

CLOSURE PLAN FOR THE CLOSURE OF THE DOORNSPRUIT AND ROODEKRAALSPRUIT PROSPECTING RIGHT

Doornspruit 84 JQ and Roodekraalspruit 113 JQ

SUBMITTED FOR APPLICATION FOR A CLOSURE CERTIFICATE IN TERMS OF SECTION
43 OF THE MPRDA

JULY 2019

Name of applicant: **Royal Bafokeng Resources Platinum (Pty) Ltd /
Impala Platinum Limited Unincorporated Joint Venture**

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Report Status	For public and authority review

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REPORT REVIEWED BY: Alex Pheiffer

Unsigned draft report for review
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Unsigned draft report for review
.....

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CLOSURE PLAN FOR THE CLOSURE OF THE DOORNSPRUIT AND ROODEKRAALSPRUIT PROSPECTING RIGHT

EXECUTIVE SUMMARY

PROJECT BACKGROUND

The Royal Bafokeng Resources Platinum (Pty) Ltd / Impala Platinum Limited Unincorporated Joint Venture (RBRP/Impala JV) hold a prospecting right MPT number 497/2007 PR (DMR reference number NW 30/5/1/1/2/878 (10369) PR) for platinum group metals (PGMs), silver, gold ore, cobalt, chrome ore, copper ore, nickel ore, iron ore, vanadium ore and sulphur (in pyrite) on a portion of the farm Doornspruit 84 JQ (Doornspruit) as well as the remaining extent of the farm, portion 2, the remaining extent of portion 6, portion 8, a portion of portion 3, a portion of portion 4 and a portion of portion 5 of the farm Roodekraalspruit 113 JQ (Roodekraalspruit). The prospecting right area is located approximately 22 km north east of Rustenburg in the Rustenburg Local Municipality and the Bojanala Platinum District Municipality in the North West Province. The regional and local settings are illustrated in Figure 1 and Figure 2 respectively. The abovementioned prospecting right is included in Appendix A.

Between September 2006 and August 2014, Impala on behalf of the RBRP/Impala JV, undertook prospecting activities on the farms Doornspruit and Roodekraalspruit, during which time fourteen approved exploration drill holes were drilled.

Impala has faced tremendous economic and financial challenges throughout the last few years. The RBRP/Impala JV thus proposes to close the Doornspruit and Roodekraalspruit prospecting right.

SLR Consulting (Africa) (Pty) Ltd (SLR), an independent firm of environmental assessment practitioners (EAP), has been appointed by Impala on behalf of the RBRP/Impala JV to manage the environmental authorisation processes associated with the closure of the Doornspruit and Roodekraalspruit prospecting right.

SUMMARY OF AUTHORISATION REQUIREMENTS

Prior to the closure of the prospecting right, the following is required:

- A Closure Certificate from the DMR in terms of Section 43(4) of the MPRDA.
- An environmental authorisation from the DMR in terms of the NEMA, as amended. The Environmental Impact Assessment (EIA) Regulations being followed are Government Notice Regulation (GNR) 982 of 4 December 2014, as amended. The relevant listed activity is Activity 22 of Listing Notice 1: The decommissioning of any activity requiring a closure certificate in terms of section 43 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002).

STAKEHOLDER ENGAGEMENT

The stakeholder engagement process commenced prior to the submission of the Closure Plan Report and has continued throughout the environmental assessment process. As part of this process, commenting authorities and interested and affected parties (I&APs) were given the opportunity to review the background information document (BID) and now the Closure Plan Report, as well as the Basic Assessment Report compiled in terms of NEMA and submit questions and comments to the project team. All comments submitted to date by the commenting authorities and I&APs have been included and addressed in this Closure Plan Report. Further comments arising during the review of the Closure Plan Report will be handled in a similar manner.

This Closure Plan Report has been distributed for a 30-day comment period from **10 July 2019 to 12 August 2019** in order to provide I&APs with an opportunity to comment on any aspect of the proposed project and the findings of the closure process. Copies of the full report are available on the SLR website (at <https://slrconsulting.com/za/slr-documents/>) and hard copies are available at the Roodekraal Community Hall, Rustenburg Public Library and the Royal Bafokeng Civic Centre. Electronic copies (compact disk) of the report are available from SLR, at the contact details

provided below. Summaries of the Closure Plan Report are available in English and Setswana and have been placed at the Roodekraal Community Hall, Rustenburg Public Library and the Royal Bafokeng Civic Centre.

All comments received during the review process will be addressed in the Final Closure Plan Report that is submitted for decision-making.

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 Fax: (011) 467 0978
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IMPACTS AND MANAGEMENT ACTIONS

This section provides a summary of the assessment of the potential impacts. The potential impacts/risks have been assessed against the prospecting right closure objective which is to return any areas disturbed by prospecting activities to the pre-project state. Given that decommissioning and rehabilitation of each drill site was undertaken once drilling of each site was completed, this assessment focusses on potential residual impacts/risks as a result of the rehabilitation phase only. The assessment of the unmitigated scenario takes into account that decommissioning and rehabilitation activities have already been implemented in line with the management measures outlined in the approved prospecting EMPr, therefore the assessment of the mitigated scenario is where additional mitigation measures are deemed necessary. The table below provides a summary of the potential impacts in no particular order of importance.

Aspect	Potential impact	Reference to mitigation measures	Significance (takes into account measures implemented as per approved EMPr)	
			Unmitigated	Mitigated
Flora and Fauna	Loss of flora and fauna through lack of or poor rehabilitation	No additional mitigation or monitoring is deemed necessary.	Very Low	Not Applicable
Land-use	Loss of pre-prospecting land uses through lack of or poor rehabilitation	No additional mitigation or monitoring is deemed necessary.	Very Low	Not Applicable
Visual	Change in the visual landscape of the area	No additional mitigation or monitoring is deemed necessary.	Insignificant	Not Applicable
Socio-economic	Negative and positive socio-economic impacts	No additional mitigation or monitoring is deemed necessary.	Very Low	Not Applicable

ENVIRONMENTAL STATEMENT

The assessment of the project indicates that the potential for negative residual impacts/risks is very low to insignificant. It follows that no additional active mitigation or monitoring is required.

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ACRONYMS AND ABBREVIATIONS

Acronym / Abbreviation	Definition
BID	Background Information Document
EAP	Environmental Assessment Practitioner
EIA	Environmental Impact Assessment
EMPr	Environmental Management Programme
I&APs	Interested and Affected Parties
MPRDA	Mineral and Petroleum Resources Development Act
NEMA	National Environmental Management Act
SACNASP	South African Council for Natural Scientific Professions
SLR	SLR Consulting (Africa) (Pty) Ltd

1 INTRODUCTION

This chapter provides a brief description of the project background, describes the purpose of this report, summarises the legislative authorisation requirements, provides the study terms of reference and outlines the opportunity for comment.

1.1 PROJECT OVERVIEW

The Royal Bafokeng Resources Platinum (Pty) Ltd / Impala Platinum Limited Unincorporated Joint Venture (RBRP/Impala JV) hold a prospecting right MPT number 497/2007 PR (DMR reference number NW 30/5/1/1/2/878 (10369) PR) for platinum group metals (PGMs), silver, gold ore, cobalt, chrome ore, copper ore, nickel ore, iron ore, vanadium ore and sulphur (in pyrite) on a portion of the farm Doornspruit 84 JQ (Doornspruit) as well as the remaining extent of the farm, portion 2, the remaining extent of portion 6, portion 8, a portion of portion 3, a portion of portion 4 and a portion of portion 5 of the farm Roodekraalspruit 113 JQ (Roodekraalspruit). The prospecting right area is located approximately 22 km north east of Rustenburg in the Rustenburg Local Municipality and the Bojanala Platinum District Municipality in the North West Province. The regional and local settings are illustrated in Figure 1 and Figure 2, respectively. The abovementioned prospecting right is included in Appendix A.

Between September 2006 and August 2014, Impala on behalf of the RBRP/Impala JV undertook prospecting activities on the farms Doornspruit and Roodekraalspruit, during which time fourteen approved exploration drill holes were drilled.

Prospecting activities undertaken between September 2006 and August 2014 included:

- Use of existing roads/ tracks (as far as possible).
- Establishment and use of new access tracks where prospecting related vehicles had to deviate from existing roads.
- Drilling of fourteen approved drill holes (BH7003, BH7024, BH7605, BH7606, BH7607, BH7796, BH7798, BH7801, BH7805, BH7843, BH7852, BH7960, BH8012 and BH8107; Figure 3)
- Establishment and use of site equipment and support facilities (drill rigs, trucks, compressor, plastic lined drilling water containment facility (sump), water cart, core sample trays) and portable chemical toilets etc.

With the current economic environment and metal prices RBRP/Impala JV has decided to exit from this Prospecting Right through a closure application.

SLR Consulting (Africa) (Pty) Ltd (SLR), an independent firm of environmental assessment practitioners (EAP), has been appointed by Impala on behalf of the RBRP/Impala JV to manage the environmental authorisation processes.

1.2 PURPOSE OF THIS REPORT

This Closure Plan has been compiled and distributed for review and comment as part of the process to apply for a closure certificate in terms of Section 43 of the Mineral and Petroleum Resources Development Act, 2002 (No. 28 of 2002) (MPRDA) as amended. The closure application process is being undertaken for the closure of the Doornspruit and Roodekraalspruit Prospecting Right, near Rustenburg in the North West Province.

This Closure Plan provides a description of the proposed closure project and the affected environment; summarises the closure process followed to date; identifies and assesses the key risks associated with closing the prospecting right and presents a closure plan for the project.

Interested and Affected Parties (I&APs) are asked to comment on the Closure Plan Report (see Section below). The document will then be updated into a final report, giving due consideration to the comments received. The Closure Plan Report will be submitted to the Department of Mineral Resources for consideration as part of the closure application in terms of Section 43 of the MPRDA, as amended.

1.3 SUMMARY OF AUTHORISATION REQUIREMENTS

Prior to the closure of the proposed prospecting right, the following is required:

- A Closure Certificate from the DMR in terms of Section 43(4) of the MPRDA;
- An environmental authorisation from the DMR in terms of the NEMA, as amended. The Environmental Impact Assessment (EIA) Regulations being followed are Government Notice Regulation (GNR) 982 of 4 December 2014, as amended.

1.4 TERMS OF REFERENCE

In terms of Regulation 57, Application for a Closure Certificate, the following is required and has been included as part of this report:

- A Closure Plan contemplated in regulation 62 – This report
- An environmental risk report contemplated in regulation 60 – Section 8.2.5
- A final performance assessment report contemplated in regulation 55(9) – Section 8.2.4
- A completed application form contemplated in regulation 58(1) (Form P) – Appendix G

1.5 OPPORTUNITY TO COMMENT

This Closure Plan Report has been distributed for a 30-day comment period from **10 July 2019 to 12 August 2019** in order to provide I&APs with an opportunity to comment on any aspect of the proposed project and the findings of the closure process. Copies of the full report are available on the SLR website (at <https://slrconsulting.com/za/slr-documents/>) and hard copies are available at the Roodekraal Community Hall, Rustenburg Public Library and the Royal Bafokeng Civic Centre. Electronic copies (compact disk) of the report are available from SLR, at the contact details provided below. Summaries of the Closure Plan Report are available in English and Setswana and have been placed at the Roodekraal Community Hall, Rustenburg Public Library and the Royal Bafokeng Civic Centre.

All comments received during the review process will be addressed in the Closure Plan Report.

