

UPGRADE OF THE KLAARSTROOM WWTP Method Statement Disposal of dry sludge from the Anaerobic Ponds

PROJECT REFERENCE	Upgrade of the Klaarstroom WWTP	CONTRACT NO. 33589 / 2019	
Project Description and Location	Construction of a new Oxidation Pond WWTP system for Klaarstroom village located in the Prince Albert Municipality, Western Cape.		
Holder Of The Authorisation	Prince Albert Municipality		
Consulting Engineers	BVi Consulting Engineers Upington Northern Cape Province		
Environmental Consultants	EnviroAfrica cc		
Main Contractor	De Jagers Loodgieter Kontrakteurs		
Environmental Authority	Western Cape Province Department of Environment Affairs & Development Planning		
DEA&DP Reference Number	16/3/3/1/C2/3/0008/19		
Method Statement Compiled by	GH Meiring	Date Submitted: 07 /09/ 2020	Approved: yes/no

WHERE ARE WORKS TO BE UNDERTAKEN:

RE Portion 32 & RE Portion 34 of Farm Klaarstroom 178, Prince Albert, Western Cape

WHAT WORKS WILL BE UNDERTAKEN:

The old Anaerobic Ponds contained raw sludge of unknown quantity and quality. During construction, a Temporary Drying Bed c/w HDPE liner was constructed and the sludge was placed in this facility to dry out and make it more manageable. The Environmental Authorization required the sludge to be sampled and analyzed once dry to determine possible disposal options. The sludge analysis was conducted and returned a classification of B1a. This indicates that the sludge is safe for agricultural use or co-disposal with domestic waste at a municipal landfill site.

Subsequently, this method statement is for the disposal of approximately 125 m³ of dry wastewater sludge by removing it from the Temporary Sludge Drying Bed at the WWTP, and disposing of it at the municipal solid waste disposal site.

Although the sludge is classified as a B1a type sludge, which makes it beneficial for agricultural use, the available volume makes it uneconomical to transport for such use. Subsequently, the available sludge will be disposed of off site at the municipal landfill site.

HOW WILL THE WORKS BE UNDERTAKEN:

- All workers are to be issued with appropriate PPE such as overalls, safety boots, rubber gloves and dust masks before any activities commence.
- A TLB front-end loader will be utilized to load the dried sludge onto a tipper truck.
- The last remaining sludge in the Temporary Drying Bed will be removed and loaded into the TLB bucket by hand using handtools such as rakes and shovels.
- The tipper truck will transport the dried sludge to the local municipal Solid Waste Disposal site located approximately 600m from the WWTP site.

- The sludge will be tipped onto the ground and then mixed with the domestic solid waste, and then be compacted with domestic solid waste into a cell.
- When the cell is full, it will be capped with a compacted soil cover of not less than 300mm thick.
- Once all the sludge has been removed, the temporary sludge drying bed lining will be removed, and the soil berms will be flatted and levelled to natural ground level.
- Once this has been done, the works will be deemed to be completed.

ENVIRONMENTAL ASPECTS TO BE UNDERTAKEN:

- Occupational Health & Safety compliance in terms of correct PPE.
- Compliance to the requirements of the Environmental Authorization conditions for dealing with sludge.
- Compliance to the Brandvlei BWS EMP requirements for dealing with the dried sludge.

STARTING AND COMPLETION DATE OF THE TASKS FOR WHICH THE METHOD STATEMENT IS REQUIRED:

Starting Date: November 2020

Completion Date: December 2020

DECLARATIONS**1) CONTRACTOR**

I understand the contents of this Method Statement and the scope of the works required of me. I further understand that this Method Statement may be amended on application to other signatories and that the ECO and Site Agent will audit my compliance with the contents of this Method Statement

(Signed)

(Print name)

Date: _____

2) ENVIRONMENTAL CONTROL OFFICER

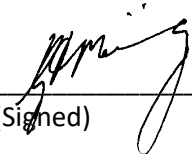
The work described in this Method Statement, if carried out according to the methodology described, is satisfactorily mitigated to prevent avoidable environmental harm:

(Signed)_____
(Print name)

Date: _____

3) ENGINEER

The works described in this Method Statement are approved.



(Signed)**GH Meiring Pr TECH Eng**_____
(Print name)**Project Engineer**_____
(Designation)**25 September 2020**_____
Date: