



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, 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 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 noting of intent to apply for a water use licence has been lodged with the Department of Water and Sanitation.
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	<input type="checkbox"/>
NEMA BAR application on its own	R 2 000.00	<input checked="" type="checkbox"/>
NEMWA S&EIR application on its own	R10 000.00	<input type="checkbox"/>
NEMWA BAR application on its own	R 2 000.00	<input type="checkbox"/>
NEMA S&EIR application combined with NEMWA S&EIR application	R 15 000.00	<input type="checkbox"/>
NEMA BAR application combined with NEMWA BAR application	R 3 000.00	<input type="checkbox"/>
NEMA S&EIR application combined with NEMWA BAR application	R 11 000.00	<input type="checkbox"/>

1. CONSULTATION BASIC ASSESSMENT AND/ OR SCOPING REPORT

2. DETAILS OF THE APPLICANT

Project applicant:	Tetra4 (Pty) Ltd		
Registration no (if any):	2005/012157/07		
Trading name (if any):	Tetra4		
Responsible Person (e.g. Director, CEO, etc):	Director		
Contact person:	Khalid Patel		
Physical address:	Sandton Gate, 2nd Floor, Glenadrienne, Sandton, 2196, ZA		
Postal address:	Sandton Gate, 2nd Floor, Glenadrienne, Sandton, 2196, ZA		
Postal code:	2196	Cell:	+27(0) 83 656 2355
Telephone:	+27(0) 10 045 6000	Fax:	
E-mail:	khalid@renergen.co.za		

3. ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP) INFORMATION

EAP:	Sikhumbuzo Mahlangu		
Professional affiliation/registration:	South African Council Natural and Scientific Professions (SACNASP) - 400429/13 Environmental Assessment Practitioners Association of South Africa (EAPASA) – 2022/4554		
Contact person (if different from EAP):	Sikhumbuzo Mahlangu		
Company:	Environmental Impact Management Services (Pty) Ltd		
Physical address:	8 Dalmeny Road, Pine Park, Randburg, 2194		
Postal address:	P.O. Box 2083, Pinetown		
Postal code:	2123	Cell:	+27 83 538 6600

Telephone:	(011) 789 7170	Fax:	+27 86 571 9047
E-mail:	sk@eims.co.za		

If an EAP has not been appointed, please ensure that an independent EAP is appointed as stipulated by the NEMA Regulations prior to the commencement of this process. The declaration of independence and the Curriculum Vitae (indicating the experience with environmental impact assessment and relevant application processes) of the EAP must also be attached as **Appendix 1** below *(To insert PDF file/ Documents open the below help image to follow the manual)*

 Help.pdf		
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4. PROJECT DESCRIPTION

Farm Name:	The application and study area covers various farm portions as depicted in the maps included in Appendix 7 . A table containing the farm names and portions is included in Appendix 7 .	
Application area (Ha)	~18 733.1 ha	
Magisterial district:	Masilonyana and Matjhabeng Local Municipalities, in the Lejweleputswa Magisterial District Municipality, Free State Province.	
Distance and direction from nearest town	The Exploration Right (ER32) located north of the Production Right is approximately 7.2 km Northwest of Welkom and the Exploration Right (ER94) to the south of the Production Right is approximately 19.2 km South of Virginia in the Free State Province.	
21-digit Surveyor General Code for each farm portion	F0240000000005800000	
	F0240000000005800001	
	F0240000000007000000	
	F02400000000021100000	
	F02400000000022200000	
	F02400000000023000000	
	F02400000000024000000	
	F02400000000024000002	
	F02400000000024000003	
	F02400000000024000004	
	F02400000000025800000	
	F02400000000025800001	
	F02400000000025800004	
	F02400000000025800007	
	F02400000000036100000	

	F0240000000003610001	
	F0240000000003860000	
	F0240000000003860001	
	F0240000000004200000	
	F0240000000004200001	
	F0240000000004250000	
	F0240000000004250004	
	F0240000000004250006	
	F0240000000004250008	
	F0240000000004250009	
	F0240000000004250015	
	F0240000000004250016	
	F0240000000004360000	
	F0240000000004440000	
	F0240000000004440001	
	F0240000000004550000	
	F0240000000000370000	
	F0240000000002610000	
	F0240000000004040000	
	F0240000000004050000	
	F0240000000000330000	
	F0240000000001170000	
	F0240000000001400000	
	F0240000000001400003	
	F0240000000002260000	
	F0240000000002340000	
	F0240000000002680000	
	F0240000000003710000	
	F0390000000002770000	
	F0390000000002770008	
	F0390000000002770010	

