

# Application for an environmental permit: Part B6 - new bespoke water discharge activity and groundwater (point source) activity v1

## About you

Who will be the permit holder?

A registered company (including limited liability partnerships) or other corporate body

## Registered company or other corporate body

Please provide details below

**Company name:** Darwin (Plas Isaf) Limited  
**Company address:** Empire House, 175 Piccadilly  
London  
**Company postcode:** W1J 9EN  
**Company registration number:** 11763589  
**Date of registration (DD/MM/YYYY):** 14/01/2019

Contact name for the company

**Title** -  
**First name:** Dean  
**Last name:** Ricks  
**Email:** dean@darwinalternatives.com  
**Telephone:** 020 4504 0035

## Is somebody completing this application on your behalf?

Tell us if you're using an agent or somebody else to complete this application on your behalf

Yes – I'm completing this application on behalf of somebody else

## Agent or others acting on behalf of the applicant

### Complete your details:

**First name:** Sophie  
**Last name:** Bowman  
**Address:** RA Dalton Ltd, Burtree Ford, Cowshill  
**Postcode:** DL13 1DB  
**Telephone:** 01388418233  
**Email address:** qhse@radalton.co.uk

## 1 Pre-application discussions

Did you have pre-applications discussions with Natural Resources Wales about this activity?

No

## Where will you be discharging?

Please complete

**Site name** Plas Isaf Lodge Park  
**Address** Caerwys Hill, Mold  
Caerwys  
**Postcode** CH7 5AD

Please provide the 12 character national grid reference of the location of your septic tank / sewage treatment plant. This consists of two letters followed by 10 numbers (for example AB 12345 67890)

To find out the 12 character grid reference, you can search on the UK grid reference finder website: <http://www.gridreferencefinder.com/>

SJ 13322 72232

## About the effluent

Give a brief description of the effluent discharge you want a permit for, for example, treated domestic sewage effluent.

Treated domestic effluent from 57 holiday lodges.

Give this effluent a unique name

This name will be used throughout the application and may be used in the permit to identify this effluent. If you have more than one effluent you must ensure that each name you use is distinct. For example, package sewage treatment plant effluent, septic tank effluent, cooling water, site drainage and so on.

Effluent 1

Is this a release from a dam, weir or sluice ('reservoir release') under Schedule 21 of the EPR meaning of water discharge activity?

No

Tell us the effluent type:

You must fill in a separate copy of this form for each type of effluent you plan to discharge.

Domestic sewage – 20m<sup>3</sup> a day or more discharged to surface water or 15m<sup>3</sup> a day or more discharged to groundwater. Any discharge to groundwater via a borehole, well or other deep structure.

## Domestic sewage: How long will you need to discharge?

What date do you want the permit for this effluent to start?

You cannot discharge your effluent prior to this start date on your permit. This is the date that your annual subsistence charges will start, even if you have not started to discharge.

\* 12/08/2024

Is the discharge time limited?

No

For seasonal discharges which only occur for part of the year, tells us when the discharge will take place. Where a discharge will continue at a significantly lower rate over a period you should complete this question and also send in details of the seasonal variation. For example, campsites which are closed in winter but have a residual throughput from residential properties on site all year.

Will the discharge take place all year?

Yes

Will the discharge take place on more than six days in any year?

If you answer 'no' you must be able to comply with the requirement to discharge on six days or fewer in any year as this will be a permit condition. It would apply only to batch processes such as the emptying of fish rearing ponds or planned shutdowns of plant or equipment.

Yes

## Domestic sewage: How much do you want to discharge?

What is the maximum volume of effluent you will discharge in a day (in cubic metres)?

This is the maximum volume that will be discharged in any day. You must ensure that you choose a volume you can always comply with.

For guidance on calculating the volume use the Code of Practice: 'Flows and Loads 4 – Sizing Criteria, Treatment Capacity for Small Wastewater Treatment Systems which is published by British Water.

34.8

Tell us how you have calculated this figure in the box below, or upload a copy of your workings in the next question.

Please find attached the sizing sheet

Tell us how you have calculated this figure by uploading a copy of your workings.

