

19 August 2019

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

Dear Sir/Madam,

THE WATER RESOURCES (TRANSITIONAL PROVISIONS) REGULATIONS 2017

TREWERN FARM LIMITED

APPLICATION FOR A NEW GROUNDWATER ABSTRACTION LICENCE AT TREWERN FARM, FELINDRE FARCHOG, CRYMYCH, PEMBROKESHIRE

Please find enclosed a formal abstraction licence application on behalf of Trewern Farm Ltd, to cover their historic abstraction of groundwater for dairy stock watering, shed washdown, general farming and domestic use from a borehole at Trewern Farm, Felindre Farchog, Crymych, Pembrokeshire

Enclosed are:

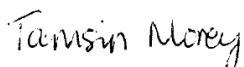
- Application form WRH along with associated Figures and a Continuation Sheet for further information.
- A letter of authorisation from Trewern Farm Ltd allowing Envireau Water to sign forms relating to the abstraction licence application and liaise with the Natural Resources Wales on their behalf.
- Supporting evidence of historic abstraction

Please contact us on 01332 871882 to arrange payment of the £135 application fee by credit card.

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 us.

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

Yours faithfully,



Tamsin Morey MSc CEnv
Principal Water Resources Specialist

19 August 2019

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Ty Cambria
29 Newport Road
Cardiff
CF24 0EY

Dear Sir/Madam,

THE WATER RESOURCES (TRANSITIONAL PROVISIONS) REGULATIONS 2017

TREWERN FARM LIMITED

**APPLICATION FOR A NEW GROUNDWATER ABSTRACTION LICENCE AT TREWERN FARM,
FELINDRE FARCHOG, CRYMYCH, PEMBROKESHIRE**

We hereby authorise Envireau Water of Cedars Farm Barn, Market Street, Draycott, Derbyshire, DE72 3NB to represent and sign on our behalf, forms relating to the submission of an application under the 'Transitional Regulations' for a new groundwater abstraction licence at Trewern Farm, Felindre Farchog, Crymych, Pembrokeshire.

Yours faithfully,



Matthew Watkins

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 | <input type="text" value="£135"/> | | |
| Cheque | <input type="checkbox"/> | | |
| Credit or debit card | <input checked="" type="checkbox"/> | | |
| BACS transfer | <input type="checkbox"/> | BACS reference number | <input type="text" value="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 | <input type="checkbox"/> | Public body | <input type="checkbox"/> |
| Registered company | <input checked="" type="checkbox"/> | Organisation or group of individuals | <input type="checkbox"/> |
| Other | <input type="checkbox"/> | If 'Other', please specify | <input type="text"/> |
| Title | <input type="text"/> | | |

| | |
|---|--|
| First name | |
| Last name | |
| Company, charity, body, or trading name (if relevant) | Trewern Farm Limited |
| Registered company or charity number (if relevant) | 04490816 |
| Address | 21 Gold Tops |
| | Newport |
| | |
| | ** SEE CONTIN SHEET FOR SITE ADDRESS** |
| Postcode | NP20 4PG |
| Telephone - mobile | 07812 121872 |
| Telephone - office | |
| Email address | mandgwatkins@hotmail.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 | Ms |
| First name | Tamsin |
| Last name | Morey |
| Company or trading name | Envireau Water |
| Position in company | Agent to Trewern Farm Lintied |
| Address | Envireau Water |
| | Cedars Farm Barn, Market Street |

| | |
|--------------------|----------------------------|
| | Draycott |
| | Derbyshire |
| Postcode | DE72 3NB |
| Telephone - mobile | 07976 168997 |
| Telephone - office | 01332 871882 |
| Email address | tamsin@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 | <input checked="" type="checkbox"/> | |
| Agent | <input type="checkbox"/> | |
| Other | <input type="checkbox"/> | Please provide contact details for the operational contact on a separate referenced document, and tell us this reference below. |
| Document reference | <input type="text"/> | |

