

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 nor licences to the relevant competent authorities as required by the relevant legislation. Upon acceptance of an application for a right or permit in terms of the MPRDA, applicants will be required to provide evidence to the Regional Manager that a water use licence has been applied for.
- 4. The Regional Manager will respond to the application and provide the reference and correspondence details of the Competent Authority, and in the event that the application for a right or permit is accepted, together with the date by which the relevant environmental reports must be submitted. Notwithstanding anything that may appear to be stated to the contrary in the acceptance letter, the timeframes are in fact aligned and the prescribed timeframes for the submission of documents as regulated by the NEMA regulations must be strictly adhered to.
- 5. The application must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when each space is filled with typing.
- 6. The failure to submit complete information as required in this application form may result in the refusal of the application for an environmental authorisation and consequently of the right or permit applied for.
- 7. This application must be submitted through the SAMRAD online application system of the Department of Mineral Resources under "Other documents to upload".
- 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.

REVISED APPLICATION FORM (NOVEMBER 2022)

This application form has been updated following completion of the EIA Report. Certain listed activities that were initially applied for have been determined to be not applicable as identified Table 7 of the EIA report and therefore removed from this revised form for decision making.

*** Note that all Appendices of the initial application form as shared in the Scoping report are still applicable and can be made available on request ***

1. CONSULTATION BASIC ASSESSMENT AND/ OR SCOPING REPORT

PLEASE STATE TYPE OF AUTHORISATIONS BEING APPLIED FOR.

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

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,	Director		
CEO, etc).:			
Contact person:	Khalid Patel		
Physical address:	1 Bompas Road, Johannesburg, 2196, ZA		
Postal address:	1 Bompas Road, Johannesburg, ZA2196		
Postal code:	2196 Cell: +27 83 656 2355		
Telephone:	Tel: +27 10 045 6000 Fax:		
E-mail:	khalid@renergen.co.za		

3. ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP) INFORMATION

EAP: Professional affiliation/registration:	Brian Whitfield South African Council Natural and Scientific Professions (SACNASP) - 400202/09 Environmental Assessment Practitioners Association of South Africa (EAPASA) – 2022/4496		
Contact person (if different from EAP):	Same as Above		
Company: Physical address:	Environmental Impact Management Services (Pty) Ltd 8 Dalmeny Road, Pine Park, Randburg, 2194		
Postal address:	PO Box 2083, Pinegowrie, 2123, ZA		
Postal code:	2123	Cell:	+27 82 688 9850
Telephone:	+27 11 789 7170	Fax:	+27 86 571 9047
E-mail:	brian@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 the 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**.

PROJECT DESCRIPTION

Farm Name:	The application and study area covers various farm portions as depicted in the maps included in Appendix 6 .				
Application area (Ha)	~27 500 hectares.				
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 6 .				
Locality map	Attach a locality map at a scale not smaller than 1:250000 and attach as Appendix 2.				
Description of the overall activity.	Tetra4 wishes to expand their natural gas (helium and methane) operations, located within the				
(Indicate Mining Right, Mining	approved production right area (Production Right Ref: 12/4/1/07/2/2). The planned Cluster 2 expansion to the existing approved Cluster 1 production activities will involve up to 300 new				
Permit, Prospecting right, Bulk	production wells, gas transmission pipelines and associated infrastructure, compressor stations and				
Sampling, Production Right,	a Liquid Natural Gas (LNG) and Liquid Helium (LHe) plant ("LNG/LHe Plant") and associated infrastructure as part of the Cluster 2 expansion of the Project in order to meet the future production				
Exploration Right, Reconnaissance	requirements.				
permit, Technical co-operation	As the specific location of new production wells and subsequent pipelines and associated				
permit, Additional listed activity)	As the specific location of new production wells and subsequent pipelines and associate infrastructure can only be confirmed once exploration activities are undertaken, this application focussing on infrastructure transects (buffer areas) within which the activities will be undertake Through this process any potential no-go areas or highly sensitive areas within the infrastructure transects will be delineated, and appropriate mitigation measures identified where relevant.				
	The Cluster 2 development will comprise 3 phases/groups of wells during which exploration and drilling will be undertaken. Each phase will target ~15 Million Standard Cubic Feet per Day of gas (MMSCFD) with a total target volume of ~45 MMSCFD. The construction of the gas gathering network (including pipelines, booster and compressor stations, etc) is planned to commence in ~May 2023 and be completed by ~December 2023. Construction of the LNG/LHe plant and associated infrastructure is planned to commence in ~March 2023 and be completed by ~February 2025. The operational (gas production) timeframe for the project is approximately 20 years (~2025 to ~ 2045).				
	 In summary, there are 3 main components to the Cluster 2 development namely: 1. Exploration and drilling; 2. Gas gathering infrastructure; and 3. LNG/LHe Plant. 				

4. ACTIVITIES TO BE AUTHORISED

(Please provide copies of Environmental Authorisations obtained for the same property as Appendix 3).

(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 included. 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**)

		APPLICABLE	WASTE
Aerial extent of the			MANAGEMENT
-	ACTIVITY	LISTING NOTICE	
	(Mark with an X where applicable or affected).	(GNR 544, GNR 545 or GNR 546)	AUTHORISATION (Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an X)
~400 Exploration wells:	X	GNR 983: LN1	N/A
~100 ha ~300 Production Wells: ~462 m² / ~0.0462 ha		Activity 12 Activity 19 Activity 27 Activity 28 Activity 67 GNR 984: LN2 Activity 15 GNR 985: LN3 Activity 12 Activity 14 Activity 23	
	X	GNR 983: LN1 Activity 12 Activity 19 Activity 27 Activity 28 Activity 67 GNR 984: LN2 Activity 15 GNR 985: LN3 Activity 12 Activity 14	X
	~100 ha ~300 Production Wells: ~462 m² / ~0.0462 ha ~4000 m³ for exploration drill sites.	Ha or m² (Mark with an X where applicable or affected). ~400 Exploration wells: ~100 ha X ~300 Production Wells: ~462 m² / ~0.0462 ha X ~400 m² for exploration drill sites. X	Ha or m ² (Mark with an X where applicable or affected). (ONR 544, GNR 545 or GNR 546) -400 Exploration wells: -100 ha X GNR 983: LN1 Activity 12 Activity 28 Activity 28 Activity 67 GNR 983: LN2 Activity 15 GNR 983: LN3 Activity 12 Activity 12 Activity 12 Activity 12 Activity 12 Activity 23 -400 m ³ for exploration drill sites. X GNR 983: LN1 Activity 23 Activity 24 Activity 28 Activity 27 Activity 28 Activity 27 Activity 28 Activity 18 Activity 1

