
Project:	Cefn Drysgoed WTW DAF		
Our reference:	B17545-123532-14-XX-NN-CA-EI0093		
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Approved by:	Gregory Cornelius	Checked by:	Kay Morris
Subject:	Cefn Drysgoed WTW DAF Drainage Statement		

1 Introduction

Currently there is no dedicated manganese removal process at Cefn Drysgoed WTW. There is a potential for elevated levels of manganese due to its presence in the raw water. There is a DWI commitment to deliver a permanent dedicated manganese removal stage, including waste handling plant and ancillary equipment.

The proposed scheme entails the construction of a DAF building at Cefn Drysgoed WTW to house the installation of three new DAF tanks, DAF Motor Control Centre, flocculators, balancing tanks, and other processing and ancillary equipment, the installation of new electrical cabling, distribution boards, PLC and instrumentation, pipelines to connect the new DAF building to the existing WTW and to connect the existing raw water main to the DAF plant including associated chambers and ducts for chemical dosing and electrical cabling, as well as a new stone wall, fencing, drainage, soft landscaping, access track and temporary enabling works.

The proposed solution of a new DAF building adjacent to the existing WTW, with a new access road is shown on [*B17545-123532-12-XX-DR-CA-PN1201 P02 - Works site layout*].

This drainage statement outlines how drainage will be managed for the new DAF building and access road.

2 Site location and existing drainage arrangements

The site location is:

NGR: SN 909094

What3Words: overdone.ballpoint.crumple

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The proposed DAF building is adjacent to the existing WTW on undeveloped land, where there is no existing drainage arrangement.

The surface area of the proposed building is: 1060m²

The surface area of the proposed access track is: 1471m²

Refer to *B17545-123532-12-XX-DR-CA-PN1201 P02 - Works site layout* for the proposed works.

3 How surface water will be managed and discharged

The SuDS Standards and Building Regulations require surface water to be discharged at the highest priority level practicably available for the site.

Priority level 1 – surface water runoff is collected for use

There is no foreseeable demand for non-potable water on the site throughout its design life. Surface water runoff will therefore not be collected for use.

Priority level 2 - surface water runoff is infiltrated to ground

Surface water runoff from the new access road will be infiltrated to the ground adjacent to the road via a trench soakaway.

Surface water runoff from the roof of the new DAF building will be conveyed via guttering, downpipes, manholes and carrier drains into soakaways to the north-west and south-east of the new building.

Refer to *B17545-123532-12-XX-DR-CA-PN1201 P02 - Works site layout* for the indicative locations and dimensions of the proposed soakaways. The exact dimensions and locations will be confirmed in the detailed design stage.

Soakaways will be designed in accordance with *BRE Digest 365 – Soakaway Design*.

A ground investigation has been undertaken that confirmed the ground has a high permeability. Therefore, the site will be suitable for soakaway's to store and infiltrate surface water to ground.

Priority level 3 - surface water runoff is discharged to a surface water body, i.e. watercourse

Not applicable.

Priority level 4 - surface water runoff is discharged to a surface water sewer, highway drain or another drainage system

Not applicable.

Priority level 5 – surface water runoff is discharged to a combined sewer

Not applicable.

4 Pollution control

Please refer to the following supporting documentation from the planning application submission:-

- *B17545-123532-14-ZZ-DR-NA-EI1220 P01 - Pollution Prevention Plan.*
- *B17545-123532-14-XX-PR-NA-EI0086 P01 – Construction Environmental Management Plan, Section 7.*