

## Tanja Bekker

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**From:** Tanja Bekker  
**Sent:** 15 October 2018 08:33 AM  
**To:** 'Pieter Swart'; 'Ntsundeni.Ravhugoni@dmr.gov.za'; 'Raisibe.Sekepane@dmr.gov.za'  
**Subject:** RE: 070 Application (2018) - Khumani Iron Ore Mine  
**Attachments:** Khumani 2018 EA Application\_FINAL only.pdf; OLW5594181\_Proof of delivery.pdf; Proof of payment 280918.pdf

**Importance:** High

Dear Mr. Swart, Mr. Ravhugoni and Ms. Sekepane,

I hope you find this email in order. I have not been able to get through to registry at the department to determine the status of the attached application.

EnviroGistics submitted an Application for full EIA to the DMR on 2 October 2018 (please find a copy of the application – excluding annexure; the proof of payment as well as the proof of submission and delivery). To date we have not received an acknowledgment of receipt from the DMR. According to the Regulatory timeframes the draft Scoping Report must be made available for stakeholder review for a period of 30 days, and the final report be submitted to the DMR within 45 days of submission of the application.

For this reason the draft Scoping Report will be submitted for review to all stakeholders from 17 October 2018. The report will also be submitted to the DWS, NCDENC, SAHRA, Districts Municipality and Local Municipality in hard copy for review.

We kindly request acknowledgement of the application in writing in order to ensure that the project is allocated to an official.

Kind Regards,

**Tanja Bekker**

*MSc. Environmental Management  
Certified EAPSA; PrSci. Reg. 400198/09*



EnviroGistics (Pty) Ltd  
PO Box 22014, Helderkruin, 1733  
Email: [tanja@envirogistics.co.za](mailto:tanja@envirogistics.co.za)  
Cell: 082 412 1799  
Fax: 086 551 5233

*“Driven to achieve Environmental Compliance and Excellence throughout the life cycles of a project and enabling clients to focus on operating a successful business within a sustainable environment.”*

## Tanja Bekker

---

**From:** Raisibe Sekepane <Raisibe.Sekepane@dmr.gov.za>  
**Sent:** 21 December 2015 09:45 AM  
**To:** Tanja Bekker  
**Cc:** Tony Olyn  
**Subject:** RE: Payment of Basic Assessment Fee

Good morning

Please find the banking details for your attention. In future please do not send emails to Mr. Olyn as he is not MEM official. The following officials will be able to assist you where possible,

1. Lesiba Kekana
2. Kgaudi shapo
3. Machalla Ramaboea
4. Eugen Nkatlholang
5. Patricia makhuvhele
6. Patricia Shandukani
7. Vincent Muila
8. Selo Oliphant
9. Livhuwani Malatjie
10. Humbulani Mashau
11. Ndidzu Mavhungu
12. Johannes Nematatani
13. Takalani Khorombi
14. Linda mjemla
15. Deidre kersten
16. Raisibe sekepane

Account Holder : **Department of Mineral Resources ( Kimberley)**  
Name of the Bank : **Absa**  
Acc Number : **40-5916-0637**  
Bank Code : **632005**  
Ref No (13 Digits) : **NCNEMA0223MR-put relevant reference pls.**

---

**From:** Tanja Bekker [mailto:tanja@envirogistics.co.za]  
**Sent:** 21 December 2015 08:49 AM  
**To:** Tony Olyn  
**Cc:** Raisibe Sekepane  
**Subject:** RE: Payment of Basic Assessment Fee  
**Importance:** High

Dear Tony

I am struggling getting advice from the department regarding the submission of the Basic Assessment Application for Beeshoek Iron Ore Mine. SAMRAD, both Kimberley and Pretoria, informed me that the application cannot be submitted via SAMRAD, due to the fact that the age of the mine and that the Mining Right (Converted) does not allow for such a submission. I was advised to submit this application in hard copy and provide SAMRAD Kimberley with an electronic copy as they can upload the file internally.

My problem is that I would like to submit this application in hard copy now, but I need to make the R2000- application fee, and for that I require the banking details.

Is there any possibility that you can assist me in providing the banking details for the Basic Assessment Fee Payment. This is all I need in order to submit the application. I will then courier the application to Kimberley with the proof of payment and our process can commence.

I am looking forward to your response.

Regards  
Tanja

Kind Regards,

**Tanja Bekker**

MSc. Environmental Management  
Certified EAPSA; PrSci. Reg. 400198/09



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Cell: 082 412 1799  
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*"Driven to achieve Environmental Compliance and Excellence throughout the life cycles of a project and enabling clients to focus on operating a successful business within a sustainable environment."*

---

**From:** Tanja Bekker  
**Sent:** 03 December 2015 07:17 AM  
**To:** 'Tony Olyn' <Tony.Olyn@dmr.gov.za>  
**Cc:** Raisibe Sekepane <Raisibe.Sekepane@dmr.gov.za>  
**Subject:** RE: Payment of Basic Assessment Fee

Thank you Tony. I am looking forward to Raisibe's response. We would like to submit the application as soon as possible, but need this information to proceed.

Kind Regards  
Tanja

---

**From:** Tony Olyn [<mailto:Tony.Olyn@dmr.gov.za>]  
**Sent:** 03 December 2015 07:03 AM  
**To:** Tanja Bekker <[tanja@envirogistics.co.za](mailto:tanja@envirogistics.co.za)>  
**Cc:** Raisibe Sekepane <[Raisibe.Sekepane@dmr.gov.za](mailto:Raisibe.Sekepane@dmr.gov.za)>  
**Subject:** RE: Payment of Basic Assessment Fee

Good day  
Raisibe please assist.  
Regards

**Tony Olyn**  
**Dept: Mineral Resources**  
**Records Administrator**  
**Phone:053 807 1705**  
**Fax:0866936426**



---

**From:** [tanja@envirogistics.co.za](mailto:tanja@envirogistics.co.za) [<mailto:tanja@envirogistics.co.za>]  
**Sent:** 02 December 2015 04:29 PM  
**To:** Tony Olyn  
**Subject:** FW: Payment of Basic Assessment Fee  
**Importance:** High

Dear Tony

I hope that you can assist me.

I have tried numerous times to get advice from the DMR Kimberley, as well as the SAMRAD Department in Pretoria on how I can submit a Basic Assessment Application to the Department. According to the DMR Kimberley it must be done on the SAMRAD system, however this system does not provide for Basic Assessment Applications if these are not directly to apply for a Prospecting Right, Mining Right or Mining Permit. This was also confirmed during my discussions with SAMRAD Pretoria.

Our application is for a new storm water dam within an approved Mining Rights area.

I can submit the report in hard copy and also submit a CD to manually load onto the system as instructed by the official dealing with the SAMRAD system in the Kimberley office, however I first have to make the application fee payment. Is the following banking details still relevant:

Banking details:

Bank: ABSA

Branch: 632005

Account number: 40-5916-0637

For the reference number, do I use the mine's existing Mining Right Number?

Can you please assist me in this regard?

Kind Regards  
Tanja Bekker

## Tanja Bekker

MSc. Environmental Management

Certified EAPSA; PrSci. Reg. 400198/09



EnviroGistics

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# Assmang (Pty) Ltd:

## Khumani Iron Ore Mine

Environmental Impact Assessment Authorisation in terms of NEMA Regulations of 2014 (Regulation 983, 984 and 985) (and as amended by Regulation 325, 326 and Regulation 327).

**Project 1: New Return Water Dam 3;**  
**Project 2: New Return Water Pipelines;**  
**Project 3: Amendment of the 2013 Water Use License**

### Report Purpose

FINAL for DMR Consideration

### Report Status

FINAL

### Report Reference

EnviroGistics Ref.: 21819

Departmental Ref.: To be received

Mining Right Ref: NC30/5/1/2/3/2/1/070

### Report Author

Tanja Bekker

*MSc. Environmental Management*

*Certified EAPSA; PrSci. Reg. 400198/09*

**1 October 2018**



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## 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).

