



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:	
Telephone:	+27(0) 10 045 6000	Fax:	
E-mail:	khalid@renergen.co.za		

3. ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP) INFORMATION

EAP:	John Paul Von Mayer		
Professional affiliation/registration:	Registered Professional Natural Scientist (SACNSP- #400336/11) EAPASA Registered Environmental Assessment Practitioner (2019/1247)		
Contact person (if different from EAP):	Jessica Jordaan EAPASA 2023/7087		
Company:	Environmental Impact Management Services (Pty) Ltd		
Physical address:	8 Dalmeny Road, Pine Park, Randburg, 2194		
Postal address:	P.O. Box 2083, Pinegowrie		
Postal code:	2123	Cell:	

Telephone:	(011) 789 7170	Fax:	
E-mail:	john@eims.co.za jessica@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*)



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)	~27 500 ha	
Magisterial district:	Masilonyana and Matjhabeng Local Municipalities, in the Lejweleputswa District Municipality, Free State Province.	
Distance and direction from nearest town	The site boundary is ~5km south west of the town of Virginia, ~9km south the town of Welkom and ~16km north of the town of Theunissen.	
21-digit Surveyor General Code for each farm portion	A table containing the farm names and portions as well as the associated 21-digit Surveyor General Code for each farm portion is included in Appendix 7.	
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)	Tetra4 (Pty) Ltd wishes to undertake 3D seismic surveys throughout their approved Cluster 2 application area (to provide a structural image of the subsurface geology to be utilized to refine locations of the Cluster 2 gas production wells. The proposed 3D seismic surveys are to be carried out within the approved Tetra4 Production Right (PR) area and as such a Mineral and Petroleum Resources Development Act (MPRDA) Section 102 amendment is required to apply for Environmental Authorisation for the seismic activities.	

5. ACTIVITIES TO BE AUTHORISED

(Please attach copies of Environmental Authorisations obtained for the same property as Appendix 3).	Approved EA (Cluster 1 2017, ref: 12/04/07) 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 and routes for seismic survey attached as Appendix 4.
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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, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc.</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>
Seismic Survey of the Tetra 4 Cluster 2 approved area.	~27 500 hectares.	X	GNR 983: LN1 Activity 21C	
Change to the works program and EMPr of the Tetra4 production right	~27 500 hectares.	X	GNR 983: LN1 Activity 21D	

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"/>
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other (Specify)	Non-Governmental Organisations (NGOs) and Non-Profit Organisations (NPOs) including: <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.

<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. 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>PROVIDE DESCRIPTION HERE</p> <p>Interested and Affected Parties (I&APs) have been notified of the proposed expansion of the gas production activities (Cluster 2) during the Call to Register (CTR) period via newspaper advertisements, site notices and posters, registered letters, emails, SMS's and facsimiles. 30 Site notices 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 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"> • Heritage Impact Assessment • Palaeontology 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 applicable). The relevant specialists will conduct site visits to verify sensitive features and assist with the identification of alternatives (where relevant). The</p>

	<p>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 EMPR 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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.				

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
Seismic survey	Operation	The seismic survey involves Vibroseis trucks traversing the full ~27,500 ha Production Right Area, acquiring data at 30-meter source intervals	<ul style="list-style-type: none"> • Dust control • Avoid No Go areas • Survey to be undertaken during the day, between 06:00 and 18:00 • Survey to be undertaken during fallow periods of a crop field, outside hunting seasons, or as agreed by the landowner • Formal access agreements must be concluded with landowners, detailing the specific schedule of survey activities on their respective properties. 	EMPr
Access Roads	Construction	~2 m wide access roads. Location and length	<ul style="list-style-type: none"> • Negotiate proposed construction (temporary) as well as operational (permanent) 	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>dependent on outcomes of consultations with affected landowners.</p>	<p>access roads with the affected landowners.</p> <ul style="list-style-type: none"> • 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. 	

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</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</p>
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<p>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>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 activities will require the removal and safe disposal of surface infrastructure.</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 seismic survey activities will have a low impact on the receiving environment. The aerial extent (square meters or hectares) of the activities is provided in Section 9 above. 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, where relevant, to include the survey activities. Financial provisioning adjustments will be required 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 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>Upon the completion of the survey activities, any surface infrastructure, materials and equipment will be removed immediately and impacted areas will be rehabilitated.</p>

11. Any other additional information that needs to be attached as annexures, and be referenced as such under relevant sections, should be attached here: N/A

A handwritten signature in black ink, appearing to be 'T.P.' with a flourish.

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

Tetra4 (Pty) Ltd

Name of company (if applicable):

10 March 2026

Date

APPENDIX 1: DECLARATION OF THE EAP AND CURRICULUM VITAE

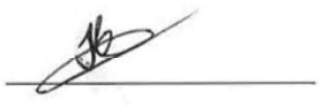
I, John Paul von Mayer, declare that –

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;



Signature of the Environmental Assessment Practitioner:

Environmental Impact Management Services (Pty) Ltd

Name of Company:

06 March 2026

Date:

I, Jessica Jordaan, 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;



Signature of the Environmental Assessment Practitioner:

Environmental Impact Management Services (Pty) Ltd

Name of Company:

06 March 2026

Date:

CURRICULUM VITAE

Name:	Jessica Jordaan
Nationality:	South African
Date of Birth:	01 June 1995
Profession:	Environmental Consultant and Candidate Soil Specialist
Professional Qualification/ Training:	BSc Honours Environmental and Soil Science; University of Pretoria, 2021
	BSc Geology; University of Pretoria, 2020
	ISO14001:2015 Lead Auditor Course, BSI, 2023
Professional Membership/ Registrations:	Registered candidate Environmental Assessment Practitioner with EAPASA – 2023/7087 Registered candidates Soil Scientist with SACNASP - #124758 Member with Soil Science Society of South Africa - #2237452 Member of Land Rehabilitation Society of Southern Africa - #22560
Current Employer:	Environmental Impact Management Services (Pty) Ltd.

KEY EXPERIENCE

Ms. Jordaan is an Environmental Consultant and Candidate Soil/Agriculture Specialist at EIMS and has been involved in numerous environmental audits, prospecting and exploration rights environmental authorisation application projects, and rehabilitation projects regarding Financial Provisions. She holds a BSc degree in Geology and a BSc Honours degree in Environmental Soil and Soil Science. Ms Jordaan’s experience includes managing and/or undertaking Environmental Impact Assessments (EIA) and Basic Assessments (BA), Soil and Agriculture Assessments, Financial Provisioning, Environmental Audits, and ISO14001:2015 Audits. Ms Jordaan is a registered Candidate Soil Scientist (#124758) with the South African Council of Natural and Scientific Professions (SACNASP), as well as a registered Candidate Environmental Assessment Practitioner (2023/7087) with the Environmental Assessment Practitioners Association of South Africa (EAPASA). She is a registered ISO 14001:2015 Lead Auditor with the Chartered Quality Institute (CQI) and a member of the International Register of Certified Auditors (IRCA).

CAREER SUMMARY

Period: April 2023 - Present:	Organisation: EIMS	Position: Environmental Assessment Practitioner
Key Responsibilities	<u>Environmental Assessment Practitioner:</u> <ul style="list-style-type: none"> • Compilation of screening reports; 	



	<ul style="list-style-type: none"> • Compilation of Scoping reports; • Compilation of EIA and BA reports; • Environmental monitoring reports; • Compilation of Environmental Management Plans; and • Ad hoc environmental inputs. <p><u>Auditor:</u></p> <ul style="list-style-type: none"> • Environmental Authorisation audits; • EMPr audits; • Water use licence and General Authorisation audits; and • Environmental management systems (ISO14001:2015) audits. <p><u>Mine and Exploration/Prospecting Closure and Financial Provisioning:</u></p> <ul style="list-style-type: none"> • Determining Financial Provision in accordance with the 'Guideline Document for the Evaluation of the Quantum of Closure-related Financial Provision' (DMR Guideline). • Preparing Final Rehabilitation, Decommissioning and Closure plans in accordance with the NEMA Financial Provisioning Regulations (GN R 1147, 2015). <p><u>Soil and Agriculture Assessments:</u></p> <ul style="list-style-type: none"> • Undertaking soil and/or agricultural assessments as per NEMA GN R 320 and NEMA EIA regulations GN R 985, Appendix 6; • Undertaking soil assessments in support of plough certificates; and • Soil contamination assessments.
<p>Key Projects/Assignments</p>	<ul style="list-style-type: none"> • Agricultural Assessment as part of an Environmental Impact Assessment for Harmony Gold Mining Company Limited; • Agricultural Assessment as part of an Environmental Impact Assessment for Alleyroads KIDDS Beach mixed-use residential development project; • Tetra4 (Pty) Ltd Seismic Survey BA; • African Exploration Mining and Finance Corporation (Pty) Ltd Herbert Prospecting Rights BA and WULA; • African Exploration Mining and Finance Corporation (Pty) Ltd Gordonia Prospecting Rights BA and WULA; • Tetra4 (Pty) Ltd Production Right Extension BA; • Aqua Farming (Pty) Ltd Pivot Agriculture EIA and WULA; • Financial Provisions for Rehabilitation, Closure and Decommissioning for the following clients: <ul style="list-style-type: none"> ○ African Exploration Mining and Finance Corporation (Pty) Ltd



	<ul style="list-style-type: none">○ Tetra4 (Pty) Ltd○ Motuoane Energy (Pty) Ltd○ Glencore (Pty) Ltd○ Elandsfontein Colliery (Pty) Ltd● Motuoane Energy (Pty) Ltd EA and EMPr audits;● Forzando Coal Mines (Pty) Ltd EA and EMPr audits;● ENEL Green Power: Paleisheuwel Solar plant WUL audit;● Elandsfontein Colliery (Pty) Ltd WUL audit;● ISO 14001:2015 audits for various Harmony mines;● Environmental advisory for Sterkfontein Poultry (Pty) Ltd; and● Environmental Advisory for Turner Townsend (Pty) Ltd
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LANGUAGE CAPABILITY

Language	Speak	Read	Write
English	Excellent	Excellent	Excellent
Afrikaans	Excellent	Excellent	Excellent

DECLARATION

I confirm that the above information contained in the CV is an accurate description of my experience and qualifications and that, at the time of signature.



Signature of Staff Member

01-27-2026

Date

CURRICULUM VITAE

Name:	John Paul von Mayer
Nationality:	South African
Date of Birth:	24 September 1984
Profession:	Environmental Scientist
Professional Qualification/ Training:	BSc Honours Environmental Science; University of the Witwatersrand, 2007
	BSc Environmental Science; University of the Witwatersrand, 2006
	Certificate in Environmental Law, Rhodes University, 2011
Professional Membership/ Registrations:	Registered Professional Natural Scientist (SACNSP- #400336/11) EAPASA Registered Environmental Assessment Practitioner (2019/1247)
Current Employer:	Environmental Impact Management Services (Pty) Ltd.

KEY EXPERIENCE

Mr John von Mayer is a senior consultant at EIMS and has been involved in numerous significant projects the past 17 years. He has experience in Project Management, small to large scale Environmental Impact Assessments, Environmental Auditing, Water Use Licensing, and Public Participation. He is a Registered Professional Natural Scientist (400336/11) with the South African Council Natural and Scientific Professions (SACNASP) as well as a registered EAPASA Environmental Practitioner (2019/1247) His key experience includes:

- Experience with identification and assessment of environmental impacts.
- Experience in environmental compliance and monitoring.
- Knowledge of environmental legislation and policies, planning process and regulatory frameworks.
- Knowledge and experience of public participation process.
- Strong competencies in the assessment of renewable energy and mining projects.
- Project management.

CAREER SUMMARY

Period: November 2016 - Present:	Organisation: EIMS	Position: Senior Environmental Assessment Practitioner
Key Projects/Assignments	<u>Senior EAP:</u> Responsible for managing various projects. Main responsibilities include: <ul style="list-style-type: none"> • Compilation of EIA reports 	



- Environmental audits and compliance reporting
- Compilation of Environmental Management Plans
- Various licensing and permitting applications

Currently involved in a number of ongoing projects, EIAs, etc.

