

Ref: P19-142 – BA Welsh Slate NA \ APP LET PEN WS var

28 November 2019

Permitting Receipt Centre  
Natural Resources Wales  
Ty Cambria  
29 Newport Road  
Cardiff  
CF24 0TP

Dear Sir / Madam

**THE WATER RESOURCES (TRANSITIONAL PROVISIONS) REGULATIONS 2017**

**BREEDON SOUTHERN LIMITED**

**APPLICATION FOR A TRANSFER ABSTRACTION LICENCE FROM SURFACE WATER AT  
PENRHYN QUARRY, BETHESDA.**

Please find enclosed a Transfer Licence application on behalf of Breedon Southern Limited to cover their historic transfer abstraction of surface water at Penrhyn Quarry, Bethesda, Bangor.

Enclosed is:

- Application Form WRH along with associated Figures and Continuation Sheet;
- Information providing evidence of historic transfer abstraction; and
- A letter of authorisation from Breedon Southern Limited allowing Envireau Water to sign forms relating to the abstraction licence application and liaise with the Natural Resources Wales on their behalf.

Please contact Deborah Thomas on 01332 871 883 to organise payment.

We look forward to receiving notification of a 'valid application' in due course but in the meantime if you would like to discuss any aspect of the application then please do not hesitate to contact Deborah Thomas ([deborahthomas@envireauwater.co.uk](mailto:deborahthomas@envireauwater.co.uk)).

Please ensure all correspondence regarding the application is directed to Envireau Water (the Agent) so we are able to respond promptly.

Yours faithfully,

**James Dodds MSc CGeol FGS**  
**Director, Water Management Specialist**



10 October 2019

Permitting Receipt Centre  
Natural Resources Wales  
Ty Cambria  
29 Newport Road  
Cardiff  
CF24 0TP

Dear Sir/Madam

**BREEDON SOUTHERN LIMITED, PINNACLE HOUSE, BREEDON QUARRY, BREEDON  
ON THE HILL, DERBY, DE73 8AP**

**Transitional Arrangements Applications**

We hereby authorise Enviroau Water of Cedars Farm Barn, Market Street, Draycott, Derbyshire, DE72 3NB to represent and sign on our behalf, forms relating to the New Authorisation licensing in regard to our quarry operations.

Yours faithfully

A handwritten signature in blue ink, appearing to read "M/P Pearce".

**M/P Pearce**  
**Managing Director**



**Fill in this form if you are applying for a transitional water resources licence to continue a previously exempt abstraction.**

This form is available in both English and Welsh. Please check that this is the latest version of the form available from our website before submitting your application.

Please ensure you use Guidance Note WRH to help you.

All relevant guidance documents can be found on our website.

**Contents**

1 Application type and fee

- 2 Applicant and agent details
- 3 Site name
- 4 Entitlement to apply
- 5 Existing licence number(s)
- 6 Cross border applications
- 7 Abstraction details
- 8 Abstraction history and evidence
- 9 Discharge details
- 10 Eel considerations
- 11 Trickle irrigation
- 12 Planned abstractions
- 13 Other abstractions
- 14 Planning permissions
- 15 Environmental Impact Assessment
- 16 Licence duration
- 17 Application checklist

**1. Application type and fee**

**1.1 Please select your application type from the list below.**

- A new transitional water resources full abstraction licence for a previously exempt abstraction
- A new transitional water resources transfer licence for a previously exempt abstraction
- A variation to an existing full abstraction licence to add a previously exempt abstraction
- A variation to an existing transfer licence to add a previously exempt abstraction

**1.2 Please indicate the amount and how you wish to pay your application**

Amount paid

Cheque

Credit or debit card

BACS transfer  BACS reference number

**2 Applicant and agent details**

This is the individual or organisation any resulting licence will be issued to, and must be a legal entity. If you are an agent acting on behalf of an applicant, provide their details here and yours in section 2.2.

**2.1 Applicant details**

Individual  Public body

Registered company  Organisation or group of individuals

Other  If 'Other', please specify

Title

First name	
Last name	
Company, charity, body, or trading name (if relevant)	Breedon Southern Limited
Registered company or charity number (if relevant)	00156531
Address	Breedon Quarry
	Main Street
	Breedon-On-The-Hill
	Derby
Postcode	DE73 8AP
Telephone - mobile	07966 081504 (Guy Martin)
Telephone - office	01332 974876 (Guy Martin)
Email address	Guy.Martin@breedongroup.com

We will contact you by email unless you tick here.