### IMPORTANT NOTICE

**Kindly note that:**

1. As from 8 December 2014 (and the subsequent 2017 EIA Regulations amendment), 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 nor licences to the relevant competent authorities as required by the relevant legislation. Upon acceptance of an application for a right or permit in terms of the MPRDA, applicants will be required to provide evidence to the Regional Manager that a water use licence has been applied for.
4. The Regional Manager will respond to the application and provide the reference and correspondence details of the Competent Authority, and in the event that the application for a right or permit is accepted, together with the date by which the relevant environmental reports must be submitted. Notwithstanding anything that may appear to be stated to the contrary in the acceptance letter, the timeframes are in fact aligned and the prescribed timeframes for the submission of documents as regulated by the NEMA regulations must be strictly adhered to.
5. The application must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when each space is filled with typing.
6. The failure to submit complete information as required in this application form may result in the refusal of the application for an environmental authorisation and consequently of the right or permit applied for.
7. This application must be submitted through the SAMRAD online application system of the Department of Mineral Resources under "Other documents to upload".
8. Unless protected by law, all information filled in on this application form will become public information on receipt by the competent authority. Any interested and affected party should and shall be provided with the information contained in this application on request, during any stage of the application process.
9. Please note that an application fee is payable in terms of the National Environmental Management Act and the National Waste Management Act, which fees must be paid upon lodgement of the application. Should the said application fees not be paid as prescribed the application for a right or permit in terms of the Mineral and Petroleum Resources Development Act cannot be considered to have been made in the prescribed manner and the said application for a right or permit will have to be rejected. In this regard the type of applications must be identified in the table below.



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

APPLICATION TYPE	APPLICABLE FEE	Mark with an X where applicable
NEMA S&EIR application on its own	R10 000.00	<b>x</b>
NEMA BAR application on its own	R 2 000.00	
NEMWA S&EIR application on its own	R10 000.00	
NEMWA BAR application on its own	R 2 000.00	
NEMA S&EIR application combined with NEMWA S&EIR application	R 15 000.00	
NEMA BAR application combined with NEMWA BAR application	R 3 000.00	
NEMA S&EIR application combined with NEMWA BAR application	R 11 000.00	

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

This application is for the purposes of an Environmental Impact Assessment Application in terms of the NEMA Regulations of 2014 (Regulation 983, 984 and 985) (and as amended by Regulation 325, 326 and Regulation 327).

## 2 DETAILS OF THE APPLICANT

Project applicant:	Assmang (Pty) Limited		
Registration no (if any):	Assmang (Pty) Limited - Khumani Iron Ore Mine		
Trading name (if any):	1935/007343/06		
Responsible Person, (e.g. Director, CEO, etc.):	Dirk Coetzee		
Contact person:	Dirk Coetzee		
Physical address:	Khumani Iron Ore Mine, Dingleton Road, Kathu		
Postal address:	PRIVATE BAG X 503, KATHU, NORTHERN CAPE		
Postal code:	8446	Cell:	083 459 7580
Telephone:	053 372 8000	Fax:	053 723 8599
E-mail:	<a href="mailto:dirk.coetzee@assmang.co.za">dirk.coetzee@assmang.co.za</a>		

## 3 ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP) INFORMATION

EAP:	<b>EnviroGistics (Pty) Ltd</b>		
Professional affiliation/registration:	Certified member of the Environmental Assessment Practitioners Association of South Africa (October 2013) South African Council of National Scientific Professions (SACNASP: Pr.Sci.Nat. Reg No. 400198/09) Member of IAIA Member of ELA		
Contact person (if different from EAP):	Ms. Tanja Bekker		
Company:	EnviroGistics (Pty) Ltd		
Physical address:	21 Gladiolus Street, Roodekrans, Roodepoort		
Postal address:	PO Box 22014, Helderkruin		
Postal code:	1733	Cell:	+27(0) 82 412 1799
Telephone:	+27(0) 82 412 1799	Fax:	+27(0) 86 551 5233
E-mail:	<a href="mailto:tanja@envirogistics.co.za">tanja@envirogistics.co.za</a>		

Please refer to Appendix 1 for the Curriculum Vitae of the appointed EAP

**4 PROJECT DESCRIPTION**

<p><b>Farm Name:</b></p>	<p><b>Farm Ownership:</b></p> <ul style="list-style-type: none"> <li>☞ King 561, Portion RE</li> <li>☞ Mokaning 260, Portion 1</li> <li>☞ Mokaning 260, Portion 3</li> <li>☞ Parson 564, Portion RE</li> <li>☞ Parson 564, Portion 9 (new registration)</li> <li>☞ Bruce 544. Portion RE</li> </ul> <p>Overall Water Use License (WUL)<sup>1</sup> Project (National Water Act, 1998 Regulation 158 Amendment – amendment to Water Uses previously excluded or errors/amendments required):</p> <ul style="list-style-type: none"> <li>☞ King 561, Portion RE</li> <li>☞ Mokaning 260, Portion 1</li> <li>☞ Mokaning 260, Portion 3</li> <li>☞ Parson 564, Portion RE</li> <li>☞ Bruce 544. Portion RE</li> </ul> <p>New WUL Applications [(Permit 21/2016 issued by the Northern Cape Department of Environment and Nature Conservation (NCDENC))]:</p> <ul style="list-style-type: none"> <li>☞ King 561, Portion RE</li> <li>☞ Mokaning 260, Portion 1</li> <li>☞ Mokaning 260, Portion 3</li> <li>☞ Parson 564, Portion RE</li> <li>☞ Bruce 544. Portion RE</li> </ul> <p>New Infrastructure (Proposed Return Water Dam, Paste Disposal Facility Water Return Pipeline and Return Water Pipeline from the Parson Return Water Dam to the Beneficiation Plant):</p> <ul style="list-style-type: none"> <li>☞ King 561, Portion RE</li> <li>☞ King 561, Portion 2 (crossing of pipeline underneath N14 at existing culvert)</li> <li>☞ Parson 564, Portion 2</li> </ul>
<p><b>Application area (Ha)</b></p>	<p><b>Project 1:</b> <b><i>The area on which the new Return Water Dam will be constructed:</i></b></p> <ul style="list-style-type: none"> <li>☞ King Portion RE: Approximately 2ha on existing disturbed land (no clearance required).</li> </ul> <p><b>Projects 2:</b> <b><i>The area on which the additional Paste Pipeline will be located:</i></b></p> <ul style="list-style-type: none"> <li>☞ King 561, Portion RE</li> <li>☞ King 561, Portion 2 (crossing of pipeline underneath N14 at existing culvert)</li> <li>☞ Parson 564, Portion 2</li> </ul> <p><b><i>The area on which the additional Parson Return Water Dam Pipeline will be located:</i></b></p> <ul style="list-style-type: none"> <li>☞ Parson 564, Portion 2</li> </ul> <p><b><i>The area on which the additional Storage Capacity Facility will be located:</i></b></p> <ul style="list-style-type: none"> <li>☞ King 561, Portion RE</li> </ul> <p><b>Projects 3:</b> <b><i>The area approved under Permit 21/2016, but which still requires a WUL:</i></b></p>

<sup>1</sup> The 2013 WUL is being updated to include new uses and to correct various administrative errors.

