From: Tedridge, Louise <Louise.Tedridge@wsp.com>
Sent: 26 July 2024 14:11:07 UTC+01:00
To: "Josh Foreman - CAAD Ltd" <josh.foreman@caad.online>
Cc: "'Peter Barnett'" <peter.barnett@adur-worthing.gov.uk>
Subject: RE: AWDM/1583/23 - The Barn Caravan Park Old Salts Farm Road Lancing

Good afternoon,

Thank you for the updated information. I can confirm the provided information is sufficient for the discharge of Condition 6.

Many thanks,

Louise Tedridge
Graduate Consultant – Water Risk Management
BSc (Hons)
She/her

WSP in the UK
Matrix House, Basing View
Basingstoke
RG21 4FF

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From: Josh Foreman - CAAD Ltd <josh.foreman@caad.online>
Sent: Friday, July 19, 2024 3:54 PM
To: Tedridge, Louise <Louise.Tedridge@wsp.com>
Cc: Peter Barnett <peter.barnett@adur-worthing.gov.uk>
Subject: Re: AWDM/1583/23 - The Barn Caravan Park Old Salts Farm Road Lancing

Hi Louise,

Following on from my last email I have now had a attenuation tank calculation produced based using the 45% allowance.

Please therefor find attached the updated drawing and calculation.

Kind Regards,

Josh

--

Josh Foreman BA (Hons) MCIAT
Director | Chartered Architectural Technologist

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On Wed, 17 Jul 2024 at 15:19, Josh Foreman - CAAD Ltd <josh.foreman@caad.online> wrote:

> Good Afternoon Louise,
>
> Please accept my apologies, I believe I attached an outdated site plan in my email to you. Please find attached drawing 23015_103C.
>
> We are looking into having the calculation amended to reflect a 45% allowance for climate change. Frustratingly the software we used maxes out at 40%. Would it be acceptable to increase the volume by say 3 crates to compensate?
>
> Kind Regards,
>
> Josh
>
> --
>
> **Josh Foreman** BA (Hons) MCIAT
> Director | Chartered Architectural Technologist
>
> ***Check out our new website at www.caad.online***

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On Mon, 1 Jul 2024 at 11:04, Tedridge, Louise <Louise.Tedridge@wsp.com> wrote:

> Good morning Josh,
>
> Unfortunately, the provided drainage strategy still details the proposed use of a soakaway and not an attenuation basin. There also appears to be no discharge restriction on the overflow pipe to the stream to ensure flows discharge at a rate of, no more than, 1l/s. Without this, there will be an increase in runoff rates from the site as a result of the development and therefore an increase in flood risk. Finally, as detailed in DEFRA's Climate Change Allowances, the provided calculations should include a 45% allowance for climate change.
>
> Therefore, we would not recommend the discharge of condition until the following updated information is received:
> • An updated drainage drawing detailing the use of an attenuation tank and hydrobrake.
> • Updated calculations using a 45% allowance for climate change.
>
> Many thanks,

Louise Tedridge
Graduate Consultant – Water Risk Management
BSc (Hons)
She/her

WSP in the UK
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From: Josh Foreman - CAAD Ltd <josh.foreman@caad.online>
Sent: Tuesday, June 18, 2024 12:32 PM
To: Tedridge, Louise <Louise.Tedridge@wsp.com>
Cc: Peter Barnett <peter.barnett@adur-worthing.gov.uk>
Subject: Re: AWDM/1583/23 - The Barn Caravan Park Old Salts Farm Road Lancing

Hi Louise,

Thank you for this.

Please find attached updated drawings and calculations.

Please let me know if you require any further information.