NAME OF ACTIVITY	Aerial extent of the	LISTED	APPLICABLE	5 WASTE
(E.g. For prospecting - drill site, site camp, ablution facility,	Activity	ACTIVITY		MANAGEMENT
accommodation, equipment storage, sample storage, site office, access route etcetc.	Ha or m ²			AUTHORISATION
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, etcetcetc.)	Ha or m ²	(Mark with an X where applicable or affected).	(GNR 544, GNR 545 or GNR 546)	(Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an X)
To achieve a total of 300 production wells, up to 400 exploration wells may be drilled. This will result in a total volume of drilling waste of ~4000 m ³ .			GN 921 Category A1 Category A6 Category A7 Category A12 Category A13 Category A14 Category B1 Category B10 Category B11	
Gas Pipelines Production wells will be connected with pipelines (predominantly underground) to transfer the gas to the booster stations, and then to compressor stations, and ultimately to the LNG/LHe Plant. Pipelines will be a combination of high-pressure steel as well as low-pressure high-density polyethylene (HDPE) and installed at a minimum depth of 1.5 m below surface level.	~480 km of pipelines with an operational servitude width of 10m. The construction right of way (impacted area) for the pipelines will be ~20 m wide and therefore the ~480km of pipelines will impact on ~960 ha. The pipelines are classified as a "linear activity" and therefore the clearance of vegetation under LN1 and LN2 is not triggered while clearance of indigenous vegetation under LN3 is applicable.	X	GNR 983: LN1 Activity 12 Activity 19 Activity 28 Activity 60 Activity 67 GNR 984: LN2 Activity 7 GNR 985: LN3 Activity 12 Activity 14 Activity 23	N/A
Booster Stations Localised inline gas booster stations will be installed for each cluster of 7-10 wells which will feed pressurised gas via pipelines from the production wells to the compressor stations. The booster stations will occupy an area of ~10 m x 14 m (140 m ²) and a total of 28 booster stations may be constructed.	~3920 m ² / 0.392 ha	Х	GNR 983: LN1 Activity 12 Activity 19 Activity 27 Activity 28 Activity 67 GNR 985: LN3 Activity 12	N/A
Compressor Stations Three (3) new compressor stations will be constructed as part of the Cluster 2 development. The footprint for a compressor station including the gas drier station will be approximately 60 m x 60 m (3600 m ²).	~10800 m² / 1.08 ha	X	GNR 983: LN1 Activity 12 Activity 19 Activity 27 Activity 28 Activity 67 GNR 985: LN3 Activity 12	N/A
Pigging Stations Inline pigging stations are installed near river crossings to allow for regular cleaning and inspection of the pipelines. The pigging stations allow for insertion of probes or cleaning pigs (plugs) in order to perform regular maintenance. There are approximately 4 major river crossings but with multiple pipe branches. In total there should be approximately 14 pig launcher/receiver pairs. Pigging stations occupy	~350 m ²	X	GNR 983: LN1 Activity 12 Activity 19 Activity 27 Activity 28 Activity 67 GNR 985: LN3 Activity 12	N/A

				6
NAME OF ACTIVITY	Aerial extent of the	LISTED	APPLICABLE	WASTE
(E.g. For prospecting - drill site, site camp, ablution facility,	Activity	ACTIVITY	LISTING NOTICE	MANAGEMENT
accommodation, equipment storage, sample storage, site office, access route etcetcetc	Ha or m ²	(Mark with an ${f X}$		AUTHORISATION
E.g. for mining,- excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and		where applicable or	(GNR 544, GNR 545 or GNR 546)	(Indicate whether an
boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etcetcetc.)		affected).		authorisation is required in terms of the Waste Management Act).
				(Mark with an X)
an area of approximately 5 m x 5 m (~25 m ²)				
each.	000 0	X		N1/A
Low Point Drains Low Point Drains are installed along the pipeline	~360 m ²	X	GNR 983: LN1 Activity 12	N/A
to allow periodic maintenance of the pipeline			Activity 12 Activity 19	
whereby any condensate is able to be removed			Activity 27	
from the pipeline where the pipeline has a low			Activity 28	
point (gravity collection of condensates).			Activity 67	
Approximately 240 low point drains will be			GNR 985: LN3	
installed and each occupies an area of ~1.5 m ² .	050	Y	Activity 12	N1/A
Access Roads Temporary access roads are required in areas	Assuming ~250 m per well and 400 exploration	X	GNR 983: LN1 Activity 12	N/A
where the exploration drill site is not readily	wells, a total of 100 km of		Activity 12 Activity 19	
accessible from existing access roads.	access roads may be		Activity 48	
Permanent access roads will be constructed in	required.		Activity 56	
areas where the production wells, pigging			Activity 67	
stations, low point drains etc are not readily			GNR 985: LN3	
accessible from existing access roads. The			Activity 12	
temporary and permanent access roads will be			Activity 14	
approximately 2.5 m wide on average and where possible will be limited to a 2-spoor type access			Activity 18 Activity 23	
road. Based on the Cluster 1 access road			Activity 25	
requirements, the average length of access				
roads per well will be in the order of ~250 m.				
Only where subsurface conditions require				
material to be imported to stabilise the area will				
this be undertaken. As the access roads are not spatially defined at this time due to exploration				
wells not being spatially defined, it is proposed				
that a sensitivity assessment approach will be				
utilised as a basis for identifying any specific no-				
go areas for access roads.				
LNG/LHe Plant	~9.6 Ha	X	GNR 983: LN1	X
The LNG/LHe plant comprises of the following			Activity 27	
process units:			Activity 28 Activity 51	GN921 Category B and C
Gas Treatment and Boosting System;Helium Separation Unit;			Activity 59	
 Gas Liquefaction System; 			GNR 984: LN2	Norms and Standards
 LHe Storage (~2 x 100 m³); 			Activity 4	for Storage of Waste,
 LNG Storage (~11 x 300 m³); 			Activity 5	published under
• LHe and LNG road tanker loading bays;			Activity 15	Government Notice
Access and internal roads;			GNR 985: LN3	R926 in Government
• Water system (service water and fire water			Activity 10 Activity 12	Gazette 37088 of 29 November 2013; or
tank as well as an evaporation pond);			Activity 22	
Offices and ablution facilities; and				Norms and Standards
Sewage treatment plant and reverse			GN 921	fix the Sorting,
osmosis plant.			Category B1	Shredding, Crushing,
			Category B10	Screening or Bailing
			Category B11	of General Waste,
			Category C1 Category C2	published under Government Notice
			Category C2 Category C6	No.1094 in
				Government Gazette
				41175 of 11 October
				2017;

NAME OF ACTIVITY	Aerial extent of the	LISTED	APPLICABLE	WASTE
(E.g. For prospecting - drill site, site camp, ablution facility,	Activity	ACTIVITY	LISTING NOTICE	MANAGEMENT
accommodation, equipment storage, sample storage, site office, access route etcetcetc 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, etcetc)	Ha or m ²	(Mark with an X where applicable or affected).	(GNR 544, GNR 545 or GNR 546)	AUTHORISATION (Indicate whether an authorisation is required in terms of the Waste Management Act).
Temporary laydown and camps Various contractor laydown camps will be required during construction phase and will include offices, ablution facilities, parking, fencing, waste storage areas, material storage, etc. These camps will be located adjacent to the LNG/LHe Plant area and possibly one at compressor station 1.	~15.8 Ha	X	GNR 983: LN1 Activity 27 Activity 67 GNR 985: LN3 Activity 12 GN 921 Category B1 Category B10 Category B10 Category C1 Category C1 Category C2 Category C6	(Mark with an X) X GN921 Category B and C Norms and Standards for Storage of Waste, published under Government Notice R926 in Government Gazette 37088 of 29 November 2013; or Norms and Standards fix the Sorting, Shredding, Crushing, Screening or Bailing of General Waste, published under Government Notice No.1094 in Government Gazette 41175 of 11 October
Evaporation Pond The Evaporation Pond will be constructed within the LNG/LHe Plant boundary and have an installed capacity of 1005 m ³ (working volume of 585 m ³) and cover an area of 103 m X 67 m (6901 m ²). Based on the design, the total depth will be 1.44 m. This facility will contain the dirty water from the operations and this water will be treated in the RO plant for reuse. Brine from water treatment will be disposed of offsite by a third-party licenced waste operator. The evaporation pond is not within or near to a watercourse and therefore LN1 Activity 12 and 48 or LN3 Activity 23 are not triggered. Furthermore the storage volume is below the threshold in LN1 Activity 13 and 50. No NEMWA activities are triggered by the evaporation pond	<0.1 ha	X	GNR 983: LN1 Activity 16 GNR 985: LN3 Activity 12	2017 N/A
evaporation pond. Sewage Treatment Plant & Reverse Osmosis (RO) Plant The Reverse Osmosis Plant (RO Plant) will process more than 100 m ³ /d of dirty water from the evaporation pond in order to produce ~100 m ³ /day of treated water. The Sewage Treatment Plant design capacity is to process 30 m ³ /day. The Reverse Osmosis Plant (RO Plant) will remove salts from the wastewater in the evaporation pond and therefore fulfils the function of desalination of water.	<0.1 ha (but included in LNG/LHe Plant complex)	X	GNR 983: LN1 Activity 16 GNR 985: LN3 Activity 12	N/A

