

Simon Davis

From: Sarah Sutcliffe <[REDACTED]>
Sent: 04 April 2022 09:45
To: Simon Davis
Subject: RE: AL/28/22/DOC (Condition 10) & AL/29/22/DOC (Condition 11) (Wing's Nursery, Lidsey Road)

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Hi Simon,

Following your correspondence below please

Condition 11:

Please see attached e-mail correspondence between our engineers and Paul Cann, ADC Principal Drainage Engineer in their capacity as Lead Local Flood Authority confirming extension of the Ordinary Watercourse consent under the Land Drainage Act.

Condition 10:

Due to the size of the additional/revised information, I am unable to send over by e-mail – please therefore find a link here: [\[22 04 04 Condition 10\]](#), please let me know if you have any issues accessing/downloading the information. Please also find relevant responses to the comments received by Laura Gibbons on 22 March 2022 as follows (responses in red):

Engineers Comments Regarding Condition 10

- 1. Please provide a layout plan showing the locations of groundwater monitoring and infiltration testing. Please refer new drawing SK01 which annotates the geotechnical results.*
- 2. Please provide further details of infiltration testing, i.e. date of testing and depth of pits. Please refer new drawing SK01.*
- 3. Please provide greenfield runoff rate calculations for the proposed impermeable area which is positively drained. Please refer to the QBAR data and new drawing SK02 which summaries the impermeable areas positively drained and areas where urban creep is applied. This is reflected in the 1D calculations.*
- 4. Please provide catchment impermeable areas diagrams. Please refer new drawing SK02.*
- 5. Please provide exceedance flow drawings. Please refer new drawing SK03.*
- 6. Please detail hydrobrake unit references on layout and details. This is now annotated on the technical layout and supporting construction details.*
- 7. Water level in network 2 is above cover levels of adjacent permeable paving- it appears that exceedance will occur in the 1 in 100 year plus 40% cc rainfall event. Please provide evidence of what flood depths will be, and that these will not threaten dwellings. The geocellular tank model has been adjusted to ensure the maximum water levels are below the lowest permeable pavement/road gully level.*

8. *Please provide manholes on the points of connection into the main network from pipes serving 2 or more dwellings. The technical layout has been updated accordingly.*
9. *Please clearly label finish and formation level of all permeable paving areas. The technical layout has been updated accordingly (see orange text).*
10. *Please label cover levels of gullies. The technical layout has been updated accordingly.*
11. *Please detail proposed outfall inverts, along with inverts of culvert and watercourse at the proposed points of connection. The technical layout has been updated accordingly to match the approved OWC.*
12. *Please provide flotation calculations for cellular storage and attenuation basin. Please see attached calculations in directory 05.*
13. *Please provide data sheets to evidence flow control devices for S102 and S23 will achieve the criteria within the flow model. Please see attached data sheets in directory 07.*
14. *Please detail overflow level on S23 construction detail drawing. The construction detail now specifies the overflow location and size.*
15. *Please detail membrane around attenuation tank on construction detail drawing. Please make detail site specific. The construction detail is now updated.*
16. *Please provide construction detail drawings of permeable paving. The construction detail is now updated.*
17. *Please provide two perpendicular cross sections of the basin, please detail liner, topsoil depths, etc. on construction detail drawing. Please refer to drawing 15.3.*
18. *For the bagwork headwalls to the basin- please detail bag size, how full bags are to be with ST4 concrete, how bags are to be compacted, what bond pattern is to be followed, spacing of pins, minimum width of headwalls, etc. Please refer to drawing 15.3.*

Hope all is clear, however if you need anything further, please do not hesitate to contact me. I would be grateful if you could confirm when you have been able to access the drawings provided via link.

Kind Regards,

Sarah

Sarah Sutcliffe
Planning Manager

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