Kind Regards,

Josh

--

Josh Foreman BA (Hons) MCIAT
Director | Chartered Architectural Technologist

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On Tue, 28 May 2024 at 10:24, Tedridge, Louise <Louise.Tedridge@wsp.com> wrote:

> Good morning Josh,
>
> Thank you for your email.
>
> The attached drainage scheme still details use of a soakaway. Please can we request an updated drainage drawing that includes the use of an attenuation tank that discharges to the stream at the greenfield runoff rate for the site. Furthermore, calculations are required to demonstrate the proposed drainage scheme will not cause flooding up to and including the 1 in 100-year storm with a 45% allowance for climate change.
>
> Many thanks,

Louise Tedridge
Graduate Consultant – Water Risk Management
BSc (Hons)
She/her

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From: Josh Foreman - CAAD Ltd <josh.foreman@caad.online>
Sent: Thursday, May 9, 2024 12:19 PM
To: Tedridge, Louise <Louise.Tedridge@wsp.com>
Cc: Peter Barnett <peter.barnett@adur-worthing.gov.uk>
Subject: Re: AWDM/1583/23 - The Barn Caravan Park Old Salts Farm Road Lancing

Hi Louise,

Thank you for your email and detailed response.

With that in mind we would like to proceed with the attached scheme, as per your recommendation.

I trust this now satisfies the condition.

Kind Regards,

Josh Foreman BA (Hons) MCIAT
Director | Chartered Architectural Technologist

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On Mon, 22 Apr 2024 at 16:38, Tedridge, Louise <Louise.Tedridge@wsp.com> wrote:

> Good afternoon Josh,
>
> As detailed within the attached report, the highest groundwater levels were recorded at 0.69mbgl and you are proposing a soakaway at 0.8mbgl. Unfortunately, this is not acceptable because there must be a 1m clearance between the highest recorded groundwater levels and the base of the proposed soakaway. We would recommend following the SuDS hierarchy of preference (as stated within Condition 6) without the use of infiltration, for example the use of an attenuation tank that discharges to a watercourse or existing surface water sewer network as close as reasonably practicable to greenfield runoff rates.
>
> Many thanks,

Louise Tedridge
Graduate Consultant – Water Risk Management
BSc (Hons)
She/her

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From: Josh Foreman - CAAD Ltd <josh.foreman@caad.online>
Sent: Monday, April 15, 2024 10:20 AM
To: Tedridge, Louise <Louise.Tedridge@wsp.com>; Boakye, Nicole <Nicole.Boakye@wsp.com>; Joe Pannell <thebarncaravanpark@googlemail.com>
Subject: Re: AWDM/1583/23 - The Barn Caravan Park Old Salts Farm Road Lancing

Good Morning Louise, Nicole,

Thanks again for your help with the project above. We have now had the groundwater monitoring carried out, which I am attaching to this email.

In the summary section, the report states: '*It is likely that, without penetrating the shelly horizon, groundwater would not be encountered in the top two metres of the site.*'

With this in mind, we would propose to continue with our original specification of 8 aqaucell crate + 50% (12 Crates total), installed in a single shallow layer on the site.

Please could you confirm whether this would be acceptable to you?

Kind Regards,

Josh Foreman BA (Hons) CIAT Affiliate
Director | Architectural Technologist

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On Thu, 25 Jan 2024 at 11:52, Josh Foreman - CAAD Ltd <josh.foreman@caad.online> wrote:

> Hi Nicole,
>
> Thank you very much for your response which great to hear.
>
> Kind Regards,
>
> Josh

Josh Foreman ACIAT
Architectural Technologist

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The Old Bakery, 34 North Street, Havant, PO9 1PT

On Thu, 25 Jan 2024 at 09:28, Boakye, Nicole <Nicole.Boakye@wsp.com> wrote:

> Hi Josh,
>
> I've had a look at the fee proposal / scope of works as Louise is now on leave until next week. This all looks fine to me, we will be happy to review the results of the groundwater monitoring once it is complete.
>
> Many thanks,
> Nicole

Nicole Boakye

Senior Consultant, Water Strategic Advisory, WEE&E
MCIWEM C.WEM
Pronouns: she / her

Vice Chair to CREED (Championing Racial Equality and Ethnic Diversity at WSP UK)

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From: Josh Foreman - CAAD Ltd <josh.foreman@caad.online>
Sent: Wednesday, January 24, 2024 3:28 PM
To: Tedridge, Louise <Louise.Tedridge@wsp.com>
Cc: Joe Pannell <thebarncaravanpark@googlemail.com>; david.walker@h2ogeo.co.uk
Subject: Re: AWDM/1583/23 - The Barn Caravan Park Old Salts Farm Road Lancing

Thank you Louise,

We have instructed David Walker at H20geo (cc'd) to carry out the groundwater monitoring.