				8
NAME OF ACTIVITY	Aerial extent of the	LISTED	APPLICABLE	WASTE
(E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office,	Activity	ACTIVITY	LISTING NOTICE	MANAGEMENT
access route etcetc	Ha or m ²	(Mark with an ${f X}$		AUTHORISATION
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, etcetcetc.)		where applicable or affected).	(GNR 544, GNR 545 or GNR 546)	(Indicate whether an authorisation is required in terms of the Waste Management Act). (Mark with an X)
The RO Plant and Sewage Treatment Plant will be constructed within the LNG/LHe Plant complex.				
Waste storage	>100 m ³ of general	Norms and	N/A	Norms and Standards
The storage of general and hazardous waste at the LNG/LHe Plant during construction and operation requires registration under the NEMWA Norms and Standards.	waste storage >80 m ³ of hazardous waste storage	Standards Registration for Activities listed in C1, C2 and C6		Registration
Gas extraction and production operation	~27 500 ha	X	GNR 983: LN1	N/A
This Cluster 2 application will form an expansion of the existing Cluster 1 gas production operations which are both located within the approved Production Right area (Ref: 12/4/1/07/2/2). The approved Production Right area covers ~187 000 ha and the Cluster 2 application area is ~27 500 ha. Cluster 1 and Cluster 2 application areas overlap.	27 500 114	A	Activity 59 GNR 984: LN2 Activity 5	
The Cluster 2 project entails a total of ~ 300 production wells to produce a total of 45 MMSCFD.				
Existing approved EMPr Amendment (Section 102) As Cluster 2 application is an extension to the approved Cluster 1 production operations, the current approved Cluster 1 EMPr will be amended as part of this Cluster 2 application due to the similar nature of the activities.	N/A (Process activity)	X	GNR 983: LN1 Activity 21D	N/A
Existing approved AEL amendment for expansion of the LNG Processing Plant The approved AEL (LDM/AEL/YMK/014) for Cluster 1 plant will be amended to include the Cluster 2 Plant for Storage and Handling of Petroleum Products (Subcategory 2.4) - NEMAQA.	N/A (Process activity)	X	GNR 983: LN1 Activity 34	N/A

5. PUBLIC PARTICIPATION

(Provide details of the public participation process proposed for the application.

Details of the Public Participation process to be followed.

