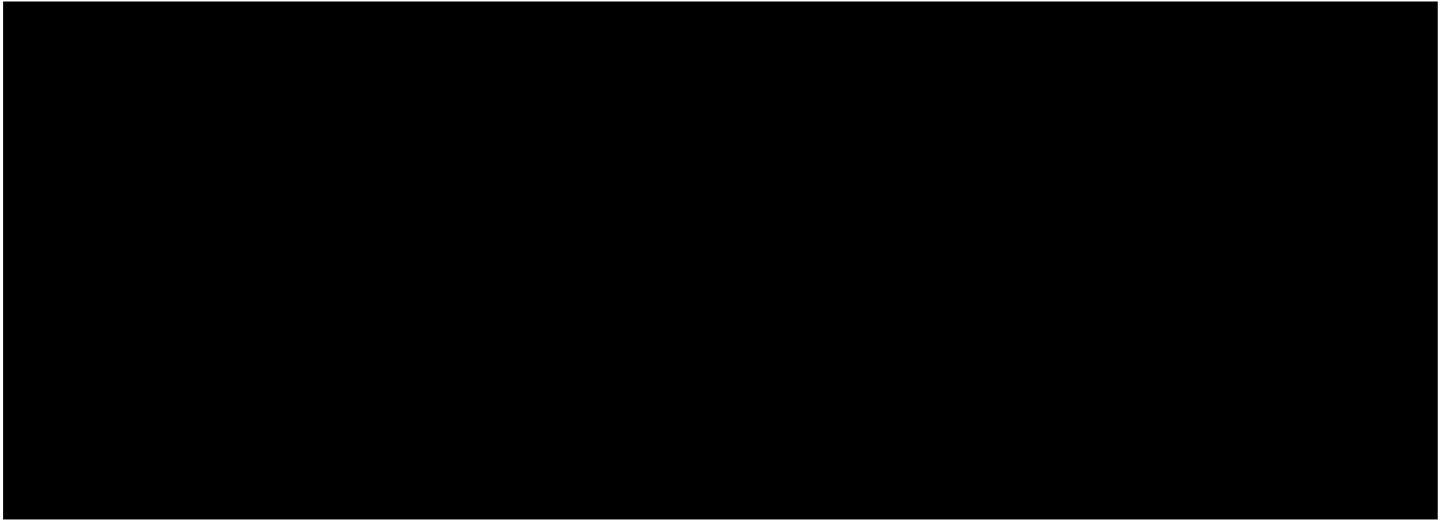


From: Sarah Burrow <Sarah.Burrow@arun.gov.uk>

Sent: 29 January 2020 16:28

To: Chris Slade [REDACTED] Andrew Wood <Andrew.Wood@arun.gov.uk>

Subject: RE: Planning Consultation on A/132/19/DOC

Engineers Comments Regarding Surface Water Drainage

It is recommended that conditions 4 and 7 regarding surface water drainage are discharged. Please ensure that the surface water drainage is constructed in accordance with:

- C1249_100_P5_Drainage Layout
- C1249_200_External Works Layout (for finished levels)
- C1249_300_P5_Drainage Details 1 of 2
- C1249_301_P3_Drainage Details 2 of 2
- C1249 SuDS Report_C

Thank you and kind regards

Sarah Burrow
Engineering Assistant

From: Chris Slade [REDACTED]
Sent: 28 January 2020 16:06
To: Sarah Burrow <Sarah.Burrow@arun.gov.uk>; Andrew Wood <Andrew.Wood@arun.gov.uk>
Cc: 'James Elsey' [REDACTED] Paul Cann <Paul.Cann@arun.gov.uk>; Luke Honeywill [REDACTED]
Subject: RE: Planning Consultation on A/132/19/DOC
Importance: High

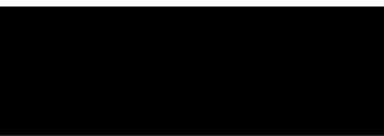
Dear Sarah

Please find attached revised information to clear Conditions 4 and 7. My comments in green.

Condition 6 will be dealt with separately via Paul's email sent last Friday.