I have attached the fee proposal with the scope of works included, which I trust will be satisfactory.

I will go back to Peter at Arun DC to advice that the groundwater monitoring is being carried out and that the information will be sent over when available.

Kind Regards,

Josh

Josh Foreman ACIAT
Architectural Technologist

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On Wed, 24 Jan 2024 at 11:46, Tedridge, Louise <Louise.Tedridge@wsp.com> wrote:

> Hi Josh,
>
> Ideally groundwater monitoring would take place for 12 months prior to development. The 12-month period would include at least one seasonally high groundwater level event (most likely to be between January and March). However, monitoring for 12 months may not be possible - we recommend professional judgement will be required to determine if conditions during the monitoring would show a representative seasonally high groundwater levels to support the proposals of infiltration.
>
> Kind regards,

Louise Tedridge
Graduate Consultant – Water Risk Management
BSc (Hons)
She/her

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From: Josh Foreman - CAAD Ltd <josh.foreman@caad.online>
Sent: Monday, January 22, 2024 9:17 AM
To: Tedridge, Louise <Louise.Tedridge@wsp.com>

Subject: Re: AWDM/1583/23 - The Barn Caravan Park Old Salts Farm Road Lancing

Hi Louise,

Understood - Thank you.

We have now had a quote from a company called H20geo to carry out the groundwater monitoring. Could you confirm a suitable period for the groundwater monitoring to be carried out, or is this down to the discretion of H20geo?

Kind Regards,

Josh

Josh Foreman ACIAT
Architectural Technologist

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On Wed, 17 Jan 2024 at 12:12, Tedridge, Louise <Louise.Tedridge@wsp.com> wrote:

> Hi Josh,
>
> Thank you for your email.
>
> Unfortunately, we will not be able to discharge the condition without groundwater monitoring having been completed as the condition states “Winter groundwater monitoring to establish highest annual ground
> water levels… will be required to support the design of any Infiltration drainage”. However, you can apply for a variation of condition to the council if an alternate drainage strategy is produced. This will require evidence that infiltration is not a viable option in order to move down the hierarchy of preference to discharge to a watercourse.
>
> Kind regards,
> Louise

From: Josh Foreman - CAAD Ltd <josh.foreman@caad.online>
Sent: Monday, January 15, 2024 11:34 AM
To: Tedridge, Louise <Louise.Tedridge@wsp.com>
Subject: Re: AWDM/1583/23 - The Barn Caravan Park Old Salts Farm Road Lancing

Hi Louise,

We're very grateful for your email, so thank you for this.

I think our clients main concern is the time this can take, which could end up just proving that a conventional soakaway is not suitable at the end of the exercise.

We're hoping that perhaps we can come up with a more robust solution between us, which would remove the need to carry out groundwater monitoring. There are no mains drains within the vicinity of the site. Our client owns the camping fields to the south east of the site, which at the bottom of the field is a stream. Could we potentially install the soakaway as currently designed (12 aquacell crates) with an overflow land drain down the field to the stream?

I have attached a very quick sketch of what we are thinking.

I would be very grateful for you thoughts on this, if its easier to give me a call I would be very happy to hear from you on 02392 474919.

Thanks again,

Kind Regards,

Josh

Josh Foreman ACIAT
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The Old Bakery, 34 North Street, Havant, PO9 1PT

On Fri, 12 Jan 2024 at 15:36, Tedridge, Louise <Louise.Tedridge@wsp.com> wrote:

Hi Josh,

My apologies for the delay in my response.