5.1.1. IDENTIFICATION OF INTERESTED AND AFFECTED PARTIES TO BE CONSULTED

YES NO Will the landowner be specifically consulted? X X Will will activate on the property other than the Landowner be consulted? X X Will relawful occupier on the property other than the Landowner be consulted? X X Will relay authority or host community that may be affected be consulted? X X Will relay authority or host community that may be affected be consulted? X X Will the landowners or lawful occupiers of neighbouring properties been identified? X X Will the Authority responsible for power lines within 100 metres of the area applied for be consulted? X X Will authorities responsible for public roads or railway lines within 100 metres of the area applied for be consulted? X X Will all authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? X X Will all of the parties identified above be provincial roads authorities, etc. will be consulted? X X Will all of the parties identified above be erquested in writing to provide information as to how their interests X X Will all the parties identified above be erquested in writing to provide information as to how their interests X X	IDENTIFICATION CRITERIA		Mark with an X where applicable	
Will the lawful occupier on the property other than the Landowner be consulted? X Will a tribal authority or host community that may be affected be consulted? X Will recipients of land claims in respect of the area be consulted? X Will the landowners or lawful occupiers of neighbouring properties been identified? X Will the local municipality be consulted? X Will the Authority responsible for power lines within 100 metres of the area be consulted? X Will authorities responsible for public roads or railway lines within 100 metres of the area applied for be consulted? X Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? X Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? X Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? X Will authorities responsible for any other infrastructure within 100 metres of the proposed mining /prospecting X Will all the parties identified above be provided with a description of the proposed mining /prospecting X Will all the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above be requested in writing to provide information as to how their interests			YES	NO
Will a tribal authority or host community that may be affected be consulted? X Will recipients of land claims in respect of the area be consulted? X Will the landowners or lawful occupiers of neighbouring properties been identified? X Will the local municipality be consulted? X Will the local municipality be consulted? X Will the Authority responsible for public roads or railway lines within 100 metres of the area applied for be X Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? X Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? X Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? X Will all the Provincial Department responsible for the environment be consulted? X Will all the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above be requested in writing to provide information as to how their interests X (whether it be socio-economic, cultural, heritage or environmental Will be affected by the proposed mining project? X Other, Specify Non-Governmental Organisations (NGOs) and Non-Profit Organisations (NPOs) including: • African Conservat	Will the landowner be specifically consulted?		Х	
Will recipients of land claims in respect of the area be consulted? X Will the landowners or lawful occupiers of neighbouring properties been identified? X Will the local municipality be consulted? X Will the valthority responsible for power lines within 100 metres of the area be consulted? X Will the Authority responsible for power lines within 100 metres of the area applied for be X Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? X Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? X Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? X Will all of the parties identified above be provided with a description of the proposed mining /prospecting operation as referred above? X Will all the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above be requested in writing to provide information as to how their interests X Will alle office X X<	Will the lawful occupier on the property other than the Lan	downer be consulted?	Х	
Will the landowners or lawful occupiers of neighbouring properties been identified? X Will the local municipality be consulted? X Will the Authority responsible for power lines within 100 metres of the area be consulted? X Will Authorities responsible for public roads or railway lines within 100 metres of the area applied for be X Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? X Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? X Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? X Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? X Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? X Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? X Will the parties identified above be provided with a description of the proposed mining /prospecting X Will all of the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above be requested in writing to provide information as to how their interests X Will all of the s				
Will the local municipality be consulted? X Will the Authority responsible for power lines within 100 metres of the area be consulted? X Will Authorities responsible for public roads or railway lines within 100 metres of the area applied for be X Will Authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? X Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? X Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? X Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? X Will all of the parties identified above be provincial roads authorities, etc. will be consulted? X Will all the parties identified above be provided with a description of the proposed mining /prospecting operation as referred above? X Will all the parties identified above be requested in writing to provide information as to how their interests X (whether it be socio-economic, cultural, heritage or environmental Organisations (NGOs) and Non-Profit Organisations (NPOs) including: • Other, Specify Non-Governmental Organisations (NGOs) and Non-Profit Organisations (NPOs) including: • African Conservation Trust • African Conservation Trust	Will recipients of land claims in respect of the area be con	sulted?		
Will the Authority responsible for power lines within 100 metres of the area be consulted? X Will Authorities responsible for public roads or railway lines within 100 metres of the area applied for be X Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? X Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? X Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? X Will all the Provincial Department responsible for the environment be consulted? X Will all the parties identified above be provided with a description of the proposed mining /prospecting operation as referred above? X Will all the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above Will all the fact and the parties ident	Will the landowners or lawful occupiers of neighbouring pr	operties been identified?		
Will Authorities responsible for public roads or railway lines within 100 metres of the area applied for be X Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? X Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? X Transnet, SANRAL, Eskom, Provincial roads authorities, etc. will be consulted. X Will all of the parties identified above be provided with a description of the proposed mining /prospecting X Will all the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above be requested in writing to provide information as to how their interests X (whether it be socio-economic, cultural, heritage or environmental) will be affected by the proposed mining project? X Other, Specify Non-Governmental Organisations (NGOs) and Non-Profit Organisations (NPOs) including: • African Conservation Trust • African Conservation Trust • African for Sustainals Environment • Earthlife Africa • Conservation for Sustainable Environment • FrackFree SA • Groundwork South Africa • Wildlife and Environment Society of So				
consulted? No Will authorities responsible for any other infrastructure within 100 metres of the area applied for be consulted? X (Specify) Transnet, SANRAL, Eskom, Provincial roads authorities, etc. will be consulted. X Will all of the parties identified above be provided with a description of the proposed mining /prospecting operation as referred above? X Will all the parties identified above be requested in writing to provide information as to how their interests X (whether it be socio-economic, cultural, heritage or environmental) will be affected by the proposed mining project? X Other, Specify Non-Governmental Organisations (NGOs) and Non-Profit Organisations (NPOs) including: • African Conservation Trust • African Conservation Trust • African Conservation Trust • African Conservation South Africa • Conservation South Africa • Endangered Wildlife Trust • Federation for Sustainable Environment • FrackFree SA • Groundwork South Africa • Wildlife and Environment Society of South Africa	Will the Authority responsible for power lines within 100 m	etres of the area be consulted?		
(Specify) Transnet, SANRAL, Eskom, Provincial roads authorities, etc. will be consulted. Will the Provincial Department responsible for the environment be consulted? X Will all of the parties identified above be provided with a description of the proposed mining /prospecting X Will all of the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above be requested in writing to provide information as to how their interests X (whether it be socio-economic, cultural, heritage or environmental) will be affected by the proposed mining project? Non-Governmental Organisations (NGOs) and Non-Profit Organisations (NPOs) including: Other, Specify Non-Governmental Organisations (NGOs) and Non-Profit Organisations (NPOs) including: • African Conservation Trust • Afriforum • Birdlife South Africa • Conservation South Africa • Earthlife Africa • Earthlife Trust • Federation for Sustainable Environment • FrackFree SA • Groundwork South Africa		s within 100 metres of the area applied for be	Х	
Will the Provincial Department responsible for the environment be consulted? X Will all of the parties identified above be provided with a description of the proposed mining /prospecting operation as referred above? X Will all the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above be requested in writing to provide information as to how their interests X Other, Specify Non-Governmental Organisations (NGOs) and Non-Profit Organisations (NPOs) including: • African Conservation Trust African Conservation South Africa	(Specify)		X	
Will all of the parties identified above be provided with a description of the proposed mining /prospecting X operation as referred above? X Will all the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above be requested in writing to provide information as to how their interests X Winduct Mon-Governmental Organisations (NGOs) and Non-Profit Organisations (NPOs) including: • African Conservation Trust • Afrifican Conservation Trust • Afrifies South Africa • Centre for Environmental Rights • Conservation for Sustainable Environment • FrackFree SA • Groundwork South Africa • Wildlife and Environment Society of South Africa			X	
operation as referred above? Will all the parties identified above be requested in writing to provide information as to how their interests X Will all the parties identified above be requested in writing to provide information as to how their interests X (whether it be socio-economic, cultural, heritage or environmental) will be affected by the proposed mining X Other, Specify Non-Governmental Organisations (NGOs) and Non-Profit Organisations (NPOs) including: • 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 Wildlife and Environment Society of South Africa				
Will all the parties identified above be requested in writing to provide information as to how their interests X (whether it be socio-economic, cultural, heritage or environmental) will be affected by the proposed mining project? Non-Governmental Organisations (NGOs) and Non-Profit Organisations (NPOs) including: Other, Specify Non-Governmental Organisations (NGOs) and Non-Profit Organisations (NPOs) including: • African Conservation Trust • Afriforum • Birdlife South Africa • Conservation South Africa • Earthlife Africa • Endangered Wildlife Trust • Federation for Sustainable Environment • FrackFree SA • Groundwork South Africa • Wildlife and Environment Society of South Africa				
(whether it be socio-economic, cultural, heritage or environmental) will be affected by the proposed mining project? Other, Specify Non-Governmental Organisations (NGOs) and Non-Profit Organisations (NPOs) including: 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		to provide information as to how their interests	Х	
Other, Specify Non-Governmental Organisations (NGOs) and Non-Profit Organisations (NPOs) including: • African Conservation Trust • African Conservation Trust • Africonum • 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	(whether it be socio-economic, cultural, heritage or environ			
including: 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		Non Covernmental Organizations (NCOs) and Non	Drofit Organia	ations (NDOs)
 <u>African Conservation Trust</u> <u>Afriforum</u> <u>Birdlife South Africa</u> <u>Centre for Environmental Rights</u> <u>Conservation South Africa</u> <u>Earthlife Africa</u> <u>Endangered Wildlife Trust</u> <u>Federation for Sustainable Environment</u> <u>FrackFree SA</u> <u>Groundwork South Africa</u> <u>Wildlife and Environment Society of South Africa</u> 	Other, Specify		FTUIL OIYanis	alions (NFOS)
 <u>Afriforum</u> <u>Birdlife South Africa</u> <u>Centre for Environmental Rights</u> <u>Conservation South Africa</u> <u>Earthlife Africa</u> <u>Endangered Wildlife Trust</u> <u>Federation for Sustainable Environment</u> <u>FrackFree SA</u> <u>Groundwork South Africa</u> <u>Wildlife and Environment Society of South Africa</u> 				
 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 				
 <u>Centre for Environmental Rights</u> <u>Conservation South Africa</u> <u>Earthlife Africa</u> <u>Endangered Wildlife Trust</u> <u>Federation for Sustainable Environment</u> <u>FrackFree SA</u> <u>Groundwork South Africa</u> <u>Wildlife and Environment Society of South Africa</u> 				
Conservation South Africa Earthlife Africa Endangered Wildlife Trust Federation for Sustainable Environment FrackFree SA Groundwork South Africa Wildlife and Environment Society of South Africa				
Earthlife Africa Endangered Wildlife Trust Federation for Sustainable Environment FrackFree SA Groundwork South Africa Wildlife and Environment Society of South Africa				
Endangered Wildlife Trust Enderation for Sustainable Environment FrackFree SA Groundwork South Africa Wildlife and Environment Society of South Africa				
Federation for Sustainable Environment FrackFree SA Groundwork South Africa Wildlife and Environment Society of South Africa				
 FrackFree SA Groundwork South Africa Wildlife and Environment Society of South Africa 				
Groundwork South Africa Wildlife and Environment Society of South Africa				
<u>Wildlife and Environment Society of South Africa</u>				
			Africa	
		World Wildlife Fund	Alloa	

5.1.2. DETAILS OF THE ENGAGEMENT PROCESS TO BE FOLLOWED

5.1.2. DETAILS OF THE ENGAGEMENT		
Steps to be taken to notify interested and	PROVIDE DESCRIPTION HERE	
affected parties (Describe the process to be undertaken to consult interested and affected parties including public meetings and one on one consultations. NB the affected parties must be specifically consulted regardless of whether or not they attended public meetings. Photographs of notice boards, and copies of advertisements and notices notifying potentially interested and affected parties of the proposed application must be attached as Appendix 9)	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. 78 Site notices in English, Afrikaans and Sesotho were placed in various locations within and surrounding the application area; and a newspaper advertisement was placed in English, Afrikaans and Sesotho in the Vista Newspaper that has wide distribution in the area. 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 Scoping Report as well as the Environmental Impact Assessment Report associated appendices. A public open day will be held during the Scoping review period and a further public open day as well as a public meeting will be held during the EIAR review period. Focus Group Meetings will also be held during both Scoping and EIAR 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.	
	Copies of the initial call to register notifications are included in Appendix 9 .	
Information to be provided to Interested and Affected Parties.	Compulsory	
Allecteu Faitles.	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, fly rock 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 on the use of their land).	
	 Other, specify: The need and motivation of the proposed project; The gas production infrastructure; 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. 	
Information to be required from Interested and Affected Parties.	 Compulsory 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. 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). 	
	 Other, Specify A questionnaire was distributed to pre-identified I&APs (including landowners) with the aim to solicit specific information such as: Details of any additional landowner and contact information on lawful occupiers; Details of any communities existing within the area; Details of any Tribal Authorities within the area; Details of any land claims; Details of any other I&APs 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 assessment; and Any specific comments, concerns or objections to the proposed production
operation.