Selected Project Experience:

- Update of Environmental Management Plans for three of Harmony's Freestate Gold Mining Operations (2018)
- Eloff Phase 3 Coal Mine extension EIA (2019 -2020).
- Vlakvarkfontein Coal Mine extension EIA and WULA (2018 – 2019).
- EA Basic Assessment application for Searcher 3D Seismic Survey Reconnaissance offshore project off the West Coast of South Africa (2022)
- Droogvallei Coal Mine Water Use Licence Application (2020)
- Elandsfontein mine extension EIA and Water Use Licence Application near Delmas Mpumalanga Province (2022)
- Proxa Eastern Basin Treatment Plant EA / EMPr Audit (2019)
- Harmony Mispah and Kareerand Pipelines EA and WULAs for various Harmony mines throughout Free-State (2023)
- External Environmental Compliance Audits for various Eskom power stations (Matimba, Medupi, Kusile etc) (2018 – 2022)
- Updates to Manungu Mine Rehabilitation Strategy and Implementation Plan (2017)
- Amendment of Environmental Authorization for Harmony Gold Mining Kalgold operations (2018)
- EMPr amendment for Harmony Moab mine (2019)
- Environmental Compliance Audit for the Amakhala Emoyeni Wind Far (2017)
- Environmental Compliance Audit for various coal mines including Canyon Coal's Hokhana Coal Mine (2017)
- Tetra4 EA / EMPr / WUL compliance audits for Cluster 1 exploration activities (2022 – 2024)
- Harmony Valley Tailings Storage Facility EIA and WULA near Welkom (2023 – current)
- Various EIAs and EMPrs for Glencore Solar PV facilities at Wonderkop smelter, Lydenburg smelter and Rhovan vanadium mine (2023-2024)
- EMPr Performance assessment audits at various Harmony Free-State operations (2021)



	<ul style="list-style-type: none"> Sunbird Energy NEMA EA and EMPr offshore exploration compliance audit (2022) 	
Period: June 2008 – June 2012 and October 2014 – November 2016	Organisation: Savannah Environmental	Position: Senior Environmental Assessment Practitioner
Key Projects/Assignments	<p>Project Manager and Environmental Assessment Practitioner for the following:</p> <ul style="list-style-type: none"> Environmental Impact Assessment for the Hopefield Wind Energy Facility, Western Cape Province in line with WB / IFC standards Environmental Impact Assessment for a Wind Energy Facility near Cookhouse, Eastern Cape Province in line with WB / IFC standards Basic Assessment for Cookhouse II Wind Energy Facility expansion project, Eastern Cape Province in line with WB / IFC standards Provision of Environmental Consulting Services for the Implementation and Compliance Monitoring of the Cookhouse Wind Energy Facility Environmental Post Construction Audits for Wind Monitoring Masts near Cookhouse and Oyster Bay Environmental Impact Assessments for the Amakhala Emoyeni Wind Energy Facilities near Bedford, Eastern Cape Province in line with WB / IFC standards. Environmental Impact Assessments and Environmental Management Plans for Wind Energy Facilities near Indwe and Sterkstroom, Eastern Cape Province Environmental Impact Assessment and Management Plan for Happy Valley Wind Energy Facility near Humansdorp, Eastern Cape Province Environmental Impact Assessment and Management Plan for Deep River Wind Energy Facility near Humansdorp, Eastern Cape Province Environmental Impact Assessment and Management Plan for 200km of Eskom Transmission Lines in Limpopo Province: Mokopane Integration Project Environmental Impact Assessment and Management Plan for Tsitsikamma Community Wind Energy Facility in the Eastern Cape Province Integrated Environmental Impact Assessment and Management Plan for Tshivhaso Coal Fired power Plant near Lephalale Environmental Audits and Compliance Monitoring for Eskom Duvha Mine Water Recovery Project Completed Regional Siting Assessments for proposed Wind Energy Facilities on the West Coast for Investec. Numerous Basic Assessments including: Qoboshane Road and Access Bridge Project, Various 132kV power line projects throughout the country, Wastewater treatment facility for Harmony's Doornkop Mine, Camco PV project at Thaba Eco Lodge. 	



	<ul style="list-style-type: none"> • Legal Review and Licenses Audit for Eskom Generation, Duvha Power Station. • Legal Review and License Audit for Eskom Generation, Hendrina Power Station. • External WUL and NEMA Performance Assessment for the Hakhano Colliery in Middelburg. • Annual Environmental Compliance, Equator Principles, IFC Performance Standards and World Bank EHS Guidelines Auditing for the construction of the 138MW Amakhala Emoyeni Project 1 Wind Energy Facility near Bedford, Eastern Cape Province. 	
June 2012 – October 2014: Senior Environmental Scientist;	Organisation: Mills and Otten	Position: Environmental Scientist
Key Projects/Assignments	Environmental Scientist at Mills and Otten. Worked on the following projects: <ul style="list-style-type: none"> • Phase 1 and Phase 2 contamination assessments for BP, BP RM, Engen and Total SA at various filling stations and fuel installations throughout the country. • Remediation monitoring and Remediation Action Plans for various filling stations in Johannesburg for BP RM and Total SA. • Various Waste and Water Use License Applications 	

LANGUAGE CAPABILITY

Language	Speak	Read	Write
English	Excellent	Excellent	Excellent
Afrikaans	Average	Good	Average

DECLARATION

I confirm that the above information contained in the CV is an accurate description of my experience and qualifications and that, at the time of signature.

Signature of Staff Member

Date

APPENDIX 3: ENVIRONMENTAL AUTHORISATION

Petroleum Agency SA

Tygerpoort Building · 7 Mispel Street · Bellville 7530 · P.O. Box 5111 Tygervalley 7536 · South Africa
Tel: +27 21 938 3500 · Fax: +27 21 938 3520
E-mail: plu@petroleumagency.co.za



29 September 2017

Ref: 12/4/007
Enquiries: A M Thovhakale +2721 938 3579

E-mail: nobuhle@eims.co.za
Cc: khalidp@tetra4.com

Ms. Nobuhle Hughes
Environmental Impact Management Services (Pty) Ltd
PO Box 2083
Pinetown
Gauteng
2123

Dear Ms. Nobuhle Hughes

APPLICATION FOR ENVIRONMENTAL AUTHORISATION IN TERMS OF REGULATION 16 OF THE ENVIRONMENTAL IMPACT ASSESSMENT REGULATIONS, 2014 ("EIA REGULATIONS") UNDER THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 ("NEMA")

I refer to the above application and wish to advise you that your application for environmental authorization has been granted.

A letter of authorisation, environmental authorization and the Reasons for Decision are attached hereto as **Annexures A, B & C** respectively.

If you need further assistance do not hesitate to contact us.

Yours sincerely,


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T MOTLOUNG
ACTING GENERAL MANAGER: REGULATION

Directors: MP Fusi (Chairperson)

B Luthuli R Nkambule T Ramuedzisi L Nengovhela L Mekwe (Acting Executive)

Company Secretary: Adv E Hendricks

Subsidiary of CEF SOC Ltd.

South African Agency for Promotion of Petroleum Exploration and Exploitation SOC Ltd. Registration No. 1999/015715/30



ANNEXURE A



mineral resources

Department:
Mineral Resources
REPUBLIC OF SOUTH AFRICA

Attention: Mr Stefano Marani

Tetra4 (Pty) Ltd
Postnet Suite 610
Private Bag X10030
Randburg
2125

APPLICATION FOR INTEGRATED ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 AND NATIONAL ENVIRONMENTAL MANAGEMENT: WASTE ACT, 2008 AND THE ENVIRONMENTAL IMPACT ASSESSMENT REGULATIONS, 2014 FOR THE PROPOSED TETRA 4 CLUSTER 1 GAS PRODUCTION PROJECT LOCATED IN MATJHABENG AND MASILONYANA LOCAL MUNICIPALITIES IN THE FREE STATE PROVINCE.

I, Seipati Silvia Dhlamini, in terms of the powers delegated to me, have in terms of Section 24L of the National Environmental Management Act, 1998 (Act 107 of 1998) decided to grant an integrated environmental authorisation (hereafter referred to as authorisation) in respect of the application lodged on 20 October 2016. Herewith attached is the copy of the authorisation and reasons for the decision to grant.

You are instructed in terms of Regulation 4(2) of the EIA Regulations to notify all registered interested and affected parties (I&APs) in writing and within fourteen days of the date of the decision, of the outcomes of your application. You are also required to inform registered I&APs of the procedure to submit appeals against the decision as contained in the National Environmental Management Act, 1998 (Act 107 of 1998): National Appeals Regulations, 2014 (hereafter referred to as 'Appeals Regulations').

Should you wish to appeal the decision or any aspect thereof, you must submit an appeal in the prescribed form and in accordance with Chapter 2 of the Appeals Regulation, within twenty days from the date of notification of the decision. The

said must be submitted to the Minister of Environmental Affairs, and copies sent to the Department of Mineral Resources (Head Office) and the Petroleum Agency SA by one of the following means:

1) Department of Environmental Affairs

Appeals and Legal Review Directorate

Attention: Director: Appeals and Legal Review

Email: appealsdirectorate@environment.gov.za

Post: Private Bag x 447, PRETORIA, 0001

By Hand: Environmental House, Corner Steve Biko and Soutspansberg Street, Acardia, Pretoria, 0083

2) The Petroleum Agency SA

Attention: The Chief Executive Officer

Email: plu@petroleumagency.com

Post: Private Bag x 5111, TYGERVALLEY, 7536

By Hand: Tygerpoort Building, 7 Mispel Road, BELLVILLE, 7530

3) Department of Mineral Resources

Legal Services Directorate

Attention: Director – Legal Services

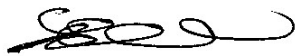
Facsimile: 086 710 0877

Post: Private Bag x 59, ARCADIA, 0007

By Hand: Trevenna Campus, Building 2C, c/o Meintjes and Francis Baard Street, SUNNYSIDE, 0007

The authorised activities shall not commence within twenty days of the date of signature of this authorisation. Please also note that should the Minister of Environmental Affairs receive appeals against this authorisation or conditions thereof, this authorisation will be suspended in accordance with section 43(7) of NEMA, pending the decision on such appeals.

Yours sincerely,



SEIPATI SILVIA DHLAMINI

ACTING DEPUTY DIRECTOR-GENERAL: MINERAL REGULATION

DATE: 21/09/2017

ANNEXURE B



mineral resources

Department:
Mineral Resources
REPUBLIC OF SOUTH AFRICA

INTEGRATED ENVIRONMENTAL AUTHORISATION

IN RESPECT OF

CLUSTER 1 GAS PRODUCTION PROJECT WHICH INCLUDES WELL DRILLING, GAS EXTRACTION, LAYING OF GAS PIPELINES TO TRANSPORT COMPRESSED GAS FROM NEW AND EXISTING WELLS TO THE PROPOSED COMBINED HELIUM AND COMPRESSED NATURAL GAS (CNG) PLANT FOR PROCESSING.

APPLICATION DETAILS

Application Reference Number	12/04/07
Holder of Environmental Authorisation	Tetra4 (Pty) Ltd
Location of the Activity	Various farms in the Matjhabeng and Masilonyana Local Municipalities (Lejweleputswa District Municipality) in Free State Province.
Size of the Application Area	14 316 ha

This authorization does not negate the holder of the authorization responsibility to comply with any other statutory requirements that may be applicable to the undertaking of the activity.

DECISION ON THE INTEGRATED ENVIRONMENTAL AUTHORISATION

The Department is satisfied, on the basis of the information made available to it, and subject to compliance with the conditions of this Integrated Environmental Authorisation ('authorisation'), and the requirements of the Environmental Impact Report, that the applicant should be authorised to undertake proposed activities as specified below.

ACTIVITIES AUTHORISED

By virtue of the powers conferred on it by the National Environmental Management Act, 1998 (Act No. 107 of 1998) and the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008), the Department hereby grants the authorisation to **Tetra4 (Pty) Ltd** to undertake activities specified in Section 3 below and as described in the Environmental Impact Report and Environmental Management Programme (EIR&EMPR).

The granting of this authorisation is subject to compliance with conditions specified under section 5 of this authorisation.

1. DETAILS OF THE HOLDER OF THIS AUTHORISATION

Tetra4 (Pty) Ltd
Postnet Suite 610
Private Bag X10030
Randburg
2125

Contact Person: Mr Stefano Marani
Tel: +27 11792 4601
Fax: +27 11 792 4599
Email: stefano@renergen.co.za

2. DETAILS OF THE ENVIRONMENTAL ASSESSMENT PRACTITIONER

Environmental Impact Management Services (Pty) Ltd
 P O Box 2083
 Pinegowrie
 2123

Contact Person: Ms Nobuhle Hughes
 Tel: +27 11 789 7170
 Fax: +27 11 787 3059
 Email: nobuhle@eims.co.za

3. LIST OF ACTIVITIES AUTHORISED

The listed activities under NEMA EIA Regulations, 2014 - Government Notices R983, R984 and R985, and National Environmental Management: Waste Act (NEMWA): GN 921 as prescribed in the table below are authorised:

Activity	Listed Activity Description	Associated Proposed Activity
NEMA EIA REGULATIONS, 2014		
Listed Activities – GN R983 – Listing Notice 1		
12 (x) (xii)	<p>The development of-</p> <ul style="list-style-type: none"> (i) canals exceeding 100 square metres in size; (ii) channels exceeding 100 square metres in size; (iii) bridges exceeding 100 square metres in size; (iv) dams, where the dam, including infrastructure and water surface area, exceeds 100 square metres in size; (v) weirs, where the weir, including infrastructure and water surface area, exceeds 100 square metres in size; (vi) bulk storm water outlet structures exceeding 100 square metres in size; (vii) marinas exceeding 100 square metres in size; (viii) jetties exceeding 100 square metres in size; (ix) slipways exceeding 100 square metres in size; (x) buildings exceeding 100 square metres in size; (xi) boardwalks exceeding 100 square metres in size; or (xii) infrastructure or structures with a physical footprint of 100 square metres or more where such development occurs- <ul style="list-style-type: none"> (a) within a watercourse; (b) in front of a development setback; or (c) development setback exists, within 32 metres of a watercourse, measured the edge of a watercourse; - excluding- (aa) the development of infrastructure or structures within existing ports or harbours that will not increase the development footprint of the port or harbour; (bb) where such development activities are related to the 	Numerous watercourses (rivers, wetlands, etc.) are present in the vicinity of the study area within which some of the proposed infrastructure may be located including possible river crossings.