Below is some guidance regarding the groundwater monitoring process.

- We recommend that the groundwater monitoring is carried out to determine changes in groundwater levels at the location of the proposed soakaway over a period of time. To protect groundwater from pollution, any infiltration structure must be shown to be able to be constructed 1.2m above the anticipated seasonally high groundwater level.
- Information to support this should include measurements of the groundwater levels from geotechnical trial pits or boreholes on site to demonstrate that groundwater is not present at shallow depths. This should be provided in metres below ground level, rather than just photographic evidence.
- Ideally this should be undertaken during the winter months when it is expected that groundwater levels will be at their highest (October to March). We are however aware that there can be dry winters followed by dry summers or very wet summers, or specific ground conditions that can alter the timing of seasonally high groundwater levels. Therefore, we recommend that groundwater monitoring remains in place for a long as possible.
- Professional judgement will be required to determine if conditions during the monitoring would show a representative seasonally high groundwater levels to support the proposals of infiltration.

I hope this provides some clarification, however, please get in contact if you require any further information.

Many thanks,
Louise

From: Josh Foreman - CAAD Ltd <josh.foreman@caad.online>
Sent: Friday, January 12, 2024 11:14 AM
To: Tedridge, Louise <Louise.Tedridge@wsp.com>; Boakye, Nicole

<Nicole.Boakye@wsp.com>; Joe Pannell <thebarncaravanpark@googlemail.com>
Subject: Re: AWDM/1583/23 - The Barn Caravan Park Old Salts Farm Road Lancing

Hi Louise,

Just to follow up from my last email, might we get the opportunity to discuss this project with you this afternoon?

Thanks again,

Kind Regards,

Josh

Josh Foreman ACIAT
Architectural Technologist

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Partner Authority Scheme

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josh.foreman@caad.online
The Old Bakery, 34 North Street, Havant, PO9 1PT

On Wed, 10 Jan 2024 at 11:45, Josh Foreman - CAAD Ltd <josh.foreman@caad.online> wrote:

> Hi Louise,
>
> Many thanks for your email. We are hoping to discuss the requirements for the groundwater monitoring and hoping to understand what our options are to get the final condition discharged. We are more than happy to increase the soakaway size by 50% to allow for 45% climate change.
>
> We're hoping that with this in mind the condition can be approved. As mentioned in my email to Peter we have had a test hole open on site since October with no sign of the water table.
>
> Would this be something best to discuss by email, telephone, or a meet virtually?

Kind Regards,

Josh

Josh Foreman ACIAT
Architectural Technologist

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Partner Authority Scheme

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josh.foreman@caad.online
The Old Bakery, 34 North Street, Havant, PO9 1PT

On Wed, 10 Jan 2024 at 11:10, Tedridge, Louise <Louise.Tedridge@wsp.com> wrote:

> Hi Josh,
>
> Myself and my colleague are happy to set up a meeting to discuss this with you. Are you available Friday afternoon?
>
> Kind regards,
> Louise
>
> ---
>
> **From:** Josh Foreman - CAAD Ltd <josh.foreman@caad.online>
> **Sent:** Tuesday, January 9, 2024 11:06 AM
> **To:** Tedridge, Louise <Louise.Tedridge@wsp.com>
> **Subject:** AWDM/1583/23 - The Barn Caravan Park Old Salts Farm Road Lancing
>
> Hi Louise,
>
> REF: AWDM/1583/23 - The Barn Caravan Park Old Salts Farm Road Lancing
>
> I hope you do not mind me contacting you directly with regards to the project above. My client was hoping to give you a call for a bit of advise with regards to the groundwater monitoring - is there a number that we might be able to contact you on?
>
> Look forward to hearing from you.

Kind Regards,

Josh

Josh Foreman ACIAT
Architectural Technologist

Critchley Architecture And Design (CAAD) Ltd.
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josh.foreman@caad.online
The Old Bakery, 34 North Street, Havant, PO9 1PT

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