F0240000000001040000
F0240000000001270003
F0390000000002900000
F0390000000002900001
F0390000000002900003
F0390000000005600000
F0390000000001080000
F0390000000001360000
F0330000000001800000
F0330000000001800001
F0330000000001800002
F0330000000002500001
F0330000000002620000
F03300000000026200015
F0330000000003050000
F03300000000030500001
F0330000000003330000
F03300000000033300002
F0330000000003450000
F0330000000003740000
F03300000000037400001
F0330000000004420000
F0330000000004600001
F0420000000006540000
F04200000000015480000
F042000000000154800001
F04200000000015490000
F042000000000154900001
F042000000000154900002
F042000000000154900003
F042000000000154900004

	F02400000000027200000	
Locality map	Attach a locality map at a scale not smaller than 1:250000 and attach as Appendix 2	
Description of the overall activity. (Indicate Mining Right, Mining Permit, Prospecting right, Bulk Sampling, Production Right, Exploration Right, Reconnaissance permit, Technical co-operation permit, Additional listed activity)	<p>Tetra4 is the operator and holder of existing Exploration Rights and a Production Right (12/4/1/07/2/2), in the Matjhabeng and Masilonyana Local Municipalities, in terms of the Mineral and Petroleum Resources Development Act (No. 28 of 2002 - MPRDA). The Production Right covers an area of ~187 000 ha and the two Exploration Rights cover a combined area of ~18 700 ha.</p> <p>Tetra4 intends to consolidate the Exploration Rights (including the activities such as drilling of up to 18 wells) within the Production Right. This consolidation will incorporate the ~79 farm portions near the towns of Theunissen and Winburg in the south and Odendaalsrus and Allanridge in the north (comprising the Exploration Rights) into the Production Right. The Exploration Right (ER32) located north of the Production Right is approximately 7.2 km Northwest of Welkom and the Exploration Right (ER94) to the south of the Production Right is approximately 19.2 km South of Virginia. An MPRDA Section 102 application shall be lodged to consolidate ER 32 and ER 94 (with associated exploration activities) into the Production Right.</p>	

5. ACTIVITIES TO BE AUTHORISED

(Please attach copies of Environmental Authorisations obtained for the same property as Appendix 3).	Approved EMPR attached.
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(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)	Site plan for drilling pad attached as Appendix 4, the proposed drilling locations can be found in Appendix 2a – 2c; Project Locality Map.
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NAME OF ACTIVITY	AERIAL EXTENT OF THE ACTIVITY (HA OR M ²)	LISTED ACTIVITY	APPLICABLE LISTING NOTICE	WASTE MANAGEMENT AUTHORISATION
<p>E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc.</p> <p>E.g. For mining, - excavations, blasting, stockpiles, discard dumps or dams, loading, hauling and transport, water supply dams and boreholes, accommodation,</p>		Mark with an X where applicable or affected	<i>GNR 983, GNR 984 or GNR 985</i>	<p>Indicate whether an authorisation is required in terms of the Waste Management Act</p> <p>Mark with an X where applicable</p>

offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc.				
<p>Exploration wells will be drilled and, if successful, converted into production wells (a separate application will be lodged in this eventuality). Each exploration well will impact on approximately 50 m X 50 m and where a well is located on indigenous vegetation, this will require the temporary clearance of vegetation which will be rehabilitated post exploration.</p> <p>Temporary access roads will be required in areas where the exploration drill site is not readily accessible from existing access roads.</p>	<p>~4.5 ha</p> <p>Assuming ~250 m per well and 18 exploration wells, a total of 4.5 km of access roads may be required.</p>	<input checked="" type="checkbox"/>	<p>GNR 983, LN1:</p> <p>Activity 21D</p> <p>Activity 24</p> <p>Activity 27</p> <p>Activity 28</p> <p>Activity 56</p> <p>Activity 67</p> <p>GNR 985, LN3:</p> <p>Activity 4</p> <p>Activity 12</p> <p>Activity 18.</p>	<input type="checkbox"/>