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 | <input checked="" type="checkbox"/> | |
| Agent | <input type="checkbox"/> | |
| Other | <input type="checkbox"/> | Please provide contact details for the operational contact on a separate referenced document, and tell us this reference below. |
| Document reference | <input type="text"/> | |

Abstraction records

| | | |
|--------------------|-------------------------------------|---|
| Applicant | <input checked="" type="checkbox"/> | |
| Agent | <input type="checkbox"/> | |
| Other | <input type="checkbox"/> | Please provide contact details for the operational contact on a separate referenced document, and tell us this reference below. |
| Document reference | <input type="text"/> | |

3. Site name

3.1 Please provide the site name below:

| | |
|-----------|--------------|
| Site name | Trewern Farm |
|-----------|--------------|

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

Figure 1

4.3 Do you have a legal right of access to the land where the abstraction takes 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

Figure 1

Trewern Farm Ltd has right of access to the land at the Site as outlined in red on Figure 1 as the owners of the land.

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 |
|----------|

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

| |
|--|
| |
|--|

| 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) |
| | | | | | | |
| | | | | | | |
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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 |
| A | Borehole | SN 08723 38333 | 73m | 102 | Steel to ~ 3.5m, open Hole below | N/A | Fishguard Volcanic Group – Tuff and Lava | Unknown | Unknown | 70m |
| | | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |

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

Document reference(s)

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)

MW Historical Water Usage.xlsx

| Table 8.1 | | | | | | | | | | | |
|-------------------------------------|---|---------------------------|---|-------------------------------|--------------------|---------------------|--|--|---|--|--|
| Year | Abstraction location name or reference (as labelled on map) | Purpose(s) water used for | Period of abstraction | 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) |
| | | | All year, or months, or days (provide specific dates) | 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 | A | Parlour Washdown | All year | 17082 | 47 | 6.5 | 1.8 | 8 | E | *See MW Cont Sheet | No |
| | | Cattle Drinking | All year | 26572 | 73 | 6.5 | 1.8 | 16 | E | | No |
| | | Domestic Water Supply | All year | 657 | 1.8 | 0.1 | 0.03 | 16 | E | | No |
| | | Agrochemical Spraying | April - August | 25 | 6 | 6 | 1.7 | 1 | E | | No |
| | | Machinery Washing | All year | 164 | 0.5 | 0.45 | 0.25 | 0.5 | E | | No |
| | | | | | | | | | | | |
| 01 January 2012 to 31 December 2012 | A | Parlour Washdown | All year | 17575 | 48 | 6.5 | 1.8 | 8 | E | | No |
| | | Cattle Drinking | All year | 27339 | 75 | 6.5 | 1.8 | 16 | E | | No |
| | | Domestic Water Supply | All year | 657 | 1.8 | 0.1 | 0.03 | 16 | E | | No |
| | | Agrochemical Spraying | April - August | 25 | 6 | 6 | 1.7 | 1 | E | | No |
| | | Machinery Washing | All year | 164 | 0.5 | 0.45 | 0.25 | 0.5 | E | | |
| | | | | | | | | | | | |
| 01 January 2013 to 31 December 2013 | A | Parlour Washdown | All year | 18396 | 50 | 6.5 | 1.8 | 8 | E | | No |
| | | Cattle Drinking | All Year | 28616 | 78 | 6.5 | 1.8 | 16 | E | | No |
| | | Domestic Water Supply | All year | 657 | 1.8 | 0.1 | 0.03 | 16 | E | | No |
| | | Agrochemical Spraying | April - August | 25 | 6 | 6 | 1.7 | 1 | E | | No |
| | | Machinery Washing | All year | 164 | 0.5 | 0.45 | 0.25 | 0.5 | E | | No |
| | | | | | | | | | | | |
| 01 January 2014 to 31 December 2014 | A | Parlour Washdown | All year | 18478 | 51 | 6.5 | 1.8 | 8 | E | | |
| | | Cattle Drinking | All year | 28744 | 79 | 6.5 | 1.8 | 16 | E | | No |
| | | Domestic Water Supply | All year | 657 | 1.8 | 0.1 | 0.03 | 16 | E | | No |
| | | Agrochemical Spraying | April - August | 25 | 6 | 6 | 1.7 | 1 | E | | No |
| | | Machinery Washing | All year | 164 | 0.5 | 0.45 | 0.25 | 0.5 | E | | No |
| | | | | | | | | | | | |
| 01 January 2015 to 31 December 2015 | A | Parlour Washdown | All year | 18725 | 51 | 6.5 | 1.8 | 8 | E | | Yes |
| | | Cattle Drinking | All year | 29127 | 80 | 6.5 | 1.8 | 16 | E | | Yes |
| | | Domestic Water Supply | All year | 657 | 1.8 | 0.1 | 0.03 | 16 | E | | Yes |
| | | Agrochemical Spraying | April - August | 25 | 6 | 6 | 1.7 | 1 | E | | Yes |
| | | Machinery Washing | All year | 164 | 0.5 | 0.45 | 0.25 | 0.5 | E | | Yes |
| | | | | | | | | | | | |
| 01 January 2016 to 31 December 2016 | A | Parlour Washdown | All year | 18396 | 50 | 6.5 | 1.8 | 8 | E | | No |
| | | Cattle Drinking | All year | 28616 | 78 | 6.5 | 1.8 | 16 | E | | No |
| | | Domestic Water Supply | All year | 657 | 1.8 | 0.1 | 0.03 | 16 | E | | No |
| | | Agrochemical Spraying | April - August | 25 | 6 | 6 | 1.7 | 1 | E | | No |
| | | Machinery Washing | All year | 164 | 0.5 | 0.45 | 0.25 | 0.5 | E | | No |
| | | | | | | | | | | | |
| 01 January 2017 to 31 December 2017 | A | Parlour Washdown | All year | 18527 | 51 | 6.5 | 1.8 | 8 | E | | No |
| | | Cattle Drinking | All year | 28820 | 79 | 6.5 | 1.8 | 16 | E | | No |
| | | Domestic Water Supply | All year | 657 | 1.8 | 0.1 | 0.03 | 16 | E | | No |
| | | Agrochemical Spraying | April - August | 25 | 6 | 6 | 1.7 | 1 | E | | No |
| | | Machinery Washing | All year | 164 | 0.5 | 0.45 | 0.25 | 0.5 | E | | No |
| | | | | | | | | | | | |