- File: Sizing Sheet.pdf - [Download](#)

## Could your discharge be made to the foul sewer?

Is your discharge

From another type of premises (for example a pub, cafe, restaurant, campsite or office?)

## Could your discharge from other premises be made to the foul sewer?

How far away is the nearest foul sewer from the boundary of the properties (in metres)?

You will need to check this with your sewerage undertaker (usually your local water company) and you may also need to check if it is possible to connect to a private foul sewer. Measure the shortest distance between the boundary of premises served by the private sewage treatment system and the nearest foul sewer and/or private sewer.

501.5

Discharges from all other premises, for example a pub, cafe, restaurant or office

Divide the volume of the discharge (in cubic metres) by 0.75 and then multiply this figure by 30 metres

	Volume of discharge (in cubic metres)	Divided by 0.75	Multiplied by 30 metres
<b>Your premises</b>	34.8	46.4	1392

Is this distance you've calculated greater than the distance to the nearest foul sewer you've provided above?

Yes

## Domestic sewage: How will the effluent be treated?

Do you treat your effluent?

Yes

Please fill in the table below for each stage of the treatments carried out on your effluent in the order in which they are carried out. . If you prefer, you can upload an overall design for the whole treatment process below

	Code number
<b>First treatment</b>	01 Package treatment plant which meets BS 12566
<b>Second treatment</b>	-
<b>Third treatment</b>	-
<b>Fourth treatment</b>	-

Final effluent discharge quality

You must provide details of the final effluent discharge quality that the overall treatment system is designed to achieve. This should be after all the stages of treatment you have listed in the table above. For discharges of treated domestic sewage effluent this must include biochemical oxygen demand, suspended solids and ammonia. For trade effluent discharges, the substances should reflect the substances that are likely to be present in the final effluent discharge.

Please upload this and any supporting documents here.

- File: KEE40HR O&M Manual.pdf - [Download](#)
- File: KEE40HR line drawing.pdf - [Download](#)

## Domestic sewage: What will be in the effluent?

Are any 'specific substances' added to or present in the effluent as a result of the activities on the site?

You may add chemicals to the effluent during the treatment process; for example, iron salts to remove phosphate. Or you may have substances present in your effluent as a result of activities on your site; for example, chromium can be present in effluents from concrete batching plants.

No

Are there any other harmful or hazardous substances in your effluent not mentioned in the environmental risk assessment guidance?

The list in the environmental risk assessment guidance is not exhaustive and if you accept, add or detect any other harmful substance (including hazardous substances or relevant non-hazardous pollutants as described above) you will need to tell us.

No

## Domestic sewage: Monitoring arrangements

Please provide the 12 character national grid reference of the final effluent sample point.

This is the sample point used to assess compliance with any water quality emission limits on your permit. You must ensure that it allows a representative sample of the discharge to be obtained. You must also ensure that all constituents of the discharge pass through the sampling point at all times. The sample point can be where the effluent meets the receiving environment only in cases where no other effluent is added before this point. You must provide a permanent means of access to monitoring points.

A 12 character national grid reference consists of two letters followed by 10 numbers (for example AB 12345 67890). To find out the 12 character grid reference, you can search on the UK grid reference finder website: [gridreferencefinder.com](http://gridreferencefinder.com)

SJ 13375 72152

Do you have a UV disinfection efficacy monitoring point?

This type of monitoring point is only required for discharges that undergo some form of disinfection. For example, ozone or ultraviolet disinfection, membrane filtration etc.

No

What is the 12 character national grid reference of the flow monitoring point?

A 12 character national grid reference consists of two letters followed by 10 numbers (for example AB 12345 67890). To find out the 12 character grid reference, you can search on the UK grid reference finder website [gridreferencefinder.com](http://gridreferencefinder.com)

SJ 13322 72232

Does the flow monitor have an MCERTS certificate?

No

## Your management systems

What management system will you provide for your regulated facility?

Own management system

I confirm that I have read the guidance and that my management system will meet NRW requirements.

Yes

You must send a suitable summary of your management system with your application – that includes enough information to allow us to assess whether your full system meets the standards set out in our guidance.