## 2.2 Agent details

This is who we will correspond with unless otherwise informed. If you are an agent applying on behalf of an applicant, please include a letter of authorisation from the applicant allowing you to act as signatory, and provide a reference for this document in the box below.

Document reference	
Title	Mr
First name	James
Last name	Dodds
Company or trading name	Envireau Limited
Position in company	Chairperson, Water Management Specialist
Address	Envireau Water
	Cedars Farm Barn

	<input type="text" value="Market Street"/>
	<input type="text" value="Draycott"/>
Postcode	<input type="text" value="DE72 3NB"/>
Telephone - mobile	<input type="text" value="07711 920 553"/>
Telephone - office	<input type="text" value="01332 871 871"/>
Email address	<input type="text" value="JamesDodds@envireauwater.co.uk"/>

We will contact you by email unless you tick here.

### 2.3 Site operation contact

Please specify who we should contact with regard to your site operation.

Applicant

Agent

Other  Please provide contact details for the operational contact on a separate referenced document, and tell us this reference below.

Document reference

### 2.4 Abstraction invoices and records contact

Please specify who we should contact for invoices and abstraction records (returns). Please note that these may not be not required for transfer licences.

#### Invoice address

Applicant

Agent

Other  Please provide contact details for the operational contact on a separate referenced document, and tell us this reference below.

Document reference

#### Abstraction records

Applicant

Agent

Other  Please provide contact details for the operational contact on a separate referenced document, and tell us this reference below.

Document reference

## 3. Site name

### 3.1 Please provide the site name below:

Site name

#### 4. Entitlement to apply

##### 4.1 Have you abstracted water between 01 January 2011 and 31 December 2017 for the activity which you are applying to be licensed?

Yes

No  Please see our water abstraction and impounding webpage for further information on the correct application forms.

##### 4.2 What is your connection to the land where the abstraction takes place?

Please provide a map outlining your land ownership/occupation and include all abstractions and discharges where relevant.

Owner

Occupier

Document reference

##### 4.3 Do you have a legal right of access to the land where the abstraction take place?

No

Yes  Please provide further detail in the box below. If necessary continue on a separate referenced document, and tell us this reference.

Document reference

#### 5. Existing licence number(s)

If you are applying to change an existing licence please provide the licence number below.

Licence number(s)

#### 6. Cross border applications

As part of your site operation do you also abstract for a previously exempt activity in England?

No

Yes  Please provide detail of this cross border application in the box below. If possible, provide a reference or application number, or name of an Environment Agency contact with whom the application has been discussed.

Continue on a separate referenced sheet if necessary and tell us the reference for this document.

Document reference



**7. Abstraction details**

**7.1 Site map**

Please provide a map with details of the location(s) you abstract water from (points reaches, or areas). Tell us the reference for this map, below.

Site map reference

Figure 1 and 2 and Continuation Sheet

**7.2 Please tell us details about the location(s) you abstract water from (points reaches, or areas) in the tables below.**

The abstraction location, name, or reference must be the same as those used on the site map, in question 7.1. If you need more space, please continue on a separate referenced sheet if necessary and tell us the reference for this document

Document reference

Figure 2 and 3 and Continuation Sheet

Table 7.1 - Surface water abstractions						
Abstraction location name or reference (As labelled on the site map)	Type of location (single point, reach, area)	Source of Supply	First National Grid Reference (12 digits)	Second National Grid Reference (12 digits)	Third National Grid Reference (12 digits)	Fourth National Grid Reference (12 digits)
Transfer	Single Point	Surface water, rainfall collected from surface water catchment	SH 62270 65385			

If necessary, continue on a separate sheet and tell us the reference for this document.

Document reference(s)

See Continuation Sheet and Figure 2 and 3

Table 7.2 Ground water abstractions										
Abstraction location name or reference (as labelled on map)	Source of Supply	National Grid Reference (12 digit)	Overall depth (metres)	Maximum diameter (millimetres) or area of excavation (square metres)	Screened section (metres below ground level)	Drift geology	Solid geology	Rest pump water level	Pumped water level	Pump Depth

If necessary, continue on a separate sheet and tell us the reference for this document.

Document reference(s)

N/A

### 8. Abstraction history and evidence

8.1 Please complete table 8.1 to document that the abstraction(s) and transfer(s) has or have been taking place during the qualifying period.

