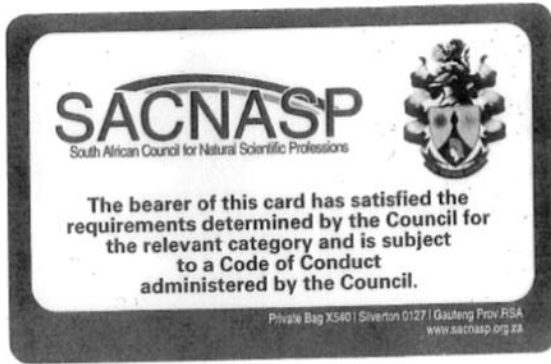
Conlong, D. E.* and Kasl, B. (2001) Stimulo-deterrent diversion as a control option for *Eldana saccharina* Walker (Lepidoptera: Pyralidae), an indigenous pest of sugarcane in southern Africa. 24th ISSCT conference, Brisbane, Australia, 16-20 September 2001. **Poster**.

Conlong, D. E.*; Kasl, B. (2000) Stimulo-deterrent diversion to decrease infestation in sugarcane by *Eldana saccharina* (Lepidoptera: Pyralidae). *Proceedings of the South African Sugar Technologists' Association* 74. **Talk & Paper**

Kasl, B.*; Knell, R.; Byrne, M. J. (1999) Female mate choice in *Euoniticellus intermedius* (Reiche) (Coleoptera: Scarabaeidae). Abstracted in the Proceedings of the 12th Entomological Society of Southern Africa, pg. 64. Potchefstroom, North-Western Province, R. S. A., 12-15 July 1999. ISBN: 1-86849-122-6. **Talk**.

Kasl, B.*; Mason, M. C.; Passmore, N. I. (1998) The effects of male size and sociality on waving frequency in the fiddler crab, *Uca annulipes*. Abstracted in Zoological Society of Southern Africa (ZSSA) Symposium – African Trends and Future Perspectives, pg. 98. Durban, Kwa-Zulu Natal, R. S. A., 6-10 July 1998. **Poster**.

(* - presenter)



THE INTERIM CERTIFICATION BOARD FOR
ENVIRONMENTAL ASSESSMENT PRACTITIONERS
OF SOUTH AFRICA

P.O. Box 1749, Noordhoek, 7979
Email: eacertify@intekom.co.za
Website: www.eapsa.co.za
Tel / Fax: 021 - 7891385

20 December 2014

Barbara Kasl
Postnet Suite 470
Private Bag X3
2162

Dear Barbara

CERTIFICATION AS AN ENVIRONMENTAL ASSESSMENT PRACTITIONER

The Interim Certification Board for Environmental Assessment Practitioners of South Africa have decided to approve your certification as an Environmental Assessment Practitioner (EAP).

We would like to remind you of your obligations (with reference to Section 7 of your Application Form) as a certified EAP to practice in accordance with Section 6 of our Information Booklet, namely "Conduct and Code of Ethics". You will be notified of any changes to the Code as and when appropriate. Please note that, as a certified EAP, you should abide by IAIA's draft Code of Practice.

We believe that strict application of these Codes is the best assurance for authorities, clients, interested and affected parties and other EAPs that certification helps to uphold professional standards, and provides some level of assurance about the quality of environmental assessment in South Africa.

Yours sincerely

MAITLAND SEAMAN
(CHAIRPERSON)

THIS CERTIFICATION INITIATIVE IS ENDORSED BY:
Association for the Advancement of Black Scientists, Engineers and Technologists; The Association of Consulting Town & Regional Planners; Department of Arts, Culture, Science and Technology; Department of Environmental Affairs and Tourism; The Environmental Law Association; International Association for Impact Assessment South African Affiliate; Institute of Landscape Architects of South Africa; Institute of Waste Management Southern Africa; The South African Association of Consulting Engineers; South African Black Technical and Allied Careers Organisation (Western Cape); South African Council for the Landscape Architectural Profession; South African Institute of Architects; South African Institution of Civil Engineering; Southern African Institute of Ecologists and Environmental Scientists; Water Institute of Southern Africa.

APPENDIX 2: APPROVED MINING RIGHT AND LIST OF INCLUDED FARMS


DRAFT



**DEPARTMENT: MINERAL RESOURCES
REPUBLIC OF SOUTH AFRICA**

AMENDMENT/VARIATION OF A MINING RIGHT

Granted in terms of section 102 of the Mineral and Petroleum Resources Development Act,
2002
(Act No. 28 of 2002)


MARTHIE PRINSLOO
NOTARIS / NOTARY
WCMAS GEBOU, EMALAHLENI
R.S.A.

NH
SM

Protocol No: 20 /2013
File Ref No 126 MR
Application No

NOTARIAL DEED OF AMENDMENT/VARIATION OF A MINING RIGHT

BE IT HEREBY MADE KNOWN:

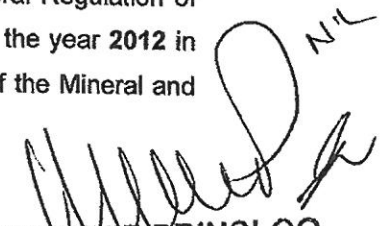
That on this the 30 day of October in the year 2013 before me, Marthie Prinsloo, Notary Public, duly sworn and admitted, residing and practising at WITBANK, in the MPUMALANGA Province of South Africa, and in the presence of the undersigned witnesses personally came and appeared;

Meshack Sunday Mabaso Acting Regional Manager, MPUMALANGA of the Department of Mineral Resources, and as such in his/her capacity as the duly representative of:

THE MINISTER OF MINERAL RESOURCES

The said Regional Manager, being duly authorised thereto under and by virtue of a Power of Attorney granted by the Director-General or Deputy Director-General: Mineral Regulation of the Department of Mineral Resources on the 10 day of the DECEMBER in the year 2012 in terms of the powers delegated by the Minister in terms of section 103 (1) of the Mineral and Petroleum Resources Development Act, No 28 of 2002 ("the Act"),

And


MARTHIE PRINSLOO
NOTARIS / NOTARY
WCMAS GEBOU, EMALAHLENI



Neal Reynolds in his/her personal capacity or as the company's DIRECTOR or a Close Corporation's member, and as such, the duly authorised representative of Evander Gold Mines Limited, Identification /Registration number:

1	9	6	3	/	0	0	6	2	2	6	/	0	6	
---	---	---	---	---	---	---	---	---	---	---	---	---	---	--

(hereinafter together with his/her/its successors in title and assigns referred to as "the Holder"), the said representative, being duly authorised thereto under and by virtue of a Power of Attorney/resolution of directors/members of the Holder, signed or passed at Johannesburg on the 09 day of October in the year 2013, which power of attorney or certified copy of the resolution has this day been exhibited to me, the notary, and remain filed on record in my protocol with the minutes hereof.

THE MINISTER AND THE HOLDER DECLARED THAT:

- WHEREAS** The State is the custodian of the nation's mineral and petroleum resources in terms of section 3 of the Act,
- AND WHEREAS** In terms of clause 4 of the principal right, the terms of the right may not be amended/varied without the written consent of the Minister,
- AND WHEREAS** the Holder has applied for the **EXCLUSION OF THE VARIOUS PORTIONS OF VARIOUS FARMS (ANNEXURE A) FROM EVANDER GOLD MINES TO TAUNG GOLD SECUNDA (PTY)LTD**
- AND WHEREAS** The Minister has granted consent for the amendment/variation to the Holder, in terms of section 102 of the Act.

NOW THEREFORE THESE PRESENTS WITNESS:

MARTHE PRINSLOO
NOTARIS / NOTARY
WCMAS GEBOU, EMALAHLENI

RSA

NA
[Signature]
[Signature]

The Minister hereby grants the variation/amendment of the mining right executed on the 29 day of April in the year 2008, under Protocol 900/2008, registered at the Mineral and Petroleum Titles Registration Office under 107/2010, in respect of;


Certain: **VARIOUS PORTIONS OF VARIOUS FARMS (Annexure C)**
 Situated: **MPTUMALANGA** Magisterial/Administrative District of **Highveld Ridge**
 Measuring: **36898.0** hectares

(In case of various farms involved, a list must be attached and referred to as ANNEXURE _____);

Is hereby amended/ varied by the **AMENDMENT OF THE MINING RIGHT UNDER FILE REFERENCE NUMBER MP30/5/1/2/2/2/126MR FOR THE EXCLUSION OF THE VARIOUS PORTIONS OF VARIOUS FARMS (ANNEXURE C),**

NOW THE MINING RIGHT WILL CONTAIN THE FOLLOWING PROPERTIES: VARIOUS PORTIONS OF VARIOUS FARMS (ANNEXURE A) TOTAL HECTARES AFTER THE EXCLUSION WILL OF THE PROPERTIES WILL BE 31783.0738 HECTARES.

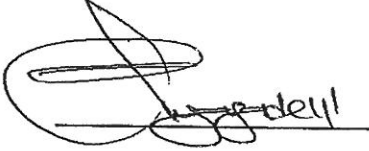
Now therefore the Minister grants the amendment/ variation of the principal right.


MARTHIE PRINSLOO
 NOTARIS / NOTARY
 WCMAS GEBOU, EMALAHLENI
 R.S.A

SM

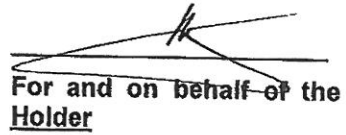
Thus done and signed at WITBANK on the 30 day of October in the year 2013 in the presence of the undersigned witnesses:

AS WITNESS:



For and on behalf of the Minister

AS WITNESS:



For and on behalf of the Holder



NOTARY PUBLIC
MARTHE PRINSLOO
NOTARIS / NOTARY
WCMAS GEBOU, EMALAHLENI
R.S.A



SM

EVANDER GOLD MINES LIMITED
EVANDER PROJECT

THE REGISTERED DESCRIPTION OF THE LAND TO WHICH THIS APPLICATION RELATES

FARMS	DESCRIPTION ON PRINCIPAL MINING RIGHT OF EVANDER	FARMS/PORCTIONS TO BE CEDED TO TAUNG	TOTAL AREA	HECTARES
			(Original)	AREA (to be ceded)
UITKYK 136 IS	Remaining Extent	A Portion of the Remaining Extent	227.6399	9.9998
UITKYK 136 IS	Remaining Extent of Ptn 2	Remaining Extent of Portion 2	22.6528	22.6528
UITKYK 136 IS	Portion 3 (Ptn of Ptn 2)	Portion 3	2.3494	2.3494
UITKYK 136 IS	Portion 4 (Ptn of Ptn 2)	Portion 4	3.6163	3.6163
DRIEFONTEIN 137 IS	Rem Ext of Mineral Area 3 on Rem Ext of Portion 3	A Portion of the Remaining Extent of Portion 3	50.9950	92.1507
DRIEFONTEIN 137 IS	Mineral Area 6 (Ptn of Mineral Area 3)	The Rem Ext of Ptn 3	71.2848	
DRIEFONTEIN 137 IS	Rem Ext of Mineral Area 1 on Portion 4	Remaining Extent of Portion 4	340.1701	458.8662
DRIEFONTEIN 137 IS	Mineral Area 9 (Ptn of Mineral Area 1)	Remaining Extent of Portion 4	118.6961	
DRIEFONTEIN 137 IS	Portion 7 (Ptn of Ptn 6)	A Portion of Portion 7	195.3321	77.0380
DRIEFONTEIN 137 IS	Portion of Portion 13 (Ptn of Ptn 6)	A Portion of the Rem Ext of Ptn 13 (Ptn of Ptn 6)	98.2574	126.0137
DRIEFONTEIN 137 IS	Portion of Portion 13		29.5869	
DRIEFONTEIN 137 IS	Portion 15 (Ptn of Ptn 13)	A Portion of Portion 15 (Ptn of Ptn 13)	228.4085	65.6347
DRIEFONTEIN 137 IS	Portion of Portion 16 (Ptn of Ptn 13)	A Portion of Portion 16	192.8878	20.0347
DRIEFONTEIN 137 IS	Rem Ext of Portion 18 (Ptn of Ptn 3)	Remaining Extent of Portion 18 (109.7813 ha) and Portion 57 (Ptn of Ptn 18) (2.2473 ha)	112.0286	112.0286
DRIEFONTEIN 137 IS	Remaining Extent of Mineral Area 4 on Portion 19 (Ptn of Ptn 3)	Now known as Portion 19 (Ptn of Ptn 3)	85.5085	118.0045
DRIEFONTEIN 137 IS	Mineral Area 7 (Ptn of Mineral Area 4)		32.4980	
DRIEFONTEIN 137 IS	Rem Ext of Portion 5	Now known as a Portion of Portion 20 (Ptn of Ptn 3) (67.8832 ha) and a Portion of the Rem Ext of Portion 27 (18.5891 ha)	64.8380	86.4723
DRIEFONTEIN 137 IS	Mineral Area 8 (Ptn of Mineral Area 5)	A Portion of Portion 20 (67.8832 ha)	70.4125	
DRIEFONTEIN 137 IS	Portion 22 (Ptn of Ptn 12)	A Portion of Portion 22	79.3809	15.9320
DRIEFONTEIN 137 IS	Portion 23 (Ptn of Ptn 12)	A Portion of Portion 23 (Ptn of Ptn 12)	79.3675	1.1494
DRIEFONTEIN 137 IS	Portion 24 (Ptn of Ptn 18)	Portion 24 (Ptn of Ptn 18)	5.9760	5.9760
DRIEFONTEIN 137 IS	Portion 11 (Ptn of Ptn 9) (Wrench Block)	A Portion of the Rem Ext of Portion 30 (33.5964 ha), the Remaining Extent of Portion 61 (2.2754 ha), Portion 75 (a Ptn of Ptn 30) (2.6226 ha), Rem Ext of Portion 77 (21.4183 ha), Portion 79 (1.6368 ha), A part of Secunda Town, Secunda X 1, Secunda Township X 11, Secunda Township X 14, Secunda Township X 25, Secunda Township X 26 (16.7148 ha)	85.6876	74.2722

1
2

DRIEFONTEIN 137 IS	Rem Ext of Portion 9 (Ptn of Ptn 5) (Wrench Block)	A Portion of the Rem Ext of Portion 30, A Portion of Portion 37 (9,8049 ha), A Part of Secunda Town (35.3025 ha), Secunda Township X 1 (11.2970ha), Secunda Township X 11 (4.6920 ha), Secunda Township X 14 (2.7278 ha), Secunda Township X 25 (12.4751 ha), A Part of Secunda Township X 28 (12.5227 ha)	85.6876	85.6876
DRIEFONTEIN 137 IS	Rem Ext of Mineral Area 2 (Ptn of Mineral Area 1) on Portion 4	Remaining Extent of Portion 66 (Ptn of Ptn 4) (367.4563 ha), Part of Secunda Township X 2 (34.7012 ha), Part of Secunda Township X 3 (10.7541 ha), Part of Secunda Township X 6 (31.8399 ha), Secunda Township X 22 (175.6842 ha), Secunda Township X 23 (90.8878 ha), Secunda Township X 33 (11.694 ha)	772.7600	722.9975
DRIEFONTEIN 137 IS	Rem Ext of Mineral Area 5 on Ptn 20 (Ptn of Ptn 3)	Now known as a portion of Portion 20 (Ptn of Ptn 3) farm Driefontein 137 IS	47.5914	
DRIEFONTEIN 137 IS	Mineral Area 10 (Ptn of Mineral Area 2)	Now known as Portion 80 (Ptn of Ptn 30) (16.2037 ha), a portion of Portion 86 (Ptn of Ptn 30) (131.4455 ha), Portion 87 (Ptn of Ptn 30) (5.7022 ha), Portion 89 (Ptn of Ptn 30) (0.9128 ha), Portion 91 (Ptn of Ptn 30) (14.1301 ha), part of Secunda Township X 16, Secunda Township X 17 (29.8353 ha)	226.6810	197.2296
HOLFOONTEIN 138 IS	Portion 2	Portion 2	78.2428	78.2428
HOLFOONTEIN 138 IS	Portion 3	Portion 3	78.2470	78.2470
KAFFERSKRAAL 289 IS	Remaining Extent of the farm: Rem Ext of Ptn 2, Ptn 3, Ptn 4 (Ptn of Ptn 2)	Now known as a Portion of the Rem Ext of the farm Sasokraal 289 IS	951.7726	6.5874


MARTINE PRINSLOO
 NOTARIS / NOTARY
 WCMAS GEBOU, EMALAHLENI
 R.S.A

N/C


SM

EVANDER GOLD MINES LIMITED
EVANDER PROJECT

THE REGISTERED DESCRIPTION OF THE LAND TO WHICH THIS APPLICATION RELATES

FARMS	DESCRIPTION ON PRINCIPAL MINING RIGHT OF EVANDER	FARMS/PORCTIONS TO BE CEDED TO YAUNG	TOTAL AREA	HECTARES
			(Original)	AREA (to be ceded)
UITKYK 136 IS	Remaining Extent	A Portion of the Remaining Extent	227.6399	9.9996
UITKYK 136 IS	Remaining Extent of Ptn 2	Remaining Extent of Portion 2	22.5528	22.5528
UITKYK 136 IS	Portion 3 (Ptn of Ptn 2)	Portion 3	2.3494	2.3494
UITKYK 136 IS	Portion 4 (Ptn of Ptn 2)	Portion 4	3.5153	3.5153
DRIEFONTEIN 137 IS	Rem Ext of Mineral Area 3 on Rem Ext of Portion 3	A Portion of the Remaining Extent of Portion 3	50.9950	92.1607
DRIEFONTEIN 137 IS	Mineral Area 6 (Ptn of Mineral Area 3)	The Rem Ext of Ptn 3	71.2848	
DRIEFONTEIN 137 IS	Rem Ext of Mineral Area 1 on Portion 4	Remaining Extent of Portion 4	340.1701	458.8662
DRIEFONTEIN 137 IS	Mineral Area 9 (Ptn of Mineral Area 1)	Remaining Extent of Portion 4	118.6981	
DRIEFONTEIN 137 IS	Portion 7 (Ptn of Ptn 6)	A Portion of Portion 7	195.3321	77.0380
DRIEFONTEIN 137 IS	Portion of Portion 13 (Ptn of Ptn 6)	A Portion of the Rem Ext of Ptn 13 (Ptn of Ptn 6)	98.2574	126.0137
DRIEFONTEIN 137 IS	Portion of Portion 13		29.5869	
DRIEFONTEIN 137 IS	Portion 15 (Ptn of Ptn 13)	A Portion of Portion 15 (Ptn of Ptn 13)	228.4085	65.6347
DRIEFONTEIN 137 IS	Portion of Portion 16 (Ptn of Ptn 13)	A Portion of Portion 16	192.8878	20.0347
DRIEFONTEIN 137 IS	Rem Ext of Portion 18 (Ptn of Ptn 3)	Remaining Extent of Portion 18 (109.7813 ha) and Portion 67 (Ptn of Ptn 18) (2.2473 ha)	112.0286	112.0286
DRIEFONTEIN 137 IS	Remaining Extent of Mineral Area 4 on Portion 19 (Ptn of Ptn 3)	Now known as Portion 19 (Ptn of Ptn 3)	85.5085	118.0045
DRIEFONTEIN 137 IS	Mineral Area 7 (Ptn of Mineral Area 4)		32.4960	
DRIEFONTEIN 137 IS	Rem Ext of Portion 5	Now known as a Portion of Portion 20 (Ptn of Ptn 3) (67.8832 ha) and a Portion of the Rem Ext of Portion 27 (18.5891 ha)	54.8380	86.4723
DRIEFONTEIN 137 IS	Mineral Area 8 (Ptn of Mineral Area 5)	A Portion of Portion 20 (67.8832 ha)	70.4125	
DRIEFONTEIN 137 IS	Portion 22 (Ptn of Ptn 12)	A Portion of Portion 22	79.3609	15.9320
DRIEFONTEIN 137 IS	Portion 23 (Ptn of Ptn 12)	A Portion of Portion 23 (Ptn of Ptn 12)	79.3675	1.1494
DRIEFONTEIN 137 IS	Portion 24 (Ptn of Ptn 18)	Portion 24 (Ptn of Ptn 18)	5.9750	5.9750
DRIEFONTEIN 137 IS	Portion 11 (Ptn of Ptn 9) (Wrench Block)	A Portion of the Rem Ext of Portion 30 (33.5964 ha), the Remaining Extent of Portion 61 (2.2754 ha), Portion 75 (a Ptn of Ptn 30) (2.6228 ha), Rem Ext of Portion 77 (21.4183 ha), Portion 79 (1.8368 ha), A part of Secunda Town, Secunda X 1, Secunda Township X 11, Secunda Township X 14, Secunda Township X 25, Secunda Township X 26 (16.7148 ha)	85.6875	74.2722


DRIEFONTEIN 137 IS	Rem Ext of Portion 9 (Ptn of Ptn 5) (Wrench Block)	A Portion of the Rem Ext of Portion 30, A Portion of Portion 37 (9.8049 ha), A Part of Secunda Town (35.3025 ha), Secunda Township X 1 (11.2970 ha), Secunda Township X 11 (4.6920 ha), Secunda Township X 14 (2.7278 ha), Secunda Township X 25 (12.4751 ha), A Part of Secunda Township X 28 (12.5227 ha)	85.6875	85.6875
DRIEFONTEIN 137 IS	Rem Ext of Mineral Area 2 (Ptn of Mineral Area 1) on Portion 4	Remaining Extent of Portion 66 (Ptn of Ptn 4) (367.4563 ha), Part of Secunda Township X 2 (34.7012 ha), Part of Secunda Township X 3 (10.7541 ha), Part of Secunda Township X 6 (31.8399 ha), Secunda Township X 22 (176.8842 ha), Secunda Township X 23 (90.8678 ha), Secunda Township X 33 (11.694 ha)	772.7600	722.9975
DRIEFONTEIN 137 IS	Rem Ext of Mineral Area 5 on Ptn 20 (Ptn of Ptn 3)	Now known as a portion of Portion 20 (Ptn of Ptn 3) farm Driefontein 137 IS	47.5914	
DRIEFONTEIN 137 IS	Mineral Area 10 (Ptn of Mineral Area 2)	Now known as Portion 80 (Ptn of Ptn 30) (15.2037 ha), a portion of Portion 86 (Ptn of Ptn 30) (131.4455 ha), Portion 87 (Ptn of Ptn 30) (5.7022 ha), Portion 89 (Ptn of Ptn 30) (0.9128 ha), Portion 91 (Ptn of Ptn 30) (14.1301 ha), part of Secunda Township X 16, Secunda Township X 17 (29.8353 ha)	226.6810	197.2296
HOLFFONTEIN 138 IS	Portion 2	Portion 2	78.2428	78.2428
HOLFFONTEIN 138 IS	Portion 3	Portion 3	78.2470	78.2470
KAFFERSKRAAL 289 IS	Remaining Extent of the farm: Rem Ext of Ptn 2, Ptn 3, Ptn 4 (Ptn of Ptn 2)	Now known as a Portion of the Rem Ext of the farm Sasolkraal 289 IS	951.7726	6.5874


MARTHIE PRINSLOO
NOTARIS / NOTARY
WCMAS GEBOU, EMALAHLENI
R.S.A

 SM

GOEDEHOOP 290 IS	Remaining Extent of Ptn 5	Now known as, the Remaining Extent of Portion 5 (62.3688 ha), Part of Secunda Township X 27, a Portion of the farm Sasol 2 & 3 Fabriek 601 IS.	599.0243	62.3688
GOEDEHOOP 290 IS	Portion 8 (Ptn of Ptn 5)	Now known as, the Remaining Extent of Portion 8 (151.5672 ha), Part of Secunda Township X 27, A Portion of the Remaining Extent of the farm Driehoek 572 IS and A Portion of the farm Sasol 2 & 3 Fabriek 601 IS	256.9596	151.5672
GOEDEHOOP 290 IS	Remaining Extent of Portion 10	Remaining Extent of Portion 10	85.8830	85.8830
GOEDEHOOP 290 IS	Portion 14 (Ptn of Ptn 4) (Wrench Block)	Now known as, the Remaining Extent of Portion 14 (55.6231 ha) and A Portion of the farm Sasol 2 & 3 Fabriek 601 IS	126.4798	55.6231
GOEDEHOOP 290 IS	Portion 11 (Ptn of Ptn 4)	Now known as, A Ptn of Ptn 26 of the farm Driehoek 275 IS, A Ptn of the Rem Ext of Ptn 43 of the farm Driehoek 275 IS (199.5549 ha), A Ptn of the Rem Ext of the farm Valleihoek 551 IS, A Portion of the farm Sasol 2 & 3 Fabriek 601 IS	404.8798	199.5549
GOEDEHOOP 290 IS	Portion 12 (Ptn of Ptn 4) (Wrench Block)	Now known as, A Ptn of the Rem Ext of the farm Driehoek 275 IS (12.8293 ha), A Ptn of Ptn 26 of the farm Driehoek 275 IS (40.3302 ha), A Ptn of the Rem Ext of the farm Valleihoek 551 IS (9.5129 ha), Secunda Township X 5, Part of Secunda Township X 7 (46.2032 ha), Secunda Township X 13 (77.7371 ha), Secunda Township X 19 (10.0527 ha), Secunda Township X 32. A Ptn of the Rem Ext of the farm Driehoek 572 IS, A Portion of the farm Sasol 2 & 3 Fabriek 601 IS	342.6314	156.6654
GOEDEHOOP 290 IS	Remaining Extent of Ptn 4 (Pinus Montanis)	Now known as, the Rem Ext of Ptn 4 of the farm Driehoek 572 IS	137.0940	132.0062
GOEDEHOOP 290 IS	Portion 13 (Ptn of Ptn 9)	Now known as A Ptn of the Rem Ext of the farm Driehoek 572 IS	95.5034	
GOEDEHOOP 290 IS	Portion 15 (Ptn of Ptn 9)	Now known as, Portion 34 of the farm Driehoek 275 IS (34.1506 ha), A Ptn of the Rem Ext of the farm Driehoek 572 IS (275.9603 ha), Secunda Township X 5, (21.2695 ha), Part of Secunda Township X 7, Secunda Township X 19, Secunda Township X 20 (16.4852 ha), Secunda Township X 32 (3.6889 ha)	118.2014	101.1972
GOEDEHOOP 290 IS	Portion 17 (Ptn of Ptn 4) (Wrench Block)	Now known as, the Rem Ext of Portion 17 and A Ptn of the Rem Ext of the farm Driehoek 572 IS	77.1161	
TWISTDRAAI 285 IS	Remaining Extent	Now known as A Portion of the farm Sasol 2 & 3 Fabriek 601 IS	76.8894	
TWISTDRAAI 285 IS	Portion 1	Now known as A Portion of the farm Sasol 2 & 3 Fabriek 601 IS	22.3055	
TWISTDRAAI 285 IS	Portion 2	Now known as A Portion of the farm Sasol 2 & 3 Fabriek 601 IS	22.3055	
TWISTDRAAI 285 IS	Portion 9	Now known as A portion of the farm Sasol 2 & 3 Fabriek 601 IS and the Rem Ext of Portion 9 of the farm Twistdraai 285 IS (4.4394 ha)	169.2479	4.4394
TWISTDRAAI 285 IS	Remaining Extent of Portion 11	Now known as A portion of the farm Sasol 2 & 3 Fabriek 601 IS	163.7518	
DRIEFONTEIN 137 IS	Portion of Portion 13 (a Ptn of Ptn 6)	A Portion of the remaining Extent of Portion 13 (Mineral Area 14)	98.2870	
DRIEFONTEIN 137 IS	Portion of Portion 16 (Ptn of Ptn 13)	A Portion of Portion 16	35.5208	
TWISTDRAAI 285 IS	Portion 14 (Ptn of Ptn 12)	Now known as A Portion of the farm Sasol 2 & 3 Fabriek 601 IS	34.2613	
TWISTDRAAI 285 IS	Portion 15 (Ptn of Ptn 12)	Now known as A Portion of the farm Sasol 2 & 3 Fabriek 601 IS	64.0258	
TWISTDRAAI 285 IS	Rem Ext of Portion 12 (Ptn of Ptn 11)	Now known as A Portion of the farm Sasol 2 & 3 Fabriek 601 IS	98.287	
DRIEFONTEIN 137 IS	Portion 9 (Ptn of Ptn 5)	Now Known as Portion of Portion 37 (9.8049 ha), Part of Secunda Township X 16 (81.0905 ha), part of Secunda Township X 27 (6.6581 ha), Secunda Township X 28, (1.9173 ha)	171.3749	99.3708

TOTAL 5114.4719


MARTHIE PRINSLOO
 NOTARIS / NOTARY
 WCMAS GEBOU, EMALAHLENI
 R.S.A.

