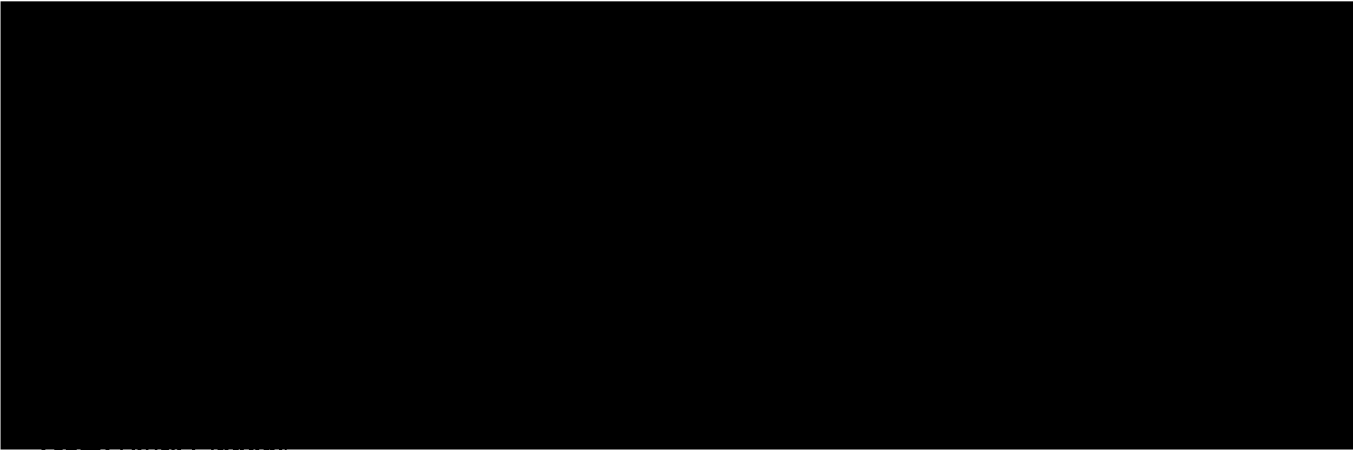




**From:** Laura Gibbons

**Sent:** 29 August 2019 11:46

**To:** Planning.Responses <Planning.Responses@arun.gov.uk>

**Cc:** Andrew Wood <Andrew.Wood@arun.gov.uk>

**Subject:** RE: Planning Consultation on: A/104/19/RES

Engineers Comments Regarding Surface Water Drainage

It appears that the applicant is looking to discharge the drainage conditions with this application or soon after with the documents supplied with this application. I have the following comments on the information submitted. It should be noted that these comments may also affect surface material specifications.

1. Groundwater monitoring was undertaken and recorded groundwater to shallow depths of 0.43, 0.66 and 0.89mbgl. It is accepted that the results from WS1 and WS2 should be used for the surface water drainage design as they are relevant to the areas proposed for infiltration. It is not clear what the maximum recorded groundwater level was at each monitoring location respectively. Please can this be confirmed.
2. Infiltration testing was completed at one location and gave rates of  $5.13 \times 10^{-4} \text{ms}^{-1}$  at 0.9m depth. This is deeper than the highest recorded groundwater levels and the scarcity of infiltration testing is of significant concern. We would have expected at least one further infiltration test, ideally two further tests at the proposed location and depth of infiltrating structures.
3. Please can an impermeable areas plan be provided that clearly shows the impermeable areas draining to each surface water drainage feature.
4. The filter drain is inadequate. Maximum modelled water depths are nearly 1m. This clearly will not be able to be contained above maximum recorded groundwater level.
5. From looking at cross sections it also appears that the filter drain will be on a slope, please ensure this is accurately depicted within calculations.
6. Please provide evidence that a resin bound surface with open surface course asphalt is permeable. We have significant concerns over the permeability of this type of surface now and over the design lifetime.
7. A permeable liner should fully wrap around the sub-base of the permeable paving areas.
8. Please confirm material specification for filter drain. All sub-base material should be no fines.
9. Are diffusers to be used to disperse surface water into permeable paving subbases? Please provide construction details and locations of these if so. Diffusers should be located 5m from buildings, therefore the use of permeable patios to receive roof water is not acceptable.
10. Catchpits must be provided upstream of all connections to permeable paving. Please ensure the location of rwp, catchpits, and connections to permeable areas are clearly shown on plan.

11. Please provide invert levels and cover levels of all inspection chambers, manholes, filter drains, etc. Please also ensure that finish and formation level of permeable paving is clearly provided on plan.

I will provide further detailed comments once these points have been addressed.

Regards,

Laura Gibbons, MEng, GMICE  
Engineer (Drainage & Coastal)

Laura Gibbons | Engineer (Drainage & Coastal), Engineering Services, Arun District Council | Location: First Floor, Arun Civic Centre,  
Maltravers Road, Littlehampton, BN17 5LF

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Visit Arun's web site at <http://www.arun.gov.uk/> and [www.chichester.gov.uk](http://www.chichester.gov.uk)



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**From:** [planning.responses@arun.gov.uk](mailto:planning.responses@arun.gov.uk) <[planning.responses@arun.gov.uk](mailto:planning.responses@arun.gov.uk)>

**Sent:** 14 August 2019 09:21

**To:** Land Drainage <[Land.Drainage@arun.gov.uk](mailto:Land.Drainage@arun.gov.uk)>

**Subject:** Planning Consultation on: A/104/19/RES

**To: Engineers (Drainage)**

**NOTIFICATION FROM ARUN DISTRICT COUNCIL**

**Town & Country Planning Act 1990 (as amended)**

**Town and Country Planning (Development Management Procedure) (England) Order 2015**

**Planning Permission**

**APPLICATION NO: A/104/19/RES**

**Registered:** 13th August  
2019

**Site Address:** Crete Nursery Dappers Lane Angmering BN16 4EN

**Grid Reference:** 507315 104950

**Description of Works:** Approval of reserved matters following A/178/17/OUT for the  
demolition of existing outbuildings with retention of existing dwelling  
& erection of 6 No. dwellings.

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The Council have received the above application. I shall be pleased to receive any observations you may wish to make.

[Click here to view the application details](#)

**Should you have any comments to make, these should be sent by replying to this email by 13-SEP-19.**

You can also monitor the progress of this application through the Council web site:  
[www.arun.gov.uk/planning](http://www.arun.gov.uk/planning)

**Please be aware that any comments you may make will be available on our website so please do not insert personal details or signatures on your reply.**

In the absence of a reply within the period stated, I shall assume that you have no observations to make.

The application will be determined having regard to the development plan policies (if any are relevant) and other material considerations. The development plan can be accessed via the website as can the leaflet which deals with material planning considerations.

Should the application go to appeal the Planning Inspectorate will publish any comments made to the Council on their website: [www.planningportal.gov.uk/planning/appeals/](http://www.planningportal.gov.uk/planning/appeals/) but they will protect personal details.

The officer dealing with this application is Andrew Wood who can be contacted on telephone number 01903 737768.

Regards  
Planning Officer

consultee\_email

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