

# Application for fish pass approval



## Introduction

**Please read through the guidance notes and this application form carefully before you fill this form in.**

It should take you about 40 minutes to fill in this form.

If you are not sure about anything, phone us on 08708 506 506 between 8am and 6pm, Monday to Friday.

This form is designed to help you provide the information we need to understand and approve the design and dimensions of your proposed fish pass. However, designing fish passes is very specialised and technical, so you should read the Environment Agency Fish Pass Manual (or other similar publications) which is on our website at [https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\\_data/file/298053/geho0910btbp-e-e.pdf](https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/298053/geho0910btbp-e-e.pdf).

Because of the specialised nature of the information we need, we recommend that you use specialist consultants to make sure the design is appropriate and you provide enough details.

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## 1 Site details

### 1.1 What is the name of the site?

### 1.2 National Grid Reference of the site (10 figures)

### 1.3 Name of watercourse

### 1.4 Watercourse order

Please give the watercourse name, and then each successive river until the primary watercourse reaches the sea, as watercourse/tributary of 1/tributary of 2/...../tributary of n/Sea.

## 2 Details of the obstruction

### 2.1 What type of obstruction is the pass designed to overcome?

### 2.2 What is the purpose of the obstruction?

### 2.3 Describe the obstruction, including any relevant control structures and associated channels

## 2 Details of the obstruction, continued

### 2.4 What is the overall length (in metres) of the crest of the obstruction?

metres

### 2.5 What is the maximum difference between upstream and downstream water levels at the structure?

metres

### 2.6 Who owns the obstruction and the riverbanks at the obstruction?

Title (Mr, Mrs, Miss and so on)

First name

Last name

Position

Address

Postcode

Country

Contact numbers, including the area code

Phone

Fax

Mobile

Email

### 3 Fish pass design and ownership details

#### 3.1 Who has designed the fish pass?

Title (Mr, Mrs, Miss and so on) \_\_\_\_\_

First name \_\_\_\_\_

Last name \_\_\_\_\_

Position  
\_\_\_\_\_

Company name  
\_\_\_\_\_

Address  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Postcode \_\_\_\_\_

Country  
\_\_\_\_\_

Contact numbers, including the area code

Phone \_\_\_\_\_

Fax \_\_\_\_\_

Mobile \_\_\_\_\_

Email \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### 3 Fish pass design and ownership details, continued

#### 3.2 Who will own and operate the fish pass?

The person named in 2.6

Another person

Give their details below.

Title (Mr, Mrs, Miss and so on) \_\_\_\_\_

First name \_\_\_\_\_

Last name \_\_\_\_\_

Position  
\_\_\_\_\_

Address  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Postcode \_\_\_\_\_

Country  
\_\_\_\_\_

Contact numbers, including the area code

Phone \_\_\_\_\_

Fax \_\_\_\_\_

Mobile \_\_\_\_\_

Email \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

#### 3.3 Name of the lead Environment Agency officer (if any) involved with this pass

\_\_\_\_\_

## 4 Fish species and period of migration

**4.1 Provide details of the species the pass is designed for and identify other species at this site which the pass would benefit. Put ticks in the table below and indicate a size range for each species.**

Species	Pass designed for	Species also present	Length range of fish species (cms)
Salmon			From      to
Sea trout			From      to
Brown trout			From      to
Eels			From      to
Shad			From      to
Lamprey			From      to
Sea lamprey			From      to
River lamprey			From      to
Brook lamprey			From      to
Grayling			From      to
Fast water coarse fish, for example barbel, chub and dace			From      to
Slow water coarse fish, for example roach, bream, pike			From      to
Minor species, for example bullhead, minnows, stone loach			From      to

**4.2 Will the pass operate all year, or is it intended to operate during shorter periods that coincide with the relevant species' movement patterns?**

All year

Shorter periods

If a shorter period, name the species groups (as named above) and state the periods when the pass will operate for them.

Species	Months of year

## 5 River discharge and water levels

### 5.1 Annual river discharge

Fill in the table below to provide a summary of the annual discharge, in cubic metres per second (m<sup>3</sup>/s) to two decimal places, for the percentile exceedance values shown (see the guidance notes).

