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ENVIRONMENTAL COMPLIANCE MONITORING REPORT NO.26

FOR

OUTENIKUASBOSCH, FARMS OUTENIKUASBOSCH 149 AND HARTENBOSCH
217, HARTENBOS



OUTENIKUASBOSCH

The Wildlife Village

Compiled by:

HilLand Environmental

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OUTENIKUASBOSCH, FARMS OUTENIKUASBOSCH 149 AND HARTENBOSCH 217, HARTENBOS

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Environmental Monitoring Report No. 26

This report monitors compliance against the Environmental Management Plan (Ref.: MOS22/455/48). This monitoring report constitutes the 26th Environmental Monitoring Report and covers inspections done during **August 2023** for:

Action:	Phase:	Comment:
Service installations	4, 11, 12, 13, and 14	Phases 4, 11, and 13 are monitored for rehabilitation. Phases 12 and 14 are monitored during civil installations.
Housing construction	1, 2, 3, 4, 10, 11, and 13	The Operational phase - It is now important to ensure that all construction areas are demarcated appropriately to prevent any unauthorised entry or accidental injury (residents and animals). All effort should be made to ensure that the estate is always kept neat and tidy, this includes litter, construction rubble and management of invasive alien plants and weeds.

General notes:

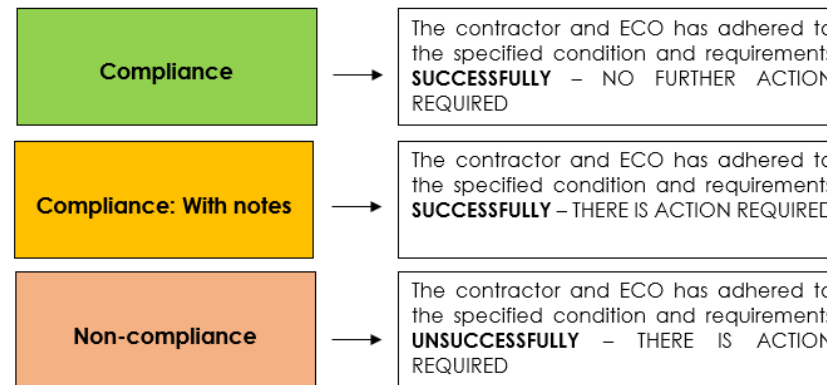
- **Weekly** ECO monitoring takes place during **civil** services construction phase, and **monthly** during individual **house** construction.
 - **Section A - civil services construction phase** ECO report – Monthly reporting.
 - **Section B – individual houses construction phase** ECO report – bi-annual reporting.
- This ECO report covers compliance monitoring for all works to date in terms of the EMPr and the EA in relation to civil services installation.
- Commencement of **all listed activities** for the development (including the Resort zone) has taken place in accordance with the EA. The main road to the resort area has been constructed and the decking at the first resort unit complies with the aesthetic requirements.
- Garden and private rehabilitation areas of each erf must be approved by the landscaping committee (and ECO) to ensure compliance with the EMPr and EA. This is to avoid property owners planting exotic or invasive plants in their garden or private rehabilitation area.
- The HOA's Landscaping committee will assist with and oversee the approval of individual home gardens as well as landscaping and rehabilitation of the development nodes internal green/open spaces. The ECO is part of this HOA committee to ensure that there is always compliance with the EMPr and EA.

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1. SECTION A – CIVIL CONSTRUCTION ECO MONITORING

The following will serve as an interactive checklist, compiled by the ECO, and directed to the management of **civil installations**. Different colours represent the level of compliance, whereby partial compliance and compliance with notes require action.



EMPr requirements	Phase 12	Phase 14	Comments / Findings	Action required
SPECIFICALLY REQUIRED ENVIRONMENTAL MANAGEMENT PRACTICES				
1.1. Environmental induction				
All contractors (civil and housing) must be briefed during environmental induction.			There has been no need for environmental induction during this monitoring period:	No further action required.
1.2. Demarcation of NO-GO areas				
NO-GO areas must be properly demarcated to the satisfaction of the ECO. This may include the use of any material agreed upon by the ECO (e.g., silt fences).			Phases 12 & 14: Civil installation is done within the demarcated (as pegged by the surveyor) development area. Conservation corridor between phases 12 and 14 have been demarcated with painted wooden stakes. Phase 12 site camp is within a previously disturbed area.	Construction haul routes to be demarcated to prevent operators and delivery drivers from going off the dedicated haul route.

