



## mineral resources

Department:  
Mineral Resources  
REPUBLIC OF SOUTH AFRICA

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

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### IMPORTANT NOTICE

#### Kindly note that:

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

**PLEASE STATE TYPE OF AUTHORISATIONS BEING APPLIED FOR**

APPLICATION TYPE	APPLICABLE FEE	Mark with an X where applicable
NEMA S&EIR application on its own	R10 000.00	
NEMA BAR application on its own	R2 000.00	
NEMWA S&EIR application on its own	R10 000.00	
NEMWA BAR application on its own	R2 000.00	
NEMA S&EIR application combined with NEMWA S&EIR application	R15 000.00	X
NEMA BAR application combined with NEMWA BAR application	R3 000.00	
NEMA S&EIR application combined with NEMWA BAR application	R11 000.00	

**1. CONSULTATION BASIC ASSESSMENT AND/ OR SCOPING REPORT**

This application is for a Scoping Report and EIA process for a Prospecting Right that is being applied for. The public consultation process will meet the full set of requirements as set out in Chapter 6 of the National Environmental Management Act (No 107 of 1998) - Environmental Impact Assessment Regulations, 2014. The public participation process that will be undertaken for the project has been outlined in Section 6 of this application form.

**2. DETAILS OF THE APPLICANT**

Project applicant:	<b>Kimswa Mining (Pty) Ltd</b>		
Registration no (if any):	<b>2018/299268/07</b>		
Trading name (if any):	<b>Kimswa Mining</b>		
Responsible Person, (e.g. Director, CEO, etc.):	<b>Lohan Faber</b>		
Contact person:	<b>Lohan Faber</b>		
Physical address:	<b>57 Kenilworth Road, De Beers, Kimberley, Northern Cape, 8301</b>		
Postal address:	<b>PO Box 2189, Kimberley, 8300</b>		
Postal code:	<b>8300</b>	Postal code:	<b>8300</b>
Telephone:	<b>0538320029 (WADALA)</b>	Telephone:	<b>0538320029 (WADALA)</b>
E-mail:	<b>lohanfbr@gmail.com</b>	E-mail:	<b>Roosthuizen950@gmail.com</b>

**3. ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP) INFORMATION**

EAP:	<b>ROELIEN OOSTHUIZEN</b>		
Professional affiliation/registration:	<b>Registered at IAIASA (International Association for Impact Assessment South Africa)</b>		
Contact Person, (if different from EAP):	<b>WILLIE OOSTHUIZEN</b>		
Company:	<b>WADALA MINING AND CONSULTING (PTY) LTD</b>		
Physical address:	<b>FARM OBERON, KIMBERLEY</b>		
Postal address:	<b>P.O. BOX 110823, HADISON PARK, KIMBERLEY</b>		
Postal code:	<b>8306</b>	Cell:	<b>082 870 9973</b>
Telephone:	<b>082 870 9973; 0842089088</b>	Fax:	<b>086 510 7120</b>
E-mail:	<b>woosthuizen950@gmail.com</b>		

An independent EAP has been appointed as stipulated by the NEMA Regulations. Please refer to Appendix 1 for the declaration of independence, CV and list of projects completed by the appointed EAP, indicating the experience with environmental impact assessments and relevant application processes.

#### 4. PROJECT DESCRIPTION

<b>Farm Name:</b>	A portion of the Remainder of Pniel 281 and a portion of the Vaal River (Unsurvey State Land) Province of the Northern Cape, Administrative District of Barkly-Wes
<b>Application area (Ha)</b>	112,1703 (One hundred and twelf comma one seven zero three hectares)
<b>Magisterial district:</b>	District of Barkly-Wes, Northern Cape Province
<b>Distance and direction from nearest town</b>	The farm Pniel 281 is situated on the northern bank of the Vaal River about 35 km northwest of Kimberley in the Barkly-Wes District. This application area is on a small piece of Pniel and on un-surveyed state land within the Vaal River.
<b>21 digit Surveyor General Code for each farm portion</b>	<b>C0070000000028100000 ( A Portion of the Remainder of Pniel 281)</b> <b>UNSURVEYED STATE LAND</b> Total Extent of application area: 112,1703ha
<b>Locality map</b>	Attach a locality map at a <b>scale not smaller than 1:250000 and attach as Appendix 2</b>
<b>Description of the overall activity.</b> (Indicate Mining Right, Mining Permit, Prospecting right, Bulk Sampling, Production Right, Exploration Right, Reconnaissance permit, Technical co-operation permit, Additional listed activity)	<p>The following is a description of a typical South African alluvial diamond mining operation, which is also being utilized at Kimswa. The mining method being employed is a strip mining process with oversize material from the gravel scalping and the tailings from the plant, being used as backfill material prior to final rehabilitation. Gravels are excavated, loaded and transported to the nearby treatment facility using articulated dump trucks. Gravels are then loaded onto a vibrating grizzly and the +32 mm oversize material is discarded back into the open pit (about 55% reduction). The remaining -32 mm fraction is loaded into a series of 2 X 16 sixteen foot rotary pans, each with a treatment capacity of 40 tph. Tracer tests are done regularly to ensure that the pans are operating at the correct density. Concentrate is tapped continuously from each of the pans every three hours into three ton holding bins and transported with trucks to totally enclosed final recovery unit which is situated on Holpan near Windsorton, which is designed to use both X-ray and grease diamond recovery methods or any other facility which is chosen by Kimswa Mining.</p> <p>The operational phase of the mining operation will include the mining of alluvial diamonds by means of open cast mining with machinery in approximately 100 m x 100 m blocks.</p> <p>Topsoil will be removed from the first block, where after it will be stored separately on the high ground of the proposed mining area. Stored topsoil will be kept separate from overburden and will not be used for the building or maintenance of access roads. Stored topsoil will be adequately protected from being eroded or blown away.</p> <p>Exposed diamondiferous gravel of Block 1 will them be removed by means of a back actor and loaded onto a tipper truck, which will transport it to the central mineral processing plant. At the plant the diamondiferous gravel will be sorted by means of a grizzly screen grid and all material larger than 100 mm will be separated from the rest. This material will be used in the</p>

backfilling stage.

Screened material smaller than 100 mm will be transported to a stockpiling area via front-end loader. From here it will be transported to a conveyor belt, which will feed it onto a wet rotary screen and then directly onto at approximately 2 X 16 feet washing pans.

The following procedure will be followed in terms of backfilling and rehabilitation:

The coarse gravel sifted at the grizzly screen, tailing from the pans and fine concentrate will be transported back to and dumped into open Block 1. During this process of backfilling, variation in the dumping sequence of different sized materials will be followed to ensure better compaction and stability of the reclaimed gravel. This will ensure that the voids surrounding the coarse gravel will be filled up with finer sediments. Compaction will be achieved through the movement of heavy vehicles over the area during the backfilling stage.

The river portion will only be backfilled with coarse material to limit the creation of sediments in the river.

The mining sequence will be followed until the last block is reached. Topsoil stored at the beginning of the mining operation will now be utilized for the final rehabilitation of the last block on the land portion.

Workshop equipment and tools to be used consist of secured container stores containing grease pumps, rigger chains, hydraulic jacks, air compressors, electric testers, welders, grinders, socket sets, gas sets, magnetic drills, hydraulic test instruments, tools, spanners and tool boxes. Mining activities will cover an area of approximately 40% of the area. Approximately 15 000 litres of process water will be required by the proposed mining operation per hour per pan however modern technology in de-sanding may reduce water consumption in some areas.

Process water is sourced from the Vaal River. Other sources include pumping water from the slimes disposal facility and rain water that collects within the mining excavations/blocks. The production rate of the proposed operation will be approximately 40 tph per pan.

5.

**ACTIVITIES TO BE AUTHORISED**

No Environmental Authorisation has yet been obtained for the same property. Therefore **Appendix 3** (as suggested by this Environmental Authorisation application template) is void.

This Environmental Authorisation application involves more than one listed activity, which together make up one mining operation. Therefore, please find attached a proposed site plan, drawn to a scale acceptable to the competent Authority, showing the location of all the activities to be applied for, as **Appendix 4**.