If necessary, continue on a separate sheet and tell us the reference for this document.

Document reference(s)

See Continuation Sheet

Table 8.1												
Year	Abstraction location name or reference (as labelled on map)	Purpose(s) water used for	Period of abstraction All year, or months, or days (provide specific dates)	Maximum quantities abstracted						Means of measurement, or assessment of abstracted quantities	Are these the maximum quantities of water you wish to have licensed? (Yes or No)	
				Year (cubic metres)	Day (cubic metres)	Hour (cubic metres)	Peak instantaneous flow rate (litres per second)	Maximum number of hours of abstraction per day	Please indicate whether volume is actual (A) or estimated (E)			
01 January 2011 to 31 December 2011	Transfer	Transfer	All Year	3,720,760				24	E	Calculated from rainfall	Y	
01 January 2012 to 31 December 2012	Transfer	Transfer	All Year	3,720,760				24	E	Calculated from rainfall	Y	
01 January 2013 to 31 December 2013	Transfer	Transfer	All Year	3,720,760				24	E	Calculated from rainfall	Y	
01 January 2014 to 31 December 2014	Transfer	Transfer	All Year	3,720,760				24	E	Calculated from rainfall	Y	
01 January 2015 to 31 December 2015	Transfer	Transfer	All Year	3,720,760				24	E	Calculated from rainfall	Y	
01 January 2016 to 31 December 2016	Transfer	Transfer	All Year	3,720,760				24	E	Calculated from rainfall	Y	
01 January 2017 to 31 December 2017	Transfer	Transfer	All Year	3,720,760				24	E	Calculated from rainfall	Y	

**8.2 Please complete the table below if you wish a lesser quantity of water to be licensed than that detailed in table 8.1.**

If necessary, continue on a separate sheet and provide a reference for this document.

Document reference

N/A

**Table 8.2**

Abstraction location name or reference (as labelled on map)	Purpose water is used for	Abstraction period	Maximum annual abstraction volume (cubic metres)	Maximum daily abstraction volume (cubic metres)	Maximum hourly abstraction volume (cubic metres)	Maximum number of hours of abstraction per day	Peak abstraction rate (litres per second)

**8.3 Do you wish your abstracted quantities to be aggregated?**

You can aggregate:

- i) across some or all of the abstraction points, or reaches, or areas listed above.
- ii) with other abstractions you wish to have licensed through the transitional process.
- iii) abstractions you need to have licensed through the standard licensing process.
- iv) with existing licences you hold.

No

Yes  Provide details of any proposed aggregation in the box below. If necessary, continue on a separate sheet and provide a reference for this document.

Document reference

**8.4 Please provide a detailed description of how the abstraction(s) has/have taken place**

Use the box below to tell us about your abstraction(s). The description should include the following:

- A diagram or schematic of how the activity has been undertaken, using your abstraction point references and including any discharge points
- Details of the structure and equipment involved in the abstraction. This should include dimensions.
- Details of your means of measurement or assessment of abstraction quantities method

If necessary, continue on a separate sheet and tell us the reference for this document.

Document reference

See Continuation Sheet

See Continuation Sheet

**8.5 Please list the evidence you are providing to support your application**

Use the box below. The evidence should demonstrate the following:

- That abstraction has taken place at some time during the seven year qualifying period.
- The quantities of water you have abstracted during the qualifying period. For example, records of meter readings, or cropping plans.

If necessary, continue on a separate sheet and provide a reference for this document.

Document reference      See Continuation Sheet

See Continuation Sheet

**9. Discharge details**

**9.1 Please provide details on any discharge of abstracted water in table 9.1 below and on the map used to show abstraction locations.**

If necessary, continue a separate sheet and provide a reference for this document.

Document reference      See Continuation Sheet

<b>Table 9.1 - Details of any discharge of abstracted water</b>			
Discharge location name or reference (as labelled on map)	National Grid Reference of discharge point (12 digit)	Total volume discharged (cubic metres)	Environmental Permit number for Water Discharge Activity number (if applicable)
Permitted Discharge	SH 6155 6687	Rainfall Dependant	CG0145301 (formally CG0101201)

**9.2 Please provide a description of discharge structures and equipment**

See Continuation Sheet

If necessary, continue a separate sheet and provide a reference for this document.

