

Arun District Council, Civic Centre, Maltravers Rd, Littlehampton, West Sussex, BN17 5LF

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From: Bojidar Boiadjiev [REDACTED]

Sent: 19 August 2021 10:07

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

Subject: FW: RE: Y/88/21/DOC

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Hi Laura,

Further to my email below, we have been made aware that:

"if the comments with an approval comes from Drainage Engineers on 20/08/21, your application will be approved. If the further information are required, your application would be refused and you will need to make a revised submission."

With this in mind, would this be something you could have a look at your earliest convenience?

Kind regards,

Bojidar Boiadjiev, MEng (Hons) | Senior Drainage Engineer
Ambiental, Science Park Square, Brighton, BN1 9SB, UK

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Please note our Ambiental email accounts have been migrated to RoyalHaskoningDHV (RHDHV). We are still able to receive emails to our Ambiental email but encourage use of the new RHDHV email addresses, thank you for your co-operation.

From: Bojidar Boiadjiev

Sent: 17 August 2021 16:25

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

Cc: Maria Tomalova <Maria.Tomalova@arun.gov.uk>; 'Laura Bourke'

Subject: RE: Y/88/21/DOC [Filed 17 Aug 2021 16:25]

Dear Laura,

Thank you very much for your time on the phone just now.

As discussed, we would propose the permeable pavement to be lined to alleviate concerns related with groundwater and the proposed drainage network.

On the point regarding the surface water runoff destination, as discussed we have two options:

- As per our original proposals, the surface water runoff could be attenuated in the sub-base of the permeable pavement via a small orifice and pumped towards the existing reservoir on site. The client has confirmed that the existing reservoir has a volume of 14,000m³. To put that in the perspective of the site, the proposed connection into the reservoir would manage an approximate catchment area of 500m². Considering a 100mm rainfall event (which is equivalent to the total rainfall resulting from a 100yr+40%CC 6 hour storm event), the total volume expected to discharge to the reservoir through the proposed connection during this storm event would be 50m³, equivalent to 0.4% of the reservoir volume. The client has confirmed that they use approximately 3,000m³ of water each week averaged through the whole year. It is the client's preference to allow more water to flow in the reservoir because (in their words) "Our water usage and needs actually out weigh the availability of rainwater, some years we simply never have enough rainwater, so we are using alternative sources". However, the client is also keen to resolve the matters as quickly as possible and as such it would be prudent to point out that there is an alternative option for the discharge of surface water, detailed below.

- The attached extended topographic survey indicates that there is an open section of the ditch running south of Lake Lane to which a gravity connection from the site appears to be feasible. A connection into this ditch may be the alternative option for the connection from the site. This option is more sustainable from the perspective that a gravity connection would be used but is inferior to the primary option above from the perspective that rainwater harvesting benefits would not be delivered.

Further to our discussion over the phone, could you please confirm which of the two options is the LLFA preference. Your response at your earliest convenience would be greatly appreciated as the client would like to proceed with the works while the weather is favourable.

Kind regards,

Bojidar Boiadjiev, MEng (Hons) | Senior Drainage Engineer
Ambiental, Science Park Square, Brighton, BN1 9SB, UK



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

Sent: 10 August 2021 14:27

To: Bojidar Boiadjiev 

Cc: Maria Tomalova <Maria.Tomalova@arun.gov.uk>

Subject: FW: Y/88/21/DOC

Hi Bojidar,

I am available next Tuesday pm for a telephone conversation regarding this site if that would be convenient. Otherwise please feel free to email me directly with any questions you may have.

Kind regards,

Laura Gibbons

Drainage Engineer

Engineering Services

Please note that I work Tuesdays 08:00-16:00 for Arun only.



T: 01903 221374

E: laura.gibbons@arun.gov.uk [REDACTED]

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From: Maria Tomalova <Maria.Tomalova@arun.gov.uk>

Sent: 09 August 2021 16:41

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

Subject: FW: Y/88/21/DOC

Dear Laura,

Please see below the request with regards to the consultation on the above application.

Kind regards

Maria

Maria Tomalova
Senior Planning Officer
Directorate of Place



T: 01903 737510

E: maria.tomalova@arun.gov.uk

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From: Bojidar Boiadjiev [REDACTED]

Sent: 09 August 2021 16:35

To: Maria Tomalova <Maria.Tomalova@arun.gov.uk>

[REDACTED]
Subject: Y/88/21/DOC

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Dear Maria,

Further to the LLFA comments below, we would like to arrange a telephone conversation with Laura Gibbons in order to agree the approach we are taking for the surface water drainage for the site.
Could you please assist us with this as I don't think I have Laura Gibbons direct email address.

Kind regards,

Bojidar Boiadjiev, MEng (Hons) | Senior Drainage Engineer

Ambiental, Science Park Square, Brighton, BN1 9SB, UK

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From: Maria Tomalova <Maria.Tomalova@arun.gov.uk>

Date: Tuesday, 13 July 2021 at 19:20

To: Laura Bourke

Subject: Y/88/21/DOC

Dear Laura,

Please see below the comments of our Drainage Officer.

Condition 5

1. The applicant has completed summer infiltration testing which indicate infiltration is not viable.
2. No winter groundwater monitoring results have been provided, this information must be supplied to evidence that groundwater will not get into the surface water drainage system.
3. The proposal is for an unlined system to be pumped. This could in winter result in groundwater being pumped.
4. Pumping is not supported, it is not a sustainable solution. Pumps also fail and can result in increased flood risk both on and off site. The applicant must submit a revised gravity scheme.
5. The proposals are to pump surface water to the on site reservoir. The statement claims that no surface water will be discharged off site. No evidence has been submitted to evidence that either the existing surface water drainage network or reservoir have the capacity to accept these additional flows. The reservoir must also have an overflow to somewhere for water to be discharged in times of exceptional rainfall when irrigation demands are less, i.e. the winter. Therefore the statements provided are not supported by ourselves.

Condition 6

It is not possible for us to recommend discharge of this condition at this time with the strategy presented. A fully revised surface water drainage design is required, which may involve a gravity outfall to watercourse.

Given the above points and the current proposals failures to meet policy requirements we recommend that this application is refused.

Kind regards

Maria

Maria Tomalova
Senior Planning Officer
Directorate of Place



T: 01903 737510
E: maria.tomalova@arun.gov.uk

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