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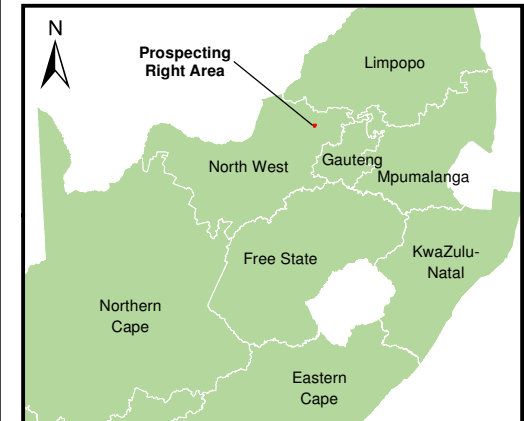
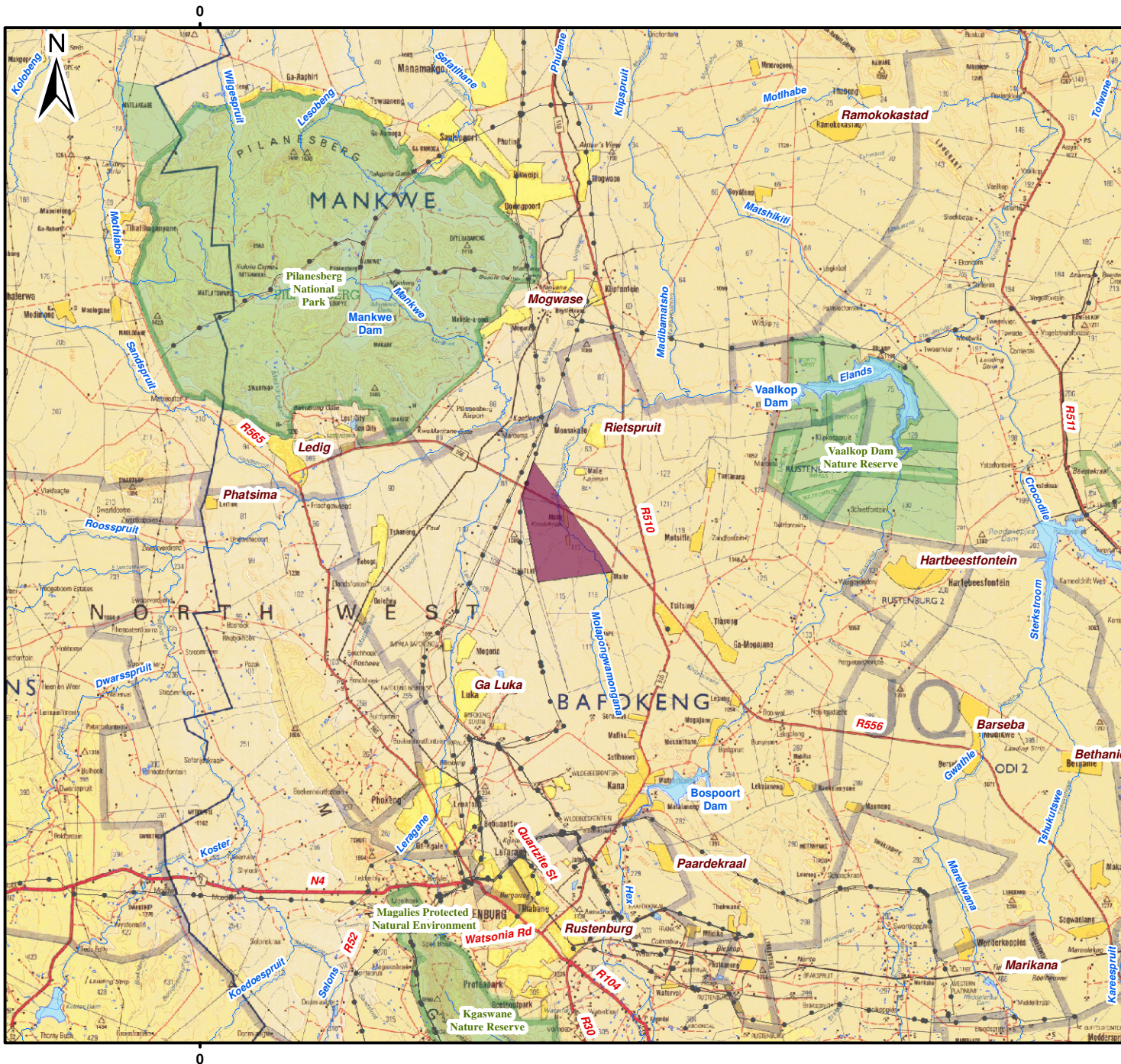
E-mail: apheiffer@slrconsulting.com or cphashe@slrconsulting.com

2 LOCATION OF APPLICATION AREA

A description of the property on which the proposed project is located is provided in Table 2-1. The regional and local settings are illustrated in Figure 1 and Figure 2, respectively. The locations of the drill holes in contained in Figure 3.

TABLE 2-1: DESCRIPTION OF THE PROPERTY

Description	Details
Farm Name	Doornspruit 84 JQ and Roodekraalspruit 113 JQ
Closure application area (ha)	2603 ha
Magisterial district	The Prospecting Right area is located within the Rustenburg Magisterial District and in the Bojanala Platinum District Municipality.
Distance and direction from nearest town	The proposed project site is located approximately 22 km north west of Rustenburg (Refer to Figure 1).
21-digit Surveyor General Code for each farm portion	Portion of the farm Doornspruit 84 JQ - B0JQ0000000008400000 Remaining extent of the farm Roodekraalspruit 113 JQ - B0JQ00000000011300000 Portion 2 of the farm Roodekraalspruit 113 JQ - B0JQ00000000011300002 The remaining extent of portion 6 of the farm Roodekraalspruit 113 JQ - B0JQ00000000011300006 Portion 8 of the farm Roodekraalspruit 113 JQ - B0JQ00000000011300008 Portion of portion 3 of the farm Roodekraalspruit 113 JQ - B0JQ00000000011300003 Portion of portion 4 of the farm Roodekraalspruit 113 JQ - B0JQ00000000011300004 Portion of portion 5 of the farm Roodekraalspruit 113 JQ - B0JQ00000000011300005
Co-ordinates (Refer to Figure 2)	North eastern corner: 27°13'44.932"E; 25°22'9.659"S South eastern corner: 27°17'0.364"E; 25°26'17.601"S South western corner: 27°13'56.367"E; 25°26'41.063"S North western corner: 27°13'17.588"E; 25°23'29.402"S



Legend

- Doornspruit and Roodekraalspruit Prospecting Right Area
- Main Roads
- Power Line
- Rivers and Streams
- 20m Contour Lines
- Protected Areas

0 5 10 15 Km
 Scale: 1:400 000 @ A4
 Projection: Transverse Mercator
 Datum: Hartebeeshoek, Lo27

Closure of the Doornspruit and Roodekraalspruit Prospecting Right

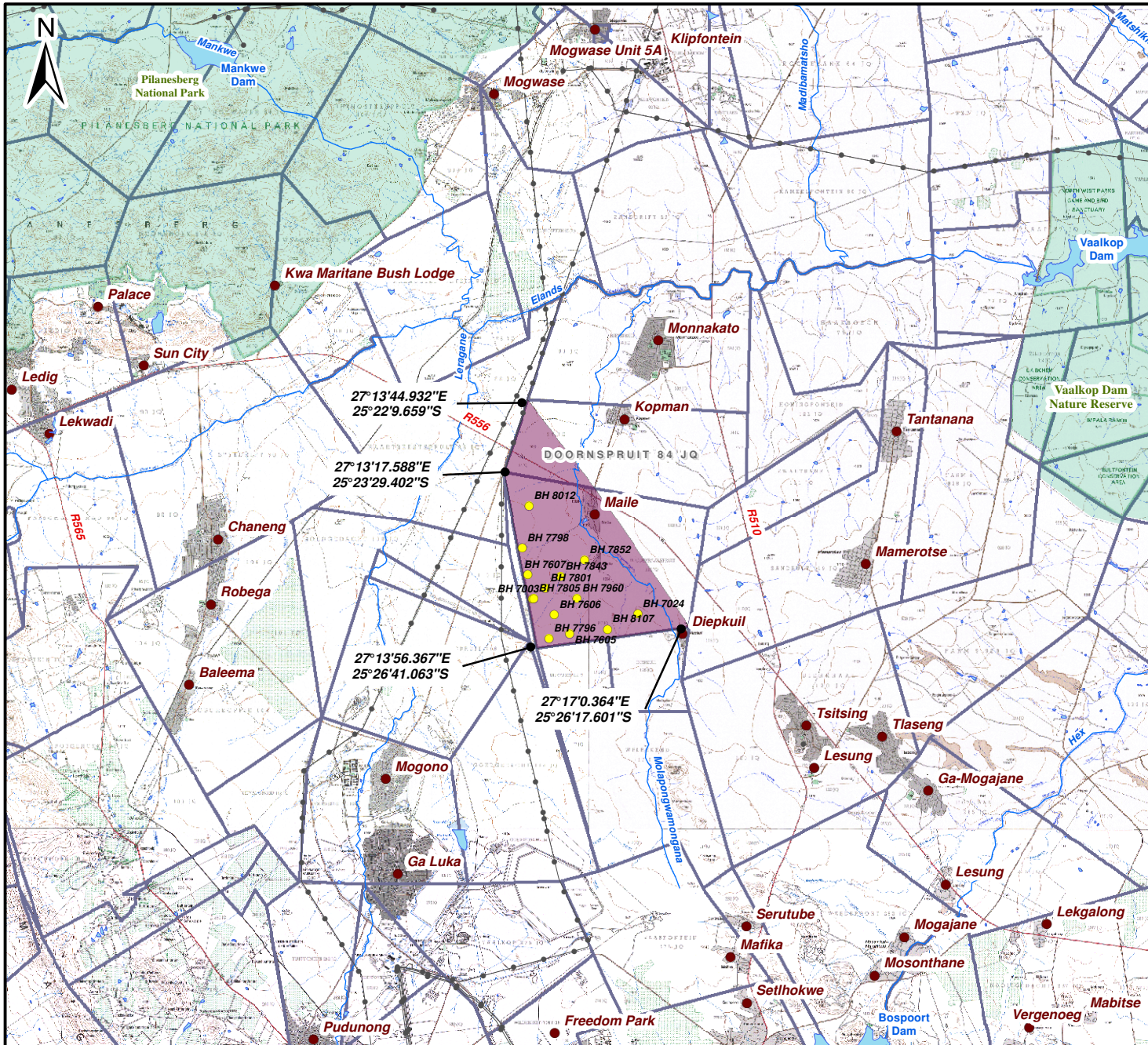
Figure 1

Regional Setting

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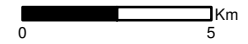
2019/05/30



Legend

- Drill Sites
- Villages / Towns
- Doornspruit and Roodekraalspruit Prospecting Right Area
- Protected Areas
- Inland Water and Dams
- Farm Boundaries
- Main Roads
- Power Line
- Rivers and Streams
- 20m Contour Lines

<u>Co-Ords for Drill Sites</u>	
BH8012	27°13'59.422"E 25°26'47.996"S
BH7798	27°14'29.17"E 25°26'47.585"S
BH7852	27°14'55.59"E 25°25'5.48"S
BH7607	27°13'47.149"E 25°25'21.331"S
BH7843	27°15'22.573"E 25°27'6.829"S
BH7801	27°14'7.921"E 25°25'37.038"S
BH7805	27°13'54.587"E 25°25'47.638"S
BH7003	27°13'52.316"E 25°25'48.931"S
BH7960	27°14'46.017"E 25°25'47.812"S
BH7606	27°14'46.585"E 25°25'48.069"S
BH7024	27°15'59.646"E 25°26'4.455"S
BH8107	27°15'23.026"E 25°26'21.291"S
BH7605	27°14'37.571"E 25°26'27.045"S
BH7796	27°14'12.291"E 25°26'32.247"S