- File: EMS - Template.docx - [Download](#)

## Where will the effluent discharge to?

Where will the effluent discharge to?

Into land (for example, through a drainage system)

Is this effluent discharged through more than one outlet?

Effluents are usually discharged to one location in one receiving environment. If your effluent will be discharged to more than one location within the same receiving environment, for example, two different discharge points on a non-tidal river, you can provide details of every discharge point on the next page.

If your effluent discharges to more than one location in a different receiving environment, for example, into land and to a non-tidal river you will need to select both receiving environments above and complete the relevant sections on the following pages.

No

Are there any other factors we need to take into account as part of your application?

No

## Discharges into land

Give the discharge point a unique name, for example, 'Outlet 1' (you must use this name to identify the discharge point on the plan) and the national grid reference

	Discharge point name	National grid reference	Name of effluent discharged through this discharge point
1	Drainage Field	SJ13353 72121	Effluent 1
2	-	-	-
3	-	-	-
4	-	-	-
5	-	-	-

Is your infiltration system new or existing?

On or after 1 April 2010 (new)

When was it built?

31/03/2023

Is your infiltration system designed and built to British Standard 6297:2007 + A1:2008?

An infiltration system is a restricted and well-defined area of ground designed to allow liquid to drain into the surrounding soil. It typically includes a system of sub surface perforated pipe. New infiltration systems must be built to British Standard 6297:2007 + A1:2008. This ensures that the size of the drainage field is appropriate to the rate of discharge and the infiltration capacity of the ground, minimising the risk of pollution to groundwater.

Yes

On what date did you carry out a percolation test and dig trial holes in line with British Standard 6297:2007 + A1:2008?

\* 15/07/2021

Please upload a site plan showing the location of the trial puts used for the percolation test.

- File: Plas Isaf percolation results report July 2021.docx - [Download](#)



What is your percolation value (Vp) result (seconds per millimetre)?

Drainage field disposals should only be used when percolation tests indicate average values of Vp between 15 and 100 and the preliminary assessment of the trial hole tests has been favourable. The minimum value of 15 ensures that untreated effluent cannot percolate too rapidly into groundwater. Where Vp is above the limit of 100 effective treatment is unlikely to take place in a drainage field as there will be inefficient soakage in this location which may lead to sewage ponding on the surface.

32

You must show in the table below how you worked out the percolation value.

	Trial 1	Trial 2	Trial 3	Average
Hole 1	29	31	33	31
Hole 2	32	35	38	35
Hole 3	26	29	32	29

For sewage treatment plants

	p	x Vp	x 0.20 (in square metres)
For sewage treatment plants	224	7168	1433.6

Is any part of your infiltration system within 50 metres of a well, spring or borehole?

No

Is the well spring or borehole you have identified used to supply water?

No

Is any part of your infiltration system within 10 metres of a watercourse?

No

## Environmental risk assessment and modelling

You must carry out a groundwater quantitative risk assessment following the guidance in 'Groundwater risk assessment for your environmental permit'. We cannot undertake assessments on your behalf, but we can offer advice as to what needs to be done through our pre-application advice service. If you do not have the skills to do this yourself, then you will need to engage a consultant to advise you and to undertake the assessment. This risk assessment should be based on our guidance 'Groundwater risk assessment for your environmental permit' available from Gov.UK and 'H1 Risk Assessment Horizontal Guidance Note H1 Annex J – Groundwater

If you're applying to discharge as part of a groundwater remediation schemes you must send us a site-specific remediation strategy which has been agreed with the Natural Resources Wales Geoscience Team. This should include: Conceptual model; Quantitative site-specific risk assessment; Site-specific remedial targets; Details of the contaminant concentrations contained within the proposed discharge

Upload your groundwater risk assessment

- File: Darwin (Plas Isaf) Ltd - Groundwater Risk Assessment Report - October 2022\_.pdf - [Download](#)

## Site plan

You must provide a site plan for your proposed discharge which is A4 in size or larger, and at 1:10,00 scale or larger.

