



mineral resources

Department:
Mineral Resources
REPUBLIC OF SOUTH AFRICA

APPLICATION FORM FOR ENVIRONMENTAL AUTHORIZATIONS IN TERMS OF THE NATIONAL 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 not 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 authorizations in terms of the said Acts.
2. This application form is applicable while the Mineral and Petroleum Resources Development Amendment Act of 2008 is effect, as the form may require amendment should the Act be further amended.
3. Applicants are required to apply for the necessary water use license and any other authorizations or licenses to the relevant competent authorities as required by the relevant legislation. Upon acceptance of an application for a right op permit in terms of the MPRDA, applicants will be required to provide evidence to the Regional Manager that a water use license 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 extent 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 authorization and consequently of the right or permit applied for.

7. This application must be submitted through the SAMRAD online application system of the Department of Mineral Resources under: Other documents to upload”.
8. Unless protected by law, all information filled in on this application form will become public information on receipt by the competent authority. Any interested and affected party should and shall be provided with the information contained in this application on request, during any stage of the application process.
9. Please note that an application fee is payable in terms of the National Environmental Management Act and the National Waste Management Act, which fees must be paid upon lodgement of the application. Should the said application fees not be paid as prescribed the application for a right or permit in terms of the Mineral and Petroleum Resources Development Act cannot be considered to have been made in the prescribed manner and the said application for a right or permit will have to be rejected. In this regard the type of applications must be identified in the table below.

PLEASE STATE TYPE OF AUTHORIZATION BEING APPLIED FOR

APPLICATION TYPE	APPLICABLE FEE	Mark with an X where applicable
NEMA S&EIR application on its own	R 10 000.00	
NEMA BAR application on its own	R 2 000.00	X
NEMWA S&EIR application on its own	R 10 000.00	
NEMWA BAR application on its own	R 2 000.00	
NEMA S&EIR application combined with NEMWA S&EIR application	R 15 000.00	
NEMA BAR application combined with NEMWA BAR application	R 3 000.00	
NEMA S&EIR application combined with NEMWA BAR application	R 11 000.00	

1. CONSULTATION BASIC ASSESSMENT AND/OR SCOPING REPORT

2. DETAILS OF THE APPLICANT

Project Applicant	PITSO 7STAR SAND EN KLIP (PTY) LTD		
Registration no (if any):	2017/195080/07		
Responsible Person, (e.g. Director, CEO, etc.):	Sehlabeka Stephen Pitso		
Contact Person:	Henko Sevenster		
Physical Address:	13 Van Reenen Street, Kroon Heuvel, Kroonstad.		
Postal Address:	13 Van Reenen Street, Kroon Heuvel, Kroonstad.		
Postal Code	9599	Cell:	072 059 0605
Telephone:		Fax:	086 503 5494
E-Mail:	admin@7ster.co.za		

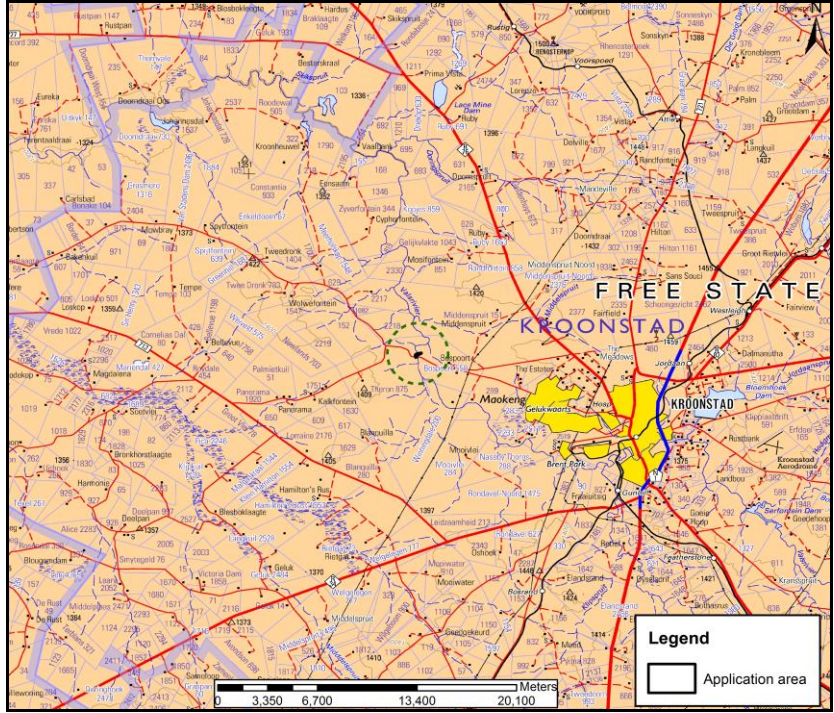
3. ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP) INFORMATION

EAP:	Lindie Wiehahn		
Professional affiliation / registration	J.F Grobbelaar SACNASP: 400283/06 Tel: 082 654 3933		
Contact person, (if different from EAP):			
Company:	LW Consultants		
Physical Address:	19 Park Road, Belgravia, Kimberley		
Postal Address:	PO Box 3226, Kimberley		
Postal Code	8300	Cell:	072 141 4164
Telephone:	053 831 7634	Fax:	086 606 6315
E-Mail:	lindie@liwico.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 (indication the experience with environmental impact assessment and relevant application processes) of the EAP must also be attached as **Appendix 1**.