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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will the lawful occupier on the property other than the Landowner be consulted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will a tribal authority or host community that may be affected be consulted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will recipients of land claims in respect of the area be consulted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will the landowners or lawful occupiers of neighbouring properties be identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will the local municipality be consulted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will the Authority responsible for power lines within 100 metres of the area be consulted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will Authorities responsible for public roads or railway lines within 100 metres of the area applied for be consulted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? (Specify)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will the Provincial Department responsible for the environment be consulted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will all of the parties identified above be provided with a description of the proposed mining /prospecting operation as referred above?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<p>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?</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>Other (Specify)</p>	<p>Non-Governmental Organisations (NGOs) and Non-Profit Organisations (NPOs) including:</p> <ul style="list-style-type: none"> • African Conservation Trust • Afriforum • Birdlife South Africa • Centre for Environmental Rights • Conservation South Africa • Earthlife Africa • Endangered Wildlife Trust • Federation for Sustainable Environment • FrackFree SA • Groundwork South Africa • Wildlife and Environment Society of South Africa • World Wildlife Fund 	

6.1.2. DETAILS OF THE ENGAGEMENT PROCESS TO BE FOLLOWED.

Steps to be taken to notify interested and affected parties	PROVIDE DESCRIPTION HERE
<p>(Describe the process to be undertaken to consult interested and affected parties including public meetings and one on one consultations. It's important to note that 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 5)</p>	<p>Interested and Affected Parties (I&APs) have been notified of the proposed Exploration Rights consolidation during the Call to Register (CTR) period via newspaper advertisements, site notices and posters, registered letters, emails, SMS's and facsimiles. 80 Site notices and 21 posters in English, Afrikaans and Sesotho were placed in various locations within and surrounding the application areas; and a newspaper advertisement was placed in English, Afrikaans and Sesotho in the Vista Newspaper that has wide distribution in the application areas.</p> <p>The Public Participation Process is and will be undertaken in accordance with the National Environmental Management Act (Act No. 107 of 1998 - NEMA) process and the Environmental Impact Assessment (EIA) Regulations, 2014. A minimum of 30 days was provided to the public to register as I&APs and to provide comments. A further 30 days will be provided to registered I&APs to review and comment on the Basic Assessment Report associated appendices. A public open day will be held during the BAR review period. Focus Group Meetings will also be held during the BAR review periods with affected landowners as well as occupiers where possible. Relevant information submitted by I&APs will be used to inform the Impact Assessment and compilation of the relevant reports.</p>
<p>Information to be provided to Interested and Affected Parties.</p>	<p>Compulsory</p> <ul style="list-style-type: none"> • The site plan. • List of activities to be authorised. • Scale and extent of activities to be authorised. • Typical impacts of activities to be authorised (e.g. surface disturbance, dust, noise, drainage, etc.). • The duration of the activity. • Sufficient detail of the intended operation to enable them to assess what impact the activities will have on them or the use of their land <p>Other (Specify):</p> <ul style="list-style-type: none"> • The need and motivation of the proposed project; • Details of the MPRDA and NEMA Regulations that must be adhered to; • Date by which comment, concerns and objections must be forwarded through to EIMS; and • Contact details of the Environmental Assessment Practitioner (EAP) and acceptable mechanisms of communication.
<p>Information to be required from Interested and Affected Parties.</p>	<p>Compulsory</p> <ul style="list-style-type: none"> • To provide information on how they consider that the proposed activities will impact on them or their socio-economic conditions. • To provide written responses stating their suggestions to mitigate the anticipated impacts of each activity.

	<ul style="list-style-type: none">• To provide information on current land uses and their location within the area under consideration.• 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.• 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.
	<p>Other (Specify):</p> <ul style="list-style-type: none">• Details of the landowner and information on lawful occupiers;• Details of any communities existing within the area;• Details of any Tribal Authorities within the area;• Details of any other I&AP's that need to be notified;• Details on any land developments proposed;• Details of any perceived impacts to the environment that should be considered in the BAR; and• Any specific comments, concerns or objections to the proposed prospecting operation.