NAME OF ACTIVITY	Aerial extent of the Activity Ha or m <sup>2</sup>	LISTED ACTIVITY  (Mark with an X where applicable or affected).	APPLICABLE NOTICE  (GMR 544, GNR 545 or GNR 546)	WASTE MANAGEMENT AUTHORISATION  (Indicate whether an authorisation is required in terms of the Waste Management Act).  (Mark with an X)
<p>(E.g. for prospecting – drill site, site camp, ablation facility, accommodation, equipment storage, sample storage, site office, access route etc. ... etc. ... etc. E.g. for mining – excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablation, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc. ... etc. ... etc.)</p> <p><b>Activity 17 of NEMA Listing Notice 2</b> "Any activity including the operation of that activity which requires a mining right [section 22 of MPRDA], including infrastructure, structures and earthworks, directly related to the extraction of a mineral resource ..."</p>	112,1703 ha	X	GNR 984	
<p><b>Activity 12 of NEMA Listing notice 1</b> "The development of— (i) canals exceeding 100 square metres in size; (ii) channels exceeding 100 square metres in size; (iii) bridges exceeding 100 square metres in size; (iv) dams, where the dam, including infrastructure and water surface area, exceeds 100 square metres in size; (v) weirs, where the weir, including infrastructure</p>	5000m <sup>2</sup>	X	GNR 983	

<p>and water surface area, exceeds 100 square metres in size;</p> <p>(vi) bulk storm water outlet structures exceeding 100 square metres in size;</p> <p>(x) buildings exceeding 100 square metres in size;</p> <p>or</p> <p>(xii) infrastructure or structures with a physical footprint of 100 square metres or more;</p> <p>where such development occurs—</p> <p>(a) within a watercourse;</p> <p>(b) in front of a development setback; or</p> <p><b>(c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse'</b></p> <p>Regulation GN R704, published on 4 June 1999 in terms of the National Water Act (Use of water for mining and related activities)</p> <p>GNR984: Activity 17 Consideration of GN704 – Water Act</p>			
<p><b>Activity 21 of NEMA Listing Notice 2</b> Any activity including the operation of that activity associated with the primary processing of a mineral resource including winning, reduction, extraction, classifying, concentrating, crushing, screening and washing but excluding the smelting, beneficiation, refining, calcining or gasification of the mineral resource in which case activity 6 in this Notice applies.</p>	<p>0.5 ha will be used for the processing and associated infrastructure.</p>	<p>X</p>	<p>GNR 984</p>
<p><b>Activity 24(ii) of NEMA Listing Notice 1</b></p>	<p>±5 000m<sup>2</sup> on the</p>	<p>X</p>	<p>GNR983</p>

The development of haul roads 15m wide with no reserve	Area.			
<b>Activity 56(ii) of NEMA Listing Notice 1</b> The continuous lengthening (and rehabilitation) of haul roads 15m wide with no reserve	±5 000m <sup>2</sup> on the Area.	X	GNR983	
<b>Activity 19 of NEMA Listing Notice 1</b>	The infilling or depositing of any material more than 5 cubic metres into, or dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock or more than 5 cubic metres from-	X	GNR983	
<b>Activity 15 of NEMA Listing Notice 2</b> "The clearance of an area of 20 hectares or more of indigenous vegetation, excluding where such clearance of indigenous vegetation is required for-	A total of ±50 hectares will be physically disturbed were the alluvial diamond material will be removed and washed.	X	GNR984	
<b>Activity 10 of NEMA Listing Notice 3:</b> "The development of facilities or infrastructure for the storage, or storage and handling of a dangerous good, where such storage good, where such storage occurs in containers with a combined capacity of 30 but not exceeding 80 cubic meters."	250m <sup>2</sup>	X	GNR985	
<b>Activity 9 of Category A under the National Environmental Management: Waste Act 59 of</b>	The disposal of inert waste of 10 000 tons,		GNR 633	X

<p><b>2008</b></p>	<p>excluding the disposal of such waste for the purposes of levelling and building which has been authorised by other legislation.</p>		
<p><b>Activity 15 of Category A under the National Environmental Management: Waste Act 59 of 2008</b>  The continuous establishment and reclamation of temporary stockpiles resulting from activities which require a mining right.</p>	<p>20 000m<sup>2</sup></p>	<p>GNR 633</p>	<p>X</p>
<p><b>OTHER ACTIVITIES (Associated infrastructure not considered to be listed activities)</b>  Temporary Workshop Facilities  Storage Facilities  Concrete Bund walls and diesel Depots  Ablution Facilities  Topsoil Stockpiles  Overburden Stockpiles</p>	<p>±300m<sup>2</sup>  ±3000m<sup>2</sup>  ±250m<sup>2</sup>  ±25m<sup>2</sup></p>	<p>NOT LISTED</p>	



## 6. PUBLIC PARTICIPATION

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

**Details of the Public Participation process to be followed.**

### 6.1.1 IDENTIFICATION OF INTERESTED AND AFFECTED PARTIES TO BE CONSULTED

IDENTIFICATION CRITERIA	Mark with an X where applicable	
	YES	NO
Will the landowner be specifically consulted?	X	
Will the lawful occupier on the property other than the Landowner be consulted?	X	
Will a tribal authority or host community that may be affected be consulted?	X	
Will recipients of land claims in respect of the area be consulted?	X	
Will the landowners or lawful occupiers of neighbouring properties be identified?	X	
Will the local municipality be consulted?	X	
Will the Authority responsible for power lines within 100 metres of the area be consulted?	X	
Will Authorities responsible for public roads or railyway lines within 100 metres of the area applied for be consulted?	X	
Will Authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? (Specify)	X	
Will the Provincial Department responsible for the environment be consulted?	X	
Will all the parties identified above be provided with a description of the proposed mining/prospecting operation as referred above?	X	
Other, Specify		

### 6.1.2 DETAILS OF THE ENGAGEMENT PROCESS TO BE FOLLOWED

Steps to be taken to notify interested and affected parties (Describe the process to be undertaken to consult interested and affected parties including public meetings and one on one consultations. NB the affected parties must be specifically consulted regardless of whether or not they attended public meetings. Photographs of notice boards, and copies of advertisements and notices notifying potentially interested and affected parties of the proposed application must be attached as Appendix)	PROVIDE DESCRIPTION HERE
<b>Information to be provided to Interested and Affected Parties</b>	<p>The landowner and the neighbours will be informed personally and consulted by the applicant and this will be confirmed in writing. A consultation letter will be send to the farm owners. An advert will be published in the local newspaper for comments and a public meeting will be held.</p> <p><b>Compulsory</b></p> <ul style="list-style-type: none"> <li>• The site plan.</li> <li>• List of activities to be authorised.</li> <li>• Scale and extent of activities to be authorised.</li> <li>• Typical impacts of activities to be authorised (e.g. surface disturbance, dust, noise, drainage, fly rock etc.).</li> <li>• The duration of the activity.</li> <li>• Sufficient detail of the intended operation to enable them to assess what impact the activities will have on them or on the use of their land).</li> </ul> <p><b>Other, specify: A background document (BID), and supporting letters will be sent via registered letters to all stakeholders and IAP's. Advertisements notices will be placed in regional newspapers to inform the general public of the proposed mining activity and invite public comment. Site notices will be placed at the entrance to the site and nearby public places.</b></p>
<b>Information to be required from Interested and Affected Parties</b>	<b>Compulsory</b>

	<ul style="list-style-type: none"> <li>• To provide information on how they consider that the proposed activities will impact on them or their socio-economic conditions.</li> <li>• To provide written responses stating their suggestions to mitigate the anticipated impacts of each activity.</li> <li>• To provide information on current land uses and their location within the area under consideration.</li> <li>• To provide information on the location of environmental features on the Mining Area to make proposals as to how and to what standard the impacts on the Mining Area can be remedied requested to make written proposals.</li> <li>• To mitigate the potential impacts on their socio economic conditions to make proposals as to how the potential impacts on their infrastructure can be managed, avoided or remedied.</li> </ul>
	<b>Other, specify</b>

## 7. DESCRIPTION OF THE ASSESSMENT PROCESS TO BE UNDERTAKEN

ITEM	DESCRIPTION
<p><b>Environmental attributes</b> Describe how the environmental attributes associated with the development footprint will be determined.</p>	<p>The landowner and the neighbours will be informed personally and consulted by the applicant and this will be confirmed in writing.</p> <p>Notice boards/ Site notices and newspaper adverts will be distributed and displayed as stipulated in regulations. All interested and affected parties will receive an information brochure on the application and how they can be registered. Information brochures will also be made available at public places for the public to be involved.</p>
<p><b>Identification of impacts and risks</b> Describe the process that will be used to identify impacts and risks.</p>	<p>Consideration of the Mining Works Programme and understanding of the biophysical, cultural and socio-economic environment will be used to identify impacts and risk. Negative and positive impacts will be assessed for the following components:</p> <p>Flora Fauna Surface and Groundwater Noise and Vibration Soils Visual and topography Socio-economic Heritage Lifestyle and cultural effects on influenced persons in the neighbourhood.</p> <p>Identification of impacts and risks will be more fully assessed in the Social and Labour Plan, the Scoping Report and the EIA / EMP.</p> <p>The process used to identify and assess risks for the project are as follows: For each potential impact, the duration (time scale), extent (spatial scale), irreplaceable loss of resources, reversibility of the potential impacts, magnitude of negative or positive impacts, and the probability of occurrence of potential impacts must be assessed. The assessment of the above criteria will be used to determine the significance of each</p>

