



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
Mobile: +27 (0) 82 558 6589
E-mail: admin@hilland.co.za
www.hilland.co.za

THE CONSTRUCTION OF GRAVITY FEED PIPELINES ON THE FARM VAALE VALLEY 219, MOSSEL BAY

ENVIRONMENTAL MONITORING REPORT



HilLand Environmental
Vaale Valley Pipeline
21.11.2024 14:56
-34.09075, 22.11286
Mossel Bay Local Municipality

Compiled by:
HilLand Environmental
Reference:
MOS24/472/43
Report Period:
October & November 2024

ISSUED BY:

Hilland Environmental

PO Box 590

George, 6530

Tel: 044 889 0229

Fax: 086 542 5248

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

**THE CONSTRUCTION OF GRAVITY FEED PIPELINES ON THE FARM VAALE VALLEY 219,
MOSSEL BAY**

ENVIRONMENTAL MONITORING REPORT FOR OCTOBER & NOVEMBER 2024

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. **Hilland Environmental** accepts no responsibility for failure to follow the recommended programme.
5. **Hilland Environmental** accepts no responsibility for deviation or non-compliance of any specifications or guidelines provided in the report.
6. All figures, plates and diagrams are copyrighted and may not be reproduced by any means, in any form, in part or whole.

<u>Report Submitted to</u>	H Aartsma – Bigen Africa Services HP Lategan – Urhwebo E-Transand
<u>Copies to</u>	E Louw - Mossel Bay Municipality R Minnie – Mossel Bay Municipality DEADP George

Report compiled by: Jennifer Teifel & Stefan Delport**Report reviewed by:** Stefan Delport

Environmental Monitoring Report – October & November 2024

This report monitors compliance against the Environmental Management Plan (Ref: MOS23/472/02 – dated 20 July 2023) and it constitutes the seventh Environmental Monitoring Report for the project (TDR14/2023/2024) which covers all work undertaken as part of the construction of the new gravity feed pipeline(s) on the Farm Vaale Valley No. 219, Mossel Bay Municipality.

ECO site visit dates for October & November:

Date:	Comment:
03 October 2024	ECO site inspection
09 October 2024	ECO site inspection
16 October 2024	ECO site inspection
23 October 2024	ECO site inspection
07 November 2024	ECO site inspection – pipeline rehabilitation inspection
21 November 2024	ECO site inspection – pipeline rehabilitation inspection

The following table represents the construction phase monitoring checklist in terms of the Environmental Management Programme (EMPr)

Section		Yes	No	Not yet necessary	Comments and Photos (if applicable)
6.1	Pre-Construction phase				
6.1.1	All construction staff <u>must</u> be briefed by the ECO in an environmental education programme regarding the environmental status and requirements of the site, <u>prior</u> to any activities commencing on site.	Yes			Induction done with all staff in April 2024. No new environmental inductions were required.
6.1.2	Before the contractor(s) begins each activity - involving construction, maintenance or rehabilitation - they must provide the ECO with the method statement.	Yes			Method statement received and approved by the ECO (4 April 2024). No new method statements required.
6.1.3	Topsoil must be stripped from all construction areas <u>before work commences in that specific area</u> and stockpiled at an area approved by the ECO.	Yes			Topsoil is stripped and placed to the side of the trench/excavation.  HillLand Environmental Veale Valler 09.10.2024 13:52 34°55'57.98"S 22°7'2.17"E R102
	Surplus subsoil that needs to be stockpiled for cut and fill operations must be stockpiled in an approved area.			N/A	There was no surplus subsoil, the subsoil was placed next to the trench, and all was replaced as the pipe sections were installed. Rescued topsoil was replaced (back on top).