Activity	Listed Activity Description	Associated Proposed Activity
	development of a port or harbour, in which case activity 26 in Listing Notice 2 of 2014 applies; (cc) activities listed in activity 14 in Listing Notice 2 of 2014 or activity 14 in Listing Notice 3 of 2014, in which case that activity applies; (dd) where such development occurs within an urban area; or (ee) where such development occurs within existing roads or road reserves.	
19 (i)	The infilling or depositing of any material of more than 5 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 5 cubic metres from- (i) a watercourse; (ii) the seashore; or (iii) the littoral active zone, an estuary or a distance of 100 metres inland of the high-water mark of the sea or an estuary, whichever distance is the greater but excluding where such infilling, depositing, dredging, excavation, removal or moving- (a) will occur behind a development setback; (b) is for maintenance purposes undertaken in accordance with a maintenance management plan; or (c) falls within the ambit of activity 21 in this Notice, in which case that activity	Numerous watercourses (rivers, wetlands, etc.) are present in the vicinity of the study area within which some of the proposed infrastructure may be located, and thus require infilling as well as dredging, excavation, or removal of soil or pebbles from a watercourse (e.g. trenching and infilling or depositing of material at river crossings for pipelines).
24(ii)	The development of- (i) a road for which an environmental authorisation was obtained for the route determination in terms of activity 5 in Government Notice 387 of 2006 or activity 18 in Government Notice 545 of 2010; or (ii) a road with a reserve wider than 13,5 meters, or where no reserve exists where the road is wider than 8 metres; but excluding- (a) roads which are identified and included in activity 27 in Listing Notice 2 of 2014; or (b) roads where the entire road falls within an urban area.	Access roads will be required at the combined helium and CNG plant and these will need to be wide enough to accommodate tankers and/or trailers for product removal. Further smaller access roads will be required to access the individual exploration and production wells and associated infrastructure.
30	Any process or activity identified in terms of section 53(1) of the National Environmental Management: Biodiversity Act, 2004 (Act No. 10 of 2004).	There are currently no gazetted listed threatening processes as per Section 53(1) of the National Environmental Management Biodiversity Act, 2004. However, should such a list be gazetted during the EIA process or prior to the commencement of construction, this activity may apply.
34	The expansion or changes to existing facilities for any process or activity where such expansion or changes will result in the need for a permit or licence or an amended permit or licence in terms of national or provincial legislation governing the release of emissions or pollution, excluding- (i) where the facility, process or activity is included in the list of waste management activities published in terms of section 19 of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) in which case the National Environmental Management: Waste Act, 2008 applies; or (ii) the expansion of or changes to existing facilities for the treatment of effluent, wastewater or sewage where the capacity will be increased by less than 15 000 cubic metres per day.	Venting of raw feed gas will be at approximately 1 cubic meter (0.97) per second for a maximum of 20 seconds, as and when, required for safety purposes. However, the venting will not trigger the requirement for an atmospheric emissions license (AEL). There will be a requirement for the storage and handling of petroleum products (helium and CNG) which at full production capacity, will be processing approximately 170 cubic metres of raw feed gas per day and storing approximately 685 cubic meters of combined helium and CNG being potentially stored. The exact volumes to be processed and stored will be finalised during the EIA phase at which stage should the listed activity be deemed not applicable, this will be excluded from the EA application.
56	The widening of a road by more than 6 metres, or the lengthening of a road by more than 1 kilometre- (i) where the existing reserve is wider than 13,5 meters; or (ii) where no reserve exists, where the existing road is wider than 8	The well sites will not require access roads of this size but the combined helium and CNG plant may require widening of existing roads to accommodate the tankers and/or trailers

Activity	Listed Activity Description	Associated Proposed Activity
	metres; excluding where widening or lengthening occur inside urban areas.	transporting the product.
59	The expansion and related operation of facilities or infrastructure for the refining, extraction or processing of gas, oil or petroleum products where the installed capacity of the facility will be increased by 50 cubic metres or more per day, excluding facilities for the refining, extraction or processing of gas from landfill sites.	Existing operations may need to be expanded/ altered to align with the proposed Cluster 1 project, not necessarily at Cluster 1 but at full gas production capacity.
67	<p>Phased activities for all activities-</p> <p>(i) listed in this Notice, which commenced on or after the effective date of this Notice; or</p> <p>(ii) similarly listed in any of the previous NEMA notices, which commenced on or after the effective date of such previous NEMA Notices; where any phase of the activity may be below a threshold but where a combination of the phases, including expansions or extensions, will exceed specified threshold; excluding the following activities listed in this Notice- 17(i)(a-d); 17(ii)(a-d); 17(iii)(a-d); 17(iv)(a-d); 17(v)(a-d); 20; 21; 22; 24(i); 29; 30; 31; 32; 34; 54(i)(a-d); 54(ii)(a-d); 54(iii)(a-d); 54(iv)(a-d); 54(v)(a-d); 55; 61; 62; 64; and 65.</p>	The proposed Cluster 1 study area contains 13 existing gas producing wells of which 6 more are proposed to be drilled thereby increasing throughput and gas production.
Listed Activities – GN R984 – Listing Notice 2		
4	The development of facilities or infrastructure, for the storage, or storage and handling of a dangerous good, where such storage occurs in containers with a combined capacity of more than 500 cubic metres.	Development of Cluster 1 will allow for approximately 685 cubic meters of combined helium and CNG being potentially stored. Product stored will be transported to consumers at weekly (5 days) intervals or sooner.
5	<p>The development and related operation of facilities or infrastructure for the refining, extraction or processing of gas, oil or petroleum products with an installed capacity of 50 cubic metres or more per day, excluding-</p> <p>(i) facilities for the refining, extraction or processing of gas from landfill sites; or (ii) the primary processing of a petroleum resource in which case activity 22 in this Notice applies.</p>	Cluster 1 will allow for the processing of approximately 23 cubic meters of feed gas per day. However, the processing capacity of the combined helium and CNG plant is 170 cubic metres of raw feed gas per day which will be reached when other well clusters are connected to the plant. It is envisaged that when operating at full capacity and with more than Cluster 1 operational, the combined helium and CNG plant can process and refine 2000 cubic meters of CNG and 13.6 cubic meters of helium per day.
6	<p>The development of facilities or infrastructure for any process or activity which requires a permit or licence in terms of national or provincial legislation governing the generation or release of emissions, pollution or effluent, excluding-</p> <p>(i) activities which are identified and included in Listing Notice 1 of 2014;</p> <p>(ii) activities which are included in the list of waste management activities published in terms of section 19 of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) in which case the National Environmental Management: Waste Act, 2008 applies; or</p> <p>the development of facilities or infrastructure for the treatment of effluent, wastewater or sewage where such facilities have a daily throughput capacity of 2000 cubic metres or less.</p>	Venting of raw feed gas will be at approximately 1 cubic meter (0.97) per second for a maximum of 20 seconds as and when required for safety purposes. However, the venting will not trigger the requirement for an atmospheric emissions license (AEL). There will be storage and handling of petroleum products (helium and CNG) which may trigger this listing. It is anticipated that Cluster 1 will allow for approximately 685 cubic meters of combined helium and CNG being potentially stored.
7(i)	<p>The development and related operation of facilities or infrastructure for the bulk transportation of dangerous goods-</p> <p>(i) in gas form, outside an industrial complex, using pipelines, exceeding 1000 metres in length, with a throughput capacity of more</p>	Cluster 1 will put through approximately 685 cubic metres of raw feed gas for processing which amounts to approximately 243.6 tons per month or 8.12 tons per day. However,

Activity	Listed Activity Description	Associated Proposed Activity
	<p>than 700 tons per day; (ii) in liquid form, outside an industrial complex, using pipelines, exceeding 1000 metres in length, with a throughput capacity of more than 50 cubic metres per day; or (iii) in solid form, outside an industrial complex, using funiculars or conveyors with a throughput capacity of more than 50 tons day.</p>	<p>the capacity of the combined helium and CNG plant is 170 cubic metres of raw feed gas per day which will be reached when other well clusters are connected to the plant. It is envisaged that when operating at full capacity and with more than Cluster 1 operational, the combined helium and CNG plant can process and refine 2000 cubic meters of CNG and 13.6 cubic meters of helium per day.</p>
15	<p>The clearance of an area of 20 hectares or more of indigenous vegetation, excluding where such clearance of indigenous vegetation is required for- (i) the undertaking of a linear activity; or (ii) maintenance purposes undertaken in accordance with a maintenance management plan.</p>	<p>A total of approximately 42 hectares of possible natural vegetation may need to be cleared for the placement of infrastructure including access roads with a 4 m servitude.</p>
18	<p>Any activity including the operation of that activity which requires an exploration right as contemplated in section 79 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002), including associated infrastructure, structures and earthworks.</p>	<p>Cluster 1 will require the drilling of additional wells (in close proximity, where possible) to existing wells to increase gas yields.</p>
22	<p>Any activity including the operation of that activity associated with the primary processing of a petroleum resource including winning, extraction, classifying, concentrating, water removal, but excluding the refining of gas, oil or petroleum products in which case activity 5 in this Notice applies.</p>	<p>Water in the form of condensate will be removed at various intervals during the gas processing. Also to be removed during processing are hydrocarbons and mercury. The combine Helium and CNG plant will also involve processing towards the separation of helium from the CNG, and storage of the helium and CNG prior to collection.</p>
28	<p>Commencing of an activity, which requires an atmospheric emission license in terms of section 21 of the National Environmental Management: Air Quality Act, 2004 (Act No. 39 of 2004), excluding – (i) activities which are identified and included in Listing Notice 1 of 2014; (ii) activities which are included in the list of waste management activities published on terms of section 19 of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) in which case the National Environmental Management: Waste Act, 2008 applies; or the development of facilities or infrastructure for the treatment of effluent, wastewater or sewage where such facilities have a daily throughput capacity of 2000 cubic metres or less.</p>	<p>Venting of raw feed gas will be at approximately 1 cubic meter (0.97) per second for a maximum of 20 seconds as and when required for safety purposes. However, the venting will not trigger the requirement for an atmospheric emissions license (AEL). However, there will be storage and handling of petroleum products (helium and CNG) which may trigger this listing. It is anticipated that Cluster 1 will allow for approximately 685 cubic meters of combined helium and CNG being potentially stored. The exact volumes of helium and CNG to be stored will be finalised during the EIA phase at which stage should the listed activity be deemed not applicable, this will be excluded from the EA application.</p>
<p>NEMA listed activities - Government Notice R985 – Listing Notice 3</p>		
4	<p>The development of a road wider than 4 meters with a reserve less than 13.5 meters</p>	<p>The well sites will not require access roads of this size but the combined helium and CNG plant may require new wide access roads to accommodate the tankers and / or trailers transporting the product. The study area, including the proposed combined helium and CNG plant location alternatives, is within or in close proximity to an endangered ecosystem of Vaal Vet Sandy Grassland.</p>

Activity	Listed Activity Description	Associated Proposed Activity
10	The development of facilities or infrastructure for the storage, or storage and handling of a dangerous good, where such storage occurs in containers with a combined capacity of 30 but not exceeding 80 cubic meters.	<p>Development of Cluster 1 will allow for approximately 685 cubic meters of combined helium and CNG being potentially stored. Product stored will be transported to consumers at weekly (5 days) intervals or sooner.</p> <p>The exact volumes to be processed and stored will be finalised during the EIA phase at which stage should the listed activity be deemed not applicable, this will be excluded from the EA application.</p>
12	The clearance of an area of 300 square meters or more of indigenous vegetation except where such clearance of indigenous vegetation is required for maintenance purposes undertaken in accordance with a maintenance management plan.	The proposed development footprint is within an area with an ecosystem classified as Endangered and in the vicinity of an ecosystem classified as Vulnerable within which a protected Nature Reserve (H.J. Joel Private Nature Reserve) occurs. Although the definitive final development footprint is not yet confirmed, it is likely that this activity may be triggered.
14 (x) (xii)	<p>The development of -</p> <ul style="list-style-type: none"> (i) canals exceeding 10 square meters in size; (ii) channels exceeding 10 square meters in size; (iii) bridges exceeding 10 square meters in size; (iv) dams, where the dam, including infrastructure and water surface area exceeds 10 square meters in size; (v) weirs, where the weir, including infrastructure and water surface area exceeds 10 square meters in size; (vi) bulk storm water outlet structure exceeding 10 square metres in size (vii) marinas exceeding 10 square meters in size; (viii) jetties exceeding 10 square meters in size; (ix) slipways exceeding 10 square meters in size; (x) buildings exceeding 10 square meters in size; (xi) boardwalks exceeding 10 square metres in size; or (xii) infrastructure with a physical footprint of 10 square meters or more; where such development occurs- <ul style="list-style-type: none"> (a) within a watercourse; (b) in front of a development setback; or (c) if no development setback has been adopted, within 32 metres of a watercourse, measured from the edge of a watercourse; excluding the development of infrastructure or structures within existing ports or harbours that will not increase the development footprint of the port or harbour. 	The proposed development footprint is within an area with an ecosystem classified as Endangered and in the vicinity of an ecosystem classified as Vulnerable within which a protected Nature Reserve (H.J. Joel Private Nature Reserve) occurs. Although the definitive final development footprint is not yet confirmed, it is likely that this activity may be triggered.
15	The transformation of land bigger than 1000 square meters in size, to residential, retail, commercial, industrial or institutional use, where, such land was zoned open space, conservation or had an equivalent zoning, on or after 02 August 2010.	The zoning within the proposed study area and the definitive final development footprint is not yet confirmed, but it is likely that this activity may be triggered.
16	The widening of a road by more than 4 meters; or the lengthening of a road by more than 1 kilometre.	Access roads will be required at the combined helium and CNG plant and these will need to be wide enough to accommodate tankers and / or trailers for product removal. The study area, including the proposed combined helium and CNG plant location alternatives, is within or in close proximity to an endangered ecosystem of Vaal Vet

Activity	Listed Activity Description	Associated Proposed Activity
		Sandy Grassland.
NEMWA – GN 921: Listed Activities		
Category B: 4(2)	The reuse or recycling of hazardous waste in excess of 1 ton per day, excluding reuse or recycling that takes place as an integral part of an internal manufacturing process within the same premises.	For the unconventional wells, waste water in the form of condensate will be knocked out through dehydration at the knockout drum/ coalescer, the waste water goes to oil/ water separators prior to being fed through to a Jojo tank where it will be remediated with microbes. Once remediated water will be decanted into another Jojo tank to be tested for compliance with livestock watering and irrigation standards prior to being discharged or reused.
Category B: 4 (4)	The treatment of hazardous waste in excess of 1 ton per day calculated as a monthly average; using any form of treatment excluding the treatment of effluent, wastewater or sewage.	
Category C: 5(2)	The storage of hazardous waste at a facility that has the capacity to store in excess of 80m ³ of hazardous waste at any one time, excluding the storage of hazardous waste in lagoons or temporary storage of such waste.	For the unconventional wells, waste water in the form of condensate will be knocked out through dehydration at the knockout drum/ coalescer, the waste water goes to oil/ water separators prior to being fed through to a Jojo tank where it will be remediated with microbes. Once remediated water will be decanted into another Jojo tank to be tested for compliance with livestock watering and irrigation standards prior to being discharged or reused. For conventional wells however, the substantial volumes of formation water will be piped (approximately 1000 litres per hour) from the wells to the licensed slimes dam at Harmony Gold mine.