	<p>impact, with and without the implementation of the proposed mitigation measures.</p>
<p><b>Consideration of alternatives</b> Describe how alternatives, and in particular the alternatives to the proposed site layout and possible alternative methods or technology to be applied will be determined.</p>	<p>No planned alternative to proposed mining is envisaged. Should mining not proceed the current agricultural land use will continue. Proposed site layout and opencast mining with concurrent rehabilitation will minimise footprint and impact. Any alternative methodology may have greater impact. Alternatives may be looked at in more detail within the Scoping Report.</p> <p>The only other alternative would be not to continue with the operation.</p> <p><b>CONSEQUENCE IF NOT PROCEEDING WITH THE OPERATION</b></p> <p>The operation will make provision for 8 job opportunities. This will be lost if the project does not proceed. Substantial tax benefits to the state and local government will also be lost.</p> <p>The identified reserves will be mined out and backfilled in a planned mining operation. Backfilling will take place with all the overburden and oversize as far as practically possible.</p> <p>Planned, systematic and thorough mechanical reclamation of the mineral resource should take place. The reclamation progress will be indicated on an ongoing plan that will be updated regularly. The area will be visited and any sensitive areas will be identified. The proposed impacts and mitigations will be discussed in detail.</p>
<p><b>Process to assess and rank impacts</b> Describe the process to be undertaken to identify, assess and rank the impacts and risks each individual activity.</p>	<p>For each potential impact, the duration (time scale), extent (spatial scale), irreplaceable loss of resources, reversibility of the potential impacts, magnitude of negative or positive impacts, and the probability of occurrence of potential impacts must be assessed. The assessment of the above criteria will be used to determine the significance of each impact, with and without the implementation of the proposed mitigation measures</p>
<p><b>Contribution of specialist reports</b> Describe how specialist reports, if required, will be taken into consideration and inform the impact identification, assessment and remediation process.</p>	<p>Should there be a need for specialist studies their reports will be taken into consideration and findings disclosed to all interested and affected parties.</p> <p>Due to the mining techniques proposed as well as the initial impact identification, studies of surface water, ecological and heritage will be the focus of specialist studies.</p> <p>Water studies will provide a baseline study of the geology, hydrology, geochemistry and potential contamination at the proposed site and the impact of proposed mining operations on the Vaal river and existing mining users.</p> <p>Ecological studies will provide more detailed baseline assessments regarding specific plant- and animal species, soil and wetlands, their densities and conservation value. Based on the assessment and where applicable the recommendations from specialist reports, the recording of proposed impact management objectives, and the impact management outcomes for the development for inclusion in the EMPr as well as for inclusion as conditions of authorisation.</p> <p>Heritage Assessments will focus on both paleontological and archaeological significance of the area and assess the</p>

	<p>cumulative impacts within and around the proposed mine property.</p> <p>Specialist contributions will be provided in the EIA EMP.</p>																																													
<p><b>Determination of impact management objectives and outcomes</b>  Describe how impact management objectives will be determined for each activity to address the potential impact at source, and how the impact management outcomes will be aligned with standards</p>	<p><b>Methodology used in determining and ranking the nature, severity, consequences, extent, duration and probability of potential environmental impacts and risks</b></p> <p>The criteria used to assess the significance of the impacts are shown in the table below. The limits were defined in relation to mining characteristics. Those for probability, intensity/severity and significance are subjective, based on rule-of-thumb and experience. Natural and existing mitigation measures were considered. These natural mitigation measures were defined as natural conditions, conditions inherent in the project design and existing management measures, which alleviate impacts. The significance of the impacts was calculated by using the following formula:</p> <p>(Severity + Extent + Duration) x Probability weighting</p> <p>For the impact assessment, the different project activities and associated infrastructure were identified and considered in order to identify and analyse the various possible impacts.</p> <p><b>Table 5</b></p> <table border="1" data-bbox="715 1144 1409 1585"> <thead> <tr> <th colspan="5">SIGNIFICANCE</th> </tr> <tr> <th>Colour Code</th> <th>Significance rating</th> <th>Rating</th> <th>Negative Impact</th> <th>Positive Impact</th> </tr> </thead> <tbody> <tr> <td style="background-color: #90EE90;"></td> <td>Very low</td> <td>3 -16</td> <td>Acceptable/Not serious</td> <td>Marginally Positive</td> </tr> <tr> <td style="background-color: #D2B48C;"></td> <td>Low</td> <td>17 - 22</td> <td>Acceptable/Not serious</td> <td>Marginally Positive</td> </tr> <tr> <td style="background-color: #FFFF00;"></td> <td>Medium-Low</td> <td>23 -33</td> <td>Acceptable/Not desirable</td> <td>Moderately Positive</td> </tr> <tr> <td style="background-color: #FFD700;"></td> <td>Medium</td> <td>34 - 48</td> <td>Generally undesirable</td> <td>Beneficial</td> </tr> <tr> <td style="background-color: #90EE90;"></td> <td>Medium-High</td> <td>49 - 56</td> <td>Generally unacceptable</td> <td>Important</td> </tr> <tr> <td style="background-color: #008000;"></td> <td>High</td> <td>57 - 70</td> <td>Not Acceptable</td> <td>Important</td> </tr> <tr> <td style="background-color: #FF0000;"></td> <td>Very High</td> <td>90 - 102</td> <td>Totally unacceptable</td> <td>Critically Important</td> </tr> </tbody> </table> <p><b>Significance of impacts is defined as follows:</b></p> <p><b>Very Low</b> - Impact would be negligible. Almost no mitigation and/or remedial activity would be needed, and any minor steps which might be needed would be easy, cheap and simple.</p> <p><b>Low</b> - Impact would have little real effect. Mitigation and/or remedial activity would be either easily achieved or little would be required or both.</p> <p><b>Medium Low-</b> Impact would be real but not substantial within the bounds of those which could occur. Mitigation</p>	SIGNIFICANCE					Colour Code	Significance rating	Rating	Negative Impact	Positive Impact		Very low	3 -16	Acceptable/Not serious	Marginally Positive		Low	17 - 22	Acceptable/Not serious	Marginally Positive		Medium-Low	23 -33	Acceptable/Not desirable	Moderately Positive		Medium	34 - 48	Generally undesirable	Beneficial		Medium-High	49 - 56	Generally unacceptable	Important		High	57 - 70	Not Acceptable	Important		Very High	90 - 102	Totally unacceptable	Critically Important
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	High	57 - 70	Not Acceptable	Important																																										
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	<p>and/or remedial activity would be both feasible and fairly easily possible.</p> <p><b>Medium</b> - Impact would be real but not substantial within the bounds of those which could occur. Mitigation and/or remedial activity would be feasible and possible.</p> <p><b>Medium High</b>- Impact would be real but could be substantial within the bounds of those which could occur. Mitigation and/or remedial activity would be both feasible and possible but may be difficult and or costly.</p> <p><b>High</b> - Impacts of substantial order. Mitigation and/or remedial activity would be feasible but difficult, expensive, time consuming or some combination of these.</p> <p><b>Very High</b> - Of the highest order possible within the bounds of impacts which could occur. There would be no possible mitigation and/or remedial activity to offset the impact at the spatial or time scale for which was predicted.</p>
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## 8. OTHER AUTHORISATIONS REQUIRED

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

Please provide proof of submission of applications in **Appendix 5**.

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

9.