Document reference      See Continuation Sheet

## 10. Eel considerations

Does your abstraction include measures to safeguard eels?

No

Yes  Provide details below

## 11. Trickle Irrigation

If you are applying to licence a trickle irrigation abstraction, do you wish to apply for a Two-Part Tariff agreement with your application?

No

Yes  We will contact you during determination of your application to arrange this agreement.

## 12. Planned abstractions

**12.1 Do you expect to increase the current rate of abstraction for the activity you are applying to have licensed from 01 January 2018 onwards or to carry out further new abstractions (both termed 'planned' abstractions) at this site in the future?**

No

Yes

**12.2 Have you submitted a licence application (s) for any planned abstraction(s) as a result of the Water Act 2003 changes?**

No

Yes  Provide a reference number if you have already submitted an application(s) to cover any planned abstractions.

Document reference

## 13. Other abstractions

Please provide details of any other abstraction(s) (licensed or exempt) that are associated with this application in table 13.1 below.

Table 13.1 - Details of any other abstraction(s) (licensed or exempt) that are associated with this application					
National Grid Reference (12 digit) of where you abstract water	Source name and type	Purpose of abstraction	Where do you use the water?	When do you abstract the water?	Is this a pending application, or already licensed?  Please provide the application or licence number as appropriate
SH 61159 64711	Surface Water Llyn Owen y Ddol	Industrial	Penrhyn Quarry	All Year	23/65/18/0004
SH 62097 65479	Surface Water - Lord Pump Shaft	Process	Penrhyn Works	All Year	Application Submitted (PAN-007483)

--	--	--	--	--	--

**14. Planning permission**

Complete table 14.1 below and provide details of any planning permissions or advice associated with the abstraction you are applying to have licensed where relevant. Provide a copy of any permissions or advice, providing a reference for this document below.

Document reference

Table 14.1 – Planning permission			
Abstraction location name or reference (as labelled on map)	Is planning permission needed, Yes or No?	Planning permission status (if required)	Have you received any planning advice for the abstraction?
Transfer	Yes	C96A/0020/16/MW and C08A/0039/16/MW	N/A

**15. Environmental impact assessment(EIA)**

Does your application require an EIA under The Water Resources (Environmental Impact Assessment) (England and Wales) Regulations 2003 (as amended)

No

Yes  Please provide a copy of your environmental impact assessment; provide a reference for this assessment below.

Document reference

**16. Licence duration**

**Tell us when you wish your abstraction licence to end**

Normally abstraction licences are granted for between 6 and 18 years in line with the catchment licence common end date. If you require a shorter or longer duration licence, please provide details and your justification in the box below.

If necessary, continue a separate sheet and provide a reference for this document.

Document reference

<p>The Common End Date is considered suitable</p>
---

**17 Declaration and data protection and commercial confidentiality**

**Data protection:**

Please read the guidance carefully for details on who can sign this section and note the information relating to the Data Protection Act 1998, our Public Register and exclusions.

**Commercial confidentiality:**

Do you think your application should be confidential, and that information should not be placed on the public register?

No

Yes  You must send us supporting information to tell us why. Use the box below or a separate sheet, and tell us the reference you have given this document.

Document reference

**Declaration:**

By signing below, you are declaring that as far as you know and believe the information given in this form, on any map and in any supporting or additional information is true.

A printed name in the 'signature' response box will be treated as the equivalent of an electronic signature.

Title

Mr

First name

James

Last name

Dodds

Position

Director, Water Resources Specialist

Today's date

04/12/2019

## **BREEDON SOUTHERN – PENRHYN QUARRY**

### **APPLICATION FOR A TRANSFER LICENCE**

#### **Continuation Sheet**

##### **Introduction**

Penrhyn Quarry (the Site) contains a large quarry complex and slate processing facility located approximately 1.5 km south of Bethesda in Gwynedd. The quarry is owned and operated by Breedon Southern (Figure 1). The quarry has been operational since the late 1700's and comprises two extraction areas referred to as North Pit and South Pit.

The North Pit is exhausted and partially flooded / infilled with reject slate. The South Pit is the current extraction area and has planning permission to continue to extract until 2032. As the pit is extended to the south and west, it is being progressively infilled with reject slate from the north.

There are extensive areas of reject slate around the Site, which have been formed from the rejects of the different processes carried out over the many decades that quarrying and processing has been ongoing at the Site. The materials comprise slate blocks of various sizes from centimetres to metres in size which have been loosely tipped, creating deposits of material with an open structure and which drain easily.