Under the listed activities, the holder of the authorisation is authorised to conduct the following activities within the area described in section 4.

3.1 Drilling

Drilling (percussion or diamond drilling) of up to 6 new exploration wells, and if successful, their conversion into production wells for inclusion to the cluster 1 gas production network. The surface footprint of each well is approximately 30m x 30m in extent.

3.2 Well site connection

Each of the thirteen existing wells and six (6) exploration wells will have a wellhead to boost gas recovery, and the well will be connected via a pipeline to an inline gas booster or centralized infield reciprocating compressor. Pipeline to be used will be a combination of high pressure steel and low pressure high density

polyethylene (HDPE) which will be installed at a minimum depth of 1.1m below ground or plough line. The footprint of each production site would be approximately 10m x 10m with wellhead. Where, a localized booster compressor is required the footprint per well will be approximately 30m x 20m. Furthermore, the footprint for the proposed centralized reciprocating compressor including the gas drier will be approximately 60m x 60m.

3.3 Combined Helium and CNG plant

The feed gas from either the booster or centralized reciprocating infield compressors will be sent to the proposed combined helium and CNG plant with a processing capacity of 3 million standard cubic feet per day of natural gas with a helium content of 2.36 Vol %. The footprint of the combined Helium and CNG plant will be approximately 100m X 100m.

3.4 Surface Infrastructure

Infrastructure associated with the aforementioned activities include: access roads, pipe markers, gas driers, fencing, helium storage and dispensing units, CNG storage and dispensing units, chemical storage, temporary hazardous and general waste storage, mobile offices and ablution facilities.

4. LOCATION OF THE APPLICATION AREA

The proposed cluster 1 project is located approximately 20 km south west of Virginia Town, within the Matjhabeng and Masilonyana Local Municipalities in Free State Province. The application area is approximately 14 316 ha in extent, constituting 59 farms and farm portions (see appendix 2 concerning the affected farm properties and associated SG codes).

5. CONDITIONS OF THE ENVIRONMENTAL AUTHORISATION

5.1 SCOPE OF THE AUTHORISATION

- 5.1.1 This authorisation authorises the holder to undertake all the activities prescribed under section 3 above. The location alternatives HP1 located next to the HDR1 well and HP2 located at Sibanye Shaft 1 for the combined helium and CNG plant are approved. Furthermore, the preferred pipeline route alternatives P2 and P4 which connect all the existing and new wells to HP1 and HP2 respectively (as described in the EIR) are also approved.
- 5.1.2 The authorised activities must only be carried within the application area specified in section 4 above and appendix 2.

- 5.1.3 The holder of this authorisation (hereafter referred to as the holder) is responsible for ensuring compliance with the conditions of this authorisation, and recommendations made in the Environmental Impact Assessment Report (EIR) and Environmental Management Programme Report (EMPR) dated 03rd of May 2017.
- 5.1.4 Any person(s) acting on behalf of the holder, inclusive of contractor(s), subcontractor(s), consultant, and employee are also subject to the conditions of this authorisation. This condition however does not exonerate the holder from its accountability and responsibility to ensure compliance with the conditions of this environmental authorization.
- 5.1.5 Any changes to, or deviations from, and amendments to the proposed activities, conditions of this authorisation, and recommendations in the S&EIR and EMPR must be approved, in writing, by the Department before such changes or deviations are effected. The Department reserves the right to request the submission of information deemed necessary to assess and evaluate the significance and impacts such changes, deviations and amendments before such changes, deviations and amendments are authorized or not. Any changes, deviations and amendments may be subject to the provisions of Chapter 5 of the EIA Regulations, 2014 pertaining to the amendments of the authorisation and EMPR.
- 5.1.6 This authorisation does not absolve the holder from complying with any other statutory obligations that may be applicable to the proposed activities.
- 5.1.7 The holder of this authorisation must apply for an amendment of this authorisation in the case of a change of ownership or transfer of rights and/or obligations.

5.2. NOTIFICATION AND APPEAL OF AUTHORISATION

- 5.2.1 The holder must, in writing, within fourteen days of the date of this amended authorisation, notify all registered interested and affected parties (I&APs) of the outcome of the application.
- 5.2.2 The notification contemplated above must amongst other issues:
- 5.2.2.1 Stipulate the date of the decision, and the date of issue of the amended authorisation.
 - 5.2.2.2 Provide reasons for the decision, included in Appendix 1 of this amended authorisation.
 - 5.2.2.3 Inform registered I&APs of the Appeals Procedure provided for in terms of the National Environmental Management Act, 1998: National Appeals Regulations (GN R 993 of 08 December 2014).
 - 5.2.2.4 Draw the attention of the I&APs to the manner in which they may access the decision, including obtaining the copy of the authorisation.

5.3 COMMENCEMENT OF THE ACTIVITY(S)

- 5.3.1 The authorised activities shall not commence within 20 days of the date of this authorisation, pending potential lodgement of appeal(s).
- 5.3.2 Where an appeal is lodged against the decision by any party, the amended authorisation or any provision or condition of the amended authorisation will be suspended in accordance with section 43(7) of the National Environmental Management Act, 1998; and as such you may not commence with any activity, unless authorised in writing by the competent authority and/or the decision on the appeal has been taken.
- 5.3.3 A thirty (30) day written notice must be given to the Petroleum Agency SA prior to the commencement of any of the authorised production activities.
- 5.3.4 The authorized activities must commence within a period of 5 years from the date of issue of this authorisation. If commencement of the authorized activities does not occur within the said period, the authorisation lapses, and where the holder still intends undertaking the authorized activity(s), a new application for authorisation in terms of the EIA Regulations, 2014 must be obtained.
- 5.3.5 Any requests for extension of the commencement period of this authorisation should be lodged with the competent authority before the expiry of the environmental authorisation in accordance with amendments to Regulation 28 (1) of EIA Regulations, 2014.

5.4 MANAGEMENT, MONITORING AND AUDITING OF OPERATIONS INCLUDING REPORTING REQUIREMENTS

- 5.4.1 The Environmental Management Programme (EMPR) submitted with the Environmental Impact Assessment Report (EIR) is hereby approved. It is hence mandatory for the holder to implement all recommendations and management measures stipulated in the EMPR throughout all the phases of the proposed production activities.
- 5.4.2 Any non-compliance with the EMPR constitutes non-compliance with this authorisation, and any non-compliance with this authorisation may result in its suspension and may render the holder guilty of offence in terms of section 49A of NEMA, and may, if convicted, liable for penalties contemplated in section 49B (1) of NEMA.
- 5.4.3 Should there be changes in the operation and management of the authorized activities, the EMPR must be amended to accommodate those changes and submitted to the competent authority for approval before

implementation takes place. The amendment(s) to the EMPR must be done in accordance with Regulations 36 and 37 of the EIA Regulations: 2014.

- 5.4.4 The holder of the authorisation must implement necessary measures to ensure that operators, contractors and subcontractors have full awareness of the recommendations on the EMPR before commencing with any authorised activity.
- 5.4.5 The EMPR must be included in all contractual documentation entered thereto between the holder and contractor(s). Furthermore, a copy of the EMPR must be kept onboard the survey aircraft at all times.
- 5.4.6 The holder must before the commencement of the authorised activities, appoint an independent and experienced Environmental Control Officer (ECO) who will ensure that the conditions of this authorisation and provisions of the EMPR are implemented and adhered to.
- 5.4.7 The appointed ECO must, at drilling and construction stages (trenching and laying of pipelines and construction of the helium and CNG plant and associated infrastructure) submit monthly reports to the Petroleum Agency SA. Submission of quarterly environmental monitoring reports is also mandatory during production operations.
- 5.4.8 The holder must submit an environmental audit report to the Petroleum Agency SA biennially (twice a year) carried out by an independent and qualified environmental practitioner in accordance with Appendix 7 of the EIA Regulations, 2014. At a minimum, the audit report must evaluate compliance with the conditions of this authorisation and provisions of the EMPR; identify and assess any new impacts and risks from undertaking the authorised activities; identify shortcomings in the EMPR; and identify if findings of the previous audit were addressed including an opinion on the effectiveness of preventive and corrective actions implemented.
- 5.4.9 Where shortcomings in terms of Regulation 34(4) are identified, the holder must submit recommendations to amend the EMPR in order to rectify any shortcomings that may have been identified in the audit report contemplated in 5.4.8 above.
- 5.4.10 The holder of this authorisation must keep all records relating to monitoring and auditing and make them available for inspection to any relevant and competent authority in respect of this development.

5.5 SPECIFIC CONDITIONS

- 5.5.1 The holder or the appointed ECO must within 30 days prior to the commencement of the authorised production activities, distribute notifications to all affected land owners informing them of the operational plans. The said notification must amongst other issues include the commencement and anticipated completion date(s) of each of the proposed activities, details of the contractors including subcontractors,

- sketch plan showing the operational areas, and procedure to lodge complaints and report any environmental and safety matters arising from the operations.
- 5.5.2 If the final positions of the new wells and compressor site(s) as described in the EIR are altered, the new and final positions must be placed within the assessed 1 km buffer area, and must avoid environmentally sensitive areas, including areas of historical/cultural/heritage significance.
- 5.5.3 Drilling fluids and muds must strictly be water-based and biodegradable. In this regard, the holder is required to submit Material Safety Data Sheets for drilling fluids to the Petroleum Agency SA at least 60 days before drilling operations commence.
- 5.5.4 Any excavations exceeding a depth of 3 meters, traversing the potentially sensitive alluvial deposits at Bosluispruit and Sand Rivers and unweathered sedimentary bedrock, must be done under the supervision of an independent and qualified Paleontologist.
- 5.5.5 The holder must obtain land use and access agreements prior to the commencement of the proposed activities, and submit copies of such to the Petroleum Agency SA at least 30 days before the commencement of the authorised activities. Furthermore, in order to avoid conflict of interests with the current land-use activities, the applicant must consult on an ongoing basis with the affected surface landowners and keep them informed of the project development.
- 5.5.6 The holder must develop a grievance mechanism and claims procedure and share the contents thereof with affected landowners before the authorised operations commence. A copy of the grievance mechanism and claims procedure, including proof of communication with affected landowners must be submitted to the Petroleum Agency SA at least 30 days before the commencement of the authorised activities.
- 5.5.7 The holder must undertake an asset and infrastructure baseline study, in consultation with all affected landowners, before the authorised activities commence, and submit the report in question to the Petroleum Agency SA at least 30 days before authorised activities commence.
- 5.5.8 The holder must convene a special meeting with landowners and communities before operations commence to ensure that they understand the technical and safety aspects of the proposed operations. Periodic feedback meetings with affected landowners and relevant regulatory authorities on the progress of operations, compliance status and to address stakeholders' issues concerning the project must take place.
- 5.5.9 The holder must develop a traffic safety plan especially for the turn- offs from the R30 in consultation with the relevant Roads Authority in order to ensure that the safety of road users is not compromised.
- 5.5.10 Appropriate notification signs, warning the communities about the hazards around sites including the presence of heavy vehicles, must be erected at construction and operational sites.

- 5.5.11 Wastewater produced during drilling operations and gas processing operations must be stored in above ground storage containers or tanks, and must be tested and, where necessary, treated before disposal at an appropriate or licensed disposal facility.
- 5.5.12 An integrated waste management approach based on waste minimization must be implemented and must incorporate waste avoidance, reduction, recycling, treatment, re-use and disposal where appropriate. The holder must therefore develop an integrated waste management plan for implementation during operations. The said must be submitted to the Petroleum Agency SA at least 60 days before authorised activities commence.
- 5.5.13 Waste storage sites must have impermeable and chemical resistant floors and must be covered or roofed to prevent direct sunlight or rain water from getting in contact with the waste.
- 5.5.14 The storage of hydrocarbons and/or chemicals and any operating equipment with hydrocarbons and/chemicals must have bund walls with adequate capacity to contain maximum volume that is stored or contained.
- 5.5.15 The holder must develop a storm water management plan for the combined helium and CNG plant, and must submit such to the Petroleum Agency SA at least 60 days before the operation of the plant commences.
- 5.5.16 Potentially occurring protected plant species such as *Merwillia plumbea* and *Crinum bulbispermum* and protected tree species such as *Acacia Erioloba* must not be removed or disturbed unless necessary permission is granted by the relevant departments i.e. Department of Environmental Affairs and Department of Agriculture, Fisheries and Forestry.
- 5.5.17 The holder must develop and implement sound groundwater monitoring programme(s) that will ensure that potential impacts of gas production on ground water levels and quantity are prevented and/or managed. The programme to be developed must be submitted to the Agency at least 60 days before authorised activities commence.
- 5.5.18 The integrity of the pipelines is crucial in preventing gas leakages or explosions. The holder must develop inspection mechanisms for the proposed production pipelines and submit such to the Petroleum Agency SA at least 30 days before production operations (gas extraction and transportation to the production plant) commence.
- 5.5.19 Emergency incidents must be addressed and reported to the Petroleum Agency SA in accordance with section 30 of NEMA. In addition, the holder is required to notify the Petroleum Agency SA within 24 hours of the occurrence of an emergency incident.

- 5.5.20 The holder must develop emergency preparedness and response plans for responding to potential emergency incidents and submit such to the Petroleum Agency SA, at least 60 days before commencement of the authorised activities.
- 5.5.21 All recommended mitigation measures included in the EIR dated 03rd of May 2017 are deemed to be the conditions of the EA and must therefore be adhered to.

5.6 GENERAL

- 5.6.1 A copy of the authorisation and the EMPR must be kept onsite to ensure appropriate implementation of the mitigation measures.
- 5.6.2 The Department shall not be responsible for any damages or losses suffered by the holder in an instance where the operation is temporarily stopped for reasons of non-compliance with the conditions as set out herein.
- 5.6.3 In view of the above, and having taken into consideration environmental management principles as set out in section 2 of NEMA, and information presented in the EIR and EMPR, and subject to compliance with conditions of the EA and recommendations of the EMPR, the Department is satisfied that the proposed activities will not be in conflict with the objectives of the Integrated Environmental Management set out in Chapter 5 of NEMA and will not result in any detrimental risks to the environment and public. The authorisation is accordingly granted.