**DRAFT EMPPr**

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

ACTIVITIES	PHASE (of operation in which activity will take place)	SIZE AND SCALE (of Disturbance)	TYPICAL MITIGATION MEASURES	COMPLIANCE WITH STANDARDS
<p>(E.g. for prospecting – drill site, site camp, abutment facility, accommodation, equipment storage, sample storage, site office, access route, etc. ... etc. ... etc.)</p> <p>E.g. for mining – excavations, blasting, stockpiles, discard dumps or dams. Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, abutment, stores, workshops, processing plant, storm water control, beams, roads, pipelines, power lines, conveyors, etc. ... etc.)</p>	<p>State: Planning and design, Pre-Construction, Operational, Rehabilitation, Closure, Post closure</p>	<p>(volumes, tonnages and hectares or m<sup>2</sup>)</p>	<p>(e.g. storm water control, dust control, noise control, access control, rehabilitation, etc. ... etc.)</p>	<p>(A description of how each of the recommendations herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)</p>
Excavations	Operational	±50 ha	<p><input type="checkbox"/> Opening of excavations will proceed orderly and consecutive in limited areas of mine footprint. Backfilling to take place actively where possible. Water damping on surrounding vegetation to mitigate for dust. Noise to be limited to daylight hours. Access control must be exercised with signing in registers and environmental induction before entering on the mine.</p>	<p><input type="checkbox"/> Signed declarations <input type="checkbox"/> Mine Health and Safety Act 1996</p>
Site access	Destruction of flora	5000m <sup>2</sup>	<p>Ensure site access routes are adhered to. Signage to be displayed before vegetation removal commences.</p>	<p><input type="checkbox"/> Adherence to applicable legislation. <input type="checkbox"/> No unnecessary loss of flora.</p>
Site access	Soil compaction from use of access roads	5000m <sup>2</sup>	<p><input type="checkbox"/> Soil management programme</p>	<p><input type="checkbox"/> No unnecessary loss of soil <input type="checkbox"/> NEMA, Biodiversity Act</p>

Site access	Vehicle traffic noise pollution	5 000m <sup>2</sup>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Limit activities to normal working hours.</li> <li><input type="checkbox"/> Servicing of machines and vehicles as necessary.</li> <li><input type="checkbox"/> Stick to speed limits: 40km</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Avoid loud unnecessary noise impacts</li> <li><input type="checkbox"/> No complaints from neighbours</li> <li><input type="checkbox"/> Adhere to noise limits as stated in Health and Safety Act 1993 and Air Quality Act 2004:Dust Regulations</li> </ul>
Site establishment (mining area)	Destruction of flora	0.5ha footprint of office, and processing plant for vegetation that will be removed	<ul style="list-style-type: none"> <li><input type="checkbox"/> Only remove what is necessary.</li> <li><input type="checkbox"/> Demarcation of no-go areas</li> <li><input type="checkbox"/> Awareness training</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> End use objective to be kept in mind while removing vegetation.</li> <li><input type="checkbox"/> Adherence to the Biodiversity Act 2004.</li> </ul>
Site establishment (mining area)	Surface disturbance (topsoil removal)	0.5ha for office and plant alluvial diamond deposit will be removed and rehabilitated	<ul style="list-style-type: none"> <li><input type="checkbox"/> Remove topsoil 100-150mm</li> <li><input type="checkbox"/> Stockpile in designated area</li> <li><input type="checkbox"/> Ensure no invasive species establish</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Visual inspection on topsoil (invasive species)</li> <li><input type="checkbox"/> No wastage of valuable resource.</li> <li><input type="checkbox"/> Adherence to Alien Invasive Species Regulations 2014.</li> </ul>
Site establishment (Mining area)	Dust emission from clearing soil	0.5ha that will be removed and plant that will be constructed on	<ul style="list-style-type: none"> <li><input type="checkbox"/> Dust suppression to be undertaken when deemed necessary.</li> <li><input type="checkbox"/> Dust sampling: Personal exposure and dust buckets</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Avoid dust pollution and complaints from public.</li> <li><input type="checkbox"/> Remain within the Air Quality Act, 2004 Dust regulations</li> </ul>
Mining activities	Surface disturbance	50ha diamonds that will be removed and 0.5ha plant that will be constructed	<ul style="list-style-type: none"> <li><input type="checkbox"/> Stick with mining layout plan, site layout.</li> <li><input type="checkbox"/> Monitoring on the Mining Area weekly</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> No mining over allowed boundaries</li> <li><input type="checkbox"/> Inspection sheet to be completed on the Area</li> <li><input type="checkbox"/> Adherence to MPRDA and authorisation</li> </ul>
Mining activities Stockpiling	Surface disturbance	0.5ha	Topsoil and overburden will be stockpiled on demarcated sites. Storm water berms will protect stockpiles from erosion. Topsoil will be covered to prevent desiccation and wind loss.	<ul style="list-style-type: none"> <li>No mining over allowed boundaries.</li> <li>Adherence to MPRDA and authorisation</li> </ul>

Stormwater control	Storm water control	50ha diamond alluvial footprint that will be worked.	Storm water and runoff to be curtailed and diverted into natural drainage	No mining over allowed boundaries. Adherence to MPRDA and authorisation
Mining activities	Potential hydrocarbon spills from machinery and equipment	50ha that will be removed and 0.5ha plant that will be constructed	<input type="checkbox"/> Spills kits and preventative measures to be in place at all times at the mine. <input type="checkbox"/> Proper servicing of equipment and machinery. <input type="checkbox"/> Training and awareness	<input type="checkbox"/> No hydrocarbon spills evident. <input type="checkbox"/> Pollution avoidance <input type="checkbox"/> Training programme
Mining activities	Dust from mining activities	50ha that will be removed and 0.5ha plant that will be constructed	<input type="checkbox"/> Dust suppression to be undertaken. <input type="checkbox"/> Dust monitoring	<input type="checkbox"/> Dust agent used from an approved source <input type="checkbox"/> Remain within the Air Quality Act, 2004 Dust regulations
Mining activities	Possible change in drainage patterns	50 ha that will be removed and 0.5 ha plant that will be constructed	<input type="checkbox"/> Erosion Management Plan <input type="checkbox"/> Weekly visual inspections	<input type="checkbox"/> No visible erosion
Mining activities	Aesthetics Value	50ha that will be removed and 0.5ha plant that will be constructed	<input type="checkbox"/> Screen off mining activities where necessary	<input type="checkbox"/> Consider and address complaints received from public



## 10. CLOSURE PLAN

<p><b>In the space provided under each heading below, please provide a high level description of the plan for closure and the information that will be provided in the draft EMPr accompanying draft basic assessment report or environmental impact reports going forward.</b></p>	
<p><b>Baseline environment</b> Describe how the baseline environment will be determined with the input of interested and affected parties and due cognizance of the current land uses and or existing biophysical environment.</p>	<p>The baseline environment will be determined by a site visit, specialist studies (if necessary) and a desktop study. Information will also be obtained should there be any concerns from local communities/ landowners.</p>
<p><b>Closure objectives</b> Describe the closure objectives and the extent to which they will be aligned to the baseline environment</p>	<ul style="list-style-type: none"> <li>➤ The main closure objective of the mine is to clear the area to make it available to the surface owner again as required in the Agreement.</li> <li>➤ To prevent the sterilization of any ore reserves.</li> <li>➤ To prevent the establishment of any permanent structures or features.</li> <li>➤ Establish a stable and self-sustainable vegetation cover if necessary.</li> <li>➤ To limit and rehabilitate any erosion features and prevent any permanent impact to the soil capability of the Area.</li> <li>➤ To limit and manage the visual impact of the Area.</li> <li>➤ To safeguard the safety and health of humans and animals on the Area.</li> <li>➤ The last closure objective is that the Area is closed efficiently, cost effectively and in accordance with government policy.</li> </ul>
<p><b>Rehabilitation Plan</b> Describe the scale and aerial extent of the prospecting or mining listed activities to be authorised, including the anticipated prospecting or mining area at the time of closure, and confirm that a site rehabilitation plan drawn to a suitable scale will be provided in the draft EMPr to be submitted together with the draft EIR or Basic Assessment Report as the case may be.</p>	<ul style="list-style-type: none"> <li>➤ Infrastructure Areas:</li> </ul> <p>On completion of the mining operation, the various surfaces, including the access roads, on the area and the office area, storage areas and the screening plant site will finally be rehabilitated as below.</p> <p>All remaining material on the surface will be removed to the original topsoil level. This material will then be backfilled into the depressions. Any compacted area will then be ripped to a depth of 300mm, where possible, the topsoil or growth medium returned and landscaped.</p> <p>All infrastructures, equipment, crushing plant, and other items used during the operational period will be removed as well as equipment.</p> <p>On completion of operations, all buildings, structures or objects will be dealt with in accordance with NEMA and Regulation 44 of the MPRDA, which states:-</p> <p><i>Regulation 44</i></p> <ol style="list-style-type: none"> <li>1. <i>When a prospecting right, mining right, retention permit or mining permit lapses, is cancelled or is abandoned or when any prospecting or mining operation comes to an end, the holder of such right or permit may not demolish or remove any building, structure or object –</i> <ol style="list-style-type: none"> <li>(a) <i>which may not be demolished or removed in terms of any other law;</i></li> <li>(b) <i>which has been identified in writing by the Minister for purposes of this section; or</i></li> <li>(c) <i>which is to be retained in terms of an agreement between the holder and the owner or occupier of the land, which agreement has been approved by the Minister in writing.</i></li> </ol> </li> <li>2. <i>The provision of subsection (1) does not apply to bona fide</i></li> </ol>

*mining equipment, which may be removed.*

**Topsoil and Stockpile Deposits:**

**Disposal facilities**

Waste material of all description inclusive of receptacles, scrap, rubble and tyres will be removed entirely from the Area and disposed of at a recognised landfill facility. It will not be permitted to be buried or burned on the Area.

