



# HillLand 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  
Mobile: +27 (0) 82 558 6589  
E-mail: [admin@hilland.co.za](mailto:admin@hilland.co.za)  
[www.hilland.co.za](http://www.hilland.co.za)

## ENVIRONMENTAL MONITORING REPORT # 53

### KRAAIBOSCH PARK (PORTION 370 AND 371), GEORGE



|                           |                        |
|---------------------------|------------------------|
| <b>Compiled by</b>        | HillLand Environmental |
| <b>HillLand Reference</b> | GEO25/981/99           |
| <b>Report Period</b>      | February 2025          |

HilLand Reference: GEO25/981/99

**ISSUED BY:**

HilLand Environmental

PO Box 590

George, 6530

Tel: 044 889 0229

Fax: 086 542 5248

E-mail: [environmental@hilland.co.za](mailto:environmental@hilland.co.za) & [cathy@hilland.co.za](mailto:cathy@hilland.co.za)Website: [www.hilland.co.za](http://www.hilland.co.za)

**ENVIRONMENTAL MONITORING REPORT No. 53 – KRAAIBOSCH PARK  
(PORTION 370 AND 371), GEORGE  
FOR FEBRUARY 2025**

**Conditions of report use:**

The report is the property of the sponsor and the author, who may publish it, in whole, provided:

1. That written approval is obtained from the author and that **HilLand Environmental** is acknowledged in the publication;
2. That **HilLand Environmental** is indemnified against any claim for damages that may result from publication;
3. The contents of this report may not be used for purposes of sale or publicity or advertisement without the prior written approval of **HilLand Environmental**.
4. That it is understood that **HilLand Environmental** accepts no responsibility for the contractors failure to follow the recommended programme.
5. That it is understood that **HilLand Environmental** accepts no responsibility for the contractors deviation or non-compliance to any specifications or guidelines provided in the report.
6. That it is understood that all figures, plates, and diagrams are copyrighted and may not be reproduced by any means, in any form, in part or whole.

|                      |                              |
|----------------------|------------------------------|
| <b>Submitted to:</b> | Leo-Heyns Nel – Cape Estates |
| <b>Copies to:</b>    | DEADP George                 |

**Report compiled by:** Inge Delport – HilLand Environmental**Report reviewed by:** Stefan Delport – HilLand Environmental

This report monitors the following:

- Compliance with the Operational Environmental Management programme (OEMPr), compiled by Sharples Environmental Services (36/RDP/370&371/7/17) for Phases 1, 2 and 3 (monthly); &
- Compliance with the Construction EMPr for Phases 2 & 3 (monthly during home building construction).

General matters:

- The developer is amending the site development plan of the future development phases (phase 4 onwards) and to implement the stormwater management plan. NEMA BAR and WULA processes are ongoing – awaiting a decision from DEADP and BOCMA.

## 1 Operational Phase Compliance: Phase 1, 2 & 3

| Date of site visit |
|--------------------|
| 21 February 2025   |
| 26 February 2025   |

| Items that require attention                                      |                 |
|-------------------------------------------------------------------|-----------------|
| Item                                                              | Responsibility  |
| Reminder – removal of invasive alien plants in undeveloped areas. | Terrain manager |

### 1.1 Establishment and responsibilities of the Homeowners Association (HOA)

As per the ROD, an HOA must be established which will have the following responsibilities;

- Implementation of energy-efficient measures to reduce energy and water consumption as described in the EMP - ongoing.
- Management of Private Open Spaces within the residential development (as per the EMP) – ongoing.
- Eradication and prevention of further encroachment by alien invasive plant species will require an ongoing management programme – ongoing – the alien plants noted in the development area (future phases) must be managed.

Developer/ HOA to fulfil these responsibilities.

### 1.2 Waste and water management

An integrated waste management approach must be encouraged which is based on waste minimisation and must incorporate **reduction, recycling, re-use, and disposal** where appropriate.

In accordance with the ROD, a collection point must be established, and containers (clearly marked and containers of suitable size) must be placed within this area for the separation

of recycling waste. The owners must be informed that recyclables must be cleaned and dried if stipulated by the recipient service provider. The HOA must encourage waste separation.

*Homeowners are separating waste into black, blue, and green bags in accordance with the Municipal recycling initiative. Please continue to encourage residents to reduce waste and recycle as much as possible.*

Rainwater from roofs must be collected and stored in rainwater tanks. Collected rainwater must receive preference to address the water demand and be utilised within a reasonable timeframe. Rainwater that is stored on erven may be utilised either individually or in a network system – *no issues noted or reported.*

Terrain management to ensure that all operational stormwater outlets are kept clean from silt and litter.