4. PROJECT DESCRIPTION

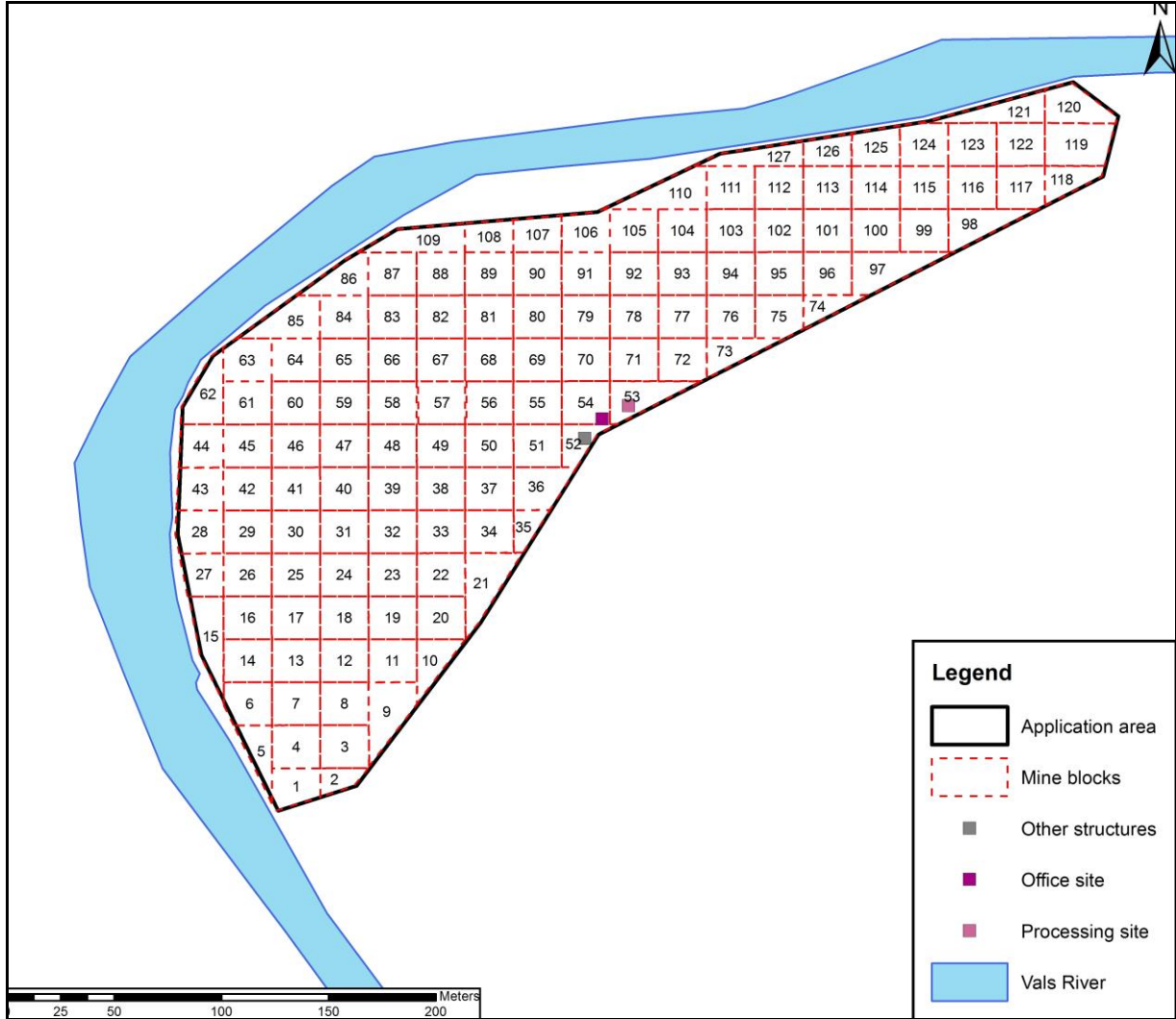
Farm name:	A portion of the Remainder of the farm Bospoort 558
Application area (Ha)	4,9554 ha (Four comma nine, five, five four hectares)
Magisterial district:	Kroonstad
Distance and direction from nearest town	The proposed project area is situated 16,2 km north west of the town Kroonstad, and 67,3 km south east of Bothaville.
21 digit Surveyor General Code for each farm portion	F02000000000055800000
Locality map	<p>Attach a locality map at a scale not smaller than 1:250 000 as Appendix 2</p> 
Description of the overall activity. (Indicate Mining Right, Mining Permit, Prospecting Right, Bulk Sampling, Production Right, Exploration Right, Reconnaissance Permit, Technical Co-operation Permit, Additional listed activity.)	<p>Mine permit through open cast mining using the following methodology</p> <p>Loading and hauling:</p> <ul style="list-style-type: none"> • The area will be mined and rehabilitated in blocks of 20 X 20 m at a time. • Removing the topsoil and overburden by means of excavating, loading and hauling the material to a separate storing area and kept safe from contamination for use with rehabilitation in its respective manner. • Removing of Sand (general) (QY) by means of excavation, loading and hauling to the processing site where it will be screened, classified and stockpiled for sales. • The vehicle will haul the backfilling material back to the excavated area upon return ensuring maximum productivity.