**Ongoing seepage, control of rain water**

No monitoring of ground or surface water will take place, except if so required by the Department of Water and Sanitation – Kimberley.

**Long term stability and safety**

It will be the objective of the Mine to ensure the long term stability of all rehabilitated areas including the backfilled depressions. This will be done by the monitoring of all areas until a closure certificate has been issued.

**Final rehabilitation in respect of erosion and dust control**

Self-sustaining vegetation will result in the control of erosion and dust and no further rehabilitation is planned.

**Rehabilitation of depressions**

Due to the removal of the diamonds numerous excavations could be created that can be classified as dangerous. All available material will be used during backfilling to avoid the existence of dangerous depressions or pits. The removal of the diamonds will also be limited to 3m deep.

**Final rehabilitation roads**

After rehabilitation has been completed, all roads will be ripped or ploughed, fertilized and seeded, providing the landowner does not want them to remain that way and with written approval from the Director Mineral Development of the Department of Mineral Resources.

**Submission of information**

Reports on rehabilitation and monitoring will be submitted to the Department of Mineral Resources – Kimberley, as required under the Financial Provision Regulations published under NEMA (Government Notice R1147 in *Government Gazette* 39425 of 20 November 2015) (the "**Financial Provision Regulations**").

**Maintenance (Aftercare)**

Maintenance after closure will mainly concern the regular inspection and monitoring and/or completion of the re-vegetation programme.

The aim of this Environmental Management Plan is for rehabilitation to be stable and self-sufficient, so that the least possible aftercare is required.

The aim with the closure of the mine will be to create an acceptable post-mine environment and land-use. Therefore all agreed commitments will be implemented by Mine Management.

➤ **After-effects following closure:**

**Acid mine drainage**

No potential for bad quality leachate or acid mine drainage development exist after mine closure.

	<p>Long term impact on groundwater No after effect on the groundwater yield or quality is expected.</p> <p>Long-term stability of rehabilitated land One of the main aims of any rehabilitated ground will be to obtain a self-sustaining and stable end result. Cleaning of all brick material concurrently and replacing of topsoil where available.</p>
<p><b>Rehabilitation Cost</b> Describe how the rehabilitation cost will be determined and provide a preliminary estimated thereof.</p>	<p>The quantum for annual rehabilitation, closure and final rehabilitation will be determined in accordance with the Financial Provision Regulations.</p>
<p><b>Decommissioning</b> Considering that rehabilitation must take place upon cessation of an activity, describe when each of activities applied for will be rehabilitated in terms of either the cessation of the individual activity or the cessation of the overall prospecting or mining activity.</p>	<p>The last phase of the proposed mining operation, namely the decommissioning, closure phase and final rehabilitation, will consist mainly of the following activities:</p> <ul style="list-style-type: none"> <li>•The removal of waste material of any description from the Areas and the disposal thereof at a recognised landfill facility.</li> <li>•The removal of infrastructure, equipment, plant and other items.</li> <li>•The ripping of compacted areas to a level of 300 mm and the levelling of such areas in order to re-establish a growth medium for plants. (Such areas will furthermore be seeded with a vegetation seed mix adapted to reflect the local indigenous flora that was present prior to the mining operation, if the reestablishment of vegetation is unacceptably slow).</li> <li>•The backfilling of the final excavation with overburden after removal of the alluvial diamond deposit material with subsoil and the covering thereof with previously stored topsoil (whereafter this area will also be seeded with a vegetation seed mix adapted to reflect the local indigenous flora that was present prior to the proposed operation, and seedlings protected for a period of one year) if the reestablishment of vegetation is unacceptably slow.</li> </ul>



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

Wadala Mining and Consulting (Pty) Ltd

Name of company (if applicable):

Date: 03 September 2018

**APPENDIX 4  
DECLARATION OF THE EAP**

I, **RH Oosthuizen**, declare that –

General declaration:

- I act as the independent environmental practitioner in this application;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting environmental impact assessments, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I will take into account, to the extent possible, the matters listed in regulation 8 of the Regulations when preparing the application and any report relating to the application;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing – any decision to be taken with respect to the application by the competent authority; and – the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- I will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;
- I will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the competent authority in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the competent authority may be attached to the report without further amendment to the report;
- I will keep a register of all interested and affected parties that participated in a public participation process; and
- I will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not;
- All the particulars furnished by me in this form are true and correct;
- Will perform all other obligations as expected from an environmental assessment practitioner in terms of the Regulations; and
- I realise that a false declaration is an offence in terms of regulation 71 of the Regulations and is punishable in terms of section 24F of the Act.

**Disclosure of Vested Interest (delete whichever is not applicable)**

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



**RH OOSTHUIZEN  
WADALA MINING AND CONSULTING  
DATE: 03/09/2018**

## APPENDIX 1

# CURRICULUM VITAE – RH OOSTHUIZEN

## PERSONAL DETAILS

**FULL NAMES AND SURNAME** : **Roelina Henriëtte Oosthuizen**

**DATE OF BIRTH** : **18 April 1970**

**I.D. NO** : **700418 0037 08 2**

**MARITAL STATUS** : **Married**

**CITIZENSHIP** : **Republic of South Africa**

**RESIDENTIAL ADDRESS** : **Farm Oberon  
Kimberley**

**POSTAL ADDRESS** : **P.O. Box 110823  
Hadisonpark  
Kimberley  
8306**

**E-MAIL ADDRESS** : **roosthuizen950@gmail .com**

**CEL NO** : **084 208 9088**

**DRIVER'S LICENCE** : **EB**

**LANGUAGES** : **Afrikaans (home language)  
English**

## QUALIFICATIONS

- 2000**                      **UNIVERSITY OF THE ORANGE FREE STATE**
- Qualification: Master in Environmental Management.**
- 1991**                      **NORTH WEST UNIVERSITY**
- Qualification: B – Comm: Industrial psychology.**
- 1988**                      **BRITSHIGH SCHOOL (BRITS)**
- Qualification: Matric**

## COURSES and Conferences ATTENDED

I have attended various mining and environmental conferences and seminars to stay abreast with the latest changes in legislation, legal compliance and policy positions in the sector.

<b>August 1994</b>	Junior Managers (Public Service Training Institute)
<b>November 1994</b>	Mineral Laws Administration (Public Service Training Institute)
<b>October 1997</b>	Mineral Laws Administration & Environmental Management (University of Pretoria)
<b>July 2002</b>	Project Management for Environmental Systems (University of the Orange Free State)
<b>August 2004</b>	Environmental and Sustainability in Mining Minerals and Energy Education and Training Institute (MEETI)
<b>September 2005</b>	Converting Old Order Rights to New Order Rights in Mining (International Quality & Productivity Centre Johannesburg)
<b>November 2006</b>	Mine waste disposal and Achievement of Mine Closure
<b>February 2007</b>	Introduction to ArcGis 1
<b>April 2010</b>	Mining Law Update Conference (IIR BV South Africa)

<b>November 2010</b>	Social Labour Plans for Mining Workshop (Melrose Training)
<b>August 2011</b>	Mineral Resources Compliance and Reporting (ITC)
<b>May 2012</b>	Enviro Mining Conference 2012 (Sustainability and Rehabilitation) (Spectacular Training Conferences)
<b>August 2012</b>	Mineral Resources Compliance and Reporting 4 <sup>th</sup> Annual (ITC)
<b>March 2013</b>	1st Enviro Mining-Ensuring Environmental Compliance and reporting
<b>March 2014</b>	4 <sup>th</sup> Annual Enviro Mining Conference
<b>March 2015</b>	5 <sup>th</sup> Annual Enviro Mining Conference