### 1.3 Open space landscaping and private gardens

Landscaping within Open Space areas **must** be done using local topsoil and a variety of **indigenous and / or water-wise Southern Cape plant species** and selected extra-limital species.

Restoration of disturbed areas must be habitat-specific and only indigenous Southern Cape plant species are stipulated for use in supplementary planting.

- *Landscape areas are compliant with these conditions. The open space has been rehabilitated.*

Recommendation - In private gardens, homeowners must be encouraged to plant 80% indigenous Southern Cape plant species whereas the remaining 20% can be non-indigenous. **No listed alien invasive vegetation may be planted.**

The wild canna (*Canna indica*) is a listed invasive species in South Africa and need to be eradicated in accordance with NEMA:BA. Canna lilies have been noted in one of the gardens. Should this be *C. indica*, it needs to be removed immediately.



#### 1.4 Invasive alien plant control

The property must be cleared of all Alien Invasive Plant species. The Open Space areas must be regularly cleared of alien invasive species by implementing the approved methodology.

The pampas grass, black wattles, brambles and bugweed in the wetlands and stormwater channels must be eradicated. Regular follow-up inspections (terrain manager) are required to ensure proper eradication of the invasives. Invasive alien plants in the construction phase to be managed by the building contractor.



Bugweed to be removed



## 1.5 Stormwater outlets and erosion control

Completed stormwater channels are to be monitored for any signs of soil erosion. If any erosion occurs it must be fixed straight away and suitable erosion protection must then be installed and maintained – *the silt fences sandbags paced across channels must be monitored and maintained (remove silt and litter/ debris by hand) –*



Sandbags within stormwater channels to be maintained



Sandbags placed in erosion prone areas

| Phase 1-3 – Operational Phase Conditions                                                                                                                                                 |                      |                |                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Item                                                                                                                                                                                     | Compliant            | Non-compliance | Comments                                                                                                                                                                                                                                                                                       |
| An HOA must be established and must comply with the responsibilities as set out within the ROD.                                                                                          | <b>Yes</b>           |                | HOA to comply with the responsibilities of the ROD and EMPr.                                                                                                                                                                                                                                   |
| An integrated waste management approach must be implemented.                                                                                                                             | <b>Yes</b>           |                | Comply and HOA to continue to implement and manage.                                                                                                                                                                                                                                            |
| Landscaping of internal open space areas must be done using local topsoil and a variety of indigenous and/ or water-wise Southern Cape plant species and selected extra-limital species. | <b>Yes – ongoing</b> |                | Comply, indigenous vegetation/ trees are planted in the open space.<br>Gardens – planting of listed alien invasive species is prohibited                                                                                                                                                       |
| Rainwater from roofs must be collected and stored in rainwater tanks. Water-saving measures/ techniques must be implemented within the houses.                                           | <b>Yes</b>           |                | Comply, rainwater harvesting tanks used at each house.                                                                                                                                                                                                                                         |
| The property must be cleared of Alien Invasive Plant species and open space must be repeatedly cleared of alien invasive plant species and a follow-up programme is to be implemented.   | <b>Yes – ongoing</b> |                | As per section 1.4 above – future development area to be targeted for alien clearing.                                                                                                                                                                                                          |
| Adequate erosion control measures must be implemented as required.                                                                                                                       | <b>Yes - ongoing</b> |                | Ongoing monitoring of the stormwater outlets that have been handed over to the HOA. Ensure that the sandbags or silt fences are in place and functioning. Silt fences to be upright and silt buildup to be removed. Sandbags to be across the flow path to slow runoff water and capture silt. |

## 2 Phase 2 & 3 – Construction Compliance (home building)

| Date of site visit |
|--------------------|
| 21 February 2025   |
| 26 February 2025   |

| Items that require attention                                                                                   |                |
|----------------------------------------------------------------------------------------------------------------|----------------|
| Item                                                                                                           | Responsibility |
| <b>Ongoing Reminder</b> – Construction zone must be demarcated and silt fence to be installed and maintained.  | Contractor     |
| Regular inspections of the stormwater inlets and outlets for silt and litter buildup and clean when necessary. | Contractor     |

### 2.1 Environmental Induction

Environmental induction (education) has been done with the house building contractor and his staff. **The contractor must notify the ECO when there are new staff on site.**

### 2.2 Site camp and site management

House contractor's construction site camp must remain outside NO-GO/ sensitive areas. This will prevent encroachment into internal green/ open space which is not allowed – *Current site camp and office are within a future development zone.*

The construction sites (houses under construction) are to be demarcated to prevent unauthorised entry after working hours and December holiday period. The demarcation netting must remain in place for the duration of the construction period – *not all sites have demarcation, but **no** encroachment into the internal open space is noted.*

*Stormwater outlets are maintained. Stormwater inlets to be protected from silt by placing sandbags to capture silt before entering the inlet structure. These "silt traps" must be cleaned regularly.*





Stormwater inlets to be protected (sandbags etc.)