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SEIPATI SILVIA DHLAMINI

DEPUTY DIRECTOR-GENERAL: MINERAL REGULATION

DATE OF THE AUTHORISATION: 21/09/2017

ANNEXURE C

APPENDIX 1

REASONS FOR DECISION

1. Information considered in making the decision

All the information presented to the Petroleum Agency SA was taken into account in reaching the decision. The information considered include amongst others –

- 1.1 The provisions of Chapter 5 of the NEMA which relates to the Integrated Environmental Management and section 2 NEMA principles, the EIA Regulations, 2014, the provisions of NEMWA and relevant NEMA regulations and guidelines.
- 1.2 The information contained in the application for authorisation received by the Petroleum Agency dated 20 October 2016 and its amendment date 24 November 2016.
- 1.3 The information contained in the Scoping Report dated 08 December 2016.
- 1.4 The information contained in the EIR and EMPR dated 03 May 2017.
- 1.5 Comments received from the National Department of Water & Sanitation, South African Heritage Resources Agency, National Department of Environmental Affairs, and South African National Roads Agency Limited included in the EIR dated 03 May 2017.
- 1.6 The results of the Public Participation Process submitted with EIR dated 03 May 2017.
- 1.7 The information contained in the following specialist reports included in the EIR dated 03 May 2017:
 - 1.7.1 Air Quality Impact Assessment Report prepared by Airshed Planning Professionals;
 - 1.7.2 Aquatic Ecology & Wetland Impact Assessment Report prepared by Imperata Consulting cc;
 - 1.7.3 Ecology Impact Assessment Report prepared by David Hoare Consulting cc;
 - 1.7.4 Economics Impact Assessment Report prepared by Strategy4Good;
 - 1.7.5 Heritage Impact Assessment Report prepared by PGS Heritage;
 - 1.7.6 Surface Water Impact Assessment Report prepared by GCS Water and Environmental Consultants;
 - 1.7.7 Noise Impact Assessment Report prepared by Enviro-Acoustic Research;
 - 1.7.8 Hydrogeology Study prepared by Irene Lea Environmental and Hydrogeology cc;
 - 1.7.9 Social Impact Assessment Report prepared by Equispectives Research & Consulting Services;
 - 1.7.10 Soils and Agricultural Potential Report prepared by Agricultural Research Council - Institute for Soil, Climate and Water; and
 - 1.7.11 Closure and Rehabilitation Report prepared by BEAL Consulting Engineers.

2. Submission and Consideration of the Scoping Report

In line with Regulation 21(1) of the EIA Regulations, 2014, the applicant submitted a scoping report within 44 days from the date of receipt of an application for an integrated environmental authorisation i.e. on the 08 December 2016. The scoping report was considered and evaluated in accordance with the requirements of Regulations 21 and 22, and appendix 2 of the EIA Regulations, 2014, was duly accepted (with conditions) on the 15th of February 2017 based on the following:

2.1 The scoping report was subjected to a public consultation process for a 30-day period and incorporated comments received from interested and affected parties, the competent authority (Petroleum Agency SA in this regard), and state departments administering laws relating matters affecting the environment and organs of states.

2.2 In addition, the public consultation process carried out adhered to the requirements of Regulations 41 and 44 of the EIA Regulations. In this regard, interested and affected parties were notified of the application through various means such as onsite notices, newspaper advertisements, and correspondences (letters/emails).

2.3 The scoping report contained information set out in Appendix 2 of the EIA Regulations and in this regard, relevant policies and legislation were identified; the need and desirability of the proposed project motivated and asserted, alternatives considered, baseline environment identified and assessed, preliminary impacts identified and assessed and suitable mitigation measures proposed; and key issues to be addressed in EIA phase identified.

3. Submission of the Environmental Impact Assessment Report (EIR) and Environmental Management Programme (EMPR)

3.1 Regulation 23(1) (a) and (b) requires the applicant to submit:

- (a) an environmental impact report (EIR) inclusive of any specialist reports, and an EMPR within 106 days, which must have been subjected to a public consultation process of at least 30 days and reflects incorporation of comments received;

3.2 The EIR, inclusive of specialist reports, and an EMPR were received by the Petroleum Agency SA within the prescribed submission date i.e. the 3rd of May 2017. The said reports were subjected to a public consultation process of 30 days and included comments received from interested and affected parties.

4. Consideration of the EIR and EMPR

Regulation 18 requires the competent authority to take into consideration section 24O and 24(4) of the Act when considering the application for EA, the need for desirability of undertaking the proposed activity, any guideline published in terms of section 24J of the Act. Regulation 23(3) further provides that the EIR must contain all information set out in Appendix 3 and must address the requirements as determined in the regulations pertaining to the financial provisions for rehabilitation, closure and post closure of operations; and Regulation 23(4) requires the EMPR to contain all information set out in Appendix 4 of the EIA Regulations.

The EIR and EMPR were assessed taking into consideration the aforementioned requirements, and the key significant issues that resulted in the Department's decision are set out as follows:

- 4.1 In terms of the need and desirability of the project, where the proposed production activities become successful, CNG as a cleaner fossil fuel energy source would contribute in reducing greenhouse gas effects; opportunities for business ventures to local companies provided; contribution to South Africa's energy independence and security, and ultimately SA's GDP realized; and local community developed and empowered.
- 4.2 The public consultation process undertaken by the EAP which includes notifying and registering interested and affected parties, advertising the proposed project, subjecting Scoping and EIR reports to a 30 day commenting period, consulting with affected landowners, notifying various states departments and organs of states, and addressing comments received from all interested and affected parties was in line with the requirements of EIA Regulations, 2014 and related guidelines.
- 4.3 The Environmental Impact Assessment process as prescribed by the EIA Regulations, 2014 was adhered to by the EAP and this includes identification and assessment of the applicability of relevant legislation, guidelines and policies. The undertaken process is deemed satisfactory.
- 4.4 The environmental attributes associated with the development alternatives were thoroughly identified and assessed by the specialists; and the potential impact on cultural and heritage, social, economic, hydrology, hydrogeology, wetland and aquatic ecology, ecology, soil and agricultural potential, noise, and air quality were addressed.
- 4.5 The methodology used to assess and evaluate potential impacts has provided a comprehensive impact assessment and provided clarity on potential impacts before and after mitigation.

4.6 The environmental impacts associated with the proposed activities will be addressed by the implementation of the recommended mitigation measures and the recommended mitigation measures are aligned with identified impacts.

4.7 The majority of the proposed production activities i.e. drilling, connection of well sites, installation of gas booster and reciprocating infield compressors and construction of combined Helium and CNG plant are an extension of the existing right and the majority of the associated impacts on the environment are classified to be of low significance post mitigation. However, the majority of potential social and economic impacts (both positive and negative impacts) were assessed to range from medium to high significance. The proposed management measures are however assessed to be effective in addressing the identified potential negative impacts.

4.8 The profile and details of the EAP with respect to the qualifications and experience in environmental impact assessments and related projects has given confidence in the EAP's ability and competence to carry out the EIA process.

4.9 The EIR dated 03rd May 2017 identified all legislation and guidelines that have been considered in the preparation of the EIR.

5. Key Findings

Careful consideration of information and factors listed above have thus resulted in the following conclusions:

5.1 All fundamental and procedural requirements prescribed in the NEMA and its regulations have been satisfied.

5.2 The identification and assessment of potential impacts of the proposed activities was adequately undertaken, and the proposed mitigation and management measures are aligned with potential impacts.

5.3 The implementation of mitigation measures during the operation will ensure that the activities to be carried out will not result to any detrimental impacts to the environment.

5.4 The public consultation process undertaken by the EAP adhered to the minimum requirements as prescribed under Chapter 6 'Public Participation' of the EIA Regulations, 2014 and related guidelines.

5.5 The findings of the site visit and verification carried out by the Petroleum Agency Representatives on the 13th of April 2017 revealed the following:

5.3 The implementation of mitigation measures during the operation will ensure that the activities to be carried out will not result to any detrimental impacts to the environment.

5.4 The public consultation process undertaken by the EAP adhered to the minimum requirements as prescribed under Chapter 6 'Public Participation' of the EIA Regulations, 2014 and related guidelines.

5.5 The findings of the site visit and verification carried out by the Petroleum Agency Representatives on the 13th of April 2017 revealed the following:

5.5.1 The proposed activities are within the boundaries of the production right area (production right bearing reference 12/4/07).

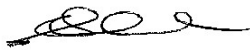
5.5.2 The dominant land use activities in the area include mining and agriculture, particularly crop cultivation and stock farming.

5.5.3 The area is characterized by sensitive environmental features but the proposed operations including the combined Helium and CNG plant will be located in areas with low environmental sensitivity.

5.5.4 The preferred sites for the combined Helium and CNG plant and pipeline routes pose minimal impact to the environment.

6. Conclusion

In view of the above, and having taken into consideration environmental management principles as set out in section 2 of NEMA, and information presented in the EIR and EMPR, and subject to compliance with conditions of the amended authorisation and recommendations of the EMPR, the Department is satisfied that the proposed activities will not be in conflict with the objectives of the Integrated Environmental Management set out in Chapter 5 of NEMA and will not result in any detrimental risks to the environment and public. The authorisation is accordingly granted.



SEIPATI SILVIA DHLAMINI

DEPUTY DIRECTOR-GENERAL: MINERAL REGULATION

DATE OF THE AUTHORISATION: 21/09/2017

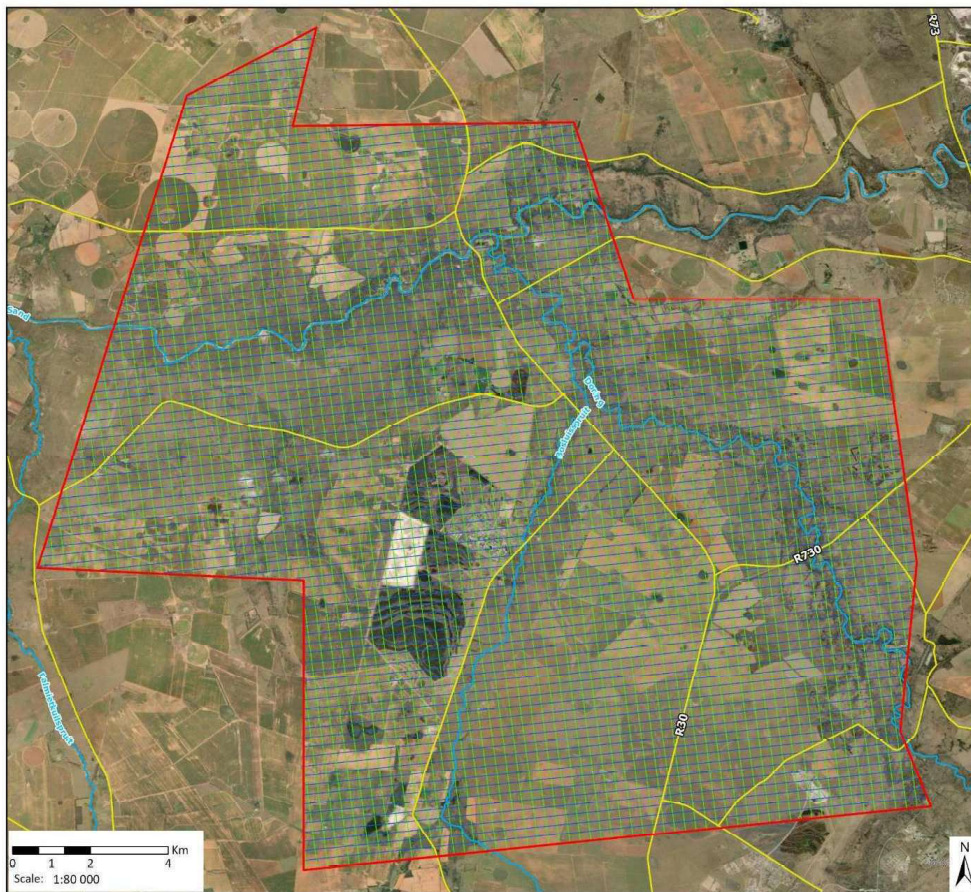
APPENDIX 2

Table 1: Affected Farm Properties

Farm Name	Portion	SG Codes
1. Brakspruit 121	RE 0	F03300000000012100000
2. Enkeldoorn 360	0	F03300000000036000000
3. Boschluis Spruit 278	RE 0	F03300000000027800000
4. Boschluis Spruit 278	1	F03300000000027800001
5. Boschluis Spruit 278	2	F03300000000027800002
6. Retreat 118	RE 0	F03300000000011800000
7. Nortier 361	1	F03300000000036100001
8. Jordaan 1	1	F0330000000000100001
9. Driekoppies 322	0	F03300000000042200000
10. Frisgewaag 550	Re 0	F03300000000055000000
11. Frisgewaag 550	1	F03300000000055000001
12. Frisgewaag 550	2	F03300000000055000002
13. Kleinpan 320	0	F03300000000032000000
14. Hendriena 563	0	F03300000000056300000
15. Glen Ross 562	Re 0	F03300000000056200000
16. Glen Ross 562	1	F03300000000056200001
17. Glen Ross 562	2	F03300000000056200002
18. Glen Ross 562	3	F03300000000056200003
19. Glen Ross 562	4	F03300000000056200004
20. Glen Ross 562	5	F03300000000056200005
21. Glen Ross 562	6	F03300000000056200006
22. Glen Ross 562	7	F03300000000056200007
23. Glen Ross 562	8	F03300000000056200008
24. Glen Ross 562	9	F03300000000056200009
25. Glen Ross 562	10	F03300000000056200010
26. Palmietkuil 328	RE 0	F03300000000032800000
27. Palmietkuil 328	RE 1	F03300000000032800001
28. Palmietkuil 328	4	F03300000000032800004
29. Palmietkuil 328	5	F03300000000032800005
30. Palmietkuil 328	6	F03300000000032800006
31. Kalkoenkrans 225	RE 1	F03300000000022500001

