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THE CONSTRUCTION OF <u>ATHINA</u> PORTIONS 66 OF FARM 443, BRAKKLOOF

ENVIRONMENTAL MONITORING CHECKLIST AND REPORT:

PRE-CONSTRUCTION AND CONSTRUCTION PHASE

November 2024

Complied by: Lizelle Genade (EAP 2023/7793)

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Environmental Authorisation Holder	Athina development (PTY) Ltd
Environmental Control Officer	Bluepebble CC
EA Reference Number	DEA&DP REF: 16/3/3/1/D1/14/0028/22
OSCAE File Reference	18/66&67/443/PB
CARA Reference Number	13/10/6/3K451
WULA Licence Number	02/K60G/CI/13424

Attention:	
Department of Environmental Affairs and DEADPEIAAdmin.George@westerncape.gov.z	
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1. Compliance Ratings, Non-Compliances and Detections

Compliance with the EA/EMPr is rated according to the system detailed below:

COMPLIANCE RATING	DEFINITION	PERCENTAGE
Full Compliance	Depicts EA/EMP conditions where the contractor is fully compliant with the particular condition. Where compliance with the condition is completed and compliant, the condition will be removed from the reporting.	100%
Partial Compliance	Depicts EA/EMP conditions where the contractor is partially compliance or where additional actions are required to ensure compliance.	60% -99%
Non-Compliance	Depicts EA/EMP conditions where the contractor is non-compliant.	< 60%
Not commenced yet	Depicts EA/EMP conditions that cannot be monitored or conditions associated with aspects of the project that have not yet commenced.	

Non-compliance with a condition of this environmental authorisation or EMPr is an offence in terms of Section 49A(1)(c) of the National Environmental Management Act, 1998 (Act no. 107 of 1998, as amended).

1998, as amended				
Document of	Activity in terms of authorization	Observation & Corrective action to be	Pic no.	Responsibility
reference		taken where necessary		
EMPr p53	Authorization - Authorisations, Licences and Permits (1)			
	All necessary authorisations, permits and licences must be obtained by the Applicant	Yes, NFA licenses will be applied for when		EA Holder
	prior to construction commencement. This includes permits for the removal of	and if necessary		
	protected plants.			
EMPr 53	Method statements (1)			
	Has Method Statements been submitted by the Applicant/ Contractor to the ECO	Method Statement have been received by Civil		Contractor/PM
	and DEA&DP for approval. Method Statements must be adhered to by the	Engineer. Thank you.		
	Applicant/ Contractor.	All placed in environmental file, kept on site.		
	❖ Stormwater management	Method statements from any new contractors		
	❖ Erosion control	would be required.		
	❖ Shoring (if required)	·		
	❖ Dust control			
	❖ Stockpile and storage areas			
	❖ Site preparation and construction			
	❖ Installation of services and roadways			
	❖ Road upgrade			
	❖ Solid waste management			
	Storage of hazardous materials (if applicable)			
	❖ Standard emergency procedures			
				•
EMPr 54, 55	Education of Site Staff on General and Environmental Conduct - A			
	general regard for the social and ecological wellbeing of the site and			
	adjacent areas is expected of the site staff. (7)			• • • •
	Has all contractors, sub-contractor and delivery personnel been briefed on the	Yes.		Contractor/PM
	Construction Phase Management Rules (Appended to the EMPr)? The main contractor must do these briefings before his staff will be allowed to work on the	Ongoing.		
	Estate. The main contractor remains the liable person.	Copy of environmental training has been given		
	Lotato. The main contractor femalis the liable person.	to contractor. Suggested they stick it onto		