	<ul style="list-style-type: none"> <li>☞ Parson Portion RE: Parson Low Grade Stockpile Discard Dump - The expansion of the area from the approved 110.8ha area to the new area of approximately 356.3ha</li> <li>☞ King Portion RE: Dump J – New facility of 48ha</li> <li>☞ Mokaning Portion 1, 3 and King Portion RE: Mokaning Low Grade ROM Stockpile Expansion - Expansion of about 58ha</li> <li>☞ Bruce Portion RE - Bruce Low Grade ROM Stockpile Expansion – expansion of about 75ha</li> </ul> <p><b>No additional clearance is required. The overall Mining Area is about 9 000ha.</b></p>
<b>Magisterial district:</b>	Kuruman
<b>Distance and direction from nearest town</b>	The entrances of Bruce and Parson Mines are respectively 16km and 23km south of Kathu, with the entrance to King Mine approximately 13km to the south of Kathu.
<b>21-digit Surveyor General Code for each farm portion</b>	<p>King 561, Portion RE: C04100000000056100000          King 561, Portion 2: C04100000000056100002          Mokaning 260, Portion 1: C04100000000056000001          Mokaning 260, Portion 3: C04100000000056000003          Parson 564, Portion RE: C04100000000056400000          Parson 564, Portion 2: C04100000000056400002          Bruce 544. Portion RE: C04100000000054400000          Title Deeds attached in Appendix 2.</p>
<b>Locality map</b>	Attached in Appendix 3.
<p><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>	<p><u>Project 1: New Return Water Dam 3</u></p> <p>Khumani intends to construct a new Return Water Dam (“Return Water Dam 3” at a capacity of approximately 49 000m<sup>3</sup>) (details and designs of the facility are not as yet finalized) associated with the existing Paste Disposal Facility. The new dam will be located on Portion 0 of the farm King. The intention of the project is as follows:</p> <ul style="list-style-type: none"> <li>☞ Supernatant and storm water will be pumped from the Paste Disposal Facility compartments to the existing concrete lined silt trap.</li> <li>☞ The silt trap overflows into the existing HDPE lined return water dam (Return Water Dam 1) from where the water is returned to the thickener overflow tank for re-use in the process.</li> <li>☞ Excess storm water will overflow from the Return Water Dam 1 to the existing Return Water Dam 2.</li> <li>☞ In turn, excess storm water will overflow from the existing Return Water Dam 2 to the new Return Water Dam 3.</li> <li>☞ Water will then be pumped from the Return Water Dam 3 to the Return Water Dam 1 once the water level in the Return Water Dam 1 and 2 has dropped significantly.</li> <li>☞ The intention is to operate the Return Water Dams dry and to maintain the level in the Return Water Dam at less than 30%.</li> </ul> <p>The new Return Water Dam 3 will have a spillway that will divert overflow to the Paste Disposal Facility Compartment 3B in case of an emergency. The design intent is not to utilise this spillway more than once in 50 years.</p> <p><u>Project 2 &amp; 3: New Infrastructure</u></p> <p>In addition to this the mine will also establish a second pipeline from the King Plant to the Parson Beneficiation Plant to transport the Paste water to</p>

and from the plants. The pipeline will be routed from the Paste Disposal Return Water Tank located on the farm King to the Beneficiation Plant Thickener located on the farm Parson. The volume to be pumped through the pipeline is planned to be approximately 375l/s.

Another pipeline of approximately 3km is planned from the Parson Return Water Dam (currently called the Storm Water Dam) which will return water back to the plant for reuse. The design of the pipeline is currently not final, however it is anticipated that the throughput will be about 100m<sup>3</sup>/hr, which will amount to about 1 700l/s when water is present in this facility.

A new water containment facility is planned at the King Plant area to supply the mining operations. Currently water is being supplied via the Parsons storage facilities, which in periods hampers capacities, when water scarcity arise in the area. With a new storage facility at the King operation, Khumani can store water for this mining operation specific and allow for buffer capacities in dry events. The capacity of the facility and the design of the facility are as yet not available, but will be less than 50 000m<sup>3</sup>. Should clearance be required this will also be less than 1 ha of indigenous vegetation.

Project 3: Water Use License (WUL) amendment

Khumani intends to amend the existing WUL to correct various administrative errors, as well as to include water uses associated with the 2016 Environmental Authorization (Permit 21/2016) (see Appendix 5). In addition to this, a water optimisation study is being undertaken by Geotail. Based on the outcomes of the current Hydrological Studies (Water Balance and Storm Water Management Study), various other amendments may be required to approved water uses in terms of throughput volume/naming and/or capacity. The amendments to facilities are located on all four (4) farms owned by Khumani.

## 5 ACTIVITIES TO BE AUTHORISED

(Please provide copies of Environmental Authorisations obtained for the same property as **(Appendix 5)**.)

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

### Appendix 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 LISTING NOTICE	WASTE MANAGEMENT AUTHORISATION  (Indicate whether an authorisation is required in terms of the Waste Management Act).  <b>(Mark with an X)</b>
Project 1: Proposed Return Water Dam 3	Approx. 2.7ha	x	<ul style="list-style-type: none"> <li>☞ Government Notice 327, Listing Notice 1:               <ul style="list-style-type: none"> <li>○ Activity 13: "The development of facilities or infrastructure for the off-stream storage of water, including dams and reservoirs, with a combined capacity of 50 000 cubic meters or more,"</li> </ul> </li> <li>☞ Government Notice 325, Listing Notice 2:               <ul style="list-style-type: none"> <li>○ Activity 6: The development of facilities or infrastructure for any process or activity which requires a permit or license or an amended permit or license in terms of national or provincial legislation governing the generation or release of emissions, pollution or effluent. – this activity is triggered as the proposed dam would require approval in terms of a new Water Use (Section 21g) in terms of the National Water Act, 1998 (Act No. 36 of 1998) (NWA).</li> </ul> </li> </ul>	<p>Note: At the current time and with the information available it is not foreseen that a waste license will be required for the Return Water Dam, as this facility will be regarded as a storage facility (transfer point) between the Paste Disposal Facility and Beneficiation Plant. The facility is not considered a lagoon, but will be a constructed dam, which will contain runoff contaminated water (which constitutes waste water by the Department of Environmental Affairs).</p>
<p>Project 2 (new infrastructure): Proposed Pipeline from the Paste Disposal Thickener to the Beneficiation Plant thickener at a volume of approximately 375l/s.</p> <p>Proposed Pipeline from the Parson Return Water Dam to the Beneficiation Plant to improve the commitment of Khumani to reuse water optimally within the water</p>	<p>Paste Disposal Facility Pipeline: Approx. 4 200m (Approx. 375l/s)</p> <p>Parson Return Water Dam Pipeline: Approx. 3 000m (Approx. 1 700l/s)</p>	X	<ul style="list-style-type: none"> <li>☞ Government Notice 327, Listing Notice 1:               <ul style="list-style-type: none"> <li>○ Activity 10: "The development and related operation of infrastructure exceeding 1 000 meters in length for the bulk transportation of sewage, effluent, process water, waste water, return water, industrial discharge or slimes –                   <ul style="list-style-type: none"> <li>(a) with an internal diameter of 0,36 meters or more; or</li> <li>(b) with a peak throughput of 120 liters per second or more; excluding where—</li> <li>(c) such infrastructure is for the bulk transportation of sewage, effluent, process water, waste water, return water, industrial discharge or slimes inside a road reserve or railway line reserve; or (b) where such development will occur within an urban area.</li> <li>(d) Government Notice, Listing Notice 2:</li> </ul> </li> </ul> </li> </ul>	N/A