Penryhn is in a high rainfall area with annual average rainfall in the order of 2,500 mm. The geology of the quarry and surrounding area (slate) is such that there is inherently a very low or negligible rock mass permeability with no or a negligible volume of groundwater, and therefore the dewatering of the quarry workings is considered to be 'wholly or mainly rainfall' and therefore exempt from licensing. However, because the quarry drains by gravity to a natural water course (source of supply) a Transfer Licence is required.

This Continuation Sheet and associated Figures and Appendices provide information relating to the application for one Transfer Licence, following the Transitional Arrangements process. A full abstraction licence for slate processing water at the quarry is in the process of being validated also following the Transitional Arrangement (PAN-007483).

##### **Form WRH; Section 2**

The relevant contact with regards Penrhyn Quarry is Guy Martin, Geology Manager.

**Form WRH; Section 4.3**

The abstraction and water management infrastructure discussed (excluding the end point of the discharge adit) within this application are located within the landholdings of Breedon Southern.

**Form WRH; Section 7**

The water management of the quarry is shown on Figure 2 on an aerial image of the Site. Figure 3 shows the licensing requirements for Penrhyn Quarry, one Full Licence labelled ABS and one Transfer Licence labelled as Transfer on Figures 2 and 3. The Full Licence has been applied for under the transitional arrangements (PAN-007483).

This application relates to the gravity transfer from the North Pit Lagoon to surface water off-site via an adit. The transfer point from the North Pit Lagoon is located at SH 62335 65490 with the exit point of the adit at SH 61550 66870.

**Form WRH; Section 8**

No metering of the abstraction for transfer from North Pit Lagoon has taken place during the transitional period. The discharge volume on the permit is rainfall dependant. It is acknowledged that water that flows into the South Pit Sump has no or a minimal groundwater component.

The volume of the transfer from the North Pit Lagoon is rainfall dependant, in the absence of the volume data for the transfer, the annual transfer volumes have been calculated in the following manner:

- The catchment to the North Pit Lagoon has been calculated as 1.67 km<sup>2</sup>, with the catchment area shown on Figure 1;
- Annual rainfall of 2,228 mm/year has been obtained from the Flood Estimation Handbook Web Service for Penrhyn Quarry; and
- An annual abstraction for the transfer has been calculated by multiplying the catchment area and annual rainfall, giving 3,720,760 m<sup>3</sup>/year.

Based upon the surface water catchment of the North Pit Lagoon and the annual rainfall for Penrhyn Quarry an annual transfer volume of 3,720,760 m<sup>3</sup>/year has been produced.

**Form WRH; Section 9**

Discharge consent no. CG0145301 (formally CF0101201) issued by the Environment Agency, allows discharge of rainfall dependent site drainage by gravity to the Afon Ogwen at SH 61550 66870 in Bethesda via an adit running from North Pit Lagoon.