	container wall for all to have access to dos and don'ts and to ensure they comply with EMPr. Should more induction be required as new contractors start on site, project manager need to inform ECO.	
Has all construction staff been adequately educated by the ECO as to the provisions included in the EMPr, and in terms of general environmentally friendly practice and was language considered during training?	Yes, Two inductions have already been done. One before demolition and one before construction of access road. Ongoing. Hard copy given to current contractor, to be kept on site. More inductions will be done as needed. Contractor to communicate this with ECO.	Contractor/ ECO
Has all contractors, sub-contractors and casual labourers acknowledged their understanding of the EMPr and environmental responsibilities by signing an induction attendance record?	Yes, Attendance register attached to Hard copy of training left on site. Any new staff needs to sign as well when inducted.	Contractor/ ECO
Has all staff, operating equipment, shall been adequately trained and sensitised to any potential hazards associated with their tasks?	Yes	Contractor
Has staff been made aware that they are not to make excessive noise e.g. shouting, hooting.	Yes	Contractor/ ECO
Where staff turnover is high and with additional appointment of Sub-contractors, it may be necessary to undertake additional induction training sessions. Contractor is responsible for all staff to be inducted and made aware of EA and EMPr. Hard copy of induction left on site for use by Contractor.	Yes, Contractor's responsibility, but ECO is available to do more inductions if required.	Contractor
Does the Contractor keep records of all environmental training sessions, including names, dates and the information presented?	Yes, on file on site.	Contractor

EMPr 55	Site establishment (11)			
	Has development area, area of works and spoiling areas been clearly identified and	Construction of access road completed.	13,45	Contractor
	demarcate using correct demarcation methods?	Construction of gate area nearing completion.	12,43	
		Demarcation have been removed. Some material		
		to be removed.		
	Has material stockpile sites been established within site camp s approved by ECO?	Small stockpiles left. Ready for removal.		Contractor
	Has a waste disposal area been established within site camp as approved by ECO?	Caged bin on site	9,21,	Contractor
			42	

	Has necessary ablutions facilities, on-site sanitation been established within site	Yes, toilet on site.	46	Contractor
	camp as approved by ECO?			
	Is temporary toilets serviced and cleaned on a regular basis.	Yes, weekly		Contractor
	Has a rest area for smoking and eating been established for workers?	No site camp anymore		Contractor
	Has water been provided for staff for drinking and washing?	Yes		Contractor
	Are all staff only using facilities provided for them, as opposed to ad-hoc alternatives	Yes, monitored by foreman.		Contractor
	(e.g. fires for cooking, the use of surrounding bush as a toilet facility is strictly			
	forbidden).			
	Any signs of open fires being made on site?	None observed on site visit		Contractor
Fire	Are there firefighting equipment on site?	None observed. Apologies if I missed it. Some		Contractor
Management		machinery has fire extinguishers on them as		
		standard practice.		
	Is smoking only done in designated areas where it does not pose a fire risk or adding	Yes, no smoking or cigarette butts observed.		Contractor
	to pollution?	No official smoking area as there are no site camp		
		anymore.		

Access (4)		
Are all vehicles staying clear of adjacent properties and any other no-go areas?	Yes	Contractor
Was any trespassing on private / commercial properties adjoining the site observed	None reported or observed.	Contractor
or reported?		
Does drivers of heavy-duty vehicles exercise care when travelling to and from the	Yes, no complaints received in this regard.	Contractor
site – and adhere to all legally enforceable requirements?		
Are all machinery in good working order?	No leaks observed from machinery on site.	

Site Management (5)			
Is construction footprint limited to the construction area? And has it been marked to	Site camp removed. Only construction at gate		Contractor
the satisfaction of ECO?	area and landscaping in communal area. No one		
	allowed outside of estate area		
Are all activities, materials, equipment, and personnel restricted to construction footprint, and not within the no-go area specified?	Yes, within estate area		Contractor
The applicant will be held responsible for any clean-up in the dune environment resulting from failure by the contractors or suppliers to properly secure material.	Yes, will be done if this occurs.		Contractor
Has adequate drainage and erosion protection been provided around the site and where necessary?	Drainage and erosion not an issue on estate site. However, runoff and erosion observed on Robberg road where road was raised. Contractor	28-33	Contractor

	was informed and requested to stabilize area to prevent future runoff and collapse	
Is dust pollution managed on all access points and other cleared surfaces? Must be dampened whenever necessary and especially in dry and windy conditions to avoid excessive dust. Alternatively, a binding product such as Dustex (supplied by Patch Industrial Supplies) could be used.	No dust pollution observed on site visits.	Contractor