Kind regards

Chris Slade **FIHE**
CGS Civils Ltd



Drainage Design | SuDS | Flood Risk Assessments | Highways | External Works

Richard Cobden House | Lion Street | Chichester | West Sussex | PO19 1LW

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From: Sarah Burrow <Sarah.Burrow@arun.gov.uk>
Sent: 24 January 2020 17:30
To: Chris Slade [REDACTED] Andrew Wood <Andrew.Wood@arun.gov.uk>
Cc: 'James Elsey' [REDACTED] Paul Cann <Paul.Cann@arun.gov.uk>
Subject: RE: Planning Consultation on A/132/19/DOC

Hi Andrew/Chris,

I have had the following comments from Paul and Bruce (structures – buoyancy). In RED I don't think we're too far off on Condition 4 and 7.

Condition 4: Surface Water Drainage

1. The information provided about the testing is sparse, however details were confirmed with engineers at time of testing and the proposed method of draining surface water is acceptable. (No Action Required) -- Noted Fine
2. Pre-development run-off rate calculations. The calculations use a SOIL type of 2, when it should be 3 (according to map) – particularly given the conditions experienced on site. This will likely reduce storage volume. (We will accept calculations as submitted but the applicant may wish to adjust). -- Noted and calculations adjusted to suit Fine
3. There should be a manhole/inspection chamber between S3 and S4 where surface water from two units join the network. -- Noted and added Fine
4. Pipe materials need to be covered in notes. -- Noted and added Fine
5. The attenuation tank detail should show one pipe for flows both entering and leaving the tank at the base. A vent pipe is required for the smaller tank. -- Noted and adjusted Fine
6. If there is any risk of heavy vehicles parking over the large attenuation tank then the cover level needs to be 650mm. -- No risk of heavy vehicles here Fine
7. Need a sump manhole detail for S9 and S10. (S10 not currently shown as a catch pit manhole but it is recommended that this is changed as the Hydrobrake does not have a full catch pit only a small sump.) -- Noted and added Fine
8. Buoyancy calculations are required for both tanks – the only mention of these is that they will be covered in a later addition. -- Email from structural engineer attached and 225mm thick slab added The calculations and detail are fine for the larger tank. What about the smaller one? -- This tank passed due to it being one cell high with additional cover material. Calcs attached.
9. Pipe diameter and invert levels are required for S11 to tank -- Noted and added Fine
10. Hydrobrake manhole detail needs more detailing, i.e. Ring diameter, cover type, brickwork etc, similar to type B detail. Pipe diameters on the detail are incorrect -- Noted and adjusted Fine
11. Note 15 on the plan – add D400 required in carriageways (access road) -- Noted and added Fine
12. Junction detail – Square is not permitted, the junction must be oblique and is applicable to pipes of equal diameter or not – Detail removed and note added in notes to reinforce this Please show an oblique connection detail in the drawings -- Detail now shown
13. Detail required for the concrete baffle just beyond S10 -- Noted and added OK, but please specify the height of the baffle on the drawing -- Height of 200mm added
14. Permeable pavements – specify finished levels/base (formation) levels on plan -- Adding these levels congests the drawing so we have chosen not to add it to ensure clarity. The contractor can calculate formation levels based off of the finished levels and construction detail which confirms depth of construction Finished levels are needed to show that the fin drains are in the correct locations -- Finished levels drawing attached to confirm.
15. Detail required for proposed land drains – some plots don't have one, amend to help with run off from patios. -- Detail added. We had chosen land drains for just the plots that cut into existing levels. We have however now shown for each plot. Fine

Condition 6: Flows to Watercourses

1. Land drainage consent for culverting the outfall has been applied for, we are awaiting reply to an e-mail dated 23/10/2019 from Paul Cann to Luke Honeywill. Have paid fees since but not responded to the points raised. This could affect condition 4 and needs to be addressed -- This has been sent directly to Paul Cann for review There are issues still outstanding on this -- This is being dealt with separately

Condition 7: SuDS System Maintenance

1. The manual needs information on how the maintenance and replacement of the features will be funded. (How will the maintenance company be funded?) Done
2. Plus what will happen if the management company fails to carry out duties or has insufficient funds to do so. Done
3. Please specifically reference the Hydrobrake and catch pits and the specific maintenance required to those. Done

4. Include the ditch and culvert under the access road and the outlet headwall. More work to do on the ditch maintenance as per my previous e-mail – Additional information added

Sarah Burrow
Engineering Assistant

From: Chris Slade [REDACTED]
Sent: 24 January 2020 14:13
To: Sarah Burrow <Sarah.Burrow@arun.gov.uk>; Andrew Wood <Andrew.Wood@arun.gov.uk>
Cc: 'James Elsey' [REDACTED]; Paul Cann <Paul.Cann@arun.gov.uk>
Subject: RE: Planning Consultation on A/132/19/DOC

Hi Paul

Further to the below email chain, can you confirm where we are with the remining comments?

