



## River Lugg Internal Drainage Board

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HR1 2ZB

**Our Ref:** MG/100/E/6

**Date:** 24<sup>th</sup> December 2013

**Planning Application:** P133305/F

**Description:** Erection of 2 nos. broiler units with a linked control room and associated hard standings, feed bins and attenuation pond.

**Location:** Claston Farm Dormington Hereford Herefordshire HR1 4EA  
Easting – Northing: 358480 - 240655

Dear Sir,

I am writing to you to respond to the above Proposal as detailed on your weekly planning list. I wish to advise that the site is located inside the Board's operational area has the potential to have direct effect on the Board's operational interests and watercourses under the Board's control. The application pack informs us of the intention to dispose of surface water via sustainable drainage, I would therefore like to inform you of the Board's standard requirements in respect of surface water disposal:

- Rates for storm water runoff discharged from the site to replicate or achieve a reduction from the 'greenfield' response of the site over a range of storm probabilities, accompanied by the required On-site Storage designed for the 1 in 100 year storm event.
- For the range of annual flow rate probabilities, up to and including the 1% annual probability (1 in 100 year storm event) the developed rate of run-off discharged from the site into a Viewed Reen or ordinary watercourse shall be no greater than the undeveloped rate of run-off for the same event.
- The potential effect of future climate change shall be taken into account by increasing the rainfall depth by 10% for computing storage volumes.
- All in compliance with The **Institute of Hydrology Report 124** (IoH 124) - *Flood estimation for small catchments (1994)*
- **All to the satisfaction of the Engineer to the Board**

The developer should be informed that **No additional surface water runoff** is permitted within the Board's district without written **Land Drainage Consent**, which would have to be obtained from the Board under the terms of the *Land Drainage Act 1991* and the *Flood and Water Management Act 2010*.

The document available online entitled "Proposed Poultry Development at Claston Farm FLOOD RISK & SURFACE WATER MANAGEMENT" prepared by Land Drainage Consultancy Ltd suggests that the IDB require a discharge rate of 1.4 l/s/ha, current practises require the use of The Institute of Hydrology Report 124 (IoH 124) - Flood estimation for small catchments (1994) along with catchment descriptors taken from FEH CD-ROM 3. Land Drainage Consultancy Ltd has used this method, albeit with different catchment descriptors to those identified by the IDB for the location provided, and calculated a discharge rate of 5.23l/s for a 1 in 100 year event at the site. However, when controlling discharge from the site they have suggested restricting discharge to the 1 in 1 year event discharge rate of 1.74l/s. To achieve this, the consultant has suggested using an orifice with a 31 mm diameter that discharges in to a nearby field ditch, it has quite rightly been identified that this would be prone to blockages, as such is not practical. The Boards standard requirements allow a discharge rate up to the undeveloped rate of run-off up to and including the 1 in 100 year storm event. It is impractical to design an outfall, restricted to 1.74l/s and based on our calculation using the above described catchment descriptors taken from FEH CD-ROM a discharge of 5 l/s for this site would be acceptable.

The accompanying proposed on-site storage designed for the 1 in 100 year storm event of 670 m<sup>3</sup> is also acceptable to the Board and advise strict compliance with this proposal. The proposed route of discharge from the attenuation pond is via the outlet described above to control flow to a private field ditch, which connects to an IDB viewed watercourse less than 100m away known as Claston Watercourse No. 1 which in turn connects to the River Frome which is just 40m away from the link to Claston Watercourse. Due to the close proximity to the main river it is suggested that the opinion of Environment Agency to be sought when considering the storage and discharge rates.

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I would also draw your attention to:

1. The area of River Lugg Internal Drainage Board is a Natural Flood Plain and whilst every effort will continue to be made to guard against and to alleviate flooding, no guarantee can be given against the worst effects of abnormal weather and river conditions.
  2. Compliance with the recommendations in the following Report:
    - Technical Guidance to the National Planning Policy Framework 2012.
  3. That both current and future developers/owners should be made aware of the risks associated within the area being considered.
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Finally, it should be noted that for any matters regarding water quality we advise that you contact the Environment Agency.

Thank you for consulting The River Lugg IDB.

Yours Sincerely



**Mark Groves - BEng (Hons) MSc**  
**Assistant Engineer**

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