Farm Name	Portion	SG Codes
32. Kalkoenkrans 225	2	F03300000000022500002
33. Kalkoenkrans 225	4	F03300000000022500004
34. Damplaats 341	RE 0	F03300000000034100000
35. Zonderzorg 342	RE 0	F03300000000034200000
36. Zonderzorg 342	1	F03300000000034200001
37. Zoetendal 243	1	F03300000000024300001
38. Doornrivier 330	RE 1	F03300000000033000001
39. Doornrivier 330	2	F03300000000033000002
40. Excelsior 147	RE 0	F03300000000014700000
41. Excelsior 147	1	F03300000000014700001
42. Terra Blanda 155	0	F03300000000015500000
43. Blaauwdrift 188	3	F03300000000018800003
44. De Wilger 544	RE 0	F03300000000054400000
45. Helpmekaar 47	RE 0	F03300000000004700000
46. Helpmekaar 47	RE 1	F03300000000004700001
47. Helpmekaar 47	3	F03300000000004700003
48. Mond van Doornrivier 38	RE 0	F03300000000003800000
49. Mond van Doornrivier 38	2	F03300000000003800002
50. Middelpaas 583	0	F03300000000058300000
51. Grottkau 410	RE 0	F03300000000041000000
52. Goedemoed 143	RE 0	F03300000000014300000
53. Goedemoed 143	2	F03300000000014300002
54. Deeldam 106	RE 0	F03300000000010600000
55. Deeldam 106	4	F03300000000010600004
56. Leeuwbult 52	0	F03300000000005200000
57. Harmonie 579	0	F03300000000057900000
58. Erfdeel 188	2	F03500000000018800002
59. Tarka 656	RE 0	F03500000000065600000

APPENDIX 4: SITE LAYOUT PLAN



Seismic Source and Receiver Lines Map
1595 Tetra4 Seismic EA Amendment

Legend

- Cluster 2 Boundary Study Area
- NFEPA Rivers
- Seismic Source Lines
- Seismic Receiver Lines
- Roads

Data Sources:
 CSG: ESRI
 Coord System: GCS WGS 1984
 Datum: WGS 1984
 Units: Degree
 Ref: 1595_SeismicLines

Date: 2023/11/17
 EIMS Ref: 1595
 Compiled: JW
 Reviewed: BW
 Approved: LW



Locality Map:

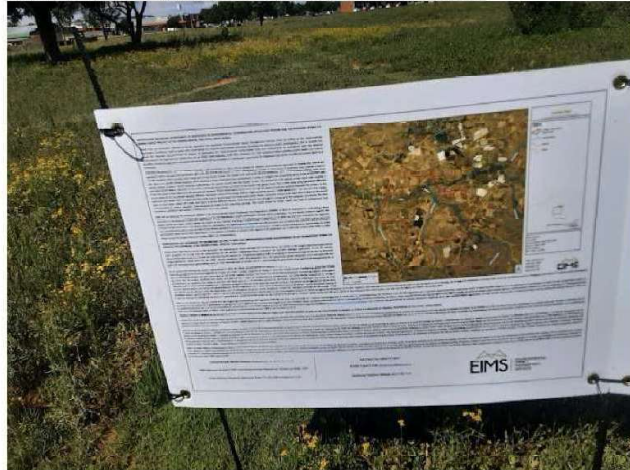


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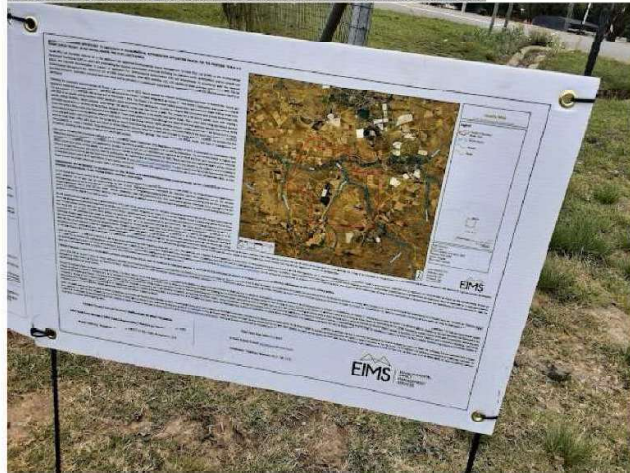
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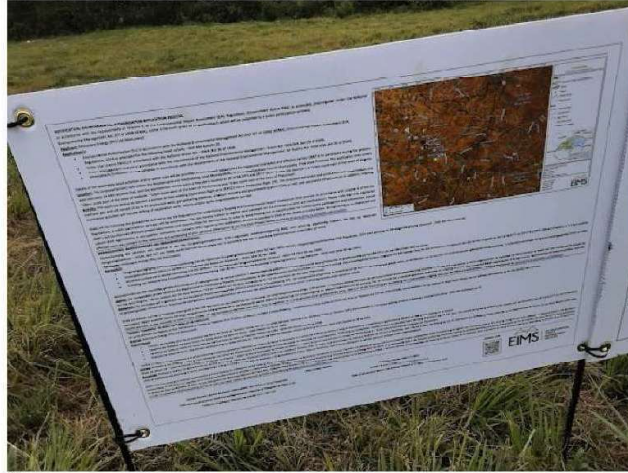


20

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A1 Notice: 18/11/2025 12:07:14; GPS Coordinates: -28.258256, 26.787243



17

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16

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6

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4

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7

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28

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23

A1 Notice: 19/11/2025 08:30:50; GPS Coordinates: -28.112640, 26.862138



29

A1 Notice: 19/11/2025 08:50:38; GPS Coordinates: -28.109683, 26.715499



2

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19

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8

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9

A1 Notice: 19/11/2025 09:49:02; GPS Coordinates: -28.210363, 26.659090



13

A1 Notice: 19/11/2025 09:57:10; GPS Coordinates: -28.210363, 26.659090



10

A1 Notice: 19/11/2025 10:26:53; GPS Coordinates: -28.150968, 26.712842



12 Helpmekaar boedery

A1 Notice: 19/11/2025 10:39:18; GPS Coordinates: -28.159236, 26.668951



11

A1 Notice: 19/11/2025 10:51:43; GPS Coordinates: -28.153359, 26.650151



25

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26

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3

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18

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14

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15

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30

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La rochelle 1

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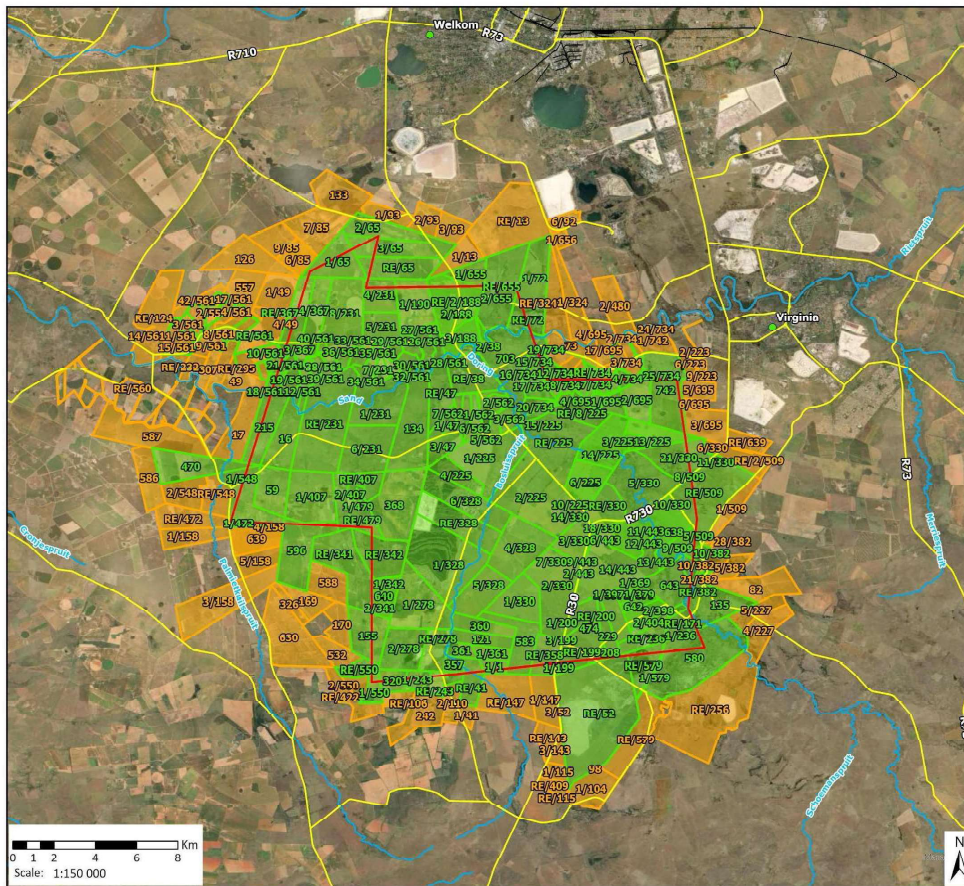


22

APPENDIX 6: PROOF OF APPLICATION

Not Applicable

APPENDIX 7: FARM PORTIONS AND DETAILS



Properties Map
1595 Tetra4 Seismic EA Amendment

Legend

- Cluster 2 Boundary Study Area
- NFFPA Rivers
- Towns
- Railway
- Roads
- Directly Affected Farm Portions
- Adjacent Farm Portions

Data Sources:
CSG; ESRI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1595 Properties

Date: 2023/11/17
EIMS Ref: 1595
Compiled: JW
Reviewed: BW
Approved: LW



APPENDIX 8: SSVR

APPLICANT:



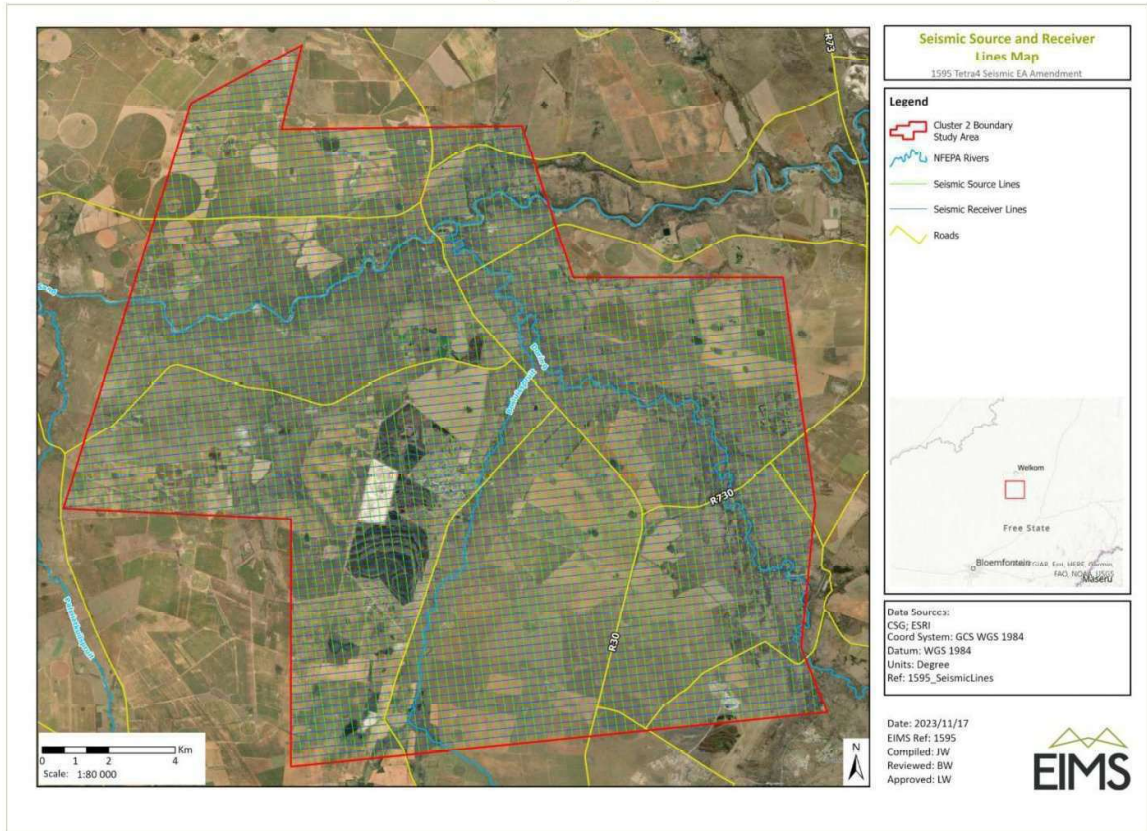
PREPARED BY:



Environmental Site Sensitivity and Verification Report

Site ID:	Tetra4 Seismic Survey Project	Consultant	Environmental Impact Management Services (Pty) Ltd (EIMS)
Location:	Virginia area, Free State Province	FAP	John von Mayer
Client representative:	Khalid Patel	Inspection Date:	

1. Background			
Background of the project:	Tetra4 wants to conduct an onshore 3-D seismic survey across the approved Cluster 2 area comprising approximately 27 000 ha in order to more accurately inform landowners of sites where exploration boreholes for the Cluster 2 expansion will be drilled.		
Project Aspects:	Details (provide specifications)	Location (DD MM SS)	
		Latitude	Longitude
❖ Seismic Survey	<ul style="list-style-type: none"> Approximately 27 000 ha to be surveyed. 30 Ton trucks fitted with M26 vibrators and 10 Ton trucks fitted with minivibrators will be used as sources of seismic stimulation. Geophones placed on the surface will be used as receiver devices. 	Extent of the approved Cluster 2 Production area	Extent of the approved Cluster 2 Production area
❖ Other:	<ul style="list-style-type: none"> Approximately 240 low point drains. Pigging stations: Inline pigging stations are installed to allow for regular cleaning and inspection of the pipelines. The pigging stations allow for insertion of probes or cleaning pigs (plugs) at regular intervals in order to perform regular maintenance. Approximately 14 pig launcher/receiver pairs will be installed. Approximately 100 km of access roads to the various project infrastructure. 	Various locations within the pipeline or well transects.	Various locations within the pipeline or well transects.
2. Site Layout Plan			