	No pollutants (e.g. Bedding sand, cement etc.) to be dumped on site.	Yes			No pollution noted during site inspections.
	Silt fencing needs to be installed before construction works commence (in the areas with a steep slope, or as instructed by the ECO) to ensure that there is limited movement of silt on site.			N/A	Currently not required. ECO and Engineer to advise when silt fencing is required.
6.1.4	Before construction starts , a professional palaeontologist must be commissioned to record and judiciously sample petrified wood and any other significant fossil material exposed during the construction phase of the project, while bedrock excavations for the reservoir are still unsealed.	DONE			This activity was completed in January 2021 Dr John Almond was commissioned to conduct the site inspection of the reservoir site and pipeline route in January 2021. <i>"This is to confirm that we did not observe any fossil material within the reservoir and pipeline footprint, that there are no palaeontological heritage objections to further construction, and no further specialist palaeontological mitigation is considered to be necessary, pending the discovery of any change fossil finds."</i> – Dr J Almond – no further inspections are deemed necessary.
6.2	General Construction Requirements				
6.2.1	The construction area must be demarcated, any encroachment into agricultural or sensitive vegetation areas is prohibited.	Yes			The construction area and the No-Go (sensitive vegetation) areas are demarcated. The work adjacent the No-go vegetation is complete – no environmental issues/concerns to report.  Hilland Environmental Vaale Valley 16.10.2024 15:39 34 09146 22 10589 Valk Street, Hartenbos, Mossel Bay NE

	All topsoil must be stripped from the area required and stockpiled in the site camp for later use in rehabilitation.	Yes			Topsoil has been stripped and stockpiled along the side of the trench and replaced (back on top). No environmental issues/concerns noted.  HillLand Environmental Yaaile Valley 03.10.2024 12:31 34°5'39.09"S 22°7'19.29"E R102
	It must be noted that the topsoil must not be contaminated with any other material e.g. sub soils etc.	Yes			Compliant – No contamination or mixing directly on topsoil noted.
	All excess soils that won't be used must be disposed of at a licensed landfill site.			N/A	Not applicable at this stage.
	Appropriate silt fences or traps must be installed to ensure that all construction runoff (and contaminated) water and material is confined to the construction area.			N/A	Currently not required. ECO and Engineer to advise when silt fencing is required.
6.2.2	Plant search and rescue of indigenous plants within the footprint of the pipeline must be done before site clearing.	Yes			No indigenous vegetation recorded during the initial pipeline route walk through (4 April 2024). Topsoil rescue is therefore important and has been done.

					 HillLand Environmental Vaalre Vallei 23.10.2024 12:34 34°54'14.1"S 22°7'18.17"E RT02
6.2.3	<u>Access to the Site</u> No unauthorized access to the site permitted – gate to be kept closed at all times.	Yes			Topsoil replaced (back on top) Farm gate is kept locked and closed. All visitors are required to sign in at the site office.

	Construction vehicles to use existing access routes or if not available can only use one route per site to minimize the potential environmental impact. These access routes must be confirmed prior to construction with the appointed ECO.	Yes			Construction vehicles are using the existing farm tracks. No environmental issues/concerns to note.  HillLand Environmental Vaale Vallei 16.10.2024 15:30 -34.09154, 22.1192 Mossel Bay Local Municipality
	The access roads will be upgraded and repaired but not widened. The roads will either be surfaced with gravel, or a two-spoor concrete track will be made.	Yes			The access tracks have been repaired (two-spoor dirt track) but not widened.
6.2.4	<u>Site agent</u> The contractor must appoint a responsible agent to ensure that they comply with this EMPr and all its conditions.	Yes			Willem van de Heever to perform the tasks of the site agent - daily monitoring of the site.
6.2.5	<u>Use of local labour</u> It is strongly recommended that local labour is used for the construction phase of this project. "Local" implies people within the Mossel Bay area.	Yes			Local contractor is appointed.
6.2.6	<u>Demarcation of No-Go areas</u> Due to the nature of the proposed development along an existing road, a No-Go zone must be demarcated	Yes			The no-go area (natural vegetation) next to the side of the existing farm track (north) is demarcated with wooden droppers. No encroachment is noted.

	on the side of the road and on the proposed site for the pipeline. These No – Go areas need to be clearly marked.				The R102 road reserve is also a no-go area. No environmental issues/concerns noted.  HillLand Environmental Vaale Valley 23.10.2024 12:31 34°5'57.6"S 22°7'2.54"E R102
	Construction work will only be allowed within the demarcated work area, this include all construction material and equipment to be kept inside this area.	Yes			Compliant, all work is kept within the working zone (shown by the yellow stippled line).  Image © 2024 Airbus Imagery Date: 5/8/2024 34°05'31.83" S 22°06'51.14" E elev 1346m eye alt 1 Google Earth 24/7 Computers (Google Earth Image 08/05/2024)

