

[REDACTED]

From: Sarah Burrow <Sarah.Burrow@arun.gov.uk>
Sent: 07 May 2021 11:21
To: Planning.Responses <Planning.Responses@arun.gov.uk>
Cc: Simon Davis <Simon.Davis@arun.gov.uk>; Laura Gibbons [REDACTED]
Subject: BN/41/21/DOC (Tars Farm) Engineers Consultation

Engineers Comments Regarding Surface Water Drainage

Thank you for consulting us. The general principle of the surface water drainage strategy is acceptable. However, we would like the applicant to address the following matters before we recommend discharging condition 6 relating to BN/39/20/PL. I think the most crucial issue is that we consider this to be the detailed design stage, in places the designer refers to details which will be 'determined at detailed design stage', this may be appropriate where a Full/Outline/Reserved Matters application is being made, however, this is a discharge of conditions application (DOC), after which point we have no further oversight. If the approved plans change at a later stage a further DOC or a Non Material Amendment application would have to be made and our preference is to ensure that the design we approve is implementable as it stands.

Please can the following comments be addressed, I have listed these in numerical format for ease of reference:

1. Please submit the Activity Permit approving discharging to the Main River. At the very least, evidence that the application has been made. If the application is refused then the proposed drainage strategy will not be implementable.
2. As the proposed outfall is to Barnham Rife which has a functional flood plain in this location (to the north west) please show calculations that account for a surcharged outfall, please make the surcharge level equivalent to the 1 in 100 year flood level in the rife.
3. Please submit floatation calculations for the proposed basin, (to account for groundwater at ground level). Please also show any necessary alterations to the pond base construction on the construction detail drawings.
4. The drainage layout shows four pipes connecting with inspection chamber S5 within a tree root protection zone. Please relocate the inspection chamber and pipes to avoid the zone.
5. Please include a list of cover types for each manhole on the layout if each manhole is not individually labelled. It would also be helpful to label each manhole with the appropriate type to correspond with the construction detail drawings.
6. Please label sump depths or sump levels where they are provided on the drainage layout.
7. Please label Hydrobrake flow control with it's product number and design head on the drainage layout.
8. Please provide two perpendicular sections of the proposed detention basin. Please clearly label invert level, top of bank level, width at base, and width at top.
9. Please show overlaps and jointing requirements of the impermeable liner on the construction details.
10. Please provide a site specific construction detail drawing of the Hydrobrake flow control device. This should include the product number, invert level, cover level, incoming and outgoing pipe diameters, step rungs and pull handle.
11. Please provide an elevation drawing of the GRP Headwall. Please show all pipe inverts at headwalls to be at least 150mm above the bed of the watercourse/basin.

12. Please label the headwalls (type A or B) on the layout. It would be helpful to tabulate the hard bed, soft bed and top of bank levels for the different headwalls with the construction details (rather than provide an individual detail for each one).

Please contact me once further information has been provided and I will give a final consultation to recommend discharge or refusal at that point.

Kind Regards

Sarah Burrow

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Current working pattern: Monday 8am-2.30pm, Tuesday 8am-5.30pm, Wednesday 8am-5pm, Thursday 8am-5.30pm, Friday 8am-11.30am.

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