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ENVIRONMENTAL COMPLIANCE MONITORING

REPORT NO.06 FOR

**OUTENIKUASBOSCH, FARMS OUTENIKUASBOSCH 149 AND HARTENBOSCH
217, HARTENBOS**

HOUSE CONSTRUCTION & CIVIL SERVICES INSTALLATION (PHASE 10)



Compiled by:

HillLand Environmental

Reference:

MOS21/455/16

Report Period:

May – end June 2021

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OUTENIKUASBOSCH, FARMS OUTENIKUASBOSCH 149 AND HARTENBOSCH 217, HARTENBOS

**ENVIRONMENTAL MONITORING REPORT NO 6
MAY – JUNE 2021**

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Submitted to:	Luxolo Kula – DEADP (Cape Town) Dryer van Zyl – Owner / Developer ZEC4 (Pty) Ltd
Copies to:	Deon Brand – Outeniquasbosch

Environmental Monitoring Report No. 06

This report monitors compliance against the Environmental Management Plan (Ref.: MOS18/455/01). This internal monitoring report constitutes the 6th Environmental Monitoring Report for inspection(s) done during May to end June 2021 for individual house construction and civil services installation of Phase 10.

Construction of individual houses within phase 1, 2 and 3 has commenced and is ongoing as new plots are sold and developed. Construction of the services commenced in **phase 10** on 26 February 2021. The civil contractor of phase 3 has done remedial repair works on the tar road – which is now complete.

This ECO report covers compliance monitoring for all works to date in terms of the EMPr and the EA.

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 given to all individual house construction on:

(Only newly listed erven will be listed here, for a full list please contact the ECO)

Erf/Plot no.	Date:
6563 (16)	26 May 2021
6583 (36)	26 May 2021
6597 (50)	26 May 2021
6593 (46)	26 May 2021

- Outeniquasbosch management **should notify the ECO** when a new erf is to start with construction. An Environmental Induction must be done **before** construction commences on each site/erf.

2. NO-GO Demarcation

No-Go demarcation, as approved by the ECO, must be in place. The ECO monitors maintenance and adherence to the demarcation during site inspections.

- Building contractors **must** ensure that the necessary shade cloth netting demarcation is **always** in place and maintained (especially during inactive periods such as after hours and over weekends etc).



2021.06.23 – Erf 6637 - No-Go demarcation indicating the work zone – civil contractor was busy with remedial repairs to water pipelines.



2021.06.23 – Erf 6566 – Contractors need to maintain the No-Go demarcation, especially during inactive periods (weekends & outside working hours).

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 conducting a survey of the area to be excavated or cleared to ensure that no animals or plants are affected.

A plant search and rescue is to be arranged with the ECO if there are any plants within the specific site that require rescue.

Ongoing eradication of listed invasive alien plants must be considered high priority to prevent the spread of any of these species.

- Alien invasive plant species as a result of construction activity, must be removed - the ECO will inform if and when alien plants are noted. The developer/management team must ensure ongoing alien plant eradication.
- The following list of invasive alien plants and / or weeds **were** noted on Outeniquasbosch and should therefore be managed when spotted:
 - o Stinkblaar (*Datura spp.*)
 - o Lantana camara
 - o Spear Thistle (*Cirsium vulgare*)
 - o Port Jackson (*Acacia saligna*)
 - o Castor oil plant (*Ricinus communis*)
- Stinkblaar (*Datura spp.*) next to the road excavations in **phase 10** must be eradicated.



2021.06.23 – Phase 10 – Stinkblaar on the left of the road must be eradicated.

4. Soil Management

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

- *Building contractors are stockpiling the topsoil on the vegetated berm elsewhere on the farm, as approved by the ECO and owner;*
- **Temporary access roads MUST be closed off, ripped and rehabilitated as soon as the internal roads is connected;**
- **The cement and cement contaminated soil left by the sidewalk contractor must be removed and discarded at an authorised disposal facility. Areas must be rehabilitated by placing topsoil back (on top) and seed with an indigenous grass seed mixture.**



2021.06.23 – Temporary access roads across Erf 6556 have been closed off and the area was rehabilitated.



