# Application for an environmental permit Part B6 – New bespoke water discharge activity or groundwater activity (point source discharge) or point source emission to water from an installation



Fill in this part of the form, together with parts A, B2 and F1, if you are applying for a new bespoke permit for a water discharge activity or a point source discharge groundwater activity.

Fill in this part of the form, together with parts A, B2, B3 and F1, if you are applying for a new bespoke permit for an installation where a point source emission to water, groundwater or sewer forms part of the operation.

Please check that this is the latest version of the form available from our website.

Please read through this form and the guidance notes that came with it. The form can be:

- 1) saved onto a computer and then filled in. Please note that the form follows a logic that means questions will open or stay closed depending on a previous answer. So you may not be able to enter text in some boxes.
- 2) printed off and filled in by hand. Please write clearly in the answer spaces.

If you want to apply for a standalone discharge of treated domestic sewage effluent of up to fifteen cubic metres (15 m³) a day to ground or up to twenty cubic metres (20 m³) a day to surface water, please fill in form B6.5.

It will take less than three hours to fill in this part of the application form.

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### 1 About the effluent – details and type

From the list below, choose which type of effluent you are applying for on this form and answer the questions shown in Table 1.

You must fill in a separate copy of this form and the appropriate appendix or appendices for each type of effluent you plan to discharge.

Table 1 – About the effluent

Type of effluent	Charge band	Please tick box	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
Sewage effluent (non-water company)	1.3.8 Sewage effluent discharge with a volume greater than 15 m³/day to groundwater (not requiring specific substances assessment)		All	a, b, c, d	b, f	-	a, b	All	-	d, f*	a, b, c, d*, e*, f*, h, i	All
	1.3.9 Sewage effluent discharge to groundwater requiring specific substances assessment (any volume)		All	a, b, c, d	b, f	-	a, b	All	b, c, d, e	d, f*	a, b, c, d*, e*, f*, h, i	All
	1.3.10 Sewage effluent discharge with a volume greater than 5 m³/day up to and including 50 m³/day to surface water (not requiring specific substances assessment)		All	a, b, c, d	b, f	-	a, b	All	-	b*, f*	a, b, c, f*, h, i	All
	1.3.11 Sewage effluent discharge with a volume greater than 50 m³/day to surface water (not requiring specific substances assessment)		All	a, b, c, d	b, f	-	a, b	All	-	b*, f*	a, b, c, d*, e*, f*, h, i	All
	1.3.11 Sewage effluent discharge to surface water requiring specific substances assessment (any volume)		All	a, b, c, d	b, f	-	a, b	All	b, c, d, e	b*, c, f*	a, b, c, d*, e*, f*, h, i	All

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Type of effluent	Charge band	Please tick box	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
Water company WwTW treated sewage effluent	1.3.8 Sewage effluent discharge with a volume greater than 15 m³/day to groundwater (not requiring specific substances assessment)		All	a, b	a, f (b is optional)	-	-	All	-	a, d, f*	a, b, c, d*, e*, f*, h, i	All
	1.3.9 Sewage effluent discharge to groundwater requiring specific substances assessment (any volume)		All	a, b	a, f (b is optional)	-	-	All	a, b, c, d, e	a, d, f*	a, b, c, d*, e*, f*, h, i	All
	1.3.10 Sewage effluent discharge with a volume greater than 5 m³/day up to and including 50 m³/day to surface water (not requiring specific substances assessment)		All	a, b	a, f (b is optional)	-	-	All	-	a, b*, f*	a, b, c, f*, h, i	All
	1.3.11 Sewage effluent discharge with a volume greater than 50 m³/day to surface water (not requiring specific substances assessment)		All	a, b	a, f (b is optional)	-	-	All	-	a, b*, f*	a, b, c, d*, e*, f*, h, i	All
	1.3.11 Sewage effluent discharge to surface water requiring specific substances assessment (any volume)		All	a, b	a, f (b is optional)	-	-	All	a, b, c, d, e	a, b*, c, f*	a, b, c, d*, e*, f*, h, i	All

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Type of effluent	Charge band	Please tick box	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
Settled storm sewage	1.3.19 Combined sewer overflow		All	a, b	-	a, b, c, d, f, g, h, i, j, k	-	All	-	a, b*, d*, f*	b, g, h, i	All
Storm sewage	1.3.19 Combined sewer overflow		All	a, b	-	a, b, c, e, f, g, h, i, j, k	-	All	-	a, b*, d*, f*	b, g, h, i	All
Emergency overflow	1.3.20 Emergency overflows		All	a, b	-	a, l, m, n, o	-	All	-	a, b*, d*, f*	b, g, h, i	All
Trade and/or non-sewage – known volume	1.3.12 Trade and/or non- sewage effluent discharge to surface water or groundwater with a volume up to and including 5 m³/ day (not requiring specific substances assessment)		All	a, b, c, d	b, c, f	-	a, b	All	b, c, d, e	b*, d*, f*	b, f*, h, i	All
	1.3.13 Trade and/or non-sewage effluent discharge to surface water or groundwater with a volume greater than 5 m³/ day (not requiring specific substances assessment)		All	a, b, c, d	b, c, f	-	a, b	All	b, c, d, e	b*, d*, f*	b, d*, e*, f*, h, i	All
	1.3.14 Trade and/or non-sewage effluent discharge to surface water or groundwater requiring specific substances assessment (any volume)		All	a, b, c, d	b, c, f	-	a, b	All	b, c, d, e	b*, d*, f*,c*	b, d*, e*, f*, h, i	All