	Storage sites for construction material and access must be approved by the ECO prior to commencing (and areas will require rehabilitation after use).	Yes			Construction material is stored in the site camp. All excess construction material has been removed. 
	Methods of demarcation will be agreed with the ECO and can include danger tape, rope, fencing, shade cloth, wire fencing etc.	Yes			Wire fencing and wooden droppers were used as demarcation.
	Access into the No-Go areas by personnel is strictly forbidden (i.e. Work breaks such as lunch are not permitted outside the defined work area - no entry into the neighbouring properties or open space areas).	Yes			No issues/concerns noted during site inspections, the contractor remained compliant.
6.2.7	<u>Construction site camp</u> The contractors' site camp is to be set up in the area indicated and approved by the ECO for this purpose.	Yes			As per the approved method statement.

	The contractors' site camp, offices and storage facilities shall not be located within or adjacent to an environmentally sensitive area.	Yes			As per the approved method statement, next to the existing farm shed/store. Site camp has been de-established, and the area left to the satisfaction of the ECO. 
	The camp is to be cordoned off and no encroachment beyond the approved site will be permissible.	Yes			Although the site camp is not physically cordoned off, it is located within the farm shed/store yard which is already cordoned off. As per the approved method statement – no environmental issues to report.
	Adequate signage must be erected at the main entrance to the construction site to ensure that safety regulations are adhered to.	Yes			Sufficient signage is at the entrance gate to the site.

					 HillLand Environmental Vaalie Vallei 23.10.2024 12:33 34°5'41,66"S 22°7'18,21"E R102
	No temporary diesel storage tanks are allowed to be brought to the site.	Yes			None noted.
6.2.8	<u>Storage of construction material</u> All stockpile sites to be approved by the ECO prior to the commencement of stockpiling.	Yes			As per the approved method statement, stockpiling within the site camp. All excess construction material has been removed.
6.2.9	<u>Fire protection</u> There is a medium risk of wildfires occurring on the site. However, the contractor must take all responsibility and active steps to avoid increasing the risk. No open fires or naked flames for heating or cooking shall be allowed on site. The contractor must ensure that all personnel are aware of the fire risk and the need to extinguish cigarettes before disposal. Cigarettes shall not be disposed of in the veld and must be disposed of properly in receptacles.	Yes			Compliant – no open flames or fires noted on site.
	No burning of waste on ANY PART of the site is permitted.	Yes			Compliant – no burning of any waste has occurred on site.

6.2.11	Waste management Recycling must be encouraged on-site and recycling bins must be provided and clearly marked.			N/A	No recycling noted, although the activity (excavation and installation of the water pipe) does not generally generate waste.
	Disposal of all waste materials must be done at suitable facilities. No dumping of any waste material on or off-site is permitted.	Yes			No dumping noted during this reporting period.
	The contractor shall ensure that the site is maintained in a neat and tidy condition and kept free of litter (including the adjacent open space area) . At all places of work, the contractor shall provide litter bins, containers and refuse collection facilities for later disposal. Litter to be removed from the site on a daily basis. Rubbish bins must be provided on-site and regularly cleaned / emptied.	Yes			Bins are provided in the site camp and near the working areas. 
	Solid waste is to be temporarily stored on-site in a designated area . Solid waste must be removed on a weekly basis to a licensed municipal waste site.			N/A	The activity (excavation and installation of the water pipe) does not generally generate waste.
6.2.12	Ablution Facilities Contractors must provide chemical ablution facilities for all construction personnel working on the site. The number of chemical toilets required must adhere to the H&S requirements applicable at the time of the contract.	Yes			Compliant - there are sufficient toilets on site.