On your plan you must show: which direction North is; the premises discharging effluent; the site in relation to the local area; any watercourses, wells, springs or boreholes on the site (or within 50 metres); the location of the wastewater treatment system all outlets where effluent will be discharged into the receiving environment; where samples of effluent can be taken automatically or manually (if required); where flow or quality will be measured (if required).

You may submit more than one plan if necessary.

Please upload your plan(s) below

- File: Site Plan.docx - [Download](#)

## How do you want to pay?

Who can we talk to you about your billing or invoice?

Same as application contact

How do you want to pay for your application fee?

Electronic transfer (e.g. BACS)

## Paying by electronic transfer

Please provide your reference for the payment.

**Payment reference:** Plaslsaf001

**Amount paid:** £5778.00

## How we collect your personal data

We will process the information provided by you in line with the Data Protection legislation. For more information on how we manage, store and use your data, see our Privacy Notice (opens in new tab)

I have read and understood this information

## Freedom of Information

Under the Freedom of Information Act 2000, anybody may request information from a public authority. The Act grants two statutory rights: to be told if the public authority holds that information; and if so, to have that information communicated to you.

Find out how to request information under the Freedom of Information Act.

I have read and understood this information

## Confidentiality and National Security

We will normally put all the information in your application on a public register of environmental information. However, we may not include certain information in the public register if this is in the interests of national security, or because the information is confidential. Confidential information is information that is commercially or industrially confidential in relation to any person and is unlikely to be applicable for small-scale sewage discharges.

You can ask for information in the public register to be made confidential or withheld in the interests of national security by answering the question below and provide information on the next page giving your reasons. If we agree with your request, we will tell you and not include the information in the public register. If we do not agree with your request, we will let you know how to appeal against our decision, or you can withdraw your application.

Do you believe that for reasons of confidentiality or national security your details should not be included on the public register?

No

## Declaration

A relevant person should make the declaration. You must be a relevant person or have the authority of a relevant person to sign this application on their behalf. An agent acting on behalf of an applicant is NOT a relevant person.

Each individual (or individual trustee) who is applying for their name to appear on the permit must complete this declaration. You can send a separate document with the relevant information if there are not enough spaces to sign below.

Relevant people means each applicant, and in the case of a company, a director, manager, company secretary or any similar officer or employee listed on current appointments in Companies House. In the case of a Limited Liability Partnership (LLP), it includes any partner. If the permit holder is an organisation of individuals, each individual (or individual trustee) must complete the declaration.

To simplify and speed up the application process, we recommend that the declaration is filled in by an officer of a company or one of the partners in a Limited Liability Partnership (LLP).

If you wish a manager, employee or consultant etc. to sign the declaration on behalf of a relevant person, we will need written confirmation from a relevant person; that is, an officer of the company, a partner in the LLP or the individual, confirming that the person has the authority to fill in the declaration.

If you are joint permit holders, you should each fill in your own declaration. We have provided extra spaces for this below. Please upload a separate sheet with your application if you need more room for signatories.

Where the operator is the subject of any insolvency procedure, the declaration must be filled in by the official receiver/appointed insolvency practitioner.

I have included written confirmation from a relevant person to confirm I can sign on their behalf

Upload written confirmation here

- File: Confirmation to Sign Declaration.pdf - [Download](#)

If you knowingly or recklessly make a statement which is false or misleading to help you get an environmental permit (for yourself or another person), you are committing an offence under the Environmental Permitting (England and Wales) Regulations 2016.

I declare that the information in this application is true to the best of my knowledge and belief. I understand that this application may be refused or approval withdrawn if I give false or incomplete information.

I understand that if I knowingly or recklessly make a false or misleading statement: I may be prosecuted; and if convicted, I may have to pay a fine and/or go to prison.

By signing below, you are confirming that you understand and agree with the declaration above.

<b>Title</b>	-
<b>First name</b>	Dean
<b>Last name</b>	Ricks
<b>On behalf of (if applicable)</b>	Darwin Alternative Investment
<b>Date (DD/MM/YYYY)</b>	04/06/2024

## Submit your application

Enter the email address you'd like a copy of your application sent to:

qhse@radalton.co.uk