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Type of effluent	Charge band	Please tick box	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
Trade and/or non-sewage – rainfall- dependent	1.3.12 Trade and/or non- sewage effluent discharge to surface water or groundwater with a volume up to and including 5 m³/ day (not requiring specific substances assessment)		All	a, b	b, e, f	-	-	All	b, c, d, e	b*, d*, f*	b, f*, h, i	All
	1.3.13 Trade and/or non-sewage effluent discharge to surface water or groundwater with a volume greater than 5 m³/ day (not requiring specific substances assessment)		All	a, b	b, e, f	-	-	All	b, c, d, e	b*, d*, f*	b, d*, e*, f*, h, i	All
	1.3.14 Trade and/or non-sewage effluent discharge to surface water or groundwater requiring specific substances assessment (any volume)		All	a, b	b, e, f	-	-	All	b, d, e	b*, c, d*, f*	b, d*, e*, f*, h, i	All
Mixed effluent (sewage combined with trade and/or non-sewage) – known volume	1.3.8 Sewage effluent discharge with a volume greater than 15 m³/day to groundwater (not requiring specific substances assessment		All	a, b, c, d	b, c, f	-	a, b	All	b, c, d, e	d, f	a, b, c, d*, e*, f*, h, i	All
	1.3.9 Sewage effluent discharge to groundwater requiring specific substances assessment (any volume)		All	a, b, c, d	b, c, f	-	a, b	All	b, c, d, e	d,f*	a, b, c, d*, e*, f*, h, i	All

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Type of effluent	Charge band	Please tick box	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
Mixed effluent (sewage combined with trade and/or non- sewage) –	1.3.10 Sewage effluent discharge with a volume greater than 5 m³/day up to and including 50 m³/day to surface water (not requiring specific substances assessment)		All	a, b, c, d	b, c, f	-	a, b	All	b, c, d, e	b*, f*	a, b, c, f*, h, i	All
known volume	1.3.11 Sewage effluent discharge with a volume greater than 50 m³/day to surface water (not requiring specific substances assessment)		All	a, b, c, d	b, c, f	-	a, b	All	b, c, d, e	b*, f*	a, b, c, d*, e*, f*, h, i	All
	1.3.11 Sewage effluent discharge to surface water requiring specific substances assessment (any volume)		All	a, b, c, d	b, c, f	-	a, b	All	b, c, d, e	b, c, d	a, b, c, d*, e*, f*, h, i	All
Mixed effluent (sewage combined with trade and/or non-	1.3.8 Sewage effluent discharge with a volume greater than 15 m³/day to groundwater (not requiring specific substances assessment)		All	a, b	b, c, d, e, f	-	a, b	All	b, c, d, e	d, f*	a, b, c, d*, e*, f*, h, i	All
sewage) containing rainfall- dependent effluent	1.3.9 Sewage effluent discharge to groundwater requiring specific substances assessment (any volume)		All	a, b	b, c, d, e, f	-	a, b	All	b, c, d, e	d, f*	a, b, c, d*, e*, f*, h, i	All

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Type of effluent	Charge band	Please tick box	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
	1.3.10 Sewage effluent discharge with a volume greater than 5 m³/day up to and including 50 m³/day to surface water (not requiring specific substances assessment)		All	a, b	b, c, d, e, f	- a, b		All	b, c, d, e	b*, f*	a, b, c, f*, h, i	All
Mixed effluent (sewage combined with trade and/or	1.3.11 Sewage effluent discharge with a volume greater than 50 m³/day to surface water (not requiring specific substances assessment)		All	a, b	b, c, d, e, f	-	a, b	All	b, c, d, e	b*, f*	a, b, c, d*, e*, f*, h, i	All
non-sewage) containing rainfall- dependent effluent	1.3.11 Sewage effluent discharge to surface water requiring specific substances assessment (any volume)		All	a, b	b, c, d, e, f	-	a, b	All	b, c, d, e	b*, c, f*	a, b, c, d*, e*, f*, h, i	All
Trade – returned abstracted water	1.3.15 Cooling water or thermal discharge to surface water or groundwater (not requiring specific substances assessment)		All	a, b, c, d	b, c, f	-	-	All	b, c, d, e, f, g	b*, d*, f*	a*, b, d*, e*, f*, h, i	All
(including ground source heating and cooling)	1.3.16 Cooling water or thermal discharge to surface water or groundwater requiring specific substances assessment		All	a, b, c, d	b, c, f	-	-	All	b, c, d, e, f, g	b*, c, d*, f*	a*, b, d*, e*, f*, h, i	All

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Type of effluent	Charge band	Please tick box	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
	1.3.17 Aquaculture (not requiring specific substances assessment)		All	a, b, c, d	b, c, f	-	-	All	b, c, d, e	b*, d*, f*	a*, b, d*, e*, f*, h, i	All
Trade – returned abstracted water (including ground source heating and cooling)	1.3.18 Aquaculture requiring specific substances assessment		All	a, b, c, d	b, c, f	-	-	All	b, c, d, e	b*, c, d*, f*	a*, b, d*, e*, f*, h, i	All
Effluent and/or contaminated surface water run-off arising from the operation of an installation	No additional charge, as already included as part of the installation permit application charge		a, b, d	С	b, c, d, f		a, b2	a, b, c	b, c, d, e, f, g	b, d, e, f	a, b, d, e, f, h, i	a, b,

<sup>\*</sup> Check the relevant question and our guidance notes on part B6 to see if you need to give an answer.

