



HilLand Environmental

Environmental Assessment Practitioners

166 Mount View, Victoria Heights
P.O. Box 590, GEORGE, 6530
Western Cape, South Africa

Tel: +27(0)44 889 0229
Fax: +27 (0) 86 542 5248
Mobile: + 27 (0) 82 5586 589
E-mail: info@hilland.co.za
www.hilland.co.za

INTERNAL ENVIRONMENTAL COMPLIANCE MONITORING

REPORT NO.04 FOR

OUTENIKUASBOSCH, FARMS OUTENIKUASBOSCH 149 AND HARTENBOSCH
217, HARTENBOS

HOUSE CONSTRUCTION



OUTENIKUASBOSCH

The Wildlife Village

Compiled by:

HilLand Environmental

Reference:

MOS21/455/09

Report Period:

11 January – 10 February 2021

ISSUED BY:

HillLand Environmental

PO Box 590

George, 6530

Tel: 044 889 0229

Fax: 086 542 5248

E-mail: cathy@hilland.co.za / admin@hilland.co.za / environmental@hilland.co.za

Website: www.hilland.co.za

OUTENIKUASBOSCH, FARMS OUTENIKUASBOSCH 149 AND HARTENBOSCH 217, HARTENBOS

**INTERNAL ENVIRONMENTAL MONITORING REPORT NO 4
11 JANUARY – 10 FEBRUARY 2021**

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Submitted to:	Dryer van Zyl – owner / developer ZEC4 (Pty) Ltd
Copies to:	Deon Brand – Outeniquasbosch

Internal Environmental Monitoring Report No. 04

This report monitors compliance against the Environmental Management Plan (Ref.: MOS18/455/01). This internal monitoring report constitutes the 4th Environmental Monitoring Report for inspection(s) done during January and February 2021 for individual house construction.

Construction of individual houses within phase 1, 2 and 3 have commenced and is ongoing as new plots are sold and developed.

This ECO report covers compliance monitoring for all works to date in terms of the EMP 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 while houses are being constructed. The civil contractor (phase 2) has completed the rehabilitation phase and ECO monitoring was done weekly for the duration of this phase.

The **Operational phase has now 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 entrance 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 maintenance 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:
6620 (73)	27 January 2021
6549 (2)	27 January 2021

- Outeniquasbosch notifies the ECO when a new building contractor is to start with construction. An Environmental Induction is done before construction commences on each site/erf.



27 January 2021 – Environmental Induction done with staff members of Erf 6549.



27 January 2021 - Environmental Induction done with staff members of Erf 6620.

2. NO-GO Demarcation

No-Go demarcation, as approved by the ECO, is 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).*



Erf 6549 - No-Go demarcation indicating the work zone.



Erf 6620 – No-Go demarcation being installed.



Open trenches must be demarcated to prevent accidental injury of animals (Erf 6644).



Open trenches must be demarcated to prevent accidental injury of animals (Erf 6557).

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 are to be arranged with the ECO if there are any plants on the site. 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 to 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:
 - o Stinkblaar (*Datura spp.*)
 - o Lantana camara
 - o Spear Thistle (*Cirsium vulgare*)
 - o Port Jackson (*Acacia saligna*)
 - o Castor oil plant (*Ricinus communis*)
- The pumpkin plants must be removed from the open space in front of Erf 6590. Open spaces must be vegetated with naturally (indigenous) occurring vegetation only. "The rehabilitation of the areas between nodes will be done in a manner to recreate the naturally occurring vegetation of the area." – Outeniquasbosch EMP (9.1.3 Open space areas between nodes).



Erf 6534 (138) Port Jackson (*Acacia saligna*) must be eradicated.



Stinkblaar must be removed at the main gate. The area must be rehabilitated with indigenous grass seed mixture sown over a lightly raked area (and watered).



Alien plants growing along the contractor



Spear Thistle must be eradicated

access road must be eradicated (Castor oil plant and Lantana).



Stinkblaar on the side of the road has been removed.



The pumpkin plants in the open space in front of Erf 6590 must be eradicated.

4. Soil Management

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

- Building contractors are stockpiling the topsoil on the vegetated berm
- **Temporary access roads should be closed off, ripped and rehabilitated.**
- Tar on the side of the road should be removed and discarded at an authorised disposal facility.
- **The cement and cement contaminated soil left by sidewalk contractor must be removed and discarded at an authorised disposal facility. Areas must be rehabilitated.**



The temporary access roads MUST be closed off and rehabilitated.



The temporary access roads MUST be closed off and rehabilitated.



Excess tar must be removed (phase 3) and disposed of at an authorised disposal facility.



Cement and cement contaminated soil must be removed and disposed of at an authorised disposal facility.



Sidewalk construction area must be cleared and rehabilitated.



The sidewalk contractor must rehabilitate any disturbed areas as they progress (reshape the areas and seed with indigenous grass seed mixture).



Construction material/soil must be demarcated (Erf 6619) (27.01.2021).



The construction material on Erf 6619 have been removed (10.02.2021).



Temporary access road behind Erf 6558 must be demarcated and rehabilitated.



Temporary access road behind Erf 6558 must be demarcated 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.

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



Individual house construction (Erf 6644)



Individual house construction (Erf 6544)

7. Construction Site Camp

Contractors 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.



Individual home builder provide portable chemical toilets for staff during construction phase (Erf 6631)



Individual home builder provide portable chemical toilets for staff during construction phase (Erf 6620)

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.



Individual home builders proved suitable skip or bins on site (Erf 6644).

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.



Concrete mixing should be done on a protective sheet with a small bunding wall to prevent contamination and possible run-off



Concrete mixing area should be cleaned up and rehabilitated.

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 locked gates.

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 **must** be rehabilitated since vehicles are now allowed to use the new surfaced entrance road.



Temporary access road during the surfacing of the main access road must now be closed off and rehabilitated.

8. 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.

9. Stormwater Management

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

- There are currently no problems with stormwater management.
- The storm water detention ponds handle the storm conditions well and showed their efficiency.

10. 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.



Rehabilitation on surrounding erven after house construction.



Rescued plants are planted on the stormwater deflection berm.

11. Conclusion

There are currently not any civil contractors on site. The building contractors are aware of the environmental requirements and is 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 January** to **10 February 2021**

Date:	Comment:
14 January 2021	ECO site inspection (Civil and building contractor)
21 January 2021	ECO site inspection (Civil and building contractor)
27 January 2021	ECO site inspection (Civil and building contractor) – environmental induction Erf 6620 & Erf 6549
3 February 2021	ECO site inspection (Civil and building contractor)
10 February 2021	ECO site inspection (Civil and building contractor)