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ENVIRONMENTAL MONITORING REPORT

FOR THE

HARTENBOS LANDGOED PHASE 2 DEVELOPMENT ON A PORTION OF THE REMAINDER OF THE FARM VAALEVALLEY 219, MOSSEL BAY

PREPARED FOR: Hartenbos Landgoed Phase 2 (Pty) Ltd

DATE: 6th August 2019

REPORT NR: EMR/HBLG/MSB/01/19
DEADP REF NR EG12/2/1 – AM18 – Farm Valle Valley 219/10 (5382)

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PROJECT DETAILS

TITLE:

Hartenbos Landgoed Phase 2 Development
on a Portion of the Remainder of the Farm
VaaleValley 219, Mossel Bay

LOCATION:

Mossel Bay, Western Cape

ENVIRONMENTAL CONSULTANCY:

Sharples Environmental Services cc.

PRIMARY ECO & REVIEWER:

Mr. M. Bennett.

EXPERTISE:

Michael studied at the University of Cape Town completing a Bachelor of Science degree majoring in Environmental and Geographic Sciences and Ocean and Atmospheric Science. Michael joined SES in 2014.

SECONDARY ECO & AUTHOR:

Mr. T. Fortuin.

EXPERTISE:

Tiaan studied at the North West University completing a Bachelor of Science degree majoring in Environmental and Biological Sciences. Tiaan joined SES in 2018.

CLIENT:

Hartenbos Landgoed Phase 2 (Pty) Ltd

REPORT CLASSIFICATION:

Environmental Monitoring Report

SES REFERENCE NUMBER:

EMR/HBLG/MSB/01/19

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Section	
1	Introduction

Sharples Environmental Services cc (SES) has been appointed by *Hartenbos Landgoed Phase 2 (Pty) Ltd (client)*, as the Environmental Control Officer (ECO) to monitor the construction activities on site for the development on a portion of the remainder of the Farm VaaleValley 219, Mossel Bay.

SES has been appointed to undertake weekly monitoring visits for the duration of the contract period, to ensure that environmental degradation is kept to a minimum. This monitoring report has been compiled to indicate compliance with the Environmental Management Plan (EMP) prepared by SES, dated March 2008. The monitoring site inspections for this report were undertaken on the 22nd and 30th of July 2019.

Section	
2	Locality and Description of Activity

The proposed development is located between the towns of Hartenbos in the southwest and Klein Brak River in the Northeast and between the railway line which runs along the coastline in the southeast and the N2 National Road in the north-west. Please refer to Figure 1 for the location of the site.

The proposed development consists of the following:

- 1265 residential erven (zoned Residential I)
- Five townhouse erven (zoned Residential III that includes 150 social housing units, a multipurpose community centre and a 300m² split zoned Business II site located on Portion 1302)
- An open space network and recreation area (zoned open space II) and a 3500m² split zoned business II site (located on portion 1306),
- A road network and associated infrastructure

Access will be from the Main Road 344 through the culvert under the N2 national road, which will be upgraded to four lanes. A second access will be provided to the south along the existing dirt track to Hartenbos Landgoed Phase 1. This road will be upgraded to two lanes and will have a paved surface. Water will be provided from the new 15Ml reservoir that will supply both the proposed Hartenbos Landgoed and possible future developments in the area. A 5Ml reservoir and booster pump station is proposed for construction on Erf 1313. Sewerage removal will be accommodated by means of a gravity sewer network in combination with sewage pump stations. From pump station PS01 on Erf 1308 next to the N2 national road, the sewage will be pumped to a point near Erf 1 from where it will gravitate and siphon to the Hartenbos Regional Sewage Treatment Works.

