



Rowlands View, Templeton, Narberth,
Pembrokeshire, SA67 8RG
Tel: 01834 860464
Fax: 01834 869156
www.gdharries.co.uk

Jennifer Pocock
Water Resources Permitting Team
Natural Resources Wales
Cambria House,
29 Newport Road,
Cardiff, CF24 0TP

12th June 2019

Dear Ms Pocock,

Re: **Transitional abstraction licence application number: PAN-004464**
Site name: **Coygen Quarry**

Thank you for your letter of 17 April. With respect to the points you raised:

I have attached a letter of authorisation, signed by a company director to say that I am authorised to sign and submit an application for a transitional water resources licence on behalf of GD Harries & Sons Ltd

I confirm that GD Harries & Sons Ltd agree that NRW should proceed with our transitional application for a **transfer licence**, as opposed to a **full abstraction** licence and enclose a cheque for the £1,365 additional payment.

I enclose a file "Register Plan CYM546700.pdf" which shows the land ownership boundary.

Maximum abstraction Quantities

You said in your letter: "*On your application form (table 8.1) you have not specified which are the maximum quantities you wish to have licensed*". We are not clear what you mean as Table 8.1 simply asks for the maximum quantities abstracted historically. There is no box to indicate the maximum quantity that we wish to have licensed. Indeed it is hard to specify the maximum amount because the purpose of abstraction is to prevent flooding of the working area. Much of

Gerald D Harries & Sons Limited
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Registered in England & Wales
Company Registration No: 04179343 VAT Registration No: GB 115 1514 58



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the water pumped from the site is incident rainfall so if there is a future year that is markedly wetter than the years for which we have data then it will be necessary to pump out more water to prevent flooding (in fact we now have pumping data for the 2018 calendar year and the amounts are greater than in 2017). Further we understand from your letter that for a transfer licence the licensed abstraction quantities are not routinely included on the licence. Please could you clarify.

Evidence

I have attached a spreadsheet provided by Professor John Gunn which shows the daily amounts pumped out of the quarry based on the meter readings. I have also provided a copy of LRC Report 2019/11, *Hydrogeological monitoring report for Coygen Quarry: 2017-2018 water year* which also includes data for previous years and explains the relationship between historical meter readings and the flume measurements which provide greater detail. Note that this report has already been sent to NRW by the MPA.

Additional requirements for dewatering applications

As requested I am attaching

- A file "Coygen Water Plan Rev D - Environmental.pdf" which shows the abstraction and discharge points, and also the location of the flume which is now used for detailed flow measurements.
- A file "Coygen Section Plan.pdf" which shows the extent of current and future workings and the line of a cross-section which is file "Coygen Section.pdf"

The current workings and extent of planning permission are shown on "Coygen Water Plan Rev D - Environmental.pdf"

You asked for "*the current and planned water table levels*". To enable safe working the water surface in the sump is kept at an elevation of 5.54m below OD as shown on file "Coygen Section.pdf". The water surface will remain at this elevation. In common with most



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groundwater bodies in karstified limestone groundwater systems there is no simple "water table" and the water surface elevation in boreholes varies across the site and over time. There is further information on groundwater elevation in LRC Report 2019/11.

You asked for "pump details". The present pump, which was installed on 21 March 2019, is a BS2151 HT 6" submersible pump (Fleet No: 5756) with a maximum capacity of 177.5m³/h.

Abstraction location.

You asked "Please could you provide the NRGs of the corners of the area you wish to dewater". The quarry sump is an irregular shape and does not have corners per se but NGR for four points around the perimeter are shown on the file "Coygen Water Plan Rev D - Environmental.pdf".

Abstraction duration

GD Harries & Sons Ltd wish to proceed with the application on the basis that any licence issued is likely to be limited to the common end date for the catchment, which is 31st March 2030.

I trust this answers your queries regarding our application, however if you require any further information, please don't hesitate to contact me.

Kind Regards

A handwritten signature in black ink, appearing to be 'SD' followed by a flourish.

Simon Dorken
Environmental Manager

DD 01834 862356

Email SimonDorken@gdharries.co.uk

