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ENVIRONMENTAL COMPLIANCE MONITORING REPORT NO.14

FOR

OUTENIKUASBOSCH, FARMS OUTENIKUASBOSCH 149 AND HARTENBOSCH
217, HARTENBOS

CIVIL SERVICES INSTALLATION (PHASE 10)



OUTENIKUASBOSCH
The Wildlife Village

Compiled by:

Hilland Environmental

Reference:

MOS22/455/40

Report Period:

March 2022

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OUTENIKUASBOSCH, FARMS OUTENIKUASBOSCH 149 AND HARTENBOSCH 217, HARTENBOS

**ENVIRONMENTAL MONITORING REPORT NO 14
MARCH 2022**

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Environmental Monitoring Report No. 14

This report monitors compliance against the Environmental Management Plan (Ref.: MOS18/455/01). This monitoring report constitutes the 14th Environmental Monitoring Report and covers inspections done during March 2022 for the **civil services installation of Phase 10**.

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.

Weekly ECO monitoring takes place during civil services construction phase (**phase 10**) and monthly during individual **house** construction.

The **Operational phase has started** with some residence residing permanently within Outeniquasbosch. 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.

1. Environmental Induction

Environmental induction was done with the following house contractors in **March 2022**.

Erf/Plot no.	Date:
Erf 6602	23 March 2022

2. NO-GO Demarcation

No-Go areas were discussed during the environmental inductions.

Demarcating open trenches have been disused and the owner requires the following:

- *Game generally stays away from excavations and therefore the main focus regarding demarcation of excavations relates to person safety. Ongoing monitoring of the game movement and activity is the responsibility of the owner and demarcation must be installed upon instruction from the said owner.*
- *No go Demarcation (green shade netting) for each home building site **must** be in place and maintained.*
- *The temporary construction haul road to phases 3 and 10 (next to **Mafunyane Street**) is demarcated with small piles of stones next to the road.*



2022.03.18 – The demarcation around Erf 6560 in phase 2.

3. Fauna and Flora

The civil and building contractors have to ensure that no harm or damage is done to any fauna or flora during active construction periods. Harm or damage can be mitigated by surveying the area to be excavated or cleared to ensure that no animals or plants are affected.

A plant search and rescue are to be arranged with the ECO if there are any plants within the specific site that require rescue – **no plant search and rescue was required during this reporting period.**

Ongoing eradication of listed invasive alien plants receives ongoing attention.

- *Alien invasive plant species as a result of construction (all phases) activity must be removed. The developer/management team must ensure ongoing alien plant eradication.*
- *Datura stramonium (Stinkblaar) throughout the site is being targeted.*



Team is busy with Stinkblaar eradication.

4. Soil & Site Management

The contractors should note that the topsoil must be kept separate from any other subsoil or construction material to prevent contamination.

- *No issues were noted during the reporting period.*
- *Topsoil is replaced and re-vegetation/seedling of the stormwater outlets **is now required** (refer to rehabilitation section)*
- *Steep slopes next to the new road must be shaped accordingly, raked (horizontally) and seeded with the indigenous grass seed mixture.*
- *Dust mitigation measures (keeping the roads wet) are implemented when dust becomes an issue.*



2022.03.18 – Construction of Erven in Phase 10.



All construction rubble must be removed, and the area must be rehabilitated before completion.



2022.03.18 – Construction of Mafunyane Street is near completion.

5. Heritage Requirements

Should any heritage remains be exposed during excavations or any actions on the site, these must immediately be reported to the Provincial Heritage Resources Authority of the Western Cape, Heritage Western Cape (in accordance with the applicable legislation). Heritage remains uncovered or disturbed during earthworks must not be further disturbed until the necessary approval has been obtained from Heritage Western Cape. Heritage remains include: archaeological remains (including fossil bones and fossil shells); coins; indigenous and/or colonial ceramics; any articles of value or antiquity; marine shell heaps; stone artifacts and bone remains; structures and other built features; rock art and rock engravings; shipwrecks; and graves or unmarked human burials.