## CAREER HISTORY

### ***Wadala Mining and Consulting (Pty) Ltd:***

**ADDRESS** : Farm Oberon  
Kimberley  
8301

**PERIOD OF EMPLOYMENT** : 01 August 2013 - Part time

**POSITION HELD** : **Mineral Law Administration and Environmental  
Manager**

### ***Diacor Closed Corporation:***

**ADDRESS** : 6 Mullin Street  
Hadisonpark  
Kimberley  
8306

**PERIOD OF EMPLOYMENT** : 01 October 2013 – Present and part time consultancy  
work

**POSITION HELD** : **Mineral Law Administration and Environmental  
Manager**

## ***Mentor Trading and Investments 52 (Pty) Ltd:***

**ADDRESS** : 2 Kekewich Drive  
Monridge Office Park no 6  
Monument Heights  
Kimberley  
8301

**PERIOD OF EMPLOYMENT** : 01 October 2012 – 01 October 2013

**POSITION HELD** : **Mineral Law Administration and Environmental  
Manager**

## ***Rockwell Diamonds Inc:***

**ADDRESS** : PO Box 251  
BARKLY-WES  
8375

**PERIOD OF EMPLOYMENT** : 01 March 2005 – 30 September 2012

**POSITION HELD** : **Mineral Law Administration and Environmental  
Manager**

**MAIN JOB FUNCTIONS**

- Collect analyse and interpret information regarding the measurement of impacts of mining operations on the environment, the rehabilitation of land surfaces.
- The prevention, control and combating of pollution.
- Co-ordinate, investigate, audit and resolve environmental problems in conjunction with the Department of Water and Sanitation, Department of Agriculture and the provincial Department of Tourism, Environment and Conservation.
- Address complaints and inquiries received from the public and mining industry.
- Consult with relevant authorities and interested and affected people regarding the approval of Environmental Management Programmes.
- Ensuring that rehabilitation standards are applied.
- Ensuring that the requirements stated in Environmental Management Programme Reports are adhered to.
- Evaluate Mining Rights and Prospecting Right applications and recommend site-specific conditions according to legislative requirements.
- Constant liaison with the public, the mining industry and other government authorities on Environmental matters, legislation and agreements.
- Calculate and verify financial provision for outstanding rehabilitation.



## **DEPT OF MINERALS & ENERGY:**

- ADDRESS** : 43 Chapel Street  
Standard Bank Building  
KIMBERLEY
- PERIOD OF EMPLOYMENT** : 01 April 1997 to 01 March 2005
- POSITION HELD** : **Senior Environmentalist - Assistant Director  
Environment**
- MAIN JOB FUNCTIONS** :
- Collect analyse and interpret information regarding the measurement of impacts of mining operations on the environment, the rehabilitation of land surfaces.
  - The prevention, control and combating of pollution.
  - Co-ordinate and prioritise the rehabilitation of derelict and ownerless mines.
  - Co-ordinate, investigate, audit and resolve environmental problems in conjunction with the Department of Water Affairs and Forestry, Department of Agriculture and the provincial Department of Tourism, Environment and Conservation.
  - Address complaints and inquiries received from the public and mining industry.
  - Consult with relevant authorities and interested and affected people regarding the approval of Environmental Management Programmes.
  - Ensuring that rehabilitation standards are applied.
  - Ensuring that the requirements stated in Environmental Management Programme Reports are adhered to.
  - Conduct inspections and recommendations on mines that apply for closure.
  - Evaluate mining licences and prospecting applications and recommend site-specific conditions according to legislative requirements.
  - Constant liaison with the public, the mining industry and other government authorities on environmental matters, legislation and agreements.
  - Influence new development processes through participation in the EMPR and EIA processes and give guidance through education and awareness programmes.
  - Calculate and verify financial provision for outstanding rehabilitation.

## ***DEPT. OF MINERALS AND ENERGY:***

**POSITION HELD** : Assistant Mineral Laws Officer – Senior Mineral Laws Officer

**PERIOD OF EMPLOYMENT** : 01 November 1993 – March 1997

## ***ADVISORY COMMISSION ON LAND ALLOCATION***

**POSITION HELD** : Assistant Administrative Officer

**PERIOD OF EMPLOYMENT** : 10 February 1992 – October 1993

## **Experience Projects Completed**

I am a dedicated professional Mineral Law Administration and Environmental Manager with 23 years extensive experience in the managing and mitigating of specifically mining related impacts. I started my career in 1993 in the Department of Minerals and Energy where I have done Environmental inspections with site visits on all mines in the Northern Cape. I have done Environmental Audits on operational and closed mining sites in collaboration with other Departments. I have also specifically looked at pollution control measures on mining sites and the effectiveness of these measures. I have evaluated submitted EIA /EMP documents and have worked closely with all other Departments and stakeholders to make sure that all environmental aspects have been dealt with adequately in submitted documents. I left the Department for the Private Sector in 2005. I have since worked for a Canadian Group of Companies in the Private Sector, started a consultancy where I provide various mining companies with professional advice and guidance on Mineral Law and Environmental Issues. I have also represented the South African Diamond Producers Organisation (SADPO) on the Environmental Policy Committee (EPC) at the Chamber of Mines between 2005 and 2011.

## **2005**

**Environmental Management Plan with an application for a Prospecting Right for diamonds on Portion 9 and 14 of the farm Lanyon Vale 376, Hay in terms of Section 16(4) and Regulation 52 of the Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002)**

**EMPlan was approved in August 2007 with the Prospecting Right**

**Client: HC van Wyk Diamonds Ltd**

**Environmental Management Plan with an application for a Prospecting Right for diamonds on Remainder of Portion 18 (a portion of Portion 10) of the farm Lanyon Vale 376, Hay in terms of Section 16(4) and Regulation 52 of the Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002)**

**EMPlan was approved in August 2007 with the Prospecting Right**

**Client: HC van Wyk Diamonds Ltd**

**Environmental Management Plan with an application for a Prospecting Right for diamonds on Remainder of Portion 1, Portion 2 (a Portion of Portion 1), Portion 3 and Portion 5 of the farm Zweet Fontein nr 76 and Remainder of Portion 1 and portion 3 of the farm Blaaubosch Drift nr 78, Herbert in terms of Section 16(4) and Regulation 52 of the Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002)**

**EMPlan was approved in August 2007 with the Prospecting Right**

**Client: HC van Wyk Diamonds Ltd**

## **2006**

**Environmental Management Plan with an application for a Prospecting Right for Tin in Kakamas South Settlement, Kakamas in terms of Section 16(4) and Regulation 52 of the Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002)**

**EMPlan was approved in June 2011 with the Prospecting Right**

**Client: Douglas Mining and Exploration (Pty) Ltd**

## **2007**

**Environmental Management Plan with an application for a Prospecting Right for diamonds on the Remaining Extent, Portion 1 and Portion 2 of Diamond Valley 29, Hopetown in terms of Section 16(4) and Regulation 52 of the Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002)**

**EMPlan was approved in April 2008 with the Prospecting Right**

**Client: HC van Wyk Diamonds Ltd**

## **2008**

**Environmental Management Plan with an application for a Prospecting Right for diamonds on Portion 12, 13, 16, 24 & 25 Saxendrift 20 in terms of Section 16(4) and Regulation 52 of the Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002)**

**EMPlan was approved in June 2008 with the Prospecting Right**

**Client : HC van Wyk Diamonds Ltd**

**Environmental Management Plan with an application for a Prospecting Right for diamonds on Erf 1 Windsorton, Barkly-Wes in terms of Section 16(4) and Regulation 52 of the Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002)  
EMPlan was approved in February 2009 with the Prospecting Right  
Client: HC van Wyk Diamonds Ltd**

**2009**

**ENVIRONMENTAL IMPACT ASSESSMENT & ENVIRONMENTAL MANAGEMENT PROGRAMME SUBMITTED FOR AN APPLICATION FOR A MINING RIGHT CONVERSION IN TERMS OF SECTION 39 & OF REGULATION 50 & 51 OF THE MPRDA, 2002 (ACT NO. 28 OF 2002) for Wouterspan Mine (The Farm Lanyon Vale 376, Hay)  
EIA/EMP approved on 25/01/2010  
Client: HC van Wyk Diamonds Ltd**

