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Natural Resources Wales  
Cambria House  
29 Newport Road  
Cardiff  
CF24 0TP

**Ein cyf/Our ref:** GWTL/02/KeBeK

**Eich cyf/Your ref:**

**Dyddiad/Date** 16 November 2019

Dear Sir/Madam

**RE: APPLICATION FOR A TRANSITIONAL WATER RESOURCES LICENCE  
FORM WRH LOWER HOUSE FARM CLARBESTON PEMBROKESHIRE**

Please find enclosed the form WRH for a transitional water resources licence application. The farm currently abstracts its water supply from one borehole to Lower House Farm. The water is used for the stock watering and washdown water and system wash that services the dairy herd.

I enclose the following document in support of the application:

1. Application form WRH
2. Supporting documents

Enclosed is a cheque for £135 to cover the application fee.

Should you have any queries or require further information please do not hesitate to contact KeBeK Ltd.

Yours faithfully

*P.P. Bll*

**Becky Jones  
Director KeBeK Ltd**

Contact details: [becky@kebek.co.uk](mailto:becky@kebek.co.uk) 07901339662





25 NOV 2019

**Cardiff**

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.

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**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

135

Cheque

Credit or debit card

BACS transfer

BACS reference number

PRC

**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

Mr

First name	Ben
Last name	Llewelin
Company, charity, body, or trading name (if relevant)	NG,BG & NL Llewelin
Registered company or charity number (if relevant)	N/A
Address	Lower House
	Clarebeston
	Clarebeston Road
	Pembrokeshire
Postcode	SA63 4QX
Telephone - mobile	
Telephone - office	01437 731316
Email address	

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	Doc 1
Title	Mrs
First name	Rebecca
Last name	Jones
Company or trading name	KeBek Ltd
Position in company	Director
Address	Tynant
	New Quay

Ceredigion

Postcode

SA45 9SA

Telephone - mobile

07901339662

Telephone - office

Email address

becky@kebek.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

N/A

#### 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

N/A

### 3. Site name

#### 3.1 Please provide the site name below:

Site name

Lower House

#### 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

Doc 2

Land forms part of Lower House Farm

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

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

Licence number(s)

N/A

#### 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

N/A



**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

Doc 3

**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

Doc 4, 5, 6

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)
N/A						

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

Document reference(s)

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
Borehole as listed in Doc4	Borehole	SN04846-20860	61	125	5	Glaciofluvial Sand/Gravel	Mydtrim Shales	7.5	35	57

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

Document reference(s)   
 The Borehole is located in front of the dairy at NGR SN04846-20860 and is pumped to the storage tanks at NGR SN04929-21034 before being distributed via the ring main.

**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)

Doc 8

Year	Abstraction location name or reference (as labelled on map)	Purpose(s) water used for	Period of abstraction 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	Borehole Doc 4	Stock Watering	All Year	9658.8	26.46	1.1	0.3055	8.9	E	Water is abstracted on "livestock needs basis" and is based on average intake volumes per livestock age and intake volumes. In line with industry guidance	Y	
	Borehole Doc 4	Parlour Washings	All Year	2376	6.6	0.28	0.0777	2.2	E	The volume of water used for the parlour washings is based on industry guidance	Y	
	Total volume abstracted in 2011 = 12,034.8											
01 January 2012 to 31 December 2012	Borehole Doc 4	Stock Watering	All Year	9838.8	27.03	1.13	0.3138	9.1	E	As Above	Y	
	Borehole Doc 4	Parlour Washings	All Year	2484	6.8	0.28	0.0777	2.3	E		Y	
	Total volume abstracted in 2012 = 12,322.8											
01 January 2013 to 31 December 2013	Borehole Doc 4	Stock Watering	All Year	10018.8	27.4	1.14	0.1366	9.3	E	As Above	Y	
	Borehole Doc 4	Parlour Washings	All Year	2484	6.8	0.28	0.0777	2.3	E		Y	
	Total volume abstracted in 2013 = 12,502.8											
01 January 2014 to 31 December 2014	Borehole Doc 4	Stock Watering	All Year	10353.6	28.3	1.18	0.3277	9.6	E	As Above	Y	
	Borehole Doc 4	Parlour Washings	All Year	2538	6.9	0.29	0.0805	2.4	E		Y	
	Total volume abstracted in 2014 = 12,891.6											
01 January 2015 to 31 December 2015	Borehole Doc 4	Stock Watering	All Year	10533.6	28.8	1.2	0.3333	9.8	E	As Above	Y	
	Borehole Doc 4	Parlour Washings	All Year	2592	7.10	0.3	0.0833	2.4	E		Y	
	Total volume abstracted in 2015 = 13,125.6											
01 January 2016 to 31 December 2016	Borehole Doc 4	Stock Watering	All Year	10868.4	29.7	1.24	0.3444	10.1	E	As Above	Y	
	Borehole Doc 4	Parlour Washings	All Year	2646	7.2	0.3	0.0833	2.5	E		Y	
	Total volume abstracted in 2016 = 13,514.4											

