

Verw: 1718DOV-MS(Weir)  
Datum: 29/05/2017

**TO WHOM IT MAY CONCERN**

**METHOD STATEMENT ~ DRAFT**

**FOR THE CONSTRUCTION / REHABILITATION OF**

**EKSTEENSKLOOF WEIR, FARM RE234, SWELLENDAM DISTRICT, SANGASDRIFT TRUST**

**A) GENERAL**

**SCOPE OF WORK**

The project entails the rehabilitation of a steel-reinforced concrete weir with piped outlet works. The weir will have a maximum height of  $\pm 2,2\text{m}$ , a total length in the order of  $\pm 35\text{m}$  and a top width of  $\pm 300\text{mm}$ . It will be based on a foundation of about  $3,6\text{m}$  wide and will also be equipped with a downstream flush valve.

The proposed construction period is planned for Feb 2019 to March 2019 when the stream is at its driest.

**MATERIALS**

Steel, concrete & sand mixture

**CONSTRUCTION AREA AND SITE CAMP**

The construction site will include the total footprint of the weir including related small works on the side as well as a maximum 2m wide workspace along the length of the weir. Since the size of works is relatively small, not much extra area outside the 2m construction strip would be necessary except for the area where operators would be able to park vehicles as near as possible to the site. However, the contractor will have to negotiate with the landowner regarding the provision of such required services.

General site management and maintenance will be done in accordance with the Environmental Management Plan (EMP).

With reference to the relative small works no camp site as such would be required, neither would any smoking or eating facilities be necessary at the construction site and would be provided elsewhere.

The construction area will be demarcated.

Dedicated access roads will be maintained to an agreed and acceptable standard by the contractor.

All construction plant and equipment will be restricted to the construction area in order not to harm or damage the surrounding vegetation.

Clearing of any vegetation for construction purposes will only be permitted inside the demarcated construction site and along agreed access roads.

**Solid waste control:**

A garbage bin will be placed on site and be emptied weekly at an approved waste area or as arranged with the land owner. No burning or burying of waste will be allowed.

**ABLUTION FACILITIES**

No chemical toilet system will be used on the construction site as such but rather the existing bathroom facilities on the neighbouring farm as arranged with the concerned owner.

**PLANT**

Plant maintenance on site:

N/A

Oil & Fuel spills:

N/A

Fuel storage; refueling and fuel spills:

N/A

**B) CONSTRUCTION****SITE CLEARANCE & REHABILITATION**

The first step will be to prepare the construction site by way of stripping and clearing the footprint area of the works including the demarcated work space from all vegetation and contaminated material, either by hand or machine.

Plant material will either be spoiled at a registered waste site or burnt on site in accordance with applicable regulations. Reusable topsoil will be collected and stockpiled at dedicated areas for the rehabilitation of the site after completion in particular the downstream areas where necessary as well as other disturbed areas outside the footprint of the works.

**FOUNDATION PREPARATION & DE-WATERING**

Foundation preparation entails stripping off and removing topsoil as well as unsuitable material within the footprint of all the works to an acceptable standard before any form of construction work will be allowed to continue.

In this case being an in-stream construction site, the stream and surface water will be collected and diverted through or around the construction site by way of a combination of temporary works including cut-off and bypass channels, a small coffer dam, temporary pumps if necessary, etc, to collect and contain the water in order to ensure safe and acceptable working conditions. The outlet pipe will be installed early in order to be used as bypass when and if further construction takes place in the stream bed.

Sedimentation at the outflow side downstream of the works will be limited by way of ponding or cascading with stone formed berms and filters made up of hay bales in combination with bidum to suite site conditions.

**CONCRETE WORKS AND CEMENT BATCHING**

All concrete will be imported as "ready-mix" concrete from a local supplier. No concrete will be mixed on site and surplus or waste will be sent back to the supplier who will dispose of it. Concrete chutes of the supply trucks will be cleaned and washed at a dedicated wash bay from where contaminated water and waste will be spoiled at a registered dump site. Small quantities of hand-mixed concrete will be done on mixing boards and wasted similarly to the above.

**C) DIVERSE & OTHER**

Environmental Awareness:

An induction course will be conducted by the ECO on the construction site at commencement of works.

Environmental awareness training of new and follow up of older staff members as well as sub-contractors will be conducted at regular intervals or as deemed necessary.

Emergency procedures and Fire hazard:

There will be a fire extinguisher at the site at all times. All fire equipment will be serviced monthly and they will be checked bi-weekly by the acting fire officer. No open fires will be allowed on site. The site agent of the contractor will also act as the environmental officer on behalf of the contractor if a dedicated person or agent is not appointed.

Administration:

All relevant Material and Safety Data sheets will be available on site throughout the contract.

The contact numbers of the *local police* and *emergency services*, will be provided to all employees.

A general search and rescue will be conducted.

Sediment and erosion control:

No sediment or concrete waste will be able to enter the stream as the recommended hay & bidum filters will act as buffer to contain sediment and concrete waste from the construction area before any join the stream again. Topsoil from temporary stockpiles will be used to cover exposed areas to encourage the fast growth of vegetation to prevent unnecessary erosion after the construction period.

Storm water management:

Although construction period is planned for the very dry season, storm water ditches will be constructed in order to let water flow freely via the bypass to the joining with the stream again without unnecessarily eroding the soil. Drainage furrows will be maintained and kept clean at all times in order to prevent rainwater from scouring and eroding surrounding areas and sedimenting the stream.

Dust and noise control:

N/A

Contaminated water control:

Discharges such as cement, lubricants, fuels, etc, will be minimized in accordance with the EMP.

No go areas:

All activities will be limited to the agreed and dedicated construction areas.

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