NAME OF ACTIVITY	Aerial extent of the Activity (Ha or m²)	LISTED ACTIVITY  (Mark with an X where applicable or affected).	APPLICABLE LISTING NOTICE	WASTE MANAGEMENT AUTHORISATION  (Indicate whether an authorisation is required in terms of the Waste Management Act).  <b>(Mark with an X)</b>
<p>circuit. The throughput volume is 1 700/s.</p> <p>A new water containment facility is planned at the King Plant area to supply the mining operations. Currently water is being supplied via the Parsons storage facilities, which in periods hampers capacities, when water scarcity arise in the area. With a new Water Storage Facility at the King operation, Khumani can store water for this mining operation specific and allow for buffer capacities in dry events. The capacity of the facility and the design of the facility are as yet not available, but will be less than 50 000m³. Should clearance be required this will also be less than 1 ha of indigenous vegetation.</p>			<ul style="list-style-type: none"> <li>☞ Government Notice 325, Listing Notice 2 (specific for the new Water Containment Facility):               <ul style="list-style-type: none"> <li>○ Activity 6: The development of facilities or infrastructure for any process or activity which requires a permit or license or an amended permit or license in terms of national or provincial legislation governing the generation or release of emissions, pollution or effluent. – this activity is triggered as the proposed dam would require approval in terms of a new Water Use (Section 21g) in terms of the National Water Act, 1998 (Act No. 36 of 1998) (NWA).</li> </ul> </li> </ul>	
<p>Project 3: The areas approved under approved Environmental Authorisations, such as Permit 21/2016, but which still requires a WUL.</p>	Approx. 430ha	x	<ul style="list-style-type: none"> <li>☞ Government Notice 327, Listing Notice 1:               <ul style="list-style-type: none"> <li>○ Activity 34: “The expansion or changes to existing facilities for any process or activity where such expansion or changes will result in the need for a permit or license or an amended permit or license in terms of national or provincial legislation governing the release of emissions or pollution” (not considered at this time but may be required depending on Department of Water and Sanitation Consultation).</li> </ul> </li> <li>☞ Government Notice, Listing Notice 2:               <ul style="list-style-type: none"> <li>○ Activity 6: The development of facilities or infrastructure for any process or activity which requires a permit or license or an amended permit or license in terms of national or provincial legislation governing the generation or release of emissions, pollution or effluent. – this activity is triggered as the proposed dam would require approval in terms of a new Water Use (Section 21g) in terms of the National Water Act, 1998 (Act No. 36 of 1998) (NWA).</li> </ul> </li> </ul>	<p>Environmental Permit is available. The application was submitted prior to the enactment of the National Environmental Management Waste Act, 2008 (Act No. 59 of 2008) (NEMWA) definitions of Mine Residue Deposits as hazardous waste. The Applicant will apply for a Part 1 Amendment to the approved Permit to obtain an</p>

NAME OF ACTIVITY	Aerial extent of the Activity (Ha or m²)	LISTED ACTIVITY  (Mark with an X where applicable or affected).	APPLICABLE LISTING NOTICE	WASTE MANAGEMENT AUTHORISATION  (Indicate whether an authorisation is required in terms of the Waste Management Act).  <b>(Mark with an X)</b>
				Integrated Environmental Authorisation.
Project 3: Regulation 158 amendment for changes and corrections to the approved WUL.	N/A – overall farm portion of about 9000ha, no new construction areas.	x	A new Water Balance and Storm Water Assessment is being completed by the mine which will be included into the Scoping Phase. These studies may identify the need to apply for amendments to existing approved Water Uses and therefore the following activity has been included: ☞ Government Notice 327, Listing Notice 1: Activity 34: “The expansion or changes to existing facilities for any process or activity where such expansion or changes will result in the need for a permit or license or an amended permit or license in terms of national or provincial legislation governing the release of emissions or pollution” (not considered at this time, but may be required depending on Department of Water and Sanitation Consultation).	-

*Please note that the activities provided is based on the best available information. During the EIA Reporting process, these activities may be refined.*



## 6 PUBLIC PARTICIPATION

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

The Public Participation Process proposed will be undertaken in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998) (NEMA) Regulations (2017). The process will include, but is not limited to, the following:

- Notification of all landowners and neighbouring owners;
- Notification of all stakeholders who registered for the project consultation process;
- Placement of one advertisement in a local or regional newspaper (such as the Diamond Fields Advertiser);
- Placement of A2 Site notices around the site;
- Distribution of a Background Information Document, providing Stakeholders with an outline of the proposed project and how they can become involve in the consultation process;
- Compilation of an Issues and Response Document; and
- Review of the draft and final Basic Assessment Report and Environmental Report.

### 6.1 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?	N/A	-
Will recipients of land claims in respect of the area be consulted?	N/A	-
Will the landowners or lawful occupiers of neighbouring properties been identified?	X	-
Will the local municipality be consulted?	X	-
Will the Authority responsible for power lines within 100 metres of the area be consulted?	X	-
Will Authorities responsible for public roads or railway lines within 100 metres of the area applied for be consulted?	X	-
Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? (Specify)	X	-
Will the Provincial Department responsible for the environment be consulted?	X	-
Will all of the parties identified above be provided with a description of the proposed mining /prospecting operation as referred above? <b>(Please take note that this project does not involve any mining or prospecting activities, but only additional listed activities within a Mining Rights Area).</b>	X (parties will be informed of the proposed project)	-
Will all the parties identified above be requested in writing to provide information as to how their interests (whether it be socio-economic, cultural, heritage or environmental) will be affected by the proposed mining project?	X	-
Other, Specify	No additional parties will be consulted, unless specifically registered as part of the notification process. Note that the only additional activity on the site, which has not been subjected to stakeholder consultation is the proposed Return Water Dam 3. All other activities are approved in terms of the MPRDA and/or NEMA.	

### 6.1.2 Details of the Engagement Process to be followed

<p>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 an Appendix to the EIA Report</p>	<p><b>Identification of Stakeholders</b> The mine has a long standing relationship with surrounding stakeholders and farmers. This database will be utilised as the first point of access.</p> <p>The existing stakeholder consultation database will be used for the purposes of the consultation process.</p> <p>Other Interested and Affected Parties (I&amp;APs) will include Organs of State, who have jurisdiction over, or who might have an interest in the proposed protecting activities (such as the Department of Water &amp; Sanitation), adjacent and other landowners, non-governmental organisations and other organisations and / private persons.</p> <p>Adjacent and non-adjacent landowners will be identified through the review of property databases and deed searches, natural person(s) contact databases, and expanded through queries and recommendations made by identified stakeholders and general internet based searches.</p> <p>Newspaper Advertisements will be placed in the relevant newspapers inviting comments by interested and affected parties and calling for registration to be included in the list of stakeholders who will receive a copy of the Environmental Management Plan for review and comment. It is recommended that an advert be placed in a local newspaper, such as the GHAAP or Kathu Gazette). Adverts, site notices and Background Information Documents will be made available in both English and Afrikaans.</p> <p><b>Documentation for Review and Comment</b> Based on the notification of identified stakeholders and in response to the advertisements, stakeholders will review and comment on :</p> <ul style="list-style-type: none"> <li>(a) A Background Information Document (BID) which will provide stakeholders with an overview of the proposed prospecting activities, the objectives and details of the stakeholder consultation process</li> <li>(b) An overview of the baseline socio-economic and environmental conditions report will be distributed and stakeholders will be requested to provide further information and feedback on the information contained therein</li> <li>(c) The Draft EIA and EMPr will be made available for review by stakeholder during the consultation process.</li> </ul> <p>Government departments (organs of state) will be provided with a hard copy of the Draft Reports regardless of registration.</p> <p><b>Public and / or key stakeholder meetings</b> Due to the nature of the project, i.e. located within the exiting mining rights area, and no clearance required) it is not foreseen that any stakeholder meetings would be required. Should the stakeholders identify the need for such a meeting this will be considered.</p> <p><b>Addressing Concerns and Issues and Response Report</b></p>
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	<p>Comments and concerns will be used to verify state of the environment and socio economic and environmental conditions and to identify risk and impacts and mitigation measures.</p> <p>Issue and response report will be maintained and distributed to all for review to ensure all stakeholder comment are addressed.</p> <p>Proof of all correspondence and notification will be provided to the Department (Department of Mineral Resources) as part of the final Reports.</p>
<p><b>Information to be provided to Interested and Affected Parties.</b></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:</b> Contact details of the EAP; Information on how to register as I&amp;APs and form part of the consultation process.</p>
<p><b>Information to be required from Interested and Affected Parties.</b></p>	<p><b>Compulsory</b></p> <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 site to make proposals as to how and to what standard the impacts on site 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>
	<p><b>Other, Specify:</b> The Stakeholders will be provided with the contact details of the EAP in order to raise any comments, concerns and/or suggestions.</p>