01 January 2017 to 31 December 2017	Borehole Doc 4	Stock Watering	All Year	13352.4	36.5	1.52	0.4222	12.4	E	As Above	Y
	Borehole Doc 4 Total volume abstracted in 2017 = 16,052.4	Parlour Washings	All Year	2700	7.3	0.3	0.0833	2.5	E		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

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)
N/A							

**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

N/A

**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

Doc 4,5 6, and 7

The borehole at Lower House have been drilled to of depth of 61m, the submersible pump depth has been set at 57m resting pump depth has been measured at 7.5m with the pumped water level at 35m. The well head chamber is 600x450mm galvanised lid.

There are currently no means of measuring current abstracted water use The pump rate is set a 3m3 per hour. The volumes used are based on estimated volumes of drinking water per head per day. With reference to industry guidance the following volumes have been used. The estimated calculations are provided in Doc 8.

Parlour washings 30 l/head/day  
 Dairy cow in milk 100 l/head/day  
 Heifers (12-24 month) 50 l/head/day  
 Youngstock (<12 months) 36 l/head/day  
 Bulls 100 l/head/day

The above calculations for the dairy cows are based on animals producing 6000/9000lts per cow. These figures will vary depending on milk production from animals in higher or lower categories.

**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

Doc 8 Summary of stock numbers based on British Cattle Movements (BCMS) reports for the farm.

Groundwater abstraction at Lower House farm has been in operation since before 2000 for the supply of livestock drinking water and dairy cleaning.

Documentation of livestock numbers can be provided from the BCMS system for the period 2011-2017 and a summary of the livestock numbers for the period 2011-17 is provided in Doc 8

**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

N/A

**Table 9.1 - Details of any discharge of abstracted water**

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)
N/A			

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

All livestock water is converted to slurry and urine which is collected in the slurry lagoon prior to application to land as an organic fertiliser. Parlour washings are also contained in the slurry store at Lower House farm and applied to land as an organic fertiliser. This is a valuable and sustainable resource to minimise the use of inorganic fertilisers.

The GW Pump is a DAB S4C-19 with the two storage tanks holding 145,000lts and 212,000lts, in total volume in storage is 357,000lts. See Doc 7

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

Document reference

## 10. Eel considerations

Does your abstraction include measures to safeguard eels?

No

Yes  Provide details below

Ground water abstraction - safeguard for eels not required. The water distribution network and storage tanks are a sealed system.

## 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

#### 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

N/A

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?
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

Require abstraction licence for maximum of 18 years duration as this water supply is essential for livestock drinking water and the operation of a viable and sustainable farm business

## 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

Mrs

R Jones

First name

Rebecca

Last name

Jones

Position

Director KeBec Ltd

Today's date

21/11/2019