Site camp on a future erven.

## 2.3 Soil Management

Topsoil is to be stored for later use during rehabilitation. Subsoil must be stored separately from topsoil to prevent contamination. Regular stockpile inspections for invasive alien plants ("Stinkblaar" (*Datura* spp.)) and removal if recorded (ongoing reminder).

- *No issues noted or reported.*
- *Undeveloped stands are to be left vegetated, which will help prevent soil erosion and dust pollution.*

Building rubble not to be dumped/ stored on topsoil of new erven, rather use the already disturbed centrally located stockpile site.



Topsoil stockpile



Dump material within disturbed area

## 2.4 Dust monitoring during construction activity

- No dust complaints or issues reported to the ECO during this reporting period.

## 2.5 Concrete and Cement management

Non-permeable layers (wooden sheet etc.) must be used if mixing is done on the ground (not on topsoil) – runoff water must be managed by means of a bunding wall to prevent it from entering the stormwater network.



Contaminated soil must be removed and disposed of at an authorised disposal facility. Topsoil must be replaced and seeded with indigenous grass seed mixture – *no issues reported during this reporting period.*

## 2.6 Waste management

Home building contractors are reminded that ablution facilities and skips and/ or bins must always be available on site to prevent littering/ pollution – *No specific environmental issues noted during this environmental monitoring period.*

The construction rubble is in the future development area – *skips and rubble must be regularly removed/ emptied - these stockpiles are removed regularly.*

*Regular litter picking must be done at each site and at the site camp to ensure that all wind-blown litter is kept inside a bin.*



| Phase 2 – Building Construction Phase Conditions                                                                 |                     |                   |                   |                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------|---------------------|-------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General                                                                                                          |                     |                   |                   |                                                                                                                                                                                                  |
| Item                                                                                                             | Yes/Full Compliance | No/non-compliance | Not yet Necessary | Comments                                                                                                                                                                                         |
| Have the correct procedures been followed when any historical artefacts have been uncovered during construction? |                     |                   | N/A               | Not necessary.                                                                                                                                                                                   |
| Have all new staff on-site (including drivers) been given induction on Environmental awareness by the ECO?       | Yes                 |                   |                   | Environmental induction has been done with the house building contractor. Building contractor to notify ECO of when new staff start on site, or a refresher environmental induction is required. |
| Site Management                                                                                                  |                     |                   |                   |                                                                                                                                                                                                  |
| Item                                                                                                             | Yes/Full Compliance | No/non-compliance | Not yet necessary | Comments                                                                                                                                                                                         |
| Have NO-GO areas been clearly demarcated?                                                                        | Yes                 |                   |                   | Internal green/open space is the no-go area                                                                                                                                                      |
| Are noise levels being kept to a minimum?                                                                        | Yes                 |                   |                   | No noise issues reported to the ECO during this reporting period.                                                                                                                                |
| If necessary, is dust control being implemented?                                                                 |                     |                   | N/A               | No dust control required at the moment.                                                                                                                                                          |
| Are sufficient toilets facilities provided, used, and maintained?                                                | Yes                 |                   |                   | Building contractor should ensure that the toilets are regularly maintained / cleaned.                                                                                                           |
| No open fires are allowed in the construction site                                                               | Yes                 |                   |                   | Compliant – none noted                                                                                                                                                                           |
| Vehicles and Machinery                                                                                           |                     |                   |                   |                                                                                                                                                                                                  |
| Item                                                                                                             | Yes/Full Compliance | No/non-compliance | Not yet necessary | Comments                                                                                                                                                                                         |
| Are vehicles keeping to designated routes and driving responsibly on the adjoining road network?                 | Yes                 |                   |                   | Designated routes are being used.                                                                                                                                                                |
| Are vehicles and equipment stored in approved demarcated area only?                                              | Yes                 |                   |                   | Within the development area.                                                                                                                                                                     |
| Vehicles and equipment are well maintained and keep to speed limits.                                             | Yes                 |                   |                   | Please ensure that drivers are reminded of this during toolbox talks – no issues.                                                                                                                |
| Are drip trays used when necessary?                                                                              | Yes                 |                   |                   | Drip tray to be used at the fuel bowser. No refuelling took place during ECO inspections.                                                                                                        |