7. DESCRIPTION OF THE ASSESSMENT PROCESS TO BE UNDERTAKEN

ITEM	DESCRIPTION
<p>Environmental attributes: Describe how the Environmental attributes associated with the development footprint will be determined</p>	<p>The description of the existing status of the current receiving environment will be compiled through remote sensing data such as Lidar aerial photographs as well as onsite inspections undertaken during a screening site visit by the EAP. The DEA Screening Tool Report as well as the Site Sensitivity and Verification Report (SSVR) is included in Appendix 8. In addition, desktop data, available GIS information as well as recent monitoring reports and available information from the Cluster 1 and Cluster 2 projects, will be utilised. Specialist site visits will also be used to update any available information or identify new information related to the environmental attributes of the receiving environment. Within the BAR, the proposed project activities will be described and the environmental attributes which are likely to be affected by these activities identified.</p>
<p>Identification of impacts and risks: Describe the process that will be used to identify impacts and risks</p>	<p>The identification of potential impacts and risks for assessment will be undertaken through specialist investigations and I&AP consultation and the development of an in-depth understanding of the activities, actions, and processes to be undertaken on-site based on the EAP's experience with similar projects (including the previous Cluster 1 and 2 EIAs). The potential impacts and risks on broad environmental aspects, in respect of the main project actions, activities, and processes will be assessed and presented in the BAR process.</p>
<p>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</p>	<p>The identification and assessment of alternatives is a key component to the success of any application. Essentially, alternatives represent different means of meeting the general purpose and need of the proposed project through the identification of the most appropriate development proposal. Two levels of alternative screening will be investigated and considered which culminates in the identification of the feasible development alternative. The first-level alternatives include land use, location, exploration method, and site access alternatives. These alternatives will determine the optimal process for the proposed exploration activities. After these viable alternatives have been assessed (if any), the level two alternatives including technology and phasing alternatives will be considered in order to ensure the best practicable option is proposed for the activity.</p>
<p>Process to assess and rank impacts: Describe the process to be undertaken to identify, assess and rank the impacts and risks each individual activity</p>	<p>Please refer to Appendix 9 for a detailed description of the EIMS Impact assessment methodology.</p>
<p>Contribution of specialist reports: Describe how specialist reports, if required, will be taken into consideration and inform the impact identification, assessment and remediation process</p>	<p>Specialist studies will be utilised to guide and inform the assessment of the potential impacts. The specialists' studies identified at the start of this application and to be included in this assessment include:</p> <ul style="list-style-type: none"> • Agricultural Potential & Hydropedology Impact Assessment • Financial Provision update • Heritage Impact Assessment • Terrestrial Biodiversity Impact Assessment • Wetland and Aquatic Impact Assessment <p>Should additional specialist studies be identified during the course of the application process, these will be included in addition to the above (where relevant).</p> <p>Specialist studies that will comply with the requirements of the EIA Regulations, 2014 as well as the Specialist Protocols published by the DFFE (where</p>