2. DEA Screening Tool Assessment

Aspect	Very High	High	Medium	Low
Agriculture Theme		X		
Animal Species Theme			X	
Aquatic Biodiversity Theme	X			
Archaeological and Cultural Heritage Theme		X		
Civil Aviation Theme		X		
Defence Theme				X
Paleontology Theme	X			
Plant Species Theme				X
Terrestrial Biodiversity Theme	X			



3. Site Assessment								
3.1 Gradient (indicate the general gradient characteristics of site)								
Aspect								
Study area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Is the site located on or in the immediate vicinity of any of the following:								
	Yes	No	Comment					
Erosion Channels or areas of severe erosion/ destabilized soils	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Existing agricultural lands occur within the study area.					
Wetlands (within 32m)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wetlands and rivers are crossed by pipelines.					
Unstable slopes or geological features (rocky outcrops)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Rocky outcrops occur in isolated areas.					
Bare areas	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Some bare areas in the form of agricultural lands occur within the study area.					
Other Sensitive or risk areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Existing roads, powerlines, farmhouses, and mining areas occur within the study area.					
Are any existing servitudes and structures directly or indirectly affected by the proposed sites and routes (e.g. Eskom, public road servitudes and restrictions- 60 m from National Road, farmer's water/irrigation supplies, etc.)?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Existing roads, powerlines, farmhouses, and mining areas occur within the study area.					
3.2 Vegetation								
Which of the listed descriptions best describes the general groundcover on and around the site?								
Natural veld - good condition <input checked="" type="checkbox"/>	Natural veld with scattered aliens <input checked="" type="checkbox"/>	Natural veld with heavy alien infestation <input checked="" type="checkbox"/>	Veld dominated by alien species <input checked="" type="checkbox"/>	Gardens <input type="checkbox"/>				
Sport field <input type="checkbox"/>	Cultivated land <input checked="" type="checkbox"/>	Paved surface <input checked="" type="checkbox"/>	Building or other structure <input checked="" type="checkbox"/>	Bare soil <input checked="" type="checkbox"/>				
Comments on vegetation composition:	The nature of the seismic acquisition means that impact on vegetation will be minimaql/insignificant as no clearance of soil or vegetation will occur.							
Comments on weed species/type	Certain areas within the proposed seismic survey area will contain alien and invasive plant species. The exact type and species will be confirmed during the specialist study.							
Land cover/ use description: Describe the land uses on the site								
Seismic survey infrastructure	The study area contains various land uses with agriculture being the predominant use. The Harmony Beatrix mine is also located within the study area (along with Tetra4 Cluster 1 Gas Production Project) as well as scattered residential areas,							



farmsteads, community settlements, roads, powerlines, Goldfields Game Ranch, etc.

4. General Comments and Recommendations

The proposed development includes infrastructure which is geographically spread out over a relatively large area and therefore the development may impact on the biodiversity, aquatic and socio-economic environment. A detailed impact assessment will therefore be undertaken which will be informed by various specialist studies as well as a public consultation process.



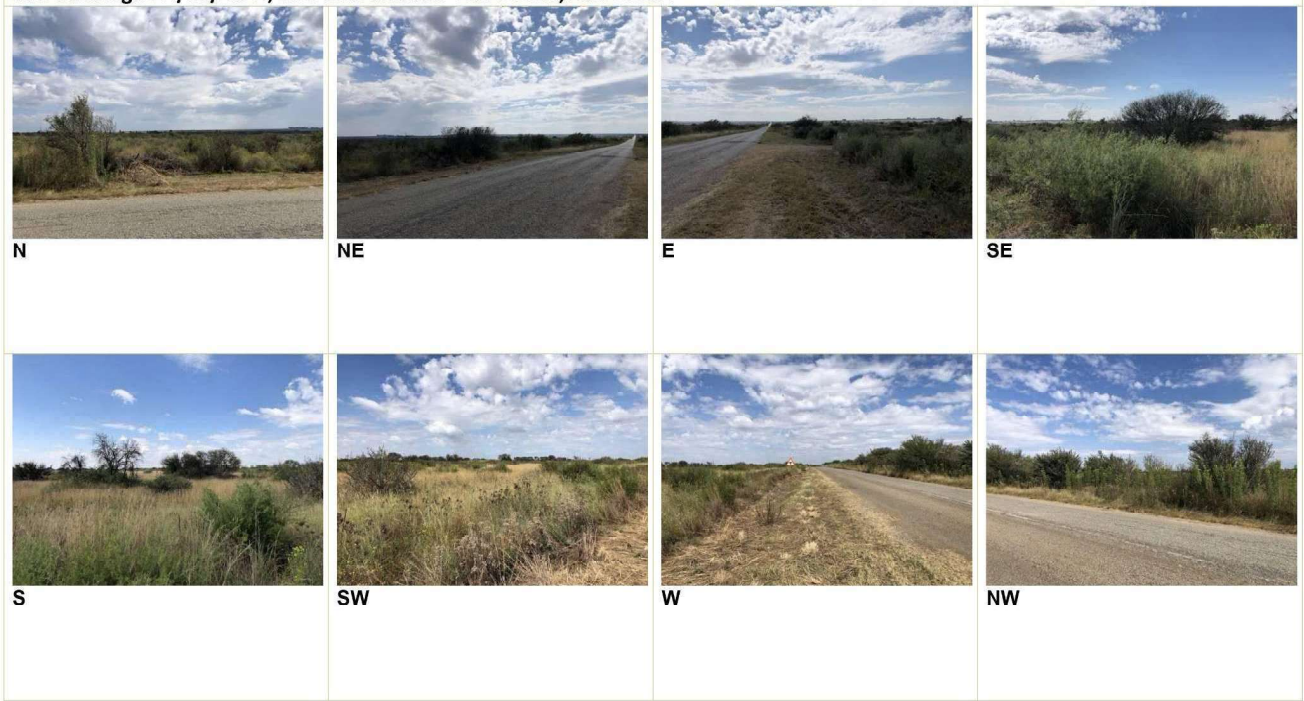
Site Photos

Adamsonsvlei Community: 24/03/2022; GPS Coordinates: -28.095339, 26.732130





Surroundings: 24/03/2022; GPS Coordinates: -28.129839, 26.727582





Surroundings: 24/03/2022; GPS Coordinates: -28.184527, 26.733535





Surroundings: 24/03/2022; GPS Coordinates: -28.250182, 26.706571





Surroundings: 24/03/2022; GPS Coordinates: -28.247787, 26.687260



N



NE



E



SE



S



SW



W



NW



Surroundings: 24/03/2022; GPS Coordinates: -28.216997, 26.703176



N



NE



E



SE



S



SW



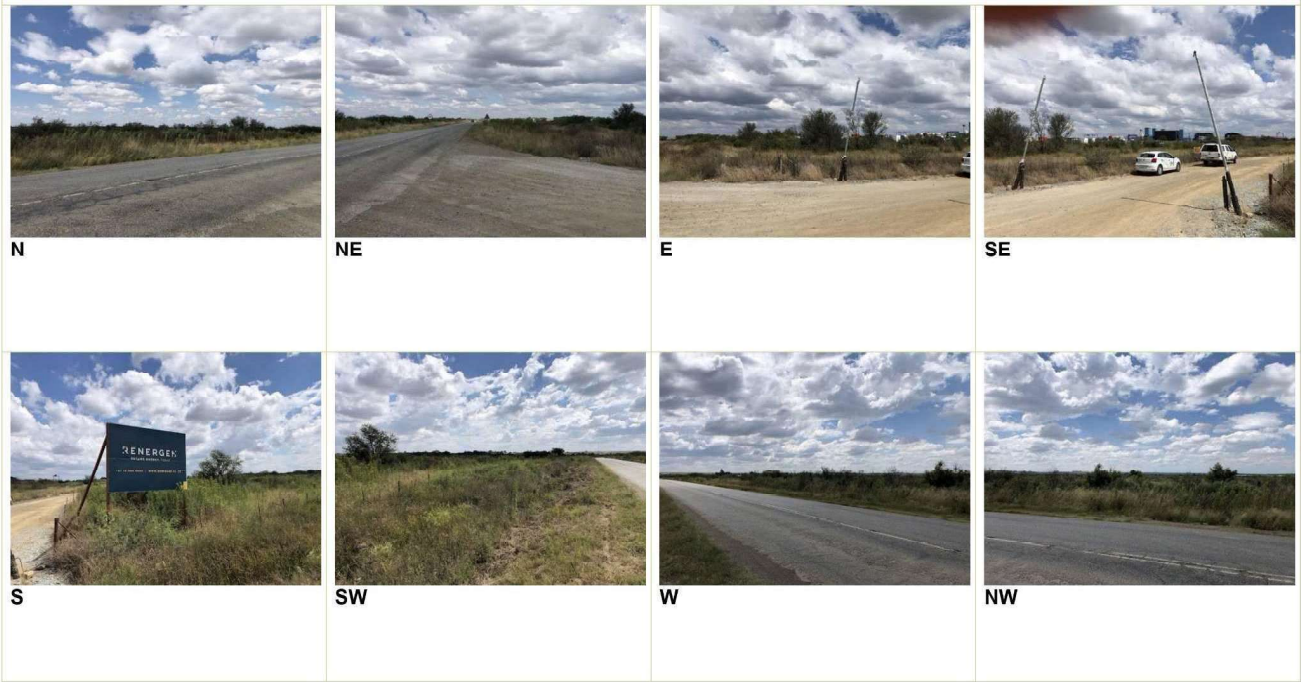
W



NW



LNG/LHe Plant Surroundings: 24/03/2022; GPS Coordinates: -28.126929, 26.723155





Sandrivier/R30 Surroundings: 24/03/2022; GPS Coordinates: -28.109529, 26.715618



N



NE



E



SE



S



SW



W



NW



Surroundings: 24/03/2022; GPS Coordinates: -28.097408, 26.753173



N



NE



E



SE



S



SW



W



NW



Surroundings: 24/03/2022; GPS Coordinates: -28.077524, 26.711889



N



NE



E



SE



S



SW



W



NW



Surroundings: 25/03/2022; GPS Coordinates: -28.203226, 26.824368



N



NE



E



SE



S



SW



W



NW



Surroundings: 25/03/2022; GPS Coordinates: -28.227983, 26.808743



N



NE



E



SE



S



SW



W



NW



Surroundings: 25/03/2022; GPS Coordinates: -28.245147, 26.781427



N



NE



E



SE



S



SW



W



NW



Surroundings: 25/03/2022; GPS Coordinates: -28.246143, 26.766922



N



NE



E



SE



S



SW



W



NW




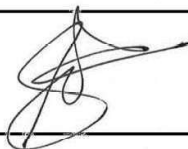

7. Verification findings and motivation:

Assessment for specialist studies and motivation:					
Screening Tool Specialist Study Required:	Level of Sensitivity:	Suggested Sensitivity:	Required level of Assessment	of	Motivation
Agriculture Theme	High	High	None.	<input type="checkbox"/>	A full DFFE protocol compliant specialist Agricultural Impact Assessment will be undertaken. In addition, a Social Impact Assessment and Economic Impact Assessment will be undertaken.
			Compliance Statement	<input type="checkbox"/>	
			Full Assessment	<input checked="" type="checkbox"/>	
			Other	<input type="checkbox"/>	
Animal Species Theme	Medium	Medium	None.	<input type="checkbox"/>	A full DFFE protocol compliant specialist Terrestrial Biodiversity Impact Assessment will be undertaken which will include impact on sensitive or protected faunal species in the area.
			Compliance Statement	<input type="checkbox"/>	
			Full Assessment	<input checked="" type="checkbox"/>	
			Other	<input type="checkbox"/>	
Aquatic Biodiversity Theme	Very High	Very High	None.	<input type="checkbox"/>	A full DFFE protocol compliant specialist Aquatic and Wetland Impact Assessment will be undertaken.
			Compliance Statement	<input type="checkbox"/>	
			Full Assessment	<input checked="" type="checkbox"/>	
			Other	<input type="checkbox"/>	
Archaeological and Cultural Heritage Theme	High	High	None.	<input type="checkbox"/>	A full DFFE protocol compliant specialist Heritage Impact Assessment will be undertaken.
			Compliance Statement	<input type="checkbox"/>	
			Full Assessment	<input checked="" type="checkbox"/>	
			Other	<input type="checkbox"/>	
Civil Aviation Theme	High	Low	None.	<input checked="" type="checkbox"/>	The nature of the development (gas production) as well as the maximum height of the development components during both construction and operational phases will not pose a material risk to commercial air traffic. As such, no specialist aviation studies will be undertaken.
			Compliance Statement	<input type="checkbox"/>	
			Full Assessment	<input type="checkbox"/>	
			Other	<input type="checkbox"/>	
Defence Theme	Low	Low	None.	<input checked="" type="checkbox"/>	The defence theme was rated as low and therefore no defence related studies will be undertaken.
			Compliance Statement	<input type="checkbox"/>	
			Full Assessment	<input type="checkbox"/>	
			Other	<input type="checkbox"/>	
Palaeontology Theme	Very High	Very High	None.	<input type="checkbox"/>	A full DFFE protocol compliant specialist Palaeontological Impact Assessment will be undertaken.
			Compliance Statement	<input type="checkbox"/>	
			Full Assessment	<input checked="" type="checkbox"/>	
			Other	<input type="checkbox"/>	
Plant Species Theme	Low	Medium	None.	<input type="checkbox"/>	A full DFFE protocol compliant specialist



			Compliance Statement	<input type="checkbox"/>	Terrestrial Biodiversity Impact Assessment will be undertaken which will include impact on sensitive or protected floral species in the area.
			Full Assessment	<input checked="" type="checkbox"/>	
			Other	<input type="checkbox"/>	
Terrestrial Biodiversity Theme	Very High	Very High	None.	<input type="checkbox"/>	A full DFFF protocol compliant specialist Terrestrial Biodiversity Impact Assessment will be undertaken.
			Compliance Statement	<input type="checkbox"/>	
			Full Assessment	<input checked="" type="checkbox"/>	
			Other	<input type="checkbox"/>	

APPENDIX 9: IMPACT ASSESSMENT METHODOLOGY

TITLE:		ENVIRONMENTAL IMPACT ASSESSMENT RATING PROCEDURE			
					
REV:	02	AUTHOR		APPROVED	
EFFECTIVE DATE:	NAME:	L. WHITLOW		NAME:	A. SMITH
	DATE:	29 January 2025		DATE:	29 January 2025
	SIGN:			SIGN:	
COPY / STATUS No:		MASTER COPY		DOCUMENT No:	PRO 106

TITLE:	ENVIRONMENTAL IMPACT ASSESSMENT RATING PROCEDURE	DOC No:	PRO 106	REV:	02	Page 2 of 7
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1. Purpose

The purpose of this procedure is to guide the undertaking of an impact and risk assessment process, as required under the regulations promulgated under the National Environmental Management Act (Act 107 of 1998 - NEMA).