EVANDER GOLD MINES LIMITED
(HARMONY GOLD MINING COMPANY LIMITED)

Annexure C

Oct 19, 2011 10:45

PROPERTIES FORMING THE EVANDER GOLD MINES LIMITED MINING RIGHT

Melanie de Nysschen
 Macquarie
 Oct 19, 2011 10:45

MINING RIGHT 126

Melanie de Nysschen
 Macquarie
 Oct 19, 2011 10:45

RM No's	PORTION	DESCRIPTION	FARM	SIZE (ha)
K3301/97RM	Pln 21	Portion of Portion 1	Brakfontein 310 I.R.	106.0843
K3301/97RM	Re 1	Remaining extent of Pln 1	Brakfontein 310 I.R.	106.0872
K3301/97RM	Pln 18	Pln of Pln 1	Brakfontein 310 I.R.	169.0223
K3301/97RM	Re 3	Remaining extent of Pln 3	Brakfontein 310 I.R.	346.3123
K3304/97RM	Re 8	Portion of Portion 4	Brakfontein 310 I.R.	105.0184
K3300/97RM	Pln 20	Portion of Portion 1	Brakfontein 310 I.R.	112.8668
K2731/97RM	Re	Remaining extent	Brakspruit 359 I.R.	99.9668
K2731/97RM	Re MA 2	On Re of Pln 4	Brakspruit 359 I.R.	379.8124
K2731/97RM	Pln 7	Portion 7	Brakspruit 359 I.R.	0.8565
K2731/97RM	MA 7	Pln of MA 1 on the Re and Pln of Re Pln 4	Brakspruit 359 I.R.	448.9557
K2731/97RM	Pln 16	Pln of Pln 4	Brakspruit 359 I.R.	273.3360
K2731/97RM	Re 3	Remaining Extent of Pln 3.	Brakspruit 359 I.R.	154.9310
K3314/97RM	Re 1	Remaining extent of Pln 1	Brakspruit 359 I.R.	117.1436
K3314/97RM	MA 3	Of Pln 8	Brakspruit 359 I.R.	51.2665
K3314/97RM	MA 4	Of Pln 8	Brakspruit 359 I.R.	34.1815
K3314/97RM	Pln 8	Pln of Pln 1	Brakspruit 359 I.R.	171.6115
K3314/97RM	Pln 12	Pln of Pln 2	Brakspruit 359 I.R.	93.4012
K3314/97RM	Re 2	Remaining Extent of Pln 2	Brakspruit 359 I.R.	193.2180
K3314/97RM	Pln 13	Portion of portion 2	Brakspruit 359 I.R.	186.0025
K3314/97RM	Pln 15	Portion 15	Brakspruit 359 I.R.	93.4012
K2139/97RM	Pln 22	Pln of Pln 12	Driefontein 137 I.S.	79.3809
K2139/97RM	Pln 23	Pln of Pln 12	Driefontein 137 I.S.	79.3675
K2140/97RM	Re 12	Pln of Pln 12	Driefontein 137 I.S.	41.5600
K2140/97RM	Re 2	Remaining extent of Pln 2	Driefontein 137 I.S.	275.9832
K2146/97RM	Re 6	Remaining extent of Pln 6	Driefontein 137 I.S.	680.7644
K2147/97RM	Pln 15	Pln of Pln 13	Driefontein 137 I.S.	228.4086
K2148/97RM	Re 13	Pln of Pln 6 (MA13)	Driefontein 137 I.S.	29.5869
K2149/97RM	Pln 14	Pln of Pln 13	Driefontein 137 I.S.	228.4086
K2150/97RM	Re 16	Pln of Pln 13 (MA12)	Driefontein 137 I.S.	192.8078
K2151/97RM	MA 8	Pln of MA 5	Driefontein 137 I.S.	70.4125
K2151/97RM	MA 6	Pln of MA 3	Driefontein 137 I.S.	71.2848
K2151/97RM	MA 7	Pln of MA 4	Driefontein 137 I.S.	32.4980
K2151/97RM	MA 9	Pln of MA 1	Driefontein 137 I.S.	118.6981
K2151/97RM	MA 10	Pln of MA 2	Driefontein 137 I.S.	226.6810
K2151/97RM	Re 5	Remaining extent of Pln 5	Driefontein 137 I.S.	54.8380
K2151/97RM	Pln 8	Pln of Pln 5	Driefontein 137 I.S.	171.3749
K2151/97RM	Pln 10	Pln of Pln 5	Driefontein 137 I.S.	171.3749
K1062/97RM	Pln 24	Pln of Pln 18	Driefontein 137 I.S.	5.9760
K1062/97RM	Pln 7	Pln of Pln 6	Driefontein 137 I.S.	195.3321
K1062/97RM	Re MA 1	On Pln 4	Driefontein 137 I.S.	340.1701
K1062/97RM	Re MA 2	(Pln of MA 1) on Pln 4	Driefontein 137 I.S.	772.7500
K1062/97RM	Re MA 3	Re of Pln 3	Driefontein 137 I.S.	50.9950
K1062/97RM	Re MA 4	On Pln 19 (Pln of Pln 3)	Driefontein 137 I.S.	85.6086
K1062/97RM	Re MA 5	On Pln 20 (Pln of Pln 3)	Driefontein 137 I.S.	47.6914
K1062/97RM	Re 18	Pln of Pln 3	Driefontein 137 I.S.	112.0288
K1062/97RM	Re 25	Pln of Pln 5	Driefontein 137 I.S.	85.6875
K1062/97RM	Pln 11	Pln of Pln 9	Driefontein 137 I.S.	85.6875
K388/2000RM	MA 14	Portion of MA 13	Driefontein 137 I.S.	98.2574
K388/2000RM	MA 15	Portion of MA 12	Driefontein 137 I.S.	25.6308

confidential
 Melanie de Nysschen
 Macquarie
 Oct 19, 2011 10:45

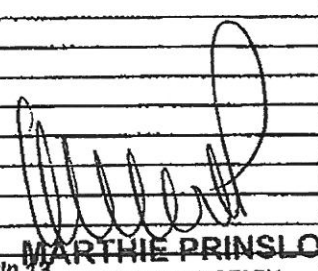
MARTHE PRINSLOO
 NOTARIS / NOTARY
 WCMAS GEBOU, EMALAHLENI
 R.S.A.

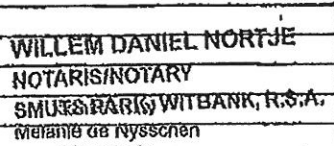
WILLEM DANIEL NORTJE
 NOTARIS / NOTARY
 SMUTS PATRICKSBANK R.S.A.
 Melanie de Nysschen

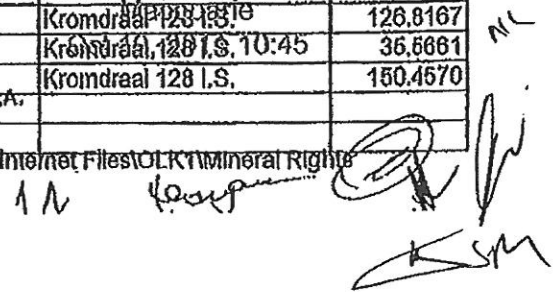
SM

RM No's	PORTION	DESCRIPTION	FARM	SIZE (ha)
Melanie de Nysschen Macquarie Oct 19, 2011 10:45				
K1063/97RM	Pln 11	Pln of Pln 4	Goedehoop 290 I.S.	404.8798
K1063/97RM	Pln 12	Pln of Pln 4	Goedehoop 290 I.S.	342.6314
K1063/97RM	Pln 13	Portion of Portion 9	Goedehoop 290 I.S.	95.5034
K1063/97RM	Pln 14	Pln of Pln 4	Goedehoop 290 I.S.	128.4798
K1063/97RM	Pln 15	Portion of Portion 9	Goedehoop 290 I.S.	118.2014
K1063/97RM	Pln 17	Pln of Pln 4	Goedehoop 290 I.S.	77.1161
K1063/97RM	Pln 8	Pln of Pln 5	Goedehoop 290 I.S.	266.9598
K1063/97RM	Re 5	Remaining Extent of Pln 5	Goedehoop 290 I.S.	699.0243
K1063/97RM	Re 10	Remaining Extent of Portion 10	Goedehoop 290 I.S.	85.8830
K1063/97RM	Re 4	Remaining extent of Pln 4	Goedehoop 290 I.S.	137.0940
K2953/97RM	The Farm	The Farm	Goedverwachting 287 I.S.	79.2806
K3298/97RM	Pln 2	Portion 2	Groollaagte 311 I.R.	87.0579
K3298/97RM	Pln 7	Pln 7	Groollaagte 311 I.R.	211.7019
K3298/97RM	Pln 8	Portion 8	Groollaagte 311 I.R.	211.7019
K3310/97RM	Pln 5	Pln 5	Groollaagte 311 I.R.	211.7090
K3310/97RM	Pln 6	Pln 6	Groollaagte 311 I.R.	211.7019
K3310/97RM	Re 3	Remaining extent of Portion 3	Groollaagte 311 I.R.	132.7480
K3310/97RM	Pln 9	Portion of Portion 3	Groollaagte 311 I.R.	147.3927
K2954/97RM	Re	Remaining extent	Grootspruit 279 I.S.	184.2244
K2954/97RM	Re 3	Remaining extent of Pln 3	Grootspruit 279 I.S.	91.6947
K2954/97RM	Pln 5	Portion 5	Grootspruit 279 I.S.	92.6287
K3308/97RM	Pln 3	Portion 3	Grouwwater 353 I.R.	85.6532
K3308/97RM	Re 4	Remaining portion of Pln 4	Grouwwater 353 I.R.	347.7557
K1064/97RM	Pln 2	Portion 2	Hoffontein 138 I.S.	78.2428
K1064/97RM	Pln 3	Portion 3	Hoffontein 138 I.S.	78.2470
K2145/97RM	Pln 1	Pln 1	Kafferskraal 289 I.S.	281.1485
K2144/97RM	Re	Remaining Extent	Kafferskraal 289 I.S.	951.7728
K3309/97RM	Pln 3	Portion 3	Klipfontein 357 I.R.	986.2381
K429/97RM	MA3	Pln of MA 2	Kromdraal 128 I.S.	42.2603
K2729/97RM	MA6	On Remaining extent	Kromdraal 128 I.S.	33.6033
K2729/97RM	Re MA7	On Re of Pln 8	Kromdraal 128 I.S.	193.7910
K2729/97RM	MA1	MA 1	Kromdraal 128 I.S.	420.7407
K4814/97RM	Pln 15	Pln of Pln 13	Kromdraal 128 I.S.	299.8023
K4814/97RM	Re 13	Remaining extent of Pln 13	Kromdraal 128 I.S.	266.9598
K4814/97RM	Pln 14	Pln of Pln 13	Kromdraal 128 I.S.	109.9659
K4814/97RM	Re of MA2	Over Pln 17 (Pln of Pln 13)	Kromdraal 128 I.S.	300.3526
K4814/97RM	Pln 10	Pln of Pln 1	Kromdraal 128 I.S.	85.8832
K4814/97RM	Re 1	Remaining Extent of Pln 1	Kromdraal 128 I.S.	64.4369
K4814/97RM	Pln 11	Pln of Pln 1	Kromdraal 128 I.S.	266.9598
K4814/97RM	Pln 4	Pln 4	Kromdraal 128 I.S.	126.8167
K4814/97RM	Pln 3	Pln 3	Kromdraal 128 I.S.	36.6661
K4814/97RM	Pln 2	Pln of Pln 1	Kromdraal 128 I.S.	150.4570

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 Macquarie
 Oct 19, 2011 10:45


MARTHIE PRINSLOO
 NOTARIS / NOTARY
 WCMAS GEBOU, EMALAHLENI
 R.S.A.


WILLEM DANIEL NORTJE
 NOTARIS / NOTARY
 SMU'S BANK WITBANK, R.S.A.
 Melanie de Nysschen

12


RM No's	PORTION	DESCRIPTION	FARM	SIZE (ha)
		Melanie de Nysschen Macquarie Oct 19, 2011 10:45		
K3467/97RM	Pln 7	Pln of Pln 2	Langverwacht 282 I.S.	70.0843
K3467/97RM	Re MA 1	On Re of Pln 2	Langverwacht 282 I.S.	286.6743
K3467/97RM	Re MA 2	Over Re of Pln 6 (Pln of Pln 2)	Langverwacht 282 I.S.	326.6468
K3467/97RM	Re MA 3	Over Pln 10	Langverwacht 282 I.S.	1.9016
K3467/97RM	Macquarie MA 7	MA 7	Langverwacht 282 I.S.	309.7123
		Oct 19, 2011 10:45		
K162/64RM	MA2	Pln of MA 1	Leeuwspruit 194 I.S.	105.3330
K456/67RM	MA3	Pln of MA 1	Leeuwspruit 194 I.S.	425.6668
K3306/97RM	Re 2	Remaining extent of Pln 2	Rietfontein 313 I.R.	561.2806
K3306/97RM	Re 4	Portion of the Town Lands of Eendracht (a Portion of Portion 2)	Rietfontein 313 I.R.	177.3192
K3306/97RM	Pln 6	Portion of the Town Lands of Eendracht (a Portion of Portion 2)	Rietfontein 313 I.R.	266.8461
K4826/97RM	Pln 7	Portion of Portion 2	Rietfontein 313 I.R.	142.3242
K3038/97RM	Pln 8	Portion 8	Rietkuil 531 I.R.	0.4283
K3038/97RM	Re MA1	On Portion 7 (Pln of Pln 2)	Rietkuil 531 I.R.	212.1447
K3038/97RM	Re MA2	Portion of MA 1	Rietkuil 531 I.R.	216.1213
K3311/97RM	Pln 3	Portion of Portion 1	Rolspruit 127 I.S.	132.4369
K3311/97RM	Pln 6	Portion of Portion 1	Rolspruit 127 I.S.	147.5276
K3311/97RM	Pln 10	Portion of Portion 1	Rolspruit 127 I.S.	162.2372
K3311/97RM	Pln 7	Portion of Portion 1	Rolspruit 127 I.S.	143.9003
K3311/97RM	Pln 8	Portion of Portion 1	Rolspruit 127 I.S.	138.3914
K3311/97RM	Re 1	Remaining Extent of Portion 1	Rolspruit 127 I.S.	155.1808
K3311/97RM	Re	Remaining Extent of Portion 1	Rolspruit 127 I.S.	723.7866
K3311/97RM	Pln 2	Pln 2	Rolspruit 127 I.S.	734.0707
K3311/97RM	Pln 9	Portion of Portion 1	Rolspruit 127 I.S.	161.9816
K3311/97RM	Pln 6	Portion of Portion 1	Rolspruit 127 I.S.	141.7989
K3311/97RM	Pln 11	Portion of Portion 1	Rolspruit 127 I.S.	139.1336
K3314/97RM	Pln 4	Pln of Pln 1	Rolspruit 127 I.S.	145.2692
K116/64RM	MA 2	Pln of MA 1	Ruigtekullen 129 I.S.	644.6439
K454/67RM	MA 3	Pln of MA 1	Ruigtekullen 129 I.S.	212.3663
K466/67RM	MA 4	On Re of Farm	Ruigtekullen 129 I.S.	328.6567
K3303/97RM	Re 3	Portion of Portion 1	Salpeterkranz 351 I.R.	77.2603
K3303/97RM	Pln 8	Portion of Portion 1	Salpeterkranz 351 I.R.	184.2116
K3303/97RM	Pln 6	Portion of Portion 3	Salpeterkranz 351 I.R.	8.4026
K3303/97RM	Pln 6	Portion of Portion 1	Salpeterkranz 351 I.R.	42.7381
K3303/97RM	Pln 11	Portion of Portion 3	Salpeterkranz 351 I.R.	86.6535
K2730/97RM	MA 3	Pln of MA2 over Pln 6 (Pln of Pln1)	Springbokdraai 277 I.S.	77.6933
K2730/97RM	MA 4	(Pln of MA1) on Pln 1	Springbokdraai 277 I.S.	36.2003
K2730/97RM	MA 6	(Pln of MA 5) on Re of Pln 1	Springbokdraai 277 I.S.	68.6480
K2730/97RM	Re MA 2	Over Pln 6 (Pln of Pln 1)	Springbokdraai 277 I.S.	97.6016
K3468/97RM	Re MA 5	Pln of MA 1	Springbokdraai 277 I.S.	83.2434
K3468/97RM	Re MA 1	On Re of Pln 1	Springbokdraai 277 I.S.	97.1784
K1066/97RM	Pln 1	Pln 1	Twistdraai 285 I.S.	22.3056
K1066/97RM	Pln 14	Pln of Pln 12	Twistdraai 285 I.S.	34.2613
K1066/97RM	Pln 15	Pln of Pln 12	Twistdraai 285 I.S.	64.0258
K1066/97RM	Pln 2	Portion 2	Twistdraai 285 I.S.	22.3056

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MARYHE PRINSLOO
NOTARIS / NOTARY
WCMAS GEBOU, EMALAHLEN
R.S.A.

ML
K

RM No's	PORTION	DESCRIPTION	FARM	SIZE (ha)
		Melanie de Nysschen Macquarie		
K1065/97RM	Pln 9	Pln 9	Twistdraal 285 I.S.	169,2479
K1065/97RM	Re	Remaining Extent Oct 19, 2011 10:45	Twistdraal 285 I.S.	76,8694
K1065/97RM	Pln 11	Remaining Extent of Pln 11	Twistdraal 285 I.S.	163,7518
K1065/97RM	Re 12	Pln of Pln 11	Twistdraal 285 I.S.	98,2870
		Macquarie		
		Oct 19, 2011 10:45		
K1066/97RM	Pln 3	Pln of Pln 2	Uitkyk 136 I.S.	2,3494
K1066/97RM	Re	Remaining Extent	Uitkyk 136 I.S.	227,6399
K1066/97RM	Pln 4	Pln of Pln 2	Uitkyk 136 I.S.	3,6153
K1066/97RM	Re 2	Remaining Extent of Pln 2	Uitkyk 136 I.S.	22,5628
K4813/97RM	Pln 31	Portion of Portion 14	Watervalshoek 350 I.R.	27,6440
K4813/97RM	Re	Remaining extent	Watervalshoek 350 I.R.	146,2328
K4813/97RM	Re 6	Remaining extent of Portion 6	Watervalshoek 350 I.R.	212,5898
K4813/97RM	Pln 10	Portion of Portion 8	Watervalshoek 350 I.R.	25,6960
K4813/97RM	Pln 7	Portion of Portion 6	Watervalshoek 350 I.R.	34,2613
K4813/97RM	Pln 29	Portion of Portion 14	Watervalshoek 350 I.R.	55,2888
K4813/97RM	Pln 46	Pln of Pln 5	Watervalshoek 350 I.R.	33,4328
K4813/97RM	Re 5	Remaining extent of Portion 5	Watervalshoek 350 I.R.	167,1641
K4813/97RM	Pln 18	Portion 18	Watervalshoek 350 I.R.	246,8497
K3299/97RM	Pln 21	Portion of Portion 11	Watervalshoek 350 I.R.	30,2327
K3299/97RM	Pln 34	Portion of Portion 15	Watervalshoek 350 I.R.	37,9771
K3299/97RM	Pln 40	Portion of Portion 37	Watervalshoek 350 I.R.	22,6740
K3299/97RM	Pln 16	Portion 16	Watervalshoek 350 I.R.	246,8511
K3299/97RM	Pln 17	Portion 17	Watervalshoek 350 I.R.	246,8497
K3299/97RM	Re 37	Remaining extent of Portion 37	Watervalshoek 350 I.R.	50,5916
K3299/97RM	Pln 39	Portion of Portion 37	Watervalshoek 350 I.R.	22,6740
K3299/97RM	Pln 33	Portion of Portion 15	Watervalshoek 350 I.R.	76,9542
K3302/97RM	Pln 20	Portion of Portion 11	Watervalshoek 350 I.R.	47,9658
K3302/97RM	Pln 43	Pln of Pln 37	Watervalshoek 350 I.R.	22,6740
K3302/97RM	Pln 42	Pln of Pln 37	Watervalshoek 350 I.R.	22,6740
K3302/97RM	Pln 38	Pln of Pln 37	Watervalshoek 350 I.R.	22,6740
K3305/97RM	Pln 30	Portion of Portion 14	Watervalshoek 350 I.R.	55,2859
K3305/97RM	Re 14	Remaining Extent of Portion 14	Watervalshoek 350 I.R.	27,6452
K3307/97RM	Pln 13	Pln of Pln 11	Watervalshoek 350 I.R.	19,7002
K3307/97RM	Re 15	Remaining Extent of Pln 15	Watervalshoek 350 I.R.	132,9198
K3307/97RM	Re 11	Remaining Extent of Pln 11	Watervalshoek 350 I.R.	140,3070
K3312/97RM	Pln 2	Pln of Pln 1	Wildebeestspruit 356 I.R.	262,5313
K3312/97RM	Re 1	Remaining Extent of Pln 1	Wildebeestspruit 356 I.R.	277,1437
K3312/97RM	Pln 3	Pln of Pln 1	Wildebeestspruit 356 I.R.	209,9389
K3150/97RM	Re 56	Remaining extent of Pln 56	Winkelhaak 135 I.S.	24,8172
K3150/97RM	Pln 13	Portion of Pln 3 (MA32)	Winkelhaak 135 I.S.	140,2525
K3150/97RM	Re 3	Remaining extent of Pln 3 (MA3)	Winkelhaak 135 I.S.	209,2973
K2141/97RM	MA30	On Remaining extent of Pln 3	Winkelhaak 135 I.S.	243,0716
K2142/97RM	Re of Pln 2	Re of Pln 2	Winkelhaak 135 I.S.	398,0010
K1067/97RM	MA24	On Pln 49 (Pln of Pln 32)	Winkelhaak 135 I.S.	173,8551
K1067/97RM	Pln 24	Pln of Pln 19	Winkelhaak 135 I.S.	125,0537
K1067/97RM	Pln 20	Pln of Pln 4	Winkelhaak 135 I.S.	128,4798
K1067/97RM	Pln 16	Pln of Pln 5	Winkelhaak 135 I.S.	44,3055
K1067/97RM	Pln 15	Pln of Pln 12	Winkelhaak 135 I.S.	7,0864
K1067/97RM	Re 1	Remaining Extent of Pln 1	Winkelhaak 135 I.S.	83,6632
K1067/97RM	Re 4	Remaining Extent of Pln 4	Winkelhaak 135 I.S.	65,4569
K1067/97RM	Pln 52	(now known as Township of Kinross Ext 2)	Winkelhaak 135 I.S.	14,7774
K1067/97RM	Pln 43	Pln of Pln 4	Winkelhaak 265 I.S.	171,3064
K1067/97RM	Re 18	Pln of Pln 4 WILLEM DANIEL NORTJE	Winkelhaak 135 I.S.	42,8268
K458/67RM	MA22	Pln of MA9 NOTARIS/NOTARY	Winkelhaak 135 I.S.	16,9876
K455/67RM	MA16	Pln of MA7 SMUTS PARK	Winkelhaak 135 I.S.	157,1806

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 Melanie de Nysschen
 Macquarie
 Oct 19, 2011 10:45

WARTHE PRINSLOO
 NOTARIS / NOTARY
 WGMAS GEBOU, EMALAHLENI
 R.S.A.

Handwritten signatures and initials, including a large signature that appears to be 'Warthe Prinsloo' and other initials like 'SM'.