	<p>Processing:</p> <ul style="list-style-type: none">• The sand will be screened.• The sand will be classified according to their size.• The excess material screened out will be stockpiled and used for rehabilitation by means of backfilling of the excavated area. <p>Rehabilitation</p> <ul style="list-style-type: none">• Rehabilitation will commence once the first block has been excavated and will continue as the mine progresses from block to block, thus ensuring that rehabilitation is kept up to date with the progress of the mine.• Rehabilitation by means of backfilling with the stored waste material from the plant site, where possible, until all the waste material from plant site have been depleted and sloping the sides of remaining excavation to less than 30° to create a safe post mining state as close as possible to the pre-mining state.• A 3 year monitoring schedule will be implemented to ensure vegetation re-growth in the area.
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5. ACTIVITIES TO BE AUTHORIZED

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

(For an application for authorization that involves more than one listed activity that, together, make up one development proposal, all the listed activities pertaining to this application must be indicated. Please note that any authorization that may result from this application will only cover activities specifically pertaining to this application must be indicated. Please not that any authorization that may result from this application will only cover activities specifically applied for). (Attached a proposed site plan, drawn to a scale acceptable to the competent Authority, showing the location of all the activities to be applied for as **Appendix 4**).



NAME OF ACTIVITY (E.g. for prospecting – drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc ... etc... etc E.g. for mining – excavations, blasting, stockpiles, discard dumps or dams, loading, hauling and transport, water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc ... etc ... etc.)	Aerial extent of the Activity Ha or m²	LISTED ACTIVITY (Mark with an X where applicable or affected).	APPLICABLE LISTING NOTICE (GNR 544, GNR 545 OR GNR 546)	WASTE MANAGEMENT AUTHORIZATION (Indicate whether an authorization is required in terms of the Waste Management Act). (Mark with an X)
Mining				
Excavation	0.08	X	NEMA GNR 327, Listed 1, Activity 21	
Topsoil	-	X	NEMA GNR 327, Listed 1, Activity 21	
Overburden	0.04	X	NEMA GNR 327, Listed 1, Activity 21	
Stock piles	0.04	X	NEMA GNR 327, Listed 1, Activity 21	
Waste dumps	0.04	X	NEMA GNR 327, Listed 1, Activity 21	
Office site	0.0008	X	NEMA GNR 327, Listed 1, Activity 21	
Processing site	0.04	X	NEMA GNR 327, Listed 1, Activity 21	
Ablution Facility	0.0008	X	NEMA GNR 327, Listed 1, Activity 21	
Vehicle storage	0.0408 ha	X	NEMA GNR 327, Listed 1, Activity 21	
Diesel storage	0.0005 ha	X	NEMA GNR 327, Listed 1, Activity 21	
Domestic waste facility	0.0008	X	NEMA GNR 327, Listed 1, Activity 21	
Access road	0.2	X	NEMA GNR 327 Listed 1, Activity 21	
Mine road		X	GNR 327, Listed 1, Activity 21	

6. PUBLIC PARTICIPATION

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

Details of the Public Participation process to be followed.

6.1.1 IDENTIFICATION OF INTERESTED AND AFFECTED PARTIES TO BE CONSULTED

IDENTIFICATION CRITERIA		Mark with an X where applicable	
		YES	NO
Will the landowner be specifically consulted?		X	
Will the lawful occupier on the property other than the Landowner be consulted?		X	
Will a tribal authority or host community that may be affected be consulted?		X	
Will 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 meters of the area be consulted?		N/A	
Will Authorities responsible for public roads or railway lines within 100 meters of the area applied for be consulted?		N/A	
Will Authorities responsible for any other infrastructure within 100 meters of the area applied for be consulted? (Specify)		N/A	
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 interest (whether it be socio-economic, cultural, heritage or environmental) will be affected by the proposed mining / prospecting project?		X	
Other, Specify	Consultation with the South African Heritage Resources Agency and the Land Commissioner for regarding registered heritage sites or land claims that may be involved in the project		