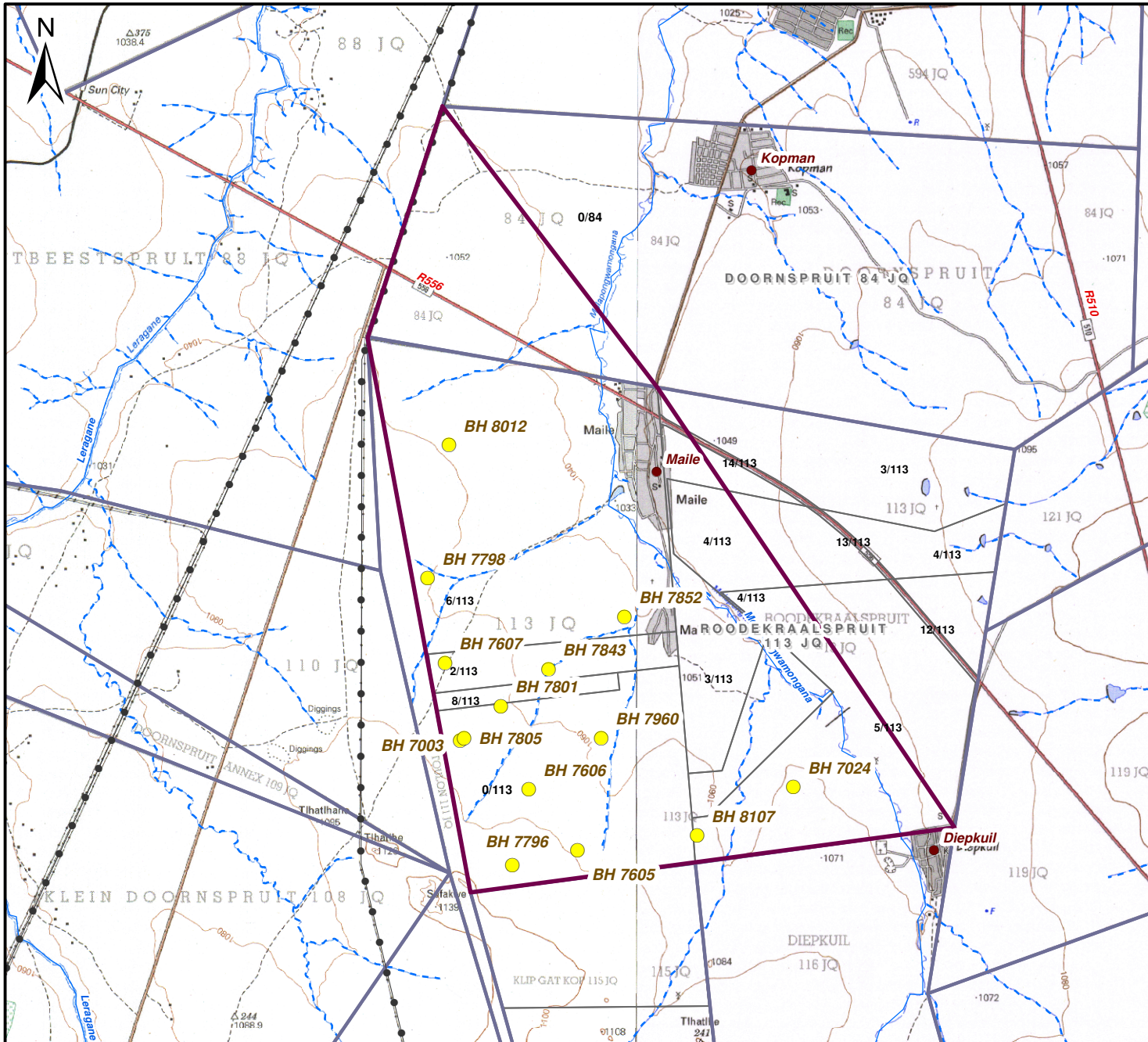
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 Projection: Transverse Mercator
 Datum: Hartbeeshoek, Lo27

Closure of the Doornspruit and Roodekraalspruit Prospecting Right

Figure 2

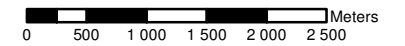
Local Setting

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Legend

- Doornspruit and Roodekraalspruit Prospecting Right Area
- Villages / Towns
- Farm Boundaries
- Farm Portions
- Powerline
- Perennial Rivers
- - - Non-Perennial Rivers
- Drill Sites



Scale: 1:63 000 @ A4
 Projection: Transverse Mercator
 Datum: Hartebeeshoek, Lo27

Closure of the Doornspruit and Roodekraalspruit Prospecting Right

Figure 3

Site Layout



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2019/05/30

3 DETAILS OF THE APPLICANT AND THE EAP

3.1 APPLICANT DETAILS

The applicant for the project is the Royal Bafokeng Resources Platinum (Pty) Ltd / Impala Platinum Limited Unincorporated Joint Venture (RBRP/Impala JV). Details are provided in Table 3-1 below. Through a resolution, Impala can sign on behalf of the RBRP/Impala JV.

TABLE 3-1: APPLICANT DETAILS

Name:	The Royal Bafokeng Resources Platinum (Pty) Ltd / Impala Platinum Limited Unincorporated Joint Venture (RBRP/Impala JV)
Address:	Impala Platinum Limited – Head Office No. 2 Fricker Road Illovo 2196
Contact No.	+27 11 731 9063
Responsible person:	Elrina Lategan

3.2 DETAILS OF THE EAP WHO PREPARED THE REPORT

As noted in Chapter 1, SLR has been appointed as the independent EAP to undertake the process for the proposed closure of the prospecting right. The details of the EAP project team that are undertaking this closure process are provided in Table 3-2.

SLR has no vested interest in the proposed project other than fair payment for consulting services rendered as part of the closure process. An undertaking by SLR is provided in Section 18.

TABLE 3-2: DETAILS OF THE BA PROJECT TEAM

General		
Organisation	SLR Consulting (Africa) (Pty) Ltd	
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Name	Tasks and roles	Email
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Stephen van Niekerk (SLR)	Financial provision reviewer	svanniekerk@slrconsulting.com
Chiara Kotze (SLR)	Management of the closure process, including public consultation, process review, specialist study review and report compilation	ckotze@slrconsulting.com
Clive Phashe (SLR)	Project assistant and public consultation	cphashe@slrconsulting.com

3.3 EXPERTISE OF THE EAP

Chiara Kotze holds an MSc degree in Ecology, Environment and Conservation and has approximately seven years of relevant experience. Alex Pheiffer holds an MSc degree in Environmental Management and is registered as a professional natural scientist (Environmental Management) with the South African Council for Natural Scientific Professions (SACNASP) (

Appendix B Appendix B). Alex Pfeiffer has over 16 years of relevant experience. Both Chiara Kotze and Alex Pfeiffer have been involved in several impact assessments for large scale mining developments in southern Africa. Clive Phashe holds a Bachelor of Science in Life and Environmental Sciences from the University of Johannesburg. Clive has over a year's experience within the environmental consulting field. Clive has assisted in a variety of mining projects since joining the company.

Relevant curricula vitae (including proof of registrations) are attached in Appendix B.

4 MOTIVATION FOR CLOSURE OF THE PROSPECTING RIGHT

Impala has faced tremendous economic and financial challenges throughout the last few years.

As a result thereof, Impala undertook a strategic review of its Impala Rustenburg Operation, and assessed the outlook going forward, particularly in response to the prevailing market conditions. The review included the Roodekraalspruit, Doornspruit, Klipgatkop and Diepkuil Joint Venture projects, adjacent to the Impala Rustenburg Operation.

To this effect a joint decision was made by the RBRP/Impala JV not to proceed with the Joint Venture. The Joint Venture project area was originally secured as certain potential future shafts (for example 18 shaft) at Impala would have exploited some of the mineral resources underlain by this Joint Venture project area. Effectively all plans to develop such new mining infrastructure have been shelved by Impala.

5 CLOSURE OBJECTIVES

The closure objective is to return land disturbed by the prospecting operations to its pre-disturbed state. In this case, the pre-disturbed state was that of:

- Open veldt with a slight slope to the northeast towards the Molapongwamongana River.
- Evidence of cattle presence and grazing on site.
- Open veld used for grazing, farming.

5.1.1 Confirmation that closure objectives have been consulted with landowners and I&APs

The intended final land use was outlined in the Background Information Document made available to landowners and I&APs for review and initial comment. The closure objective and closure plan for the prospecting right area is outlined in this report which has been made available for review and comment to landowners and I&APs (see Section 15 for further details).

Comments received from landowners and I&APs have been summarised in Section 15.5 and included in full in Appendix C of this report.

5.1.2 Regulatory requirements and conditions for closure

The regulatory requirements for closure are included in Section 15.

The conditions for closure are outlined below:

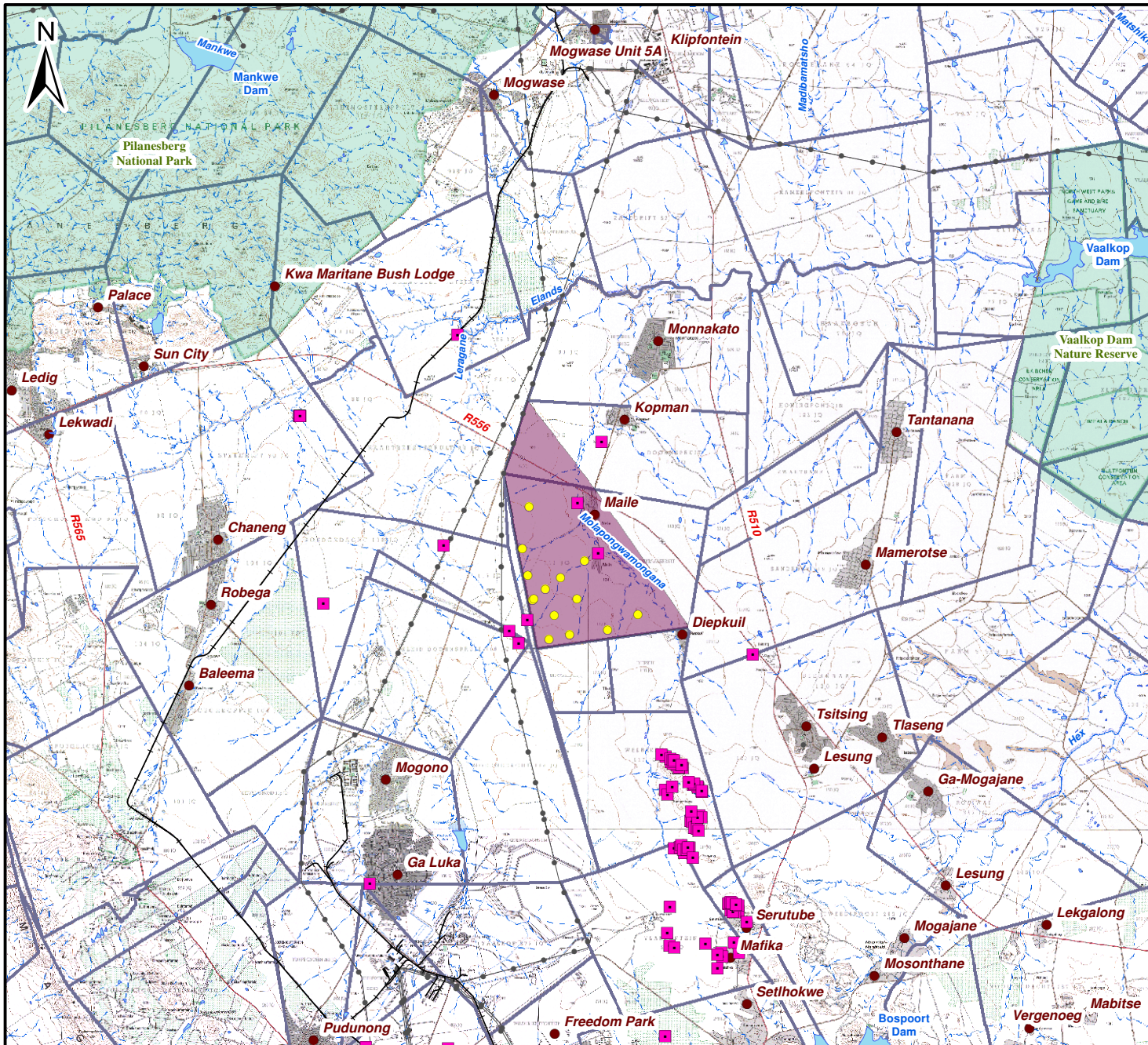
- Achieve physical stability over all landscapes disturbed by prospecting activities.
- Return land to its pre-disturbance potential.
- Maximise visual 'harmony' with the surrounding landscape.

5.1.3 Rehabilitation plan

Rehabilitation of the prospecting sites has been undertaken as outlined in Section 9 and Section 10.1. In accordance with the MPRDA Closure Plan requirements (Regulation 62b), a plan showing the area under closure including the final and future land use is presented in Figure 4.

5.1.4 Compatibility of the rehabilitation plan with the closure objectives

It can be confirmed that the rehabilitation plan is compatible with the closure objectives given that the closure objectives were taken into account during the determination of the financial provision.



Legend

- Villages / Towns
- Doornspruit and Roodekraalspruit Prospecting Right Area
- Protected Areas
- ▭ Farm Boundaries
- Main Roads
- Power Line
- 20m Contour Lines
- Railway Lines
- Perennial Rivers
- - - Non-Perennial Rivers
- Inland Water and Dams
- Heritage Sites
- Drill Sites
- Urban
- Cultivated
- Dongas and Erosion



Scale: 1:200 000 @ A4

Projection: Transverse Mercator
Datum: Hartebeeshoek, Lo27

Closure of the Doornspruit and Roodekraalspruit Prospecting Right

Figure 4

Land Use



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6 PLAN OF AREA UNDER CLOSURE

A plan showing the area under closure including the final and future land use is presented in Figure 4.

7 REGULATORY REQUIREMENTS AND CONDITIONS FOR CLOSURE

This chapter outlines the key legislative requirements applicable to the proposed project and outlines the guidelines, policies and plans that have been taken into account during the closure application process.

7.1 LEGISLATIVE CONSIDERATION IN THE PREPARATION OF THE CLOSURE REPORT

Table 7-1 below provides a summary of the applicable legislative context.