EMPr 58	Waste management (9)			
	Is an integrated waste management system in place, which includes waste	Yes	42	Contractor
	minimisation, waste recycling and the proper storage and disposal of waste, which			
	does not impact of the health of the environment and human health?			
	Is waste being sorted according to the waste hierarchy, discarded in the appropriate	No. Only one bin observed on site for all waste.		Contractor
	manner and recorded (slips from facilities required)?	No recycling done.		
	Is site free of litter?	Site tidiness have improved, now that services		Contractor
		have been installed and access road have been		
		constructed.		
	Has an adequate number of appropriate bins been provided for construction workers	Yes. One bin is sufficient for current construction		Contractor
	and staff at locations around site and where they consume food, to collect all	area		
	domestic refuse, and to minimise littering?			
	Is ongoing awareness of the need to avoid littering being conducted with staff?	Yes		Contractor
	Any evidence of waste being buried or burned?	None observed on site visits		Contractor
	Any evidence of excavation and use of rubbish pits?	None observed on site visits		Contractor
	Is waste removed from the site on a weekly basis?	Yes		Contractor
	Is building rubble removed from site on a regular basis?	Rubble on site removed.		Contractor

EMPr 56	Storage and stockpiling (11)		
	The contractor will be allowed to erect green storage sheds/huts within the	Containers have been removed as service	Contractor
	boundaries of the building site and to a maximum height of 2,4 m. The position of	installation and access road have been	
	such structures must be indicated on the site diagram, which must be approved by	completed.	
	Estate Management & ECO.		
	Choice of location for equipment lay-down and storage areas must take into account	Yes	Contractor
	prevailing winds, distances to "No Go" areas, general on-site topography and water		
	erosion potential of the soil. Impervious surfaces, bunded areas or drip trays must be		
	provided where necessary.		
	Material stockpiles must be protected against rain and flooding.	Yes.	Contractor

	Equipment lay-down and storage areas must be designated, demarcated and signed.	Yes.		Contractor
	Stockpiles must not exceed 1.5m in height, must be covered with shade cloth or similar, to prevent erosion and any invasive alien species that begin to grow within it must be removed.	Topsoil and stockpilec not exceeding 1.5m	1,8,22,4 1	Contractor
Hazardous Materials	Material Safety Data Sheets (MSDSs) shall be readily available on site for all chemicals and hazardous substances to be used on site. Where possible and available, MSDSs must additionally include information on ecological impacts and measures to minimize negative environmental impacts during accidental releases or escapes.	None on site. Currently no hazardous material being stored on site.		Contractor
	Cement and other potential environmental pollutants must be stored within an impermeable bunded, roofed and sign posted area.	Currently no cement stored on site		Contractor
	The mixing of cement must be done on Rhino board.	Cement mixed in concrete trays and on boards. One small spill out of concrete tray. Was cleaned up n request of ECO	6,7,20	Contractor
	Minimise fuels and chemicals stored onsite.	Yes		Contractor
	Install bunds and take other precautions to reduce the risk of spills.	To be done when needed.		Contractor
	Implement a contingency plan to handle spills, so that environmental damage is avoided. Method statement required.	Yes. Received.		Contractor

EMPr 57	Erosion and Stormwater Control (5)		
	Soil disturbance during the removal of alien invasive plants must be minimised as	Yes	Contractor
	much as possible.		
	Storm water control must be undertaken to prevent soil loss and erosion impacts	Discussed above.	Contractor
	from the site.		
	Erosion prevention and control measures must be implemented. This may be by the	Erosion measures required on Robberg road.	Contractor
	use of mulch bags or silt fences. The engineer must provide a method statement for	Engineer to advise on measures needed to	
	site specific erosion methods.	prevent further runoff on road.	
	Provision shall be made for storm water management measures that will ensure	Stormwater management measures required on	Contractor
	effective run-off control and prevent erosion at run-off points.	Robberg road. Engineer to advise on measures	
		needed to prevent further runoff and erosion on	
		road.	
	The site must be stabilised where necessary using available materials, where	Yes.	Contractor
	possible. It is recommended that exposed soils are covered with wood chips, and	ECO has requested area on Robberg road to be	
	tree branches used to create berms. Any cut alien vegetation on site can be utilised	stabilized.	
	for this purpose if it is without seed.		