6.1.2 DETAILS OF THE ENGAGEMENT PROCESS TO BE FOLLOWED

<p>Steps to be taken to notify interested and affected parties (Describe the process to be undertaken to consult interested and affected parties including public meetings and 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 5.)</p>	<p>PROVIDE DESCRIPTION HERE</p> <p>Once the application for a Mining Permit and Environmental Authorization has been accepted and notice thereof received in terms of the MPRDA, 2002 all interested and affected parties will be notified and consulted in the following order:-</p> <ul style="list-style-type: none"> • Written notices with all necessary information provided. • Newspaper advertisements (one local and one district) inviting general public to register as an interested or affected party in order to receive needed information • Notice will be published on consultant's webpage for easy access to information • All written responses will be answered in writing • Notice of public meetings at least 14 days prior to scheduled date • One-on-One meetings with the identified farm owner, lawful occupier of land and should it be deemed necessary with farm owner / lawful occupier of the neighbouring farms. <p>Attached as Appendix 5 is samples of the notices to be provided to the identified Interested and / or Affected parties.</p>
<p>Information to be provided to Interested and Affected Parties.</p>	<p>Compulsory</p> <ul style="list-style-type: none"> • The site plan • List of activities to be authorized • Scale and extent of activities to be authorized • Typical impacts of activities to be authorized (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.) <p>Other, specify:</p> <ul style="list-style-type: none"> • Regulation 2.2 plan as submitted with the application for a Mining Permit at the DMR

Information to be required from Interested and Affected Parties.	<p>Compulsory</p> <ul style="list-style-type: none"> • To provide information on how they consider that the proposed activities will impact on them or their socio-economic conditions. • To provide written responses stating their suggestions to mitigate the anticipated impacts of each activity • To provide information on current land uses and their location within the area under consideration • To provide information on the location of environmental features on site to make proposals as to how and to what standard the impacts on site can be remedied, requested to make written proposals. • To mitigate the potential impacts on their socio-economic conditions to make proposals as to how the potential impacts on their infrastructure can be managed, avoided or remedied.
	<p>Other, specify:</p> <ul style="list-style-type: none"> • To indicate whether or not they have an objection, comment or approval in regard to the proposed project • To provide information on how they regard the existing status of the biophysical, socio-economic, cultural and heritage environment

7. DESCRIPTION OF THE ASSESSMENT PROCESS TO BE UNDERTAKEN

ITEM	DESCRIPTION
<p>Environmental attributes. Describe how the Environmental attributes associated with the development footprint will be determined.</p>	<p>Environmental attributes will be determined through the following:</p> <ul style="list-style-type: none"> • Desktop studies on information already available on the consultant's database • Information provided by the consulted Interested and/or Affected parties during the public consultation process • Arranged field visit with the authorization of the land owner or lawful occupier
<p>Identification of impacts and risks. (Describe the process that will be used to identify impacts and risks.)</p>	<p>The process to be followed for identifying potential impacts and risks will be done by determining any impact that each aspect of the operations may have on the surrounding environment and studying the impacts identified by the consulted Interested and/or Affected parties.</p>
<p>Consideration of alternatives. Describe how alternatives, and in particular the alternatives to the proposed site layout and possible alternative methods or technology to be applied will be determined</p>	<p>Any alternative identified and considered will be through the following:</p> <ul style="list-style-type: none"> • Environmental sensitivity and current land use • Consultation with Affected parties • Determination of least vulnerable area for environmental degradation

<p>Process to assess and rank impacts. Describe the process to be undertaken to identify, assess and rank the impacts and risks each individual activity</p>	<p>Assessment and ranking of potential impacts will be done with consideration towards the following</p> <ul style="list-style-type: none"> • Environmental sensitivity and location of the project area • Nature and size of project • Actual footprint of the project in relation to the project area • Duration of the project and individual activities <p>The significance of impacts is evaluated as follows.</p> <ul style="list-style-type: none"> • Severity <ul style="list-style-type: none"> ○ Low negative impact – indicates a state of ‘calmness’ concluding that the effect the operations may have on the environment is so insignificant that the wellbeing of the environment or any individual will not be degraded or prohibited ○ Medium negative impact – describes a state of ‘manageable stress’, giving the idea of that the effect of the operations on the environment is significant enough to cause tolerable disturbance to the wellbeing or overall conditions of the environment of any individual ○ High negative impact – indication a state of ‘high stress’, meaning that the effect of the operations on the environment is so significant that the wellbeing and overall conditions of the environment or any individual will be degraded or prohibited. • Duration <ul style="list-style-type: none"> ○ Short-term –rated as a period less than 2 years and is indicated as a low impact ○ Medium-term – rated as the period between 2 and 5 years and indicated as a medium impact. ○ Long-term – rated as any period exceeding 5 years and indicated as a high impact. • Spatial Scale <ul style="list-style-type: none"> ○ Localized – the disturbance occurs within a radius of 500m from point of existence and indicates as low impact ○ Fairly widespread – the disturbance is carried over a short distance, between 500m and 1km radius from point of existence and indicated as medium impact. ○ Widespread – disturbance exercise a negative effect over an area greater than 1 km radius from point of existence and indicated as high impact.
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	<ul style="list-style-type: none"> • Consequence <ul style="list-style-type: none"> ○ Low consequence – meaning that the probability of cumulative impact occurrence is minimal with little to no lasting effects and is indicated as low impact. ○ Medium consequence – meaning that the probability of cumulative impact occurring exist with a moderate, short-term lasting effect and is indicated as medium impact. ○ High consequence – meaning that the probability of cumulative impact occurrence is absolute with a short to medium-term lasting effect and indicated as high impact. • Significance <ul style="list-style-type: none"> ○ Low overall significance – the disturbance caused by the impact is minimal with an excellent probability for total recovery after operations ceased. ○ Medium overall significance – the disturbance caused by the impact is moderate with a good chance for total recovery over an intermediate period after operations ceased. ○ High overall significance – the disturbance cause by the impact is severe with a poor to no probability for recovery after operations ceased.
<p>Contribution of specialist reports. Describe how specialist reports, if required, will be taken into consideration and inform the impact identification, assessment and remediation process.</p>	<p>Most specialist studies are needed in order to investigate the potential environmental impacts associated with the mining activities, while other more technical specialist are needed to provide strategies and technical specifications for infrastructure that could potentially alleviate impact on the environment. Terms of reference for each of these studies are unique, but include the identification and delineation of respective environmental attributes, assessing the state of these attributes, identifying potential impacts relating to these attributes and making recommendations regarding mitigation measures and legal requirements.</p> <p>The following aspects of the environment as a whole will be considered in the baseline studies.</p> <ul style="list-style-type: none"> • Surface water and groundwater • Fauna and Flora • Heritage