TABLE 7-1: LEGAL FRAMEWORK

Applicable legislation and guidelines used to compile the report	Reference where applied	How does this development comply with and respond to the policy and legislative context?
Mineral and Petroleum Resources Development Act (No. 28 of 2002) (MPRDA), as amended and supporting Regulations	Introduction and Table 7-4	An outline of the legislation is presented in Section 7.1. The project will require a closure certificate.
National Environmental Management Act (No. 107 of 1998) (NEMA), as amended and 2014 EIA Regulations, as amended	Section 1.3 and Section 5.1.2	An outline of the legislation is presented in Section 7.1. The project will need to comply with the principles of NEMA. The project also triggers a listed activity.
Financial Provisioning Regulations, 2015 (GN 1147)	Section 12	A Financial Provision is required in line with the NEMA Regulations and the MPRDA Closure Reporting requirements and is included in this report.
Alien Invasive Species Regulations GN 598 of 2014 in terms of the NEM:BA	Section 8.1	These regulations have been used to inform the rehabilitation of the site.
Alien and Invasive Species List, GN 864 of 2016		
National Heritage Resources Act (No 25 of 1999).		

7.1.1 Mineral and Petroleum Resources Development Act, 2002 and Regulations (No. 28 of 2002)

The Mineral and Petroleum Resources Development Act (No. 28 of 2002) (MPRDA) governs the acquisition, use and disposal of mineral and petroleum resources. Section 43 of the MPRDA governs the issuing of a closure certificate. In this regard, the holder of a prospecting right remains responsible for any environmental liability, pollution, ecological degradation, the pumping and treatment of extraneous water, compliance to the conditions of the environmental authorisation and the management and sustainable closure thereof, until the Minister has issued a closure certificate in terms of the Act to the holder of the prospecting right.

Upon the lapsing, abandonment or cancellation of the right the holder of a prospecting right must apply for a closure certificate.

No closure certificate may be issued unless:

- the Council for Geoscience has confirmed in writing that complete and correct prospecting reports in terms of Section 21(1) of the MPRDA have been submitted to the Council for Geoscience;
- the complete and correct records, drill hole core data or core-log data that the Council of Geoscience may deem relevant, have been lodged with the Council for Geoscience; or
- in the case of the holder of a permit or right, the complete and correct surface and the relevant underground geological plans have been lodged with the Council for Geoscience.

Regulation 57 of the Mineral and Petroleum Resources Development Regulations details the requirements for applying for closure certificates by a holder of a prospecting right.

In this regard a closure application must be accompanied by:

- A closure plan contemplated in Regulation 62;
- An environmental risk report contemplated in Regulation 60;
- A final performance assessment report contemplated in Regulation 55(9); and
- A completed application form contemplated in Regulation 57.

The above requirements for application for a closure certificate are addressed in the following sections of this report:

TABLE 7-2: REQUIREMENTS FOR APPLICATION FOR CLOSURE CERTIFICATE

Mineral and Petroleum Resources Development Act (No. 28 of 2002) (MPRDA), as amended	Requirement	Reference in the EMPr report
Regulation 62	Closure plan	Refer to Table 7-4
Regulation 60	Environmental risk report	Refer to Sections 8.2.1 and 8.2.5
Regulation 55(9)	Final performance assessment report	Refer to Section 8.2.4
Regulation 57	Completed application form (Form P)	Refer to Appendix G

The proposed project is for the closure of a prospecting right. Therefore, the project requires a closure certificate in terms of Section 43 of the MPRDA, and therefore an application as contemplated in Regulation 57 is required in order for the DMR to consider closure of the prospecting site. This information has been included in this report.

In addition, the regulations define the following terms:

- Residual environmental impact – means the environmental impact remaining after a closure certificate has been issued.
- Latent environmental impact – means any environmental impact that may result from natural events or disasters after a closure certificate has been issued.

7.1.2 Guidelines, Policies, Plans and Frameworks

The guidelines, policies and plans listed in Table 7-3 have been taken into account during the closure process, where applicable.

TABLE 7-3: GUIDELINE AND POLICY FRAMEWORK

Guideline	Governing body	Relevance
Public participation guideline in terms of NEMA (2017)	Department of Environmental Affairs	The purpose of this guideline is to ensure that an adequate public participation process is undertaken during the closure process.
Guideline on need and desirability (2017)		This guideline informs the consideration of the need and desirability aspects of the proposed project.
Planning for Integrated Mine Closure: toolkit; International Council on Mining and Metals.	International Council on Mining and Metals	This toolkit aims to assist in making decisions based on consideration of closure aspects in a holistic manner.
Rustenburg Local Municipality Integrated Development Plan 2018-2019	Rustenburg Local Municipality	The Rustenburg Local Municipality Integrated Development Plan is the principle strategic instrument guiding all planning, management, investment and development within the province in order to provide best solutions towards sustainable development.

Bojanala Platinum District Municipality Integrated Development Plan 2017-2022	Bojanala Platinum District Municipality	The Bojanala Platinum District Municipality Integrated Development Plan is the principle strategic instrument guiding all planning, management, investment and development within the province in order to provide best solutions towards sustainable development.
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7.2 LEGISLATIVE CLOSURE REPORT CONTENT REQUIREMENTS

This document has been prepared in accordance with the closure plan requirements of Regulation 62 of the MPRDA Regulations. Table 7-4 provides a summary of the requirements, with cross references to the report sections where these requirements have been addressed.

TABLE 7-4: CONTENTS OF THE CLOSURE PLAN

MPRDA Closure Report Requirements as per Section 62 of MPRDA Regulations	Reference in the Closure Plan
A description of the closure objectives and how these relate to the prospecting or mine operation and its environmental and social setting	Section 5
A plan contemplated in regulation 2(2), showing the land or area under closure	Section 6 Figure 4
A summary of the regulatory requirements and conditions for closure negotiated and documented in the environmental management programme or environmental management plan, as the case may be	Section 7
A summary of the results of the environmental risk report and details of identified residual and latent impacts	Section 8
A summary of the results of progressive rehabilitation undertaken	Section 9
A description of the methods to decommission each prospecting or mining component and the mitigation or management strategy proposed to avoid, minimize and manage residual or latent impacts	Section 10
Details of any long-term management and maintenance expected	Section 11
Details of a proposed closure cost and financial provision for monitoring, maintenance and post closure management	Section 12
A sketch plan drawn on an appropriate scale describing the final and future land use proposal and arrangements for the site	Section 13 Figure 4
A record of interested and affected persons consulted	Section 15
Technical appendices, if any	Section 16

8 ENVIRONMENTAL RISK ASSESSMENT AND IDENTIFIED RESIDUAL AND LATENT IMPACTS





8.1 BASELINE ENVIRONMENT AFFECTED BY THE PROPOSED ACTIVITY








Environmental attributes associated with the prospecting right area are presented in this section.

As part of verifying baseline conditions within the site, SLR undertook a site visit of the prospecting right area in April 2019. In addition, where relevant, information from available reports (see reference list included in Section 19) has been used.

It was noted during the site visit that grazing by livestock has influenced the environmental attributes of the area.

To provide a visual context of the site conditions at each drill hole, photographs reflecting the current status of the sites (taken in April 2019) are presented in Figure 5.

			
<p>BH7003 (drilled in 2006). Vegetation has successfully re-established (photo taken in 2019)</p>	<p>BH7605 (drilled in 2009). Vegetation has successfully re-established (photo taken in 2019)</p>	<p>BH7606 (drilled in 2009). Vegetation has successfully re-established (photo taken in 2019)</p>	
			
<p>BH7607 (drilled in 2009). Vegetation has successfully re-established (photo taken in 2019)</p>	<p>BH7796 (drilled in 2009). Vegetation has successfully re-established (photo taken in 2019)</p>	<p>BH7798 (drilled in 2009 and 2010). Vegetation has successfully re-established (photo taken in 2019)</p>	
 <p>SLR Consulting (Africa) Pty Ltd GLOBAL ENVIRONMENTAL SOLUTIONS</p>	<p>PHOTOGRAPHS OF DECOMMISSIONED DRILLED SITES</p>	<p>Date: June 2019</p>	<p>Scale: N.T.S</p>
		<p>Project No.</p>	<p>710.09003.00139</p>

 <p>BH7801 (drilled in 2009 and 2010). Vegetation has successfully re-established (photo taken in 2019)</p>	 <p>BH7805 (drilled in 2009). Vegetation has successfully re-established (photo taken in 2019)</p>	 <p>BH7843 (drilled in 2009 and 2010). Vegetation has successfully re-established (photo taken in 2019)</p>		
 <p>BH7852 (drilled in 2009). Vegetation has successfully re-established (photo taken in 2019)</p>	 <p>BH8012 (drilled in 2011). Vegetation has successfully re-established (photo taken in 2019)</p>	 <p>BH8107 (drilled in 2012). Vegetation has successfully re-established (photo taken in 2019)</p>		
 <p>SLR Consulting (Africa) Pty Ltd GLOBAL ENVIRONMENTAL SOLUTIONS</p>	<p>PHOTOGRAPHS OF DECOMMISSIONED DRILLED SITES</p>		<p>Date: June 2019 Project No.</p>	<p>Scale: N.T.S 710.09003.00139</p>

BH7960



BH7960 (drilled in 2013 and 2014). Vegetation has re-established to 90%, a patch that needs further re-establishment. Area around patch is re-established. The re-vegetation has likely been hampered by presence of cattle (photo taken in 2019; ±4 years and 8 months after completion).



BH7960 (drilled in 2013 and 2014): Vegetation re-establishing. Cattle indicated to be seen to use this area to sleep at night and have been seen to use the area during the day. The re-vegetation has likely been hampered by presence of cattle (photo taken January 2017; ±2 years and 4 months after completion).



BH7960 (drilled in 2013 and 2014): Cattle seen lying on this drill site and the re-vegetation has likely been hampered by presence of cattle (photo taken November 2015; ±1 year and 3 Months after completion)



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SOLUTIONS

PHOTOGRAPHS OF DECOMMISSIONED DRILLED SITES

Date: June 2019

Scale: N.T.S

Project No.

710.09003.00139

8.1.1 Geology

Geologically, the prospecting right area is located in the western Bushveld Complex.

The Bushveld Complex is vertically (or stratigraphically) subdivided into the basal Marginal Zone, Critical Zone, Middle Zone and Upper Zone. The Critical Zone contains various layers of chromitite, which are of economic interest for chrome and platinum group elements (PGE). The Critical Zone is subdivided into a Lower Group (LG1 to LG7 Chromitite Layers), Middle Group (MG1 to MG4 Chromitite Layers) and an Upper Group (UG1 to UG3 Chromitite Layers). The PGE-carrying Merensky Pyroxenite, which only contains minor chromitite stringers, is developed above the Upper Group Chromitite Layers. During prospecting, Impala targeted the Merensky and UG2 reefs in order to evaluate the potential for future exploitation of platinum group metals (PGMs). These reefs are located in the Rustenburg Layered Suite of the Critical Zone. The Merensky Reef is about 2 500 m below surface in the eastern parts of the area, with the UG2 Reef about 80 m deeper (Metago, 2008).

Given the non-invasive nature of exploration drilling (when compared to mining), the geology baseline is expected to be in its pre-project state.

8.1.2 Topography

The topography of the prospecting area is virtually flat open veldt with a slight slope to the northeast towards the Molapongwamongana River. The altitude in the project area varies from 1 100 meters above mean seal level (mamsl) to 1 040 mamsl. To the south west outside the prospecting area there are two koppies varying in altitude between 1126 mamsl and 1139 mamsl. The area is approximately 52.4 km north west of the highest peak of the Magaliesberg Range (Nooitgedacht), which is at 1853 mamsl (Metago, 2008).

In the broader area, the topography has been influenced by mining activities. The topography of the prospecting right area itself has been influenced by human and livestock activity, with evidence of erosion and compaction of soils not attributable to prospecting activities.

8.1.3 Climate

The area has a semi-arid climate, with summer rainfall (averaging 730 mm per annum over the last five years) and temperatures of more than 35°C during the day time. The winters are dry with mild temperatures and occasional frost (Impala Platinum Limited, 2019).

The prospecting area falls within the Highveld Climatic Zone 85 % of the mean annual precipitation falls during summer as thunderstorms. The thunderstorms generally occur every 3 to 4 days in summer and are of short duration and high intensity. Temperatures in this climatic zone are generally mild, but low minima can be experienced in winter due to clear night skies. Generally, winds are light, but south-westerly winds associated with thunderstorms are typically strong and gusty (Metago, 2007 *in* SLR Consulting, 2016).