| Repairs / re-fueling of vehicle/ machinery must not take place in the riparian zone, maintenance within these areas may only be done in emergencies (ECO to be notified). |                     |                   | N/A               | None noted during ECO inspections.                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Soil and Water Management                                                                                                                                                 |                     |                   |                   |                                                                                                                                                                                                                                                  |
| Item                                                                                                                                                                      | Yes/Full Compliance | No/non-compliance | Not yet necessary | Comments                                                                                                                                                                                                                                         |
| Has erosion control been implemented as required?                                                                                                                         | Yes                 |                   |                   | No specific erosion issues noted in the housing <u>construction zone</u> during this reporting period.                                                                                                                                           |
| Soil stores are protected from contamination and erosion.                                                                                                                 | Yes                 |                   |                   | No erosion noted on the stockpile(s)                                                                                                                                                                                                             |
| Excavated soil is returned to trenches in the correct order.                                                                                                              | Yes                 |                   |                   | Ongoing                                                                                                                                                                                                                                          |
| Cement batching must take place on an impermeable surface on transformed land.                                                                                            | Yes                 |                   |                   | Contractor - batching areas to be bunded – no issues noted during this reporting period.                                                                                                                                                         |
| Cement bags must be stored appropriately and protected against rain. Used cement bags must be disposed of correctly.                                                      | Yes                 |                   |                   | No issues noted or reported to the ECO during this reporting period. Waste skips and rubble stockpiles to be removed before the December break to prevent littering.                                                                             |
| Is contaminated water being disposed of appropriately?                                                                                                                    |                     |                   | N/A               | None noted during this reporting period. It is important to prevent any contaminated water (silt etc) from entering the stormwater network – use sandbags to build a berm around the stormwater inlet when contaminated water flow is noted.     |
| Topsoil is to be saved and stored separately to subsoil and other materials. Topsoil should not be compacted.                                                             | Yes                 |                   |                   | Compliant and re-used during landscaping.                                                                                                                                                                                                        |
| Are adequate storm water control measures in place?                                                                                                                       | Yes                 |                   |                   | Ongoing monitoring to be done with regards to potential soil erosion throughout the construction phase.<br>Stormwater structures – inlet – to be protected with sandbags or suitable alternative to prevent silt entering the stormwater system. |
| Stockpiles of earth material may not be located within the watercourses or any stormwater drainage pathways and must be outside of each of potential floodwaters.         | Yes                 |                   |                   | Appropriate storage of materials                                                                                                                                                                                                                 |



| Fauna and Flora                                                                                           |                     |                   |                   |                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------|---------------------|-------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Item                                                                                                      | Yes/Full Compliance | No/non-compliance | Not yet necessary | Comments                                                                                                                                                                                                |
| Is minimal disturbance of indigenous vegetation occurring?                                                | Yes                 |                   |                   | Minimal disturbance – within development footprint.                                                                                                                                                     |
| Is animal search and rescue conducted prior to construction and during construction?                      |                     |                   | **                | The contractor should ensure that no animals are harmed especially when they are clearing an erf for development.                                                                                       |
| Are all alien plants being managed appropriately?                                                         | Yes                 | No                |                   | <b>Ongoing reminder</b> – Stockpiles must be kept free from listed invasive alien plants.<br>– Stinkblaar ( <i>Datura spp.</i> ) and Black wattle sapling in the construction phase must be eradicated. |
| Waste Management                                                                                          |                     |                   |                   |                                                                                                                                                                                                         |
| Item                                                                                                      | Yes/Full Compliance | No/non-compliance | Not yet necessary | Comments                                                                                                                                                                                                |
| Is waste kept in appropriate bins and emptied regularly to an approved, licensed facility?                | Yes                 |                   |                   | There are skips throughout the construction site.                                                                                                                                                       |
| Health and Safety                                                                                         |                     |                   |                   |                                                                                                                                                                                                         |
| Item                                                                                                      | Yes/Full Compliance | No/non-compliance | Not yet necessary | Comments                                                                                                                                                                                                |
| Are any spillages of chemicals or fluids cleaned up immediately?                                          |                     |                   | **                | H&S officer to monitor                                                                                                                                                                                  |
| Rehabilitation                                                                                            |                     |                   |                   |                                                                                                                                                                                                         |
| Item                                                                                                      | Yes/Full Compliance | No/non-compliance | Not yet necessary | Comments                                                                                                                                                                                                |
| Any compacted soil ripped/loosened on completion of activities.                                           | Yes                 |                   |                   | Compacted soil is ripped before topsoil is replaced.                                                                                                                                                    |
| Are rehabilitation measures including erosion repair and revegetation carried out to satisfaction of ECO? | Yes                 |                   |                   | Rehabilitation and shaping of each erf are done as soon as construction of the house is complete.                                                                                                       |