<p>Determination of impact management objectives and outcomes. Describe how impact management objectives will be determined for each activity to address to potential impact as source, and how the impact management outcomes will be aligned with standards.</p>	<p>Impact management objectives will be done through mitigation, management or avoidance measures. The determination of these measures will be done through looking at every aspect of the mining activities and mining related activities with the possible impacts that may result. Each of these identified possible impacts will then be rated in severity and probability from which the measures will be determined to which will minimize the severity of the impact per activity.</p> <p>The following will be considered (but are not limited to) for guidance in determining the impact management objectives:</p> <ul style="list-style-type: none"> • The applicant's institutional objectives, policies and practice • Impact management objectives from specialist reports • The various relevant national and Provincial Acts and Regulation • The general objectives of integrated environmental management laid down in the NEMA, ensuring that environmental considerations are fully integrated into all stages of the development process in order to achieve a desirable balance between conservation and development • The sustainable development objectives of the MPRDA • South African National Standard • Industry best practice guidelines • Resource water quality objectives • Applicable environmental quality objectives. • Closure objectives.
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8. OTHER AUTHORIZATIONS REQUIRED

LEGISLATION	Mark with an X where applicable			
	AUTHORIZATION REQUIRED		APPLICATION SUBMITTED	
	YES	NO	YES	NO
SEMA s				
National Environmental Management Act: Air Quality Act		X		
National Environmental Management: Biodiversity Act		X		
National Environmental Management: Integrated Coastal Management Act		X		
National Environmental Management: Protected Areas Act		X		
National Environmental Management: Waste Act		X		
National legislation				
Mineral Petroleum Resources Development Act (Act 28 of 2002) as Amended	X		X	
National Water Act.1998 (Act 36 of 1998)		X		
National Heritage Resources Act (Act 25 of 1999)		X		
Others: Please specify				

Please provide proof of submission of application in **Appendix 6**.

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

			Noise management	<ul style="list-style-type: none"> • The mine shall restrict all operations that result in undue noise disturbance to day light hours on week days • The mine shall be responsible for compliance with the relevant legislation with respect to noise
			Chemical management	<ul style="list-style-type: none"> • No vehicle repairs and maintenance will occur within the operational area and are restricted to the workshop • All vehicles used in operations will be parked during off time within the vehicle storage area and not on site • All chemical spills will be rehabilitated immediately
			Waste management	<ul style="list-style-type: none"> • Littering of any product, including cigarette buds, at any operational site shall be seen as an offence, and will not be tolerated • The mine shall be responsible for any clean up resulting from the failure by his employees or suppliers • The mine shall ensure that all suppliers and the delivery drivers are aware of procedures and restrictions in terms of this document
			Safety	<ul style="list-style-type: none"> • The mine entrance will be clearly marked with all regulatory signs, to indicate a potential dangerous zone • Vehicles will be equipped with a red flag on a long enough rod to be easily observed by the heavy vehicle drivers and a roll bar. • Hard hats, ear plugs, safety glasses, dust masks, gloves, hard point boots, reflector vests and overalls will be supplied and is compulsory before entering the mining area.
	Operational		Dust management	<ul style="list-style-type: none"> • A speed limit of 40 km/h will be implemented • Suppression of dust on the roads will occur by the spraying of chemical bounded/fresh water