Percentile exceedance value	Annual discharge (m <sup>3</sup> /s)
5	
10	
50	
90	
95	
ADF (Annual Daily Mean Flow)	

## 5 River discharge and water levels, continued

### 5.2 Range of river discharge the pass is expected to operate over

	Percentile exceedance	m <sup>3</sup> /s
Lowest flow	Q	
Highest flow	Q	

### 5.3 River water levels, above ordnance datum (mAOD), corresponding with the flows identified in 5.2

	Upstream level	Downstream level	Estimated or measured?	How were they estimated or measured?
Lowest flow				
Highest flow				

### 5.4 Is the fish pass for eel only?

Yes  Go to section 7

No  Go to section 6

## 6 Description of fish pass, operating flows, and intended operating periods

Please include plans and sectional elevations of all relevant parts of the pass and adjacent structures (see the guidance under 'Documents you need to provide' in the guidance notes).

### 6.1 Type of fish pass

\_\_\_\_\_

### 6.2 Description of the fish pass

### 6.3 Explain why you plan to have the pass at the location you propose, and any factors that restrict where the pass can be located

### 6.4 How is the pass location and operation designed to make sure that fish are attracted to the fish pass across the intended river discharge operating range?

Percentile exceedance value	River discharge (m <sup>3</sup> /s)	Pass discharge (m <sup>3</sup> /s)	Augmentation flow, if any (m <sup>3</sup> /s)	Total attraction flow as % of river discharge
5				
10				
50				
90				
95				

### 6.5 Describe how the operation of any nearby water-control structures may affect the performance of the pass

**6 Description of fish pass, operating flows, and intended operating periods, continued****6.6 Does the fish pass include a pool pass?**Yes No  Go to 6.9**6.7 Describe how the pool pass will operate to allow fish to pass upstream, including the changing hydraulic conditions within it over the range of river discharge when the pass is expected to operate**

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**6.8 Summarise the operating conditions at the limits of operation in the following table**

	Length and width (metres)	Average minimum depth at lowest river discharge (metres)	Average maximum depth at highest river discharge (metres)	Maximum head difference at lowest river discharge (metres)	Minimum head difference at highest river discharge (metres)	Minimum power density (watts per cubic metre)	Maximum power density (watts per cubic metre)
1st pool (upstream)							
2nd pool							
nn							
Tailwater							

**6.9 Does the fish pass include a baffle pass?**Yes No  Go to 6.13**6 Description of fish pass, operating flows, and intended operating periods, continued****6.10 Describe how the baffle pass will operate to allow fish to pass upstream, including the changing hydraulic conditions within it over the range of river discharge when the pass is expected to operate**

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**6.11 Give details of the operating conditions at the river discharge limits the baffle pass will operate at**

	Flight 1	Flight 2	Flight 3	Flight 4
Upstream pass slope invert elevation (metres above ordnance datum)				
Upstream pass hydraulic invert elevation (metres above ordnance datum)				
Downstream pass slope invert elevation (metres above ordnance datum)				
Downstream pass hydraulic invert elevation (metres above ordnance datum)				
Head difference of slope (metres)				
Length of slope (metres)				
Slope (as a percentage gradient)				
Minimum hydraulic head (Ha) on top baffle (metres)				
Minimum hydraulic head (Ha) on tail baffle (metres)				
Maximum hydraulic head (Ha) on top baffle (metres)				
Maximum hydraulic head (Ha) on tail baffle (metres)				
Mean velocity (metres per second) at minimum pass flow				
Mean velocity (metres per second) at maximum pass flow				

## 6 Description of fish pass, operating flows, and intended operating periods, continued

### 6.12 Are resting pools needed?

Yes  Give details of the operating conditions in the table below

No  Go to 7.1

	Length and width (metres)	Average minimum depth at lowest river discharge (metres)	Average maximum depth at highest river discharge (metres)	Maximum head difference at lowest river discharge (metres)	Minimum head difference at highest river discharge (metres)	Minimum power density (watts per cubic metre)	Maximum power density (watts per cubic metre)
1st pool (upstream)							
2nd pool							
nn							

### 6.13 For combined passes and passes other than pool passes or baffle passes, provide a description of the proposal, as in 6.7 to 6.12

## 7 Eel passes

Are the passes specifically designed for eels?