EMPr 57	Topsoil to be used in rehabilitation (3)			
	Is topsoil stored separate from other materials?	Yes	1,8	Contractor
	Topsoil piles no higher than 1.5m	Yes		Contractor
	Topsoil covered until used in rehabilitation or agricultural practise.	No		Contractor

EMPr 58	Installation of services and roadways (6)			
	Topsoil for trenching along the route for installation of services to be removed to 150	Service installation done		Contractor
	mm deep, maintained and replaced as the final compacted layer in the road			
	reserves.			
	In trenches of slopes over 25% grade - bio textiles and reseeding to be used to rehabilitate and protect the compacted topsoil.	Service installation done		Contractor
	Install a series of berms across the internal access road to retard flow from higher	Service installation done. Access road complete.		Contractor
	areas.			
	Building sites need to be surrounded with a trench and berm arrangement to contain all building site runoff.	To be done in next phase.		Contractor
	The proposed gabion retention pond needs to be constructed first with site runoff discharged into it.	Construction of retention structure complete.	44	Contractor
	The gabion retention/silt pond needs to be cleaned out prior to handing over the	To be done.		Contractor
	internal services.			

EMPr 8	Conservation of the Natural Environment (17)			
Fauna and Flora	Areas which are identified by the Environmental Control Officer (ECO) as being ecologically sensitive on or adjacent to the site are to be suitably demarcated to prevent damage by construction practices. These areas are to be recognised as "nogo" areas.	All demarcation netting have been removed as service installation and access road is complete.		Contractor
	No natural vegetation may be cleared without prior permission from the ECO and if applicable from any relevant authority. Indigenous vegetation that is removed is to be replanted either back to the point from which it was taken or must be replaced by new relevant indigenous vegetation.	Yes, botanist have been appointed for this purpose. Plants kept in nursery.		Contractor
	All alien invasive plant species must be continuously removed around the site. The best way to do this is to remove the plants from the roots by hand and leave the plants in the sun to dry out and die before disposal. Please refer to the Alien Plant Control Programme.	Yes, done. Chipped to be used on landscaping.	26	Contractor
	Disturbance to birds, animals and reptiles and their habitats must be minimized wherever possible.	Yes, care is taken not to disturb fauna on site.		Contractor

	Permission must be attained from the relevant authority (DFFE) to remove any of the specially protected Milkwood trees (Sideroxynoninerme) that still occur on the properties, even though they are small due to the recent fire.	Yes, NFA license will be applied for when removal of protected tree species are required. Currently trees are marked to ensure no damage. Or disturbance.		Contractor
	The proposed development will not have any flammable natural vegetation remaining. The fire risk was mostly posed by alien vegetation, which will be removed by the development.	Yes, alien vegetation was chipped and will be used on site. Some have been removed.		Contractor
	Clearing of vegetation for the construction phase must be undertaken in a phased approach such that clearing for the roads and services are undertaken first, and clearing for construction of dwellings is undertaken on approval of building plans and OSCAE permit. Details to be provided in method statement that must be compiled by the appointed Contractor for each phase of the development.	Yes. Ongoing. Monitored by ECO		Contractor
Preservation of natural habitats	Prior to the commencement of clearing the proposed building site, the contractor must undertake vegetation search-and-rescue on the site. This operation is a legal requirement to ensure that any endangered vegetation species is transplanted prior to work commencing on the erf.	Yes, has been conducted by botanist already appointed. Ongoing.		Contractor
	A Landscape consultant must be appointed prepare a landscape plan for implementation in the private and common areas.	Landscape plan has been done in the common areas and along access road. Is in the process of being planted.	27, 34-40	Contractor
Landscape Connectivity	A six (6) metre wide ecological corridor along the northern boundary of the development must be establish and maintain. The 6m wide servitude serves as a minor corridor for smaller wildlife, linking the wetland to the west with the coastal dunes to the east. The servitude must not be disturbed during construction activities and be cleared of invasive alien plants.	Ecological corridor area fenced from site.		Contractor
	No structures or infrastructure may be constructed in this servitude without authorisation. This ecological servitude must not be fenced on the eastern and western boundaries. The erection of perimeter fencing must exclude the eastern and western boundary of the corridor to allow for free movement of wildlife through the corridor	Yes, being adhered to. Ongoing. Monitored by ECO		Contractor
	Services (i.e., sewer line, pipeline, electrical cable etc.) must remain outside the west to east corridor.	Yes, service installation done.		Contractor
Foredune conservation	The primary dune system must be designated as a "No-Go" area and no encroachment will be allowed.	New barriers will be erected as private dwelling construction commences.		Contractor
	This area must be actively excluded from the developed area and must not suffer the dumping and other negative impacts that so often accompany building project.	Yes, will be constantly monitored.		Contractor