## 7 DESCRIPTION OF THE ASSESSMENT PROCESS TO BE UNDERTAKEN

ITEM	DESCRIPTION
<p><b>Environmental attributes. (Describe how the Environmental attributes associated with the development footprint will be determined.)</b></p>	<p><b>Desktop Assessments:</b> All possible environmental databases will be utilised to define the environmental attributes. This will include the utilisation of the National ENPAT data, SANBI Biodiversity Database, data from the municipal Strategic Development Framework and the Integrated Development Plan. In addition to this, and with the availability of past specialist studies for this area, all available specialist investigations for this area will be consulted to discuss the nature of environmental attributes in this area.</p> <p><b>Specialist Resources:</b> A Storm Water Management Plan will be submitted with the EIA Reports, which will inform the capacity requirements of the proposed Return Water Dam 3 and whether any of the existing facility may require amendments.</p>

	<p>No other specialist studies are foreseen to be required at this time as no clearance or new areas will be disturbed.</p>
<p><b>Identification of impacts and risks. (Describe the process that will be used to identify impacts and risks.)</b></p>	<p>Impacts and risks will be identified through and assessment of the Environmental Attributes as discussed above, this will further be informed by:</p> <ul style="list-style-type: none"> <li>☞ Specialist investigation (mentioned above);</li> <li>☞ The expertise of the EAP, who has been involved in various similar projects;</li> <li>☞ The input of registered Stakeholders; and</li> <li>☞ The input and comments of regulatory authorities and NGOs.</li> </ul>
<p><b>Consideration of alternatives. (Describe how alternatives, and in particular the alternatives to the proposed site layout and possible alternative methods or technology to be applied will be determined.)</b></p>	<p>“Alternatives”, in relation to a proposed activity, means different means of meeting the general purposes and requirements of the activity, which may include alternatives to –</p> <ul style="list-style-type: none"> <li>☞ the property on which, or location where, it is proposed to undertake the activity;</li> <li>☞ the type of activity to be undertaken;</li> <li>☞ the design or layout of the activity;</li> <li>☞ the technology to be used in the activity;</li> <li>☞ the operational aspects of the activity; and</li> <li>☞ the option of not implementing the activity.</li> </ul> <p>The NEMA prescribes that the procedures for the investigation, assessment and communication of the potential consequences or impacts of activities on the environment must, inter alia, with respect to every application for environmental authorisation –</p> <ul style="list-style-type: none"> <li>☞ ensure that the general objectives of integrated environmental management laid down in NEMA and the National Environmental Management Principles set out in NEMA are taken into account; and</li> <li>☞ include an investigation of the potential consequences or impacts of the alternatives to the activity on the environment and assessment of the significance of those potential consequences or impacts, including the option of not implementing the activity<sup>18</sup>.</li> </ul> <p>The Scoping Report will therefore contain a description of any feasible and reasonable alternatives that have been identified, including a description and comparative assessment of the advantages and disadvantages that the proposed activity and alternatives will have on the environment and on the community that may be affected by the activity. The following alternative will be considered during the EMP process:</p> <ul style="list-style-type: none"> <li>☞ Location and capacity of the new Return Water Dam 3;</li> <li>☞ Scheduling and Timing of the activities (i.e. wet and dry seasons);</li> <li>☞ No-Go Option.</li> </ul>
<p><b>Process to assess and rank impacts. (Describe the process to be undertaken to identify, assess and rank the impacts and risks each individual activity.)</b></p>	<p>The various environmental impacts and benefits of this project will be discussed in terms of impact status, extent, duration, probability, and intensity. Impact significant is regarded as the sum of the impact extent, duration, probability and intensity and a numerical rating system will be applied to evaluate impact significance; therefore an impact magnitude and significance rating is applied to rate each identified impact in terms of its overall magnitude and significance.</p> <p>In order to adequately assess and evaluate the impacts and benefits associated with the project it will be necessary to develop a methodology that would scientifically achieve this and to reduce the subjectivity involved in making such evaluations. To enable informed decision-making it is necessary to assess all legal requirements and clearly defined criteria in order to accurately determine the significance of the predicted impact or benefit on the surrounding natural and social environment.</p>