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# 1 About the effluent – details and type, continued

1a	Give a brief description of the effluent discharge you want a permit for, for example, treated domestic sewage effluent
 1b	Give this effluent a unique name
You	must use this name to identify this effluent throughout this application and all associated documents.
1c	Is this a release from a dam, weir or sluice ('reservoir release') under Schedule 21 of the EPR meaning of water discharge activity?
Yes	
No	
1d	Have you obtained all the necessary permissions in addition to this environmental permit to be able to carry out the discharge (see B6 guidance notes for more details)?
Yes	
No	
NI / Δ	

# 2 About the effluent – how long will you need to discharge the effluent for?

2a	What date do you want the permit for this effluent	t to start?		(DD/MM/YYYY)
star pari	use note that this is the date that your annual subs ted to discharge, unless you contact us to change (B6). The start date cannot be before the permit is ady passed.	(delay) the	start date	e (see the guidance notes on
2b	Is the discharge time limited?			
Yes	Please give the date you expect the discharge to end but please note that your permit will not er on that date and you will still need to notify us to surrender the permit	nd		_l (DD/MM/YYYY)
No				
2c	Will the discharge take place all year?			
Yes				
No	Please give details of the months when you will make the discharge			
2d	Will the discharge take place on more than six day	ys in any y	ear?	
Yes				
No				

3	How much do you want to dischar	ge?	
3a	What is the daily dry weather flow?		cubic metres
3b	What is the maximum volume of effluent you will discharge in a day?		cubic metres
	ow how you calculated the figure given in the box being a reference for the extra sheet	elow an	d continue on a separate sheet if necessary,
Dod	cument reference		
3c	What is the maximum rate of discharge?		litres a second
3d	What is the maximum volume of non-rainfall dependent effluent you will discharge in a day?		cubic metres
3e	What is the maximum rate of rainfall dependent discharge?		litres a second
3f	For each answer in question 3, show how you work	ked out	the figure on a separate sheet
Dod	cument reference		
4	Intermittent sewage discharges		
4a	For each answer to 4b to 4o below, show how you	worked	out the figure on a separate sheet
Doc	cument reference		
4b	What is the total volume of the off-line/storm tank storage?		cubic metres
4c	What is the total volume of on-line storage?		cubic metres
4d	What is the pass forward flow at the settled storm overflow setting?		litres a second
4e	What is the pass forward flow at the storm overflow setting?		litres a second
4f	Is the discharge screened?		
Yes	Answer the relevant questions from 4g to 4j		
No	Now go to 4k		

Form EPB: Application for an environmental permit - Part B6 water discharge activity or groundwater (point source) activity, or point source emission to water or sewer from an installation 4g What is the mesh screen spacing? ∣millimetres 4h What is the minimum screen capacity flow through the mesh screen? |litres a second What is the bar screen spacing? ∣millimetres What is the minimum screen capacity flow through the bar screen? ∣litres a second 4k Is the overflow constructed to good engineering design? Yes On a separate sheet explain what standards the overflow has been constructed to No Document reference What is the emergency storage capacity of the sewer and wet well? \_\_\_\_\_cubic metres 4m What is the storage time within the sewer and the wet well above the top water level at dry weather flow? |hours and minutes 4n What is the pass forward flow at the pumping station? litres a second

40 For intermittent emergency overflows you must provide a document setting out the key protection

measures you will provide

key protection measures

Document reference for pumping station

### 5 Should your discharge be made to the foul sewer?

Foul sewer means public or private foul sewer.

Before answering these questions, you must read the guidance notes to part B6.

You will also need to contact your sewerage undertaker (usually your local water company) and you may need to check if it is possible to connect to a private foul sewer.

5a How far away is the nearest foul sewer from the boundary of the premises?

5b To assess whether it is reasonable to discharge your effluent into the foul sewer, please answer 5b1 or 5b2

5b1 Discharges from domestic properties

Multiply the number of properties served by the sewage treatment system by 30 metres.

Number of domestic properties served by the sewage treatment system metres

× 30 metres =

metres

5b2 Discharges from all other premises including trade effluent

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

Volume of the discharge (answer to question 3b)

cubic metres / 0.75 =

× 30 =

metres

Is your answer to question 5b1 or 5b2 above greater than the distance to the nearest foul sewer (answer to 5a)?

No You do not need to explain why you cannot discharge your effluent into the foul sewer at this point. However, we may request this information from you when we determine your application. Now go to question 6.

You must explain on a separate sheet why you cannot discharge your effluent into the foul sewer, giving a reference for the extra sheet. Before you submit the application, you must explore the possibility of connecting to the foul sewer, and send us evidence that you have approached the sewerage undertaker, including their formal response regarding connection, if relevant. You must also show the extra cost of connecting to a sewer compared with the treatment system you propose, and details of any physical obstacles such as roads, railways, rivers or canals.

We will only agree to the use of private treatment systems within sewered areas if you can demonstrate that:

- the additional cost of connecting to the foul sewer would be unreasonable
- connection is not practically feasible, or
- the proposed private treatment system can be shown to significantly benefit the environment

We are unlikely to grant a permit for a discharge of treated domestic sewage in circumstances where a private sewerage system is being proposed due to a lack of capacity in the nearest public sewerage network.

The guidance notes to part B6 will help you understand what information you need to provide in order to answer this question.