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 Melanie de Nysschen
 Macquarie
 Oct 19, 2011 10:45

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MEASUREMENT	PORTION	DESCRIPTION	FARM	SIZE (ha)
Macquarie			Macquarie	
K459/07RM	Pln 10	Pln of MA6	Winkelhaak 135 I.S.	42.4764
K452/07RM	MA16	Pln of MA8	Winkelhaak 135 I.S.	113.2210
K432/07RM	Pln 37	Pln C of Lot 3 (MA21)	Winkelhaak 135 I.S.	117.3522
K431/07RM	MA4	Pln of Pln C of Lot 3	Winkelhaak 135 I.S.	98.4680
K428/07RM	Pln 31	Portion A of Lot 3 (MA17)	Winkelhaak 135 I.S.	537.9021
K425/07RM	Pln 36	Portion C of Lot 3 (MA23)	Winkelhaak 135 I.S.	52.1565
K424/07RM	Pln 38	Portion C of Lot 3 (MA18)	Winkelhaak 135 I.S.	117.3522
K426/07RM	Pln 56	Portion of Lot 3 (MA14)	Winkelhaak 135 I.S.	123.6655
K161/04RM	MA11	Pln of MA7	Winkelhaak 135 I.S.	59.1308
K168/04RM	MA12	Pln of MA8 on Re of Pln B of Lot 3	Winkelhaak 135 I.S.	60.6340
K160/04RM	MA10	Pln of MA6	Winkelhaak 135 I.S.	65.5680
K159/04RM	MA13	Pln of MA9 on Pln. 50 a Pln of Pln 8 of Lot 3	Winkelhaak 135 I.S.	156.8641
K576/07RM	MA20	On Re of Pln 33	Winkelhaak 135 I.S.	138.2363
K2143/07RM	Pln 55	Pln of Pln 6 (MA31)	Winkelhaak 135 I.S.	64.4633
K2162/07RM	Pln of Pln 13	Pln of Pln 3 (MA5)	Winkelhaak 135 I.S.	154.7500
K3313/07RM	Re 5	Remaining Extent of Pln 5	Winkelhaak 135 I.S.	400.3958
K3313/07RM	Re 12	Pln of Pln 1	Winkelhaak 135 I.S.	148.7986
K3313/07RM	Pln 14	Pln of Pln 1	Winkelhaak 135 I.S.	51.3919
K3313/07RM	Re 8	Pln of Pln 5	Winkelhaak 135 I.S.	76.0195
K3313/07RM	Re 19	Pln of Pln 4	Winkelhaak 135 I.S.	0.8565
K3313/07RM	Pln 48	Pln 48	Winkelhaak 135 I.S.	84.7967
K3313/07RM	Pln 11	Pln of Pln 1	Winkelhaak 135 I.S.	135.0551
K4826/07RM	Pln 9	Pln of Pln 4	Winkelhaak 135 I.S.	194.4749
K1069/07RM	Pln 1	Pln 1	Witklfontein 131 I.S.	342.8128
K1069/07RM	MA3	MA 3	Witklfontein 131 I.S.	101.1338
K1069/07RM	The Farm	After MA 3 was deleted	Witklfontein 131 I.S.	140.1599
K5620/07RM	Pln 2	Portion 2	Witklfontein 131 I.S.	52.9722
K5620/07RM	MA2	On Portion 2	Witklfontein 131 I.S.	68.5232
K5620/07RM	MA1	On Pln 4	Witklfontein 131 I.S.	157.4569
K5620/07RM	Re 4	Remaining extent of Pln 4	Witklfontein 131 I.S.	67.3899
K5620/07RM	Re 3	Remaining extent of Pln 3	Witklfontein 131 I.S.	259.9026
K2728/07RM	MA 6	Pln of MA 1 on Pln 3	Zandfontein 130 I.S.	299.1361
K2728/07RM	MA 5	Pln of MA 1	Zandfontein 130 I.S.	137.3984
K2728/07RM	MA 9	Pln of MA 2	Zandfontein 130 I.S.	444.8036
K2728/07RM	MA 4	Pln of MA 1 over Pln 3	Zandfontein 130 I.S.	134.0014
K2728/07RM	MA 13	Pln of MA 8	Zandfontein 130 I.S.	72.4868
K2728/07RM	MA 12	Pln of MA 7	Zandfontein 130 I.S.	79.0874
K2728/07RM	Re MA 10	Pln of MA 2 on Pln 1	Zandfontein 130 I.S.	136.5424
K2728/07RM	MA 11	Pln of MA 10	Zandfontein 130 I.S.	120.2194
K2952/07RM	Re MA 8	Pln of MA 3	Zandfontein 130 I.S.	204.5860
K2952/07RM	Re MA 7	Pln of MA 3	Zandfontein 130 I.S.	204.1417
MARTINE PRINSLOO				
NOTARIS / NOTARY				
K1060/07RM	Pln 25	Pln of Pln 12	Zondagsfontein 124 I.S.	22.3208
WGMAS GEBOU, EMALAHLENI				
R.S.A.				
Total portions				231
Total Area				38897.5457

Melanie de Nysschen
 Macquarie
 Oct 19, 2011 10:45

Melanie de Nysschen
 Macquarie
 Oct 19, 2011 10:45

WILLEM DANIEL NORTJE
 NOTARIS/NOTARY
 SMUTS PARK, WITBANK, R.S.A.


EVANDER GOLD MINES LIMITED
EVANDER PROJECT

THE REGISTERED DESCRIPTION OF THE LAND TO WHICH THIS APPLICATION RELATES

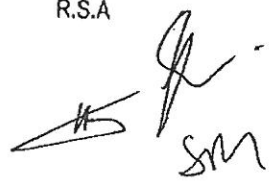
FARMS	DESCRIPTION ON PRINCIPAL MINING RIGHT OF EVANDER	FARMS/PORCTIONS TO BE CEDED TO TAUNG	TOTAL AREA	HECTARES
			(Original)	AREA (to be ceded)
UITKYK 136 IS	Remaining Extent	A Portion of the Remaining Extent	227.6399	9.9996
UITKYK 136 IS	Remaining Extent of Ptn 2	Remaining Extent of Portion 2	22.6528	22.6528
UITKYK 136 IS	Portion 3 (Ptn of Ptn 2)	Portion 3	2.3494	2.3494
UITKYK 136 IS	Portion 4 (Ptn of Ptn 2)	Portion 4	3.5153	3.5153
DRIEFONTEIN 137 IS	Rem Ext of Mineral Area 3 on Rem Ext of Portion 3	A Portion of the Remaining Extent of Portion 3	60.9950	92.1507
DRIEFONTEIN 137 IS	Mineral Area 6 (Ptn of Mineral Area 3)	The Rem Ext of Ptn 3	71.2848	
DRIEFONTEIN 137 IS	Rem Ext of Mineral Area 1 on Portion 4	Remaining Extent of Portion 4	340.1701	458.8662
DRIEFONTEIN 137 IS	Mineral Area 9 (Ptn of Mineral Area 1)	Remaining Extent of Portion 4	118.6961	
DRIEFONTEIN 137 IS	Portion 7 (Ptn of Ptn 6)	A Portion of Portion 7	195.3321	77.0380
DRIEFONTEIN 137 IS	Portion of Portion 13 (Ptn of Ptn 6)	A Portion of the Rem Ext of Ptn 13 (Ptn of Ptn 6)	98.2574	128.0137
DRIEFONTEIN 137 IS	Portion of Portion 13		29.5869	
DRIEFONTEIN 137 IS	Portion 15 (Ptn of Ptn 13)	A Portion of Portion 15 (Ptn of Ptn 13)	228.4085	65.6347
DRIEFONTEIN 137 IS	Portion of Portion 16 (Ptn of Ptn 13)	A Portion of Portion 16	192.8878	20.0347
DRIEFONTEIN 137 IS	Rem Ext of Portion 18 (Ptn of Ptn 3)	Remaining Extent of Portion 18 (109.7813 ha) and Portion 57 (Ptn of Ptn 18) (2.2473 ha)	112.0286	112.0286
DRIEFONTEIN 137 IS	Remaining Extent of Mineral Area 4 on Portion 19 (Ptn of Ptn 3)	Now known as Portion 19 (Ptn of Ptn 3)	85.6085	118.0045
DRIEFONTEIN 137 IS	Mineral Area 7 (Ptn of Mineral Area 4)		32.4960	
DRIEFONTEIN 137 IS	Rem Ext of Portion 5	Now known as a Portion of Portion 20 (Ptn of Ptn 3) (67.8832 ha) and a Portion of the Rem Ext of Portion 27 (18.5891 ha)	54.8380	86.4723
DRIEFONTEIN 137 IS	Mineral Area 8 (Ptn of Mineral Area 5)	A Portion of Portion 20 (67.8832 ha)	70.4125	
DRIEFONTEIN 137 IS	Portion 22 (Ptn of Ptn 12)	A Portion of Portion 22	79.3909	16.9320
DRIEFONTEIN 137 IS	Portion 23 (Ptn of Ptn 12)	A Portion of Portion 23 (Ptn of Ptn 12)	79.3675	1.1494
DRIEFONTEIN 137 IS	Portion 24 (Ptn of Ptn 18)	Portion 24 (Ptn of Ptn 18)	5.9750	5.9750
DRIEFONTEIN 137 IS	Portion 11 (Ptn of Ptn 9) (Wrench Block)	A Portion of the Rem Ext of Portion 30 (33.6964 ha), the Remaining Extent of Portion 61 (2.2754 ha), Portion 75 (a Ptn of Ptn 30) (2.6226 ha), Rem Ext of Portion 77 (21.4183 ha), Portion 79 (1.8368 ha), A part of Secunda Town, Secunda X 1, Secunda Township X 11, Secunda Township X 14, Secunda Township X 25, Secunda Township X 26 (16.7148 ha)	85.6875	74.2722

DRIEFONTEIN 137 IS	Rem Ext of Portion 9 (Ptn of Ptn 5) (Wrench Block)	A Portion of the Rem Ext of Portion 30, A Portion of Portion 37 (9,8049 ha), A Part of Secunda Town (35.3026 ha), Secunda Township X 1 (11.2970ha), Secunda Township X 11 (4,6920 ha), Secunda Township X 14 (2,7278 ha), Secunda Township X 25 (12,4751 ha), A Part of Secunda Township X 28 (12,6227 ha)	85.6875	85.6875
DRIEFONTEIN 137 IS	Rem Ext of Mineral Area 2 (Ptn of Mineral Area 1) on Portion 4	Remaining Extent of Portion 68 (Ptn of Ptn 4)(367.4563 ha), Part of Secunda Township X 2 (34.7012 ha), Part of Secunda Township X 3 (10.7541 ha), Part of Secunda Township X 6 (31.8399 ha), Secunda Township X 22 (175.6842 ha), Secunda Township X 23 (90.8678 ha), Secunda Township X 33 (11.694 ha)	772.7600	722.9975
DRIEFONTEIN 137 IS	Rem Ext of Mineral Area 5 on Ptn 20 (Ptn of Ptn 3)	Now know as a portion of Portion 20 (Ptn of Ptn 3) farm Driefontein 137 IS	47.5914	
DRIEFONTEIN 137 IS	Mineral Area 10 (Ptn of Mineral Area 2)	Now known as Portion 80 (Ptn of Ptn 30) (15.2037 ha), a portion of Portion 86 (Ptn of Ptn 30) (131.4455 ha), Portion 87 (Ptn of Ptn 30) (5.7022 ha), Portion 89 (Ptn of Ptn 30) (0.9128 ha), Portion 91 (Ptn of Ptn 30) (14.1301 ha), part of Secunda Township X 16, Secunda Township X 17 (29.8353 ha)	226.6810	197.2296
HOLFFONTEIN 138 IS	Portion 2	Portion 2	78.2428	78.2428
HOLFFONTEIN 138 IS	Portion 3	Portion 3	78.2470	78.2470
KAFFERSKRAAL 289 IS	Remaining Extent of the farm: Rem Ext of Ptn 2, Ptn 3, Ptn 4 (Ptn of Ptn 2)	Now known as a Portion of the Rem Ext of the farm Sasolkraal 289 IS	951.7726	6.5874

1
2

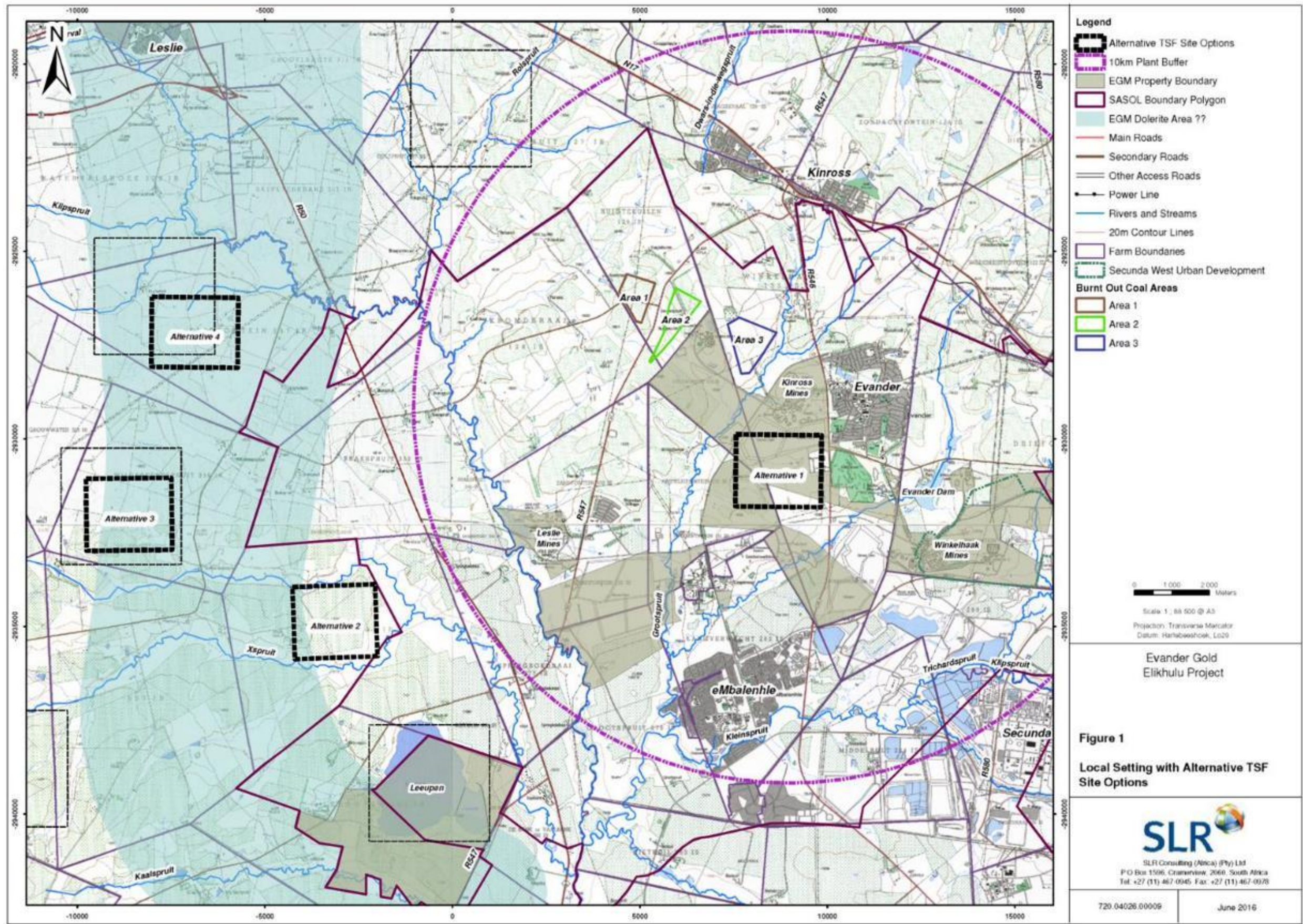
M.L.

MARTHIE PRINSLOO
NOTARIS / NOTARY
WCMAS GEBOU, EMALAHLENI
R.S.A

2460.981


SM

APPENDIX 3: PLANS

DRAFT



Plan 3: Site Alternatives Considered






OPTION 1A



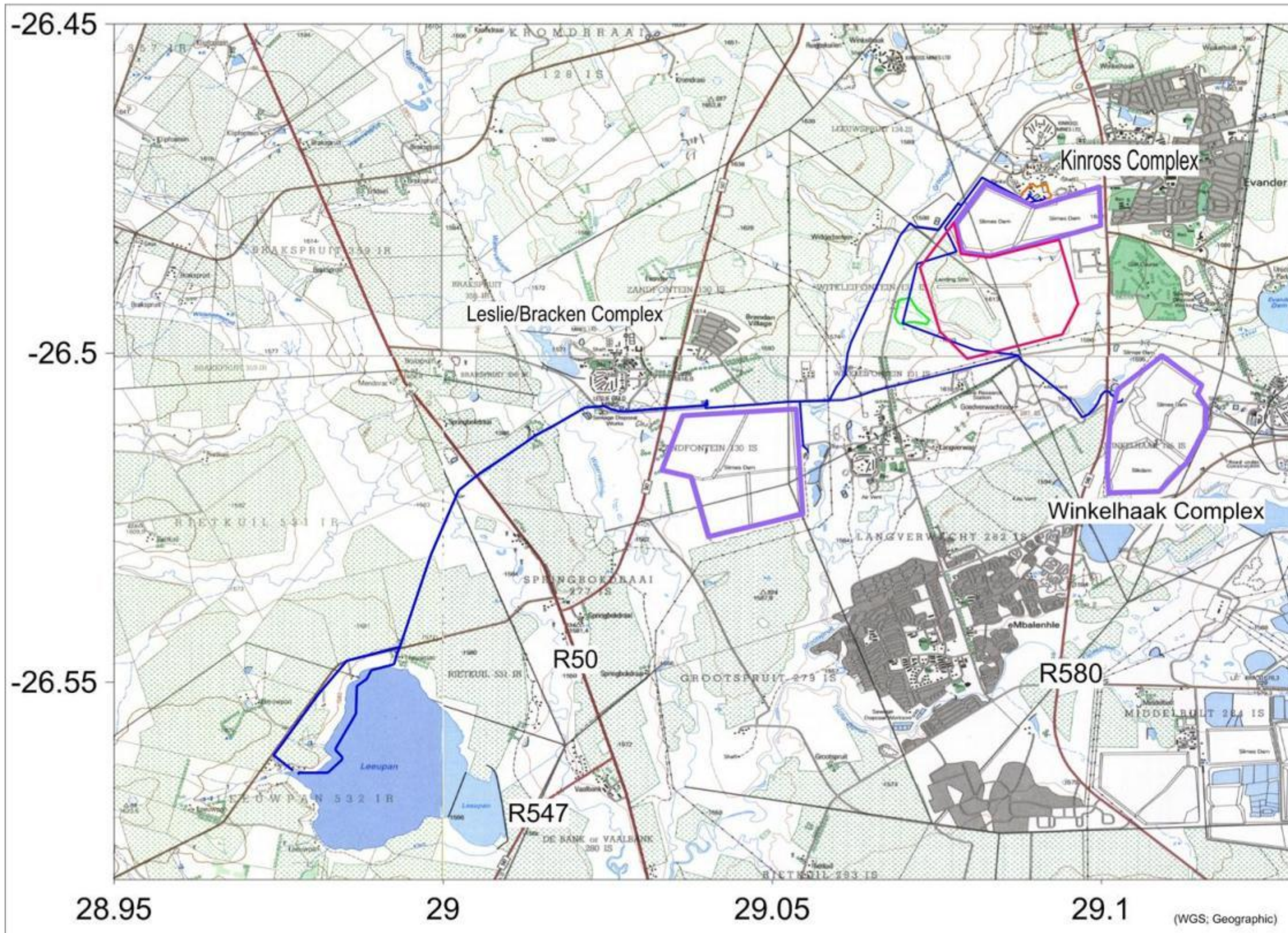
OPTION 1B



OPTION 1C (Preferred Alternative)

-  Return water dams
-  Proposed footprint of new plant
-  Kinross TSE and proposed expansion

Plan 4: New TSE Layout Alternatives



LEGEND

-  Existing TSF's
-  TSF Expansion Footprint
-  Provincial Roads
-  Pipeline
-  Return Water Dams
-  Proposed Plant



TITLE: Proposed Activities

DRAWN BY: Michelle Venter (BSc Hons)

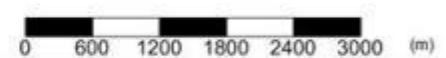
REVIEWED BY: Shelton Tsanga (Bsc)

DATE: September 2016

CLIENT: 

PROJECT: Evander Gold Mine

LOCATION: Evander, Mpumalanga

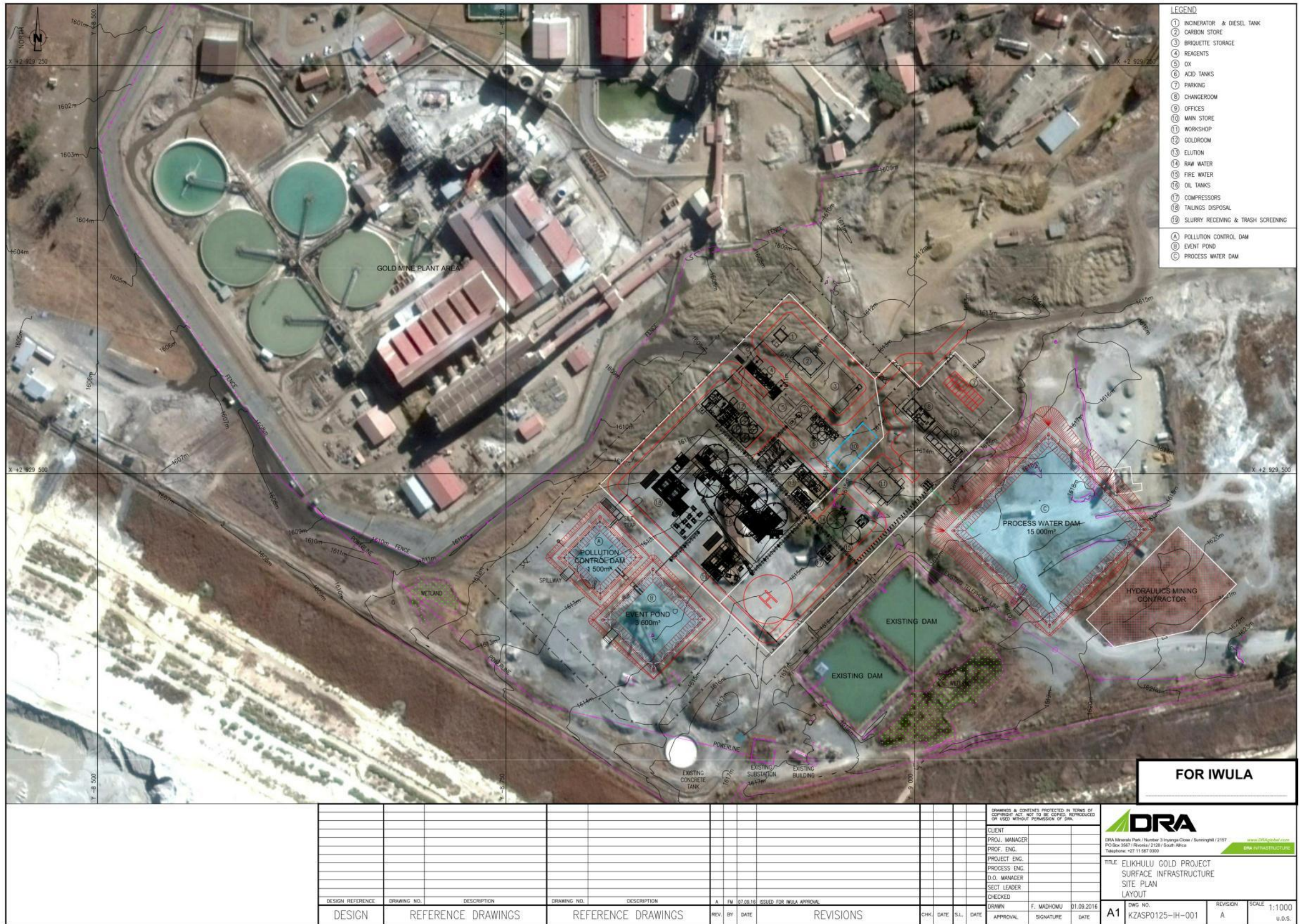
SCALE:  (m)

MAP: Topographic 1:50 000: 2628BD, 2628DB, 2629ACC & 2629CA



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Plan 5: Final Layout indicating pipeines, preferred TSF layout and location of new plant



Plan 6: Proposed new plant layout

APPENDIX 4: PUBLIC PARTICIPATION

DRAFT

4.1: I&AP REGISTER

DRAFT

INTERESTED & AFFECTED PARTIES REGISTER:	
DEPARTMENT / ASSOCIATION / FARM	CONTACT PERSON
Department of Mineral Resources Mpumalanga	Samuel Mathavhela
Department of Mineral Resources Mpumalanga	Bethuel Matodzi
Dept. of Water Affairs & Sanitation	Mr M Mulaudzi
Dept. of Water Affairs & Sanitation	Joyce Lekoane
Dept. of Environmental Affairs	J Sikhosana
Dept. of Environmental Affairs	MEC Office
Dept. of Land Affairs- Land Restitution Support	Sam Nkosi
Dept. of Land Affairs	Bheki Nyathikazi
Dept. of Land Affairs Provincial State Land Manager	Maximiliaan De Kock
Dept. of Rural Development & Land Reform	Mr Lucky Legodi
Dept. of Rural Development & Land Reform	Mrs Zanele Sihlangu
Dept. of Agriculture, Forestry & Fisheries	Mr Bheki Nyathikazi
Dept. of Agriculture, Forestry & Fisheries	Jan Venter
Dept. of Agriculture, Forestry & Fisheries	Francois Koegelenberg
Dept. of Agriculture, Forestry & Fisheries	Mr Steve Galane
Dept. of Human Settlements	MEC Office
Dept. of Trade & Industry	MEC Office
Dept. of Roads & Transport	Ms Caroline Khoza
Dept. of Roads & Transport	Environmental Dept.
Dept. of Tourism	Ms Yogeeta Dheda
Dept. of Defence	Ms Joy Nonzukiso Peter
Dept. of Public Enterprises	Mr Richard Mantu

Dept. of Public Works	Mr Pat Mashiane
Dept. of Public Works	Mr Mziwonke Dlabantu
Dept. of Economic Development	Mr J Sikhosana
Dept. of Energy	MEC Office
Dept. of Energy	Ms Rhoda Mackier
Dept. of Health	Mr Dumisani S Malamule
Dept. of Health	MEC Office
Dept. of Labour	Ms Zetu Gayeni
Dept. of Labour	Ms Aggy Moiloa
Dept. of Local Government & Housing	
Dept. of Traditional Affairs	Abram Sithole
Dept. of Traditional Affairs	Josephine Appolus
Dept. of Traditional Affairs	Shoky Mogaladi
Dept. of Traditional Affairs	Dr Nokuzola Mndende
Dept. of Traditional Affairs	Dr Wilson Makgalancheche
Dept. of Traditional Affairs	Bagudi Tolo
Dept. of Traditional Affairs	Lefentse Nkosi
Dept. of Traditional Affairs	Botshelo Rakate
Mpumalanga Wetland Society	
Department of Social Development	Nomsa Mtsweni
Department of Health	Gillion Mashego
Department of Finance, Economic Development and Tourism	Sikhumbuzo Kholwane
Department of Economic Development & Tourism	Thulane Mdakane
Department of Community Safety, Security and Liaison	Vusi Shongwe

Department of Agriculture, Rural Development, Land and Environmental Affairs	Andries Gamede
Department of Co-Operative Governance and Traditional Affairs	Refilwe Mtsweni
Department of Human Settlements	Violet Siwela
Department of Public Works, Roads and Transport	Dumisile Hlengethwa
SAHRA	<i>Online Portal</i>
Gert Sibande- District Municipality	Mr C.A Habile- Municipal Manager
Gert Sibande- District Municipality	Environmental Services
Govan Mbeki Local Municipality	Michel Melato
Govan Mbeki Local Municipality (ward 17)- Evander	Councilor Makola Mamokgekge
Govan Mbeki Local Municipality (ward 18)-Evander	Councilor Estelle Pedro Swart
Govan Mbeki Local Municipality (mmc community services)	Cllr. Nomgqibelo Ethel Nkosi
Govan Mbeki Local Municipality (mmc planning and development)	Cllr. Yvonne Thandiwe Ngxonono
Govan Mbeki Local Municipality ward 7- Embalenhle	Vilakazi Elphus Albert
Govan Mbeki Local Municipality ward 4- Embalenhle	Thandi Ruth Mnisi
Govan Mbeki Local Municipality	Ntokozi Ntombela
Farmers with Riparian Rights on the Waterval river	Attie Jankowitz
Inhabitation of informal residential area (Sakisizwe Farm)	Steve Shabangu
Zandfontein 130 IS Portion 2	Brendan Village cc
Winkelhaak 135 IS Portion 81	Provincial Government of Mpumalanga
Sasolskraal I 289 IS Portions 1 & 2	Sasol Chemical Industries PTY LTD

Sasol Synfuels (Pty) Ltd	Jaco Linde
Sasol Mining	Gail Nussey -Vos
Leeuwpan 532 IR 12 & 13	HB Louwrens Trust
Springbokdraai 277 IS 2	Govan Mbeki Municipality
Springbokdraai 277 IS 1	R.T. Du Preez
Winkelhaak 135 IS RE3	M.Wienand
Winkelhaak 135 IS 56	Evander Township Ltd
Zandfontein 130 IS 5	Brendan Village Cc
Zandfontein 130 IS 2	Brendan Village Cc
Witkleifontein 131 IS 1	Communal Prop Association Sakhisizwe
Evander High School	The Principal
Gert Sibande FET College	The Principal
Laerskool Hoefeld	The Principal
TP Stratten Primary School	The Principal
Evander/Secunda Public Library Library	

4.2: ADVERTS

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Job Vacancies

NOTICES

ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED REFURBISHMENT OF THE EXISTING EVANDER NO. 6 SHAFT AND ESTABLISHMENT OF ADDITIONAL GOLD MINING AND PROCESSING INFRASTRUCTURE

Existing DMR mining right reference number: MP30/5/1/2/2/10020MR (other references to follow as relevant)

Taung Gold (Secunda) (Pty) Limited (Taung Gold) holds the mining right and an approved environmental management programme (EMP) associated with the Evander No. 6 Shaft (previously owned by Evander Gold Mines). Taung is proposing to refurbish the shaft and associated infrastructure and establish additional gold mining and processing related infrastructure. The proposed project is located approximately 1km west of Secunda in the Govan Mbeki Local Municipality of the Gert Sibande District Municipality in the Mpumalanga Province. The proposed project will be located on the following farms and portions: Remainder of Portions 86, 4, 22 and 23 of the farm Driefontein 1371S and Remainder of Portion 1 of the farm Holfontein 1381S.