Rainfall and temperature affect the rate at which vegetation can recover. In previous years, contributing factors to impacting effective re-establishment at the sites included prevailing climatic conditions (high temperatures and below average rainfall) (SLR Consulting, 2018).

8.1.4 Soils and Land capability

Much of the prospecting area is dominated by Arcadia “black turf” soils which are dark, strongly structured, usually calcareous, clayey soils.

There is no real difference between the topsoil and subsoil layers. The shrink-swell nature of the soils means that within a short time, natural mixing of horizons will take place. In profile the soils have a relatively homogenous texture and structure from the surface downwards (Metago, 2008).

8.1.5 Biodiversity

The area is located in open veldt and falls within the Savanna Biome, specifically the Zeerust Thornveld and Central Sandy Bushveld. There is the potential for red data species and protected species to occur in the area and the Central Sandy Bushveld has high conservation significance. The land on and surrounding the prospecting right is used for grazing purposes (Metago, 2008).

8.1.6 Surface water

The prospecting right area falls within the Crocodile (West) Marico Water Management Area (WMA) and is within the A22F quaternary catchment. Non-perennial tributaries cross throughout the prospecting right area and feed into the non-perennial drainage line (Molapongwamongana). Flows only occur during times of fairly high rainfall. Drainage lines are considered to be sensitive ecological environments; no drilling took place within 100m of any drainage lines (Metago, 2008).

The non-perennial drainage line ultimately feed into the Elands River. The Elands River flows in an easterly direction, across the northern part of the survey area. The Elands River ultimately feeds into the Crocodile River (Metago, 2008).

Given then non-perennial nature of watercourses, there is no third-party reliance on surface water.

8.1.7 Groundwater

The prospecting right area is underlain by two aquifers; a shallow weathered aquifers underlain by deeper fractured aquifers. The deeper fractured aquifers might show different characteristics due to potential preferred pathways along dykes and geological contacts. The groundwater levels in the shallow weathered aquifer vary between 3.7 and 19.3 mbgl with an average depth of 6.8 mbgl. The groundwater level for the deeper fractured aquifer varies between 9.3 and 48.6 mbgl with an average depth of 21.8 mbgl (SLR Consulting, 2016).

In the broader area, groundwater quality is generally marginal to poor due to elevated nitrate concentrations from surrounding mining activities. Third party water users rely on groundwater for domestic, irrigation or livestock watering. Use of groundwater for domestic purposes is generally limited because communities have access to reticulated water supply (SLR Consulting, 2016).

8.1.8 Air Quality

The surrounding ambient air quality has been influenced by neighbouring mines, household fuel combustion and vehicle tailpipe emissions. Given the extent to which vegetation has re-established at drill sites, it is not expected that dust generated from exposed soils would influence the air quality baseline.

8.1.9 Noise

The prospecting area is located in open veldt and the surrounding land is used for grazing and farming purposes and in this regard livestock, birds and human voices have been identified as the main sources of sound in the prospecting right area. In terms of the broader area, the prospecting area falls within a predominantly well-developed area due to the substantial mining activities. The R556 road between Pretoria and Sun City runs to the north and east of the prospecting area and the R510 road between Rustenburg and Thabazimbi runs to the south of the prospecting area.

8.1.10 Visual Aspects

Drilled holes are demarcated by a cement beacon and an upright standpipe and are not visible from within the community of Maile/Rooikraal/Roodekraalspruit community, although this is not expected to materially alter the visual landscape which has already been influenced by the development of the rural community, its support infrastructure (powerlines, roads etc.) and subsistence farming activities.

8.1.11 Heritage/Cultural and Palaeontological Resources

Heritage and cultural resources have been identified within the prospecting right area. There are formal and informal graves associated with the Maile/Rooikraal/Roodekraalspruit village (Metago, 2008). No drill sites were established close to these heritage sites

In the broader area there is the Thaba-ea Nape range of mountains which is part of a cultural landscape and as such a sensitive archaeological region. There are also hundreds of stone walled settlements which date from the Late Iron Age which are associated with the ancestral Tswana, particularly the Bafokeng whose descendants today still occupy numerous towns in the region (Metago, 2008).

8.1.12 Socio-economic and Current Land Uses

Landownership

Land ownership details within and immediately adjacent to the prospecting right area are provided in the table below. This section should be read with reference to Figure 4 which shows the below farms location relative to the prospecting right area.

The surface rights are mainly owned by the South African government, the Republic of Bophuthatswana and private individuals.

TABLE 8-1: LANDOWNERSHIP WITHIN AND IMMEDIATELY ADJACENT TO THE DOORNSPRUIT AND ROODEKRAALSPRUIT PROSPECTING RIGHT AREA

Portion	Landowner
Roodekraalspruit 113 JQ (Prospecting Right Area)	
Remaining extent	Private landowners – 42 listed individuals
Portion 2	Cornelis Mosito and Molife Mosito
The remaining extent of portion 6	Private landowners – 91 listed individuals
Portion 8	Jakonia Mofoeke
A portion of portion 3	Republic of South Africa
A portion of portion 4	Republic of South Africa
A portion of portion 5	Republic of South Africa
Doornspruit 84 JQ (Prospecting Right Area)	
A portion of the farm	Republic of Bophuthatswana
Klipgatkop 115 JQ	
Portion 0	Republic of South Africa
Diepkuil 116-JQ	
Portion 0	Republic of Bophuthatswana
Toulon 111 JQ	
Portion 0	Republic of Bophuthatswana
Rietspruit 83 JQ	
Portion 0	Rustenburg Local Municipality

Hartebeestspruit 88 JQ	
Portion 0	Republic of Bophuthatswana
Sandbult 119 JQ	
Portion 0	SA Bantu Trust

Land Claims

There is a known land claim from the Roodekraalspruit Tweerivier Land Claim Committee. Proof of correspondence is included in Appendix C.

Land uses

The prospecting right area covers a portion of the farm Doornspruit 84 JQ as well as the remaining extent of the farm, portion 2, the remaining extent of portion 6, portion 8, a portion of portion 3, a portion of portion 4 and a portion of portion 5 of the farm Roodekraalspruit 113 JQ. The area is rural in nature with villages scattered across the landscape. There is a village, Maile/Rooikraal/Roodekraalspruit, located within the prospecting area. Main land-uses in the broader area is a mixture of agriculture, community/ suburban, mining activities and wilderness. Socio-economically, educational levels in the broader area are relatively low with a high level of unemployment.

The prospecting drill holes have been decommissioned since 2014 and the vegetation has been re-establishing. The prospecting area is currently being used by community livestock for grazing. There has been overgrazing and proliferation of invasive species on the site, though this is not unique to the drill sites and is across the farm.

8.1.13 Description of specific environmental features and infrastructure on the site

The environmental features and infrastructure in the broader prospecting right area is described above. In summary:

- The area comprises open veldt with a slight slope to the northeast towards the Molapongwamongana River.
- Visually, the landscape has been influenced by subsistence farming activities.
- There is evidence of cattle presence and grazing on site

8.1.14 Environment and current land use map

A conceptual map showing topographical information as well as land uses on and immediately surrounding the prospecting site is provided in Figure 4

8.2 ENVIRONMENTAL IMPACTS AND RISKS

8.2.1 Risk assessment Summary

The potential impacts/risks have been assessed against the prospecting right closure objective which is to return any areas disturbed by prospecting activities to the pre-project state. Given that decommissioning and rehabilitation of each drill site was undertaken once drilling of each site was completed, this assessment focusses on potential residual impacts/risks as a result of the rehabilitation phase only. The assessment of the unmitigated scenario takes into account that decommissioning and rehabilitation activities have already been implemented in line with the management measures outlined in the approved prospecting EMPr, therefore the assessment of the mitigated scenario is where additional mitigation measures are deemed necessary. The table below provides a summary of the potential impacts in no particular order of importance. A detailed description of the risk assessment is contained in Section 8.2.5.

Aspect	Potential impact	Reference to mitigation measures	Significance (takes into account measures implemented as per approved EMPr)	
			Unmitigated	Mitigated
Flora and Fauna	Loss of flora and fauna through lack of or poor rehabilitation	No additional mitigation or monitoring is deemed necessary.	Very Low	Not Applicable
Land-use	Loss of pre-prospecting land uses through lack of or poor rehabilitation	No additional mitigation or monitoring is deemed necessary.	Very Low	Not Applicable
Visual	Change in the visual landscape of the area	No additional mitigation or monitoring is deemed necessary.	Insignificant	Not Applicable
Socio-economic	Negative and positive socio-economic impacts	No additional mitigation or monitoring is deemed necessary.	Very Low	Not Applicable

8.2.2 Assessment Criteria

Both the criteria used to assess the impacts/risks and the method of determining the significance of the impacts/risks is outlined in Appendix D.

8.2.3 Description of the process undertaken to identify impacts

Biophysical and socio-economic impacts associated with the proposed project were identified through a site visit undertaken by SLR.

As part of the public participation process, I&APs and commenting authorities (see Section 15) are being provided with opportunities to provide input into the Closure process and comment on the proposed project, including the identification of environmental and socio-economic impacts.

8.2.4 Final Prospecting EMP Performance Assessment

A final EMP performance assessment was undertaken by SLR to inform the closure of the prospecting right

A site visit was conducted on 24 April 2019. Photographs of the site were taken at the prospecting sites and the general area around the boreholes (Figure 5). This Final Prospecting EMP Performance Assessment was informed by the following:

- Previous Prospecting EMP Performance Assessments.
- Previous Impala prospecting reports.
- Review of available photographs (2013, 2015 and 2017) of the drill sites.
- Observations from walking/driving through the prospecting right area.

Based on the above, the following findings are noted for the final EMP performance assessment:

- There are currently no drilling activities taking place on site. Fourteen drill sites were completed during the prospecting period.
- During the April 2019 site visit, no clear distinction could be seen between the areas that had been drilled and the surrounding area. There was evidence of cattle across the prospecting area.
- There has been grazing and proliferation of invasive species on the site, though this is not unique to the drill sites and is across the farm. Evidence of cattle was seen on site.
- A short summary of the status of each drill site is provided below.
 - Drill sites BH7003, BH7605, BH7805, BH7843, BH7852, and BH8012: The vegetation has re-established. There is presence of invasive species. The vegetation has re-established to a satisfactory level and no additional monitoring is deemed necessary.
 - Drill site BH7024: This area could not be accessed as it was overgrown. Considering the area is overgrown and cannot be accessed, it is assumed that the vegetation has re-established well, and at

- the very least similar to the other drill sites. No additional mitigation or monitoring is deemed necessary.
- Drill sites BH7606, BH7607, BH7796, BH7798, BH7801, and BH8107: The vegetation has re-established well. Small areas around the boreholes are still not vegetated completely and have exposed soil. There is presence of invasive species. The vegetation has re-established to a satisfactory level and no additional mitigation or monitoring is deemed necessary.
 - Drill site BH7960: In the most recent Prospecting EMP Performance Assessment (SLR, February 2018) it was recommended that monitoring of the drill site be undertaken until such time as vegetation has re-established to a satisfactory level. During the most recent site visit in April 2019, there was some improvement to the re-establishment of vegetation. However, there is still a patch of land that is exposed and has not re-vegetated. In comparison to the post-drilling photograph from 2015, there has been an improvement and the exposed area has decreased. The rest of the area surrounding this exposed section is well vegetated. The 2013 pre-drilling photograph shows that the area in general was very sparse. There is presence of invasive species and evidence of cattle using this area. Impala personnel have indicated that cattle have been seen to sleep in this area at night and use the area during the day. The photographs in Figure 4 show the progression of vegetation re-establishment on site over the years and evidence of cattle using the area. While the area is not 100% re-established, further mitigation or monitoring is not deemed necessary as the over-use of this area is likely hampering the re-establishment of vegetation, and unlikely as a result of previous prospecting activities.
 - *Summary:*
 - Drill sites where additional management and monitoring is required: 0
 - Drill sites re-established to a satisfactory level: 12 (BH7003, BH7605, BH7606, BH7607, BH7796, BH7798, BH7801, BH7805, BH7843, BH7852, BH7960, BH8012, and BH8107)
 - Drill sites assumed to have re-established to a satisfactory level: 1 (BH7024)

The detailed assessment procedure is described in detail in Appendix E.

8.2.5 Detailed assessment of potential impacts

Decommissioning and rehabilitation of each drill site was undertaken once drilling of each site was completed (as outlined in Section 10.1). This assessment therefore focusses on potential residual impacts/risks as a result of the rehabilitation phase only. Potential environmental and socio-economic residual impacts/risks have been identified by SLR. The sequence in which these issues are listed are in no order of priority or importance. The criteria used to rate each impact is outlined in Appendix D.