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

| 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 MW Cont Sheet & Figure 2

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

MW Historical Water Usage.xlsx

Consistent production / export of 950,000 – 1,000,000 litres of milk per month for the full qualifying period (2011-17). All data registered with DEFRA.

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

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) |
|--|---|--|---|
| | | | |
| | | | |
| | | | |
| | | | |

9.2 Please provide a description of discharge structures and equipment

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

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

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? |
|---|---|--|--|
| | | | |
| | | | |
| | | | |
| | | | |

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

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

Ms

First name

Tamsin

Last name

Morey

Position

Agent to Trewern Farm Ltd

Today's date

19/08/2019

THE WATER RESOURCES (TRANSITIONAL PROVISIONS) REGULATIONS 2017

APPLICATION FOR A NEW ABSTRACTION LICENCE FROM GROUNDWATER AT TREWERN FARM

Continuation Sheet

Overview/Background

Trewern Farm Limited have been abstracting water at Trewern Farm, Felindre Farchog, Crymych, Pembrokeshire since 1985.

Trewern Farm covers approximately 143 acres and the business consists of dairy cattle grazing, housing and milking as well as the growth of arable crops. The farm is not connected to a mains water supply therefore



abstracted water is used for all water needs at the site including domestically for a number of properties, vehicular washdown, stock drinking, milk cooling and washdown of cattle housing / milking sheds.

Abstraction takes place from a single borehole (Point A on Figure 1) and has previously been exempt from licencing through the groundwater geographically exempt areas exemption.