The invasive alien vegetation must be removed from the dunes to restore the	Yes, been done by appointed botanist. Will be	Contractor/
fragmented areas along the dune. This must be done under the guidance of an	ongoing management thereof.	Botanist
Invasive Alien Plant Control Plan.		
Beach pathways must be clearly delineated. No movement should be allowed	Yes, pathways done by botanist.	Contractor/
outside of the delineated areas to avoid trampling and to reduce erosion on the		Botanist.
foredune.		
Gardening and landscaping should not result in removal or destruction of vegetation	Yes	Contractor
which will either destabilize a primary or significant dune or cause a significant		
adverse effect on the dune system due to increased erosion by natural coastal		
processes or human movement, or detrimentally affect the ecology or habitat.		

EMPr 61	Heritage (1)		
	Should any heritage remains be exposed during excavations or any other actions on	Yes, noted.	Contractor
	the site, these must immediately be reported to the Provincial Heritage Resources	Will be reported if anything is exposed and	
	Authority of the Western Cape, Heritage Western Cape. Heritage remains uncovered	discovered.	
	or disturbed during earthworks must not be further disturbed until the necessary	None observed in October 2024	
	approval has been obtained from Heritage Western Cape.		
	Heritage remains may only be disturbed by a suitably qualified heritage specialist		
	working under a directive from the relevant Heritage Resources Authority.		
	Heritage remains include: meteorites, archaeological and/or paleontological remains		
	(including fossil shells and trace fossils); coins; indigenous and/or colonial ceramics;		
	any articles of value or antiquity; marine shell heaps; stone artefacts and bone		
	remains; structures and other built features with heritage significance; rock art and		
	rock engravings; shipwrecks; and/or graves or unmarked human burials including		
	grave goods and/or associated burial material.		

EMPr 63	Vegetation Rehabilitation – progressive rehabilitation must be carried out (4)		
	A 100% indigenous planting plan must be adhered to in terms of all planting carried out on the site. Consultation must be made with a Botanical Specialist for a site-specific vegetation list.	Yes	Contractor/ Botanist
	Erosion prevention and control measures must be implemented. Organic mulch or sandbags must be used to contain all sediment and prevent erosion during rehabilitation.	Landscaping being done. Should additional measures be out into place to prevent runoff on estate site, it needs to be implemented.	Contractor
	A Landscape consultant be appointed to recommend and implement the introduction of an indigenous landscape plan to protect the existing indigenous vegetation and to prepare a landscape plan for implementation in the private and common areas.	Yes, a landscaper has been appointed for common areas. Landscaping currently being done.	Contractor/ Botanist

All disturbed open space areas are to be rehabilitated using locally occurring	Yes	Contractor/
indigenous vegetation (plant list available in Section 12).		Botanist

	Best practice (6)		
EMPr p6	In order of priority aim to: avoid, minimise or remedy disturbance of ecosystems and loss of biodiversity;	Constantly being monitored by ECO	EA Holder/ Contractor
	Avoid degradation of the environment and avoid jeopardising ecosystem integrity;	Constantly being monitored by ECO	EA Holder/ Contractor
	Pursue the best practicable environmental option by means of integrated environmental management.	Constantly being monitored by ECO	EA Holder/ Contractor
	Protect the environment as the people's common heritage;	Constantly being monitored by ECO	EA Holder/ Contractor
	Control and minimise environmental damage; and	Constantly being monitored by ECO	EA Holder/ Contractor
	Pay specific attention to management and planning procedures pertaining to sensitive, vulnerable, highly dynamic or stressed ecosystems.	Constantly being monitored by ECO	EA Holder/ Contractor

Site photographs

















Conclusion

Service installation and internal access road has been completed

Minimal material still being stored on site, ready for removal. Small amount of rubble and waste still on site. Overall site is relatively neat and tidy.

The raised area on Robberg road is showing runoff, leading to erosion on the wetland side of the road. Contractor was made aware of this, and they will put measures in place to stabilize area and address stormwater runoff.

85/91 - 93% Compliance