6. DESCRIPTION OF THE ASSESSMENT PROCESS TO BE UNDERTAKEN

ITEM	DESCRIPTION
Environmental attributes. Describe how the Environmental attributes associated with the development footprint will be determined.	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 project 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 environmental attributes which are likely to be affected by these activities identified.
Identification of impacts and risks. (Describe the process that will be used to identify impacts and risks.	The identification of potential impacts and risks for assessment will be undertaken through specialist investigations and I&AP consultation as well as 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 EIA). The potential impacts and risks on broad environmental aspects, in respect of each of the main project actions, activities and processes will be assessed and presented in the Scoping Report and where applicable the Environmental Impact Assessment Report (EIAR).
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.	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 into the identification of the feasible development alternative. The first level alternatives include land use, location, production method, and site access alternatives. These alternatives will determine the optimal process for the proposed production 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.
Process to assess and rank impacts. Describe the process to be undertaken to identify, assess and rank the impacts and risks each individual activity.	Please refer to Appendix 7 for a detailed description of the EIMS Impact Assessment Methodology.
Contribution of specialist reports Describe how specialist reports, if required, will be taken into consideration and inform the impact identification, assessment and remediation process.	 Specialist studies will be utilised to guide and inform the assessment of the potential impacts. The specialist studies identified at the start of this application and to be included in this assessment include: Agricultural Potential & Hydropedology Impact Assessment Air Quality & Health Risk Assessment Green House Gas (GHG) & Climate Change Study Economic Study and Impact Assessment Financial Provision update Geohydrology Impact Assessment Heritage Impact Assessment Noise Impact Assessment Social Impact Assessment Terrestrial Biodiversity Impact Assessment Visual Impact Assessment Wetland and Aquatic Impact Assessment

	1
	Should additional specialist studies be identified during the course of the application process, these will be included in addition to the above (where relevant).
	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 specialist reports will be incorporated into the SR and EIAR and will be made available to registered I&APs for review and comment.
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	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.
aligned with standards.	As per the Need and Desirability Guideline (Integrated Environmental Management Guideline Series 9) the impact mitigation hierarchical approach will be followed by:
	1. Alternatives will be investigated to avoid negative impact altogether if possible;
	 Alternatives will be investigated to reduce (mitigate and manage) unavoidable negative impact;
	3. Alternatives will be investigated to remediate impacts (rehabilitate and restore);
	 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.
	The EMP developed for the project shall include mechanisms whereby social and environmental risk and impacts shall be avoided and mitigated. The Generic Gas Pipeline EMPR shall be used (as required) while the Cluster 1 approved EMPR will be assessed to determine if any additional and specific mitigation measures are required.
	The objectives of this environmental management framework shall be:
	 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.
	The management and mitigation measures shall be developed in accordance with applicable standards and guidelines, which shall include, but is not limited to:
	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;
	 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).

7. OTHER AUTHORISATIONS REQUIRED

	Mark v	vith an X w	here appli	cable
LEGISLATION	AUTHORISATION REQUIRED		APPLICATION SUBMITTED	
	YES	NO	YES	NO
SEMAs				
National Environmental Management: Air Quality Act	Х			Х
(Note: Amendment to existing AEL towards end of EIA phase)				
National Environmental Management: Biodiversity Act	Х			Х
(Note: post authorisation species permits where relevant)				
National Environmental Management: Integrated Coastal Management		Х		Х
Act				
National Environmental Management: Protected Areas Act		Х		Х
National Environmental Management: Waste Act	Х		Х	
(Note: Integrated authorisation application process as part of this EA				
application form)				
National legislation				
Mineral Petroleum Development Resources Act	Х			Х
(Note: S102 EMPr amendment will be submitted during the later EIA				
application stage)				
National Water Act	Х		Х	
(Note: application underway and running concurrent with EA/WML				
application process)				
National Heritage Resources Act		Х		Х
Others: Please specify				

Please provide proof of submission of applications in Appendix 5.

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.

An integrated EA and WML application process will be undertaken to include the NEMWA activities.

8. 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.

NOTE: The potential environmental impacts relating to this Cluster 2 application are mirrored in the approved Cluster 1 EMPr as Cluster 2 is an expansion of the current activities being undertaken under the Production Right. The table below therefore lists the activities as they apply to both Cluster 1 and Cluster 2. The intention is to amend the approved Cluster 1 EMPr as part of this Cluster 2 application with inclusion of any additional specific mitigation measures required as identified through the EIA process.

ACTIVITIES (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etcetcetc 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, etcetc)	PHASE (of operation in which activity will take place). State; Planning and design, Pre- Construction, Operational, Rehabilitation, Closure, Post closure.	SIZE AND SCALE (of Disturbance) (volumes, tonnages and hectares or m ²)	TYPICAL MITIGATION MEASURES (Eg, storm water control, dust control, noise control, access control, rehabilitation etc, 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)
Production Wells Exploration drilling per well = 50 m X 50 m (2500 m ²). Production well infrastructure = 1.54 m ² .	Construction and Operational	~100 ha for exploration drilling operations. 462 m ² for production well footprints.	 Inform other users in writing of intent to undertake exploration drilling and comply with reasonable request to reduce the impact. Negotiate compensation for interference with other users where necessary. Locate exploration drilling in consultation with landowners to minimise impact on current land use. Planning and location of production well infrastructure taking consideration of long term impact on current land use. 	EMPr
Drilling waste storage facilities	Construction	~4000 m ³	 Prevent contamination of surface and groundwater resources utilising suitable barrier systems. 	EMPr (WMP)

ACTIVITIES	PHASE (of operation in	SIZE AND SCALE	TYPICAL MITIGATION MEASURES	COMPLIANCE WITH
(E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etcetcetc 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, etcetcetc.)	which activity will take place). State; Planning and design, Pre- Construction' Construction, Operational, Rehabilitation, Closure, Post closure.	(of Disturbance) (volumes, tonnages and hectares or m ²)	(Eg, storm water control, dust control, noise control, access control, rehabilitation etc, etc,)	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)
			 Dispose of waste at a suitably licenced waste disposal facility. 	
Gas Pipelines	Construction and Operational	~64 km of pipelines	• Ensure pipelines are installed at a suitable depth below ground to prevent obstruction to surface activities (including agricultural practices such as ploughing depths). This will also serve as a safety measure to prevent accidental rupture of the pipeline.	EMPr
Booster Stations	Construction and Operational	3920 m² / 0.392 ha	 Locate inline booster stations within reasonable proximity to existing powerlines to access electricity supply. Locate inline booster stations in suitable areas to minimise impact on current land use and optimise existing access roads. 	EMPr
Compressor Stations	Construction and Operational	1.08 ha	 Locate inline compressor stations within reasonable proximity to existing powerlines to access electricity supply. Locate inline compressor stations in suitable areas to minimise impact on current land use and optimise existing access roads. 	EMPr
Pigging Stations	Construction and Operational	~16 m ² per pigging station	Locate inline pigging stations in suitable areas to minimise impact	EMPr