All people working on site must be made aware of the boundaries in which work is to be done.					The NO-GO areas are known. (Constantly raise awareness in toolbox talks)	No further action required.
Should access be required through a no-go area, permission must be obtained from the ECO in writing prior to the use of such an area.					To be approved by the ECO, should it be required. Phase 14 electrical connection was approved through the conservation corridor.	No further action required
1.3. Fauna and flora						
Animal rescue strategy should be implemented prior to bush clearing, when the site is surveyed. The ECO must sign off areas prior to earthworks commencing.					No issues have been noted or reported.	No further action required
Plant search and rescue is required before physical construction start - no indigenous vegetation may be cleared from site without the prior approval of the ECO.					Plant search and rescue programme continues and must continue to progress ahead of services installation. Rescue material is relocated within the estate as directed by the ECO and management.	No further action required
1.4. Topsoil stripping						
Topsoil must be stripped from all construction areas before work commences. This topsoil should be stockpiled for use in rehabilitation and landscaping and must not be contaminated with other building/construction materials.					Topsoil is generally placed directly next to earthworks/trenches etc. during civil installation to be used for rehabilitation once installation is complete	No further action required
1.5. From The Department Environment Forest and Fisheries (DFFE)						
Trenches for sewage and water pipes, running through forested areas, must be dug manually wherever possible.					There have been no new trenches dug through forest areas during this monitoring period.	No further action required
All steps must be taken to preserve as much as possible indigenous trees, e.g., trees may form an integral part of a development.					No indigenous trees are disturbed without the approval of the ECO and farm management. No issues noted or reported.	No further action required
1.6. Heritage requirements						
Should any heritage remains be exposed during excavations or any actions on the site, these must immediately be reported to the Provincial					No heritage remains have been exposed during this report period.	No further action required

Heritage Resources Authority of the Western Cape, Heritage Western Cape (in accordance with the applicable legislation).							
CONSTRUCTION MITIGATION REQUIREMENTS							
1.7. Contractors site management							
The contractors' campsite is to be set up in the area indicated and approved by the ECO for this purpose and must be fenced off from the game.						Due to the size of the development, there are currently two site camps, within ECO and management approved locations at phases 4 and 12. The site camps areas must be rehabilitated once construction is complete.	Ensure that the necessary demarcation at the site camps is maintained and that the sites are rehabilitated once construction is complete.
This site camp must be within an area that is within the construction / development area.						The active site camps fall well within the area of construction.	No further action required
Portable ablution facilities (chemical toilets) are to be provided at the camp site for use of the staff. Additional facilities are to be always provided closer to areas of work.						There are ablution facilities at the secondary site camp. No incidents have been recorded so the facilities as deemed efficient.	No further action required
A fenced off area must be created within the site camp for refuse and waste management as indicated above. ECO to inspect for compliance.						There is no fenced area for the waste. The waste (cement bags paver rapper etc.) are generally stored in the container or in a drum	It remains the responsibility of the contractor to ensure that the construction area is kept clean.
Burning is not permitted as a disposal method for the entire property.						No incidents have been recorded.	No further action required
Any concrete batching areas are to be approved by the ECO prior to utilization and must be equipped with suitable settling ponds and trapping mechanisms to ensure that contaminated water does not leave the restricted area.						Currently, cement/concrete mixing are done within the road surface.	No further action required.
Any temporary haul roads or access roads for construction need to be always maintained by the contractor including demarcation, dust monitoring and management etc.						The main temporary haul route used to access Outeniquasbosch is maintained well.	Construction haul routes to be demarcated to prevent operators and delivery drivers from