Document reference for where you have given this justification

# 6 How will the effluent be treated? 62 Do you treat your effluent?

6a	a Do you treat your effluent?	
Yes	s Now go to question 6b	
No	You must explain why the effluent will not	be treated
	ocument reference for where you have given is justification	L.
6b	b Fill in Table 2 for each stage of the tre in which they are carried out	eatments carried out on your effluent in the order
	•	o water or sewer, there is no need to duplicate . Where this information is already provided, give the

# Table 2 - Treatments carried out on your effluent

Document reference

Order of treatment	Code number	Description
First		
Second		
Third		
Fourth		

Continue on a separate sheet if you need more rows. If you prefer, you can also send us an overall design for the whole treatment process.

Document reference	

6c You must provide details on a separate sheet of the final effluent discharge quality that the overall treatment system is designed to achieve

Document reference		

# What will be in the effluent?

For all applications, whether to surface water, or onto or into ground, you should still check to see if your discharge is likely to contain any of the specific substances listed in the guidance documents on 'Risk assessment for treated sewage or trade effluent discharges to surface water or groundwater' (see https:// www.gov.uk/guidance/risk-assessments-for-your-environmental-permit)

Ansv	ver the relevant questions for your discharge belo	W.	
7a	Are any of the specific substances listed in 'Risk assessment for treated sewage or trade effluent discharges to surface water or groundwater' likely to enter the sewerage system upstream of the discharge through any authorised or known inputs?		
Yes			
No			
7b		in 'Risk assessment for treated sewage or er or groundwater' added to or present in the e site?	
Yes			
No			
7c		d in 'Risk assessment for treated sewage or er or groundwater' been detected in samples nent upstream of the discharge?	
Yes			
No			
7d	•	ubstances in your effluent not mentioned in rade effluent discharges to surface water or	
Yes			
No			
7e	• •	tions 7a to 7d provide details on a separate the effluent is not likely to contain specific	
Docu	ument reference		
7f	What is the maximum temperature of your discharge?	degrees Celsius	
7g	What is the maximum expected temperature change compared to the incoming water supply?	increase in degrees Celsius	

\_\_\_\_\_decrease in degrees Celsius

### 8 Environmental risk assessments and modelling

You may need to carry out an environmental risk assessment or modelling to support your application. Please answer all the questions that are relevant to your discharge. If an environmental risk assessment or modelling is required, you must send it to us with your application.

# 8a Sewer modelling report (for discharges of final effluent from a water company WwTW or intermittent sewage discharges)

You must carry out sewer modelling following the guidance 'Surface water pollution risk assessment for your environmental permit' (see <a href="https://www.gov.uk/guidance/risk-assessments-for-your-environmental-permit">https://www.gov.uk/guidance/risk-assessments-for-your-environmental-permit</a>). Send us details of how the modelling was carried out and the outcome.

Document reference for the sewer modelling report	
Document reference for the sewer modelling report	

#### 8b Discharges to lakes, estuaries, coastal waters or bathing waters

You must carry out modelling following the guidance 'Surface water pollution risk assessment for your environmental permit' (see <a href="https://www.gov.uk/guidance/risk-assessments-for-your-environmental-permit">https://www.gov.uk/guidance/risk-assessments-for-your-environmental-permit</a>). Send us details of how the modelling was carried out and the outcome.

Document reference for the modelling report

#### 8c Discharges to freshwater (non-tidal) rivers

If the discharge contains, or potentially contains, any specific substances, you must carry out screening following the guidance (see <a href="https://www.gov.uk/guidance/surface-water-pollution-risk-assessment-for-your-environmental-permit">https://www.gov.uk/guidance/surface-water-pollution-risk-assessment-for-your-environmental-permit</a>). The guidance notes on part B6 outline the information you must provide.

Have you answered yes to any of 7a to 7d?

Yes	Send us the completed screening tool, along with the raw data used to create the summary
	statistics

Document reference for the screening tool and	
raw data	t.

No

#### 8d Discharges to groundwater

You must carry out a groundwater quantitative risk assessment following the guidance in 'Groundwater risk assessment for your environmental permit' (see <a href="https://www.gov.uk/guidance/groundwater-risk-assessment-for-your-environmental-permit">https://www.gov.uk/guidance/groundwater-risk-assessment-for-your-environmental-permit</a>).

Send us details of how the modelling was carried out and the outcome.

For groundwater remediation schemes you must send us a site-specific remediation strategy that has been agreed with the local Environment Agency Groundwater and Contaminated Land Team.

Document reference for the groundwater	
remediation report	

#### 8e Discharges to freshwater (non-tidal) rivers from an installation, including discharges via sewer

If the discharge contains, or potentially contains, any specific substances, you must carry out screening following the guidance (see <a href="https://www.gov.uk/guidance/surface-water-pollution-risk-assessment-for-your-environmental-permit">https://www.gov.uk/guidance/surface-water-pollution-risk-assessment-for-your-environmental-permit</a>). The guidance notes on part B6 outline the information you must provide.

Have you answered yes to any of 7a to 7d?

Yes Send us the completed screening tool, along with the raw data used to create the summary statistics. Where the discharge is via sewer, include sewage treatment reduction factors in the calculations.

Document reference for the screening tool			
and raw data	I		

There is no need to duplicate information already provided in part B3 form. Where this information is already provided, give the document reference above.

No

#### 8f Environmental impact assessment

Have you carried out an environmental impact assessment?