A qualified archaeologist must be contracted where necessary (at the expense of the applicant and in consultation with the relevant authority) to remove any human remains in accordance with the requirements of the relevant authority.

- No heritage remains have been discovered to date.

6. Construction Site Camp

Contractors (civil and house construction) must provide ablution facilities for all construction personnel working on the site. One facility for every 15 persons on site is required.

- Toilet facilities are available for the civil contractor's staff and at each home building site.

A fenced-off area must be created within the site camp for refuse and waste management as indicated above. ECO to inspect for compliance.

- Adequate litter bins are to be provided at the site camp; littering should be covered in regular "toolbox" talks with all staff members.

No accommodation of contractors or their staff except for a night watchman is permitted on site.

- No construction related accommodation on site.

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.

- Civil construction - No issues with regards to runoff water was noted.
- Home construction – cement mixing is to be contained within the disturbance footprint and on a non-permeable layer (wooden sheet/plastic etc) to prevent soil contamination.
- **Ready-mix trucks are not allowed to be washed on site.**

Any temporary diesel storage tanks are to be secured with adequate bunding to cater for spillage and leakage

- No fuel is being stored on site to the knowledge of the ECO.

There should be a secure access point to the construction site in order to ensure that no unauthorized entry is permitted which may lead to a safety or security risk.

- Access to Outeniquasbosch Eco Estate is controlled through access-controlled gates/booms.

Any temporary haul roads or access roads for construction need to be maintained at all times by the contractor.

- The contractor is maintaining the current construction haul road. Please be reminded that driving off the designated haul roads or access roads **is not permitted**.
- Construction vehicles must **abide to the speed limit** as this is a wildlife estate with animals roaming freely.
- The temporary haul road is demarcated with painted stones.

7. Rehabilitation at stormwater outlet structures and shaping of road verges

The following rehabilitation recommendation relates to the completed stormwater outlet structures within **phase 10** which were discussed and agreed upon at a previous site meeting – the estate management is busy with rehabilitation:

- Create small soil or stone berms across to slow the flow of the surface water;
- Sow the indigenous grass seed mixture on the side slopes and above the structure areas;
- Mulch filled onion bag (or similar) pegged along the contours, to the side slopes (where steep)
- Estate Management - ongoing maintenance of the stormwater outlets is to be done.

The steep road verges are to be shaped with horizontal grader lines to prevent vertical erosion and then seeded with the indigenous grass seed mixture.

Indigenous grass seed mixture:

Equal parts of: **2g/m²** Kweek grass (*Cynodon dactylon*) seed and **2g/m²** Oulandsgras/Weeping Love Grass (*Eragrostis curvula*) seed (approximately **4g/m²**) that is to be spread over loosely raked soil.



2022.03.23 – Stormwater outlet (phase 10) additional rehabilitation recommended (see Section 7) - **the estate management is continuing with rehabilitation**

The steep road verges are to be shaped with horizontal grader lines to prevent vertical erosion and then seeded with the indigenous grass seed mixture.

8. Conclusion

No environmental damage or issues were noted during ECO site inspections.

The contractors are aware of the environmental requirements and are complying. It is advised that the contractors (civil and home building) do regular toolbox talks with all staff members with special focus on **littering and cigarette** butt disposal. The **building** contractors are also reminded to ensure that the No-Go demarcation and safety netting is maintained to ensure that no animals

get injured. The civil contractor of Phase 10 is near completion and rehabilitation work commenced. Shaping of steep slopes must be done with horizontal and not vertical grader marks.

ECO monitoring for during **March** 2022

Date:	Comment:
4 March 2022	ECO site inspection of the Civil contractor & Site meeting
10 March 2022	ECO site inspection of the Civil contractor & Erf 6621 Garden Layout
18 March 2022	ECO site inspection of the Civil contractor & House construction
23 March 2022	ECO site inspection of the Civil contractor & Environmental Induction for Erf 6602