From: Laura Gibbons <laura.gibbons@adur-worthing.gov.uk> on behalf of Laura Gibbons
Sent: 31 March 2022 08:58
To: Ben O'Sullivan; Peter Barnett
Subject: Re: Dolphin Road - Groundwater Level Monitoring - AWDM/2209/21

Flag Status: Flagged

Hi Ben,

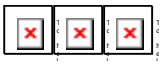
Thanks for sending over the revised details.

Peter- I confirm that I am happy for condition 12 to be discharged. Please list the following in any approval:

- DPR-AKSW-XX-XX-DR-C-9201-T05 Drainage Layout Sheet 1
- DPR-AKSW-XX-XX-DR-C-9021- T02 Proposed Levels Sheet 1
- DPR-AKSW-XX-XX-DR-C-9051- T03 External Finishes
- DPR-ASKW-XX-XX-DR-C-9251-T02 Drainage Details Sheet 1
- DPR-AKSW-XX-XX-DR-C-9252-T03 Drainage Details Sheet 2
- DPR-AKSW-XX-XX-DR-C-9501-T02 External Finish Details

Kind regards,

Laura Gibbons
Engineer, Adur & Worthing Councils
Phone: 01903 221374
Email: laura.gibbons@adur-worthing.gov.uk
Website: www.adur-worthing.gov.uk
Address: Facilities & Technical Services, Worthing Town Hall, Chapel Road, Worthing, West Sussex, BN11 1HA



On Wed, 16 Mar 2022 at 13:44, Ben O'Sullivan <benosullivan@welling.co.uk> wrote:

> Dear Laura,
>
> I am sorry I did not take the opportunity to review the information before sending.
>
> Please see the attached revised Drainage Calculations_P02, Drainage details – 9252_T02 & Drainage Layout – 9201_T05.
>
> I can confirm that the levels are now consistent across the documentation.

Should you have any queries, please do not hesitate to contact me.

Regards

Ben

Ben O'Sullivan

Associate

M: 07549 027287

E: benosullivan@welling.co.uk

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From: Laura Gibbons <laura.gibbons@adur-worthing.gov.uk>
Sent: 16 March 2022 09:23
To: Ben O'Sullivan <benosullivan@welling.co.uk>
Cc: Peter Barnett <peter.barnett@adur-worthing.gov.uk>
Subject: Re: Dolphin Road - Groundwater Level Monitoring - AWDM/2209/21

Hi Ben,

The invert levels for soakaways are inconsistent throughout, please can this be addressed.

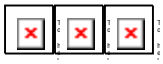
For example;

- on 9201 you have BOSL= 4.00mAOD, yet in the text regarding groundwater monitoring it states that the bottom of soakaway level is to be 3.8mAOD.
- on 9252 section A labels the soakaway base level as 3.2mAOD
- calculations have soakaway invert level as 4.2mAOD.

Layouts, construction details, and calculations must all be consistent. As stated previously "As per paragraph 5.2.2 of WSCC policy for the management of surface water, inlets to soakaways must be above the 1 in 10 year plus 40% climate change event water level".

Thanks,

Laura Gibbons
Engineer, Adur & Worthing Councils
Phone: 01903 221374
Email: laura.gibbons@adur-worthing.gov.uk
Website: www.adur-worthing.gov.uk
Address: Facilities & Technical Services, Worthing Town Hall, Chapel Road, Worthing, West Sussex, BN11 1HA



On Mon, 28 Feb 2022 at 16:21, Ben O'Sullivan <benosullivan@welling.co.uk> wrote:

> Dear Laura,
>
> Please find attached a copy of the latest drainage drawings which have been updated showing drain falls etc. a copy of the drainage calculations (previously provided), a full copy of the ground investigation report and the results of the additional ground water monitoring.

You will note that the only change within the submission generally relates to the yard area being concrete instead of tarmac (the parking areas remain the same permeable block paving) and that, as previously, nothing exceeds 3 meters deep from current level.

The concept, calculations and levels remain as previously submitted as are the calculations.