2. Scope

This procedure provides the methodology to be applied to environmental impacts and risks identified during the Environmental Impact Assessment Process. The methodology ensures that consistent impact assessment rating is carried out that is legally compliant and aligned with EIMS's objective of providing a quality service.

3. References

GNR. 982 National Environmental Management Act (Act No. 107 of 1998): Environmental Impact Assessment Regulations, 2014 – hereafter referred to as the Regulations.

4. Additional Guidelines and References

Guidelines and Reference Docs (not exhaustive – please verify with the applicable competent authority).	
Compulsory Compliance: GNR. 982 National Environmental Management Act (Act No. 107 of 1998 - NEMA): Environmental Impact Assessment Regulations, 2014.	National
Companion Guideline for Implementation: Environmental Management Assessment Regulations, 2010 - GN 805/2012 (NEMA)	National
DEAT (2002) Impact Significance, Integrated Environmental Management, Information Series 5, Department of Environmental Affairs and Tourism (DEAT), Pretoria	National

5. Definitions and Abbreviations

Refer to Chapter 1 of the Regulations.

6. Procedure

The impact significance rating methodology, as presented herein and utilised for all EIMS Impact Assessment Projects, is guided by the requirements of the NEMA EIA Regulations 2014 (as amended). The approach may be altered or substituted on a case by case basis if the specific aspect being assessed requires such- such instances require prior EIMS Project Manager approval. The broad approach to the significance rating methodology is to determine the significance (S) of an environmental risk or impact by considering the consequence (C) of each impact (comprising Nature, Extent, Duration, Magnitude, and Reversibility) and relating this to the probability/ likelihood (P) of the impact occurring. The S is determined for the pre- and post-mitigation scenario. In addition, other factors, including cumulative impacts and potential for irreplaceable loss of resources, are used to determine a prioritisation factor (PF) which is applied to the S to determine the overall final significance rating (FS). The impact assessment will be applied to all identified alternatives.

a. Determination of Significance

The final significance (FS) of an impact or risk is determined by applying a prioritisation factor (PF) to the post-mitigation environmental significance. The significance is dependent on the consequence (C) of the particular impact and the probability (P) of the impact occurring. Consequence is determined through the consideration of the Nature (N), Extent (E), Duration (D), Magnitude (M), and Reversibility (R) applicable to the specific impact.

For the purpose of this methodology the consequence of the impact is represented by:

$$C = \frac{(E + D + M + R) * N}{4}$$

Each individual aspect in the determination of the consequence is represented by a rating scale as defined in Table 1 below.

TITLE:	ENVIRONMENTAL IMPACT ASSESSMENT RATING PROCEDURE	DOC No:	PRO 106	REV:	02	Page 3 of 7
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Table 1: Criteria for Determining Impact Consequence

Aspect	Score	Definition
Nature	- 1	Likely to result in a negative/ detrimental impact
	+1	Likely to result in a positive/ beneficial impact
Extent	1	Activity (i.e. Highly localised, limited to the area applicable to the specific activity)
	2	Site (i.e. within the development property or site boundary, or the area within a few hundred meters of the site)
	3	Local (i.e. beyond the site boundary within the Local administrative boundary (e.g. Local Municipality) or within consistent local geographical features, or the area within 5 km of the site)
	4	Regional (i.e. Far beyond the site boundary, beyond the Local administrative boundaries within the Regional administrative boundaries (e.g. District Municipality), or extends into different distinct geographical features, or extends between 5 and 50 km from the site).
	5	Provincial / National / International (i.e. extends into numerous distinct geographical features, or extends beyond 50 km from the site).
Duration	1	Immediate (<1 year, quickly reversible)
	2	Short term (1-5 years, less than project lifespan)
	3	Medium term (6-15 years)
	4	Long term (15-65 years, the impact will cease after the operational life span of the project)
	5	Permanent (>65 years, no mitigation measure of natural process will reduce the impact after construction/ operation/ decommissioning).
Magnitude/ Intensity	1	Minor (where the impact affects the environment in such a way that natural, cultural and social functions and processes are not affected)
	2	Low (where the impact affects the environment in such a way that natural, cultural and social functions and processes are slightly affected, or affected environmental components are already degraded)
	3	Moderate (where the affected environment is altered but natural, cultural and social functions and processes continue albeit in a modified way; moderate improvement for +ve impacts; or where change affects area of potential conservation or other value, or use of resources).
	4	High (where natural, cultural or social functions or processes are altered to the extent that it will temporarily cease; high improvement for +ve impacts; or where change affects high conservation value areas or species of conservation concern)
	5	Very high / don't know (where natural, cultural or social functions or processes are altered to the extent that it will permanently cease, substantial improvement for +ve impacts; or disturbance to pristine areas of critical conservation value or critically endangered species)
Reversibility	1	Impact is reversible without any time and cost.

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	2	Impact is reversible without incurring significant time and cost.
	3	Impact is reversible only by incurring significant time and cost.
	4	Impact is reversible only by incurring very high time and cost.
	5	Irreversible Impact.

Once the C has been determined, the significance is determined in accordance with the standard risk assessment relationship by multiplying the C and the P. Probability is rated/ scored as per Table 2.

It is noted that both environmental risks as well as environmental impacts should be identified and assessed. Environmental Risk can be regarded as the potential for something harmful to happen to the environment, and in many instances is not regarded as something that is expected to occur during normal operations or events (e.g. unplanned fuel or oil spills at a construction site). Probability and likelihood are key determinants or variables of environmental risk. Environmental Impact can be regarded as the actual effect or change that happens to the environment because of an activity and is typically an effect that is expected from normal operations or events (e.g. vegetation clearance from site development results in loss of species of concern). Typically the probability of an unmitigated environmental impact is regarded as highly likely or certain (management and mitigation measures would ideally aim to reduce this likelihood where possible). In summary, environmental risk is about what could happen, while environmental impact is about what does happen.

Table 2: Probability/ Likelihood Scoring

Probability	1	Improbable (Rare, the event may occur only in exceptional circumstances, the possibility of the impact materialising is very low as a result of design, historic experience, or implementation of adequate corrective actions; <5% chance).
	2	Low probability (Unlikely, impact could occur but not realistically expected; >5% and <20% chance).
	3	Medium probability (Possible, the impact may occur; >20% and <50% chance).
	4	High probability (Likely, it is most probable that the impact will occur - > 50 and <90% chance).
	5	Definite (Almost certain, the impact is expected to, or will, occur, >90% chance).

The result is a qualitative representation of relative significance associated with the impact. Significance is therefore calculated as follows:

$$S = C \times P$$

Table 3: Determination of Significance

Consequence	5- Very High ¹	5	10	15	20	25
	4- High	4	8	12	16	20
	3- Medium	3	6	9	12	15
	2- Low	2	4	6	8	10
	1- Very low	1	2	3	4	5

¹ In the event that an impact or risk has very high or catastrophic consequences, but the likelihood/ probability is low, then the resultant significance would be Low-medium. This does in certain instances detract from the relative important of this impact or risk and must consequently be flagged for further specific consideration, management, mitigation, or contingency planning.

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		1- Improbable	2- Low	3- Medium/ Possible	4- High/ Probable	5- Highly likely/ Definite
Probability						

The outcome of the significance assessment will result in a range of scores, ranging from 1 through to 25. These significance scores are then grouped into respective classes as described in Table 4.

Table 4: Significance Scores

S Score	Description
≤4.25	Low (i.e. where this impact is unlikely to be a significant environmental risk/ reward).
>4.25, ≤8.5	Low-Medium (i.e. where the impact could have a significant environmental risk/ reward).
>8.5, ≤13.75	High-Medium (i.e. where the impact could have a significant environmental risk/ reward).
>13.75	High (i.e. where the impact will have a significant environmental risk/ reward).

The impact significance will be determined for each impact without relevant management and mitigation measures (pre-mitigation significance), as well as post implementation of relevant management and mitigation measures (post-mitigation significance). This allows for a prediction in the degree to which the impact can be managed/mitigated.

b. Impact Prioritization

Further to the assessment criteria presented in the section above, it is necessary to consider each potentially significant impact in terms of:

1. Cumulative impacts; and
2. The degree to which the impact may cause irreplaceable loss of resources.

To ensure that these factors are considered, an impact prioritisation factor (PF) will be applied to each impacts' post-mitigation significance (post mitigation). This prioritisation factor does not aim to detract from the significance ratings but rather to focus the attention of the decision-making authority on the higher priority/significance issues and impacts. The PF will be applied to the post-mitigation significance based on the assumption that relevant suggested management/mitigation impacts are implemented.

Table 5: Criteria for Determining Prioritisation

Cumulative Impact (CI)	Low (1)	Considering the potential incremental, interactive, sequential, and synergistic cumulative impacts, it is unlikely that the impact will result in spatial and temporal cumulative change.
	Medium (2)	Considering the potential incremental, interactive, sequential, and synergistic cumulative impacts, it is probable that the impact will result in spatial and temporal cumulative change.
	High (3)	Considering the potential incremental, interactive, sequential, and synergistic cumulative impacts, it is highly probable/ definite that the impact will result in spatial and temporal cumulative change.
	Low (1)	Where the impact is unlikely to result in irreplaceable loss of resources.

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Irreplaceable Loss of Resources (LR)	Medium (2)	Where the impact may result in the irreplaceable loss (cannot be replaced or substituted) of resources but the value (services and/or functions) of these resources is limited.
	High (3)	Where the impact may result in the irreplaceable loss of resources of high value (services and/or functions).

The value for the final impact priority is represented as a single consolidated priority, determined as the sum of each individual criteria represented in Table 5. The impact priority is therefore determined as follows:

$$Priority = CI + LR$$

The result is a priority score which ranges from 2 to 6 and a consequent PF ranging from 1 to 1.5 (Refer to Table 6).

Table 6: Determination of Prioritisation Factor

Priority	Prioritisation Factor
2	1
3	1.125
4	1.25
5	1.375
6	1.5

In order to determine the final impact significance (FS), the PF is multiplied by the post-mitigation significance scoring. The ultimate aim of the PF is an attempt to increase the post mitigation environmental risk rating by a factor of 0.5, if all the priority attributes are high (i.e. if an impact comes out with a high medium environmental risk after the conventional impact rating, but there is significant cumulative impact potential and significant potential for irreplaceable loss of resources, then the net result would be to upscale the impact to a higher significance).

Table 7: Final Environmental Significance Rating

Significance Rating	Description
<-25	Very High (Impacts in this class are extremely significant and pose a very high environmental risk. In certain instances these may represent a fatal flaw. They are likely to have a major influence on the decision and may be difficult or impossible to mitigate. Offset's may be necessary.
<-13.75 to -25	High negative (These impacts are significant and must be carefully considered in the decision-making process. They have a high environmental risk or impact and require extensive mitigation measures).
-8.5 to -13.75	Medium-High negative (i.e. Impacts in this class are more substantial and could have a significant environmental risk. They may influence the decision to develop in the area and require more robust mitigation measures).
<-4.25 to <-8.5	Medium- Low negative (i.e. These impacts are slightly more significant than low impacts but still do not pose a major environmental risk. They might require some mitigation measures but are generally manageable).

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Significance Rating	Description
-1 to -4.25	Low negative (i.e. Impacts in this class are minor and unlikely to have a significant environmental risk. They do not influence the decision to develop in the area and are typically easily mitigated.
0	No impact
1 to 4.25	Low positive
>4.25 to <8.5	Medium-Low positive
8.5 to 13.75	Medium-High positive
>13.75	High positive

The significance ratings and additional considerations applied to each impact will be used to provide a quantitative comparative assessment of the alternatives being considered. In addition, professional expertise and opinion of the specialists and the environmental consultants will be applied to provide a qualitative comparison of the alternatives under consideration. This process will identify the best alternative for the proposed project.

7. Responsibilities

It is the responsibility of each EIMS employee, and each external Specialist appointed by EIMS to ensure that this procedure is carried out as described. All the personnel within the organization have the responsibility to report any deviations/changes from the procedures to management. This is to ensure that the necessary changes are documented after approval.

It is the responsibility of the consultant (as applicable) assigned with the task of report compilation to ensure that this methodology/ procedure is strictly applied. It is the responsibility of the assigned Consultant or Quality Reviewer to review and verify that the procedure has been complied with, and such documented at the specified quality check intervals.

8. Records

RECORD	STORAGE LOCATION	STORAGE SYSTEM	RESPONSIBLE PERSON	RETENTION PERIOD
Significance Rating Input Spreadsheet	Project File - /Server/assignments/ Job#/Records	Electronic- Scanned PDF	Project Manager	10 Years

9. Record of Changes, Revisions and Cancellations

RECORD OF CHANGES, REVISIONS AND CANCELLATIONS		
DATE	NATURE / DETAIL OF CHANGE	REV No.
3/12/2024	Update impact criteria descriptions.	01
29/01/2025	Corrections to Significance class numbering	02