

# Technical Note



<b>Project</b>	Newgate Lane, North
<b>Project Number</b>	23013

Subject Flood Risk and Discharge Restriction

Date 24 February 2021

At Appeal we understand the Planning Inspector had noted in The Civil Engineering Practice Flood Risk Assessment dated April 2019 that we had stated a 5l/s restriction as the maximum practical in the report and the greenfield run off for equivalent Qbar was noted at 4l/s.

At the time of writing the original Flood Risk Assessment in early 2018 a 5l/s restriction was the minimum that a hydrobrake could practically achieve. Hydro International, who manufacture hydrobrakes, have since released further devices that can now restrict to as low as 0.7l/s.

For this site we had noted a restriction to 5l/s for all storm events up to and including the 100 year plus climate change event and sized the required attenuation and storage accordingly to prove sufficient space is available on the site.

The equivalent greenfield run off for a 100 year rainfall event is 11l/s/ha, as noted in Section 3.3.3, which would allow up to a 13.09l/s equivalent discharge from the site for the 100 year rainfall event.

The restriction could now be reduced to 4l/s for the Qbar event and 13l/s for the 100 year event at detailed design stage using a compound discharge. This would not increase the area or storage required for the site.

The application can accept a condition that will ensure the discharges are agreed or at equivalent greenfield run off rates in compliance with SuDS guidance.

*SR Magowan*

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Director