			Noise management	<ul style="list-style-type: none"> • The mine shall restrict all operations that result in undue noise disturbance to day light hours on week days • The mine shall warn all residents that could be disturbed by noise generating activities well in advance and shall keep such activities to a minimum • The mine shall be responsible for compliance with the relevant legislation with respect to noise.
			Chemical management	<ul style="list-style-type: none"> • No vehicle repairs and maintenance will occur within the operational area and are restricted to the workshop • All vehicles used in operations will be parked during off time within the vehicle storage area and not on site • All chemical spills will be rehabilitated immediately
			Waste management	<ul style="list-style-type: none"> • Littering of any product, including cigarette buds, at any operational site shall be seen as an offence, and will not be tolerated • The mine shall be responsible for any clean up resulting from the failure by his employees or suppliers • The mine shall ensure that all suppliers and the delivery drivers are aware of procedures and restrictions in terms of this document
			Safety	<ul style="list-style-type: none"> • The mine entrance will be clearly marked with all regulatory signs, to indicate a potential dangerous zone • Vehicles will be equipped with a red flag on a long enough rod to be easily observed by the heavy vehicle drivers and a roll bar. • Hard hats, ear plugs, safety glasses, dust masks, gloves, hard point boots, reflector vests and overalls will be supplied and is compulsory before entering the mining area. • All prospecting areas where driving occurs on a narrow potentially dangerous road, will be clearly marked with command / warning signs

	Rehabilitation			<ul style="list-style-type: none"> • Personnel need to be trained on Health and Safety matters in line with the Health and Safety act for mining and in handling and the remediation of chemical spills • Continuous rehabilitation will be done during the course of the project • All chemical spills will be rehabilitated immediately • Rip and rehabilitate all unused roads and access ways • All erosion channels developed during the project period shall be back-filled and compacted and the areas restored to a proper condition • Rehabilitation will be finalized by the planting of indigenous species, with regular inspections for the removal of invader / pioneer species.
	Post closure			<ul style="list-style-type: none"> • A 2 to 3 year after-care plan is initiated to ensure a satisfying vegetation re-growth rate and the successful establishment of indigenous vegetation
Topsoil	Operational	-		<ul style="list-style-type: none"> • Placed near the excavation site for final rehabilitation purposes
Overburden	Operational	0.04 ha		<ul style="list-style-type: none"> • Placed near the excavation site for final rehabilitation
Stock piles	Operational	0.04 ha		<ul style="list-style-type: none"> • Stock pile dumps will be placed near the plant site for hauling back to the excavated area for rehabilitation.
Waste dumps	Operational	0.04 ha		<ul style="list-style-type: none"> • Waste dumps will be stored and continuously used for backfilling of completed mine excavations
Office site	Construction	0.0008 ha		<ul style="list-style-type: none"> • All buildings will consist of appropriate signs indicating function and potential dangers • No indigenous shrubs or trees will be unnecessarily uprooted.
	Operational			<ul style="list-style-type: none"> • Littering of any product, including cigarette buds, at this site shall be seen as an offence and will not be tolerated • Several sites will be identified and water tanks will be erected for safe human water consumption

Processing plant	Construction	0.04 ha		<ul style="list-style-type: none"> • All infrastructure will consist of appropriate signs indicating function and potential dangers
	Operational			<ul style="list-style-type: none"> • When working on equipment outside the workshop, the appropriate measures needs to be implemented to prevent chemical spillage • Related waste / scrap must be dispose of in the appropriate manner • Littering of any product, including cigarette buds, at this site shall be seen as an offence and will not be tolerated • Washing of equipment shall be restricted to urgent maintenance requirements only • Hard hats, ear plugs, safety glasses, dust masks, gloves, hard pint boots, reflector vests and overalls will be supplied and is compulsory before entering the area
Ablution Facility	Construction	0.0008 ha		<ul style="list-style-type: none"> • Concealed septic tanks must be installed above ground, where it can be regularly inspected for leakage • No indigenous shrubs or trees will be unnecessarily uprooted.
	Operational			<ul style="list-style-type: none"> • Ablution blocks shall be at all times be sanitized • Sanitary bins will be provided within the building, no sanitary material will be allowed within the septic tanks • All human waste and related waste will be contained within septic tanks installed for this purpose • Septic tanks and chemical toilettes will be chemically treated and maintained by a contracting agency • The local municipality may be contracted on the draining of the septic tank and the removal of its contents to the sewerage plant of their choice • Sanitary material within the bins provided will be closed in coloured plastics and disposed off with domestic waste

				<ul style="list-style-type: none"> Littering of any product, including cigarette buds, at this site shall be seen as an offence and will not be tolerated
Vehicle storage	Construction	0.0408 ha		<ul style="list-style-type: none"> A demarcated fenced-off area away from the operational site will be cleared for vehicle storage and parking
	Operational			<ul style="list-style-type: none"> Areas must be continuously inspected for spillages and remedied. Drip-pans will be readily available and no parked heavy vehicle will be without a drip pan Daily checking of oil/diesel leakages before vehicle is operated Littering of any product, including cigarette buds, at this site shall be seen as an offence and will not be tolerated.
Diesel storage	Construction	0.005 ha		<ul style="list-style-type: none"> Diesel tanks will stand in a leak proof bay, supporting the tank volume plus 10%. The floor area must be constructed as a gradient and a run-off sump to capture all contaminated water to be treated by a separator. All buildings will consist of appropriate signs indicating function and potential dangers
	Operational			<ul style="list-style-type: none"> Vehicles which are filled with fuel will park on a cement floor for if any spillage occurs it can be cleaned Two fire extinguishers will be present at all times
Domestic waste facility	Construction	0.0008 ha		<ul style="list-style-type: none"> Containers will be installed and clearly marked for this purpose Waste storage containers shall be covered, tip proof, weatherproof and scavenger-proof The waste storage area shall be fenced off to prevent wind-blown litter