2021.06.23 - The temporary access roads south of erf 6544 **MUST** be closed off and rehabilitated.



2021.06.23 - The cement and cement contaminated soil next to Erf 6544 must be removed and the area rehabilitated.



2021.06.09 – The stockpile area (phase 3) was rehabilitated).



2021.06.09 – All temporary access roads MUST be closed off and rehabilitated.

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. Home and / or Unit Construction

Architectural requirements are to be adhered to at all times during the planning and construction of any infrastructure in Outeniquasbosch. Building plans first has to be approved by the Outeniquasbosch Home Owners Association Architectural Committee before submitting to Mossel Bay Municipality.

Each construction node is to be screened off with a well secured shade cloth fence around the immediate building footprint. This will retain the work area and prevent game from wandering into the construction areas and injuring themselves during the construction period.

- Monthly ECO monitoring and reporting (via email) is being done to ensure that building contractors comply with the EMPr.



7. Phase 10 - Services Construction

Phase 10 Civil Services installation commenced on the 26th of February 2021 and environmental induction was done on 26 March 2021 with all the staff members.

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 relate 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 environmental damage or issues noted during ECO site inspections.



2021.03.24 – Construction of the road in Phase 10 has commenced



2021.06.23 – Trenches are to be demarcated according to Health and Safety requirements.



2021.06.17 – The construction of civils at phase 10 is ongoing and remains within the dedicated work zone.

8. 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 on site during civil services installation.



2021.06.04 – Unit construction sites with portable chemical toilets for staff.



2021.06.23 – Phase 10 contractor providing a portable chemical toilet for the staff.

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

- Adequate litter bins are available at the site camp and throughout the site, littering should be covered in regular "toolbox" talks with all staff members.



2021.06.23 - Individual home builders provide a suitable skip or bins on site (Erf 6631) – skips/bins must be covered to prevent the windblown litter from blowing away in the wind.

No accommodation of contractors or their staff with the exception of a night watchman is permitted on site.

- No 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.

- Concrete mixing areas to be rehabilitated – any contaminated soil must be disposed of at an authorised disposal facility and the affected area must be rehabilitated with topsoil and an indigenous grass seed mixture as directed by the ECO.
- The sidewalk contractor must use a protective sheet (non-permeable layer) and small bunding wall when mixing and working with concrete.



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.

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.
- A temporary access road was created during the construction period of the main entrance road surfacing – this **closed off** (and rehabilitated) since vehicles are now allowed to use the new surfaced entrance road.

9. Health and Safety

Health and safety applies to those working on site as well as those using / passing through the site.

- Health and Safety requirements are being adhered to and are monitored by the Health and Safety consultant.

10. Stormwater Management

Ensure proper management of storm water outlet to minimise erosion and pollution potential.

- Ongoing maintenance of the stormwater outlets are to be done.
- The storm water detention ponds handle the storm conditions well and showed their efficiency.

11. Rehabilitation

The rehabilitation and re-establishment of disturbed areas is critical to the success of this development. These disturbances could be in the form of areas exposed and destabilized during construction.

- Rehabilitation of all civil construction areas within second phase has been done, ECO do regular inspection to monitor progress.



2021.06.23 – Rehabilitation of the open space between Erf 6637 & 6638 – further recommendations were provided to the developer.



2021.06.23 – Rehabilitation of Erf 6556.

12. Conclusion

The building contractors are aware of the environmental requirements and are complying. It is advised that the contractors 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.

ECO monitoring for the period **11 February** to **30 June 2021**

Date:	Comment:
5 May 2021	ECO site inspection (Building contractor)
12 May 2021	ECO site inspection (Civil and building contractor)
19 May 2021	ECO site inspection (Civil and building contractor)
26 May 2021	ECO site inspection (Civil contractor & Induction)
4 June 2021	ECO site inspection (Civil and building contractor)
9 June 2021	ECO site inspection (Civil contractor)
17 June 2021	ECO site inspection (Civil contractor)
23 June 2021	ECO site inspection (Civil and building contractor)
7 July 2021	ECO site inspection (Civil contractor)