Thanks

Chris Slade **FIHE**
CGS Civils Ltd



Drainage Design | SuDS | Flood Risk Assessments | Highways | External Works

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From: Sarah Burrow <Sarah.Burrow@arun.gov.uk>
Sent: 21 January 2020 15:57
To: Chris Slade [REDACTED]; Andrew Wood <Andrew.Wood@arun.gov.uk>
Cc: 'James Elsey' [REDACTED]; Paul Cann <Paul.Cann@arun.gov.uk>
Subject: RE: Planning Consultation on A/132/19/DOC

Hi Chris,

I have taken a look at the updated maintenance manual and the section on the Drainage Ditch (using the maintenance requirements of a swale) is not appropriate. The two are quite different, particularly with regards to vegetation, silt and habitat.

I have attached two documents which may help you to adjust this section. One from the Environment Agency and one that we issue to local landowners.

I have no issue with the other areas.

Most of the points raised for condition 4 are fine, but Paul needs to check a couple of areas. It's not ready to be signed off but nearly there. I'll wait for him to look it over before I confirm the details.

Sarah Burrow
Engineering Assistant

From: Chris Slade [REDACTED]
Sent: 21 January 2020 14:26
To: Andrew Wood <Andrew.Wood@arun.gov.uk>
Cc: Sarah Burrow <Sarah.Burrow@arun.gov.uk>; 'James Elsey' [REDACTED]
Subject: RE: Planning Consultation on A/132/19/DOC

Hi Andrew

Please find attached revised SuDS report to deal with the comments on Condition 7.

All information pertaining to Conditions 4, 6 and 7 has now been submitted.

Kind regards

Chris Slade **FIHE**
CGS Civils Ltd



Drainage Design | SuDS | Flood Risk Assessments | Highways | External Works

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From: Chris Slade
Sent: 20 January 2020 17:20
To: Andrew Wood <Andrew.Wood@arun.gov.uk>
Cc: Sarah Burrow <Sarah.Burrow@arun.gov.uk>; 'James Elsey' [REDACTED]
Subject: RE: Planning Consultation on A/132/19/DOC

Hi Andrew

Please find revised drawings and details attached in response to Sarah's comments (Specifically Condition 6). Our responses are in blue for ease of reference. The report for Condition 7 will be issued Tuesday morning. We are just awaiting some information from a manufacturer before we can finalise.

kind regards

Chris Slade **FIHE**
CGS Civils Ltd



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From: Andrew Wood <Andrew.Wood@arun.gov.uk>
Sent: 10 January 2020 09:42
To: James Elsey [REDACTED]
Subject: FW: Planning Consultation on A/132/19/DOC

James,

Please see below an additional request for information relating to A/132/19/DOC can you please communicate with your drainage engineers and request that they deal with the matter asap in order that the pre-commencement conditions can be discharged.

Thank you,

Andrew Wood

Andrew Wood MRTPI | Senior Planning Officer, Planning Department, Arun District Council |
Location: 1st Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF
Internal: 37768 | External: +44 (0) 1903 737768 | E-mail: andrew.wood@arun.gov.uk

Visit Arun's web site at www.arun.gov.uk



Save the environment - think before you print.

From: Sarah Burrow <Sarah.Burrow@arun.gov.uk>
Sent: 10 January 2020 09:17
To: Andrew Wood <Andrew.Wood@arun.gov.uk>

Engineers Comments Regarding Surface Water Drainage

At this stage we are not able to recommend that the relevant conditions are discharged we have the following comments regarding each condition.