I trust this satisfactory, however if you require any further information, please do not hesitate to contact me.

Regards

Ben

Ben O'Sullivan

Associate

M: 07549 027287

E: benosullivan@welling.co.uk

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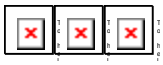
From: Laura Gibbons <laura.gibbons@adur-worthing.gov.uk>
Sent: 11 February 2022 09:45
To: Ben O'Sullivan <benosullivan@welling.co.uk>
Cc: Peter Barnett <peter.barnett@adur-worthing.gov.uk>
Subject: Re: Dolphin Road - Groundwater Level Monitoring - AWDM/2209/21

Hi Ben,

I am happy for the monitoring to cease. This is based upon the scale of your development and the long range forecast continuing to show dry conditions. As discussed, please ensure a minimum of 1m unsaturated zone between the base of your features and peak recorded groundwater level. This will hopefully account for any annual fluctuations in groundwater level.

Kind regards,

Laura Gibbons
Engineer, Adur & Worthing Councils
Phone: 01903 221374
Email: laura.gibbons@adur-worthing.gov.uk
Website: www.adur-worthing.gov.uk
Address: Facilities & Technical Services, Worthing Town Hall, Chapel Road, Worthing, West Sussex, BN11 1HA



On Tue, 8 Feb 2022 at 10:12, Ben O'Sullivan <benosullivan@welling.co.uk> wrote:

> Dear Laura,
>
> We have taken further readings yesterday following some if the rain and there appears to be no variance in level.

Depth of Groundwater Standing Groundwater Within Standpipe				
Trial Hole	**Date**	**Tide**	**Depth of Groundwater (m bgl)**	**Depth of Standpipe (m bgl)**
WS5	19/01/2022 (11:30am)	12:00pm – high	4.00	4.50
	27/01/2022 (14:30pm)	12:13pm – low	4.30	4.50
	01/02/2022 (12:1 pm)	11:16am - high	4.03	4.20
	03/02/2022 (13:53pm)	12:53pm – high	4.13	4.20

Given the long term weather forecast, can we discuss the merit of ongoing monitoring?

Regards

Ben

Ben O'Sullivan

Associate

M: 07549 027287

E: benosullivan@welling.co.uk

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From: Ben O'Sullivan
Sent: 03 February 2022 15:45
To: laura.gibbons@adur-worthing.gov.uk
Cc: Peter Barnett <peter.barnett@adur-worthing.gov.uk>
Subject: RE: Dolphin Road - Groundwater Level Monitoring - AWDM/2209/21

Dear Laura,

Further to conversation earlier this week, please see the below table showing our findings so far.

It does seem that the level has been consistent so far and there is a circa 300mm tidal influence.

Depth of Groundwater Standing Groundwater Within Standpipe				
Trial Hole	**Date**	**Tide**	**Depth of Groundwater (m bgl)**	**Depth of Standpipe (m bgl)**
WS5	19/01/2022 (11:30am)	12:00pm – high	4.00	4.50
	27/01/2022 (14:30pm)	12:13pm – low	4.30	4.50
	01/02/2022 (12:1 pm)	11:16am - high	4.03	4.20
	03/02/2022 (13:53pm)	12:53pm – high	4.13	4.20

If there are any questions, please do not hesitate to call me

Regards

Ben

Ben O'Sullivan

Associate

M: 07549 027287

E: benosullivan@welling.co.uk

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From: Ben O'Sullivan
Sent: 28 January 2022 09:50
To: laura.gibbons@adur-worthing.gov.uk
Cc: Peter Barnett <peter.barnett@adur-worthing.gov.uk>
Subject: RE: Dolphin Road - Groundwater Level Monitoring - AWDM/2209/21 [Filed 28 Jan 2022 09:50]

Dear Laura,

Can you give me a call on my mobile when you have a moment please?

I just wanted to update you with the findings of the last two weeks of monitoring and discuss matters going forward.