	<p>The nature or status of the impact is determined by the conditions of the environment prior to construction and operation. A discussion on the nature of the impact will include a description of what causes the effect, what will be affected and how it will be affected. The nature of the impact can be described as negative, positive or neutral.</p> <p style="text-align: center;"><b>Status of Impact</b></p> <table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 15%;">RATING</th> <th style="width: 60%;">DESCRIPTION</th> <th style="width: 25%;">QUANTITATIVE RATING</th> </tr> </thead> <tbody> <tr> <td><b>Positive</b></td> <td>A benefit to the receiving environment.</td> <td><b>P</b></td> </tr> <tr> <td><b>Neutral</b></td> <td>No cost or benefit to the receiving environment.</td> <td>-</td> </tr> <tr> <td><b>Negative</b></td> <td>A cost to the receiving environment.</td> <td><b>N</b></td> </tr> </tbody> </table> <p style="text-align: center;"><b>Impact Extent</b></p> <p>The extent of an impact is considered as to whether impacts are either limited in extent or if it affects a wide area or group of people. Impact extent can be site specific (within the boundaries of the development area), local, regional or national and/or international.</p> <table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 15%;">RATING</th> <th style="width: 60%;">DESCRIPTION</th> <th style="width: 25%;">QUANTITATIVE RATING</th> </tr> </thead> <tbody> <tr> <td><b>Low</b></td> <td>Site Specific; Occurs within the site boundary.</td> <td>1</td> </tr> <tr> <td><b>Medium</b></td> <td>Local; Extends beyond the site boundary; Affects the immediate surrounding environment (i.e. up to 5 km from the Project Site boundary).</td> <td>2</td> </tr> <tr> <td><b>High</b></td> <td>Regional; Extends far beyond the site boundary; Widespread effect (i.e. 5 km and more from the Project Site boundary).</td> <td>3</td> </tr> <tr> <td><b>Very High</b></td> <td>National and/or international; Extends far beyond the site boundary; Widespread effect.</td> <td>4</td> </tr> </tbody> </table> <p style="text-align: center;"><b>Impact Duration</b></p> <p>The duration of the impact refers to the time scale of the impact or benefit.</p> <table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 15%;">RATING</th> <th style="width: 60%;">DESCRIPTION</th> <th style="width: 25%;">QUANTITATIVE RATING</th> </tr> </thead> <tbody> <tr> <td><b>Low</b></td> <td>Short term; Quickly reversible; Less than the project lifespan; 0 – 5 years.</td> <td>1</td> </tr> <tr> <td><b>Medium</b></td> <td>Medium term; Reversible over time; Approximate lifespan of the project; 5 – 17 years.</td> <td>2</td> </tr> <tr> <td><b>High</b></td> <td>Long term; Permanent; Extends beyond the decommissioning phase; &gt;17 years.</td> <td>3</td> </tr> </tbody> </table>	RATING	DESCRIPTION	QUANTITATIVE RATING	<b>Positive</b>	A benefit to the receiving environment.	<b>P</b>	<b>Neutral</b>	No cost or benefit to the receiving environment.	-	<b>Negative</b>	A cost to the receiving environment.	<b>N</b>	RATING	DESCRIPTION	QUANTITATIVE RATING	<b>Low</b>	Site Specific; Occurs within the site boundary.	1	<b>Medium</b>	Local; Extends beyond the site boundary; Affects the immediate surrounding environment (i.e. up to 5 km from the Project Site boundary).	2	<b>High</b>	Regional; Extends far beyond the site boundary; Widespread effect (i.e. 5 km and more from the Project Site boundary).	3	<b>Very High</b>	National and/or international; Extends far beyond the site boundary; Widespread effect.	4	RATING	DESCRIPTION	QUANTITATIVE RATING	<b>Low</b>	Short term; Quickly reversible; Less than the project lifespan; 0 – 5 years.	1	<b>Medium</b>	Medium term; Reversible over time; Approximate lifespan of the project; 5 – 17 years.	2	<b>High</b>	Long term; Permanent; Extends beyond the decommissioning phase; >17 years.	3
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The probability of the impact describes the likelihood of the impact actually occurring		
<b>RATING</b>	<b>DESCRIPTION</b>	<b>QUANTITATIVE RATING</b>
<b>Improbable</b>	Possibility of the impact materialising is negligible; Chance of occurrence <10%.	1
<b>Probable</b>	Possibility that the impact will materialise is likely; Chance of occurrence 10 – 49.9%.	2
<b>Highly Probable</b>	It is expected that the impact will occur; Chance of occurrence 50 – 90%.	3
<b>Definite</b>	Impact will occur regardless of any prevention measures; Chance of occurrence >90%.	4
<b>Definite and Cumulative</b>	Impact will occur regardless of any prevention measures; Chance of occurrence >90% and is likely to result in in cumulative impacts	5
<b>Impact Intensity</b>		
The intensity of the impact is determined to quantify the magnitude of the impacts and benefits associated with the proposed project.		
<b>RATING</b>	<b>DESCRIPTION</b>	<b>QUANTITATIVE RATING</b>
<b>Maximum Benefit</b>	Where natural, cultural and / or social functions or processes are positively affected resulting in the maximum possible and permanent benefit.	+ 5
<b>Significant Benefit</b>	Where natural, cultural and / or social functions or processes are altered to the extent that it will result in temporary but significant benefit.	+ 4
<b>Beneficial</b>	Where the affected environment is altered but natural, cultural and / or social functions or processes continue, albeit in a modified, beneficial way.	+ 3
<b>Minor Benefit</b>	Where the impact affects the environment in such a way that natural, cultural and / or social functions or processes are only marginally benefited.	+ 2
<b>Negligible Benefit</b>	Where the impact affects the environment in such a way that natural, cultural and / or social functions or processes are negligibly benefited.	+ 1
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	Low	Impacts is of a low order and therefore likely to have a limited effect. Alternative means of achieving this benefit are likely to be easier, cheaper, more effective and less time-consuming.	+ 1 -- 5																																												
No Impact	No Impact	Zero impact.	0																																												
Negative	Low	Impact is of a low order and therefore likely to have little real effect. In the case of adverse impacts, mitigation is either easily achieved or little will be required, or both. Social, cultural, and economic activities of communities can continue unchanged.	- 1 -- 5																																												
	Medium	Impact is real, but not substantial in relation to other impacts that might take effect within the bounds of those that could occur. In the case of adverse impacts, mitigation is both feasible and fairly possible. Social, cultural and economic activities of communities are changed but can be continued (albeit in a different form). Modification of the project design or alternative action may be required.	- 6 -- 11																																												
	High	Of the highest order possible within the bounds of impacts that could occur. In the case of adverse impacts, there is no possible mitigation that could offset the impact, or mitigation is difficult, expensive, time-consuming or a combination of these. Social, cultural and economic activities of communities are disrupted to such an extent that these come to a halt.	- 12 -- 16																																												
<b>Contribution of specialist reports (Describe how specialist reports,</b>	<p><b>Desktop Assessments:</b></p> <p>All possible environmental databases will be utilised to define the environmental attributes. This will include the utilisation of the National ENPAT data, SANBI Biodiversity Database, data from the municipal Strategic Development Framework</p>																																														



<p><b>if required, will be taken into consideration and inform the impact identification, assessment and remediation process.)</b></p>	<p>and the Integrated Development Plan. In addition to this, and with the availability of past specialist studies for this area, all available specialist investigations for this area will be consulted to discuss the nature of environmental attributes in this area.</p> <p><b>Specialist Resources:</b> A hydrological study is currently being undertaken which will inform the EIA process. The Storm Water Management Plan and Water Balance will be submitted with the EIA Reports, which will inform the capacity requirements of the proposed Return Water Dam 3 and whether any of the existing facility may require amendments.</p> <p>No other specialist studies are foreseen to be required at this time as no clearance or new areas will be disturbed.</p>
<p><b>Determination of impact management objectives and outcomes. (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.)</b></p>	<p>Please refer to the earlier sections in which the detailed methodology for the assessment of impacts is described in detail.</p> <p>The impact ratings will be undertaken for each activity within the subsequent phases of the Prospecting Work Programme.</p> <p>The EMP and rehabilitation plan will be developed on the bases that the activities and the subsequent rehabilitated areas are safe, stable, non-polluting and are able to support a self-sustaining ecosystem similar to surrounding natural environment. The current approved Environmental Authorisations will be consulted to ensure that these legal requirements also form part of the conditions of this project where relevant.</p>

## 8 OTHER AUTHORISATIONS REQUIRED

It should be noted that the provided information in this section is based on the best information available to the EAP at the time of this application. This will be refined during the EMP phases.

LEGISLATION	Mark with an X where applicable			
	AUTHORISATION REQUIRED		APPLICATION SUBMITTED	
	YES	NO	YES	NO
<b>SEMA's</b>				
National Environmental Management: Air Quality Act		x		x
National Environmental Management: Biodiversity Act		x		x
National Environmental Management: Integrated Coastal Management Act		x		x
National Environmental Management: Protected Areas Act		x		x
National Environmental Management: Waste Act				x
<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 6**.

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



## 9 DRAFT EMPR

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

ACTIVITIES	PHASE	SIZE AND SCALE (of Disturbance)	TYPICAL MITIGATION MEASURES	COMPLIANCE WITH STANDARDS
All Activities	Planning Phase	<p>Within the overall mining footprint, but including the:</p> <ul style="list-style-type: none"> <li>☛ Return Water Dam 3: 2ha</li> <li>☛ Parson Low Grade Stockpile Discard Dump - The expansion of the area from the approved area to the new area will require a change from 110.8ha to approximately 356.3ha</li> <li>☛ Dump J – New facility of 48ha</li> <li>☛ Mokaning Low Grade ROM Stockpile Expansion - Expansion of about 58ha</li> <li>☛ Bruce Low Grade ROM Stockpile Expansion – expansion of about 75ha</li> </ul> <p>Any other identified during the WUL Process.</p>	<ul style="list-style-type: none"> <li>☛ A legal assessment of all activities and future planned activities must be undertaken annually to ensure that all activities are authorised.</li> <li>☛ All legally appointed personnel responsible or involved in water use activities and activities associated with the Environmental Authorisations on site must receive training on the requirements of the Environmental Authorisations and relevant Environmental Legislation.</li> <li>☛ Quarterly internal audits must be undertaken during the construction phase, where after biannual (twice a year) internal audits can be undertaken (after construction), on the lawful implementation of the Environmental Authorisation.</li> <li>☛ A copy of the Water Use Licence (WUL) must be available on site at all times.</li> <li>☛ Draw up a procedure clearly reflecting the method and phases of construction of Mining Infrastructure (such as the stockpiles and Return Water Dams).</li> <li>☛ Develop Code of Practices, including construction, operational and closure requirements for all Return Water Dams and Mine Residue Deposits.</li> <li>☛ Required geotechnical investigations must be undertaken for the Return Water Dam 3.</li> </ul>	<p>Approval in terms of the MPRDA. Compliance with Closure Requirements.</p> <p>The implementation of the management measures will give effect to the NEMA duty of care principle. It will further ensure that activities are undertaken in an environmentally sound manner with the least amount of environmental and social disturbance</p>
Construction of the Return Water Dam 3	Construction Phase	Approx. 2ha (capacity of about 49 000m <sup>3</sup> to 100 000m <sup>3</sup> )	<ul style="list-style-type: none"> <li>☛ Activities should be restricted to the existing cleared areas associated with the Paste Disposal Facility.</li> <li>☛ Designated project areas should be demarcated.</li> <li>☛ Induction should be provided to all staff and contractors on the presence of sensitive or protected species and the management of these.</li> <li>☛ Storm water systems must be designed to allow for the dirty water not to leave the road surfaces as far as practically possible.</li> <li>☛ Erosion control measures should be in place on all stockpiles and road systems.</li> <li>☛ Dust suppression should be undertaken during the construction phase.</li> </ul>	<p>The implementation of the management measures will give effect to the NEMA duty of care principle. It will further ensure that activities are undertaken in an environmentally sound manner with the least amount of environmental and social disturbance</p>
Operation of the Return Water Dam 3	Operational Phase	2ha	<ul style="list-style-type: none"> <li>☛ All water reticulation systems will be well maintained.</li> <li>☛ Maintenance plans will be available on site.</li> <li>☛ Machinery and vehicles will be well maintained to prevent excessive noise and to comply with national and provincial regulations.</li> <li>☛ The Return Water Dams (existing) will be operated with a 30% level or less as far as practically possible.</li> <li>☛ Return Water Dams will be operated to be empty as far as practically possible.</li> <li>☛ The overall Paste Disposal Facility (including the Return Water Dam and Return Water Dams) will be operated under the supervision of a Registered Engineer.</li> <li>☛ Emergency preparedness plans must be put in place.</li> <li>☛ Annual updates of the Water Balance of the mine will be undertaken.</li> <li>☛ Annual audit of GN704 compliance will be undertaken.</li> </ul>	