	Operational			<ul style="list-style-type: none"> • The mine shall ensure that all facilities are maintained in a neat and tidy condition and the site shall be kept free of litter • It is preferable that people is aware of the splitting of waste into their different categories, e.g. glass, plastic, paper, tin and other waste • No burning, on site burring or dumping of waste shall occur
	Rehabilitation			<ul style="list-style-type: none"> • Contracts with the local municipality / agencies will be signed for the removal of these containers on an appropriate schedule of once a week, but if found necessary twice a week
Access road	Operational	0.2 ha		<ul style="list-style-type: none"> • Maintenance of the road throughout the entire project timeframe

10. CLOSURE PLAN

<p>In the space provided under each heading below, please provide a high level description of the plan for closure and the information that will be provided in the draft EMPr accompanying draft basic assessment report or environmental impact reports going forward.</p>	
<p>Baseline environment Describe how the baseline environment will be determined with the input of interested and affected parties and due cognizance of the current land uses and or existing biophysical environment.</p>	<p>The baseline environment will be determined through</p> <ul style="list-style-type: none"> • Desktop studies on information already available on the consultant's database • Information provided by the consulted Interested and/or Affected parties during the public consultation process • Arranged field visit with the authorization of the land owner or lawful occupier
<p>Closure objectives Describe the closure objectives and the extent to which they will be aligned to the baseline environment</p>	<p>The closure objectives are to create a post-mining state as close as possible to the pre-mining state of the environment. The area will be rehabilitated according to the procedures to be stipulated in the Environmental Management Programme and to the satisfaction of the Department Mineral Resources and the land owner.</p>
<p>Rehabilitation Plan Describe the scale and aerial extent of the prospecting or mining listed activities to be authorized, including the anticipated prospecting or mining area at the time of closure, and confirm that a site rehabilitation plan drawn to a suitable scale will be provided in the draft EMPr to be submitted together with the draft EIR or Basic Assessment Report as the case may be.</p>	<p>The total aerial extent for the mining activities to be authorized and rehabilitated is 5 hectares in extent, but only 0.49554 hectares of disturbance will occur during any time period. As rehabilitation is planned as an integral part of the mining activities final rehabilitation during decommissioning of the project will be minimal and rehabilitation cost less costly.</p> <ul style="list-style-type: none"> • Mine activities as a whole is foreseen to have a total footprint of 0.2 ha (Excavation – 0.08 ha, Overburden – 0.04 ha, Stockpiles – 0.04 ha and Waste dumps 0.04 ha). As rehabilitation forms an integral part of the operations and a given mine block will be mined separately and the disturbed area rehabilitated. From commencement of a mine block to the following mine block, the actual footprint of the activity at any given time period will not exceed: <ul style="list-style-type: none"> ○ Excavation : < 800m² ○ Overburden dump : < 400m² ○ Stock piles : < 400m² ○ Waste dumps : < 400m² • Office site (8 m²) will be active for the duration of the activity. Rehabilitation of this will include the removal of all infrastructure where after the compacted area is ripped and rehabilitated. • Processing site (400 m²) will be constructed before the commencement of the mine activities and will be active for the duration of the mine. Rehabilitation of this will include the removal of all infrastructure where after the compacted area is ripped and rehabilitated.

- Ablution facilities (8 m²) is installed before mining operations start and active till the decommissioning of the mine. On commencement of the mine activities and implementation of related compulsive infrastructure will the ablution facilities installed in the vicinity of the office site where it will remain stationary till the decommissioning of the project. Ablution contractors will be used to facilitate in the removal of these structures and the compacted area ripped and rehabilitated.
- The vehicle storage area (0.0408 ha) is designed to house designated vehicle parking (0.02 ha), concrete constructed wash bay (0.006 ha), vehicle maintenance workshop (0.01 ha) and an auto-parts storage facility (0.0048 ha). These mentioned facilities will be implemented during the construction phase of the mining activities and decommissioned during closure of the project. Rehabilitation entails the decommissioning and removing of all infrastructure, where after the area as a whole is ripped and rehabilitated.
- The diesel storage facility (0.005 ha) will be active for the duration of the mining activity. The footprint will house the diesel bay containing tank volume plus 10%, with tank (0.0018 ha) and re-fueling floor (0.0032 ha). Rehabilitation of this include the removal of all infrastructure where after the compacted area is ripped and rehabilitated.
- The domestic waste facility (8 m²) will be a fenced-off area demarcated and implemented during the construction phase of the mining activities. During rehabilitation will be area be cleared of the waste bin as well as any litter that may exist within the enclosure. Only after the enclosed area has been cleaned up will the fencing material be removed and the area rehabilitated according set standard identified during the Impact Assessment process.
- All access (2 000 m²) and mine roads will be ripped and rehabilitated during the decommissioning of the project.

