



RE: CONSENT: WA/055/0004/0008 - Ddole Farm

From Cowell, Alex <alex.cowell@cyfoethnaturiolcymru.gov.uk>

Date Fri 4/10/2026 10:30 AM

To Scott Greaves <Scott@hydrogeo.co.uk>

Good morning Scott,

NRW Geoscience Team have confirmed that they have no issues given the operational constraints on site, but will require details/ explanation within the HIA on what was tested, pump durations and all monitoring etc. It appears that you have got good time series data for the groundwater levels from all the boreholes on site for some time (back to February) and we note that you will remove this today (10th April) – We would recommend keeping this for an extra week if possible, to get the post testing monitoring.

If during your analysis you note that anything is missing, then you should retest before submitting the formal application/ HIA, as you may be required to retest if the testing and analysis is insufficient.

Kind regards,

Alex Cowell

Swyddog Trwyddedu Adnoddau Dwr | Water Resources Permitting Officer

Cyfarwyddiaeth Strategaeth, Polisi a Thystiolaeth | Strategy, Policy and Evidence Directorate

Rhif ffôn | Phone number 0300 065 3888

Rhagenwau Ef/Ei | Pronouns His/Him



Croesewir gohebiaeth yn Gymraeg a byddwn yn ymateb yn Gymraeg, heb i hynny arwain at oedi.

Correspondence in Welsh is welcomed, and we will respond in Welsh without it leading to a delay.



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From: Scott Greaves <Scott@hydrogeo.co.uk>
Sent: 09 April 2026 12:58
To: Cowell, Alex <alex.cowell@cyfoethnaturiolcymru.gov.uk>
Subject: Re: CONSENT: WA/055/0004/0008 - Ddole Farm

Rhybudd: Deilliodd yr e-bost hwn o'r tu allan i'r sefydliad. Peidiwch â chlicio dolenni, atodiadau agored nac sganio codau QR oni bai eich bod yn cydnabod yr anfonwr ac yn gwybod bod y cynnwys yn ddiogel.

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Thanks for this Alex,

Much appreciated

Scott Greaves

Geo-Environmental Consultant

BSc MSc FGS

Hydrogeo Ltd, Unit 4, Waddington House, Llanover Business Centre, Llanover, Abergavenny, NP7 9HA

Tel: +44 (0)1873 856813 Mobile: +44 (0)7397 507467 Email: scott@hydrogeo.co.uk

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From: Cowell, Alex <alex.cowell@cyfoethnaturiolcymru.gov.uk>
Sent: Thursday, April 9, 2026 12:57 PM
To: Scott Greaves <Scott@hydrogeo.co.uk>
Subject: RE: CONSENT: WA/055/0004/0008 - Ddole Farm

Hi Scott,

Apologies for missing your telephone calls.

I'm unable to advise on the testing but I have forwarded your query to NRW's Geoscience team and will let you know their response as soon as possible.

Kind regards,

Alex Cowell

Swyddog Trwyddedu Adnoddau Dwr | Water Resources Permitting Officer

Cyfarwyddiaeth Strategaeth, Polisi a Thystiolaeth | Strategy, Policy and Evidence Directorate

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From: Scott Greaves <Scott@hydrogeo.co.uk>
Sent: 08 April 2026 12:17
To: Cowell, Alex <alex.cowell@cyfoethnaturiolcymru.gov.uk>
Subject: Re: CONSENT: WA/055/0004/0008 - Ddole Farm

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Hi Alex,

Hope all is well with yourself. I tried calling yesterday to discuss the details I have noted below. Please can you take a look at this and confirm this is a sufficient approach given the site difficulties in relation to BH2.

We have been progressing the pump testing at Ddole Farm, with all 3no. boreholes combined currently testing (Beginning yesterday morning). I have a query to run past you and your team following progression of the testing, and the works completed to date at BH2.