**ENVIRONMENTAL IMPACT ASSESSMENT & ENVIRONMENTAL MANAGEMENT PROGRAMME SUBMITTED FOR AN APPLICATION FOR A MINING RIGHT CONVERSION IN TERMS OF SECTION 39 & OF REGULATION 50 & 51 OF THE MPRDA, 2002 (ACT NO. 28 OF 2002) for GW Ziegler on Remainder, Remainder of portion 1 (Amantia) and portion 2 (a portion of portion 1) of the farm Rietputs no. 15 and portion 1 (Spenceskop) of the farm Waterval no.14 in the district of Kimberley  
EIA/EMP approved with conversion of the Mining Right  
Client: GW Ziegler**

**2010**

**Basic Assessment Application**

**Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2006  
PROPOSED EXTENTION OF A ROOF OVER AN EXCISTING DECK WITH TWO WOOD PILLARS BY MEANS OF THE EXCAVATING OF 0.5m X 0.5m X 1m X 2 (½m<sup>2</sup>) OF SOIL WITHIN 100M OF THE HIGH WATER MARK OF THE SEA  
Falls within general notes under activities that requires basic assessment  
Positive Record of Decision (ROD) Granted.  
Client: Dr. Petrus van der Walt Vermeulen**

**REVISION OF ENVIRONMENTAL IMPACT ASSESSMENT & ENVIRONMENTAL MANAGEMENT PROGRAMME SUBMITTED FOR AN APPLICATION FOR A MINING RIGHT CONVERSIONS IN TERMS OF SECTION 39 & OF REGULATION 50 & 51 OF THE MPRDA, 2002 (ACT NO. 28 OF 2002) for HC VAN WYK DIAMONDS LTD (204 MRC) ON REMAINING EXTENT OF HOLPAN 161, BARKLY-WES AND KLIPDAM DIAMOND MINING CO (003MRC) ON REMAINING EXTENT OF KLIPDAM 157, BARKLY-WES  
Client: HC van Wyk Diamonds Ltd and Klipdam Diamond Mining Company Ltd**

**2011**

**APPLICATION FOR A LICENCE REGARDING PROTECTED TREES [SECTION 15(1) OF THE NATIONAL FORESTS ACT, 1998, AS AMENDED] on PORTION 1 (PAARDE PAN) OF THE FARM ANNEX SAXES DRIFT 21, HOPETOWN, NORTHERN CAPE for 14 Shephards tree (Boscia albitunca)**

**Licence issued on 24 September 2011**

**Client : Saxendrift Mine Pty Ltd**

**ENVIRONMENTAL IMPACT ASSESSMENT & ENVIRONMENTAL MANAGEMENT PROGRAMME SUBMITTED FOR AN APPLICATION FOR A MINING RIGHT CONVERSION IN TERMS OF SECTION 39 & OF REGULATION 50 & 51 OF THE MPRDA, 2002 (ACT NO. 28 OF 2002) on Portion 2 of the farm Good Hope 286, Barkly-Wes**

**EIA/EMP approved February 2013 by the Regional Manager**

**Client: Diacor CC**

**APPLICATION FOR CLOSURE CERTIFICATE [in terms of sections 43(3) of the Minerals and Petroleum Resources Development Act, 2002 (Act No 28 of 2002)] AND A CLOSURE PLAN FOR MINING ACTIVITIES PERFORMED BY HC VAN WYK DIAMONDS LTD ON THE REMAINING EXTENT OF PORTION 1 (WILLOWBANK), PORTION 2 (A PORTION OF PORTION 1) (WILLOWBANK), PORTION 3 (A PORTION OF PORTION 1) (WILLOWBANK) OF KHOSOPSKRAAL 227 AND PORTION 5 (ROSCOMMON) AND PORTION 2 (BORDON) OF HARRISDALE 226 AND FARM 362, BARKLY-WES CLOSURE WAS GRANTED IN JULY 2010**

**Client: HC VAN WYK DIAMONDS LTD**

**2012**

**APPLICATION FOR A LICENCE REGARDING PROTECTED TREES [SECTION 15(1) OF THE NATIONAL FORESTS ACT, 1998, AS AMENDED] on PORTION 1 OF THE FARM BRAKFRONTEIN 276, HOPETOWN NORTHERN CAPE for 4Shephards tree (Boscia albitunca)**

**Licence NCU 2831112 issued in November 2012**

**Client: Jasper Mining Pty Ltd**

**2013**

**APPLICATION FOR A LICENCE REGARDING PROTECTED TREES [SECTION 15(1) OF THE NATIONAL FORESTS ACT, 1998, AS AMENDED] ON REMAINDER OF THE FARM NIEWEJAARSKRAAL NO 40, PRIESKA, NORTHERN CAPE. 30 SHEPPHARD'S TREES**

**Licence NCU 4290214 issued in February 2014**

**Client: Saxendrift Mine (Pty) Ltd (Niewejaarskraal Mine)**

**AMENDMENT OF ENVIRONMENTAL IMPACT ASSESSMENT & ENVIRONMENTAL MANAGEMENT PROGRAMME SUBMITTED FOR A SECTION 11 APPLICATION OF A MINING RIGHT CONVERSION IN TERMS OF SECTION 39 & OF REGULATION 50 & 51 OF THE MPRDA, 2002 (ACT NO. 28 OF 2002) on The Farm Riets Drift no. 18, district**

**Client: Bo-Karoo Diamond Mining (Pty) Ltd to be ceded to Bondeo 140 CC.**

**2014**

**Application for a Water Users Licence Application in terms of Section 27 of the National Water Act no 36 of 1998 on the Farm Engelde Wilgeboomfontein 22, Prieska**

**Application still under review**

**Client: Thunderflex 78 (Pty) Ltd**

**ENVIRONMENTAL IMPACT ASSESSMENT & ENVIRONMENTAL MANAGEMENT PROGRAMME SUBMITTED FOR AN APPLICATION FOR A MINING RIGHT CONVERSION IN TERMS OF SECTION 39 & OF REGULATION 50 & 51 OF THE MPRDA, 2002 (ACT NO. 28 OF 2002) on Portion 1 of the farm Brakfontein 276 district of Hopetown**

**EIA/EMP approved April 2015 by the Regional Manager**

**Client: Jasper Mining (Pty) Ltd**

**Environmental Management Plan with an application for a Prospecting Right for diamonds on REMAINING EXTENT OF THE FARM MARKSDRIFT 3, HOPETOWN in terms of Section 16(4) and Regulation 52 of the Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002) EMPlan was approved in April 2015 with the Prospecting Right**

**Client: BONDEO 140 CC**

**2015**

**ENVIRONMENTAL IMPACT ASSESSMENT & ENVIRONMENTAL MANAGEMENT PROGRAMME SUBMITTED FOR AN APPLICATION FOR A PROSPECTING RIGHT IN TERMS OF SECTION 39 & OF REGULATION 50 & 51 OF THE MPRDA, 2002 (ACT NO. 28 OF 2002) on Portion 1 of the farm Speculatie 217 district of Boshof**

**EIA/EMP has been accepted by the Regional Manager Free State Region**

**Client: Thaba Thafita Diamond Prospecting CC**

**ENVIRONMENTAL IMPACT ASSESSMENT & ENVIRONMENTAL MANAGEMENT PROGRAMME SUBMITTED FOR AN APPLICATION FOR A PROSPECTING RIGHT IN TERMS OF SECTION 39 & OF REGULATION 50 & 51 OF THE MPRDA, 2002 (ACT NO. 28 OF 2002) on a Portion of Erf 1318, Galeshewe , and a Portion of the Remainder Erf 5336, Kimberley**

**EIA/EMP still under review by the Regional Manager Northern Cape Region**

**Client: Mystic Pearl 157 (Pty) Ltd**

**2016**

**ANNUAL REHABILITATION PLAN for Associated Manganese Mines of South Africa Ltd**

**Glosam Prospecting Area**

**February 2016**

# REFERENCES

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*The End*

DIE UNIVERSITEIT  
VAN DIE ORANJE-  
VRYSTAAT



THE UNIVERSITY  
OF THE ORANGE  
FREE STATE

HIERMEE WORD VERKLAAR DAT DIE GRAAD THIS IS TO CERTIFY THAT THE DEGREE

**Magister in Omgewingsbestuur**  
**Master in Environmental Management**

TOEGEKEN IS AAN  
HAS BEEN CONFERRED UPON

**ROELINA HENRIËTTE OOSTHUIZEN**

NADAT AAN DIE STATUTE EN REGULASIES VAN IN ACCORDANCE WITH THE STATUTES AND  
DIE UNIVERSITEIT VOLDOEN IS, AS BEWYS REGULATIONS OF THE UNIVERSITY, AS  
DAARVAN PLAAS ONS ONS ONDERSKEIE WITNESS OUR RESPECTIVE SIGNA-  
HANDTEKENINGE EN DIE SEËL VAN DIE TURES AND THE SEAL OF THE  
UNIVERSITEIT HIERONDER. UNIVERSITY BELOW.