ACTIVITIES	PHASE (of operation in which activity	SIZE AND SCALE (of	TYPICAL MITIGATION MEASURES	COMPLIANCE WITH STANDARDS
(E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etcetcetc 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, etcetcetc.)	which activity will take place). State; Planning and design, Pre- Construction, Operational, Rehabilitation, Closure, Post closure.	(volumes, tonnages and hectares or m ²)	(Eg, storm water control, dust control, noise control, access control, rehabilitation etc, etc,)	(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)
			on current land use and optimise existing access roads.	
Low Point Drains	Construction and Operational	~16 m ² per pigging station	• Locate inline low point drains in suitable areas to minimise impact on current land use and optimise existing access roads.	EMPr
Access Roads	Construction and Operational	~2 m wide access roads. Location and length dependent on exploration drill sites which can only be determined based on drilling data received during exploration phase.	 Negotiate proposed construction (temporary) as well as operational (permanent) access roads with the affected landowners. Access roads must be suitably located taking cognisance of site sensitivities as identified in the EIA and EMPr. Erosion protection measures must be installed where relevant to prevent preferential flows which could cause scouring sedimentation of watercourses etc. 	EMPr
LNG/LHe Plant	Construction and Operational	~9.6 Ha	 Clearance of the site must proceed in a phased manner while the plant is constructed to prevent unnecessary clearance of vegetation and exposure of bare soil. Topsoil stripping and adequate storage must be undertaken to prevent the loss of topsoil and 	EMPr / AEL

ACTIVITIES	PHASE	SIZE AND	TYPICAL MITIGATION	COMPLIANCE
	(of operation in which activity	SCALE (of	MEASURES	WITH STANDARDS
(E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etcetcetc 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, etcetcetc.)	will take place). State; Planning and design, Pre- Construction, Operational, Rehabilitation, Closure, Post closure.	(volumes, tonnages and hectares or m ²)	(Eg, storm water control, dust control, noise control, access control, rehabilitation etc, etc,)	(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)
			topsoil must be used during rehabilitation.	
			 Dust suppression must be undertaken on unpaved or gravel roads. 	
			 Stormwater Management Plan must be implemented to prevent uncontrolled runoff from site. Water from "dirty" areas must be directed to the evaporation pond to prevent possible contamination of surrounding water resources. 	
			 Emissions must be monitored on a regular basis during the operational phase of the plant. 	
Temporary laydown and camps	Construction	~15.4 Ha	• Clearance of the laydown areas	EMPr
Various contractor laydown camps during construction phase and will include offices, ablution facilities, parking, fencing, waste storage areas, material			 and construction camps must proceed in a phased manner as and when various contractors mobilise to site. Topsoil stripping and adequate storage must be undertaken to prevent the loss of topsoil and topsoi	
storage, etc. These camps will be located adjacent to the LNG/LHe Plant area			topsoil must be used during rehabilitation of the laydown areas and construction camps. • Dust suppression must be	
and possibly one at compressor station A.			undertaken on unpaved or gravel roads.	

ACTIVITIES	PHASE (of operation in	SIZE AND SCALE	TYPICAL MITIGATION MEASURES	COMPLIANCE WITH
(E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etcetcetc 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, etcetcetc.)	which activity will take place). State; Planning and design, Pre- Construction' Construction, Operational, Rehabilitation, Closure, Post closure.	(of Disturbance) (volumes, tonnages and hectares or m ²)	(Eg, storm water control, dust control, noise control, access control, rehabilitation etc, etc,)	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)
			 Erosion control measures must be implemented. Waste separation and storage areas must be clearly demarcated and waste removed from site on a regular basis. Waste is to be disposed of at a suitably licenced waste disposal facility. Sufficient ablution facilities must be provided for and must be maintained in a clean and hygienic state. Sewage must be collected by a suitable and licenced waste contractor. 	
Evaporation Pond The Evaporation Pond will be constructed within the LNG/LHe Plant boundary and have an installed capacity of 1005 m ³ and cover an area of 103 m X 67 m (6901 m ²). This facility will contain the dirty water from the operations and this water will be treated in the RO plant for reuse. Brine from water treatment will be disposed of offsite by a	Operational	6901 m ²	 The evaporation pond must be fenced off with suitable safety signage erected to warn of the potential dangers. Relevant safety equipment must be available at all times. Water monitoring must be undertaken in accordance with the General Authorisation for the facility. 	EMPr

ACTIVITIES	PHASE	SIZE AND	TYPICAL MITIGATION	COMPLIANCE
	(of operation in	SCALE	MEASURES	WITH
	which activity	(of		STANDARDS
(E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etcetc E.g. for minig,- 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,	will take place). State; Planning and design, Pre- Construction' Construction, Operational, Rehabilitation, Closure, Post closure.	Disturbance) (volumes, tonnages and hectares or m ²)	(Eg, storm water control, dust control, noise control, access control, rehabilitation etc, etc,)	(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)
conveyors,				
etcetcetc.)				
third-party licenced waste operator.				
The evaporation pond is not within or near to a watercourse and therefore LN1 Activity 12 and 48 or LN3 Activity 23 are not triggered. Furthermore the storage volume is below the threshold in LN1 Activity 13 and 50.				
No NEMWA activities are triggered by the evaporation pond.				
Sewage Treatment Plant & Reverse Osmosis (RO) Plant The Reverse Osmosis Plant (RO Plant) design capacity is to produce 4m ³ /hour (96 m ³ /day). The Sewage Treatment Plant design capacity is 30m ³ /day.	Operational	<0.1 ha	 The sewage and RO plants must be maintained in a sound state to ensure that adequate treatment of waste water is undertaken. All brine or sludge must be adequately stored and disposed of at a suitably licenced waste disposal facility. 	EMPr
The RO design capacity equates to 96 m ³ /day which is below the 100 m ³ /day threshold in LN1 Activity 25 so therefore				

ACTIVITIES (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etcetcetc 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, etcetcetc.)	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 (Eg, storm water control, dust control, noise control, access control, rehabilitation etc, 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)
not triggered. The Sewage Plant design capacity is only 30 m ³ per day so well below the threshold in LN1 Activity 25. The Evaporation Pond will be constructed within the LNG/LHe Plant boundary and have an installed capacity of 1005 m ³ and cover an area of 103 m X 67 m (6901 m ²).				

9. 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.

NOTE: The Closure Aspects and Closure Plan relating to this Cluster 2 application are mirrored in the existing Cluster 1 Closure and Financial Provisioning and both Cluster 1 and Cluster 2 fall under the approved Production Right (Ref: 12/4/1/07/2/2). It is therefore the intention is to adjust the Cluster 1 NEMA Financial Provisioning to reflect and incorporate the Cluster 2 new expansions.