	<p>applicable). The relevant specialists will conduct site visits to verify sensitive features and assist with the identification of alternatives (where relevant). The specialist reports will be incorporated into the BAR and will be made available to registered I&APs for review and comment.</p>
<p>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</p>	<p>The objectives of the impact management measures shall be to firstly anticipate and avoid risks and impacts where practically possible. This shall be accomplished through the adoption of a risk and impact assessment process which aims to identify all relevant environmental and social risks and impacts of the project and those who are likely to be affected by such risks and impacts, including the issues identified by I&APs during the consultation process and any sensitive features identified by the specialists. The impact and risk identification process shall take into consideration each activity its associated potential impacts.</p> <p>As per the Need and Desirability Guideline (Integrated Environmental Management Guideline Series 9) the impact mitigation hierarchical approach will be followed by:</p> <ol style="list-style-type: none"> 1. Alternatives will be investigated to avoid negative impact altogether if possible; 2. Alternatives will be investigated to reduce (mitigate and manage) unavoidable negative impact; 3. Alternatives will be investigated to remediate impacts (rehabilitate and restore); 4. Options will be investigated to offset unavoidable negative impacts that remain after mitigation and remediation; and 5. Alternatives will be investigated to optimise positive impacts. <p>The EMP developed for the project shall include mechanisms whereby social and environmental risk and impacts shall be avoided and mitigated. The Generic Gas Pipeline EMPR shall be used (as required) while the Cluster 1 approved EMPR will be assessed to determine if any additional and specific mitigation measures are required.</p> <p>The objectives of this environmental management framework shall be:</p> <ul style="list-style-type: none"> • To anticipate potential risks and impacts associated with each activity pre-emptively through the implementation of risk assessment techniques and early warning systems such as environmental monitoring and inspections; • To develop and implement preventative measures to ensure known risks and impacts are addressed at source wherever possible; • To implement detailed management measures to ensure that where avoidance of impacts is not possible, mitigation measures are in place to minimize impacts to workers, affected communities, and the environment; • To provide a framework for adaptive environmental management within the EMPR whereby impacts from unplanned events or incidents caused by the project may be effectively controlled to minimise impacts to workers, affected communities, and the environment. <p>The management and mitigation measures shall be developed in accordance with applicable standards and guidelines, which shall include, but is not limited to:</p> <ul style="list-style-type: none"> • Legislated Standards (e.g. air quality guidelines and standards); • South African National Standards (SANS)(e.g. SANS water quality standards); • Where Applicable, International Standards and Guidelines;

	<ul style="list-style-type: none">• Applicable National and Regional Frameworks (e.g. Bioregional Plans; Spatial Development Frameworks, National Protected Area Expansion Strategy Focus Areas, Environmental Management Frameworks, etc);• Applicable Guidelines developed by authorities (e.g. DMR guidelines, NEMA EIA guidelines and protocols, etc); and• Other applicable guidelines (e.g. Mining and Biodiversity Guidelines).
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8. OTHER AUTHORISATIONS REQUIRED

LEGISLATION	Mark with an X where applicable			
	AUTHORISATION REQUIRED		APPLICATION SUBMITTED	
	YES	NO	YES	NO
SEMA s				
National Environmental Management: Air Quality Act	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
National Environmental Management: Biodiversity Act	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
National Environmental Management: Integrated Coastal Management Act	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
National Environmental Management: Protected Areas Act	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
National Environmental Management: Waste Act	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
National legislation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mineral Petroleum Development Resources Act	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
National Water Act	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
National Heritage Resources Act	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Others: Please specify	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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.	Proof of application for amendment in terms of Section 102 submitted to the PASA attached as Appendix 6.			

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 E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc. E.g. For mining, - excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc.	PHASE (of operation in which activity will take place) State Planning and design, Pre-Construction, Construction, Operational, Rehabilitation, Closure, Post closure	SIZE AND SCALE (of Disturbance) (volumes, tonnages and hectares or m ²)	TYPICAL MITIGATION MEASURES E.g. storm water control, dust control, noise control, access control, rehabilitation etc.	COMPLIANCE WITH STANDARDS 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
Exploration Wells Exploration drilling per well = 50 m X 50 m (2500 m ²).	Construction and operational	~4.5 ha	<ul style="list-style-type: none"> • Inform owners/occupiers and other users in writing of intent to undertake exploration drilling and comply with reasonable request to reduce the impact. • Negotiate compensation for interference with other users where necessary. • Locate exploration drilling in consultation with landowners to minimise impact on current land use. 	EMPr
Drilling waste storage facilities	Construction	~1 296 m ³	<ul style="list-style-type: none"> • Prevent contamination and groundwater resources utilising barrier systems. • Dispose of waste at a suitably licenced disposal facility. 	EMPr

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, ablution facility, accommodation, equipment storage, sample storage, site office, access route 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, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc.</p>	<p>State Planning and design, Pre-Construction, Construction, Operational, Rehabilitation, Closure, Post closure</p>	<p>(volumes, tonnages and hectares or m²)</p>	<p>E.g. storm water control, dust control, noise control, access control, rehabilitation 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>
<p>Access Roads</p>	<p>Construction and Operational</p>	<p>~2 m wide access roads. Location and length dependent on outcomes of consultations with affected landowners.</p>	<ul style="list-style-type: none"> • Negotiate proposed construction (temporary) as well as operational (permanent) access roads with the affected landowners. • Access roads must be suitably located taking cognisance of site sensitivities as identified in the Basic Assessment and EMPr. • Erosion protection measures must be installed where relevant to prevent preferential flows which could cause scouring sedimentation of watercourses etc. 	<p>EMPr</p>