ACTIVITIES	PHASE	SIZE AND SCALE (of Disturbance)	TYPICAL MITIGATION MEASURES	COMPLIANCE WITH STANDARDS
			<ul style="list-style-type: none"> <li>☞ Annual engineering audits will be undertaken to assess compliance with Code of Practices of the Mine Residue Deposits/Stockpiles or Return Water Dams.</li> <li>☞ Water will be reused on site as far as practically possible.</li> <li>☞ Erosion control measures should be in place on all stockpiles and dam walls.</li> <li>☞ Water monitoring in terms of surface water (water contained in the dam, if any) and groundwater should be undertaken in line with the approved WUL.</li> <li>☞ Stability of the underlying geology should be monitored as the area is characterised by dolomitic underlying geology.</li> </ul>	
Closure of the Return Water Dam 3	Decommissioning Phase	2ha	<ul style="list-style-type: none"> <li>☞ All storm water management measures will remain up until such time as surrounding areas have been rehabilitated and are considered to be "clean".</li> <li>☞ All building material will be disposed of at licensed facilities or in terms of licensed/approved activities.</li> <li>☞ No dirty water will be discharged without the necessary approvals from the DWS.</li> <li>☞ The areas will be sloped to ensure the site to be free-draining as far as practically possible.</li> </ul>	The implementation of the management measures will give effect to the NEMA duty of care principle. It will further ensure that activities are undertaken in an environmentally sound manner with the least amount of environmental and social disturbance
Construction of the Pipelines and Storage Facilities	Construction Phase	Approximately 4 200m	<ul style="list-style-type: none"> <li>☞ Activities should be restricted to the existing cleared areas associated with the existing linear infrastructure.</li> <li>☞ Designated project areas should be demarcated.</li> <li>☞ Induction should be provided to all staff and contractors on the presence of sensitive or protected species and the management of these.</li> <li>☞ All construction material should be removed once construction is completed.</li> </ul>	The implementation of the management measures will give effect to the NEMA duty of care principle. It will further ensure that activities are undertaken in an environmentally sound manner with the least amount of environmental and social disturbance
Operation of the Pipelines and Storage Facilities	Operational Phase	Approximately 4 200m at a throughput of approximately 375l/s	<ul style="list-style-type: none"> <li>☞ Flow meters will be put in place.</li> <li>☞ Regular (at least twice a week) inspections will be undertaken along the pipeline routes to investigate the integrity of the pipelines.</li> <li>☞ Spills will be cleaned up as soon as detected.</li> <li>☞ Waste from the pipeline will be removed to licensed disposal sites.</li> <li>☞ All water reticulation systems will be well maintained.</li> <li>☞ Maintenance plans will be available on site.</li> <li>☞ Machinery and vehicles will be well maintained to prevent excessive noise and to comply with national and provincial regulations.</li> <li>☞ Emergency preparedness plans must be put in place for significant spills.</li> <li>☞ Annual updates of the Water Balance of the mine will be undertaken.</li> <li>☞ Water will be reused on site as far as practically possible.</li> <li>☞ Erosion control measures should be in place on all stockpiles and dam walls.</li> </ul>	The implementation of the management measures will give effect to the NEMA duty of care principle. It will further ensure that activities are undertaken in an environmentally sound manner with the least amount of environmental and social disturbance
Closure of the Pipelines and Storage Facilities	Decommissioning Phase	2ha	<ul style="list-style-type: none"> <li>☞ Containment measures will be implemented along all dismantling areas to manage potential spills.</li> <li>☞ All spills during the dismantling process will be removed regularly to licensed sites.</li> <li>☞ Building rubble and steel will be disposed of in terms of duty of care principles.</li> <li>☞ The sites will be ripped.</li> </ul>	The implementation of the management measures will give effect to the NEMA duty of care principle. It will further ensure that activities are undertaken in an environmentally sound manner with the least amount of environmental and social disturbance

KHUMANI IRON ORE MINE NEW RETURN WATER DAM AND AMENDMENT TO WUL  
Departmental Ref: To be Received  
Project Ref: 21522 & 21819  
Version: FINAL

ACTIVITIES	PHASE	SIZE AND SCALE (of Disturbance)	TYPICAL MITIGATION MEASURES	COMPLIANCE WITH STANDARDS
			<ul style="list-style-type: none"> <li>☛ Allowance will be given for the self-succession of vegetation. If this is not successful after the first rainy season, seeding will be initiated.</li> </ul>	the least amount of environmental and social disturbance
All approved activities in terms of the NEMA or MPRDA, but which requires a Water Use License and therefore triggers the NEMA listing notices.	All	General Mine Area	<ul style="list-style-type: none"> <li>☛ Operate in terms of the approved Environmental Authorisations and Environmental Management Programme conditions.</li> <li>☛ Undertake annual audits to assess and review compliance.</li> </ul>	Compliance with Environmental Authorisations. Compliance with WUL requirements.