Baseline environment Describe how the baseline environment will be determined with the input of interested and affected parties and due cognizance of the current land uses and or existing biophysical environment	The baseline environment will be determined through the desktop assessments and specialist studies utilising GIS data and available datasets such as NFEPA, CBA, and BGIS as well as site visits and any information shared by I&APs. Potential site sensitivities will be investigated and land uses both on site and in the surrounding area will be identified. A questionnaire will be shared with I&APs as well as on the EIMS website in an attempt to request feedback on various aspects such as existing landuses, the social and biophysical environment, tenants, occupiers, land claims, identification of other I&APs as well as provide an opportunity to share comments on any potential impacts of the proposed development.
Closure objectives Describe the closure objectives and the extent to which they will be aligned to the baseline environment	The overall closure objective will be to ensure that the post closure environment aligns with the pre-development as far as reasonably possible. Closure of the project on completion of production activities will require the removal and safe disposal of surface infrastructure. Grouting/cementing (plugging) of the wells will be undertaken to prevent interplay between the gas reserve or the shallow and deeper aquifers. Ongoing water monitoring will be undertaken post closure to monitor the water resources for any pollution from the sealed wells. The impacts of closure and post-closure will be further assessed and detailed in the EIA Phase Report.
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.	The aerial extent (square meters or hectares) of the production operation is provided in Section 5 above. At the closure phase, it is anticipated that the project will consist of ~300 production wells, pipelines and associated inline facilities as well as the LNG/LHe Plant and associated infrastructure. The site rehabilitation plan will be investigated and presented in the EMPr during the EIA Phase.
Rehabilitation Cost Describe how the rehabilitation cost will be determined and provide a preliminary estimate thereof	The Cluster 1 rehabilitation and closure costs will be adjusted to include Cluster 2 and the required adjustments will be required for the financial provisioning. 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 EIA Report to be compiled during the EIA Phase. A rough estimate of the Cluster 2 costs is in the order of R100-R200 million but this can only be more accurately presented once the necessary assessments and cost calculations have been completed.
Decommissioning	Surface rehabilitation of the underground pipelines and temporary laydown/camps will take place following construction while other infrastructure such as wells, inline stations, roads,

Considering that	LNG/LHe Plant etc will be rehabilitated following decommissioning at the end of production
rehabilitation must take	activities.
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.	

1 -1 Per

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

Tetra4 (Pty) Ltd Name of company (if applicable):

18 November 2022

Date:

APPENDIX 1 DECLARATION OF THE EAP

I, Brian Whitfield, declare that -

General declaration:

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

Disclosure of Vested Interest (delete whichever is not applicable)

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

Į.,

Signature of the environmental assessment practitioner:

Environmental Impact Management Services (Pty) Ltd - EIMS Name of company:

21 October 2022 Date:

List of Appendices:

- Appendix 1_EAP CV.pdf
- Appendix 2_1. Project History and Mineral Tenure_Overview.jpg
- Appendix 2_2. Locality Map.jpg
- Appendix 3_1 ROD Highland Production.pdf
- Appendix 3_2 Cluster 1 EA.pdf
- Appendix 3_3 Cluster 1 EA Amendment 1.pdf
- Appendix 3_4 Cluster 1 EA Amendment 2.pdf
- Appendix 3_5 AEL.pdf
- Appendix 4_Site Plan.jpg
- Appendix 5_WUL Application Proof of Commencement.pdf
- Appendix 6_0. Table of properties.pdf
- Appendix 6_1. Parent Farms.jpg
- Appendix 6_2. Farm Portions overview.jpg
- Appendix 6_3. Farm Portions inset 1.jpg
- Appendix 6_4. Farm Portions inset 2.jpg
- Appendix 7_Impact Assessment Methodology.pdf
- Appendix 8_1. DFFE Screening Tool Report.pdf
- Appendix 8_2. SSVR.pdf
- Appendix 9_Initial Public Participation



Meeting Details

Meeting	PASA EIA Pre-Application Meeting		
Meeting	Microsoft Teams	Date	21 July 2022
Venue		Time	09H00-10H11

Meeting Attendees

Representative	Company	Email Address
Phumla Ngesi (PN)	Petroleum Agency of South Africa (PASA)	NgesiP@petroleumagencysa.com
Sharon Adams (SA)	Petroleum Agency of South Africa (PASA)	SharonA@petroleumagencysa.com
Khalid Patel (KP)	Tetra4 (Pty) Ltd	khalid@renergen.co.za
Gerhard Muller (GM)	Tetra4 (Pty) Ltd	gerhard@renergen.co.za
Brian Whitfield (BW)	Environmental Impact Management Services (EIMS)	brian@eims.co.za

Additional Distribution

R	epresentative	Company	Email Address
None			

Page 1 of 7

EIMS ENVIRONMENTAL MANAGEMENT SERVICES					
EIMS Ref	1473	Project Name	Tetra4 Cluster 2 Gas Production Project EIA		

Agen	Agenda				
Item					
1. 1	Introductions				
2. F	Project Background and Description				
3. F	Project Approach and Timeframes				
4. [Discussion				
5. (Conclusion				



Minutes

ltem No	Item	Action	Date
1	Introductions		
	Introductions were made prior to commencement of the meeting.	All	Note
2	Project Background and Description		
	BW utilised a presentation to provide an overview of the project background in the context of the approved Production Right and Cluster 1 authorisation. The presentation is attached for record purposes.	All	Note
3	Project Approach and Timeframes		
	BW presented the listed activities applicable to the project which require a full S&EIA process to be followed.	All	Note
	The application would follow an approach of amending the existing approved Cluster 1 EMPr by incorporating any additional management measures or actions relating to Cluster 2 and/or amending any current measures where relevant.		
	Similar to the Cluster 1 authorised approach, a risk-based approach (sensitivity map) will guide the process of mitigating impacts where infrastructure may be needed to connect wells to the main gas transmission infrastructure and this infrastructure falls outside of the 600 m/300 m transects.		
	BW provided indicative timeframes for the application phases namely call to register, Application submission, scoping and EIA phases. Thereafter the proposed process to be followed for public participation was discussed for each of the consultation phases.		
4	Discussion		
4.1	BW indicated that the intention was to submit a separate application (apart from the Cluster 2 application) for the 132kV powerline which is required for the new LNG/LHe Plant. The reason for this separate application was to facilitate the handover of relevant permits and licences to Eskom once the powerline was constructed. BW indicated that while the powerline would be mentioned in the Cluster 2 reports, it would be clearly stated that a separate application process would be followed.	All	Note

Page 3 of 7



1473

Minutes of Meeting

EIMS Ref

Project Name

Tetra4 Cluster 2 Gas Production Project EIA

ltem No	Item	Action	Date
	PN queried whether the associated 132kV powerline application would be submitted to the provincial Competent Authority.		
	BW confirmed that the powerline application would be submitted to the provincial CA.		
4.2	PN queried why the existing LNG/LHe Plant was not sized to include both Cluster 1 and Cluster 2 gas volumes.	All	Note
	KP clarified that at the time Cluster 1 was applied for, the reserve and resource report indicated a certain volume of gas upon which the plant was designed. Then recently in 2019 Tetra4 obtained an update to the reserve and resource report which indicated significantly more gas which would require an additional plant. In summary the plants are built on a design capacity for a certain gas volume and certain components cannot readily be modified for greater capacity.		
	PN then asked if there would be any further requirements for additional plants in the future which could be applied for now.		
	KP responded that the Cluster 2 plant is sized on the current confirmed reserve and resource which is confirmed to be economically viable. In the future, once more exploration data is obtained in the production right, an additional plant may be required however this cannot be confirmed with any degree of certainty at the moment due to lack of information.		
4.3	PN queried whether the calculation of the clearance of vegetation was based on construction and operational phase and whether consideration was given to all the project infrastructure.	All	Note
	BW confirmed that all the construction and operational phase clearance of vegetation was considered for all project infrastructure. It was noted that the NEMA listed activities relating to clearance of vegetation was specifically excluded from linear infrastructure such as pipelines however the temporary clearance for pipelines would be temporary (construction) and then immediately rehabilitated or returned to the pre-construction condition.		
4.4	PN questioned whether the newspaper advertisement placed in the Vista Newspaper was only in English.	All	Note
	BW confirmed that the advert was placed in the 3 languages (English, Afrikaans and Sesotho) which are the predominant languages in the area.		