Notice is hereby given of the applications made for authorisation of the proposed development in terms of the environmental legislation listed below. These applications will be supported by a scoping and environmental impact assessment process in terms of the Environmental Impact Assessment (GNR 982). The proposed project is likely to incorporate a number of "identified" activities in terms of various environmental regulations. These may include, but are not limited to the following activities:

Legislation	Competent Authority	Listed Activities	Activity description (high level description)
National Environmental Management Act, No. 107 of 1998	Mpumalanga Department of Mineral Resources (DMR)	Activities in Listing Notice 1 GN R983: Activities 9, 10, 12, 13, 19, 24, 25, 28, 30, 34, 45, 46, 48, 49; Listing Notice 2 GN R 984: Activities 4, 6, 15, 16, 21, 27, 28; and Notice 3 GN R985: Activities 1, 3, 4, 12, 14, 18, 23 of December 2014.	Site clearance, mining, drilling, expansion of buildings and infrastructure near watercourses, primary ore processing, processing of gold through chemical treatment, establishment/ widening of roads, changes to waste rock stockpile footprint, establishment of a tailings facility, establishment of dams and pipelines, waste water treatment, power supply, storage of dangerous goods, billboards and support infrastructure.
National Environmental Management: Waste Act, No. 59 of 2008	Mpumalanga DMR	Waste management activities in Category B of GNR 921, Activities 7, 10, 11, of November 2013	Establishment of a tailings facility, change to waste rock stockpile footprint.
Section 102 of Mineral and Petroleum Resources Development Act No. 28 of 2002	Mpumalanga DMR	N/A	Amendment of the existing environmental management programme
National Environmental Air Quality Act, No. 39 of 2004	Gert Sibande District Municipality	Listed atmospheric emission activities in GN R 893, sub-category 4.17 of November 2013	Gold and associated metal production and refining
National Water Act No. 36 of 1998	Mpumalanga Department of Water and Sanitation	Water uses in terms of Section 21(b), 21(c), 21(g) and 21(i) and 21 (j)	For water storage, impeding a watercourse, disposing of waste and water containing waste, altering characteristics of a watercourse, dewatering.

SLR Consulting (Africa) (Pty) Ltd has been appointed as independent environmental assessment practitioners responsible for undertaking the necessary environmental processes and conducting the public participation process for the project.

To obtain additional information about the proposed project and/or the environmental assessment process, submit comments, queries or objections please contact:

Mrs Chiara Kotze or Mr Ntsako Baloyi
Postal Address: PO Box 1596, Cramerville 2060
Tel: (011) 467 0945 and/or Fax: (011) 467 0978
ckotze@slrconsulting.com or nbaloyi@slrconsulting.com

To ensure that you are identified as an interested and/or affected party (IAP), please submit your name, contact information and interest in the matter to the contact person(s) given above. As a registered IAP you will be involved throughout the project process and provided the opportunity to review reports. If possible, please provide your initial comments and/or questions by 19 October 2016.

The following Public Meetings have been planned for the project (the same information will be presented at both meetings):

- Evander Club, Bram Fisher Drive Evander; 12 October 2016 from 09:00 - 11:00
- Lilian Ngoyi Centre, Walter Sisulu Rd, Secunda; 12 October 2016 from 13:00 - 15:00

VACANCY

Mathematics educator
Intersen Phase
ref: HR/16/07/181



Closing date for applications
7 October 2016



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www.curro.co.za

EVANDER GOLD MINES BPK
MYNREGVERW.: MP 30/5/1/2/3/2/1/126

AANSOEKOM OMGEWINGSMAGTIGING
EVANDER, MPUMALANGA PROVINSIE

AANSOEKER: Evander Gold Mines Bpk
LIGGING: Evander, Mpumalanga

Evander Gold Mine (Edms) Bpk ("EGM") gee hiermee kennis kragtens die Wet op Nasionale Omgewingsbestuur, Wet 107 van 1998 ("WNOB") van sy voorneme om 'n aansoek om omgewingsmagtiging voor te lê kragtens WNOB en die Wet op Nasionale Omgewingsbestuur: Afsal, Wet 59 van 2008 ("WNOB:A") vir die voorgename veranderinge aan sy werksaamhede.

Die aansoek hou verband met die installasie van 'n tweede aanleg vir die herontginning van die bestaande Kinross, Bracken/Leslie en Winkelhaak Uitskot-bergingsgeriewe (UBGe) wat teen die einde van die myn se lewensduur in een groot UBGe gekonsolideer sal word. Die nuwe UBGe sal direk langs die bestaande Kinross UBGe op gerig word en uiteindelik die huidige UBGe voetspoor omvat. By komende infrastruktuur /geriewe verwant aan die projek sluit in: die installasie van pompe en pypleidings vir die netwerk van water en slyk; die berging van bykomende chemikalieë vir gebruik in die aanleg; konstruksie van 'n terugleidam; en die rehabilitasie van die ou Bracken/Leslie en Winkelhaak UBGe.

EGM het Cabanga Environmental aangestel om die nodige prosesse te onderneem soos vereis deur wetgewing wat betref die onderskeie omgewings- en openbare deelname prosesse.

Die volgende gelyste aktiwiteite kan ontstaan kragtens die WNOB (Regulasies (2014) en dus sal 'n Bestek- en Omgewingsimpak-assessering-proses vir die projek gevolg word. Kragtens die Nasionale Water wet sal 'n aansoek ook aan die Departement van Watersake & Sanitasie gerig word vir 'n geïntegreerde water gebruiklisensie aansoek waar van toepassing.

U word hiermee genooi na die Openbare Vergadering oor die Bestekfase.

Datum: 19 Oktober 2016
Tyd: 11:00 - 13:00
Plek: Evander Rec Club, Evander

Let asb daar op dat hierdie vergadering in Engels sal plaasvind

Let asb daar op dat die Bestekverslag vir 'n tydperk van 30 dae (vanaf 4 Oktober 2016) beskikbaar sal wees vir openbare oorsig. Die Bestekverslag sal op www.cabangaconcepts.co.za, asook by die EGM Sentrale Kantoor en die Evander Openbare Biblioteek beskikbaar wees.

STAATSKENNISGEWING:	AKTIWITEIT NO.:
GNR 983, Lysberg No. 1	9, 10, 12, 13, 19, 30, 34
GNR 984, Lysberg No. 2	4 & 15
GNR 985, Lysberg No. 3	2
GNR 921 van die NOB: AW	Kategorie A: 13 & 14 Kategorie B: 3, 7, 10 & 11

Om as B&GP te registreer en vir meer inligting oor die projek, kontak asb:
Michelle Venter
Cabanga Environmental
Tel: 011 794 7534 Faks: 011 794 6946
E-pos: michelle@cabangaenvironmental.co.za
Aanlyn: www.cabangaenvironmental.co.za
Postnet Suite 470, P/Sak x3, Northriding, 2162

EVANDER GOLD MINESLIMITED

MINING RIGHT REF.: MP 30/5/1/2/3/2/1/126

APPLICATION FOR ENVIRONMENTAL AUTHORISATION
EVANDER, MPUMALANGA PROVINCE

APPLICANT: Evander Gold Mine (Pty) Ltd
LOCATION: Evander, Mpumalanga

Evander Gold Mines Limited ("EGM") hereby gives notice in terms of the National Environmental Management Act, Act 107 of 1998 ("NEMA") of its intention to submit an application for environmental authorisation in terms of NEMA and the National Environmental Management: Waste Act, Act 59 of 2008 ("NEM:WA") for proposed changes to its operations.

The application relates to the installation of a second plant for the re-mining of the existing Kinross, Bracken/Leslie and Winkelhaak Tailings Storage Facilities (TSF's) ultimately consolidating them into one large TSF at the end of the life of mine. The new TSF will be constructed immediately adjacent to the existing Kinross TSF eventually encompassing the current TSF's footprint. Additional infrastructure / activities associated with the project include the installation of pumps and pipelines for the reticulation of water and slimes; the storage of additional chemicals for use within the plant; construction of return water dams; and the rehabilitation of the old Bracken/Leslie and WinkelhaakTSF's.

EGM has appointed Cabanga Environmental to undertake the necessary processes required in terms of legislation with regards to the various environmental and public participation processes.

The following listed activities may be triggered in terms of the NEMA EIA Regulations (2014) and as such a Scoping and Environmental Impact Assessment process will be followed for the project. In terms of the National Water Act an application will also be made to the Department of Water Affairs & Sanitation for an integrated water use licence application where applicable.

You are hereby invited to attend the Scoping Phase Public Meeting.

Date: 19 October 2016
Time: 11:00-13:00
Venue: Evander Rec Club, Evander

Please note that this meeting will be held in English

Please note that the Scoping Report will be made available for public review for a period of 30 days (from the 4th October 2016). The Scoping Report will be available on www.cabangaconcepts.co.za as well as at the EGM Central Offices and Evander Public Library.

GOVERNMENT NOTICE:	ACTIVITY NO.:
GNR 983, Listing Notice No. 1	9, 10, 12, 13, 19, 30, 34
GNR 984, Listing Notice No. 2	4 & 15
GNR 985, Listing Notice No. 3	2
GNR 921 of the NEM:WA	Category A: 13 & 14 Category B: 3, 7, 10 & 11

To register as an I&AP and for more information on the project please contact us:

Michelle Venter
Cabanga Environmental
Tel: 011 794 7534 Fax: 011 794 6946
E-mail: michelle@cabangaenvironmental.co.za
Online: www.cabangaenvironmental.co.za
Postnet Suite 470, P/Bag x3, Northriding, 2162

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In die boedel van wyle MANDO ELIZABETH MBONANI, Identiteitsnommer 540301 0229 087, wie oorlede is op 18 JANUARIE 2014 (Meester van die Hooggeregshof Pretoria, Gauteng boedelnommer 25344/2014). Krediteure en Debiteure word hiermee versoek om hulle eise in te dien en hulle skulde te betaal binne 'n tydperk van 30 (DERTIG) dae gereken vanaf datum van verskyning van hierdie advertensie.

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 Jordaan & Coetzer
 Prokureurs
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 SECUNDA, 2302
 Tel:
 (017) 6342102/4/5
 Faks:
 (017) 634 6743



Teachers celebrate Heritage Day

KINROSS - Sasolia Primary School teachers celebrated Heritage Day on Friday, 23 September. They are Ms Janine Eiman, Ms Faith Sibiya, Ms Sibongile Madire, Ms Mathota Mhlanga, Ms Gwen Nunn, Ms Melissa Singh, Ms Dolly Shipalane, Ms Claudine Moodley, Ms Ulyn Raj, Ms Nozipho Hala and Ms Nozuko Mesatywa.



Private Primary is fourth in Mpumalanga

BETHAL - Manelisi Maseko, Idris Adigun, Christoph Mbindo, Mbongeni Mlangwini, Menzi Sibanyoni and Nqubeko came third in Mpumalanga in chess. They represented Bethal Private Primary.

NOTICES / KENNISGEWINGS

PUBLIEKE KENNISGEWING BELANGHEBBENDE ENGEAFFEKTEERDE PARTYE: BASIESE BERAMINGS VERSLAG (BBV) OMGEWINGS MAGTIGING EN PROSPEKTEERREG AANSOEK: NOBW REGISTRASIE EN BBV FASE HMI ELECTRICAL CC: BREAKTHROUGH LEENGROEF KENNISGEWING NIE VIR WERK AANSOEKE

HMI Electrical cc (Reg. No.: 2009/133310/23) het aansoek gedoen vir 'n Mynbou permit in terme van afdeling 27 van die Minerale en Petroleum Hulpbron Ontwikkelings Wet (Wet 28 van 2002) (MPHOW), soos aangepas, en terselfdertyd ook vir Omgewings Magtiging in terme van afdeling 24 (5) en 44 van die Nasionale Omgewings Bestuurs Wet, 1998 (Wet 107 van 1998) (NOBW) gelees tesame met Regulasies 19 en 20 van die Omgewings Impak Beraming Regulasies, 2014 (Staatskennisgewing R 982) (OIB Regulasies). Bogenoemde aansoeke behels die myn van gruis en betongruis op gedeelte 13 van die plaas Rietfontein 420 IS.

Die voorgestelde aktiwiteit sal plaasvind op gedeelte 13 van die plaas **Rietfontein 420 IS**, geleë in die Bethal Magistraat Distrik, **Govan Mbeki Plaaslike Munisipaliteit, Mpumalanga**. Die Mynbou permit aansoek is ingedien in terme van artikel 27 van die MPROW en uitgereik met verwysingsnommer **MP 30/5/1/2/2/11148 MR** deur die Departement van Minerale Hulpbronne (DMH).

Geovicon Environmental (Pty) Ltd is aangestel as die onafhanklike omgewings konsultant wat die BBV Omgewings Magtiging aansoek, saamstel en die omgewings impak beraming behartig vir die projek.

Die BBV sal beskikbaar wees in die Bethal Publieke Biblioteek vanaf 30 September tot 31 Oktober 2016 vir publieke ondersoek.

As deel van die Publieke Deelname Proses (PDP), soos weergegee in Hoofstuk 6 van die Omgewings Impak Beraming Regulasies, 2014 (Staatskoerant kennisgewing Nr. R982), word enige persoon wat belangstel of wat geaffekteer mag word uitgenooi om te registreer as 'n Belanghebbende of Geaffekteerde Party asook om kommentaar te lewer op die KONSEP BBV voor of op 31 Oktober 2016. Tydens registrasie moet die party se belang in die projek verklaar word.

Konsultant: GEOVICON Environmental (Pty) Ltd
 Posbus 4050
 Middelburg 1050
 Tel.: 013 243 0542
 Faks.: 086 632 4936
 Sel.: 082 359 5604
 E-pos: geovicon@iafrica.com
 Kontakpersoon: Riana Bate

PUBLIC NOTICE INTERESTED AND AFFECTED PARTIES: MINING PERMIT, BASIC ASSESSMENT REPORT (BAR), ENVIRONMENTAL AUTHORISATION: NEMA REGISTRATION AND BAR PHASE HMI ELECTRICAL CC: BREAKTHROUGH BORROW PIT NOTICE NOT FOR JOB APPLICATIONS

HMI Electrical cc (Reg. No.: 2009/133310/23) applied for a Mining Permit in terms of section 27 of the Mineral and Petroleum Resources Development Act (Act 28 of 2002) (MPRDA) as amended, and simultaneously applying for Environmental Authorisation in terms sections 24 (5) and 44 of the National Environmental Management Act, 1998 (Act 107 of 1998) (NEMA) read together with Regulations 19 & 20 of the Environmental Impact Assessment Regulations, 2014 (Government Notice R 982) (EIA Regulations). The above-mentioned applications involves the mining of gravel and aggregate stone on portion 13 of the farm Rietfontein 420 IS.

The proposed activities will occur on portion 13 of the farm **Rietfontein 420 IS**, situated within the Bethal Magisterial District, **Govan Mbeki Local Municipality, Mpumalanga**. The Mining Permit application has been submitted in terms of section 27 of the MPRDA and was issued with reference number **MP 30/5/1/2/2/11148 MR** by the Department of Mineral Resources (DMR).

Geovicon Environmental (Pty) Ltd has been appointed as the independent environmental consultant to compile the BAR Environmental Authorisation application and to conduct an environmental impact assessment for the project.

The BAR will be available at the Bethal Public library from 30 September 2016 until 31 October 2016 for public perusal.

As part of the Public Participation Process (PPP), contemplated in Chapter 6 of the Environmental Impact Assessment Regulations, 2014 (Government Notice R 982), any person who is interested in, or affected by the above-mentioned project is hereby invited to register as an Interested and Affected Party and comment on the draft BAR on or before 31 October 2016. With registration, the party's interest in the project must be declared.

Consultant: GEOVICON Environmental (Pty) Ltd
 P.O Box 4050
 Middelburg 1050
 Tel.: 013 243 0542
 Fax.: 086 632 4936
 Cell.: 082 359 5604
 E-mail: geovicon@iafrica.com
 Contact person: Riana Bate

EVANDER GOLD MINESBPK MYNREGVERW.: MP 30/5/1/2/3/2/1/126 AANSOEKOM OMGEWINGSMAGTIGING EVANDER, MPUMALANGA PROVINSIE

AANSOEKER: Evander Gold Mines Bpk
 LIGGING: Evander, Mpumalanga

Evander Gold Mine (Edms) Bpk ("EGM") gee hiermee kennis kragtens die Wet op Nasionale Omgewingsbestuur, Wet 107 van 1998 ("WNOB") van sy voorneme om 'n aansoek om omgewingsmagtiging voor te lê kragtens WNOB en die Wet op Nasionale Omgewingsbestuur: Afdel. Wet 59 van 2008 ("WNOB:A") vir die voorgename veranderinge aan sy werksaamhede.

Die aansoek hou verband met die installasie van 'n tweede aanleg vir die herontginning van die bestaande Kinross, Bracken/Leslie en Winkelhaak Uitskot-bergingsgeriewe (UBGe) wat teen die einde van die myn se lewensduur in een groot UBGe gekonsolideer sal word. Die nuwe UBGe sal direk langs die bestaande Kinross UBGe op gerig word en uiteindelik die huidige UBGe voetspoor omvat. By komende infrastruktuur /geriewe verwant aan die projek sluit in: die installasie van pompe en pylpleidings vir die netwerk van water en slyk; die berging van bykomende chemikalieë vir gebruik in die aanleg; konstruksie van 'n terugleidam; en die rehabilitasie van die ou Bracken/Leslie en Winkelhaak UBGe.

EGM het Cabanga Environmental aangestel om die nodige prosesse te onderneem soos vereis deur wetgewing wat betref die onderskeie omgewings- en openbare deelname prosesse.

Die volgende gelyste aktiwiteite kan ontstaan kragtens die WNOB (2014) en dus sal 'n Bestek- en Omgewingsimpak-assessering-proses vir die projek gevolg word. Kragtens die Nasionale Water wet sal 'n aansoek ook aan die Departement van Watersake & Sanitasie gerig word vir 'n geïntegreerde water gebruiklisensie aansoek waar van toepassing.

U word hiermee genooi na die Openbare Vergadering oor die Bestekfase.

Datum: 19 Oktober 2016
 Tyd: 11:00 - 13:00
 Plek: Evander Rec Club, Evander

Let asb daar op dat hierdie vergadering in Engels sal plaasvind

STAATSKENNISGEWING:	AKTIWITEIT NO.:
GNR 983, Lysberig No. 1	9, 10, 12, 13, 19, 30, 34
GNR 984, Lysberig No. 2	4 & 15
GNR 985, Lysberig No. 3	2
GNR 921 van die NOB: AW	Kategorie A: 13 & 14 Kategorie B: 3, 7, 10 & 11

Om as B&GP te registreer en vir meer inligting oor die projek, kontak asb: Michelle Venter
 Cabanga Environmental
 Tel: 011 794 7534 Faks: 011 794 6946
 E-pos: michelle@cabangaenvironmental.co.za
 Aanlyn: www.cabangaenvironmental.co.za
 Postnet Suite 470, P/Sak x3, Northriding, 2162

Let asb daar op dat die Bestekverslag vir 'n tydperk van 30 dae (vanaf 4 Oktober 2016) beskikbaar sal wees vir openbare oorsig. Die Bestekverslag sal op www.cabangaconcepts.co.za, asook by die EGM Sentrale Kantoor en die Evander Openbare Biblioteek beskikbaar wees.

EVANDER GOLD MINESLIMITED MINING RIGHT REF.: MP 30/5/1/2/3/2/1/126 APPLICATION FOR ENVIRONMENTAL AUTHORISATION EVANDER, MPUMALANGA PROVINCE

APPLICANT: Evander Gold Mine (Pty) Ltd
 LOCATION: Evander, Mpumalanga

Evander Gold Mines Limited ("EGM") hereby gives notice in terms of the National Environmental Management Act, Act 107 of 1998 ("NEMA") of its intention to submit an application for environmental authorisation in terms of NEMA and the National Environmental Management: Waste Act, Act 59 of 2008 ("NEM:WA") for proposed changes to its operations.

The application relates to the installation of a second plant for the re-mining of the existing Kinross, Bracken/Leslie and Winkelhaak Tailings Storage Facilities (TSF's) ultimately consolidating them into one large TSF at the end of the life of mine. The new TSF will be constructed immediately adjacent to the existing Kinross TSF eventually encompassing the current TSF's footprint. Additional infrastructure / activities associated with the project include the installation of pumps and pipelines for the reticulation of water and slimes; the storage of additional chemicals for use within the plant; construction of return water dams; and the rehabilitation of the old Bracken/Leslie and Winkelhaak TSF's.

EGM has appointed Cabanga Environmental to undertake the necessary processes required in terms of legislation with regards to the various environmental and public participation processes.

The following listed activities may be triggered in terms of the NEMA EIA Regulations (2014) and as such a Scoping and Environmental Impact Assessment process will be followed for the project. In terms of the National Water Act an application will also be made to the Department of Water Affairs & Sanitation for an integrated water use licence application where applicable.

You are hereby invited to attend the Scoping Phase Public Meeting.

Date: 19 October 2016
 Time: 11:00-13:00
 Venue: Evander Rec Club, Evander

Please note that this meeting will be held in English

GOVERNMENT NOTICE:	ACTIVITY NO.:
GNR 983, Listing Notice No. 1	9, 10, 12, 13, 19, 30, 34
GNR 984, Listing Notice No. 2	4 & 15
GNR 985, Listing Notice No. 3	2
GNR 921 of the NEM:WA	Category A: 13 & 14 Category B: 3, 7, 10 & 11

To register as an I&AP and for more information on the project please contact us:
 Michelle Venter
 Cabanga Environmental
 Tel: 011 794 7534 Fax: 011 794 6946
 E-mail: michelle@cabangaenvironmental.co.za
 Online: www.cabangaenvironmental.co.za
 Postnet Suite 470, P/Bag x3, Northriding, 2162

Please note that the Scoping Report will be made available for public review for a period of 30 days (from the 4th October 2016). The Scoping Report will be available on www.cabangaconcepts.co.za as well as at the EGM Central Offices and Evander Public Library.

4.3: POSTERS

DRAFT

EVANDER GOLD MINES LIMITED
MINING RIGHT REF.: MP 30/5/1/2/3/2/1/126

APPLICATION FOR ENVIRONMENTAL AUTHORISATION
EVANDER, MPUMALANGA PROVINCE

APPLICANT: Evander Gold Mines Limited

LOCATION: Evander, Mpumalanga

Evander Gold Mines Limited ("EGM") hereby gives notice in terms of the National Environmental Management Act, Act 107 of 1998 ("NEMA") of its intention to submit an application for environmental authorisation in terms of NEMA and the National Environmental Management: Waste Act, Act 59 of 2008 ("NEM:WA") for proposed changes to its operations.

The application relates to the installation of a second plant for the re-mining of the existing Kinross, Bracken/Leslie and Winkelhaak Tailings Storage Facilities (TSF's) ultimately consolidating them into one large TSF at the end of the life of mine. The new TSF will be constructed immediately adjacent to the existing Kinross TSF eventually encompassing the current TSF's footprint. Additional infrastructure / activities associated with the project include the installation of pumps and pipelines for the reticulation of water and slimes; the storage of additional chemicals for use within the plant; construction of return water dams; and the rehabilitation of the old Bracken/Leslie and Winkelhaak TSF's.

EGM has appointed Cabanga Environmental to undertake the necessary processes required in terms of legislation with regards to the various environmental and public participation processes.

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Time: 11:00-13:00

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GOVERNMENT NOTICE:	ACTIVITY NO.:
GNR 983, Listing Notice No. 1	9, 10, 12, 13, 19, 30, 34
GNR 984, Listing Notice No. 2	4 & 15
GNR 985, Listing Notice No. 3	2
GNR 921 of the NEM:WA	Category A: 13 & 14 Category B: 3, 7, 10 & 11

To register as an I&AP and for more information on the project please contact us:

Michelle Venter

Cabanga Environmental

Tel: 011 794 7534 Fax: 011 794 6946

E-mail: michelle@cabangaenvironmental.co.za

Online: www.cabangaenvironmental.co.za

Postnet Suite 470, P/Bag x3, Northriding, 2162



Please note that the Scoping Report will be made available for public review for a period of 30 days (from the 4th October 2016). The Scoping Report will be available on www.cabangaconcepts.co.za as well as at the EGM Central Offices and Evander Public Library.

EVANDER GOLD MINES BPK
MYNREGVERW.: MP 30/5/1/2/3/2/1/126

AANSOEK OM OMGEWINGSMAGTIGING
EVANDER, MPUMALANGA PROVINSIE

AANSOEKER: Evander Gold Mines Bpk

LIGGING: Evander, Mpumalanga

Evander Gold Mine (Edms) Bpk ("EGM") gee hiermee kennis kragtens die Wet op Nasionale Omgewingsbestuur, Wet 107 van 1998 ("WNOB") van sy voorneme om 'n aansoek om omgewingsmagtiging voor te lê kragtens WNOB en die Wet op Nasionale Omgewingsbestuur: Afval, Wet 59 van 2008 ("WNOB:A") vir die voorgenome veranderinge aan sy werksaamhede.

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EGM het Cabanga Environmental aangestel om die nodige prosesse te onderneem soos vereis deur wetgewing wat betref die onderskeie omgewings- en openbare deelnameprosesse.

Die volgende gelyste aktiwiteite kan ontstaan kragtens die WNOB OIB Regulasies (2014) en dus sal 'n Bestek- en Omgewingsimpak-assesseringsproses vir die projek gevolg word.

Kragtens die Nasionale Waterwet sal 'n aansoek ook aan die Departement van Watersake & Sanitasie gerig word vir 'n geïntegreerde watergebruiklisensieaansoek waar van toepassing.