*A-J Boetse*

.....  
VISEKANSELIER/VICE-CHANCELLOR

*G. N. van Wyk*

.....  
DEKANEAN

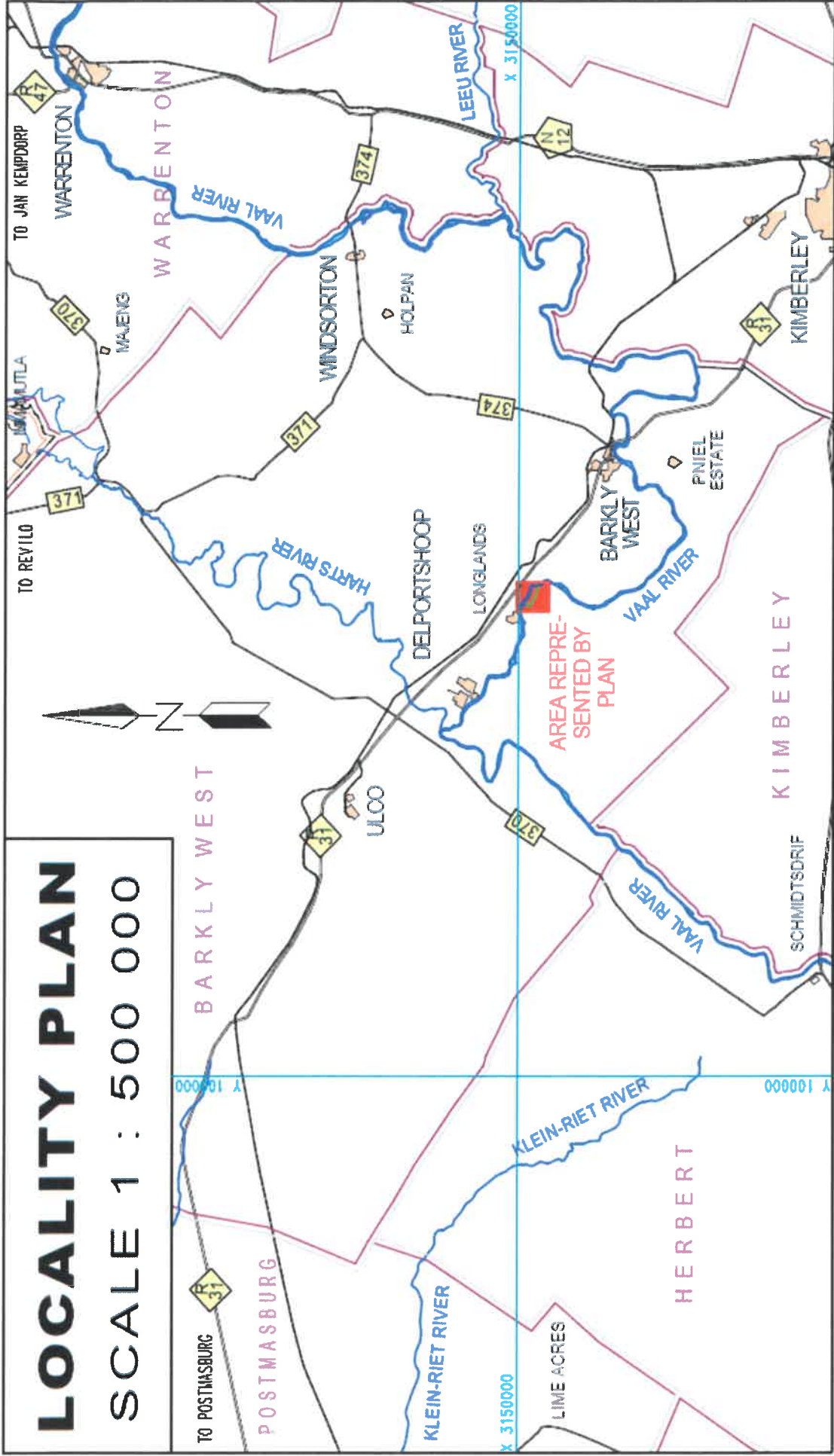
*[Signature]*

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REGISTRATEUR/REGISTRAR

BLORMFONTEIN  
2000 09 16



**APPENDIX 2**  
**1:250 000 TOPOCADASTRAL MAP 2824 KIMBERLEY**



**Figure 1:** Map application area 1 -1:250 000 topocadastral map insert indicating the application area with a Green line with the red block.

**APPENDIX 4**

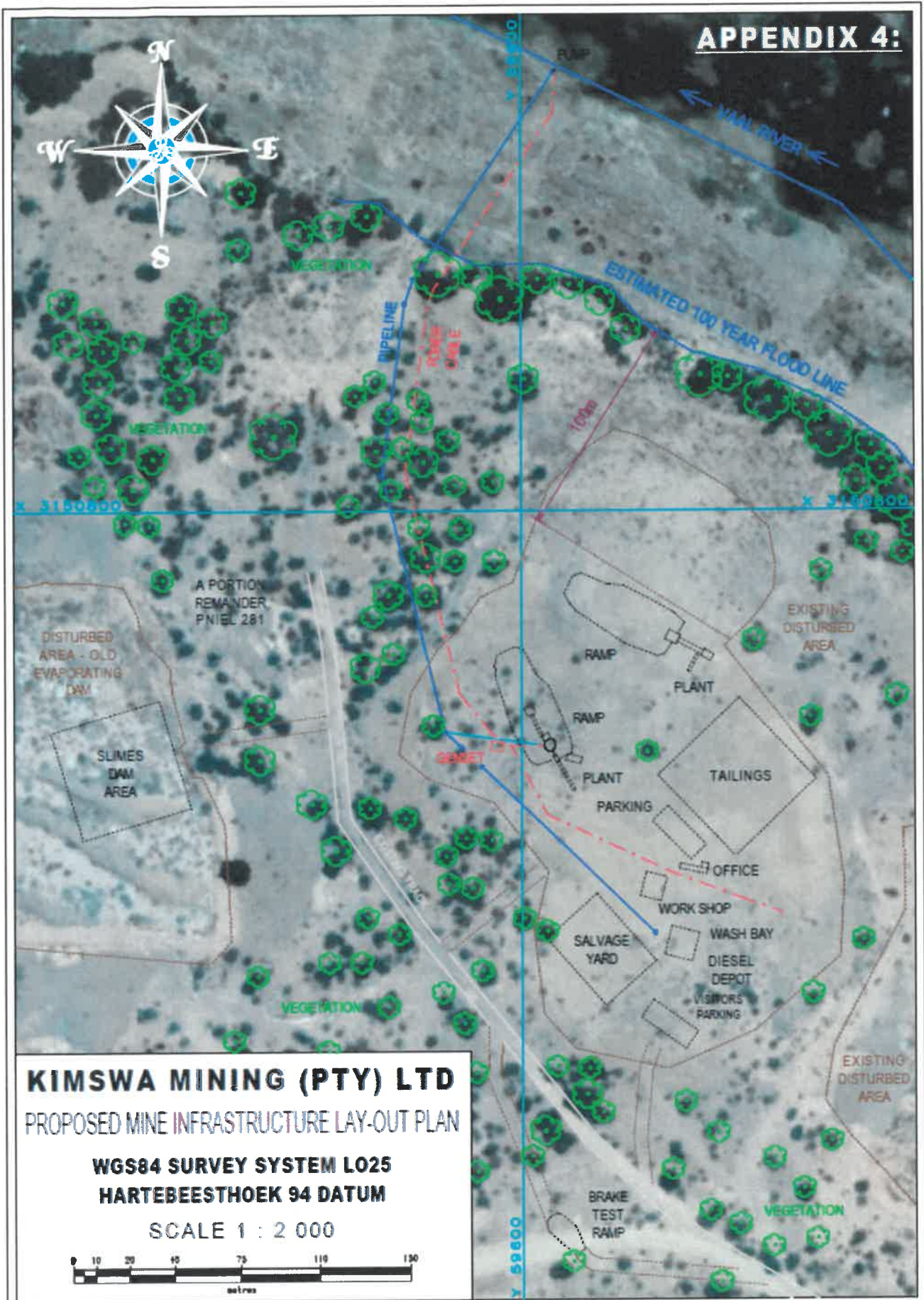


Figure 4: Mine Infrastructure Plan