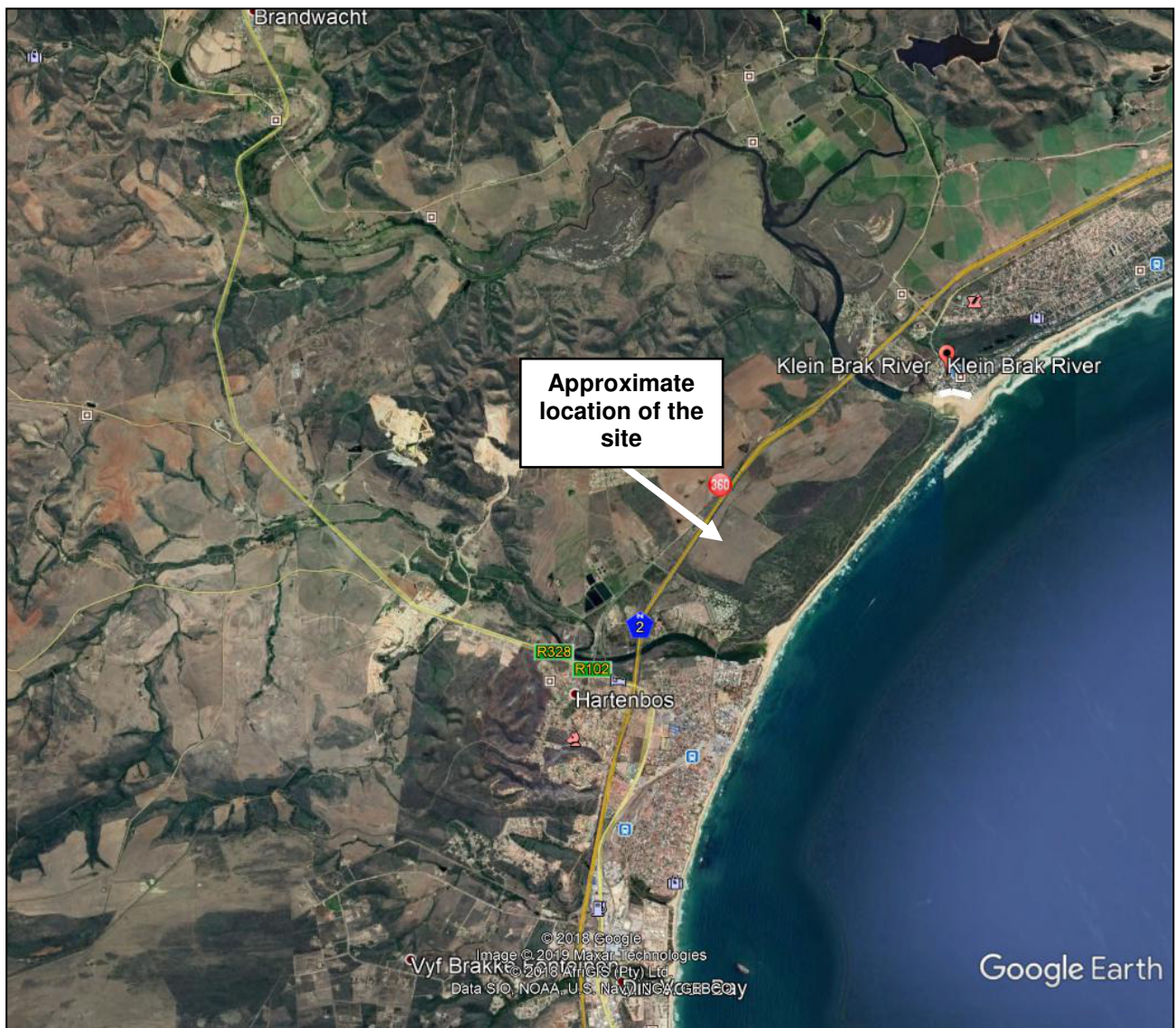


Figure 1: Approximate location of the development site

Images 1 to 6 show the progress of construction activities to date (30 July 2019).

- Land clearing activities were undertaken on site
- An internal road network is being established within the development site (Images 1 and 2)
- Blue water pipes have been installed within the excavated trenches as seen from Image 3
- Stormwater inlets and sewerage cesspits have been installed on site, as seen from Images 4 and 5
- In addition, lamp posts were also installed on site, as seen from Image 6.
- Excavated material is being stockpiled in the South Eastern edge of the development area.



Images 1 & 2: Road network and installed kerbing within the development site



Image 3: Arrows indicating installed water pipes within the excavated trenches



Image 4: Installed stormwater inlet within the development site



Image 5: Installed sewerage cesspit within the development site



Image 6: Installation of new lamp posts within the development site

Section	
4	Demarcation of Sensitive Areas

Demarcation must be put in place using 1.2m high fence of shade cloth netting. In addition, “No-go” signs should be put in place to ensure that these areas are not disturbed by the construction team. Please refer to Figure 2 for the “No-go” areas.