Yes Send us details of how the assessment was carried out and the outcome

Document reference for the environmental

impact assessment

No

^	AA •. •	
u	Monitoring	arrangomonte
7	Monitoring	arrangements

Note: If your effluent has a maximum volume of no more than 50 cubic metres a day you do not need to complete question 9d or 9e.

9a	What is the national grid reference of the inlet sampling point? (for example, SJ 12345 67890)	
9b	What is the national grid reference of th sample point?	e effluent
<b>9</b> c	Do you have an Urban Waste Water Trea	tment Directive final effluent sampling point?
Yes	Please provide the national grid reference	
No		
9d	What is the national grid reference of th monitoring point?	e flow
9e	Does the flow monitor have an MCERTS certificate?	
Yes	Please give the certificate number	
No		
9f	Do you have a UV disinfection efficacy m	nonitoring point?
Yes	Please provide the national grid reference	
No		
9g	Do you have an event duration monitori	ng point(s)?
Yes	Please provide the national grid reference	L
No		
9h	You should clearly mark on the plan the this effluent	locations of any of the above that apply to
Doci	ument reference for the plan	
9i	Do you intend to do your own effluent m	onitoring?
Yes		
No		

### 10 Where will the effluent discharge to?

# 10a Mark in Table 3 where this effluent discharges to and fill in the relevant appendix or appendices.

You must use the name you gave to this effluent in answer to question 1b of this form when filling in your relevant appendix or appendices.

#### Table 3 - Where the effluent discharges to

Receiving environment	Relevant appendix
Borehole or well	1
Into land (for example, through a drainage system)	2
Onto land	3
Tidal river, tidal stream, estuary or coastal waters	4
Non-tidal river, stream or canal via WwTW	5
Lake or pond	6

### 10b Is this effluent discharged through more than one outlet?

Yes	Give details, on a separate sheet, of the circum this effluent	nstances under which each outlet would be used by
Docum	ent reference	

No

10c If you answered yes to question 10b above make sure you show clearly on your discharge point appendix or appendices and site plan that this one effluent can discharge to more than one discharge point.

You must give us all the details we need for each of the discharge points used by this effluent.

#### 11 How to contact us

If you need help filling in this form, please contact the person who sent it to you or contact us as shown below.

General enquiries: 03708 506 506 (Monday to Friday, 8am to 6pm)

Textphone: 03702 422549 (Monday to Friday, 8am to 6pm)

Email: enquiries@environment-agency.gov.uk

Website: <a href="https://www.gov.uk/government/organisations/environment-agency">www.gov.uk/government/organisations/environment-agency</a>

If you are happy with our service, please tell us. It helps us to identify good practice and encourages our staff. If you're not happy with our service, please tell us how we can improve it.

Please tell us if you need information in a different language or format (for example, in large print) so we can keep in touch with you more easily.

#### Feedback

Yes please

No thank you

(You don't have to answer this part of the form, but it will help us improve our forms if you do.)

We want to make our forms easy to fill in and our guidabelow to give us any comments you may have about the	•	•
How long did it take you to fill in this form?		
We will use your feedback to improve our forms and guregulations could be made simpler.	iidance notes, and to tell	the Government how
Would you like a reply to your feedback?		

For Environment Agency use only			
For Environment Agency use only			
Date received (DD/MM/YYYY)	Payment re	eceived?	
	No		
Our reference number	Yes	Amount received	
I I		£ı	

Crystal Mark

19107

Plain English Campaigr

#### Plain English Campaign's Crystal Mark does not apply to appendices 1 to 6.

### Appendix 1 – Discharges to a borehole or well (or other deep structure)

If you are discharging the effluent to a borehole or well or other deep structure (such as concrete rings, natural swallow hole or deep soakage pit) you must ensure that the discharge is indirect to groundwater. Direct discharges to groundwater cannot be permitted. We will undertake a groundwater quantitative risk assessment on your behalf in line with the guidance 'Groundwater risk assessment for your environmental permit' (see <a href="https://www.gov.uk/guidance/groundwater-risk-assessment-for-your-environmental-permit">https://www.gov.uk/guidance/groundwater-risk-assessment-for-your-environmental-permit</a>)

For us to do this you must answer the following questions relevant to your application and provide us with additional information as summarised in Table 4.

Without this information we will be unable to complete the risk assessment and it is likely your application will be rejected.

Answer all the questions below. Use a separate line for each effluent if more than one effluent discharges using this discharge point. Remember, when linking your effluent to a discharge point you must use the name you gave to your effluent in answer to question 1b in the effluent form

Hall	ie you gave to your entuent in answer to question in	o in the entacin form.
1.1	Give the discharge point a unique name	
	example, 'Outlet 1' (you must use this name to iden discharge point on the plan)	tify
1.2	Give the national grid reference of the discharge point	
1.3	Is the discharge to ground via a	
	Well	
	Borehole	
	Other deep structure	Please give details (e.g. concrete ring structure, shaft, natural swallow hole, soakage pit etc.)
1.4	What is the diameter of the borehole, well or other structure that the effluent will be discharged into?	•
1.5	Is the borehole, well or other structure already cons	structed?
Yes	Now answer questions 1.6 to 1.9	
No	Now answer questions 1.10 to 1.12	