The potential impacts/risks have been assessed against the prospecting right closure objective which is to return any areas disturbed by prospecting activities to the pre-project state. The assessment of the unmitigated scenario takes into account that decommissioning and rehabilitation activities have already been implemented in line with the management measures outlined in the approved prospecting EMP. The mitigated scenario is where additional mitigation measures are deemed necessary.

Issue: Loss of flora and fauna through lack of or poor rehabilitation

Description of impact

A lack of or poor rehabilitation at the drill sites would result in the loss of flora and fauna at the drill site. This could cause a proliferation of alien invasive species and have edging effects on surrounding areas.

Assessment of impact

Vegetation and related habitat and faunal species have been influenced to varying degrees by livestock grazing. Prospecting activities disturbed relatively small pieces of land (less than 0.04 ha per drill site). Rehabilitation activities have been undertaken at all drill sites, the sites have been cleared of waste and contaminated soils and the soils were prepared for re-vegetation. At the time of the 2019 site visit conducted, for thirteen of the drill sites (completed in/before 2012), vegetation had successfully re-established. For the remaining drill site (completed in 2014), re-vegetation was almost complete (90%) with a small patch of exposed soil. Ongoing community livestock activities e.g.

grazing and cattle sleeping in the area, has likely hampered the re-establishment of vegetation in this area (refer to Figure 4). There was also the proliferation of alien invasive species on site. This was seen throughout the broader area.

The loss of flora and fauna through a lack of or poor rehabilitation is considered to be of **VERY LOW** significance even without mitigation (see table below).

Mitigation and monitoring

No additional mitigation or monitoring is deemed necessary.

TABLE 8-2: TABLE: IMPACT/RISK SUMMARY – FLORA AND FAUNA

Issue: Loss of flora and fauna through lack of or poor rehabilitation		
Phases: Closure		
Criteria	Without Mitigation	With Mitigation
Intensity	Low change or disturbance (L)	-
Duration	Short term (L)	-
Extent	A part of the site (VL)	-
Consequence	Low	-
Probability	Conceivable (L)	-
Significance	Very Low	-
Nature of cumulative impacts	Ongoing community activities (overgrazing) within the drill site areas would contribute to cumulative impacts on the flora and fauna.	
Degree to which impact can be reversed	Over-time and with adequate rainfall and controlled livestock grazing, any potential impacts could be reversed.	
Degree to which impact may cause irreplaceable loss of resources	Very Low	
Degree to which impact can be mitigated	Possible	
Residual impacts	None expected.	

Issue: loss of pre-prospecting land uses through lack of or poor rehabilitation

Description of impact

A lack of or poor rehabilitation at the drill sites would result in the loss of pre-prospecting land uses. This could affect the livelihoods of communities who rely on the land for subsistence purposes. In addition, this could result in on-going dust emissions from exposed areas which could cause a nuisance to surrounding land uses.

Assessment of impact

Land uses in the prospecting right area include livestock grazing. Prospecting activities disturbed relatively small pieces of land (less than 0.04 ha per drill site). Rehabilitation activities have been undertaken at all drill sites, the sites have been cleared of waste and contaminated soils and the soils were prepared for re-vegetation. At all drill sites, a standpipe and/or concrete beacon marks the location of the drilled borehole. This is to allow for easy identification. At the time of the 2019 site visit, for thirteen of the drill sites (completed in/before 2012), vegetation had successfully re-established. For the remaining drill site (completed in 2014), re-vegetation was almost complete (90%) with a small patch of exposed soil. Ongoing community livestock activities e.g. grazing and cattle sleeping in the area, has likely hampered the re-establishment of vegetation in this area (refer to Figure 4). There was also the proliferation of alien invasive species on site. With the re-vegetation of the drill sites (partly or wholly), the pre-prospecting land uses on and surrounding the drill sites can continue. Where re-vegetation is still in progress, mismanagement or overuse of the area could hamper long term use of the land and result in ongoing exposed areas.

The loss of pre-prospecting land uses through a lack of or poor rehabilitation is considered to be of **VERY LOW** significance even without mitigation (see table below).

Mitigation and monitoring

No additional mitigation or monitoring is deemed necessary.

TABLE 8-3: IMPACT/RISK SUMMARY – LAND USE

Issue: Loss of pre-prospecting land use through lack of or poor rehabilitation		
Phases: Closure		
Criteria	Without Mitigation	With Mitigation
Intensity	Low change or disturbance (L)	-
Duration	Short term (L)	-
Extent	A part of the site (VL)	-
Consequence	Low	-
Probability	Conceivable (L)	-
Significance	Very Low	-
Nature of cumulative impacts	Ongoing grazing activities within the drill site areas would contribute to cumulative impacts on land uses.	
Degree to which impact can be reversed	With adequate rainfall and controlled livestock grazing, land uses could continue indefinitely.	
Degree to which impact may cause irreplaceable loss of resources	Very Low	
Degree to which impact can be mitigated	Possible	
Residual impacts	None expected.	

Issue: Change in the visual landscape of the area

Description of impact

A lack of or poor rehabilitation could alter the natural visual landscape and result in scaring.

Assessment of impact

The landscape is rural in nature and dominated by community land uses (such as livestock grazing). Rehabilitation activities have been undertaken at all drill sites, the sites were cleared of any waste or contaminated soils and the soils prepared for revegetation. At all drill sites, a standpipe and/or concrete beacon marks the location of the drilled borehole. This is to allow for easy identification. At the time of the 2019 site visit conducted, for thirteen of the drill sites (completed in/before 2012), vegetation had successfully re-established. For the remaining drill site (completed in 2014), re-vegetation was almost complete (90%) with a small patch of exposed soil. With the revegetation of the drill sites, the visual landscape would return to a pre-prospecting state. During the April 2019 site visit, prospecting drill sites were not obvious in the landscape and no visible scaring was noted.

The change in the landscape is considered to be **INSIGNIFICANT** even without mitigation (see table below).

Mitigation and monitoring

No additional mitigation or monitoring is deemed necessary.

TABLE 8-4: IMPACT/RISK SUMMARY – VISUAL LANDSCAPE

Issue: Change in the visual landscape of the area		
Phases: Closure		
Criteria	Without Mitigation	With Mitigation
Intensity	Negligible change or disturbance (VL)	-
Duration	Very short term (VL)	-
Extent	A part of the site (VL)	-
Consequence	Very Low	-
Probability	Unlikely (VL)	-
Significance	Insignificant	-
Nature of cumulative impacts	Ongoing grazing activities within the drill site areas would contribute to cumulative impacts on landscape.	
Degree to which impact can be reversed	With adequate rainfall and controlled livestock grazing, the pre-prospecting landscape could continue indefinitely.	
Degree to which impact may cause irreplaceable loss of resources	Not applicable.	
Degree to which impact can be mitigated	Not required.	
Residual impacts	None expected.	

Issue: Negative and positive socio-economic impacts

Description of impact

Closure of a prospecting right has the potential to result in both negative and positive socio-economic impacts. Where a third party applies for the mineral rights in the same area, related socio-economic impacts would occur.

Assessment of impact

Closure of the prospecting right would preclude Impala/RBRP joint venture from undertaking further prospecting activities, which would result in a loss of income for the appointed contractor. It is however assumed that a contractor in the normal course of business would find alternative contracts to continue his business. Where a contractor made use of local communities, the temporary and short-term employment opportunities would no longer exist. As the nature of prospecting activities is to determine the presence of exploitable mineral resources and is not associated with generating a revenue, social related benefits are thus not applicable. With Impala/RBRP joint venture abandoning and exiting from the prospecting project, the mineral resource becomes available for third party applications.

When considering the potential negative socio-economic impacts together with the opportunity that is created for third party applicants the overall impact is considered to be of **VERY LOW** significance even without mitigation (see table below).

Mitigation and monitoring

No additional mitigation or monitoring is deemed necessary.

TABLE 8-5: IMPACT/RISK SUMMARY – SOCIO-ECONOMIC

Issue: Change in the visual landscape of the area		
Phases: Closure		
Criteria	Without Mitigation	With Mitigation
Intensity	Negligible change or disturbance (VL)	-
Duration	Short term (L)	-

Extent	Affecting immediate neighbours (M)	-
Consequence	Low	-
Probability	Conceivable (L)	-
Significance	Very Low	-
Nature of cumulative impacts	No cumulative impacts expected.	
Degree to which impact can be reversed	With adequate communication structures negative impacts can be controlled and positive impacts can be enhanced.	
Degree to which impact may cause irreplaceable loss of resources	Not applicable.	
Degree to which impact can be mitigated	Possible.	
Residual impacts	None expected.	

9 PROGRESSIVE REHABILITATION UNDERTAKEN

Progressive rehabilitation took place as prospecting activities advanced. Rehabilitation commenced as each drill site was completed and decommissioned. Rehabilitation activities were aligned with RBRP/Impala JV's approved EMP and closure objectives, and included the activities outlined in Section 10.1.1 below.

A site visit was conducted on 24 April 2019 and it was noted that thirteen of the drill sites had vegetation re-established to a satisfactory level (BH7003, BH7024, BH7605, BH7606, BH7607, BH7796, BH7798, BH7801, BH7805, BH7843, BH7852, BH8012 and BH8107).

Drill site BH7960 showed a patch of land where vegetation has not re-established. Approximately 90% of the site was re-vegetated. The over-use of the area by cattle has likely hampered re-vegetation at this site. Figure 4 shows how the re-vegetation of the site has progressed over time as well as cattle using the area. Cattle seem to use this area to sleep on at night as well as using the area during the day. No further mitigation or monitoring is deemed necessary.

The final EMP Performance Assessment completed forms part of this submission. Further detail is included in the Final EMP Performance Assessment in Section 8.2.4.

10 METHODS TO DECOMMISSION PROSPECTING COMPONENTS AND STRATEGIES TO AVOID, MINIMIZE AND MANAGE RESIDUAL OR LATENT IMPACTS

10.1 DECOMMISSIONING AND REHABILITATION OF DISTURBED AREAS

Decommissioning and rehabilitation took place immediately after exploration work at each drill site was completed. This usually took between one and three days. Decommissioning and rehabilitation activities at each site included the following steps:

- Removal of all equipment, structures and materials;
- Removal of any waste and disposal at an appropriately permitted waste site;
- Sealing and capping of all drill holes and installation of a 0.8 x 0.8 x 0.8 m concrete block and standpipe for easy identification.
- Replacing and levelling topsoil (where removed);
- Scarifying/ripping areas where soils have been compacted; and
- Areas were left to naturally re-vegetate.

These steps were based on the regulatory requirements for rehabilitation of the prospecting sites as detailed in the approved EMPr (see Text box below for an outline of the rehabilitation commitments). It should be noted that at the time of compiling the prospecting EMP, the DMR's standard EMP format was relevant.

Rehabilitation commitments as detailed in the approved EMPr (dated 25 August 2005 and 16 November 2007 (Amendment 1):

- *The environment affected by the mining/ prospecting operations shall be rehabilitated by the holder, as far as is practicable, to its natural state or to a predetermined and agreed to standard or land use which conforms with the concept of sustainable development. The affected environment shall be maintained in a stable condition that will not be detrimental to the safety and health of humans and animals and that will not pollute the environment or lead to the degradation thereof;*
- *Any gate or fence erected by the holder which is not required by the landowner/tenant, shall be removed and the situation restored to the pre mining/ prospecting situation;*
- *Roads shall be ripped or ploughed, and if necessary, appropriately fertilised (based on a soil analysis) to ensure the regrowth of vegetation. Imported road construction materials which may hamper regrowth of vegetation must be removed and disposed of in an approved manner prior to rehabilitation.*
- *If a reasonable assessment indicates that the re-establishment of vegetation is unacceptably slow, the Regional Manager may require that the soil be analysed and any deleterious effects on the soil arising from the mining/prospecting operation, be corrected and the area be seeded with a seed mix to the Regional Manager's specification;*
- *All infrastructure, equipment, plant, temporary housing and other items used during the mining period will be removed from the site (section 44 of the MPRDA);*
- *Waste material of any description, including receptacles, scrap, rubble and tyres, will be removed entirely from the mining area and disposed of at a recognised landfill facility. It will not be permitted to be buried or burned on the site; and*
- *Final rehabilitation shall be completed within a period specified by the Regional Manager.*

10.2 STRATEGIES TO AVOID, MINIMIZE AND MANAGE RESIDUAL OR LATENT IMPACTS

The assessment of the project indicates that the potential for negative residual impacts/risks is very low to insignificant. It follows that no additional active mitigation or monitoring is required.