Constant rate testing at BH3 was successful for 48 hours as the submerged borehole pump is controlled by a float switch on an above ground storage tank. We were therefore able to secure this switch in the on position for 48 hours. The same was possible for BH6 which feeds the same tank.

This set up is not possible for BH2 as the borehole feeds a sub-surface tank with no possible access to the controlling float switch. The borehole pump is therefore fully controlled by the water level within the tank. It has therefore only been possible to test this borehole for a maximum continuous period of 28 hours prior to the float switch within the tank being activated and switching the pump off. It has not been possible to test BH2 whilst constantly pumping for a period greater than 28 hours.

It is thought that the same scenario will occur during this current combined pumping test where the BH2 pump will eventually activate the float switch and cut the pump.

I propose that the borehole pump runs continuously for the period of time until the float switch on the sub-surface tank is activated. At this point the pump will be automatically cut off but the electric supply remains allowing the borehole to be operated as it usually would following on-site farm use. This would result in the following during the combined 48 hour constant rate test.

- BH2 running for period of time until the float switch activated.
- BH2 then used as it would be during normal day - to day farming operations over the remaining period of the 48 hours where the pump is continuously switched on and off as water levels within the tank fluctuate, resulting in several periods of groundwater abstraction and groundwater recharge.
- Both BH3 and BH6 would remain actively abstracting for the whole 48 hour period.

I unfortunately think that given the current setup of the boreholes and tank system that this is the only way to obtain longer term data from BH2. We have installed a level logger in the borehole which is recording groundwater levels at 1-minute intervals over the period 25th February - Present, with the loggers scheduled to remain on-site until Friday 10th April.

I trust that this has been able to allow enough background data, data representative of daily farm use of BH2, and 28-hours constant rate test and subsequent recovery to satisfy NRW that best endeavours have been made to test this borehole as per the GIC.

I have attached initial background data captured from BH2 which shows the typical day-to-day use of the borehole. From this you should see the multiple instances of groundwater abstraction and groundwater recovery all controlled by the tank float switch.

Can you please confirm that this is an acceptable approach for the testing. Please feel free to call to discuss on the mobile number in my email footer if required.

Kind regards,

Scott Greaves

Geo-Environmental Consultant

BSc MSc FGS

Hydrogeo Ltd, Unit 4, Waddington House, Llanover Business Centre, Llanover, Abergavenny, NP7 9HA

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From: Cowell, Alex <alex.cowell@cyfoethnaturiolcymru.gov.uk>

Sent: Wednesday, February 18, 2026 3:42 PM

To: Scott Greaves <Scott@hydrogeo.co.uk>

Cc: Chris Betts <chris@hydrogeo.co.uk>

Subject: RE: CONSENT: WA/055/0004/0008 - Ddole Farm

Hi Scott,

Thanks for your email, very much appreciated.

Kind regards,

Alex Cowell

Swyddog Trwyddedu Adnoddau Dwr | Water Resources Permitting Officer

Cyfarwyddiaeth Strategaeth, Polisi a Thystiolaeth | Strategy, Policy and Evidence Directorate

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From: Scott Greaves <Scott@hydrogeo.co.uk>

Sent: 18 February 2026 14:29

To: Cowell, Alex <alex.cowell@cyfoethnaturiolcymru.gov.uk>

Cc: Chris Betts <chris@hydrogeo.co.uk>

Subject: CONSENT: WA/055/0004/0008 - Ddole Farm

Importance: High

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Hi Alex,

Just an email to inform you that we are attending site tomorrow to install the dip tubes, flow meters and level loggers into the 3no. On-site boreholes and a level logger to the Camddwr watercourse.

We will then allow for a period of pre-test groundwater and surface water monitoring, with the intentions of beginning the pump test following the 10-day notice on 2nd March 2026.

Kind regards,

Scott Greaves

Geo-Environmental Consultant

BSc MSc FGS

Hydrogeo Ltd, Unit 4, Waddington House, Llanover Business Centre, Llanover, Abergavenny, NP7 9HA

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