					Construction haul routes to be demarcated to prevent operators and delivery drivers from going off the dedicated haul route.	going off the dedicated haul route.
1.8. Stormwater and erosion management						
The use of erosion control mechanisms such as erosion berms, silt fences, rows of onion bags, mulch, brushwood and deflection bars (the choice depending on the situation), is essential in all exposed areas and where slopes are steep, as runoff can cause erosion.					The appropriate mitigation methods are in place. Ongoing maintenance of the silt fences – keeping it clean, remove silt and make sure they are upright.	Ongoing maintenance of the silt fences – keeping it clean, remove silt and make sure they are upright
It is the responsibility of the contractor digging a trench to ensure that the erosion control measures are in place throughout the period of risk (i.e., until backfilled and stabilised).					Erosion protection at the open trenches must be maintained.	The contractor needs to ensure that erosion control measures are in place when digging/excavating.
In the event of erosion damage or silt movement, the contractor is responsible for the clean-up required to reinstate the conditions to normal.					Due to the storm events, and the silt fences overfilling, silt is flowing into the conservation area (between phases 12 and 14).	Ongoing maintenance of the silt fences – keeping it clean, remove silt and make sure they are upright. Remove silt in the conservation area (by hand)

1.1 PHOTOGRAPHIC RECORD OF CIVIL CONSTRUCTION COMPLIANCE

This section includes photographic record of ECO site inspections for August 2023 - **phase 12** and **phase 14**.

Phase	Photographic record	Comment and requests
12		Phase 12 construction site camp and paved main road.
	 17 August 2023 15:56	Overview of the phase 12 construction site.
	 04 August 2023 11:05	Topsoil and subsoil stockpile next to the road.

14		Stormwater and sewer infrastructure rehabilitation can now start. Erosion protection to be installed in the meantime – sandbags, silt fences and or mulch filled onion bags etc. on the shaped slopes. Topsoil to be spread over the shaped surface and erosion protection implemented.
12 & 14		Topsoil is placed directly adjacent to the construction area – road or trench. It remains important to the contractor to keep topsoil and subsoil separate and replace the topsoil back (on top) when backfilling and rehabilitating.
12		Temporary haul routes to be demarcated to prevent confusion with operators and delivery vehicles and to prevent driving off the road.

		
12		Phase 12 site camp
12 & 14		Both phases 12 and 14 have silt fences installed. <u>Request:</u> Maintain silt fences (clear silt regularly) to ensure that the function of silt fences is efficient.



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Services installation. Note that this period was extremely wet – heavy storms.

Erosion protection to be installed and maintained, especially if a storm is predicted.



1.9. REHABILITATION SPECIFICATIONS FOR THE CONSTRUCTION AREA

During the monitoring period of August 2023, **phase 12** and **phase 14** were under civil construction. Phases **4, 11,** and **13** currently have no further civil construction activities.

Rehabilitation entails the following, but not limited to:

- Backfill and/or shape to the natural slope of the area (erven next to road / road verge / stormwater outlet / berm etc);
- Replace the stockpiled (rescued) topsoil back on top;
- Revegetate and spread the indigenous grass seed mixture (seed should be lightly raked in or covered with topsoil);
- Install erosion protection – silt fences / sandbags / mulch filled sausages

Rehabilitation is not a once off activity as there will be a need for a few follow-up checks after storm events etc., and before the indigenous vegetation / grasses have established to cover and bind the soil.

Phase	Photographic record	Comment and requests
4		Road verges have been reshaped to a suitable slope, however, erosion protection and vegetation (grass seed mix vygies etc) are required
13		Phase 12 – stormwater and sewer infrastructure are installed and must now be rehabilitated.

2. CONCLUSION & RECOMMENDATIONS

The contractors are aware of the environmental regulations mentioned in the EMPr. Currently there are no record of no-compliance regarding civil installations in **phase 12** and **phase 14**. Rehabilitation of **Phase 4** is in progress and must be completed before final handover to HOA. It is recommended that contractors conduct regular toolbox talks with their staff and remind them of the environmental requirements.

ECO monitoring for during **August** 2023

Date:	Comment:
2023.08.03	Landscape committee – open spaces & civil services installation
2023.08.10	Houses construction and civil services installation
2023.08.17	Houses construction and civil services installation
2023.08.24	Houses construction and civil services installation