11 LONG-TERM MANAGEMENT AND MAINTENANCE

The assessment of the project indicates that the potential for negative residual impacts/risks is very low to insignificant. It follows that no additional active mitigation or monitoring is required.

12 PROPOSED CLOSURE COST AND FINANCIAL PROVISION

12.1 QUANTUM OF THE FINANCIAL PROVISION

Based on the final EMP performance assessment, the closure cost estimate below considers the following:

- There are currently no drilling activities taking place on site.
- Thirteen drill sites have re-established to a satisfactory level (BH7003, BH7024, BH7605, BH7606, BH7607, BH7796, BH7798, BH7801, BH7805, BH7843, BH7852, BH8012 and BH8107) and no further maintenance or aftercare activities are deemed necessary.
- The re-vegetation of drill sites BH7960 is in progress. There is still a patch of exposed soil. However, the area is used by cattle (for lying down and grazing) which has likely hampered full vegetation re-establishment. No further maintenance or aftercare activities are deemed necessary.

Given that Impala on behalf of the Impala/RBRP Joint Venture is applying to close the prospecting right and no remaining boreholes will be drilled under the prospecting right, only the current closure liability has been included in this report.

No further maintenance or aftercare activities are deemed necessary, thus the closure and rehabilitation costs are R0.00.

Impala submitted on behalf of the RBRP/Impala JV a financial guarantee of R122 000.000 (Guarantee number: G0657/402127/GLO; 28 February 2008) to the DMR for this prospecting right in 2008, which replaced the Financial Guarantee of R60 000.00 (Guarantee number: G0657/0319191/GLO) submitted to DMR in 2005. The updated final financial provision is calculated at R 0.00. Where the DMR agrees that the above is appropriate, the existing financial guarantee of R122 000.00 should be cancelled.

12.2 CONFIRMATION THAT THE FINANCIAL PROVISION WILL BE PROVIDED

An existing financial guarantee is in place. Where the DMR agrees that the above is appropriate, the existing financial guarantee of R122 000.00 should be cancelled (see Section 12.1.1 above).

13 FINAL AND FUTURE LAND USE

A plan showing the area under closure including the final and future land use is presented in Figure 4.

14 ASSUMPTIONS, UNCERTAINTIES, LIMITATIONS AND GAPS IN KNOWLEDGE

This Closure Plan relies on SLR's professional opinion which has been informed by the following:

- Previous EMP Performance Assessments;
- Previous Financial Provision reports;
- Prospecting reports;
- Photographs taken in 2013, 2015 and 2017; and
- A Site visit in 2019.

It is assumed that revegetation will be continuing where rainfall patterns continue and over grazing is controlled.

The Risk Assessment focuses on third parties only and does not assess health and safety impacts on employees and contractors because the assumption is made that these aspects are separately regulated by health and safety legislation, policies and standards, and that Impala/RBRP joint venture will adhere to these.

15 CONSULTATION RECORD

15.1 DETAILS OF THE PUBLIC PARTICIPATION PROCESS FOLLOWED

This section describes the public participation process undertaken for the Closure Plan.

15.2 PUBLIC PARTICIPATION PROCESS UNDERTAKEN TO DATE

A public participation process is being undertaken to inform the Closure Plan in accordance with the consultation requirements under the MPRDA. A record of the public participation process undertaken is outlined in Table 15-1 below. The purpose of the public participation process was to notify landowners, land users and other key stakeholders of the proposed project and to provide them with opportunity to raise any initial issues or concerns regarding the proposed project.

Supporting documentation is presented in Appendix C.

TABLE 15-1: PUBLIC PARTICIPATION PROCESS UNDERTAKEN AS PART OF THE CLOSURE PLAN

Steps	Details
DMR Pre-application meeting	<p>A pre-application meeting was held with the DMR in Klerksdorp on 10 May 2019. The purpose of the meeting was:</p> <ul style="list-style-type: none"> - To provide information pertaining to the project - To outline the motivation for the proposed closure - To provide an overview of the environmental process relevant to the project - To provide an overview of the existing status of the environment - To outline and obtain input on the potential environmental/cultural impacts - To outline and obtain input on the planned public participation process. <p>A copy of the pre-application meeting minutes is included in Appendix C.</p>
Focused Meetings	<p>Focused meetings were held with:</p> <ul style="list-style-type: none"> - The Royal Bafokeng Administration on 20 April 2019 - The Roodekraalspruit Maile community on 25 April 2019 <p>The purpose of the meetings was:</p> <ul style="list-style-type: none"> - To provide information pertaining to the project - To outline the motivation for the proposed closure - To provide an overview of the environmental process relevant to the project - To provide an overview of the existing status of the environment - To outline the potential environmental/cultural impacts - To outline and obtain input on the planned public participation process. <p>Copies of the meeting minutes are included in Appendix C.</p>
Notification of the land claims commissioner	<p>The land claims commissioner was consulted in order to verify the status of land claims on the farm Doornspruit 84 JQ and Roodekraalspruit 113 JQ. The proof of correspondence is attached in Appendix C.</p>
I&AP database	<p>A database was compiled with input from the Impala stakeholder engagement team and is updated on an on-going basis for the duration of the project. The project database identified and included landowners, land users and lawful occupiers within the prospecting right area, as well as those immediately adjacent to the projecting right area. In addition, the project database included surrounding I&APs, and regulatory authorities. All stakeholders registered on the project database received a copy of the Background Information Document (BID), and SMS notification of the proposed project and are being notified that the Closure Plan Report is available for public and regulatory authority review and comment. Landowner, land user, commenting authorities and other I&AP details were verified through a deed search and/or telephonic discussions. A copy of the project database is included in Appendix C..</p>

Steps	Details
Background Information Document (BID)	<p>A BID (in English and Setswana) was compiled by SLR and distributed to I&APs and commenting authorities registered on the project database. In addition, copies of the BID were made available at the Roodekraal Community Hall. The BID provided:</p> <ul style="list-style-type: none"> - Information about the proposed prospecting right closure. - Information about the baseline environment of the prospecting right area - Information about the environmental assessment process (Basic Assessment Process). - Information regarding possible environmental/cultural impacts. - Information on how I&APs and commenting authorities can have input into the environmental assessment process. <p>A registration and response form was attached to the BID, which provided I&APs with an opportunity to register as an I&AP and submit comments on the proposed project. Copies of the BID in English and Setswana are included in Appendix C.</p>
Site notices	<p>SLR placed laminated site notices (in English and Setswana) on the fence along the R556, along the boundary fence of the prospecting right areas as well as the Roodekraalspruit Maile village area. Photographic proof is included in Appendix C.. A map illustrating the location of the site notices is also included in Appendix C.</p>
Newspaper advertisements	<p>A block advertisement was placed in the Rustenburg Herald newspaper on 15 May 2019. A copy of the advertisement is included in Appendix C.</p>

Approximately eight written submissions were received from I&APs during the public participation process (see Appendix C).

In addition, Impala has also engaged directly with the Mofoko and Mosito families. Proof of this consultation (letter) has been included in Appendix C).

TABLE 15-2: I&APS THAT SUBMITTED WRITTEN/TELEPHONIC CORRESPONDENCE DURING THE PROCESS

State Departments and Organs of State	Traditional leadership
Natasha Higgitt (SAHRA)	Roodekraalspruit Maile Kgosana and Executive Committee
Chris Tshisevhe (DMR)	I&APs/Landowners
C. Theunissen (DWS)	Boitshepo Essau Mafoko

15.3 REVIEW OF THE CLOSURE PLAN

The Closure Plan has been made available for commenting authority and I&AP review and comment for 30 days. Summaries of the Closure Plan (in English and Setswana) have been made available to all I&APs registered on the I&AP database (via email) and hard copies of the summary document are available at the Roodekraal Community Hall, the Rustenburg Public Library and the Royal Bafokeng Civic Centre. A hard copy of the report has been made available at the Roodekraal Community Hall, the Rustenburg Public Library and the Royal Bafokeng Civic Centre. In addition, I&APs have been notified that the Closure Plan and/or summary is available for review via SMS. An electronic copy has also been made available on the SLR website.

Commenting authorities will receive an electronic copy or a hard copy of the Closure Plan.

15.4 COMPLETION OF THE CLOSURE PLAN

Following closure of the Closure Plan commenting period, all comments received will be incorporated and responded to in a Comments and Responses Report. Where required the Closure Plan will be updated to address comments received. The final report including I&AP comments will be submitted to DMR for consideration and decision-making. Registered I&APs will receive notification of the final submission to the DMR.

After the DMR has reached a decision registered I&APs will be notified of the outcome of the application, the reasons for the decision and details of the appeal process.

15.5 SUMMARY OF ISSUES RAISED BY I&APS

All written comments received have been collated and responded to in a Comments and Responses Report (see Table 15-3 below).

In summary, issues raised related mainly to:

- Wanting access to the prospecting results;
- Clarification of reasons for the closure and what happens after the prospecting right has been closed;
- Clarification of prospecting activity authorization.

TABLE 15-3: SUMMARY OF ISSUES RAISED BY I&APS

Interested and affected party	Date comment received	Issues raised	Response provided by SLR unless otherwise stated	Section and paragraph reference in this report where the issues and or responses were incorporated
Regulatory department				
Department of Mineral Resources (DMR)				
Chris Tshisevhe	16 May 2019	<p>Your e-mail and its attachment are hereby acknowledged.</p> <p>In order for this office to effectively evaluate you proposed closure of prospecting rights, you are hereby requested to complete an application form (DME 270) for a closure certificated which must be accompanied by necessary closure supporting reports.</p> <p>Should you have any query regarding the content of this e-mail kindly contact Mr Christopher Tshisevhe on 071 475 8362 as soon as possible. A copy of DME 270 has been attached for your information.</p>	The required form and the necessary supporting documents form part of this report.	Refer to Appendix C
Neo Kgokong	23 May 2019	<ol style="list-style-type: none"> 1. You do not need to apply for an EA for decommissioning, a closure certificate application and supporting documents will suffice. 2. Because of the above, you do not need to compile a BAR, but a final performance assessment report on the approved EMP is required. <p>I hope that is covered, basically the closure process is as it has been in terms of the MPRDA.</p>	<ol style="list-style-type: none"> 1. It is SLR’s understanding that the provisions of section 24F of NEMA apply. In this regard, any listed activity in listing notice 1 triggered by the project requires that a basic assessment process be followed. NEMA defines "decommissioning" as follows: "... or closure of a facility to the extent that it cannot be readily re-commissioned". Based on this, Activity 22 of Listing Notice 1 (see activity description below) is triggered as a closure certificate is required in terms of Section 43 of the MPRDA for closure of a Prospecting Right. <p><i>Activity 22 of Listing Notice 1 (GNR 983)</i> The decommissioning of any activity requiring – (i) a closure certificate in terms of section 43 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002); but excluding the decommissioning of an activity relating to the secondary processing of a –</p>	Section 1.3

Interested and affected party	Date comment received	Issues raised	Response provided by SLR unless otherwise stated	Section and paragraph reference in this report where the issues and or responses were incorporated
			<p>(a) mineral resource, including the smelting, beneficiation, reduction, refining, calcining or gasification of the mineral resource; or</p> <p>(b) petroleum resource, including the refining of gas, beneficiation, oil or petroleum products; – in which case activity 31 in this Notice applies.</p> <p>2. A final performance assessment / environmental audit was conducted and the details have been included in this report as well as the separate Basic Assessment Report submitted.</p>	Section 8.2.4
South African Heritage Resources Agency (SAHRA)				
Natasha Higgitt	15 May 2019	<p>Please note that all development applications are processed via our online portal, the South African Heritage Resources Information System (SAHRIS) found at the following link: http://sahra.org.za/sahris/. We do not accept emailed, posted, hardcopy, faxed, website links or DropBox links as official submissions.</p> <p>Please create an application on SAHRIS and upload all documents pertaining to the Environmental Authorisation Application Process. As per section 38(8) of the National Heritage Resources Act, Act 25 of 1999 (NHRA), an assessment of heritage resources must form part of the process and the assessment must comply with section 38(3) of the NHRA.</p> <p>Once all documents including all appendices are uploaded to the case application, please ensure that the status of the case is changed from DRAFT to SUBMITTED. Please ensure that all documents produced as part of the EA process are submitted as part of the application, and are submitted to SAHRA at the beginning of the Public Review periods. Once all these documents have been uploaded, I will be able to</p>	A case was opened on the SAHRIS website and the applicable documentation was uploaded.	Refer to Appendix C