Page 4 of 7



Minutes of Meeting

EIMS Ref

1473 Project Name

Tetra4 Cluster 2 Gas Production Project EIA

tem No	ltem	Action	Date
	PN then queried if the consultation process would be undertaken in an inclusive manner (such as catering for illiterate people or groups, etc).		
	BW confirmed that the PPP process would include open days, meetings as well as focus group meetings and that attempts would be made to identify any people requiring specific forms of communication. The identified local communities would be specifically consulted in a manner that ensures inclusive consultation (e.g. meetings in suitable venues within close proximity to communities, providing transport where necessary, etc). These identified communities were directly contacted during the call to register and would be further consulted in the next consultation phases too. Should any specific communication requirements be identified, focus group meetings would be held with those individuals or groups in a manner that ensures transparent and inclusive consultation.		
	SA queried whether the community meetings and consultation would be within the application area or some distance away and furthermore if the timing of the consultation would take into consideration the people that work during the day.		
	BW stated that the communities would be consulted within the application area through focus group meetings. These meetings would be within the communities themselves or at least within close proximity to the communities. The timing of the meetings would cater for those people who can only be consulted after working hours.		
1.5	On the list of specialist studies, PN raised the point that Climate Change is of specific interest to the public on these types of applications and therefore must be included in the assessment.	All	Note
	BW confirmed that a Climate Change specialist study was being undertaken and would in fact include Scope 1, Scope 2 and Scope 3 assessments which are over and above the legislated requirements.		
1.6	On the list of NGO's identified for this project, PN stated that should PASA identify any others, these would be communicated to EIMS.	All	Note
1.7	On the landowner consent requirements, PN confirmed that landowner consent was not required for as part of the application as specified in the NEMA Regulations (which were recently amended).	All	Note
4.8	A discussion was held around the POPI Act and whether pre-identified I&APs who were notified of the project but did not respond or request to be registered, if they should be removed from the database moving	All	Note



Minutes of Meeting

EIMS Ref 1473

Project Name

Tetra4 Cluster 2 Gas Production Project EIA

Item	Item	Action	Date
No		/////	Dute
	forward (i.e. no further consultation). The general consensus was that all pre-identified I&APs should remain on the database throughout the application process unless they specifically requested to be removed from the database.		
4.9	BW questioned whether PASA would be able to provide a list of existing mineral rights holders within the application area to confirm if there are any competing rights (e.g. coal bed methane, etc). PN agreed to follow up with the DMRE in an attempt to obtain such information. PN requested a locality map and shapefiles in support of this request.	BW to share locality map and shapefiles with PM	21 July 2022
		PASA to follow up with DMRE	ТВА
4.10	BW questioned if PASA has any suggestions of the sub-directorates within DFFE and DMRE to include.	All	Note
	On the list of sub-directorates within DFFE and DMRE, PN suggested the DFFE EIA division be included as well as DMRE provincial office and DMRE Mine Health and Safety directorate.		
4.11	BW queried if there are any other decision support tools and or guidelines that must be considered.	All	Note
	PN indicated that the relevant regulations must be complied with as a standard. Furthermore, based on recent experience on types of these applications, the needs and desirability must be clearly presented and the DFFE Needs and Desirability Guidelines must be consulted.		
4.12	BW requested confirmation on the submission requirements for the application and reports (hard copy vs electronic, online portals – PASA vs SAMRAD).	All	Note
	PN stated that the application should be submitted electronically (no hard copy required). The SR and EIR can also be submitted electronically for official receipt purposes but then followed up with a single hard copy. Both the "draft" and "final" copies of the SR and EIR must be submitted to the PASA. The hard copy does not have to be delivered on the same day as the electronic copy however within reasonably short time (e.g. a day or two later). The PASA is aiming to become more paperless through this process.		
	At this stage the PASA online portal is not yet fully active but will be communicated to EIMS as and when this becomes active. The		

EIMS ENVIRONMENTAL MANAGEMENT SERVICES			Minutes of Meeting
EIMS Ref	1473	Project Name Tetra4 Cluster 2 Gas Production Project EIA	

ltem No	Item	Action	Date	
	SAMRAD portal is not the correct one to use for petroleum applications. SAMRAD is for solid minerals. So in summary, no online portal submissions at this time.			

Adopted by:

Brian Whitfield

Name

V Signature

EIMS / EAP

Organisation

Name

Signature

Organisation

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: info@petroleumagencysa.com

Ref: 12/4/007 Enquiries: Z Mazwana: +2721 938 3574 4 August 2022

Email: brian@eims.co.za Cc: khalid@renergen.co.za

Mr. Brian Whitfield Environmental Impact Management Services (Pty) Ltd 8 Dalmeny Road Pine Park Randburg 2194

Dear Mr. Whitfield

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

The above application refers.

Your application for an Environmental Authorisation in terms of Regulation 16 of the Environmental Impact Assessment Regulations, 2014 (EIA Regulations) in respect of Production Right Number 12/4/007 is hereby acknowledged.

You are required to submit a Scoping Report as contemplated in Regulation 21(1) of the Environmental Impact Assessment Regulations, 2014 on or before the **05th of September 2022**. Please take note that the Scoping Report must be subjected to a public participation process of at least 30 days.

Furthermore, you are required to notify us of the dates and places you intend to hold public consultation meetings.

Yours sincerely,

MANAGER: LICENSING AND REGULATION

Directors:



mineral resources & energy

Department: Mineral Resources and Energy REPUBLIC OF SOUTH AFRICA

> Enquiries: Mr BP Mohasoa E-mail: Peter.Mohasoa@dmre.gov.za EAP Reg No.: 2022/4684

Ref: 12/4/007

Attention: Mr B Whitfield

Email: brian@eims.co.za

Environmental Impact Management Services (Pty) Ltd

8 Dalmery Road

Randburg

2194

Dear Mr Patel

ACCEPTANCE OF THE FINAL SCOPING REPORT IN RELATION TO THE INTERGRATED ENVIRONMENTAL AUTHORISATION APPLICATION FOR THE PROPOSED CLUSTER 2 NATURAL GAS PRODUCTION ACTIVITIES, FREE STATE PROVINCE.

The Final Scoping Report (FSR) dated 08th September 2022 refers.

The Department of Mineral Resources and Energy (hereafter referred to as "the Department") has evaluated the information contained in the Final Scoping Report (FSR) and the Plan of Study for the Environmental Impact Assessment (EIA) and is satisfied that the documents comply with the minimum requirements of Appendix 2(2) of the National Environmental Management Act, 1998 (Act 107 of 1998): Environmental Impact Assessment Regulations, 2014 (hereafter referred to as "EIA Regulations, 2014"). The FSR is hereby accepted in terms of Regulation 22 (a) of the EIA Regulations, 2014. You may therefore proceed with the EIA in accordance with the tasks contemplated in the Plan of Study for the EIA submitted with the FSR and appendices 3-6 of the EIA Regulations, 2014.

You are required to consider the following as you proceed to the next phase of the EIA process:

Ref: 12/04/007

- Financial provision for rehabilitation and decommissioning must be determined in accordance with the Regulations Pertaining to the Financial Provision for Prospecting, Exploration, Mining or Production Operations, 2015. In addition, the specialist must undertake the determination of quantum.
- The public participation process proposed in the Plan of Study for the EIA is noted and deemed acceptable. As part of the proposed process, you are required to include the Provincial Department of Environmental Affairs when requesting comments from the Regulatory Authorities.

You are required to submit one hard copy and a soft copy of the final EIA report, Environmental Management Programme, and any supporting documentation to the Petroleum Agency SA within 106 days from the date of this decision.

Please contact the aforementioned if you need clarity on any matter raised.

Yours sincerely,

MR TEELISO MAQUBELA DEPUTY DIRECTOR-GENERAL: MINERAL AND PETROLEUM REGULATION DATE: /7 - // - 2022