



SOP FOR THE ERECTION OF FURTHER RAINWATER PONDS ON THE BUILDING SLAB

1. Introduction

The fire damaged building that housed the UPL Warehouse and the Retailability Warehouse is now in the process of demolition. The implication of this is that a greater area of floor slab will now be exposed to rainfall (due to the removal of the roof). This rainfall is at risk from contamination due to residual products remaining in and under the floor slab.

The portion of the floor slab that was demolished shortly after the incident has been covered to a large extent by shallow, prefabricated HDPE ponds that catch rainwater directly without it reaching to floor slab. This has been successful in preventing contamination of rainwater as well as reducing the amount of potentially contaminated water reaching the PCD.

It is now intended to extend the area covered by the ponds to satisfy these needs. This SOP outlines the construction procedure to be adopted.

2. Preparation

Preparation of the slab surface onto which the ponds are to be placed is of the utmost importance as the HDPE pond liner may be easily cut by sharp objects, on or embedded in the slab. Of particular concern are exposed pieces of the chopped wire reinforcing embedded in the slab.

The entire surface of the slab shall therefore be totally cleaned of all loose sharp objects and then inspected for exposed wire or other sharp protrusions that may tear the liner. Such sharp protrusions shall either be ground down to a smooth finish, or masked with a suitable bandage to protect the liner.

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3. Installation

The rainwater accumulation ponds shall be installed in accordance with their design, on the slab in such a manner as to minimise the amount of slab exposed to direct rainfall.

Interconnecting pipework shall be installed so as to allow the ponds to operate in parallel with balanced water levels.

4. Cleaning

The rainwater ponds shall be cleaned to remove any dust, silt or foreign matter to prevent contamination of rainwater to be captured.

5. Testing

On completion, each pond shall be tested with clean potable water to ensure that they are completely watertight ahead of commissioning.

6. Final Disposal of Clean Rainwater

Collected rainwater will be drained by gravity to the Ohlanga tributary to the West of the platform at a frequency such that the ponds will not overflow onto the platform and thus allow the rainwater to become contaminated by contact with the platform surface.

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G T Westgate Pr Tech Eng
For and on behalf of Waterscience (Pty) Ltd

9th September, 2022