Rehabilitation Cost

Describe how the rehabilitation cost will be determined and provide a preliminary estimate thereof.

The rehabilitation cost will be determined through the given calculation tables obtained from the Department of Mineral Resources.

CALCULATION OF THE QUANTUM

Applicant: **PITSO 7STAR SAND EN KLIP (PTY) LTD** Location: **Bospoort 558**
Date: **Jul-17**

No.	Description	Unit	A		B		C		D		E=A*B*C*D Amount (Rands)
			Quantity	Master Rate	Multiplication factor	Weighting factor 1					
1	Dismantling of processing plant and related structures (including overland conveyors and powerlines)	m3	400	R 14.59	0.5	1				R	2,918.00
2 (A)	Demolition of steel buildings and structures	m2		R 203.28	1	1				R	-
2(B)	Demolition of reinforced concrete buildings and structures	m2		R 299.57	1	1				R	-
3	Rehabilitation of access roads	m2	2,000	R 36.38	0.5	1				R	36,380.00
4 (A)	Demolition and rehabilitation of electrified railway lines	m		R 353.06	1	1				R	-
4 (A)	Demolition and rehabilitation of non-electrified railway lines	m		R 192.58	1	1				R	-
5	Demolition of housing and/or administration facilities	m2		R 406.55	1	1				R	-
6	Opencast rehabilitation including final voids and ramps	ha	0.08	R 206,914.18	1	1				R	16,553.13
7	Sealing of shafts adts and inclines	m3		R 109.13	1	1				R	-
8 (A)	Rehabilitation of overburden and spoils	ha	0.08	R 142,079.64	1	1				R	11,366.37
8 (B)	Rehabilitation of processing waste deposits and evaporation ponds (non-polluting potential)	ha		R 176,957.63	1	1				R	-
8 (C)	Rehabilitation of processing waste deposits and evaporation ponds (polluting potential)	ha		R 513,968.83	1	1				R	-
9	Rehabilitation of subsided areas	ha		R 18,970.30	1	1				R	-
10	General surface rehabilitation	ha	0.0024	R 112,551.04	1	1				R	270.12
11	River diversions	ha		R 112,551.04	1	1				R	-
12	Fencing	m		R 128.39	1	1				R	-
13	Water management	ha		R 42,795.07	1	1				R	-
14	2 to 3 years of maintenance and aftercare	ha	0.2424	R 14,978.28	1	1				R	3,630.74
15 (A)	Specialist study	Sum								R	-
15 (B)	Specialist study	Sum								R	-
Sub Total 1										R	71,118.36
1	Preliminary and General	R		8,534.20	weighting factor 2		1			R	8,534.20
2	Contingencies	R						7,111.84		R	7,111.84
Subtotal 2										R	86,764.40
VAT (14%)										R	12,147.02
Grand Total										R	98,911.42

Decommissioning

Considering that rehabilitation must take place upon cessation of an activity, describe when each of activities applied for will be rehabilitated in terms of either the cessation of the individual activity or the cessation of the overall prospecting or mining activity

Rehabilitation occurs simultaneously with the mining activities as far possible. During the mining activities will backfilling start once the excavation is mined to such an extent that it is possible for rehabilitation.

- The waste material from the processing site is used for backfilling of excavation.
- Once all the material available for backfilling has been depleted, the mine will slope the remaining excavation sides to less than 30° to create a safe post mining environment.
- The rehabilitated area will be continuously inspected for invader/pioneer species and removed on to ensure a successful re-growth of indigenous vegetation.

All other listed activities will be removed and the areas rehabilitated before closure of the project.



Name of company: **Pitso 7Star Sand en Klip (Pty) Ltd**

Date: **20 July 2017**

APPENDIX 1
DECLARATION OF THE EAP

I, **LINDIE WIEHAHN**, declare that –

General declaration:

- I act as the independent environmental practitioner in this application
- I will perform the work relation to the application in an objective manner, even if this results in views and findings that are not favorable 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 interest 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 provide the competent authority with access to all information at my disposal regarding the application, whether such information is favorable 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 realize that a false declaration is an offence in terms of Regulation 71 of the Regulations and is punishable in terms of Section 24(f) of the Act.

Disclosure of Vested Interests (delete whichever is not applicable)

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

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



Signature of the Environmental Assessment Practitioner

Name of company: **LW CONSULTANTS**

Date **20 July 2017**

<p>Ek sertifiseer dat bostaande verklaring deur my algemeen is en dit verklaarder erken dat hi/sy vertrouwd is met die inhoud van hierdie verklaring en dit begryp. Hierdie verklaring is voor my boudig bevestig en verklaarder se handtekening/merk/duimafdruk is in my teenwoordigheid daarop aangebring.</p>	<p>I certify that the above statement was taken by me and that the deponent has acknowledged that he/she knows and understands the contents of this statement. This statement was sworn to/affirmed before me and deponent's signature/mark/thumbprint was placed thereon in my presence.</p>
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