U word hiermee genooi na die Openbare Vergadering oor die Bestekfase.

Datum: 19 Oktober 2016

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GNR 921 van die NOB:AW	Kategorie A: 13 & 14 Kategorie B: 3, 7, 10 & 11

Om as B&GP te registreer en vir meer inligting oor die projek, kontak asb:

Michelle Venter

Cabanga Environmental

Tel: 011 794 7534 Faks: 011 794 6946

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Die Bestekverslag sal op www.cabangaconcepts.co.za, asook by die EGM Sentrale Kantoor en die Evander Openbare Biblioteek beskikbaar wees.

4.5: BACKGROUND INFORMATION DOCUMENT(S)

DRAFT

BACKGROUND INFORMATION DOCUMENT

EVANDER GOLD MINES LIMITED

Mining Right Ref.: MP 30/5/1/2/3/2/1/126

Application in terms of NEMA, NEM:WA and NWA
for the re-processing of tailings, and associated
expansion of the Kinross Dump

August 2016



Postnet Suite 470
P/Bag x3
Northriding
2162

Units 5 & 6 Beyers Office Park
Bosbok Road
Randpark Ridge
Gauteng

Phone: +27 11 794 7534
Fax: +27 11 794 6946

Info@cabangaconcepts.co.za



PURPOSE OF THIS DOCUMENT

To provide Interested & Affected Parties (I&APs) with information on the proposed project, and the associated licensing process.

INVITATION TO A PUBLIC MEETING

Date: 19 October 2016

Time: 11:00-13:00

Venue: Evander Rec Club, Evander

(Please note that this meeting will be held in English)

INTRODUCTION:

Evander Gold Mines Limited ("EGM") has been operational since 1958, and has an approved mining right and Environmental Management Programme ("EMP") report in terms of the Minerals and Petroleum Resources Development Act, Act 28 of 2002 ("MPRDA") for the underground mining of gold and its associated activities.

EGM intend to install a second plant to reclaim the existing Tailings Storage Facilities (TSFs); ultimately consolidating them into one, large TSF at the end of the life of mine.

These operational changes will require authorisation in terms of the National Environmental Management Act, Act 107 of 1998 ("NEMA"); National Environmental Management Waste Act, Act 59 of 2008 ("NEM:WA"); and the National Water Act, Act 36 of 1998 ("NWA") prior to commencement. As such Cabanga has been appointed as the independent Environmental Assessment Practitioner ("EAP") to oversee and manage the application process.

LOCALITY:

Evander Gold Mine (Pty) Ltd ("EGM") has an approved mining right and Environmental Management Programme ("EMP") report for its operations. The mining right spans over numerous properties within the Govan Mbeki Local Municipality, of the Mpumalanga Province and comprises 31,783.07 Ha (see Plan 1). EGM is situated, 120km east of Johannesburg near the towns of Evander, Kinross, and Leandra and is serviced by the N17, R547, R546, R50 and R29.

The overall mining right area falls within two primary catchment areas namely the Vaal Catchment and Olifants Catchment. Surface mining infrastructure (including activities associated with this project) fall within the C12D quaternary catchment of the Vaal Catchment area.

The mining right area falls within the Grassland Biome, specifically the Soweto Highveld Grassland (Gm8) which is classed as a vulnerable/threatened. The vegetation within the specific project area can largely be considered as modified.

PROJECT DESCRIPTION:

EGM can be divided into three complexes (see Plan 2), namely:

1. Winkelhaak;
2. Kinross; and
3. Leslie.

Table 1 below summarises the current status for each of these areas:

Table 1: Operational Areas

Complex	Winkelhaak
Shaft #	1, 2, 3, 4, 5 – all shafts are dormant. The production of gold from these shafts has ceased.
Plant Status	Plant demolished.
TSF Status	Receives waste tailings from the Kinross Metallurgical Plant.

Complex	Kinross
Shaft #	#7 – active, currently used for hoisting ore and pumping fissure water. #8 – active.
Plant Status	Operational, located adjacent to the Kinross TSF at Shaft #7. Receives ore from the underground, as well as tailings from the Kinross TSF for re-processing as part of the Evander Tailings Recycling Project (ETRP).
TSF Status	No deposition is currently taking place. However, may receive waste tailings from the ETRP.
Complex	Leslie
Shaft #	#9 – on care and maintenance. #10 – decommissioned and sealed.
Plant Status	Plant demolished.
TSF Status	Dormant.

EGM intends to install a second plant ("the Elikhulu Plant"), adjacent to the Kinross Metallurgical Plant, in order to reclaim the existing 3 TSFs at a rate of 1 million tons per month. The three TSFs will be reclaimed in the following sequence:

1. Kinross;
2. Leslie; and
3. Winkelhaak.

Services and infrastructure associated with the proposed project include:

- **Elikhulu Plant:**
 - Carbon in leach ("CIL") plant, including smelt house to be constructed adjacent to the Kinross Metallurgical Plant within the mine's disturbed footprint area.
 - Additional storage of Cyanide, Hydrogen Chloride and Caustic will be required. These will be stored as per the applicable Material Safety Data Sheet ("MSDS").
- **Tailings Storage Facility (TSF):**
 - A new TSF will be required to receive the tailings from the Elikhulu Plant.
 - A penstock pipeline will run underneath the TSF to drain water into a return water dam ("RWD"). This RWD will be sized in accordance with GN704 of the NWA.
 - The sites of the Winkelhaak and Leslie TSFs will be decommissioned and rehabilitated.
- **Slurry reticulation:**
 - Pump and piping systems will be constructed to transfer mined slurry to the Elikhulu plant (at a rate of ±595 litres/second). This will include the construction

of a new pump station at each of the existing TSFs, as well as the installation of new pipelines within existing servitudes.

- **Water supply:**
 - Water for the project will be sourced from the mine's evaporation dam, known as the Leeuwpan Dam, as well as from the mine's underground workings.
 - This water will be piped to each of the reclamation sites as well to the Elikhulu plant at a rate of ± 165 litres/second. New pipelines will be installed however these will be located within existing servitudes.
 - A 15,000m³ reservoir will be constructed at the Elikhulu plant area to facilitate plant feed.
 - A pump station will be constructed at the Leeuwpan Dam.
- **Power supply:**
 - Power will be supplied by Eskom, by means of existing substations.
 - Additional power lines may be required however, these will remain under 33kV.

No changes are proposed to the underground mine areas or access points.

SITE ALTERNATIVES:

Site alternatives considered for the new TSF position are briefly discussed below (see Figure 1).

- **Option 1 (Preferred Alternative):**

Location: Proposed site is immediately adjacent to the existing, Kinross TSF. It is proposed that the new TSF will total 460Ha, eventually encompassing the footprint of the current Kinross TSF as reclamation progresses. Three alternatives for the layout of the TSF are currently being considered, these are indicated in Figure 2. Option 1C is the preferred alternative.

Current land use: Existing TSF with partially open but disturbed veld.

The new TSF and RWD will intrude on two drainage lines, these will be diverted where possible.

Benefits associated with this site include shorter pumping distances, with the possibility of using existing servitudes and crossings for pipelines.

- **Option 2 (Alternative):**

Location: Proposed site is located west south west of Kinross.

Current land use: Farmland.

Pipelines would need to cross three perennial rivers as well as irreplaceable and important biodiversity areas.

- **Option 3 (Excluded):**

Location: Proposed site located west of Kinross.

Current land use: Farmland and open veld.

A portion of the site falls within a critical biodiversity area; and a number of wetlands and water resources would be affected by the proposed TSF and associated pipelines. As such Option 3 has been excluded and will not be considered further.

- **Option 4 (Excluded):**

Location: Proposed site located north west of Kinross.

Current land use: Farmland and open veld with dwellings.

The majority of the site falls within a critical biodiversity area; and a number of wetlands and water resources would be affected by the proposed TSF and associated pipelines. As such Option 4 has been excluded and will not be considered further.

REGULATORY REQUIREMENTS:

South African law requires that the environmental authorisation be sought for certain activities prior to commencement. As part of the application process for environmental authorisation it is necessary to assess the environmental and social impacts associated with the activities, so as to identify any potential negative and/or positive consequences as result thereof. Following which measures must be proposed to avoid or minimise these impacts.

In terms of NEMA and its EIA Regulations (GNR 983/GNR 984/GNR 985) the following listed activities may be applicable to the proposed project, as such the application is subject to a full Scoping and Environmental Impact Assessment report ("S&EIR") process:

- **GNR 983, Activity 9:** The development of infrastructure exceeding 1km for the transportation of water or storm water with an internal diameter of >36cm; or with a throughput >120 litres/second.
- **GNR 983, Activity 10:** The development of infrastructure exceeding 1km for the transportation of process water, waste water, return water, or slimes with an internal diameter of >36cm; or with a throughput >120 litres/second.
- **GNR 983, Activity 12:** The development of infrastructure or structures with a footprint of >100m² where such development occurs within a watercourse.
- **GNR 983, Activity 13:** Off stream storage of water including dams and reservoirs with a combined capacity of >50,000m³.
- **GNR 983, Activity 19:** The infilling or depositing of any material >5m³ into or the dredging, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more >5m³ from a watercourse.
- **GNR 983, Activity 30:** Any process or activity identified in terms of the National Environmental Management: Biodiversity Act, Act 10 of 2004.
- **GNR 983, Activity 34:** The expansion or changes to existing facilities for any process or activity where such expansion or changes will result in the need for a permit or licence or an amended permit or licence in terms of national or provincial legislation.
- **GNR 984, Activity 4:** The development of facilities for the storage and handling of dangerous goods with a combined capacity of >500m³.
- **GNR 984, Activity 15:** The clearance of an area of >20 Ha of indigenous vegetation.
- **GNR 985, Activity 2:** The development of reservoirs for bulk water supply of more than 250m³.

The following listed activities as per NEM:WA's Waste Activities Regulation (GNR921) are applicable to the application and also subject to a full S&EIR process:

- **Category A, Activity 13:** The expansion of a waste management activity listed in Category A or B of this schedule.

- **Category A, Activity 14:** The decommissioning of a facility for a waste management activity listed in Category A or B of this Schedule.
- **Category B, Activity 3:** The recovery of hazardous waste in excess of 1 ton per day.
- **Category B, Activity 7:** The disposal of any quantity of hazardous waste to land.
- **Category B, Activity 10:** 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).
- **Category B, Activity 11:** The establishment or reclamation of a residue stockpile or residue deposit resulting from activities which require a mining right in terms of the MPRDA.

The Department of Mineral Resources ("DMR") is the Competent Authority for mining related activities in terms of both NEMA and NEM:WA. As such the processes will be combined into one application.

In terms of Section 102 of the MPRDA an application must also be submitted to the Minister to amend the EMP/environmental authorisation.


An application will also be made to DWS for an integrated water use licence application ("IWULA"). This will be accompanied by an Integrated Water and Waste Management Plan ("IWWMP").

ENVIRONMENTAL AUTHORISATION PROCESS:

The application process will be approached as follows:

- **Initiation & Application Phase:**

- Conduct pre-application meeting with DMR;
- Compile and submit application form(s) to DMR;
- Identify Interested and Affected Parties ("I&APs");
- Notify I&APs and relevant stakeholders of the proposed project (circulate BIDs); and
- Place site notices and advertisements;



We are here

- **Scoping Phase:**

- Looks at the baseline environment on a desktop level and identifies potential impacts associated with the project;
- Assesses preliminary disadvantages and advantages of alternative project aspects.
- Specialist studies are proposed where significant impacts are anticipated or where insufficient information is available;
- Scoping Report is made available for public review and comment;
- Public meeting held to identify additional impacts and concerns;
- Scoping Report is updated to include all comments prior to submission to the DMR; and
- DMR approves the Scoping Report or requests additional information.

- **EIA / EMP Phase:**

- Specialist studies undertaken;
- Consolidates the findings of the various specialist studies, I&AP and stakeholder input;
- Potential impacts are rated and mitigation measures proposed;
- Monitoring programmes proposed to ensure mitigation measures are efficient;

- EIA / EMP report is made available for public review and comment;
- 2nd Public meeting is held to present the EIA / EMP report and note any additional comments and concerns;
- EIA / EMP Report is updated to include all comments prior to submission to the DMR; and
- DMR accepts the EIA / EMP Report or requests additional information.
- **Record of Decision:**
 - DMR makes a decision and either approves or rejects the application for environmental authorisation; and
 - All I&APs are notified of the outcome of application, and their right to appeal.

PRELIMINARY IMPACTS:

The following aspects of the environment will be assessed in the S&EIR:

- Topography;
- Climate;
- Terrestrial Ecology;
- Aquatic Ecology;
- Wetland Characteristics;
- Surface Water;
- Groundwater;
- Air Quality;
- Soils, land use and land capability;
- Cultural heritage; and
- Social impacts.

A number of specialist studies have been completed for EGM in the past, these will be utilised as far as possible and supplemented where necessary.

PUBLIC PARTICIPATION PROCESS (PPP) – Your Involvement:

You are hereby invited to participate freely and submit any questions or information you feel may contribute to the S&EIR process.

Public involvement is an essential component of the process. It addresses the right of Interested and Affected Parties (I&APs) to be informed of the proposed activities and to be involved in decisions that affect them. It also affords the EAP the opportunity to assess and address the issues and concerns raised by I&APs thus allowing us to assess all the potential impacts of the proposed project.

- **Invitation to Register:**

Should you wish to register as an I&AP and kept informed on this project kindly complete the attached questionnaire and return to Cabanga or alternatively register on www.cabangaenvironmental.co.za

- **Invitation to Public Meeting:**

You are hereby invited to attend the Scoping Phase Public Meeting:

Date: 19 October 2016

Time: 11:00-13:00

Place: Evander Rec Club, Evander

(Please note that this meeting will be held in English)

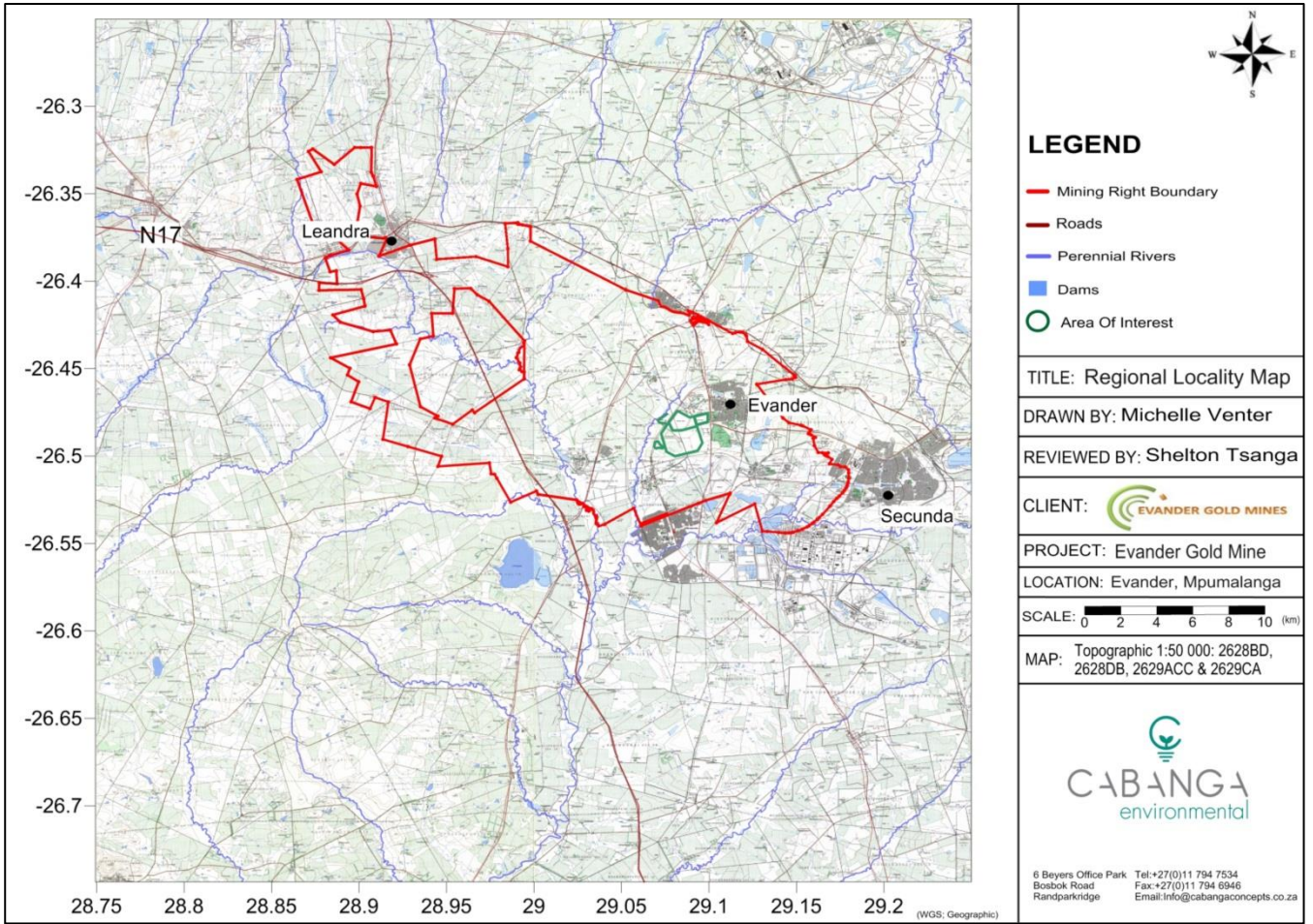
Please RSVP on or before the 12th October 2016

- **Invitation to comment:**

The Scoping report will be made available for public review and comment for a period of thirty (30) days from the **4 October 2016**. The report will be available on www.cabangaenvironmental.co.za under the tab marked "Public Participation"; as well as at the following locations:

LOCATION:	CONTACT PERSON:	CONTACT DETAILS:
Public Library	Agnes	017 620 6318
EGM Main Offices	Boet Conradie	017 620 1634

Plan 1: Regional Map indicating the overall mining right area



Plan 2: Locality Map indicating the mine infrastructure areas

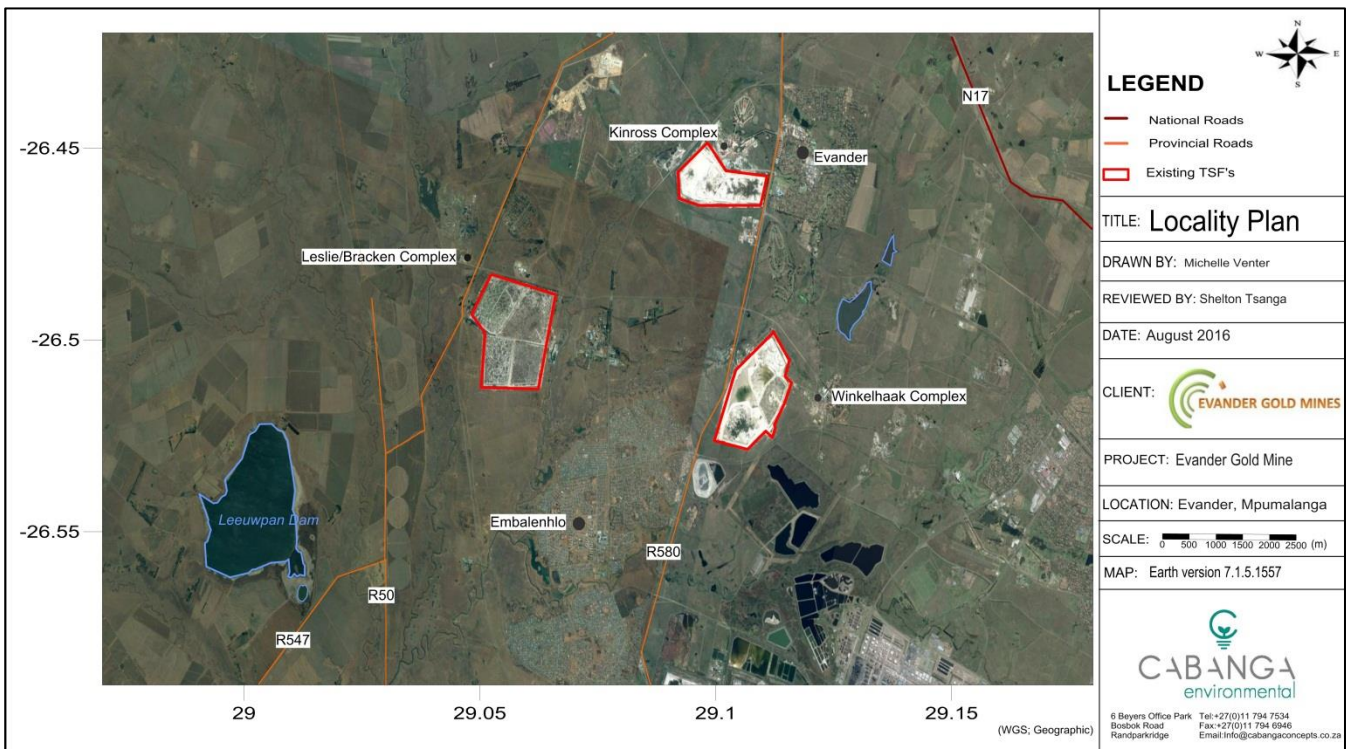


Figure 1: Site Alternatives

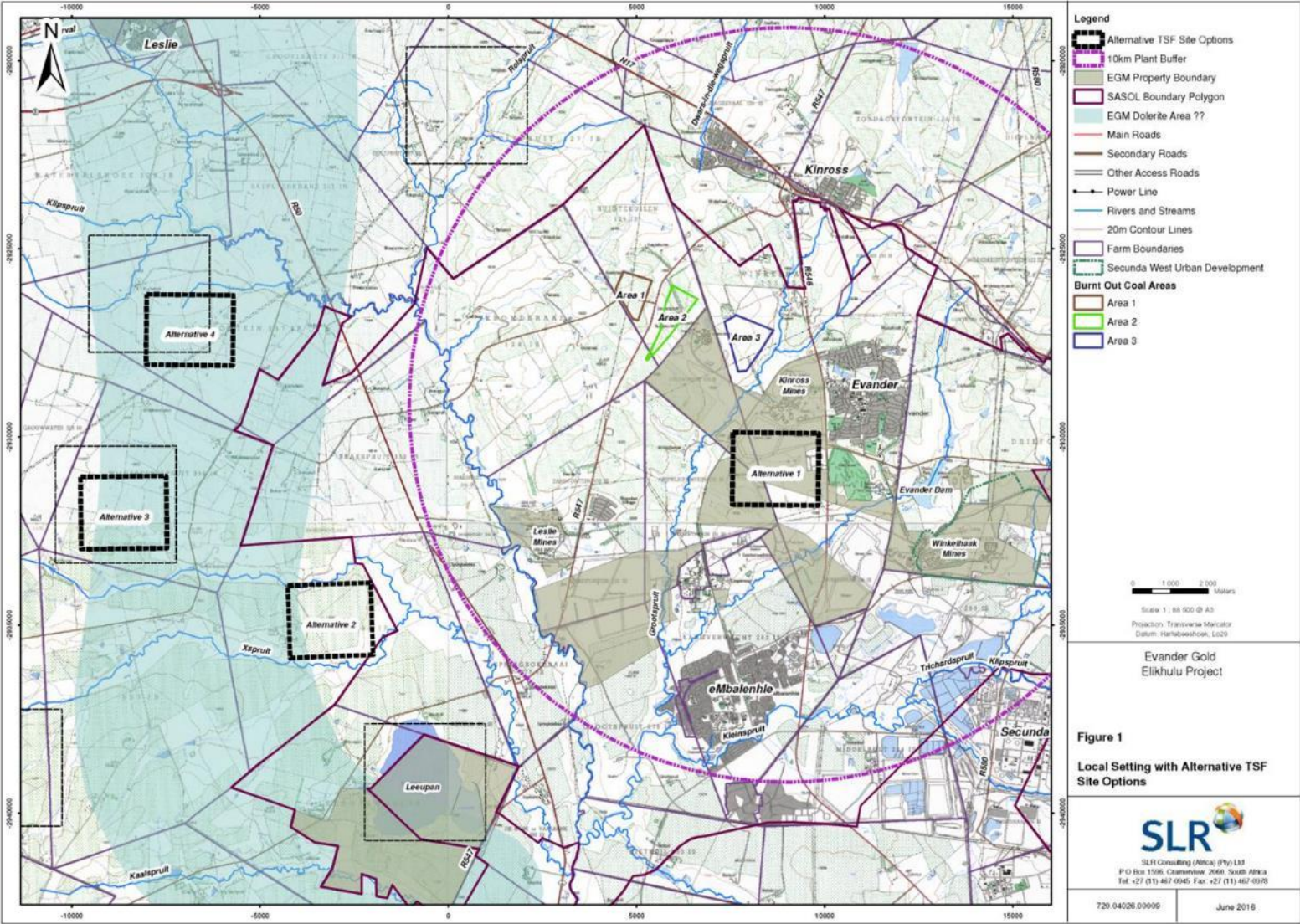
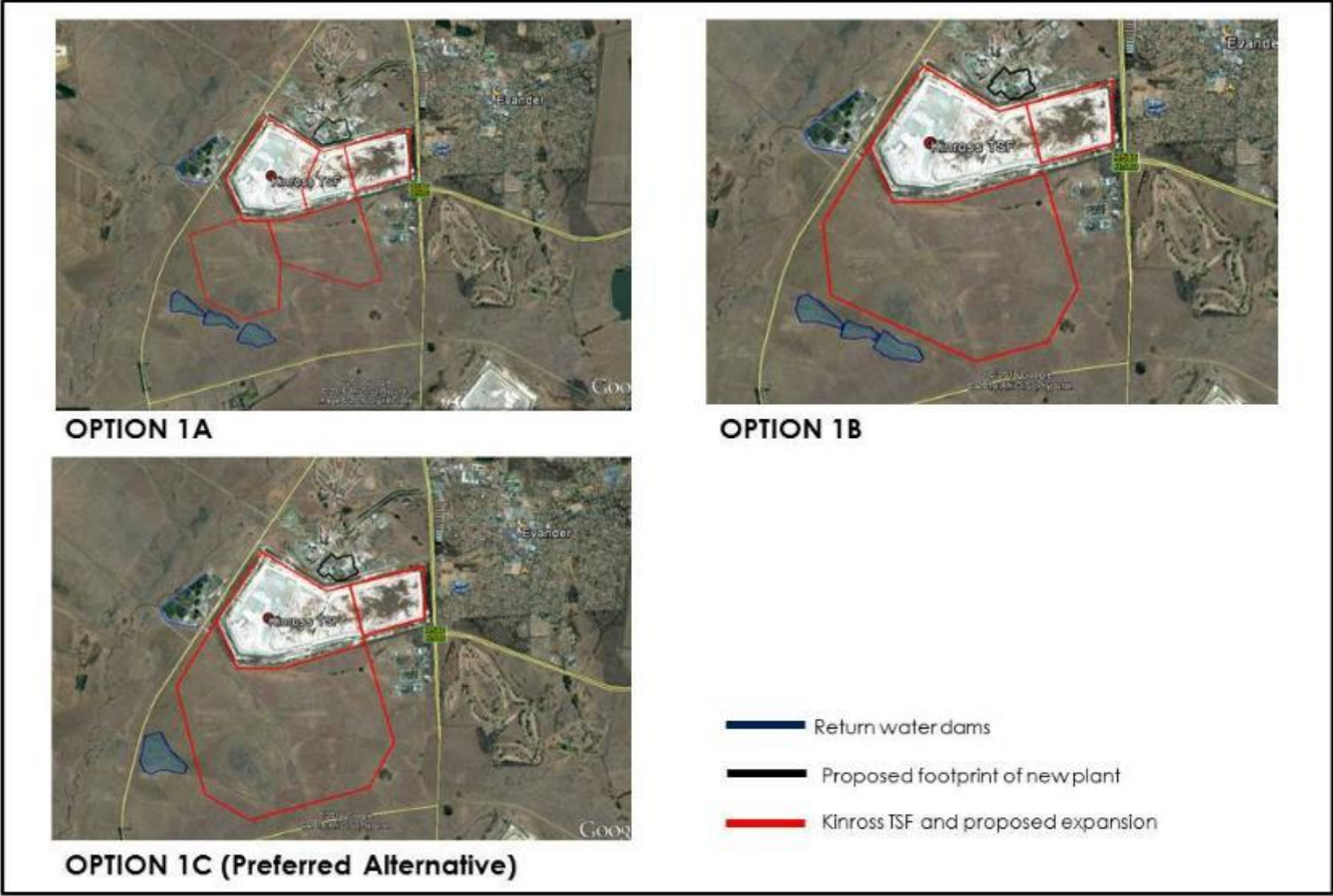


Figure 2: Kinross TSF Expansion, Layout Alternatives



PUBLIC PARTICIPATION QUESTIONNAIRE: EVANDER GOLD MINE

Please complete and return to Cabanga via e-mail: michelle@cabangaenvironmental.co.za;

Fax: (011) 794 6946 or Postnet Suite 470, P/Bag X3, Northriding, 2162

Name:		Surname:	
Telephone No.:		Fax No.:	
Post:			
E-mail:			
How would you prefer to be contacted:	<input type="checkbox"/> E-mail <input type="checkbox"/> Fax <input type="checkbox"/> Post <input type="checkbox"/> Telephone <input type="checkbox"/> SMS		
Are you an immediately affected or adjacent landowner or user? If no, what is your interest in the project? If yes, please indicate your farm / property name as well as details on the current land use.	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Do you have any vested interest in the approval or refusal of this project? If yes, please elaborate.	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Do you feel that the proposed activities will impact on you and / or your socio-economic conditions? How?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Do you have any specific concerns with regards to the project (e.g. water, air pollution)?			
Are you aware of any sensitive areas that should be avoided (i.e. graves, cultural sites, endangered species, special environmental features or areas etc.)			
Do you have any other questions or concerns regarding the project?			
Do you know of any other persons, organisations or parties that should be notified? Please provide contact details.	<input type="checkbox"/> Yes <input type="checkbox"/> No		

EVANDER GOLD MINES LIMITED

**Ireferensi yeLungelo lokugubha emayini: MP
30/5/1/2/3/2/1/126**

Isicelo sokuphinde kwenziwe ngendlela ethile ngenhloso yokuphinda kusetshenziswe izinsalela, kanye nokunwetshwa kwe-Kinross Dump okuhambisana nakho ngokwe-NEMA, NEM:WA kanye ne-NWA

Ncwaba 2016



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INHLOSO YALE DOKHUMENTI

Ukuhlinzeka labo abanentshisekelo nalabo abathintekayo (I&APs) ngolwazi ngomklamo ohlongozwayo, kanye nangenqubo yokutholakala kwezimvume ezihambisana nakho lokhu.