**Form WRH; Section 13**

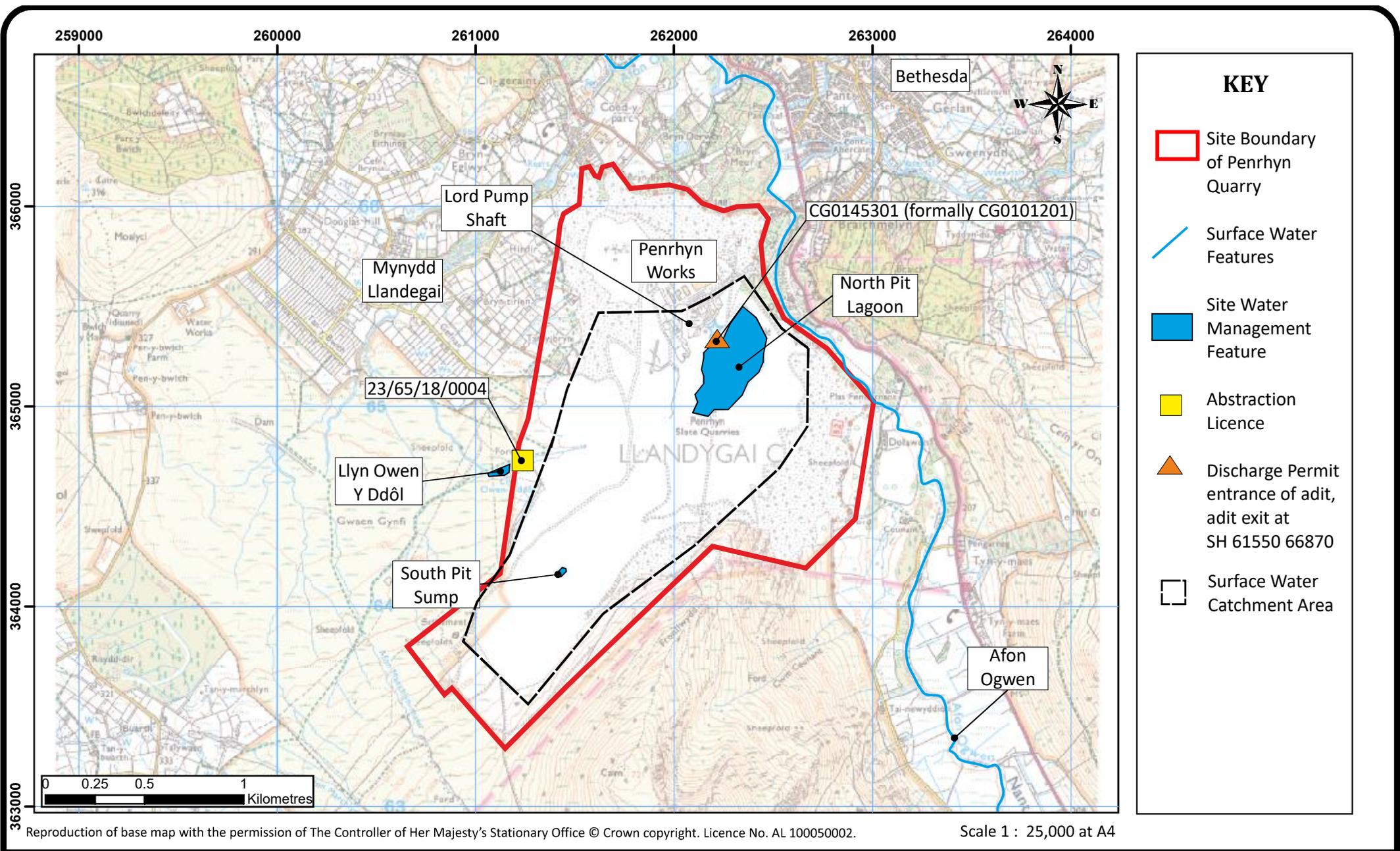
Abstraction licence no. 23/65/18/0004, originally issued in 1965, allows the abstraction of up to 750 m<sup>3</sup>/day from Llyn Owen Y Ddôl for cooling and dust suppression. Water flows under gravity from Llyn Owen Y Ddôl through a concrete adit and into a pipe that feeds two water storage tanks; a meter is used to measure the volume of water abstracted from Llyn Owen Y Ddôl.

**Form WRH; Section 13**

Each of the water management features (excluding the end point of the discharge adit) are within the landholding of Breedon Southern. All activities on site are covered by Planning Permissions C96A/0020/16/MW and C08A/0039/16/MW.

An abstraction point (ABS) is located within the Lord Pump Shaft at SH 62097 65479. Although not currently installed, this pump has been installed and used throughout the Transitional Period and will be reinstalled in the coming months. An application for a full abstraction licence in the process of being applied for under the transitional arrangements (PAN-007483).

**Envireau Water**  
**28/11/19**



**KEY**

- Site Boundary of Penrhyn Quarry
- Surface Water Features
- Site Water Management Feature
- Abstraction Licence
- ▲ Discharge Permit entrance of adit, adit exit at SH 61550 66870
- Surface Water Catchment Area

Reproduction of base map with the permission of The Controller of Her Majesty's Stationary Office © Crown copyright. Licence No. AL 100050002.