# Appendix 1 – Discharges to a borehole or well (or other deep structure) continued

Existing borehole, well or other deep structu
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1.6	What is the total depth to the bottom of the existing well, borehole or other structure?		」metres below ground level
If yo	ou are unaware of the actual depth please estimate	the depth based on	the following categories:
	0–5 metres		
	5–10 metres		
	Greater than 10 metres		
	Uncertain		
	at evidence is the estimated depth above ed on?	L	
1.7	Does the well, borehole or other structure extend i	nto groundwater?	
	Yes – always contains water		
	Sometimes – water is present occasionally		
	No – never contains water		
lf gr	oundwater is always, or sometimes, present, what	is the highest level t	that the standing water reaches?
	Measured		metres below ground level
	Estimated		」metres below ground level
1.8	Please provide any records, diagrams or borehole	logs you may have t	hat could help us understand:
•	the method of construction (including any solid ca	sings or linings use	d)
•	the likely depth of the deep structure		
•	the local groundwater conditions		
	ase provide photocopies where possible. If it is not ky) please summarise any additional information yo		_ ·
	ument reference for the records, diagrams or ehole logs	L	
1.9 exa	If any maintenance has been carried out on your mple, to aid effective drainage), please give details		ther deep structure (for

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Please now answer question 1.13

# Appendix 1 – Discharges to a borehole or well (or other deep structure), continued

### Proposed borehole, well or other deep structure that has not yet been constructed

forms an im you conside 1.10a and 1 supporting y	portant part of our red, and why did yo .10b to provide the	permit determination poudecide these were ne e results of soakage test example, permission re	rocess. Which method: ot feasible to take forw ts and summarise in th	age system. This information s of shallow disposal have ard? Please answer questions e box any relevant information s or physical constraints, or
1.10a What	t was your percolati	on value (Vp) result?	S	seconds per millimetre
	•	you worked out the per	colation value.	
Table 4 – I	Percolation valu			
II.d. 4	Trial 1	Trial 2	Trial 3	Average
Hole 1				
Hole 2				
Hole 3				
Hole 4				
	hallow engineered infiltration system?	<u> </u>		e the required surface area of square metres
	information to expl d to your application		to install a shallow en	gineered drainage system can
Document re	eference for these o	letails	L	
1.11 Please to inst		deep structure (for exai	mple, borehole, well, d	eep soakage pit) you propose

What will the total depth be?

\_\_\_\_ metres below ground level

# Appendix 1 – Discharges to a borehole or well (or other deep structure) continued

1.12	Please tell us the reason this depth has been selected and, if you are aware of any relevant existing information on local water levels, please also tell us the depth to groundwater (in metres below ground level). What measures will you undertake to ensure the discharge is not direct into groundwater? If the discharge will be direct to groundwater explain why you cannot make it indirect. Direct discharges to groundwater cannot be permitted.
Prox	imity of your discharge to other receptors
1.13	Is the borehole, well or other deep structure where the discharge is being/will be made within 50 metres of any other well, spring or borehole used to supply water for drinking water or food production purposes?
Yes	Please show the location of the well, spring or borehole you identified in answer to question 1.13 on the plan you have provided for section 4 of the main application form. Please now answer question 1.14
No	Please now answer question 1.15
1.14	Please tell us about the water supply (or supplies) used for drinking water or food production purposes identified in question 1.13 above; for example, the name of the property or properties served by the water supply, what they use the water for (drinking water, food production) and where they are in relation to your discharge

# Appendix 1 – Discharges to a borehole or well (or other deep structure) continued

.15 What is the distance to the hearest watercourse	
or example, surface water, river, stream or ditch)? metres	
lease tell us whether you have considered discharging to surface water and why this is not feasible	

In Table 5 please provide any further information required for us to complete a groundwater quantitative risk assessment on your behalf in line with the guidance 'Groundwater risk assessment for your environmental permit' at

https://www.gov.uk/guidance/groundwater-risk-assessment-for-your-environmental-permit. Without this information we will be unable to carry out a hydrogeological risk assessment on your behalf.

Table 5 summarises the information required to allow us to undertake a hydrogeological risk assessment of your discharge to a deep infiltration system. Without this information your application will be rejected. You will already have provided some of this information earlier in this application form. **We also need you to provide additional information indicated by a tick (//) in Table 5**. For further guidance on the additional information required see <a href="https://www.gov.uk/guidance/groundwater-risk-assessment-for-your-environmental-permit">https://www.gov.uk/guidance/groundwater-risk-assessment-for-your-environmental-permit</a> and the guidance notes on part B6. You may require the advice of an environmental consultant to collate this information.

For some of the risk assessment inputs we are better placed to provide the information and will do so for those parameters indicated by an asterisk (\*) as far as possible. However, if you wish to provide site-specific information for those parameters with an asterisk you are welcome to do so.

# Table 5 – Further information required for the Environment Agency to complete a groundwater quantitative risk assessment on your behalf

Information	Description	Existing structure	Proposed structure	Information supplied?
Information supplied by th	ne applicant			
This has already been requ	uested earlier in the application fo	rm		
National grid reference of the discharge point		Appendix 1 Q2	Appendix 1 Q2	
Volume of effluent (m³ per day)		Q3b	Q3b	Information you have already
Type of effluent treatment	Septic tank, package treatment plant, other	Q6	Q6	supplied on the application
Type of deep infiltration system	Borehole, well, concrete ring structure, other	Appendix 1 Q3	Appendix 1 Q3	form
Diameter of deep infiltration system (metres)		Appendix 1 Q4	Appendix 1 Q4	
Depth to the base of deep infiltration structure (metres)		Appendix 1 Q6	Appendix 1 Q11	
Depth to water table (metres)	Is discharge above or below water table?	Appendix 1 Q7, Q8	Appendix 1 Q12	
Justification for a deep infiltration system	Why are you unable to install a shallow infiltration system? What other options for disposal have been considered?	Appendix 1 Q8 if available	Appendix 1 Q10	
	Provide full details of the infiltration tests undertaken plus results	available		

Information supplied by the applicant

This is additional information we need from you that is not provided elsewhere on the application form. Site data should be given where it is already available. If not, you can submit the relevant literature values quoting the source of the data and justification of the values you have selected. Please tick the right-hand column to confirm you have provided this essential information.