Yes  Fill in the rest of this section 7

No  Go to section 8

### 7.1 Type of eel pass

### 7.2 Description of eel pass

### 7.3 Is the eel pass pump fed?

No  Go to 7.4

Yes  Give the following details

Pump capacity at the target head level  
 \_\_\_\_\_ litres per minute

How will the pump be powered (for example, mains electricity, battery, solar power, wind power, or other)?

How is water fed into the head of the pass and any flow-splitting arrangements?

With this application enclose drawings of the pump installation to show the pump in relation to the channel and the eel pass, any screening or protection from debris, and the facilities for cleaning and maintenance.

## 7 Eel passes, continued

**7.4 Explain why you plan to have the eel pass at the location you propose, and any factors that restrict where the pass can be**

**7.5 Describe how nearby water-control structures may in any way affect the operation of the eel pass**

**7.6 In the table below, provide a summary of the operating conditions at the river discharge limits the eel pass will operate at**

	Flight 1	Flight 2
Upstream pass invert elevation (metres above ordnance datum)		
Downstream pass invert elevation (metres above ordnance datum)		
Head difference (in metres)		
Length (in metres)		
Slope (as a percentage gradient)		

## 8 Monitoring and maintenance

All applicants must fill in this section.

**8.1 Describe any proposals you have for monitoring the hydraulic and biological performance of the fish pass**

**8.2 Describe the procedures that you will have in place to maintain the structure and mechanisms of the pass**

## 9 Supporting documents

With this application you need to provide the documents listed below. Tick the relevant boxes to confirm that you are enclosing the documents.

- A map or plan of the proposed site and relevant structures (1:10,000 or other scale if more appropriate)
- An annual river discharge hydrograph
- Detailed engineering drawings of the existing obstruction and the proposed design for the fish pass

List the reference numbers of the drawings including any revision numbers and date of revision.

If you are providing any other documents to support this application, list them here.

Are you enclosing any separate sheets you used to provide extra information to answer questions?

Yes  How many?

No

**We can only grant Fish Pass Approval if you provide all the documents we need. If this is not possible, but the rest of the form is filled in properly, we will decide whether this proposal is compatible with approved status. You can then give us the relevant documents when you have them.**

## 10 Privacy notice: how we use your personal data

We are the Environment Agency and we run the national fish pass approval advisory service. We are the data controller for this service. A data controller determines how and why personal data (personal information) is processed.

Our personal information charter ([www.gov.uk/government/organisations/environment-agency/about/personal-information-charter](http://www.gov.uk/government/organisations/environment-agency/about/personal-information-charter)) explains how we deal with your personal information. Go to GOV.UK and search 'Environment Agency personal information charter'.

### The personal data we need

The personal data we process includes:

- full name
- contact details including addresses, emails and phone numbers

We are allowed to process your personal data because we have official authority as the environmental regulator. The lawful basis for processing your personal data is to perform a task in the public interest that is set out in law.

If you do not give us this personal data we will not be able to process your fish pass application.

### What we do with your personal data

We use the personal data to process your application.

We do not use your data to make an automated decision or for automated profiling.

We share your personal data with Natural Resources Wales in order to widen the technical consultation on your application.

### How long we keep your personal data

We will keep your personal data while your application is being processed and for the expected life-span of the fish pass thereafter.

### Where your personal data is processed and stored

We store your data on servers which are hosted in the UK and Natural Resources Wales store your data in the European Union (Ireland and Holland).

### Contact details

Our Data Protection Officer (DPO) is responsible for independent advice and monitoring of the Environment Agency's use of personal information.

If you have any concerns or queries about how we process personal data, or if you would like to make a complaint or request relating to data protection, please contact our DPO:

Data Protection Officer, Environment Agency, Horizon House, Deanery Road, Bristol, BS1 5AH

Email: [dataprotection@environment-agency.gov.uk](mailto:dataprotection@environment-agency.gov.uk)

You can find out about your personal data rights from the Information Commissioner's Office (ICO) at [www.ico.org.uk](http://www.ico.org.uk). The ICO regulate the data protection legislation. You have the right to lodge a complaint with them at any time.

This notice was last updated on 11 July 2019.





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Date received (DD/MM/YYYY)

Our reference number

Account Manager

Environment Agency region and area

Region

Area