Scale 1 : 25,000 at A4

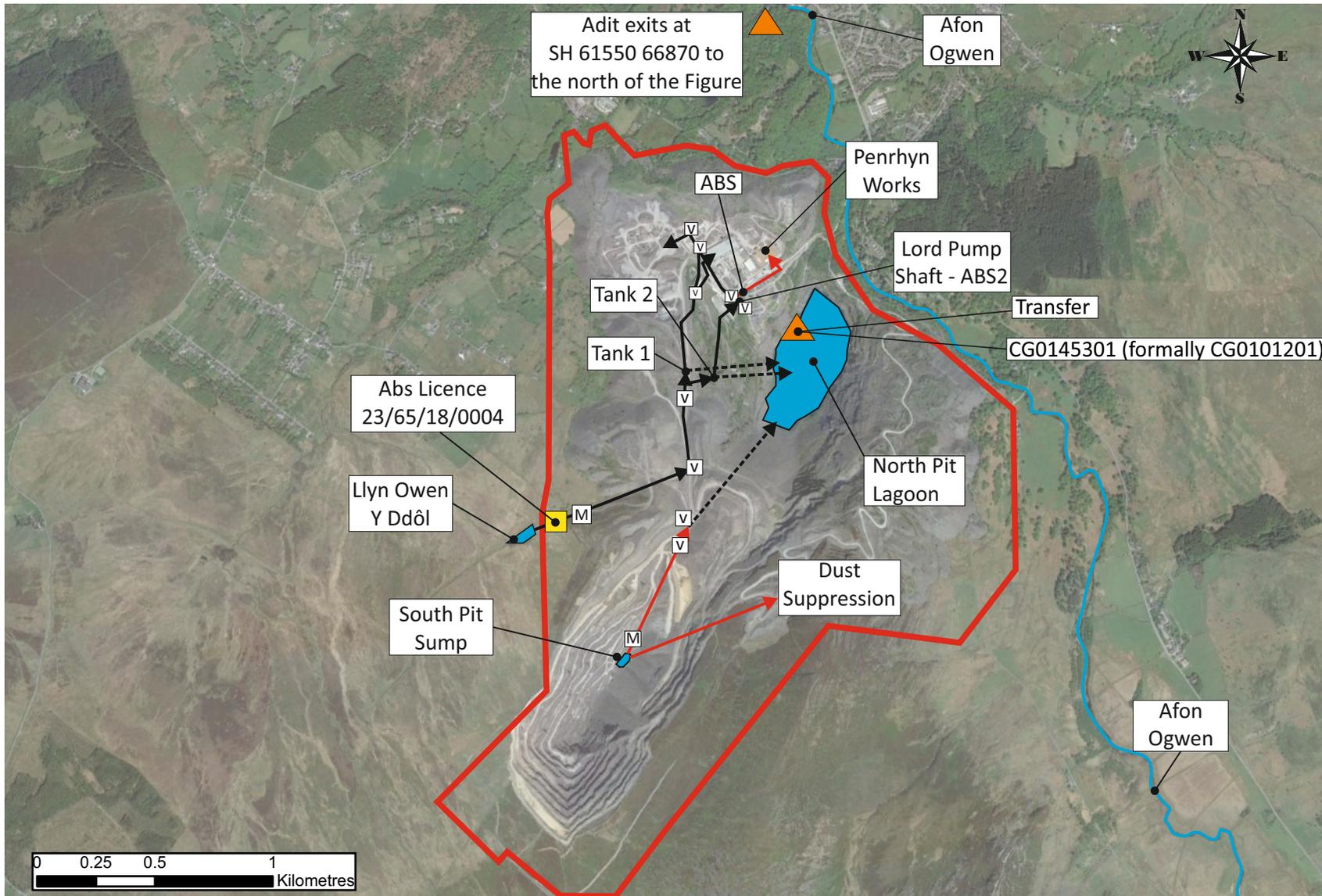


Ref: P19-142\ PEN FIG NA SITE LOC var  
Date: 28/11/2019

Figure 1

**Breedon Southern Limited - New Authorisations Application**

Penrhyn - Site Location



**KEY**

- Site Boundary of Penrhyn Quarry
- Surface Water Features
- Site Water Management Feature
- Pumped flow
- Gravity flow
- - - - - Flow through reject slate
- v Valve or branch
- M Meter

Existing Licences:

- Abstraction Licence
- Discharge Permit entrance of adit, adit exit at SH 61550 66870

Reproduction of base map with the permission of The Controller of Her Majesty's Stationary Office © Crown copyright. Licence No. AL 100050002.

Scale 1 : 25,000 at A4



Ref: P19-142\ PEN FIG NA WMP FIG 2 var  
Date: 28/11/2019

**Breedon Southern Limited - New Authorisations Application**

Figure 2

Penrhyn - Water Management Plan