Interested and affected party	Date comment received	Issues raised	Response provided by SLR unless otherwise stated	Section and paragraph reference in this report where the issues and or responses were incorporated
		issue an informed comment as per section 38(4) and 38(8) of the NHRA.		
Natasha Higgitt	10 June 2019	<p>Thank you for notifying SAHRA of the Environmental Authorisation (EA) and Closure of a Prospecting Right on Doornspruit 84 and Roodekraalspruit 113 JQ near Rustenburg, Rustenburg Local Municipality and the Bojanala Platinum District Municipality in the North West Province (NW 30/5/1/1/2/878 (10369) PR). As the proposed development is undergoing an EA Application process in terms of the National Environmental Management Act, 107 of 1998 (NEMA), NEMA Environmental Impact Assessment (EIA) Regulations for activities that trigger the Mineral and Petroleum Resources Development Act, No 28 of 2002 (MPRDA)(As amended), it is incumbent on the developer to ensure that a Heritage Impact Assessment (HIA) is done as per section 38(3) and 38(8) of the National Heritage Resources Act, Act 25 of 1999 (NHRA). This must include an archaeological component, palaeontological component and any other applicable heritage components. The HIA must be conducted as part of the EA Application in terms of NEMA and the NEMA EIA Regulations. The quickest process to follow for the archaeological component would be to contract a qualified archaeologist (see www.asapa.co.za or www.aphp.org.za to provide an Archaeological Impact Assessment (AIA). The AIA must comply with the SAHRA 2007 Minimum Standards: Archaeological and Palaeontological Component of Impact Assessments. The Minimum Standards make reference to a Letter of Recommendation for Exemption from further studies that the appointed specialist may submit, should they feel that it is appropriate.</p> <p>No further assessment of palaeontological resources is required as the development footprint is located within</p>	A Letter of Recommendation for Exemption has been provided by the heritage specialist Dr. Julius Pistorius.	Appendix F

Interested and affected party	Date comment received	Issues raised	Response provided by SLR unless otherwise stated	Section and paragraph reference in this report where the issues and or responses were incorporated
		<p>an area of insignificant sensitivity as per the SAHRIS PalaeoSensitivity map.</p> <p>Any other heritage resources as defined in section 3 of the NHRA that may be impacted, such as maritime archaeology, built structures over 60 years old, sites of cultural significance associated with oral histories, burial grounds and graves, graves of victims of conflict, and cultural landscapes or viewsapes must also be assessed.</p> <p>The draft BAR with appendices must be submitted to the SAHRIS application at the beginning of the Public Review period so that informed comments may be issued.</p>		
Department of Water and Sanitation				
C. Theunissen	17 May 2019	<p>Impala Platinum Ltd & Royal Bafokeng Resources Platinum (Pty) Ltd Unincorporated Joint Venture (Impala/RBRP Joint Venture) ptn , Doornspruit 84 JQ, re/ext of the farm, ptn 2, re/ext/ptn 6,8 p/p 3, p/p 4, p/p 5, Roodekraalspruit NW 30/5/1/1/2/878 (10369 PR)</p> <p>This office acknowledges the receipt of your documents regards to the above-mentioned on 17 May 2019 (Task T232/2019). The office responsible for this area is: Ms Sebenzile Ntshangase and can be contacted at (012) 253-1026.</p>	Not applicable	Not applicable
Royal Bafokeng Administration				
Royal Bafokeng Administration	20 April 2018 (focused meeting)	The RBA will forward the presentation and the information through to their councillors. If an additional meeting is required by either the councillors or the land claimants, SLR will make proper arrangements to accommodate these.	Not Applicable.	Not Applicable.
Roodekraalspruit Maile Kgosana and Executive Committee				
Jack Mataboge	25 April 2019 (focused meeting)	What happens after the prospecting right has been closed?	The mineral resource becomes available for third party applications.	Refer to Section 8.2.5

Interested and affected party	Date comment received	Issues raised	Response provided by SLR unless otherwise stated	Section and paragraph reference in this report where the issues and or responses were incorporated
Keorapetse Mosito	25 April 2019 (focused meeting)	What led to the abandoning of this project?	<p>Impala has faced tremendous economic and financial challenges throughout the last few years.</p> <p>As a result thereof, Impala undertook a strategic review of its Impala Rustenburg Operation, and assessed the outlook going forward, particularly in response to the prevailing market conditions. The review included the Roodekraalspruit, Doornspruit, Klipgatkop and Diepkuil Joint Venture projects, adjacent to the Impala Rustenburg Operation.</p> <p>To this effect a joint decision was made by the Impala Platinum Ltd / Royal Bafokeng Resources Platinum Unincorporated Joint Venture not to proceed with the Joint Venture. The Joint Venture project area was originally secured as certain potential future shafts (for example 18 shaft) at Impala would have exploited some of the mineral resources underlain by this Joint Venture project area. Effectively all plans to develop such new mining infrastructure have been shelved by Impala. (Response from Impala).</p>	Refer to Section 4
Keorapetse Mosito	25 April 2019 (focused meeting)	No one gave us feedback regarding what they found there. Is the information obtained by Impala during the PR surveys freely available?	<p>From the current drilling done, it appears as if the general geology will be typical to the geology of the western Bushveld Complex in the existing and surrounding shafts of Impala. Results from the drilling program to date confirmed the presence of the Merensky and UG2 Reefs within the prospecting right area. Drilling information can be obtained from the Geological Council of South Africa. (Response from Impala).</p>	Refer to Appendix C
Keorapetse Mosito	25 April 2019 (focused meeting)	Is it possible for any company to open a shaft if the depth of the resource is not an issue to them?	<p>Under the prevailing economic climate and metal prices it would be difficult for any company to open a shaft due to the depth of the reef horizons and the high temperature of the virgin rock at these depths. Refrigeration cooling would be required at a very high cost. (Response from Impala)</p>	Refer to Appendix C

Interested and affected party	Date comment received	Issues raised	Response provided by SLR unless otherwise stated	Section and paragraph reference in this report where the issues and or responses were incorporated
Boitshepo Essau Mafoko	04 June 2019 (email)	Who gave Impala the right to prospect and drill holes in our properties?	<p>A prospecting right was granted by the Department of Minerals and Energy (DME) (presently the Department of Mineral Resources) (DMR) on the 6th December 2006 to the Royal Bafokeng Resources Platinum (Pty) Ltd (51% shareholding) and Impala Platinum Ltd (49% shareholding) unincorporated joint venture (RBRP/Impala JV) for prospecting on inter alia various portions of the farm Roodekraalspruit 113 JQ; prospecting right MPT number 497/2007 PR (DMR reference number NW 30/5/1/1/2/878 (10369) PR). A copy of the prospecting right is attached in Appendix A. (Response from Impala).</p> <p>The Mafoko Family has been and continues to be registered as an I&AP and has been informed throughout the prospecting project.</p>	Refer to Appendix C
Boitshepo Essau Mafoko	04 June 2019 (email)	According to the Rehabilitation process, who accepted the Rehabilitation process on behalf of my family (Mafoko's)?	<p>The rehabilitation was done in line with the Environmental Management Programme commitments and objectives, as submitted to the DME and approved by the DMR as part of the prospecting right application.</p> <p>A Landowner Indemnity Form will need to be completed by each landowner. This will be made available to landowners at the same time that the BAR and Closure Plan Report are made available for review.</p> <p>Closure site inspections by the DMR will be required as part of the closure application process, before a closure certificate may be issued in respect of the said prospecting right in terms of the Mineral and Petroleum Resources Development Act, 2002. (Response from Impala).</p>	Refer to Appendix C
Boitshepo Essau Mafoko	04 June 2019 (email)	If Impala accept that they have wronged us, when will they reimburse the Mafoko family?	No compensation or reimbursement will be made by Impala, as Impala acted in accordance with all of its legislative obligations and responsibilities. (Response from Impala).	Refer to Appendix C

16 TECHNICAL APPENDICES

There are no technical appendices; this section is therefore not applicable.

17 CONCLUSION AND RECOMMENDATIONS

The assessment of the project indicates that the potential for negative residual impacts/risks is very low to insignificant.

Decommissioning and rehabilitation activities have already taken place in line with the management measures outlined in the approved EMPr.

It follows that no additional active mitigation or monitoring is required.

Based on the estimated rehabilitation and closure costs outlined in Section 12 the updated final financial provision is calculated at R 0.00. Where the DMR agrees that the above is appropriate, the existing financial guarantee of R122 000.00 would be cancelled.

18 UNDERTAKING

I, Chiara D'Egidio Kotze, the Environmental Assessment Practitioner responsible for compiling this report, undertake that:

- The information provided herein is correct
- Comments and inputs from stakeholders and I&APs have been included and correctly recorded in this report
- Inputs and recommendations from the specialist reports have been included where relevant
- Any information provided to I&APs and any responses to comments or inputs made is correct or was correct at that time.

Unsigned draft report for review

Signature of EAP

Unsigned draft report for review

Date

Unsigned draft report for review

Signature of commissioner of oath

Unsigned draft report for review

Date

19 REFERENCES

- Impala Platinum Limited. 2019. Final geological report for prospecting closure done at a portion of the farm Doornspruit 84 JQ and a portion of the farm Roodekraalspruit 113 JQ (PR 497/2007), for the period 1 January 2008 to 31 December 2018.
- Metago. 2007. Roodekraalspruit and Doornspruit prospecting EMP Amendment 1 -16 November 2007.
- Metago. 2008. EMP amendment for seismic activities at Impala's Rustenburg mining and prospecting operations
- SLR Consulting. 2016. Amended environmental management programme for Impala Platinum Limited to incorporate prospecting rights on the farms Doornspruit 84 JQ, Roodekraalspruit 113 JQ, Klipgatkop 115 JQ and Diepkuil 116 JQ into the Impala adjacent converted mining right.
- SLR Consulting, 2018. Doornspruit 84 JQ and Roodekraalspruit 113 JQ: Prospecting Environmental Management Plan Performance Assessment (February 2018)

APPENDIX A: EXISTING AUTHORISATIONS

APPENDIX B: EAP CURRICULUM VITAE AND REGISTRATION

APPENDIX C: STAKEHOLDER ENGAGEMENT

Undertaken by SLR

- DMR pre-application meeting minutes (including presentation).
- NEMA application, proof of application fee payment, and acknowledgement of receipt from the DMR.
- Royal Bafokeng Administration meeting minutes (including presentation).
- Roodekraalspruit Maile Traditional Council meeting minutes (including presentation).
- Correspondence with the land claims commissioner.
- Newspaper advertisement placed in the Rustenburg Herald.
- Site notice including photographic record and map illustrating the location of the site notices.
- Background Information Document (BID) and proof of distribution.
- Written/telephonic comments received from I&APs.

Undertaken directly by Impala

- Letter to the Mosito and Mafoko families on the notification of cessation of exploration projects.

APPENDIX D: RISK ASSESSMENT CRITERIA

APPENDIX E: DETAILED EMP PERFORMANCE ASSESSMENT PROCEDURE

APPENDIX F: LETTER OF RECOMMENDATION FOR EXEMPTION (PISTORIUS, 2019)

APPENDIX G: CLOSURE FORM P

RECORD OF REPORT DISTRIBUTION

Project Number:	710.09003.00139
Title:	Closure Plan for the Closure of the Doornspruit and Roodekraalspruit Prospecting Right
Report Number:	For public and authority review
Proponent:	Royal Bafokeng Resources Platinum (Pty) Ltd / Impala Platinum Limited Unincorporated Joint Venture

Name	Entity	No.	Date issued	Issuer
Mohlalisi Motshabi	Department of Rural Environment and Agricultural Development	1 Hard Copy and 1 CD	08 July 2019	C. Kotze
Lethabo Ramashala	Department of Water and Sanitation	1 Hard Copy and 1 CD	08 July 2019	C. Kotze
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Kelebogile Mekgoe	Rustenburg Local Municipality	1 Hard Copy and 1 CD	08 July 2019	C. Kotze
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Cornelius Mosito	Mosito Family	1 Hardcopy and 1 CD	08 July 2019	C. Kotze
Jaconiah Mafoko	Mofoko Family	1 Hardcopy and 1 CD	08 July 2019	C. Kotze
	Rustenburg Public Library	1 Hard Copy	08 July 2019	C. Kotze
	Royal Bafokeng Civic Centre	1 Hard Copy	08 July 2019	C. Kotze
	Roodekraal Community Hall	1 Hard Copy and 10 CDs	08 July 2019	C. Kotze
Carol Kenyon (Librarian)	SLR's offices in Johannesburg	1 Hard Copy	08 July 2019	C. Kotze

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