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

ENVIRONMENTAL MONITORING REPORT FOR SEPTEMBER 2024



HillLand Environmental
Vaale Vallei
19.09.2024 14:04
34°5'57,85"S 22°7'2,02"E
R102



Compiled by:
HillLand Environmental
Reference:
MOS24/472/42
Report Period:
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<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

Report compiled by: Jennifer Teifel & Stefan Delport

Report reviewed by: Stefan Delport

Environmental Monitoring Report – September 2024

This report monitors compliance against the Environmental Management Plan (Ref: MOS23/472/02 – dated 20 July 2023) and it constitutes the sixth 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 September:

Date:	Comment:
28 August 2024	ECO site inspection and Meeting
05 September 2024	ECO site inspection
11 September 2024	ECO site inspection
19 September 2024	ECO site inspection
25 September 2024	ECO site inspection and Meeting

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. Environmental topics to be included in the toolbox talks.
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 Vaale Valley 19.09.2024 14:04 34°5'57,85"S 22°7'2,02"E R102
	Surplus subsoil that needs to be stockpiled for cut and fill operations must be stockpiled in an approved			N/A	No surplus subsoil currently, the subsoil is placed next to the trench and is replaced as the pipe sections are installed.

	area.				
	No pollutants (e.g. Bedding sand, cement etc.) to be dumped on site.	Yes	No		No dumping noted, however the cement mixing areas must be cleaned and rehabilitated – fence installation.
	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	Yes			The construction area and the No-Go vegetation areas are demarcated.

	into agricultural or sensitive vegetation areas is prohibited.				 HillLand Environmental Vaale Vallei 11.09.2024 13:36 34°5'20,82"S 22°6'57,81"E Mossel Bay Local Municipality NE
	All topsoil must be stripped from the area required and stockpiled in the site camp for later use in rehabilitation.	Yes			Trenches - Topsoil has been stripped and stockpiled along the side of the trench. No environmental issues noted.  HillLand Environmental Vaale Vallei 05.09.2024 15:20 34°5'20,77"S 22°6'57,93"E Mossel Bay Local Municipality NE

	It must be noted that the topsoil must not be contaminated with any other material e.g. sub soils etc.		No		Cement mixing areas directly on the topsoil must be cleaned and rehabilitated (remove and dispose contaminated topsoil and replace topsoil). Cement mixing must be done on a non-permeable surface and must be suitable bunded.
	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 is being done.
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			Farm gate is kept locked and closed. All visitors are required to sign in at the site office.  HillLand Environmental Vaale Valley 19.09.2024 14:03 34°58.29'S 22°7'1.97"E R102 

	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. 
	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.			N/A	Not applicable at this stage.
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 on the side of the road and on the proposed site for the pipeline. These	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.

	No – Go areas need to be clearly marked.				
	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			The R102 road reserve should also be seen as a no-go area when excavating and installing the pipeline between the pumpstation and the Hartland connection point. No environmental issues noted. Compliant, all work is kept within the working zone (shown by the yellow stippled line). (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.  HillLand Environmental Vaale Valley 05.09.2024 15:16 34°5'31.1"S 22°7'14.54"E Mossel Bay Local Municipality
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	Methods of demarcation will be agreed with the ECO and can include danger tape, rope, fencing, shade cloth, wire fencing etc.	Yes			The site and open trenches/excavations are being demarcated with droppers and orange netting.  Hilland Environmental Vaale Valley 28-08-2024 09:44 34°54'1.75"S 22°7'18.17"E R102
	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 noted during site inspections.
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.

					 HillLand Environmental Vaale Valley 05.09.2024 15:15 34°5'30,76"S 22°7'15,13"E Mossel Bay Local Municipality NE
	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.  HillLand Environmental Vaale Valley 28.08.2024 09:47 34°5'31,1"S 22°7'15,03"E Mossel Bay Local Municipality SW

	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.
	Adequate signage must be erected at the main entrance to the construction site to ensure that safety regulations are adhered to.	Yes			As per the approved method statement – no environmental issues to report. Sufficient signage is at the entrance gate to the site. 
	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.  HilLand Environmental Vaale Valley 05.09.2024 15:16 34°5'31.1"S 22°7'14.54"E Mossel Bay Local Municipality
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	<u>Waste management</u> Recycling must be encouraged on-site and recycling bins must be provided and clearly marked.			N/A	No recycling noted, although the current activity (excavation and installation of the water pipe) does not generally generate waste, therefore it is not necessary at this stage.

	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 current activity (excavation and installation of the water pipe) does not generally generate waste.
	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.  HillLand Environmental Vaalre Vlei 05.09.2024 15:15 34°5'30,74"S 22°7'15,25"E Mossel Bay Local Municipality
	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 current activity (excavation and installation of the water pipe) does not generally generate waste. Contractor to take note that waste must be disposed of at an authorised disposal facility.
6.2.12	<u>Ablution Facilities</u> 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.

	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 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		No		Cement mixing areas directly on the topsoil must be cleaned and rehabilitated (remove and dispose contaminated topsoil and replace topsoil).

	trapping mechanisms to ensure that contaminated water does not leave the restricted area (Bunding through the use of sandbag walls around any mixing areas is recommended).				Cement mixing must be done on a non-permeable surface and must be suitable banded. 
	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 road.
	Contaminated soil from such bunds to be disposed of at the municipal waste disposal site	Yes			Cement mixing issue was reported to the contractor and the contaminated soil will be removed.
6.2.14	Noise, Dust Management and Nuisance Measures 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.

	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			Ongoing
	Compacted topsoil must be raked loose.	Yes			Sections of the pipeline route that are complete have been covered in topsoil and raked loose. 
	Agricultural areas to be reinstated as required by the landowner.	Yes			Ongoing
	Existing farm tracks / roads used during construction to be left to the satisfaction of the landowner.			N/A	Still busy with construction.
	Stockpiled topsoil to be placed back (on top) and NOT compacted.	Yes			The stockpiled topsoil from the completed section of the pipeline route has been replaced and loosened – these sections have begun to revegetate. Contractor is reminded that the construction vehicles should stay on the designated roads (where possible) and avoid driving over and

					compacting the completed pipeline sections that have been respread with topsoil and vegetation is starting to grow – ongoing reminder.
	Indigenous grass seed must be sown within the disturbed and affected areas (as indicated by the ECO);			N/A	
	Implementation of additional erosion control methods as required.			N/A	None required at this stage.
	Maintenance of storm water system until handed over to the local authority.			N/A	

Conclusion

Contaminated soil as a result of cement mixing directly on the soil must be removed and disposed of at an authorised disposal site and the areas must be rehabilitated. No other environmental issues were noted/recorded during this reporting period.

Excavations and backfilling after installation are ongoing. Excavations and pipeline installations along the pipe route next to the R102 are progressing.

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

In accordance with the EMPr the ECO monitoring reports must be submitted to the DEA&DP quarterly, this is the sixth report, and it will be submitted to DEA&DP along with the fourth and fifth reports.