Condition 4: Surface Water Drainage

1. The information provided about the testing is sparse, however details were confirmed with engineers at time of testing and the proposed method of draining surface water is acceptable. (No Action Required) --- Noted
2. Pre-development run-off rate calculations. The calculations use a SOIL type of 2, when it should be 3 (according to map) – particularly given the conditions experienced on site. This will likely reduce storage volume. (We will accept calculations as submitted but the applicant may wish to adjust). --- Noted and calculations adjusted to suit
3. There should be a manhole/inspection chamber between S3 and S4 where surface water from two units join the network. --- Noted and added
4. Pipe materials need to be covered in notes. --- Noted and added
5. The attenuation tank detail should show one pipe for flows both entering and leaving the tank at the base. A vent pipe is required for the smaller tank. --- Noted and adjusted
6. If there is any risk of heavy vehicles parking over the large attenuation tank then the cover level needs to be 650mm. --- No risk of heavy vehicles here
7. Need a sump manhole detail for S9 and S10. (S10 not currently shown as a catch pit manhole but it is recommended that this is changed as the Hydrobrake does not have a full catch pit only a small sump.) --- Noted and added
8. Buoyancy calculations are required for both tanks – the only mention of these is that they will be covered in a later addition. --- Email from structural engineer attached and 225mm thick slab added
9. Pipe diameter and invert levels are required for S11 to tank --- Noted and added
10. Hydrobrake manhole detail needs more detailing, i.e. Ring diameter, cover type, brickwork etc, similar to type B detail. Pipe diameters on the detail are incorrect --- Noted and adjusted
11. Note 15 on the plan – add D400 required in carriageways (access road) --- Noted and added
12. Junction detail – Square is not permitted, the junction must be oblique and is applicable to pipes of equal diameter or not – Detail removed and note added in notes to reinforce this
13. Detail required for the concrete baffle just beyond S10 --- Noted and added
14. Permeable pavements – specify finished levels/base (formation) levels on plan --- Adding these levels congests the drawing so we have chosen not to add it to ensure clarity. The contractor can calculate formation levels based off of the finished levels and construction detail which confirms depth of construction
15. Detail required for proposed land drains – some plots don't have one, amend to help with run off from patios. --- Detail added. We had chosen land drains for just the plots that cut into existing levels. We have however now shown for each plot.

Condition 6: Flows to Watercourses

1. Land drainage consent for culverting the outfall has been applied for, we are awaiting reply to an e-mail dated 23/10/2019 from Paul Cann to Luke Honeywill. Have paid fees since but not responded to the points raised. This could affect condition 4 and needs to be addressed --- This has been sent directly to Paul Cann for review

Condition 7: SuDS System Maintenance --- To be issued Tuesday 21st

1. The manual needs information on how the maintenance and replacement of the features will be funded. (How will the maintenance company be funded?)
2. Plus what will happen if the management company fails to carry out duties or has insufficient funds to do so.

3. Please specifically reference the Hydrobrake and catch pits and the specific maintenance required to those.
4. Include the ditch and culvert under the access road and the outlet headwall.

Kind Regards

Sarah Burrow
Engineering Assistant

Paul Cann
Principle Drainage Engineer

From: Andrew Wood <Andrew.Wood@arun.gov.uk>
Sent: 04 December 2019 11:15
To: Sarah Burrow <Sarah.Burrow@arun.gov.uk>
Subject: FW: Planning Consultation on A/132/19/DOC

Comments please.

Thank you,

Andrew Wood

Andrew Wood MRTPI | Senior Planning Officer, Planning Department, Arun District Council |
Location: 1st Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF
Internal: 37768 | External: +44 (0) 1903 737768 | E-mail: andrew.wood@arun.gov.uk

Visit Arun's web site at www.arun.gov.uk



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From: Chris Slade [REDACTED]
Sent: 04 December 2019 10:55
To: Andrew Wood <Andrew.Wood@arun.gov.uk>
Cc: Sarah Burrow <Sarah.Burrow@arun.gov.uk>; James Elsey [REDACTED] Dean
Muggeridge [REDACTED]
Subject: RE: Planning Consultation on A/132/19/DOC

Dear Andrew

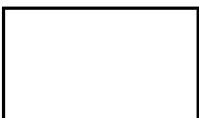
Please find attached revised drainage design package issued for approval following on from the winter testing.

I trust that all is in order and look forward to your response.

Please do not hesitate to ask if you require any further information or clarification.

Kind regards

Chris Slade **FIHE**
CGS Civils Ltd



Drainage Design | SuDS | Flood Risk Assessments | Highways | External Works

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From: Andrew Wood <Andrew.Wood@arun.gov.uk>

Sent: 16 October 2019 15:30

To: Chris Slade [REDACTED]

Subject: RE: Planning Consultation on A/132/19/DOC

Chris ,

I would advise that you need to do the full winter groundwater monitoring results to be submitted. And infiltration tests must be completed three times and then re-submit in April.