## 10 CLOSURE PLAN

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

<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><b>Desktop Assessments:</b> All possible environmental databases will be utilised to define the environmental attributes. This will include the utilisation of the National ENPAT data, SANBI Biodiversity Database, data from the municipal Strategic Development Framework and the Integrated Development Plan.</p> <p><b>Existing Closure Commitments:</b> The mine has an approved EMP. The Return Water Dam and associated Infrastructure will be follow already approved measure, in addition to those stipulated in the new Licence.</p> <p><b>Stakeholders:</b> A detailed stakeholder consultation process in line with the NEMA requirements will be undertaken. Stakeholders will be presented with the opportunity to review the draft and final environmental reports. The comments received will be incorporated in the design of the management measures.</p>
<p><b>Closure objectives</b> Describe the closure objectives and the extent to which they will be aligned to the baseline environment</p>	<p>The rehabilitation plan will be developed on the bases that the rehabilitated areas are safe, stable, non-polluting and are able to support a self-sustaining ecosystem similar to surrounding natural environment. To ensure that the rehabilitation plan is aligned with the closure objective, a high level risk assessment of the components will be undertaken to establish the potential risks associated therewith.</p> <p>The closure objectives will be to:</p> <ul style="list-style-type: none"> <li>➤ To ensure that the plan is in line with already approved measures as presented in the approved WUL and EMP.</li> <li>➤ Remove and / or rehabilitate all pollution and pollution sources such as waste materials and spills;</li> <li>➤ To establish rehabilitated area which is not subject to soil erosion which may result in the loss of soil, degradation of the environment and cause pollution of surface water resources; and</li> <li>➤ Restore disturbed area and re-vegetate these areas with grass species naturally occurring in the area to restore the ecological function of such areas as far as is practicable.</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>	<p><b>Overall Project Area for new activities not previously approved in terms of and Environmental Authorisation:</b> 2ha, which is about 0.02ha of the overall mining area.</p> <p>The mine may still continue for a period in excess of 30 years. The infrastructure in question will tie into the overall mine closure and rehabilitation plan. As stated above, due to the nature of the activities, and the fact that these activities will not result in the significant alteration of the environment, the rehabilitation plan will be implemented with the aim of returning the site to the mines' overall closure objective. Infrastructure will only be removed once the mine enters the closure phase.</p> <p>For this reason the objectives associated with the proposed activities will involve:</p> <ul style="list-style-type: none"> <li>➤ Removal of steel structures;</li> <li>➤ Removal of concrete structure;</li> <li>➤ Removal of Ripping of compacted areas;</li> <li>➤ Shaping of the land to be free draining.</li> </ul>
<p><b>Rehabilitation Cost</b></p>	<p>The rehabilitation cost will be undertaken in line with the Regulations pertaining to the financial provision for the rehabilitation, closure and past closure under the NEMA.</p>

<p>Describe how the rehabilitation cost will be determined and provide a preliminary estimate thereof</p>	<p>In order to calculate the financial provision, it must be noted that the proposed Return Water Dam 3 is located on the footprint boundary of the Paste Disposal Facility and will be rehabilitated along with the overall facility. For this reason provision will only be made for Rip and Shape, as well as Fill from surrounding Waste Rock.</p> <table border="1" data-bbox="419 342 1447 667"> <thead> <tr> <th colspan="5"><b>Rehabilitation of Storm Water Dam and the Pipeline</b></th> </tr> </thead> <tbody> <tr> <td>Rip and shape remaining disturbed surfaces</td> <td>m<sup>2</sup></td> <td>20000,00</td> <td>R 3,62</td> <td>R 72 400,00</td> </tr> <tr> <td>Cut to fill from waste rock dump</td> <td>m<sup>3</sup></td> <td>10000,00</td> <td>R 26,88</td> <td>R 268 800,00</td> </tr> <tr> <td>Dismantling of pipeline within existing disturbed area</td> <td>m</td> <td>7200,00</td> <td>R 51,70</td> <td>R 372 240,00</td> </tr> <tr> <td>Water Storage Facility (to be finalised)</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Subtotal</td> <td>R 713 440,00</td> </tr> <tr> <th colspan="5"><b>Management and Administration</b></th> </tr> <tr> <td>Preliminary &amp; General (6%) - as part of the overall financial provision P&amp;Gs</td> <td></td> <td></td> <td></td> <td>R 42 806,40</td> </tr> <tr> <td>Contingency (10%)</td> <td></td> <td></td> <td></td> <td>R 71 344,00</td> </tr> <tr> <td>Health &amp; Safety</td> <td></td> <td></td> <td></td> <td>R 14 268,80</td> </tr> <tr> <td></td> <td></td> <td></td> <td><b>Total (ZAR)</b></td> <td><b>R 841 859,20</b></td> </tr> </tbody> </table> <p>A Sub Total 1 Amount of approximately R 841 859.20 (excluding VAT, P&amp;Gs and Contingencies) is assumed at this stage, based on the rates utilised in the 2017/2018 Khumani Closure Cost Estimation. Note this calculation is preliminary and does not consider the Water Storage Facility as the details thereof is still not finalised.</p>	<b>Rehabilitation of Storm Water Dam and the Pipeline</b>					Rip and shape remaining disturbed surfaces	m <sup>2</sup>	20000,00	R 3,62	R 72 400,00	Cut to fill from waste rock dump	m <sup>3</sup>	10000,00	R 26,88	R 268 800,00	Dismantling of pipeline within existing disturbed area	m	7200,00	R 51,70	R 372 240,00	Water Storage Facility (to be finalised)								Subtotal	R 713 440,00	<b>Management and Administration</b>					Preliminary & General (6%) - as part of the overall financial provision P&Gs				R 42 806,40	Contingency (10%)				R 71 344,00	Health & Safety				R 14 268,80				<b>Total (ZAR)</b>	<b>R 841 859,20</b>
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<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>As stated above, due to the nature of the activities, and the fact that these activities will not result in the significant alteration of the environment, the rehabilitation plan will be implemented with the aim of returning the site to the mines' overall closure objective. Infrastructure will only be removed once the mine enters the closure phase.</p> <p>For this reason the objectives associated with the proposed activities will involve:</p> <ul style="list-style-type: none"> <li>➤ Removal of steel structures;</li> <li>➤ Removal of concrete structure;</li> <li>➤ Removal of Ripping of compacted areas;</li> <li>➤ Shaping of the land to be free draining.</li> </ul>																																																							

## 11 PROOF OF APPLICATION FEE

Appendix 7 provides the proof of payment of the Application Fee for an EIA Process.

## 12 SIGNATURE BY APPLICANT

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

Name of company (if applicable):

Date:

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## 13 DECLARATION OF THE EAP

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I, Tanja Bekker, declare that –

General declaration:

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

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

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

~~• I have a vested interest in the proposed activity proceeding, such vested interest being:~~

N/A \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
Signature of the environmental assessment practitioner:

\_\_\_\_\_  
Name of company:

\_\_\_\_\_  
Date:

# APPENDICES

**Appendix 1: CV of EAP**

**Appendix 2: Title Deeds**

**Appendix 3: Overall Site Layout**


**Appendix 4: Location of new Return Water Dam 3, Approximate Location of Pipelines, as well as activities approved in terms of Permit 21 of 2016**

**Appendix 5: Environmental Authorisations**


**Appendix 6: Proof of Submissions of Authorisations**

**Appendix 7: Proof of Application Fee Payment**




 <b>Worldwide Express</b> We would love to handle your package		<b>HEAD OFFICE:</b> P O Box 532 Lanseria 1748		<b>Sharecall No.:</b> 0861 203 203 <b>Fax:</b> 0861 114 273 <b>After Hours:</b> 082 823 3254		 <b>OLW5594181</b>																																																											
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<b>Contact Name:</b> Tanja Bekker <b>Contact Phone Number (Very Important):</b> 082 412 1799				<b>To (Contact Name):</b> The Regional Manager <b>Contact Phone Number (Very Important):</b> 053 807 1700																																																													
<b>Company Name:</b> EnviroGistics (Pty) Ltd				<b>Company Name:</b> Department of Mineral Resources Kimberley																																																													
<b>Street Address:</b> 21 Gladiolus Street Roodekrans Roodepoort				<b>Exact Street Address:</b> 65 Phakamile Mabija Street Kimberley Northern Cape 8300																																																													
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**Thank You!**

Your Once Off Payment was successfully paid.  
Ref: VODSYVQ6ZJCF

28 Sep 2018

Payments From :  
Business Account  
62519614706

**1. Who would you like to pay**

<b>Payment Name</b> DMR (Kimberley)	<b>Account Type</b> Current (cheque/bond) Account
<b>Account Number</b> 4059160637	<b>Branch Code</b> 632005
<b>Bank Name</b> ABSA Bank	
<b>Country</b> South Africa	

**2. Payment Details**

<b>How Much?</b> R 10,000.00	<b>My Reference</b> Khumani NEMA Fee
<b>Their Reference</b> NCNEMA-070MR Khumani	

**Notifications**

<b>Method</b> Email address	<b>Address/Number</b> tanja@envirologistics.co.za	<b>Addressed to</b> To whom it may concern
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