

## Development Management

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**Subject:** FW: 2022\_10\_19 CP Objection LLFA  
**Attachments:** CLM07 DRAINAGE STRATEGY CATCHMENT TABLES (50% Climate Change - QBAR Runoff) (REVISED 10-11-2022).xlsx; CLM07-LCC-DEV-0500-0001 - Drainage Strategy (Rev B).pdf; Catchment 1.pdf; Catchment 2.pdf; Catchment 4.pdf; Catchment 6.pdf; Catchment 8.pdf

**Importance:** High

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**From:** Wilson, Grace <[Grace.Wilson@lancashire.gov.uk](mailto:Grace.Wilson@lancashire.gov.uk)>  
**Sent:** 16 November 2022 15:13  
**To:** Ashworth, Helen <[Helen.Ashworth@lancashire.gov.uk](mailto:Helen.Ashworth@lancashire.gov.uk)>  
**Cc:** Osullivan, Niamh <[Niamh.Osullivan@lancashire.gov.uk](mailto:Niamh.Osullivan@lancashire.gov.uk)>  
**Subject:** FW: 2022\_10\_19 CP Objection LLFA  
**Importance:** High

Hi Helen,

Please see attached and below our response to comments from the LLFA regarding the drainage for Cottam Parkway.

*The greenfield runoff calculation for all the catchments through the UK SUDS calculator using the IH124 method, which specifically addresses the runoff from small catchments. Using this tool, it only accepts catchments of a minimum of 0.1ha therefore the catchments less than this amount are not be attenuated and will therefore have no flow control (as was originally proposed).*

*The QBAR and actual proposed discharge rates have therefore been removed from spreadsheet as these areas are so small they are considered to naturally discharge at the rate they would have previously. This was what was originally proposed, the spreadsheet has now just been corrected, it was incorrect to put in a proposed discharge rate (using the 5 l/s minimum) against the greenfield runoff rate for areas that are not to be attenuated and therefore no flow control proposed.*

*Furthermore, the more accurate values given by the UK SUDS tool are larger, which means that we have been able to set the smaller catchments that are left (and above 0.1ha) to the acceptable minimum of 5 l/s, and have lowered the proposed discharge rate of the larger catchments to less than they need to be, so that the total proposed discharge rate is now equal to the total QBAR runoff rate.*

*Please therefore see attached revised Drainage Strategy drawing and Catchment Table, as well as PDF reports from the UK SUDS tool showing how the QBAR has been calculated for the relevant catchment areas.*

If you could forward this to the LLFA for review that would be greatly appreciated.

Kind Regards,

Grace

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**From:** Osullivan, Niamh <[Niamh.Osullivan@lancashire.gov.uk](mailto:Niamh.Osullivan@lancashire.gov.uk)>  
**Sent:** 19 October 2022 09:38  
**To:** Farron, James <[James.Farron@lancashire.gov.uk](mailto:James.Farron@lancashire.gov.uk)>  
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Hi James

LLFA have objected to the application [see link](#) can you look at this and the work that needs to be done to remove this objection.

Many thanks

Niamh

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