ISIMEMO SOKUTHAMELA IMIHLANGANO YOMPHAKATHI

Usuku: 19 kuMfumfu 2016
Isikhathi: 11:00-13:00
Indawo: Evander Rec Club, Evander

(Sicela wazi ukuthi lomhlangano uzoqhutshwa ngesiNgisi))

ISINGENISO:

Imayini yegolide yakwa-Evander Gold Mines Limited ("EGM") yaqala ukusebenza kusukela ngonyaka we-1958, futhi inelungelo eligunyaziwe lokugubha ezimayini kanye nombiko woHlelo lokuPhathwa kwezeMvelo ("EMP") ngokoMthetho wokuThuthukiswa kweNgcebo yokuMbiwa phansi kanye noWoyela ongahluziwe, uMthetho nombolo 28 wezi-2002 ("MPRDA") yokumbiwa kwegolide ngaphansi komhlaba kanye neminye imisebenzi ehambisana nalokho.

Abakwa-EGM bahlose ukufaka indawo yesibili yokusebenzela ukuze baphinde basebenzise lendawo okulahlwa kuyo Izinsalela; bese bekuhlanganisa bakwenze kube yindawo eyodwa enkulu yokulahla udoti uma imayini isiphelelwa yisikhathi sokusebenza.

Ngaphambi kokuthi kuqalwe ukusetshenzwa, lezi zinguquko zokusebenza zizodinga ukuthi kutholakale imvume ngokoMthetho wokuPhathwa kwezeMvelo kuZwelonke, uMthetho 107 wezi-1998 ("NEMA"); uMthetho kaZwelonke wezeMvelo wokuPhathwa kokulahlwa kukaDoti, uMthetho 59 wezi- 2008 ("NEM:WA"); kanye noMthetho wezaManzi kuZwelonke, uMthetho 36 wezi-1998 ("NWA"). Ukuze kufezeke lokhu kube sekuqokwa abakwaCabanga ukuthi kube yibo abazoHlola ezeMvelo ("EAP") babhekane baphinde baphathe inqubo yokufakwa kwesicelo.

INDAWO:

Imayini yegolide yakwa-Evander Gold Mine (Pty) Ltd ("EGM") inelungelo eligunyaziwe lokugubha ezimayini kanye nombiko woHlelo lokuPhathwa kwezeMvelo ("EMP") ukuze bakwazi ukwenza imisebenzi yabo. Ilungelo lokugubha ezimayini lifaka nezinye izindawo eziningi ezingaphansi kukaMasipala waseKhaya i-Govan Mbeki, yasesiFundazweni saseMpumalanga kanti futhi inamahektha ayizi-31,783.07 (bona uHlelo 1). Abakwa-EGM bazinze endaweni engamakhilomitha ayi-120 empumalanga neGoli eduze kwamadolobha ase-Evander, Kinross, kanye ne-Leandra kanti isewiswa yi- N17, R547, R546, R50 kanye ne-R29.

Lonke ilungelo lezindawo zokugubha izimayini lingena ezindaweni ezimbili ezinkulu ezaziwa nge-Vaal Catchment kanye ne-Olifants Catchment. Inqalasisizinda yendawo engaphezulu ezimayini (kubandakanya imisebenzi ehambisana nomklamo) ingena ngaphansi kwe-C12D eyindawo yesine yase-Vaal Catchment.

Indawo enelungelo lokugubha izimayini ingena ngaphansi kwe-Grassland Biome, ikakhulukazi i-Soweto Highveld Graasland (Gm80 ethathwa njengesebungozini / esabisayo. Izimila ezisendaweni ebekelwe umklamo zingathathwa njengezingaguqulwa.

INCAZELO NGOMKLAMO:

: I-EGM ingahlukaniswa ngezindawo ezintathu (bheka uHlelo 2), ezaziwa:

1. Nge-Winkelhaak;
2. I-Kinross; kanye
3. Ne-Leslie.

Ithebuli 1 elingezansi lifingqa isimo samanje mayelana nalezi zindawo:

Ithebuli 1: Izindawo zokusebenzela

Indawo	Winkelhaak
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Umgodi #	1, 2, 3, 4, 5 –Yonke imigodi ayisebenzi. Ukukhiqizwa kwegolide kulemigodi sekumile.
Isimo sendawo yokusebenzela	Indawo yokusebenzela ibhidliziwe.
Isimo sokulahlwa kwezinsalela	Ithola izinsalela ezingudoti ovela endaweni yokusebenzela ebizwa nge-Kinross Metallurgical Plant.
Indawo	Kinross
Umgodi #	#7 –Uyasebenza, okwamanje usetshenziselwa ukuphakamisa insimbi esaxubene netshe kanye nokupampa amanzi endaweni eqhekekile #8 – Uyasebenza.
Isimo sendawo yokusebenzela	Iyasetshenziswa, iseduze kwendawo yokulahlwa udoti i-Kinross Emgodini #7. Ithatha insimbi exubene netshe ngaphansi komhlaba, kanye nezinsalela ezisuka endaweni yokulahlwa udoti i-Kinross ukuze kuphinde kusetshenziswe njengengxenywe yoMklamo wokuKhiqiza kabusha kwezinsalela esezisebenzile zase-Evander i-Evander Tailings Recycling Project (ETRP)
Isimo sokulahlwa kwezinsalela	Akukho okulahlwa lapha okwamanje. Kodwa-ke, ingase ithole isinsalela zikadoti osuka e-ETRP.
Indawo	Leslie
Umgodi #	#9 –Isengaphansi kokunakekelwa nokulungiswa. #10 –Iyekisiwe ukusebenza futhi ivaliwe.
Isimo sendawo yokusebenzela	Indawo yokusebenzela ibhidliziwe.
Isimo sokulahlwa kwezinsalela	Ilalisiwe.

I-EGM ihlose ukwakha enye indawo yesibili yokusebenzela ("i-Elikhulu Plant"), eduzane ne-Kinross Metallurgical Plant, ukuze ikwazi ukuphinda ibuyise izindawo ezi-3 zokulahlwa udoti wezinsalela ngenani lamathani ayisigidi esi-1 ngenyanga. Lezi zindawo zokulahlwa udoti zizobuyiswa ngokulandelana kanje:

1. Kinross;
2. Leslie; kanye
3. Winkelhaak.

Umsebenzi kanye nengqalazizinda ehambisana nomklamo ohlongozwayo ibandakanya:

- **Elikhulu Plant:**

- Indawo yokuhlukanisa ikhabhoni ("CIL"), kubandakanya indlu yokuncibikalisa insimbi ezokwakhiwa eduzane ne-Kinross Metallurgical Plant endaweni elinyazwe ukungcoliswa khona emayini.
- Kuzodingeka enye indawo yokugcina i-Cyanide, Hydrogen Chloride kanye ne-Caustic. Lokhu kuzogcinwa kulandelwa imiyalelo esephepheni lolwazi lokuphepha kwezinto i-Material Safety Data Sheet ("MSDS").
- **Indawo yokulahla izinsalela:**
 - Kuzodingeka indawo entsha yokulahla udoti ezobe uyizinsalela zase-Elikhulu Plant.
 - Ipayipi elikhulu lizohamba ngaphansi kwendawo yokulahla udoti ukuze limunce amanzi abuyele edamini elibuyisa amanzi ("RWD"). Le-RWD izokwakhiwa ilinganiswe ne-GN704) ye-NWA.
 - Izindawo zokulahla udoti ezise-Winkelhaak kanye ne-Leslie zizoyekiswa ukusebenza bese ziyalaliswa ukuze zihlunyeleliswe.
- **Amapayipi ahambisa udaka:**
 - Uhlelo lokuphampa kanye namapayipi luzofakwa ukuze luhambise udaka lwemayini luye e-Elikhulu plant (ngezinga elingu- ± 595 wamalitha ngomzuzwana). Lokhu kuzobandakanya ukwakhiwa kwesiteshi esisha sokuphamba kuzo zonke izindawo ezikhona zokuphampa, kanye nokufakwa kwamapayipi amasha ezindaweni ezikhona.
- **Ukuhlinzekwa kwamanzi**
 - Amanzi alomklamo azotholakala edamini lomhwamuko lemayini, elaziwa ngokuthi yi-Leeuwpan Dam, kanye nasezindaweni zemayini okusetshenzwa kuzo ezingaphansi komhlaba.
 - Lawa manzi azompontshwa ayiswe ezindaweni ezibuyiswayo aphinde aye nase-Elikhulu plant ngezinga elingu- ± 165 amalitha ngomzuzwana. Kuzofakwa amapayipi amasha yize noma wona ezofakwa ngasezindaweni ezikhona ezisebenzayo.
 - Idamu elikhulu elingu- 15,000m³ lizokwakhiwa endaweni yokusebenzela i-Elikhulu ukuze liphakele izindawo zokusebenzela.
 - Indawo yokumpompa amanzi izokwakhiwa edamini i-Leeuwpan Dam.
- **Ukuhlinzekwa kwamandla/kukagesi**
 - Amandla azohlinzekwa ngabakwa-Eskom, ngokusebenzisa lezi ziteshi ezincane ezikhona.
 - Kungase kube nesidingo sabanye olayini bokutholakala kwamandla kodwa lokhu kuzohlala kungaphansi kuka-33kV.

Akukho zingquko ezihlongozwayo ezimayini ezingaphansi komhlaba noma ezindaweni zokungena nokuphuma.

EZINYE IZINDAWO EZINGASETSHENZISWA:

Ezinye izindawo ezingasetshenziswa ezibhekekile njengezingaba yindawo entsha yokulahla udoti zichazwe kafushane ngezansi (bheka Isithombe 1).

- **Okungakhethwa koku-1 (ekhethwayo ephambili):**

Indawo: Indawo ehlongozwayo iseduze nendawo yokulahla udoti i-Kinross. Kuhlongozwa ukuthi indawo entsha yokulahla udoti izoba ngamahektha ayi-460Ha, ezobe isivala indawo elinyazwe ukungcola kwendawo yokulahla udoti i-Kinross uma ukubuyisela kuqhubeka.

Indlela ezoma ngayo indawo yokulahla udoti izokhethwa kwezintathu, lokhu kukhunjiswe Esithombeni 2. Okungakhethwa koku-1C yiyona ndawo ekhethwayo ephambili.

Ukusebenza komhlaba njengamanje: Indawo ekhona yokulahla udoti izovulwa kancane kodwa kuzosetshenziswa lendawo endlalekile.

Indawo entsha yokulahla udoti kanye ne-RWD zizohlangana emapayipini amabili okukhipha amanzi, lawa mapayipi azohlukaniswa uma kwenzeka.

Izinzuzo ezihambisana nale ndawo kubandakanywa indawo emfishane okumpontshwa kuyo, amathuba okuthi kungenzeka kusetshenziswe izindawo esezikhona kanye nokuphambana kwamapayipi.

- **Okungakhethwa kwesi-2 (ekhethwayo)**

Indawo: Indawo ehlongozwayo isentshonalanga yeningizimu esentshonalanga kwe-Kinross.

Ukusebenza komhlaba njengamanje: Umhlaba wepulazi.

Olayini bamapayipi kuzomele banqamule imifula emithathu kanye nezindawo ezingalungiseki uma zilimele nezindawo ezibalulekile zezinto ezinhlobonhlobo eziphilayo.

- **Okungakhethwa okwe-3 (Okubekwe eceleni)**

Indawo: Indawo ehlongozwayo isentshonalanga ye-Kinross.

Ukusebenza komhlaba njengamanje: Umhlaba wepulazi kanye nesigange esivulekile

Ingxenye yendawo ingena ngaphansi kwendawo ebalulekile ehlala izinhlobonhlobo eziphilayo; kanye nomhlaba omningi omanzi kanye nemithombo yamanzi nayo izothinteka ngenxa yendawo yokulahla ehlongozwayo kanye nolayini bamapayipi abahambisana nalokhu. Ngenxa yalokhu Okungakhethwa kwe-3 kubekwe eceleni futhi ngeke kusabhekwa.

- **Okungakhethwa okwe-4 (Okubekwe eceleni)**

Indawo: Indawo ehlongozwayo isenyakatho esentshonalanga ye-Kinross.

Ukusebenza komhlaba njengamanje: Umhlaba wepulazi kanye nesigange esivulekile futhi kunezindawo zokuhlala.

Ingxenye enkulu yendawo ingena ngaphansi kwendawo ebalulekile ehlala izinhlobonhlobo eziphilayo; kanye nomhlaba omningi omanzi kanye nemithombo yamanzi nayo izothinteka ngenxa yendawo yokulahla ehlongozwayo kanye nolayini bamapayipi abahambisana nalokhu. Ngenxa yalokhu Okungakhethwa kwe-4 kubekwe eceleni futhi ngeke kusabhekwa.

IZIDINGO ZOKULAWULA / OKUDINGWA UMTHETHO

Umthetho waseNingizimu Afrika udinga ukuthi kutholakale imvume kwabezemvelo ngaphambi kokuthi kwenziwe izinto ezithile. Njengengxenye yenqubo yokufaka isicelo sokuthola imvume kwabezemvelo kudingeka ukuthi kuhlolwe umthelela ohambisana nalokhu ongaba khona kwimvelo nasemphakathini, ukuze kuhlonzwe okungaba nomthelela omubi kanye/noma umuhle. Emva kwalokho kuzobe sekubekwa izindlela zokugwema noma zokunciphisa lowo mthelela.

Ngokwe-NEMA kanye neMithethonqubo ye-EIA (GNR 983/GNR 985) lezi zinto ezilandelayo zingasebenza kulomklamo ohlongozwayo, ngalokho-ke isicelo kumele sithole umbiko wenqubo yokuHlaziya nokuHlola uMthelela kwezeMvelo ("S&EIR"):

- **GNR 983, Umsebenzi 9:** Ukukhuliswa kwengqalasizinda edlula 1km yokuhanjiswa kwamanzi noma amanzi ezikhukhula ngedayamitha yangaphakathi >36cm; noma enomthamo >120 amalitha ngomzuzwana.
- **GNR 983, Umsebenzi 10:** Ukukhuliswa kwengqalasizinda edlula 1km yokuhanjiswa kwamanzi enqubo, amanzi angcolile, amanzi abuyiswayo, noma udaka ngedayamitha yangaphakathi >36cm; noma enomthamo >120 amalitha ngomzuzwana.
- **GNR 983, Umsebenzi 12:** Ukukhuliswa kwengqalasizinda noma izakhiwo ezinendawo engu->100m² lapho kwenziwa khona lentuthuko endaweni enamanzi.
- **GNR 983, Umsebenzi 13:** Indawo engewona umfula egcina amanzi kubandakanya amadamu namadamu amakhulu anomthamo ohlanganisiwe ongu->50,000m³
- **GNR 983, Umsebenzi 19:** Ukugcwaliswa noma ukufakwa kwanoma yiyiphi into 5m³ phakathi noma ukugujwa, ukususwa noma ukususa inhlabathi, isihlabathi, amagobolondo, izinhlayiya zamagobolondo, amatshe noma amadwala angaphezu kuka >5m³ endaweni enamanzi.
- **GNR 983, Umsebenzi 30:** Noma yiyiphi inqubo noma umsebenzi ohlonzwe ngokoMthetho wokuPhathwa kweMvelo kuZwelonke: *Izinhlolobhobo eziphilayo i-National Environmental Management: Biodiversity Act, Act 10 of 2004.*
- **GNR 983, Umsebenzi 34:** Ukunwetshwa noma izinguquko ezindaweni ezikhona okwenziwa kuzo nanoma yiyiphi inqubo noma umsebenzi lapho lokhu kunweba noma inguquko izodinga ukuthi kutholakale imvume noma ilayisensi noma edinga kuchitshiyelwe imvume noma ilayisensi ngokomthethonqubo kazwelonke noma wesifundazwe.
- **GNR 984, Umsebenzi 4:** Ukukhuliswa kwendawo yokugcina noma yokuphatha izimpahla ezinobungozi kunomthamo ohlanganisiwe ongu - >500m³.
- **GNR 984, Umsebenzi 15:** Ukutholakala kwendawo engamahektha angu ->20 Ha kwezimila zomdabu.
- **GNR 985, Umsebenzi 2:** Ukunwetshwa kwamadamu amakhulu ukuze kuhlinzekwe amanzi amaningi angaphezu kuka-250m³.

Le misebenzi esohlwini olungezansi ngokweMithethonqubo yeMisebenzi yokulahla udoti ye-NEM:WA (GNR921) iyasebenza uma kufakwa isicelo futhi izolandela inqubo ephelele ye-S&EIR:

- **Isigaba A, Umsebenzi 13:** Ukwengenzwa komsebenzi wokuphatha ukulahlwa kukadoti esohlwini olusesigabeni A noma B salesheduli.
- **Isigaba A, Umsebenzi 14:** Ukuyekwa kokusetshenziswa kwendawo yomsebenzi wokuphatha kokulahlwa kukadoti esohlwini olusesigabeni A noma B salesheduli.
- **Isigaba B, Umsebenzi 3:** Ukutholakala kukadoti oyingozi ongaphezu kwethani eli-1 ngosuku.
- **Isigaba B, Umsebenzi 7:** Ukulahlwa kwanoma yinani elingakanani likadoti oyingozi emhlabeni.
- **Isigaba B, Umsebenzi 10:** Ukwakhiwa kwendawo yomsebenzi wokuphatha udoti esohlwini olusesigabeni B salesheduli (awukhishwa eceleni kwemisebenzi ehambisana nokuphatha udoti)
- **Isigaba B, Umsebenzi 11:** Ukusungulwa noma ukuvuswa kwendawo yokubeka isitoko noma izinsalela zokulahlwayo okungumphumela wemisebenzi edinga ilungelo lokugubha izimayini ngokomthetho we-MPRDA.

UMnyango weNgcebo yeziMbiwa phans ("DMR") yiwona Onegunya Elifanele lemisebenzi ehambisana nokugubha ezimayini ngokwe-NEMA kanye ne-NEM:WA. Ngalokho-ke izinqubo zizohlanganiswa zibe yisicelo esisodwa.

NgokweSigaba 102 se-MPRDA isicelo kumele siphinde sithunyelwe kuNgqongqoshe ukuze ezochibiyela i-EMP/ imvume yezemvelo.

Kuzophinde kufakwe isicelo esihlanganisile ku-DWS selayisensi yokusebenzisa amanzi ("IWULA"). Lokhu kuzohamba noHlelo oluDidiyele lokuPhatha Amanzi noDoti ("IWWMP").

INQUBO YOKUTHOLA IMVUME KWABEZEMVELO:

Inqubo yokufaka isicelo izohamba kanje:

- **Isigaba sokuqala kanye nesokufaka isicelo:**

- Ukubamba imihlangano ngaphambi kokufaka isicelo ne-DMR;
- Nokuhlanganisa kanye nokuthumela amafomu okufaka isicelo ku-DMR;
- Ukuhlonza Abantu abanentshisekelo nalabo abathintekayo ("I&APs");
- Ukwazisa abantu abanentshisekelo nalabo abathintekayo i-I&AP kanye nabababiqhaza abafanele ngomklamo ohlongozwayo (kuzungeleziswe iDokhumenti yolwazi i-BID); kanye
- Ukubeka izaziso zendawo kanye nezikhangisi.

Silapha

- **Isigaba sokuhlaziya:**

- Lesi sigaba sibheka indawo okuzoqalwa kuyo ezingeni lekhompyutha bese sihlonza umthelela ongase ube khona ohambisana nalomklamo;
- Sihlola ububi nobuhle kanye nokunye okungenziwa ngezinto ezithinta umklamo ngaphambi kokuthi uqale.
- Kuphakanyiswa ucwaningo olwenziwe ongoti lapho umthelela omkhulu ungase ube khona noma lapho kungatholakalanga khona ulwazi ulwanele;
- Kube sekwenziwa uMbiko wokuHlaziya utholakale emphakathini ukuze umphakathi ukwazi ukuwubuyekeza kanye nokuphawula ngawo;
- Kubanjwa imihlangano yomphakathi ukuze kuhlonzwe okunye okungaba nomthelela kanye nokuwukhathazayo umphakathi;
- Umbiko wokuHlaziya ube usufakwa ulwazi lwakamuva ukuze kubandakanywe nakho konke ukuphawula komphakathi ngaphambi kokuthi uthunyelwe ku-DMR; bese
- I-DMR iphasisa uMbiko wokuHlaziya noma ucele ulwazi olwengeziwe ngomklamo lowo.

- **Isigaba se-EIA / EMP**

- Ongoti sebelwenzile ucwaningo;
- Bahlanganise imiphumela yocwaningo olwenziwe ongoti abehlukene, abantu abanentshisekelo nalabo abathintekayo naye nabababiqhaza baba negalelo;
- Kulinganiselwa ukuthi umthelela ongaba khona ungakanani bese kuphakanyiswa izindlela ezingenziwa ukuwunqanda;
- Kuphakanyiswa izinhlelo zokuqapha ukuze kuqinisekiswa ukuthi izindlela zokunqanda umthelela ziyasebenza;
- Kwenziwa umbiko we-EIA / EMP utholakale emphakathini ukuze umphakathi ukwazi ukuwubuyekeza uphinde uphawule ngawo;

- Kubanjwa umhlangano wesibili womphakathi ukuze kwethulwe umbiko we-EIA / EMP bese kubhalwa nokunye ukuphawula okuvelayo nokukhathazeka komphakathi;
- Umbiko we-EIA / EMP ube usufakwa ulwazi lwakamuva ukuze kubandakanywe nakho konke ukuphawula komphakathi ngaphambi kokuthi uthunyelwe ku-DMR; bese
- I-DMR iphasisa umbiko wokuHlaziya noma ucele ulwazi olwengeziwe ngomklamo lowo.
- **Ukubhalwa kwesinqumo:**
 - I-DMR wenza isinqumo sokuthi uyasemukela noma uyasichitha isicelo semvume kwabezemvelo; bese
 - Kwaziswa bonke labo abanentshisekelo nalabo abathintekayo ngomphumela wesicelo, kanye nelungelo labo lokusidlulisela enkantolo yamacala lesosinqumo.

IMITHELELA NGAPHAMBI KOKUQALA UMKLAMO:

Lezi zinto ezilandelayo ngendawo/ngemvelo zizohlolwa ku-S&EIR:

- Ukuma kwendawo;
- Isimo sezulu;
- Ezemvelo yeziphilayo i-Terrestrial Ecology
- Ezemvelo zasemanzini i-Aquatic Ecology
- Indawo ezizungezwe noma ezembozwe amanzi;
- Amanzi angaphezulu;
- Amanzi asemhlabeni;
- Izinga lomoya;
- Ukusetshenziswa kwenhlabathi nomhlaba kanye nokungenziwa umhlaba;
- Amagugu amasiko; kanye
- nomthelela kwezenhlalakahle.

Sekwenziwe ucwaningo oluningi lwenziwa ongoti ku-EGM eminyakeni eyedlule, lokhu kuzosetshenziswa lapho kungasebenza khona kanti kungasetshenziswa okunye uma kunesidingo.

INQUBO YOKUBANDAKANYWA KOMPHEKATHI (PPP) – Ukubamba kwakho iqhaza:

Ngalokhu uyamenywa ukuba ubambe iqhaza ngokukhululeka ngokuthi uthumele noma yimiphi imibuzo noma ulwazi ocabanga ukuthi lungaba negalelo enqubweni ye-S&EIR.