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>Baseline environment 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 through the desktop assessments and specialist studies utilising GIS data and available datasets such as NFEPA, CBA, and BGIS as well as site visits and any information shared by I&APs. Potential site sensitivities will be investigated and land uses both on site and in the surrounding area will be identified.</p>
<p>Closure objectives Describe the closure objectives and the extent to which they will be aligned to the baseline environment</p>	<p>The overall closure objective will be to ensure that the post-closure environment aligns with the pre-development as far as reasonably possible.</p> <p>Closure of the project on completion of exploration activities will require the removal and safe disposal of surface infrastructure. Grouting/cementing (plugging) of the wells will be undertaken to prevent interplay between the gas reserve or the shallow and deeper aquifers where necessary. Ongoing water monitoring will be undertaken post closure to monitor the water resources for any pollution from the sealed wells.</p>
<p>Rehabilitation Plan 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>It is anticipated that the exploration drilling activities will have a low impact on the receiving environment. The aerial extent (square meters or hectares) of the exploration activities is provided in Section 9 above. The impacts will be further assessed and detailed in the BA Report. The current project and application will consist of ~18 exploration wells, it is however, not known at this stage how many exploration wells would have been drilled at the time of closure. Additional exploration may take place depending on the outcomes of the initial exploration in these areas. A site rehabilitation plan will be investigated and presented in the EMPr during the BA Phase.</p>
<p>Rehabilitation Cost Describe how the rehabilitation cost will be determined and provide a preliminary estimate thereof</p>	<p>The Production Right area (Cluster 1 and 2) rehabilitation and closure costs will be adjusted to include the consolidated Exploration Rights and associated activities. Financial provisioning adjustments will be required to for the consolidated areas. The Regulations Pertaining to the Financial Provision for Prospecting, Exploration, Mining or Production Operations promulgated under section 44(aE), (aF), (aG), (aH) read with sections 24(5)(b)(ix), 24(5)(d), 24N, 24P and 24R of the National Environmental Management Act, 1998 (Act No.107 of 1998) (20 November 2015) will be considered and this will, where relevant, be included in the BAR to be compiled.</p>
<p>Decommissioning Considering that rehabilitation must take place upon cessation of an activity, describe when each of activities applied for</p>	<p>Non-viable exploration wells will be rehabilitated upon cessation of the exploration activities. Exploration wells that go on to become part of the production activities will be rehabilitated following decommissioning at the end of production activities.</p>

will be rehabilitated in terms of either the cessation of the individual activity or the cessation of the overall prospecting or mining activity	
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11. Any other additional information that needs to be attached as annexures, and be referenced as such under relevant sections, should be attached here: | |



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

Tetra4 (Pty) Ltd

Name of company (if applicable):

09/07/2024
Click here to enter a date.

Date

APPENDIX 1: DECLARATION OF THE EAP AND CURRICULUM VITAE

I, Sikhumbuzo Mahlangu , 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 (mark whichever is 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:

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[]

[] 

Signature of the Environmental Assessment Practitioner:

Environmental Impact Management Services (Pty) Ltd

Name of Company:

10/07/2024
[Click here to enter a date.](#)

Date:

APPENDIX 2A: PROJECT LOCALITY MAP

APPENDIX 2B: PROJECT LOCALITY MAP ER94

APPENDIX 2C: PROJECT LOCALITY MAP ER 32

APPENDIX 3: ENVIRONMENTAL AUTHORISATION

APPENDIX 4: SITE LAYOUT PLAN

APPENDIX 5: I&AP NOTIFICATION PHOTOGRAPHS

APPENDIX 6: PROOF OF APPLICATION

APPENDIX 7: FARM PORTIONS AND DETAILS

APPENDIX 8: SSVR

APPENDIX 9: IMPACT ASSESSMENT METHODOLOGY