Laura is in until Friday then the new engineer taking over will be sarah.burrows@arun.gov.uk as of Monday 21st October.

Thank you,

Andrew Wood

Andrew Wood MRTPI | Senior Planning Officer, Planning Department, Arun District Council |
Location: 1st Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF
Internal: 37768 | External: +44 (0) 1903 737768 | E-mail: andrew.wood@arun.gov.uk

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From: Chris Slade [REDACTED]

Sent: 16 October 2019 11:15

To: Andrew Wood <Andrew.Wood@arun.gov.uk>

Cc: James Elsey [REDACTED]

Subject: Re: Planning Consultation on A/132/19/DOC

Hi Andrew

Ok many thanks. Do you have details of the engineer taking over?

Thanks

Chris

Sent from my Samsung Galaxy smartphone.

----- Original message -----

From: Andrew Wood <Andrew.Wood@arun.gov.uk>

Date: 16/10/2019 11:09 (GMT+00:00)

To: Chris Slade [REDACTED]

Subject: RE: Planning Consultation on A/132/19/DOC

I would note Laura is leaving the authority tomorrow so please provide information as requested for the new engineer.

Thank you,

Andrew Wood

Andrew Wood MRTPI | Senior Planning Officer, Planning Department, Arun District Council |
Location: 1st Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF
Internal: 37768 | External: +44 (0) 1903 737768 | E-mail: andrew.wood@arun.gov.uk

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From: Chris Slade [REDACTED]
Sent: 15 October 2019 16:18
To: Andrew Wood <Andrew.Wood@arun.gov.uk>
Cc: James Elsey [REDACTED]
Subject: RE: Planning Consultation on A/132/19/DOC

Hi Andrew

Thank you for your email. We will discuss with Laura.

Kind regards

Chris Slade **FIHE**
CGS Civils Ltd



Drainage Design | SuDS | Flood Risk Assessments | Highways | External Works

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From: Andrew Wood <Andrew.Wood@arun.gov.uk>
Sent: 15 October 2019 16:00
To: Chris Slade [REDACTED]
Cc: James Elsey [REDACTED]
Subject: FW: Planning Consultation on A/132/19/DOC

Please provide information as requested below.

Thank you,

Andrew Wood

Andrew Wood MRTPI | Senior Planning Officer, Planning Department, Arun District Council |
Location: 1st Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF
Internal: 37768 | External: +44 (0) 1903 737768 | E-mail: andrew.wood@arun.gov.uk

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From: Laura Gibbons <Laura.Gibbons@arun.gov.uk>

Sent: 15 October 2019 15:56

To: Andrew Wood <Andrew.Wood@arun.gov.uk>

Subject: RE: Planning Consultation on A/132/19/DOC

Hi Andrew,

We require full winter groundwater monitoring results to be submitted. And infiltration tests must be completed three times.

I would advise the applicant comes back to us in April and complies with this pre-commencement condition.

Thanks,

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

[Laura Gibbons](mailto:Laura.Gibbons@arun.gov.uk) | Engineer (Drainage & Coastal), Engineering Services, Arun District Council | Location: First Floor, Arun Civic Centre,
Maltravers Road, Littlehampton, BN17 5LF

Internal: 37818 | External: +44 (0) 1903 737818 | Fax: +44 (0) 1903 716018 | E-mail: laura.gibbons@arun.gov.uk

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From: Chris Slade [REDACTED]

Sent: 14 October 2019 13:33

To: Andrew Wood <Andrew.Wood@arun.gov.uk>

Cc: Laura Gibbons <Laura.Gibbons@arun.gov.uk>; James Elsey <[REDACTED]>; Dean
Muggeridge [REDACTED]

Subject: Re: Planning Consultation on A/132/19/DOC

Dear Andrew

Thank you for your email. As the Consulting Engineers, it has been passed onto us for a response.

I attach an extract from the geotechnical report indicating the soakaway test results and the first recordings of the ground water monitoring which began at the start of the month.