Figure 2: Google earth Image showing “No-go” areas and development site

No permits have been obtained from Heritage Western Cape as stipulated in the Impact Assessment Report conducted by MAPCRM cc. Refer to Figure 3 for the archaeological of the Heritage Report compiled for the assessment of this development which have been overlain on a Google Earth Image of the site in addition to the most recent Site Development Plan.



Figure 3: Site map indicating areas of heritage interest

Section 4	COMPLIANCE WITH EA and EMPr		
	Complied	Comments/Observations	Action to be taken
<u>SITE CAMP</u>	Yes/Part/No		
Toilets	Yes	One chemical toilet was noted secured to the ground.	No action required.
Integrated Waste Management system	No	No bins were noted for waste and recycling.	An integrated waste management approach must be used that is based on waste minimization and must incorporate reduction, recycling, re-use and disposal where appropriate.
Demarcation and No-Go Areas	No	No demarcation present.	The site camp must be fenced off along its perimeter to prevent non – construction staff from wandering around the site camp. In addition, appropriate signage must be put in place within the site camp area.
Housekeeping	No	Removed branches were noted near the site camp area.	The removed branches must be disposed of at an appropriate registered facility (Image 9).
Topsoil and Subsoil Management	No	No topsoil was stripped for the establishment of the site camp and associated facilities.	The site camp area must be stripped of all topsoil before any of the contractor's infrastructure or machinery is stored within the site camp. In this regard, the site camp area should be scarified after civil works are completed.
<u>SITE</u>			
Site access and haulage routes	Yes	Access to the site is gained from the MR344 through the culvert under the N2 national road and the existing road network.	The contractor is to ensure that the operators stick to the haulage routes.
Demarcation and No-Go Areas	No	"No-go" areas have been trespassed by the construction team, in addition, no "No-go" signs were in place on site. The site is fenced off along its perimeter, however the section along the southern boundary require some attention ("No-go" side).	"No-go" signs and demarcation must be put in place to protect the sensitive vegetation and to ensure that the construction team is kept away from these areas.
Toilets	No	No chemical toilets were noted on site.	The contractor is to ensure that chemical toilets are provided on site for the labourers to utilise.
Housekeeping	Yes	The housekeeping on site was in an acceptable condition, no litter and waste were noted scattered around the site.	The housekeeping must be maintained for the duration of the project.
Integrated Waste Management System	No	No bins for waste and recycling were noted on site.	An integrated waste management approach must be adopted on site.

Section 4	COMPLIANCE WITH EA and EMPr		
	Complied	Comments/Observations	Action to be taken
Topsoil and subsoil management Stockpiles and lay-down areas	No	Construction material (tar drums etc) were stored within an area which is supposed to be the site camp but not in a bunded area.	The contractor is to ensure that the construction material is stored as per the EMP and stored within the development site camp in a bunded area.
<u>GENERAL</u> Environmental Awareness Training	Yes	Environmental Awareness Training was undertaken on the 30 July 2019 with 12 labourers in attendance.	Additional environmental awareness training will be undertaken as required on site.
Erosion Control and Stormwater Management	Yes	No erosion was noted but there are no mitigation measures on site at this stage.	Mitigation measures must be put in place as per the EMP.
Sensitive areas	No	"No-go" areas were disturbed by the construction team.	The contractor is to ensure that the "No-go" areas are demarcated and appropriate signage are put in place on site to prevent the construction team from entering these areas.



Image 8: The branches must be removed from site and disposed of at an appropriate registered facility



Images 9 & 10: The stockpiles must be removed sensitively from the “No-go” areas and placed within the development site or a location upon consultation with the Environmental Control Officer

Section	
7	Conclusion

SES has compiled this Environmental Monitoring Report to detail compliance with the EMPr for site visits conducted on the 22nd and 30th of July 2019. The development commenced without undergoing the necessary administrative notifications or approvals and SES has provided Western Cape Minister of Local Government Environmental Affairs and Development Planning with a breakdown of the Non-Compliances with the EA for the development on 30th July 2019.

This Monitoring Report highlights the various points to monitor in accordance with the EMPr and as indicated in Section 6, an integrated waste management approach must be adopted on site. Demarcation and No-Go signs must be erected along the boundary of the No-Go areas.

The Applicant, contractor and engineer must ensure compliance with both the EA and EMPr and are encouraged to engage with the ECO if anything in either document is unclear to ensure that all non-compliances are addressed immediately and accordingly.