# Appendix 1 – Discharges to a borehole or well (or other deep structure) continued

Information	Description	Existing structure	Proposed structure	Information supplied?
Concentration of relevant substances entering the infiltration system	For discharges of domestic effluent we will routinely assess the concentration of nitrogen species, particularly the ammonium concentration	<b>✓</b>	<b>✓</b>	
Length of screened borehole section below the water table (metres)	Depth in metres of the borehole screened section that is below the water table (This applies only to boreholes that have groundwater in the base)	<b>✓</b>	<b>✓</b>	
Calculated area of infiltration system (square metres)	Explain how the area of the infiltration system has been calculated – this is especially relevant if a non-circular system is used	<b>✓</b>	<b>✓</b>	
Unsaturated zone parameters	The following represent the strata above the water table:  • hydraulic conductivity (metres per day)  • water-filled porosity (per cent)  • bulk density (grammes per cubic centimetre)	<b>✓</b>	<b>✓</b>	
Saturated zone parameters	The following represent the strata below the water table: hydraulic conductivity (metres per day) water-filled porosity (per cent) bulk density (grammes per cubic centimetre) hydraulic gradient of the water table (fraction)	✓	<b>✓</b>	

Information provided by the Environment Agency where possible

You are free to provide this information if you wish, or in some specific cases we may need to ask for this at a later stage. Please tick if you have provided this information (optional).

# Appendix 1 – Discharges to a borehole or well (or other deep structure) continued

Information	Description	Existing structure	Proposed structure	Information supplied?
Environmental standard	The relevant environmental standard or compliance value against which we will assess your effluent discharge	*	*	
Half-life for degradation of the substance (days)	If you wish to know more about these parameters see	*	*	
Soil water partition coefficient (litres per kilogramme)	'Groundwater risk assessment for your environmental permit' at https://www.gov.uk/guidance/ groundwater-risk-assessment-for- your-environmental-permit	*	*	
Mixing zone thickness (metres)		*	*	
Distance to compliance point (metres)		*	*	

### Appendix 2 - Discharges into land

Answer the questions below. Use a separate line for each effluent if more than one effluent discharges using this discharge point. Remember, when linking your effluent to a discharge point you must use the name you gave to your effluent in answer to question 1b in the effluent form.

2.1 Give the discharge point a unique name	
For example, 'Outlet 1' (you must use this name to identify the discharge point on the plan)	
2.2 Give the national grid reference of the discharge point	
2.3 Is your infiltration system new or existing?	
New Now go to question 2.5	
Existing Now go to question 2.4	
2.4a When was it built?	L (DD/MM/YYYY)
2.4b Now answer questions 2.5–2.8 if you are able to	o, if not leave them blank and go to question 2.9
2.5 Is your infiltration system designed and built to E Standards in force at the time of installation?	British Standard 6297:2007 + A1:2008 or the British
Yes	
No Please provide details, on a separate sheet,	, of the design criteria used for your infiltration systen
Document reference	
2.6 On what date did you carry out a percolation test	and dig a trial hole in line with

You must show in Table 6 how you worked out the percolation value. Please also provide your test sheets and any field notes or observations made regarding ground conditions.

#### Table 6 - Percolation value

British Standard 6297:2007 + A1:2008?

2.7 What is your percolation value (Vp) result?

	Trial 1	Trial 2	Trial 3	Average
Hole 1				
Hole 2				
Hole 3				
Hole 4				

2.8 Please show us how you have calculated the area (A) of your infiltration system

p	× Vp =	× 0.25 for septic tanks = A	square metres
<u>or</u>		 1	 1
р	× Vp =	× 0.20 for package treatment plants = A	square metres

p Population based on maximum occupancy

Vp Percolation value in seconds/mm

(DD/MM/YYYY)

| seconds per millimetre

### Appendix 2 - Discharges into land, continued

- 2.9 If known, mark on the plan you have provided the extent of the infiltration system. Please write on the plan the length and width of the sides in metres.
- 2.10 Is any part of your infiltration system within 50 metres of a well, spring or borehole?

No

Yes Identify the location of the well, spring or borehole on the plan you have provided and answer question 2.11

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

No

Yes	You must describe what the water supplied is used for			

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

No

Yes Identify the location of the watercourse on the plan you have provided for section 4 of part B2

# Appendix 3 - Discharges onto land

Answer all the questions below. Use a separate line for each effluent if more than one effluent discharges using this discharge point. Remember, when linking your effluent to a discharge point you must use the name you gave to your effluent in answer to question 1b in the effluent form.