Regards

Ben

Ben O'Sullivan

Associate

M: 07549 027287

E: benosullivan@welling.co.uk

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From: Ben O'Sullivan
Sent: 13 January 2022 17:40
To: laura.gibbons@adur-worthing.gov.uk
Cc: Ian Strickland <Ian.Strickland@aksward.com>; Peter Barnett <peter.barnett@adur-worthing.gov.uk>
Subject: FW: Dolphin Road - Groundwater Level Monitoring - AWDM/2209/21

Dear Laura,

Thank you for your time earlier today.

Please see attached the full ground investigation report and drainage calculations.

I shall collate any reports/information I can obtain regarding winter monitoring undertaken in the immediate area.

We shall begin well monitoring on site from Tuesday, unfortunately our consultant does not have a data logger so will be undertaking frequent visits through each week – we will revert at the end of four weeks with an update to discuss whether further monitoring will be required.

Moreover, these proposed units 5-10 are in fact phase 2, the previous units 1-5 have been completed previously; I am trying to obtain the drainage scheme design for the previous phase together with any further information if this may be of use in consideration.

Please let us know if you have any further information requirements or any queries.

Regards

Ben

Ben O'Sullivan

Associate

M: 07549 027287

E: benosullivan@welling.co.uk

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From: Peter Barnett <peter.barnett@adur-worthing.gov.uk>
Sent: 13 January 2022 14:11
To: Ben O'Sullivan <benosullivan@welling.co.uk>

Cc: John Dunford <John.Dunford@aksward.com>; Ian Strickland <Ian.Strickland@aksward.com>
Subject: Re: Dolphin Road - Groundwater Level Monitoring - AWDM/2209/21

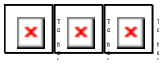
Ben

Is it me or our Drainage Engineer, Laura Gibbons, that you wish to contact? If your query relates to drainage then Laura is the best person to speak to.

Her email is laura.gibbons@adur-worthing.gov.uk and phone 01903 221374

regards

Peter Barnett
Principal Planning Officer, Adur & Worthing Councils
Phone: 01903 221310
Email: peter.barnett@adur-worthing.gov.uk
Website: http://www.adur-worthing.gov.uk
Address: Development Management, Portland House, 44 Richmond Road, Worthing, BN11 1HS



On Thu, 13 Jan 2022 at 12:16, Ben O'Sullivan <benosullivan@welling.co.uk> wrote:

> Dear Peter,
>
> I have tried to call but I understand you may be on the phone – please call me back when you have an opportunity.
>
> I also thought it prudent to include the reference in the above for your records, please see above.
>
> Regards
>
> *Ben*
>
> **Ben O'Sullivan**
>
> **Associate**
>
> **M:** 07549 027287

E: benosullivan@welling.co.uk

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From: Ian Strickland <Ian.Strickland@aksward.com>
Sent: 12 January 2022 12:57
To: peter.barnett@adur-worthing.gov.uk
Cc: John Dunford <John.Dunford@aksward.com>; Ben O'Sullivan <benosullivan@welling.co.uk>
Subject: Dolphin Road - Groundwater Level Monitoring

Good afternoon Peter,

We've produced the attached drainage layout design for the Dolphin Road, Shoreham project for our clients, Welling. I believe you've been in contact with Ben at Welling (cc'd) previously.

We understand there has been a request from yourselves for winter groundwater level monitoring for the site. At this point, we have obviously missed a portion of the winter period. Can we propose that we conduct groundwater level monitoring this and next month (January and February) to gain an understanding of the levels?

The project is proposed to begin on site in March and the site investigation monitoring did not record any groundwater strikes in the 3no. 5m deep trial holes. I appreciate this was conducted in August but perhaps the monitoring conducted then and in the next two months (if no significant rise is found) will be acceptable to yourselves and allow us to proceed as planned? I attach the SI report for your ease of reference (see pg. 10).

Please could you advise as soon as possible to allow us plan the next stages of the project? Thanks in advance.

Kind regards,

Ian Strickland

Senior Project Engineer

AKSWard

116 High Street

The French Quarter

Southampton SO14 2AA

Mob: 07741 664 963

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