

DUDLEY-SMITH Laura

From: DUDLEY-SMITH Laura
Sent: 15 June 2021 11:48
To: James Ryan
Subject: Tiptree
Attachments: gfr_vol.csv; post dev equiv gfr.csv; post dev equiv gfr_vol.csv; Post dev equiv_GFR_1yr.pdf; Post dev equiv_GFR_2yr.pdf; Post dev equiv_GFR_30yr.pdf; Post dev equiv_GFR_100yr.pdf; Post dev equiv_GFR_100yrCC.PDF; REFH2_GFR - 1 year.pdf; REFH2_GFR - 2 year.pdf; REFH2_GFR - 30 year.pdf; REFH2_GFR - 100 year.pdf; REFH2_GFR - 100 yearCC.PDF; GFR_1 year vol.pdf; GFR_2 year vol.pdf; GFR_30 year vol.pdf; GFR_100 year vol.pdf; GFR_100 yearCC vol.pdf; gfr.csv

Hi James,

I have been provided with the following response and attachments to address the ECC SUDs comments most recently received for Tiptree. Are you able to pass this to the team in the hope that it enables them to lift their current objection please?

- 1) See greenfield rates attached for current situation and proposed development which are also summarised in tables 1 and 2 in the FRA. (note the refh2 software on the pdf's round the flow rates up in cases where the rates are low, hence revert to excel output from software attached which show exact number).
- 2) Section 5.6 of the FRA discusses pollution prevention in accordance with CIRIA 753 and also the benefits that detention basins have on pollution mitigation from development sites. When considering the adoptable highway draining to the basin and it having a medium pollution hazard due to a high number of traffic movements, additional pollution measures could consist of those discussed in Chapter 16 of CIRIA 697 and Chapter 14 of CIRIA 753 which suggests that pre-treatment measures could comprise, for example, proprietary filtration systems which trap particulates and soluble pollutants from the runoff prior to discharge into the basin. For example, a Polypipe RIDGISTORM-X4 product would be suitable as shown at <https://www.polypipe.com/civils-and-infrastructure/ridgistorm-x4-surface-water-treatment-devices>. Section 21.9.9 of CIRIA 753 indicates that a sediment sump could be included or sediment traps. Furthermore, an oil interceptor could be included prior to discharge into the basin.
- 3) Rainwater reuse has been considered further. It is proposed that water butts are provided on downpipes to capture and provide some attenuation of runoff from the roof area. Once the water butt becomes full, surface water will overflow into the drainage system.

Kind regards,

Laura

Laura Dudley-Smith

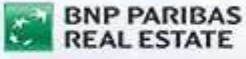
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