Ukubandakanyeka komphakathi kuyingxenye ebalulekile kule nqubo. Kubhekana namalungelo abantu abanentshisekelo nalabo abathintekayo (I&APs) lokwaziswa ngezinto ezihlongozwayo kanye nokubandakanyeka ekuthathweni kwezinqumo ezibathintayo nabo. Kuphinde kunike i-EAP ithuba lokuhlola nokubhekana nezinkinga eziphakanyisiwe nezikhathaza labo abanentshisekelo nabathintekayo I&APs okube sekwenza sithole konke okungaba nomthelela ngenxa yomklamo ohlongozwayo.

- **Isimemo sokuBhalisa:**

Uma ufisa ukubhalisa njengomuntu onentshisekelo noma othintekayo I&AP ukuze uzokwaziswa ngalomklamo sicela ugqwalise iphephambuzo elifakwe lapha bese ulibuyisela kwabakwa-Cabanga noma ungabhalisa ku- www.cabangaenvironmental.co.za

- **Isimemo sokuthamela umhlangano womphakathi**

Ngalokhu uyaminywa ukuba uhambele umhlangano womphakathi weSigaba sokuHlaziya

Usuku: 19 kuMfumfu 2016

Isikhathi: 11:00-13:00

Indawo: Evander Rec Club, Evander

(Sicela wazi ukuthi lomhlangano uzoqhutshwa ngesiNgisi)

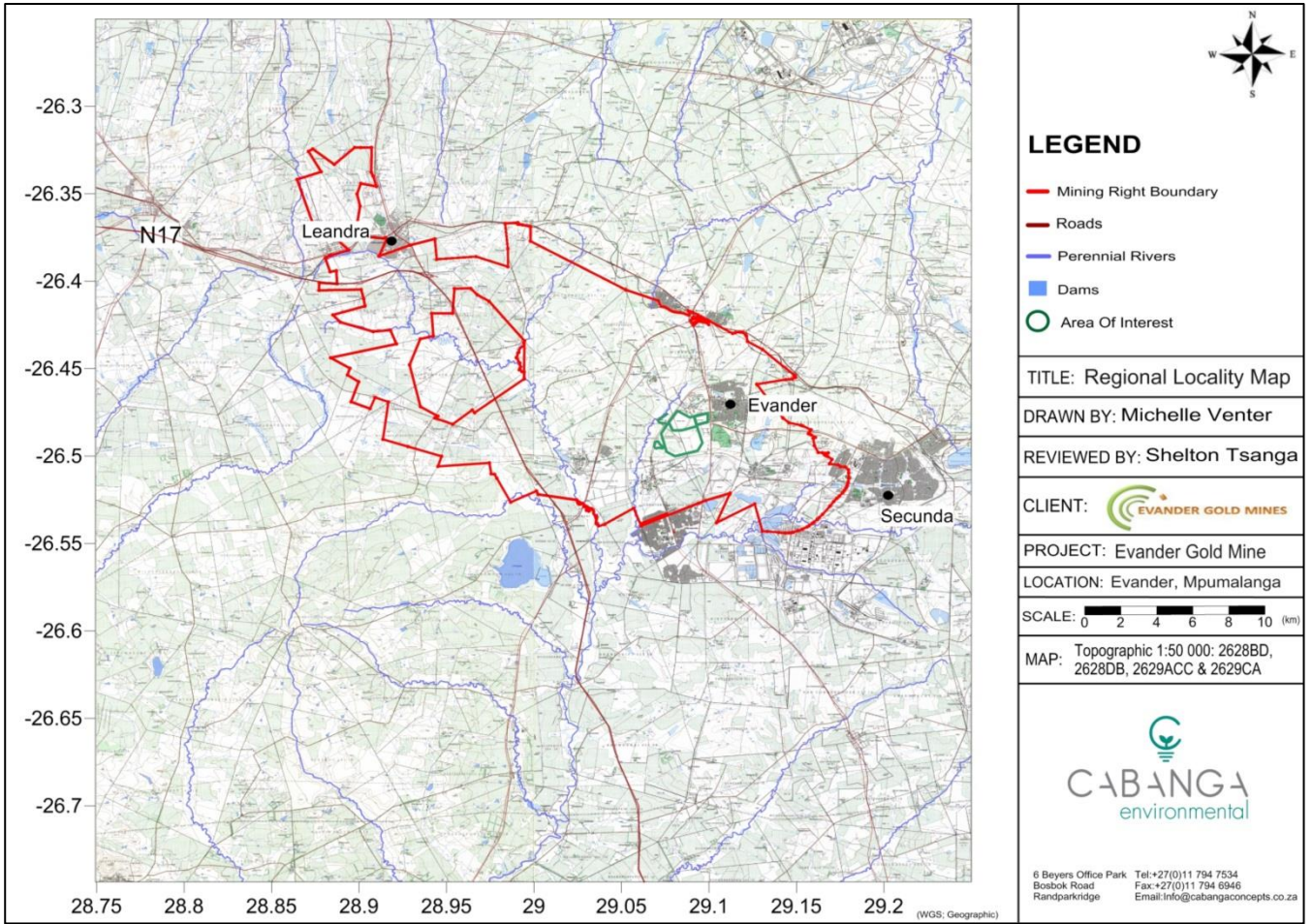
Sicela uphendule mhla noma ngaphambi komhla zi- 12 kuMfumfu 2016

- **Isimemo sokuphawula:**

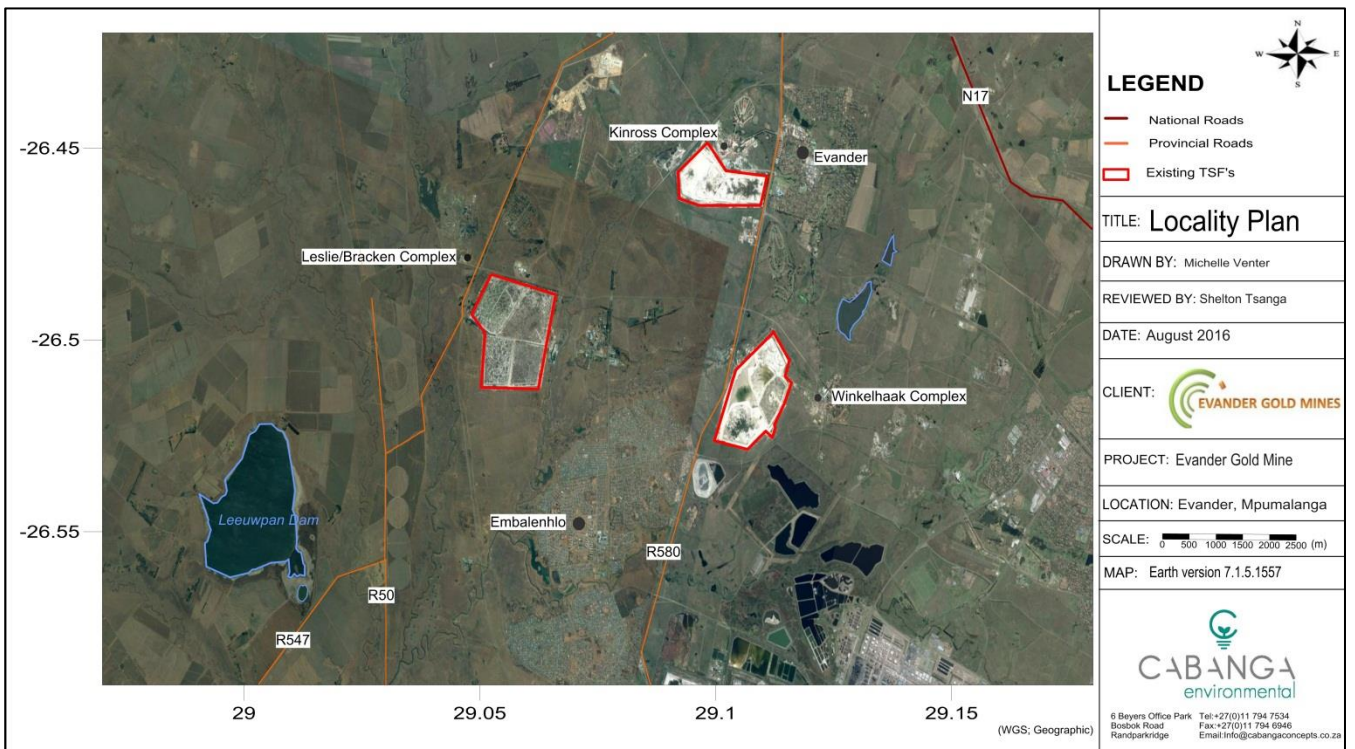
Umbiko wokuHlaziya uzotholakala ukuze umphakathi uwubuyekeze uphinde uphawule ngawo ezinsukwini ezingamashumi amathathu (30) kusukela **4 kuMfumfu 2016**. Umbiko uzotholakala kusizindalwazi www.cabangaenvironmental.co.za ngaphansi kwethebhu ebhalwe "Ukubandakanywa komphakathi"; kanye nakulezi zindawo ezilandelayo:

INDAWO:	UMUNTU OKUXHUNYWANA NAYE:	IMININGWANE YOKUXHUMANA:
Umtapowolwazi womphakathi	Agnes	017 620 6318
Emahhovisi amakhulu akwa-EGM	Boet Conradie	017 620 1634

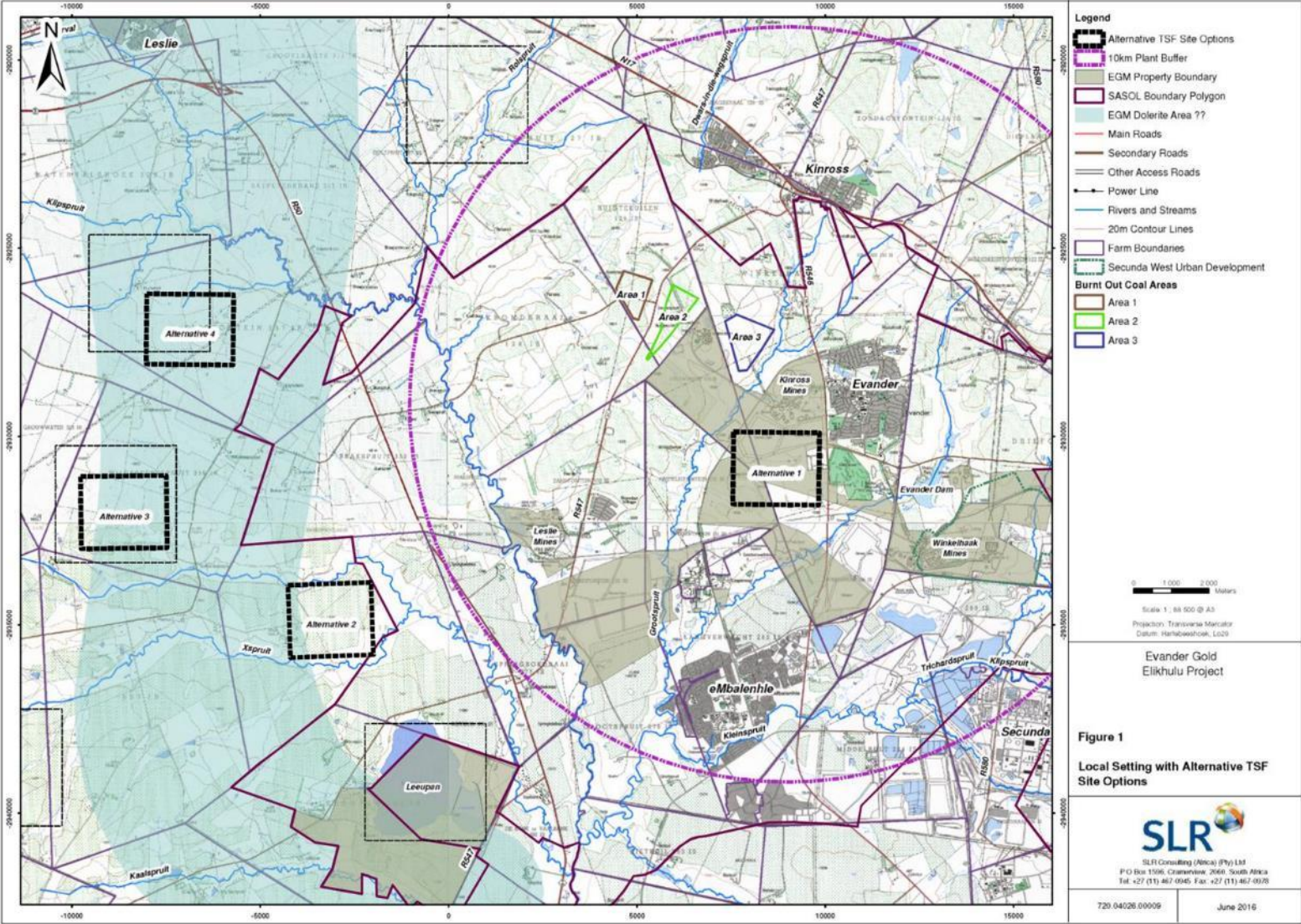
Uhlelo 1: Ibalazwe lesifunda elikhombisa yonke indawo enelungelo lokugubha imayini



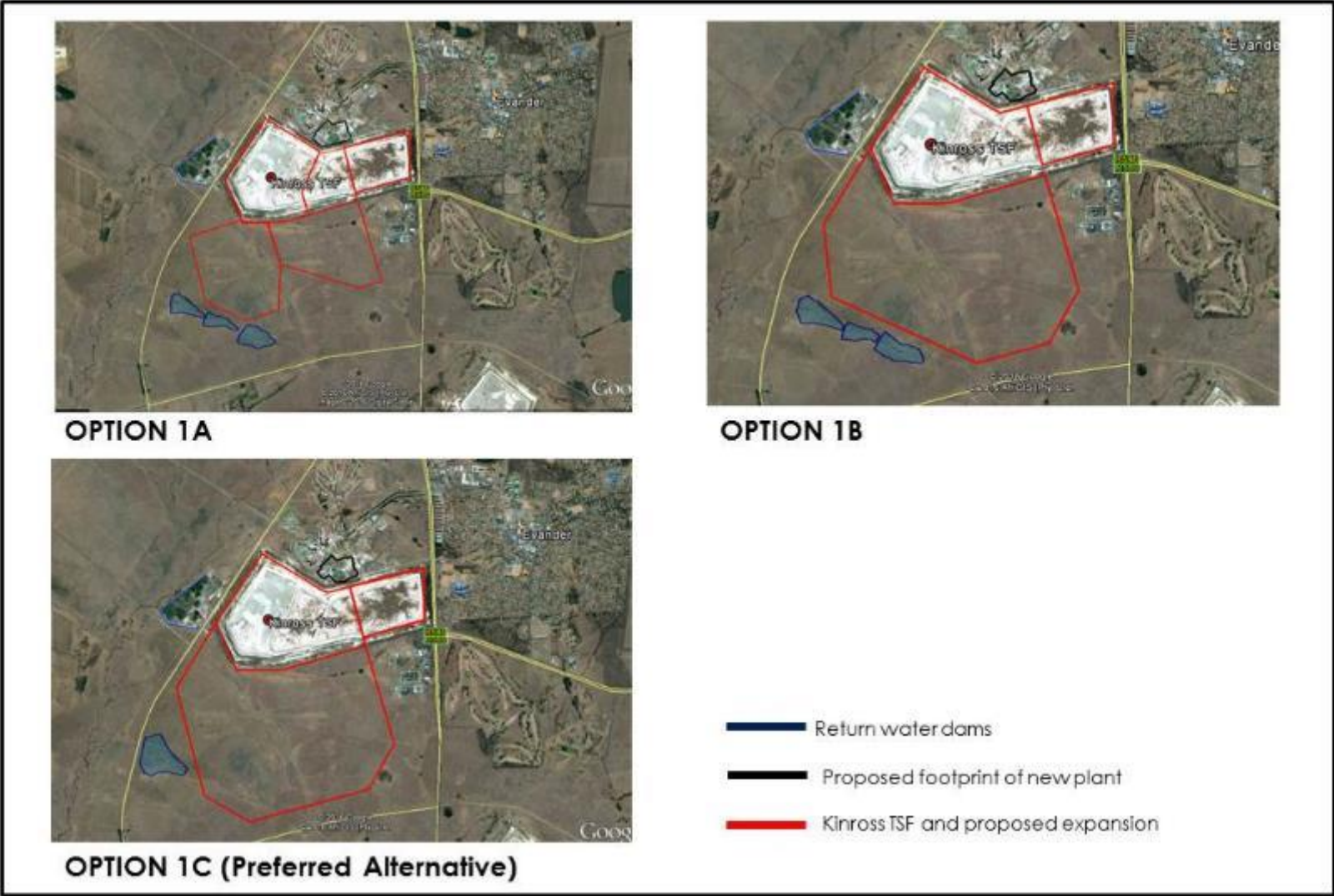
Uhlelo 2: Ibalazwe elikhombisa izindawo zengqalasizinda yemayini



Isithombe 1: Ezinye izindawo ezingasetshenziswa



Isithombe 2: Ukunwetshwa kwe-Kinross TSF, Ezinye izindlela ezoma ngayo indawo yokusebenza



IPHEPHAMBUZO LOKUBANDAKANYWA KOMPHEKATHI: IMAYINI YEGOLIDE I-EVANDER

Sicela ugcwalise bese ulibuyisa kwabakwa-Cabanga nge-imeyli kuleli kheli:

michelle@cabangaenvironmental.co.za;

Ifeksi: (011) 794 6946 noma Postnet Suite 470, P/Bag X3, Northriding, 2162

Igama:		Isibongo:	
Inombolo yocingo:		Inombolo yefeksi:	
Iposi:			
I-imeyli:			
Ungathanda ukuthi sixhumane kanjani nawe:	<input type="checkbox"/> nge-imeyli <input type="checkbox"/> ngefeksi <input type="checkbox"/> Iposi <input type="checkbox"/> ngocingo <input type="checkbox"/> SMS		
Ingabe uyathinteka noma ungumninimhlaba oseduze noma ungumsebenzisi womhlaba? Uma uthi cha, kungani unentshisekelo kulomklamo? Uma uthi yebo, sicela usho ipulazi lakho / igama lendawo kanye neminingwane yokusetshenziswa komhlaba njengamanje.	<input type="checkbox"/> Yebo <input type="checkbox"/> Cha		
Ingabe kukhona okubhekile ukukuzuzisa uma lomklamo uphumelela noma uchithwa? Uma uthi yebo, sicela wenabe.	<input type="checkbox"/> Yebo <input type="checkbox"/> Cha		
Ingabe ucabanga ukuthi lokhu okuhlongozwayo kuzoba nomthelela kuwe / esimweni senhlalo yomphakathi nomnotho? Kanjani?	<input type="checkbox"/> Yebo <input type="checkbox"/> Cha		
Ingabe kukhona okubona kuyinkinga ngalomklamo (kungaba amanzi, ukunukubezeka komoya)?			
Ingabe zikhona izindwo obona ukuthi kumele zigwemeke (kungaba amathuna, izindawo zamasiko, uhlobo lwemvelo olusengozini yokushabalala, izindawo zezemvelo ezikhethekile noma izindawo njll.)			

Ingabe unayo eminye imibuzo noma okukukhathazayo mayelana nalomklamo?	
Ingabe bakhona abanye abantu, izinhlangano noma amaqembu okumele aziswe ngalokhu? Sicela usihlinzeke ngemininingwane yokuxhumana.	<input type="checkbox"/> Yebo <input type="checkbox"/> Cha



EVANDER GOLD MINES LIMITED

Mynregverw.: MP 30/5/1/2/3/2/1/126

Aansoek kragtens WNOB, WNOB:AB en NWW vir die herprosessering van uitskot, en verwante uitbreiding van die Kinross Hoop

Augustus 2016



Postnet Suite 470
P/Sak x3
Northriding
2162

Eenheid 5 & 6 Beyers
Kantoorpark
Bosbokweg
Randparkrif
Gauteng

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Faks: +27 11 794 6946

Info@cabangaconcepts.co.za



DOEL VAN HIERDIE DOKUMENT

Om Belanghebbende en Geaffekteerde Partye (B&GPe) in te lig oor die voorgenome projek, en die verwante lisensiëringsproses.

UITNODIGING NA OPENBARE VERGADERING

Datum: 19 October 2016
Tyd: 11:00-13:00
Plek: Evander Rec Club, Evander

(Let asb daarop dat hierdie vergadering in Engels sal plaasvind)

INLEIDING:

Evander Gold Mines Bpk ("EGM") is sedert 1958 in bedryf en het 'n goedgekeurde mynreg en verslag oor 'n Omgewingsbestuursplan ("OBP") kragtens die Wet op Ontwikkeling van Minerale en Petroleumhulpbronne, Wet 28 van 2002 ("WOMPH") vir die ondergrondse myn van goud en verwante aktiwiteite.

EGM beoog 'n tweede aanleg om die bestaande Uitskothoop te herwin; en om dit teen die einde van die myn se lewensduur in een groot hoop te konsolideer.

Hierdie bedryfsveranderinge verg vooraf magtiging kragtens die Wet op Nasionale Omgewingsbestuur, Wet 107 van 1998 ("WNOB"); Wet op Nasionale Omgewingsafvalbestuur, Wet 59 van 2008 ("WNOAB") (NOB:AB"); en die Nasionale Waterwet, Wet 36 van 1998 ("NWW"). As sodanig is Cabanga aangestel as die onafhanklike Praktisyn van Omgewingsassessering ("POA") om die aansoekproses te bestuur en daaroor toesig te hou.

LIGGING:

Evander Gold Mine (Edms) Bpk ("EGM") het 'n goedgekeurde mynreg en verslag oor hul Omgewingsbestuursprogram ("OBP") vir sy bedrywighede. Die mynreg strek oor talle eiendomme in die Govan Mbeki Plaaslike Munisipaliteit van die Mpumalanga Provinsie en beslaan 31,783.07 Ha (sien Plan 1). EGM is geleë 120km oos van Johannesburg naby die dorpe Evander, Kinross en Leandra en word bedien deur die N17, R547, R546, R50 en R29.

Die totale mynreggebied val binne twee primêre opvangsgebiede, naamlik die Vaal- en die Olifants-opvangsgebied. Bopas myninfrastruktuur (insluitend aktiwiteite geassosieer met hierdie projek) val binne die C12D kwartêr-opvangsgebied van die Vaal-opvangsgebied.

Die mynreggebied val binne die Grasveldbloom, spesifiek die Soweto Hoëveldse Grasveld (Gm8) wat as kwesbaar/bedreig geklassifiseer is. Die plantegroei in die bepaalde projekarea kan grootliks as gemodifiseer bestempel word.

PROJEKBESKRYWING:

EGM kan in drie komplekse verdeel word (sien Plan 2), naamlik:

1. Winkelhaak;
2. Kinross; en
3. Leslie.

Tabel 1 hieronder som die huidige status van elk van hierdie gebiede op:

Tabel 1: Bedryfsareas

Kompleks	Winkelhaak
Skag #	1, 2, 3, 4, 5 – al die skagte is dormant. Die produksie van goud uit hierdie skagte is gestaak.
Aanlegstatus	Aanleg gesloop.
Status van uitskothoop	Ontvang uitskot van die Kinross Metallurgiese Aanleg.
Kompleks	Kinross

Skag #	#7 – aktief, word tans gebruik om erts op te hys en spleetwater uit te pomp. #8 – aktief.
Aanlegstatus	In bedryf, geleë aangrensend aan die Kinross hoop by Skag #7. Ontvang ondergrondse erts asook uitskot van die Kinross hoop vir herprosessering as deel van die Evander Uitskot-herwinningsprojek (EUHP).
Status van uitskothoop	Huidig geen storting nie. Kan egter uitskot van die EUHP ontvang.
Kompleks	Leslie
Skag #	#9 – op sorg en onderhoud. #10 – uit diens gestel en geseël.
Aanlegstatus	Aanleg gesloop.
Status van uitskothoop	Dormant.

EGM beoog 'n tweede aanleg ("die Elikhulu Aanleg"), aanliggend aan die Kinross Metallurgiese Aanleg, om die bestaande drie uitskothope te herwin teen 'n koers van 1 miljoen ton per maand. Die drie hope sal in die onderstaande volgorde herwin word:

1. Kinross;
2. Leslie; en
3. Winkelhaak.

Dienste en infrastruktuur geassosieer met die voorgenome projek, sluit in:

- **Elikhulu Aanleg:**
 - Koolstof in loog-aanleg ("KIL"), insluitend smelter wat opgerig gaan word aanliggend aan die Kinross Metallurgiese Aanleg binne die myn se versteurde voetspoorgebied.
 - Bykomende bergplek van Sianied, Chloorwaterstof en Bytmiddel is nodig. Dit sal geberg word ooreenkomstig die toepaslike Datablad vir Materiaalveiligheid ("DBMV").
- **Uitskothoop:**
 - 'n Nuwe hoop is nodig vir uitskot van die Elikhulu aanleg.
 - 'n Pyplyn met sluislepe sal onder die hoop loop om water in 'n terugleidam ("TLD") te dreineer. Die grootte van hierdie dam sal volgens GN704 van die WNA wees.
 - Die terreine van die Winkelhaak en Leslie hope sal uit diens gestel en gerehabiliteer word.
- **Retikulasie van flodder:**
 - Pomp- en pypstelsels sal gebou word om gemynde flodder na die Elikhulu aanleg te voer (teen 'n koers van ± 595 liter/sekonde). Dit sluit in die bou van

'n nuwe pompstasie by elk van die bestaande hope, asook die installasie van nuwe pypeleidings binne bestaande serwitute.

- **Waterskaffing:**

- Water vir die projek sal verkry word uit die myn se verdampingsdam, bekend as die Leeuwpandam, asook van die myn se ondergrondse werke.
- Hierdie water sal na elk van die herwinningsterreine, asook na die Elikhulu aanleg gepomp word teen 'n koers van ± 165 liter/sekonde. Nuwe pypeleidings sal geïnstalleer word, maar sal steeds binne bestaande serwitute wees.
- 'n 15,000m³ reservoir sal by die Elikhulu aanleg gebou word om toevoer na die aanleg te bewerkstellig.
- 'n Pompstasie sal by die Leeuwpandam gebou word.

- **Kragtoevoer:**

- Krag sal deur Eskom verskaf word by wyse van bestaande substasies.
- Bykomende kraglyne mag nodig wees, maar sal onder 33kV bly.

Geen veranderinge aan ondergrondse myngebiede of toegangspunte word beoog nie.

ALTERNATIEWE VIR TERREIN:

Alternatiewe plasings van die nuwe hoop word kortliks hieronder bespreek (sien Figuur 1).

- **Opsie 1 (Voorkeuralternatief):**

Ligging: Voorgenome terrein is direk aanliggend aan die bestaande Kinross hoop. Die voorstel is dat die nuwe hoop in totaal 460Ha sal wees, en uiteindelik die voetspoor van die huidige Kinross hoop sal insluit namate herwinning vorder. Drie alternatiewe vir die uitleg van die hoop word tans oorweeg, soos aangedui in Figuur 2. Opsie 1C is die voorkeuralternatief.

Huidige grondgebruik: Bestaande hoop met gedeeltelike oop, maar versteurde veld.

Die nuwe hoop en TLD sal oor twee dreineringslyne indring. Dit sal egter herlei word waar moontlik.

Voordele verbonde aan hierdie terrein sluit in korter pompafstande, met die moontlikheid dat bestaande serwitute en oorsteekpunte van pypeleidings gebruik kan word.