					 Hill and Environmental Vaale Valley 09.10.2024 13:49 34°5'38.85"S 22°7'19.58"E R102	
	Toilets shall be of a neat construction and shall be provided with doors and locks and shall be secured to prevent them from blowing over.	Yes			Compliant	
	The contractor shall ensure that the toilet(s) are emptied regularly and also before weekends and public holiday periods.	Yes			Compliant	
6.2.13	<u>Concrete and Cement Works</u> The contractors will use ready-mix concrete for the reservoir but when any other concrete work take place on site then it must be mixed on trays and not directly on the soil. No concrete or cement contaminated water is allowed to be disposed of anywhere along the construction route or in the adjacent sensitive vegetation area (to the north).	Yes			No environmental issues/concerns noted.	
	Any concrete batching plant areas are to be approved by the ECO prior to utilisation and must be equipped with suitable settling ponds and trapping mechanisms to ensure that	Yes			No environmental issues/concerns noted.	

	contaminated water does not leave the restricted area (Bunding through the use of sandbag walls around any mixing areas is recommended).				
	No ready-mix trucks are permitted to rinse their tanks on site or along the access roads to and from the site. Any spillage is to be immediately cleaned by the responsible contractor / supplier / owner.	Yes			No rinsing of ready-mix trucks has taken place on the site or along the access track.
	Contaminated soil from such bunds to be disposed of at the municipal waste disposal site	Yes			No non-compliance noted.
6.2.14	<u>Noise, Dust Management and Nuisance Measures</u> During construction, work is limited to normal working hours as dictated by the local authority.	Yes			No noise or dust issues noted or reported to the ECO or site manager.
	Dust mitigation measure must be implemented as required. This will include spraying of water on gravel roads or exposed areas that generate dust or covering haul roads / exposed areas with wood chip to reduce the generation of dust – where necessary.			N/A	Not yet required – no dust complaints received.
	Temporary stockpile sites shall not be placed in areas that are going to result in a nuisance or eyesore to neighbours.	Yes			Compliant
7.	Rehabilitation Phase				
	All building rubble and waste must be completely removed and disposed of at an approved landfill site.	Yes			All waste and building rubble has been removed and disposed of.
	Compacted topsoil must be raked loose.	Yes			The pipeline route has been covered with rescued topsoil and raked loose.

					 HillLand Environmental Vaale Vallei 23.10.2024 12:31 34°5'57.6"S 22°7'2.54"E RT02  HillLand Environmental Vaale Vallei Pipeline 21.11.2024 14:54 -34.08919, 22.11666 Mossel Bay Local Municipality
	Agricultural areas to be reinstated as required by the landowner.	Yes			Contractor to confirm that the landowner is satisfied with the final condition of the land.

	Existing farm tracks / roads used during construction to be left to the satisfaction of the landowner.	Yes			The existing tracks have been left in the same condition as they were before construction began. All temporary tracks have been covered with topsoil and ripped loose.  Hill and Environmental Vaale Valley Pipeline 21.11.2024 14:48 -34.09206, 22.12 Mossel Bay Local Municipality NE
--	--	-----	--	--	---

Existing farm track

					 HillLand Environmental Vaalre Vlei 07.11.2024 15:09 34°5'25.78"S 22°6'53.92"E Mossel Bay Local Municipality Temporary construction haul route covered with topsoil and ripped loose.
	Stockpiled topsoil to be placed back (on top) and NOT compacted.	Yes			The stockpiled topsoil from the pipeline route has been replaced and loosened – these sections have begun to revegetate.

					 HillLand Environmental Vaale Valley 23.10.2024 12:34 34°54'13.7"S 22°7'18.53"E R102 NE
	Indigenous grass seed must be sown within the disturbed and affected areas (as indicated by the ECO);	Yes			The disturbed areas (pipeline route) have been covered with topsoil and grasses have already sprouted along the entire route. The ECO is satisfied with the rehabilitation progress.  HillLand Environmental Vaale Valley Pipeline 21.11.2024 14:47 34.09482, 22.12169 R102 SE

					 HillLand Environmental Waite Valley 16.10.2024 15:52 34.08993, 22.11747 Valk Street, Hartenbos, Mossel Bay
	Implementation of additional erosion control methods as required.			N/A	No additional erosion protection required at this stage.

1. Conclusion

No environmental issues or concerns were noted/recorded during this reporting period.

Excavations and backfilling after installation is complete. All disturbed areas have been respread with topsoil. Rehabilitation progress was monitored during this reporting period and the ECO is satisfied with the progress to date. The contractor needs to confirm that the landowner is satisfied with the final condition of the land.

Construction of the Vaale Valley pump station will continue in 2025.

The contractor and holder are compliant with the EMPr and EA.

In accordance with the EMPr, the ECO monitoring reports must be submitted to DEA&DP quarterly. This report is submitted to the DEA&DP.