Due to time restrictions on site during the geotechnical testing, the geotechnical engineers only managed to perform one test for all three trial pits. Only TP1 drained fully with TP2 and TP3 being extrapolated. The results from TP1 was satisfactory however TP2 and TP3 were poor and should full testing have been carried out all results would have been poorer during the third test. Therefore, a full infiltration solution

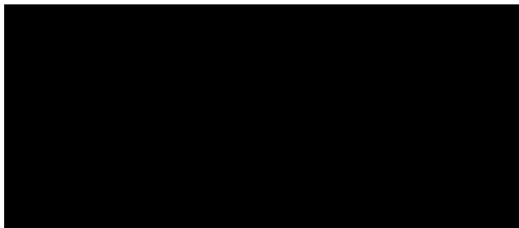
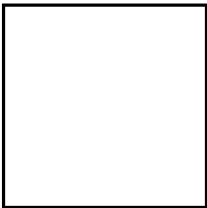
was discounted in favour of a hybrid solution i.e. partial discharge and infiltrating porous surfaces. This seems to be the most pragmatic approach given the varied geology.

The geotechnical Engineer working on this scheme also worked on the adjacent site and noted water levels rose to around 0.5m below ground level during peak GW levels. It is therefore anticipated that the groundwater will rise considerably higher than what is shown.

Kind regards

Chris Slade **FIHE**

CGS Civils Ltd



Drainage Design | SuDS | Flood Risk Assessments | Highways | External Works

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From: Andrew Wood <Andrew.Wood@arun.gov.uk>
Sent: 14 October 2019 11:55
To: James Elsey [REDACTED]
Cc: Planning.Responses <Planning.Responses@arun.gov.uk>
Subject: FW: Planning Consultation on A/132/19/DOC

Can you please provide the following information as requested by the Drainage Engineers in the email below.

Thank you,

Andrew Wood

Andrew Wood MRTPI | Senior Planning Officer, Planning Department, Arun District Council |
Location: 1st Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF
Internal: 37768 | External: +44 (0) 1903 737768 | E-mail: andrew.wood@arun.gov.uk

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From: Laura Gibbons <Laura.Gibbons@arun.gov.uk>

Sent: 14 October 2019 11:29

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

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

Subject: RE: Planning Consultation on A/132/19/DOC

Engineers Comments Regarding Condition 4

No winter groundwater monitoring or infiltration testing results have been submitted. It is not appropriate to review the surface water drainage strategy without this information.

Engineers Comments Regarding Condition 6

It is not possible to review the proposed flows to watercourse until it has been proven if infiltration is viable or not.

Engineers Comments Regarding Condition 7

It is not appropriate to review maintenance arrangements until the surface water drainage strategy is agreed.

Please re-consult us once winter ground water monitoring and winter infiltration testing has been completed and results are provided. Please note, that this information may not be available until April after the winter monitoring period has ended.

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

Internal: 37818 | External: +44 (0) 1903 737818 | Fax: +44 (0) 1903 716018 | E-mail: laura.gibbons@arun.gov.uk

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From: planning.responses@arun.gov.uk <planning.responses@arun.gov.uk>

Sent: 30 September 2019 13:51

To: Land Drainage <Land.Drainage@arun.gov.uk>

Subject: Planning Consultation on A/132/19/DOC

To: Engineers (Drainage)

NOTIFICATION FROM ARUN DISTRICT COUNCIL

TOWN AND COUNTRY PLANNING ACT 1990

APPLICATION NO: A/132/19/DOC

Registered: 30-SEP-19

Site Address: Merry England Nursery Dappers Lane Angmering BN16 4EN

Description of Works: Approval of details reserved by condition imposed under ref A/142/16/OUT relating to Condition Nos 4 - surface water drainage, 6 - flows to watercourses, 7 - SuDs system, maintenance of any watercourse, 11 - Construction Management Plan, 12 - road safety audit, 14 - ecological, 17 - tree protection and 21 contamination.

The Council have received the above application to discharge conditions. I shall be pleased to receive any observations you may wish to make in respect of those conditions relating to your field of expertise.

[Click here to view the Discharge of Condition application](#)

[Click here to view conditions on original application - click on decision tab](#)

Should you have any comments to make, these should be sent [by replying to this email](#) by 14th October 2019.

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

Thanking you in anticipation

Planning Case Officer
Arun District Council

post_con_email

<http://www.arun.gov.uk>

DX 57406 Littlehampton

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