This application covers abstraction from 'Trewern Farm' point A.

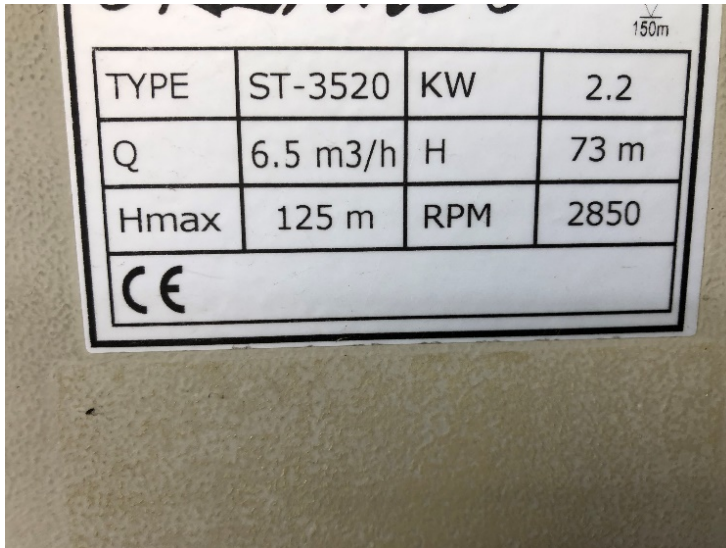
Section 2.1 – Applicant Details

Site / daily correspondence address / contact is:

Matthew Watkins,
Trewern Farm,
Felindre Farchog,
Crymych,
Pembrokeshire,
SA41 3XE.

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

The pump installed in the borehole is an Orlando ST-3520 with a capacity of 6.5m³/hr.

**Water distribution and storage**

Water is abstracted from the borehole (point A) and used within the red line boundary on Figure 1 for milk production including washdown and drinking), domestic water supply, agrochemical spraying and machinery washing. A schematic showing each use is shown in Figure 2.

Water is used directly from the borehole with no intervening storage prior to initial use. Cooling water is used to fill a tank in the parlour (4,500 litres) for re-use for parlour washdown, filling crop spraying bowsters and washing down vehicles/machinery.



Assessment of water requirement

There is no flow meter installed on the borehole. Historical usage volumes have been calculated from industry standard usage figures for milking cattle and domestic use and site estimated usage based on operational procedure.

The historical usage volumes are presented in 'MW Historical Water Usage.xlsx' Excel workbook which accompanies this application.

- Milk cooling

Water is routed to the drinking troughs and washdown buffer tank through the plate cooler to perform a dual function and maximise the efficiency of water use on the farm. Cattle prefer warmer water and water does not need to be cool for washdown use. All cooling water is reused so usage has not been calculated separately.

- Cattle drinking and Parlour washdown

Standard usage figures from 'R&D Best Practice Manual W6-056/TR for industry and agriculture' have been used for milking cattle drinking per head and parlour washdown using power hoses.

Washdown takes place after each milking (3 x per day).

Cleaning the milking machinery takes place by reverse flushing the system with hot / cold water rinses.

Water is sourced from the borehole via the cooling system and buffer tank.



- Domestic

Trewern Farm includes 3 domestic properties and 4 caravans which house 12 people / workers all year. Domestic water volumes provided to the properties have been estimated based on the number of occupants and water flow rates (150l/d/pp) as suggested in the British Water - Codes of Practice: Flows and Loads.

- Vehicle washdown

Three agricultural vehicles are washed down using a pressure washer (Interpump WS201) every day of the year. Flow rate (15l/min) and normal wash duration (10 mins) have been used to estimate use.



- Agrochemical Spraying

70 acres (28.3Ha) of Wheat is grown on the farm annually on which water is used for agrochemical spraying. 40Ha of Grassland is also sprayed for Dock control. Application rate (200l/Ha) and number of applications per year (4) have been used to estimate use.

Envireau Water
19/08/2019