- **Opsie 2 (Alternatief):**

Ligging: Voorgenome terrein is wes-suidwes van Kinross.

Huidige grondgebruik: Plaasgrond.

Pypeleidings sal drie standhoudende riviere asook onvervangbare en belangrike biodiversiteitsgebiede moet oorsteek.

- **Opsie 3 (Uitgesluit):**

Ligging: Voorgenome terrein is wes van Kinross.

Huidige grondgebruik: Plaasgrond en oop veld.

'n Gedeelte van die terrein val binne 'n kritieke biodiversiteitsgebied; en 'n aantal vleie en waterbronne sal geraak word deur die voorgenome hoop en verwante pypeleidings. As sodanig is Opsie 3 uitgesluit en sal nie verder oorweeg word nie.

- **Opsie 4 (Uitgesluit):**

Ligging: Voorgenome terrein is noordwes van Kinross.

Huidige grondgebruik: Plaasgrond en oop veld met woonhuise.

Die grootste gedeelte van die terrein val binne 'n kritieke biodiversiteitsgebied, en 'n aantal vleie en waterbronne sal geraak word deur die voorgenome hoop en verwante pypleidings. As sodanig is Opsie 4 uitgesluit en sal nie verder oorweeg word nie.

REGULATORIESE VEREISTES:

Die Suid-Afrikaanse reg vereis dat omgewingsmagtiging vooraf aangevra word. As deel van die aansoekproses vir omgewingsmagtiging moet die omgewings- en sosiale impak geassosieer met die aktiwiteite geassesseer word om enige moontlike negatiewe en/of positiewe gevolge te bepaal. Vervolgens moet maatreëls voorgestel word om eersgenoemde impakte te vermy of te verminder.

Kragtens die WNOB en sy OIA Regulasies (GNR 983/GNR 984/GNR 985) kan die volgende gelyste aktiwiteite van toepassing wees op die voorgenome projek. Die aansoek is dus onderhewig aan 'n volledige Bestek- en Omgewingsimpak-Assesseringsverslag ("B&OIV"):

- **GNR 983, Aktiwiteit 9:** Die ontwikkeling van infrastruktuur van meer as 1 km vir die vervoer van water of stormwater met 'n interne deursnee >36cm; of met 'n toevoer >120 liter/sekonde.
- **GNR 983, Aktiwiteit 10:** Die ontwikkeling van infrastruktuur van meer as 1 km vir die vervoer van gebruikswater, afvalwater, terugleiwat, of slyk met 'n interne deursnee >36cm; of met 'n toevoer >120 liter/sekonde.
- **GNR 983, Aktiwiteit 12:** Die ontwikkeling van infrastruktuur met 'n voetspoor >100m² waar sodanige ontwikkeling binne 'n waterloop plaasvind.
- **GNR 983, Aktiwiteit 13:** Buitestroom-berging van water, insluitend damme en reservoirs met 'n gekombineerde kapasiteit >50,000m³.
- **GNR 983, Aktiwiteit 19:** Die invul of storting van enige materiaal >5m³, of die strooi, verwydering of verskuiwing van grond, sand, skulpe, skulpgruis, klippies of rots >5m³ vanaf 'n waterloop.
- **GNR 983, Aktiwiteit 30:** Enige proses of aktiwiteit geïdentifiseer kragtens die Wet op Nasionale Omgewingsbestuur: Biodiversiteit, Wet 10 van 2004.
- **GNR 983, Aktiwiteit 34:** Uitbreiding van, of veranderinge aan bestaande geriewe of enige proses of aktiwiteit waar sodanige uitbreiding of verandering 'n permit of lisensie of gewysigde permit of lisensie sal vereis kragtens nasionale of provinsiale wetgewing.
- **GNR 984, Aktiwiteit 4:** Die ontwikkeling van geriewe vir die berging en hantering van gevaarlike goedere met 'n gesamentlike kapasiteit >500m³.
- **GNR 984, Aktiwiteit 15:** Die opruiming van 'n gebied >20 Ha van inheemse plantegroei.
- **GNR 985, Aktiwiteit 2:** Die ontwikkeling van reservoirs vir grootmaat-watertoevoer van meer as 250m³.

Die volgende gelyste aktiwiteit kragtens NOB:WW se Regulasie oor Afvalaktiwiteite (GNR921) is van toepassing op die aansoek en ook onderhewig aan 'n volledige B&OIV:

- **Kategorie A, Aktiwiteit 13:** Die uitbreiding van 'n afvalbestuursaktiwiteit gelys in Kategorie A of B van hierdie skedule.
- **Kategorie A, Aktiwiteit 14:** Die uitdiensstelling van 'n fasiliteit vir 'n afvalbestuursaktiwiteit gelys in Kategorie A of B van hierdie skedule.
- **Kategorie B, Aktiwiteit 3:** Die herwinning van gevaarlike afval van meer as 1 ton per dag.
- **Kategorie B, Aktiwiteit 7:** Die wegdoening bogronds van enige hoeveelheid gevaarlike afval.
- **Kategorie B, Aktiwiteit 10:** Die konstruksie van 'n fasiliteit vir 'n afvalbestuursaktiwiteit gelys in Kategorie B van hierdie skedule (nie apart van verwante afvalbestuursaktiwiteit nie).
- **Kategorie B, Aktiwiteit 11:** Die vestiging of herwinning van 'n restevorraadhoop of restestorting as gevolg van aktiwiteite wat 'n mynreg vereis kragtens die WOMPH.

Die Departement van Minerale Hulpbronne ("DMH") is die Bevoegde Otoriteit vir mynverwante aktiwiteite kragtens sowel WNOB as NOB:WW. As sodanig sal die prosesse in een aansoek gekombineer word.

Kragtens Artikel 102 van die WOMPH moet 'n aansoek ook voorgelê word aan die Minister om die OBP/omgewingsmagtiging te wysig.

'n Aansoek sal ook gerig word aan die DWS vir 'n geïntegreerde watergebruiklisensie ("GWGLA"). Dit sal vergesel wees van 'n Geïntegreerde Water- en AfvalBestuursplan ("GWABP").

OMGEWINGSMAGTIGINGSPROSES:

Die aansoekproses sal as volg benader word:

- **Aanvangs- en Aansoekfase:**

- Vergader voor aansoek met DMH;
- Stel aansoekvorm(s) saam en lê voor aan DMH;
- Identifiseer Belanghebbende en Geaffekteerde Partye ("B&GPe");
- Stel B&GPe en betrokke insethouders in kennis van voorgename projek (sirkuleer AIDe); en
- Plaas terreinkennisgewings en advertensies.

Ons is hier

- **Bestekfase:**

- Beskou die basislynomgewing op skootrekenaarvlak en identifiseer potensiële impakte geassosieer met die projek;
- Assesseer voorlopige nadele en voordele van alternatiewe projekaspekte.
- Spesialisstudies word voorgestel waar belangrike impakte verwag word of waar voldoende inligting ontbreek;
- Bestekverslag word beskikbaar gestel vir openbare oorsig en kommentaar;
- Openbare vergadering word gehou om bykomende impakte en besorgdhede te identifiseer;
- Bestekverslag word bygewerk om alle kommentaar in te sluit voor voorlegging aan die DMH; en
- DMH keur Bestekverslag goed of vra bykomende inligting aan.

- **OIA / OBP Fase:**

- Onderneem spesialisstudies;

- Konsolideer bevindings van die onderskeie spesialisstudies, insette deur B&GPe en insethouders;
- Beoordeel potensiële impakte en stel versagtinge maatreëls voor;
- Stel moniteringsprogramme voor om te verseker dat versagtingsmaatreëls doeltreffend is;
- Maak OIA / OBP verslag beskikbaar vir openbare oorsig en kommentaar;
- Hou tweede openbare vergadering om die OIA / OBP verslag voor te lê en enige bykomende kommentaar en besorgdhede aan te teken;
- Werk OIA /OBP verslag by om alle kommentaar in te sluit voor voorlegging aan die DMH; en
- DMH aanvaar die OIA / OBP verslag of vra bykomende inligting aan.
- **Opgawe van Besluit:**
 - DMH neem 'n besluit en keur die aansoek om omgewingsmagtiging goed of af; en
 - Alle B&GPe word in kennis gestel van die uitkoms van die aansoek, en hulle reg om te appelleer.

VOORLOPIGE IMPAKTE:

Die volgende omgewingsaspekte sal in die B&OIA verslag geassesseer word:

- Topografie;
- Klimaat;
- Landelike ekologie;
- Waterekologie;
- Kenmerke van vleie;
- Oppervlakwater;
- Grondwater;
- Luggehalte;
- Grondsoorte, grondgebruik en grondvermoë;
- Kulturele erfenis; en
- Sosiale impakte.

'n Aantal spesialisstudies is in die verlede vir die OGB gedoen en sal sover moontlik gebruik en aangevul word waar nodig.

OPENBARE DEELNAMEPROSES (ODP) – U betrokkenheid:

U word hiermee genooi om vrylik deel te neem en enige vrae of inligting wat na u mening kan bydra tot die B&OIA verslag, voor te lê.

Openbare deelname is 'n noodsaaklike deel van die proses. Dit behels die reg van Belanghebbende en Geaffekteerde Partye (B&GPe) om ingelig te word aangaande voorgename aktiwiteite en om betrokke te wees in besluite wat hulle raak. Dit gee ook die POA geleentheid om kwessies en kwellings wat deur B&GPe geopper word, te beoordeel en te hanteer en sodoende al die moontlike impakte van die voorgename projek te assesseer.

- **Uitnodiging om te registreer:**

Indien u wil registreer as 'n B&GP en ingelig wil bly oor hierdie projek, vul asb die aangehegte vraelys in en stuur terug aan Cabanga, of alternatiewelik, registreer by www.cabangaenvironmental.co.za

- **Uitnodiging na Openbare Vergadering:**

U word hiermee genooi na die Openbare Vergadering van die Bestekfase:

Datum: 19 Oktober 2016

Tyd: 11:00-13:00

Plek: Evander Rec Club, Evander

(Let asb daarop dat die vergadering in Engels sal plaasvind)

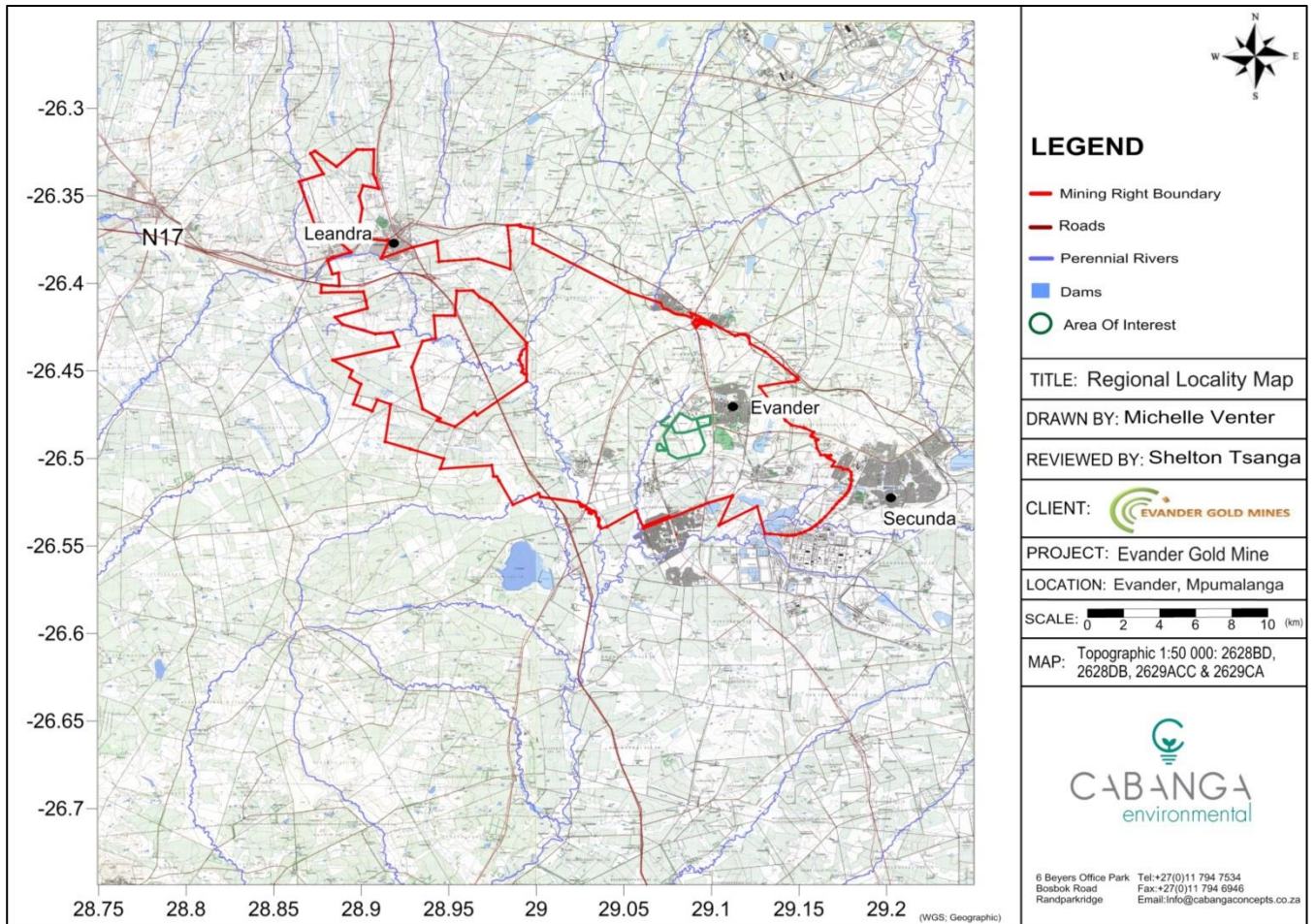
Antwoord asb voor of op 12th Oktober 2016

- **Uitnodiging om kommentaar te lewer:**

Die Bestekverslag sal beskikbaar wees vir openbare oorsig en kommentaar vir 'n tydperk van dertig (30) dae vanaf **4 Oktober 2016**. Die verslag sal op www.cabangaenvironmental.co.za wees onder die vlaggie genaamd "Public Participation"; asook op die volgende plekke:

PLEK:	KONTAKPERSOON:	KONTAKGEGEWENS:
Openbare biblioteek	Agnes	017 620 6318
EGM Hoofkantoor	Boet Conradie	017 620 1634

Plan 1: Streekskaart wat die volle mynreggebied aandui



Plan 2: Lokaliteitskaart wat die gebiede met myninfrastruktuur aandui

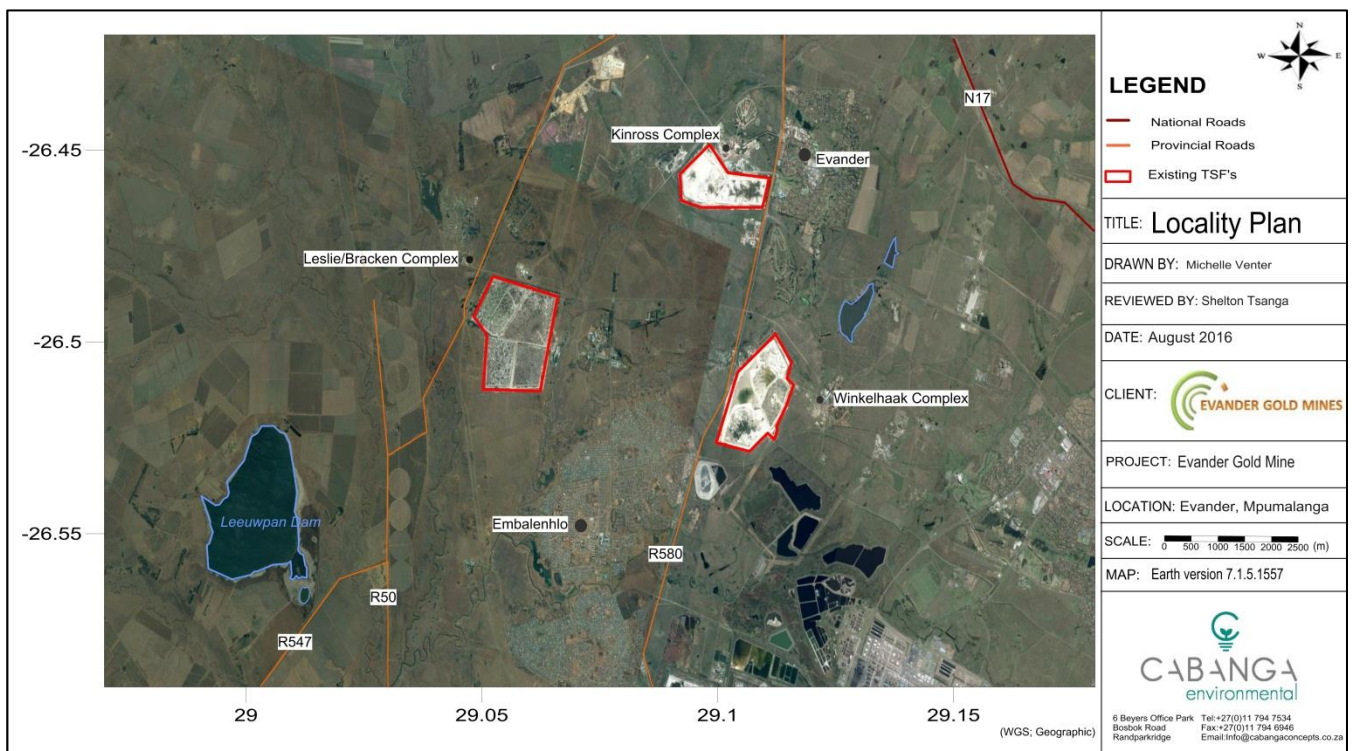


Figure 1: Alternatiewe Vir Terrein

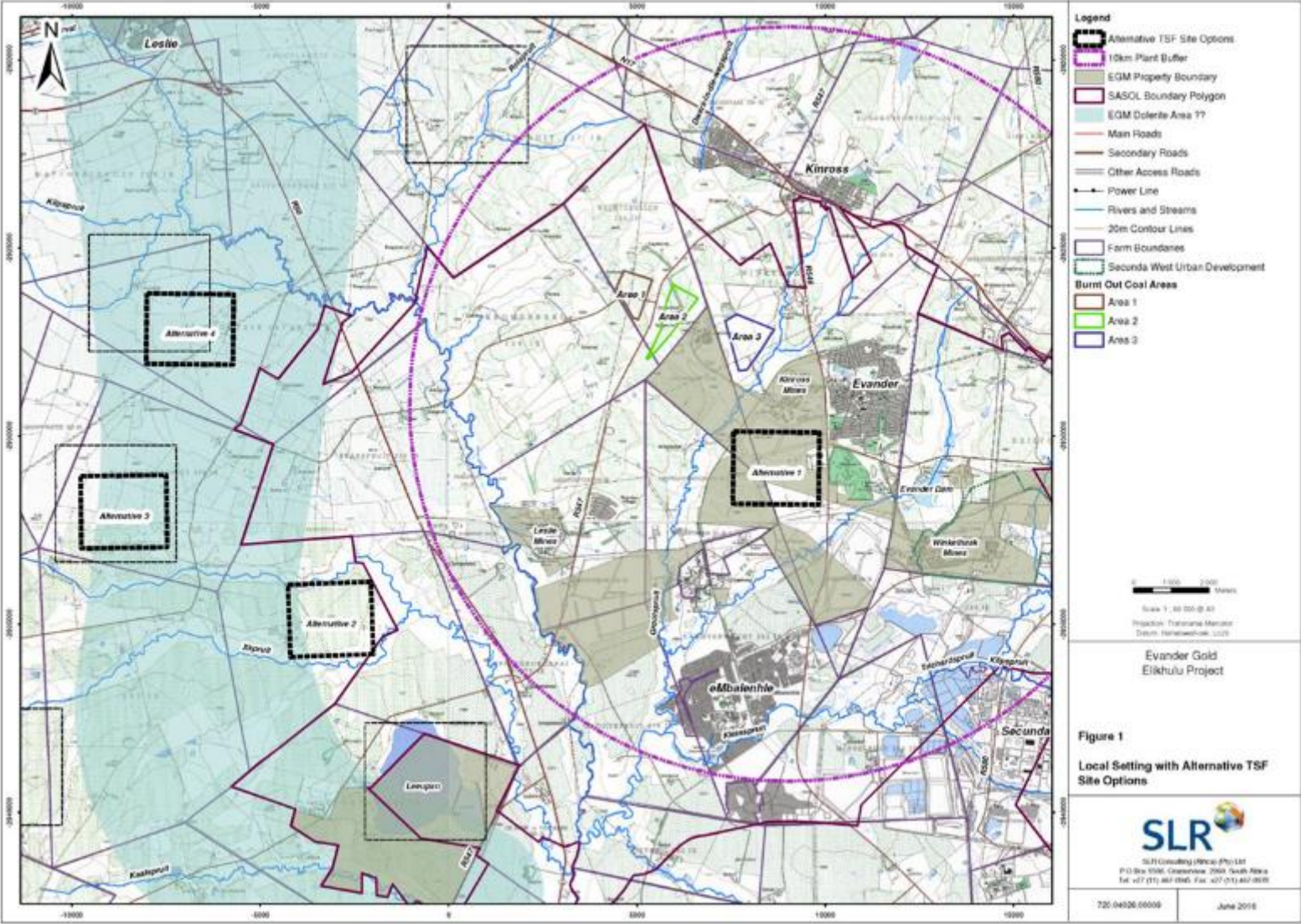
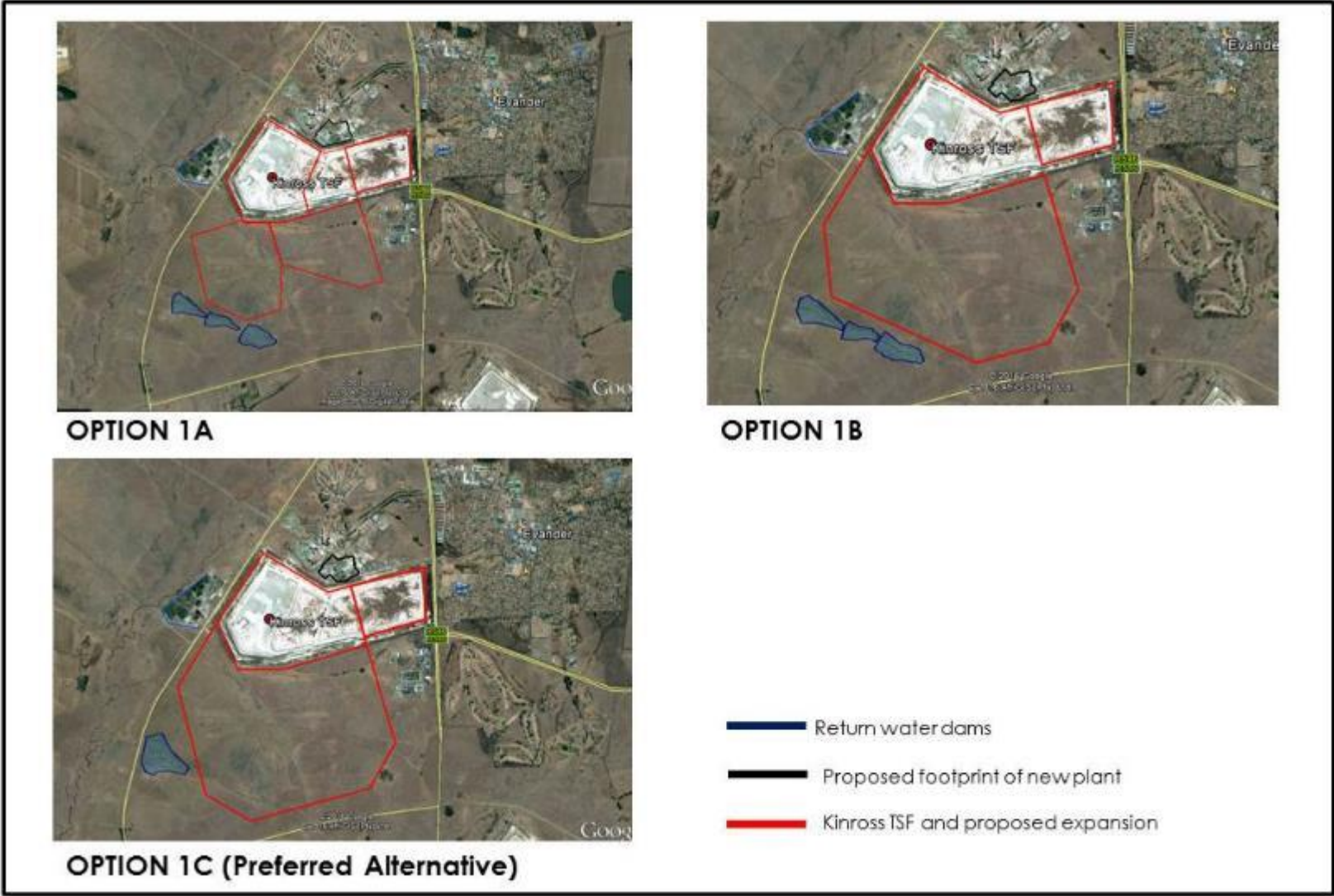


Figure 2: Kinross TSF Uitbreiding, Uitleg Alternatieuwe



VRAELYS VIR OPENBARE DEELNAME: EVANDER GOLD MINEVul asb in en stuur per e-pos terug aan Cabanga: michelle@cabangaenvironmental.co.za;

Faks: (011) 794 6946 of Postnet Suite 470, P/Sak X3, Northriding 2162

Naam:		Van:	
Telefoonno.:		Faksno.:	
Pos:			
E-pos:			
Hoe wil u graag gekontak word:	<input type="checkbox"/> E-pos <input type="checkbox"/> Faks <input type="checkbox"/> Pos <input type="checkbox"/> Telefoon <input type="checkbox"/> SMS		
Word u direk geraak of is u 'n aangrensende grondeienaar of -gebruiker? Indien nee, wat is u belang by hierdie projek? Indien ja, verstrek asb naam van u plaas/eiendom asook besonderhede van die huidige grondgebruik.	<input type="checkbox"/> Ja <input type="checkbox"/> Nee		
Het u enige gevestigde belang in die goed- of afkeur van hierdie projek? Indien ja, verstrek asb besonderhede.	<input type="checkbox"/> Ja <input type="checkbox"/> Nee		
Gaan die voorgenome aktiwiteite 'n impak op u en/of u sosio-ekonomiese omstandighede hê? Hoe?	<input type="checkbox"/> Ja <input type="checkbox"/> Nee		
Het u enige bepaalde besorgdhede oor die projek (bv. water-, lugbesoedeling?)			
Weet u van enige sensitiewe areas wat vermy moet word (bv. grafte, kulturele terreine, bedreigde spesies, spesiale omgewingskenmerke of gebiede, ens).			
Het u enige ander vrae of kwellings oor die projek?			
Weet u van enige ander mense, organisasies of partye wat in kennis gestel moet word? Verstrek asb kontakbesonderhede.	<input type="checkbox"/> Ja <input type="checkbox"/> Nee		