

[REDACTED]

From: Kazys Narbutas Consulting [REDACTED]

Sent: 05 September 2019 16:41

To: Anita Gardner <Anita.Gardner@arun.gov.uk>

Cc: Laura Gibbons <Laura.Gibbons@arun.gov.uk>; Matthew Utting [REDACTED] 'Kevin Wawman'

[REDACTED] Paul Spratt [REDACTED] Ian Sellar [REDACTED]

Subject: FW: Mayflower Way, Angmering: Planning Consultation A/46/19/PL; Drainage Submission

Anita

Matthew Utting asked me to forward my recent e-mail regarding the submission of drainage information I recently sent to Laura Gibbons so you will be aware of it.

Regards

Kazys

Kazys Narbutas

From: Kazys Narbutas Consulting

Sent: 05 September 2019 15:57

To: 'Matthew Utting'

Cc: 'Kevin Wawman' 'Paul Spratt' 'Ian Sellar'

Subject: Mayflower Way, Angmering: Planning Consultation A/46/19/PL; Drainage Submission

Matt

Following on from our conversation and the update.

Regarding Laura's comments I have used them as the basis for my submission, and you will have seen from my e-mail to her that there are certain areas that need to be discussed and which I have highlighted to her.

I have tried contacting her for the last few days, but she hasn't responded to me, which is most unlike her, to discuss my submission. I will continue to try and make contact and advise you and the rest of the team on her reaction.

Regards

Kazys

Kazys Narbutas

From: kazys

Sent: 02 September 2019 02:00

To: 'Laura Gibbons' <Laura.Gibbons@arun.gov.uk>

Cc: 'Kevin Wawman' 'Ian Sellar' 'Matthew Utting' 'Paul Spratt'

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Subject: Mayflower Way, Angmering: Planning Consultation A/46/19/PL

Laura

Crayfern have passed over your drainage planning comments, dated 22nd July, for the above site, apologies for the delay in responding.

I am attaching further information that should hopefully enable you to advise your planning colleague that the works and information required have been submitted to you and it will not be necessary to apply the conditions you suggested.

I believe you are in receipt of the groundwater monitoring results that showed water was only present in two readings at a depth of 3.84 in one well. I therefore believe that groundwater is not an issue on this site. For your information I attach a copy of these results

In order to assess the suitability of infiltration methods as the means of surface water disposal, tests to BRE365 were undertaken on 4th March this year at depths that it was proposed to construct the domestic soakaways and utilise sub-base construction for draining drives and access roads. Attached are the results of the tests as undertaken by Soils Ltd. The results have been transposed to the attached drawing ES1539-500-00 and the site divided as shown in order to assist with the design of the infiltration proposals.

I have produced a detailed drainage strategy and this information can be seen on the attached drawing ES1539-502- Using the figures obtained for the shallow infiltration tests we were unable to achieve a satisfactory design for the domestic drives and access road, using a FoS of 5, 24hour half drain times were not achievable. This could only be achieved

with a FoS of 3 on the Shallow Zone 2 (SZ2) areas. Unless you are willing to accept a FoS of 3 on the drives in SZ2, (these are Plots 1-7 & 23-24) I feel that the drives will have to drain to domestic soakaways in the rear gardens. Unfortunately I cannot see an alternative solution to draining Ch0-30 of the access road to that which I have proposed.

This area has been designed with a FoS of 3 and is just slightly above the 24hours half drain time.

Shallow Zone 1 (SZ1) has a lower infiltration rate than SZ2 and a half drain time was not achievable even with a Fos of 1. I feel the only option for drives and the sections of access road in this zone is to drain them to domestic soakaways In the rear gardens of Plots 8,9 &10.

The low infiltration rate achieved on the eastern side of the site has necessitated a long narrow soakaway to serve the roof drainage for Plots 18-24. Things to note here are that the soakaway extends slightly deeper than the trial pit tests, although I feel the slope of the site should be regarded as a mitigating factor. I could only achieve a FoS of 2 in this location and that was in conjunction with including the soakaway base in calculations.

Utilising these results we have prepared MicrDrainage calculations substantiating the proposed design and a full set of these calculations are included with this submission. To help your assessment I have produced a tabulation on the drainage drawing that gives all the information on the soakaways.

I have also attached a *SuDS Operations and Maintenance Manual* for the site together with a *Water Quality Management Manual*.

Hopefully you will find the proposed designs to be acceptable given the limitations we are faced with, please give me a call

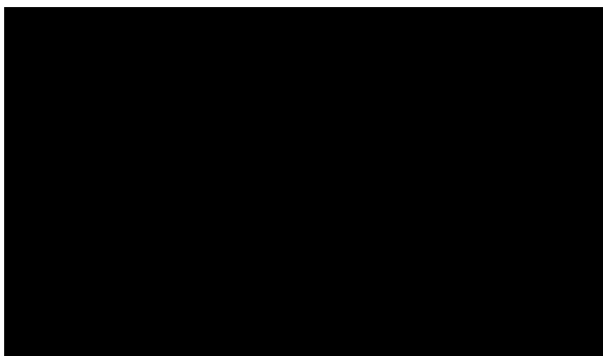
To discuss the proposals or if necessary I will arrange a meeting with you to discuss the proposals.

Many thanks.

Regards

Kazys

Kazys Narbutas



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