3.1	Give the discharge point a unique name For example, 'Outlet 1' (you must use this name to identify the discharge point on the plan)		
3.2	Give the national grid reference of the discharge point		
3.3	Select from the table below the type of area where the effluent is disposed of		
Are	a type		
Un	ned reed bed		
	ned grass plot		
	ned wetland		
Otl	er Please specify below		
3.4	What is the surface area of the land used for your disposal?		
3.5 No	Is any part of your infiltration system within 50 metres of a well, spring or borehole?		
Yes	Identify the location of the well, spring or borehole on the plan you have provided and answer question 3.6		
3.6 No	Is the well, spring or borehole you have identified used to supply water?		
Yes	You must describe what the water supplied is used for		
3.7 No	Is any part of your infiltration system within 10 metres of a watercourse?		
Yes	Identify the location of the watercourse on the plan you have provided for section 4 of part B2		

# Appendix 4 - Discharges to tidal river, tidal stream, estuary or coastal waters

Answer all the questions below. Use a separate line for each effluent if more than one effluent discharges using this discharge point. Remember, when linking your effluent to a discharge point you must use the name you gave to your effluent in answer to question 1b in the effluent form.

4.1	Give the discharge point a unique name For example, 'Outlet 1' (you must use this name to identify the discharge point on the plan)	
4.2	Give the national grid reference of the discharge point	
4.3	Give the name of the tidal river, tidal stream, estuary or area of coastal water if you know it	L
4.4	Is the discharge into a	
	Tidal river	
	Tidal stream	
	An estuary	
	Coastal water	
4.5	Does the discharge reach the watercourse by flow	ing through a surface water sewer?
Yes	Give the national grid reference where the discharge enters the surface water sewer	L
No		
4.6	Is the discharge point above the mean low water s	spring tide mark?
Yes	Please explain, on a separate sheet, why the di	scharge cannot be made below this point
Doc	ument reference	
No		
4.7	How is the effluent dispersed?	
For	example, open pipe or diffuser system	
If di	ffuser system go to question 4.8	
4.8	Give details, on a separate sheet, of the design of	the diffuser system
Doc	ument reference	
4.9	Is the discharge made to a roadside drain or ditch	?
No		
Yes	for the roadside drain or ditch. If it is, you need relevant highways authority before submitting	her the relevant highways authority is responsible to secure the appropriate permissions from the an application for an environmental permit to the mission from the relevant highways authority must oplication.
	ument reference for the written permission n the relevant highways authority	

# Appendix 5 - Discharges to non-tidal river, stream or canal

Answer all the questions below. Use a separate line for each effluent if more than one effluent discharges using this discharge point. Remember, when linking your effluent to a discharge point you must use the name you gave to your effluent in answer to question 1b in the effluent form.

5.1	Give the discharge point For example, 'Outlet 1' (y identify the discharge po	you must use this name to	
5.2	Give the national grid red	ference of the	
5.3	Give the name of the wa	tercourse, canal or the tributary of if you know it	L
5.4	Is the discharge into a		
	Non-tidal river		
	Stream		
	Canal		
5.5 Yes	Does the discharge reach Give the national grid discharge enters the s	reference where the	by flowing through a surface water sewer?
No			
5.6	Does the watercourse dr	y up for part of the year?	
No			
Yes	How many months pe	er year is the watercourse d	ry?
	Do you agree to install p	oerforated pipe work befor	e the discharge point?
	metres of the bank of ar		e. Any section of that pipe which lies within 10 rforated, but this perforated section shall not watercourse.
	Yes		
	No		
5.61		s dry up for part of the year ar – start and finish (in mo	can you indicate a typical period when the surface nths)
Wat	ercourse typically becom	es dry in:	
Janu Febr Mar Apri	ruary ch	May June July August	September October November December
-	ercourse typically flows a	_	
Janu		May	September
	•	June	October
Mar	•	July	November
Apri	1	August	December

# Appendix 5 – Discharges to non-tidal river, stream or canal, continued

5.6.2	If the watercourse does dry up for part of the year, many metres downstream of the discharge is it be		
	discharged effluent soaks in?		
5.7 ls	the discharge made to a roadside drain or ditch?		
No			
Yes	If yes, it is your responsibility to ascertain wheth for the roadside drain or ditch. If it is, you need t relevant highways authority before submitting a Environment Agency. A copy of the written permit be submitted with the environmental permit app	o secure the appropriat n application for an env ission from the relevant	e permissions from the ironmental permit to the
	nent reference for the written permission he relevant highways authority		

### Appendix 6 - Discharges to a lake or pond

Answer all the questions below. Use a separate line for each effluent if more than one effluent discharges using this discharge point. Remember, when linking your effluent to a discharge point you must use the name you gave to your effluent in answer to question 1b in the effluent form.

6.1	For example, 'Outlet 1' (you must use this name to	0
	identify the discharge point on the plan)	
6.2	Give the national grid reference of the discharge point	L
6.3	Give the name of the lake or pond if you know it	L

6.4 Select from the following table the type of lake or pond you will be discharging to and answer the relevant questions

Type of lake or pond	Relevant questions
Lake or pond which is not connected to a river or watercourse	Permit not required*
Lake or pond which is not connected to a river or watercourse, where you have had a notice served under paragraph 5 of Schedule 21 of the Environmental Permitting (England and Wales) Regulations 2016	6.5, 6.6, 6.7
Lake or pond that discharges into a river or watercourse	6.5, 6.6, 6.7

<sup>\*</sup> Unless a Notice has been served under paragraph 5 of Schedule 21 of the Environmental Permitting (England and Wales) Regulations 2016

6.5	What is the surface area of the lake or pond?	」square metres
6.6	What is the maximum depth of the lake or pond?	」metres
6.7	What is the average depth of the lake or pond?	」metres