# Application for an environmental permit Part C6 – Variation to a bespoke water discharge activity and groundwater (point source) activity



Fill in this part of the form, together with part C2 and part F1, if you are applying to vary (change) the conditions or any other part of the permit. Please check that this is the latest version of the form available from our website.

You only need to give us details in this application for the parts of the permit that will be affected (for example, if you are adding a new facility or making changes to existing ones).

You do not need to resend any information from your original permit application if it is not affected by your proposed changes.

Please read through this form and the guidance notes that came with it.

#### The form can be:

- 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.

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

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## 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)	1.3.3 Sewage effluent discharge with a volume up to and including 5 m³/day to surface water from domestic household or organisation operating for charitable purposes		All	a, b, c, d	b, f	-	a, b	All	-	b*, e*	a, b, c, f*, g, h	All
	1.3.4 Sewage effluent discharge with a volume up to and including 5 m³/day to groundwater from domestic household or organisation operating for charitable purposes		All	a, b, c, d	b, f	-	a, b	All	-	d, e*	a, b, c, f*, g, h	All
	1.3.5 Sewage effluent discharge with a volume up to and including 5 m³/day to surface water (not requiring specific substances assessment)		All	a, b, c, d	b, f	-	a, b	All	-	b*, e*	a, b, c, f*, g, h	All
	1.3.6 Sewage effluent discharge with a volume up to and including 5 m³/day to groundwater (not requiring specific substances assessment)		All	a, b, c, d	b, f	-	a, b	All	-	d, e*	a, b, c, f*, g, h	All
	1.3.7 Sewage effluent discharge with a volume greater than 5 m³/day up to and including 15 m³/day to groundwater (not requiring specific substances assessment)		All	a, b, c, d	b, f	-	a, b	All	-	d, e*	a, b, c, f*, g, h	All
	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, e*	a, b, c, d*, e*, f*, g, h	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	d, e*	a, b, c, d*, e*, f*, g, h	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*, e*	a, b, c, f*, g, h	All

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Type of effluent	Charge band	Please tick box	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
Sewage effluent (non-water company)	1.3.11 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*, e*	a, b, c, d*, e*, f*, g, h	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	b*, c, e*	a, b, c, d*, e*, f*, g, h	All
Water company WwTW treated sewage effluent	1.3.5 Sewage effluent discharge with a volume up to and including 5 m³/day to surface water (not requiring specific substances assessment)		All	a, b	a, f (b is optional)	-	-	All	-	a, b*, e*	a, b, c, f*, g, h	All
	1.3.6 Sewage effluent discharge with a volume up to and including 5 m³/day to groundwater (not requiring specific substances assessment)		All	a, b	a, f (b is optional)	-	-	All	-	a, d, e*	a, b, c, f*, g, h	All
	1.3.7 Sewage effluent discharge with a volume greater than 5 m³/day up to and including 15 m³/day to groundwater (not requiring specific substances assessment)		All	a, b	a, f (b is optional)	-	-	All	-	a, d, e*	a, b, c, f*, g, h	All
	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, e*	a, b, c, d*, e*, f*, g, h	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	a, d, e*	a, b, c, d*, e*, f*, g, h	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*, e*	a, b, c, f*, g, h	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*, e*	a, b, c, d*, e*, f*, g, h	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	a, b*, c, e*	a, b, c, d*, e*, f*, g, h	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*, e*	b, g, h	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*, e*	b, g, h	All
Emergency overflow	1.3.20 Emergency overflows		All	a, b	-	a, l, m, n, o	-	All	-	a, b*, d*, e*	b, g, h	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	b*, d*, e*	b, f*, g, h	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	b*, d*, e*	b, d*, e*, f*, g, h	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	b*, c, d*, e*	b, d*, e*, f*, g, h	All
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	b*, d*, e*	b, f*, g, h	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	b*, d*, e*	b, d*, e*, f*, g, h	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	b*, c, d*, e*	b, d*, e*, f*, g, h	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) – known volume	1.3.5 Sewage effluent discharge with a volume up to and including 5 m³/day to surface water (not requiring specific substances assessment)		All	a, b, c, d	b, c, f	-	a, b	All	b, c, d	b*, e*	a, b, c, f*, g, h	All
Known volume	1.3.6 Sewage effluent discharge with a volume up to and including 5 m³/day to groundwater (not requiring specific substances assessment)		All	a, b, c, d	b, c, f	-	a, b	All	b, c, d	d, e*	a, b, c, f*, g, h	All
	1.3.7 Sewage effluent discharge with a volume greater than 5 m³/day up to and including 15 m³/day to groundwater (not requiring specific substances assessment)		All	a, b, c, d	b, c, f	-	a, b	All	b, c, d	d, e*	a, b, c, f*, g, h	All
	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	d, e	a, b, c, d*, e*, f*, g, h	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	d, e*	a, b, c, d*, e*, f*, g, h	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, c, f	-	a, b	All	b, c, d	b*, e*	a, b, c, f*, g, h	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, c, f	-	a, b	All	b, c, d	b*, e*	a, b, c, d*, e*, f*, g, h	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	b, c, d	a, b, c, d*, e*, f*, g, h	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)	1.3.5 Sewage effluent discharge with a volume up to and including 5 m³/day to surface water (not requiring specific substances assessment)		All	a, b	b, c, d, e, f	-	a, b	All	b, c, d	b*, e*	a, b, c, f*, g, h	All
containing rainfall- dependent effluent	1.3.6 Sewage effluent discharge with a volume up to and including 5 m³/day to groundwater (not requiring specific substances assessment)		All	a, b	b, c, d, e, f	-	a, b	All	b, c, d	d, e*	a, b, c, f*, g, h	All
	1.3.7 Sewage effluent discharge with a volume greater than 5 m³/day up to an including 15 m³/day to groundwater (not requiring specific substances assessment)		All	a, b	b, c, d, e, f	-	a, b	All	b, c, d	d, e*	a, b, c, f*, g, h	All
	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	d, e*	a, b, c, d*, e*, f*, g, h	All
	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	d, e*	a, b, c, d*, e*, f*, g, h	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	b, c, d, e, f	-	a, b	All	b, c, d	b*, e*	a, b, c, f*, g, h	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	b, c, d, e, f	-	a, b	All	b, c, d	b*, e*	a, b, c, d*, e*, f*, g, h	All
	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	b*, c, e*	a, b, c, d*, e*, f*, g, h	All

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Type of effluent	Charge band	Please tick box	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
Trade – returned abstracted water (including ground source heating and	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	b*, d*, e*	a*, b, d*, e*, f*, g, h	All
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	b*, c, d*, e*	a*, b, d*, e*, f*, g, h	All
	1.3.17 Aquaculture (not requiring specific substances assessment)		All	a, b, c, d	b, c, f	-	-	All	b, c, d	b*, d*, e*	a*, b, d*, e*, f*, g, h	All
	1.3.18 Aquaculture requiring specific substances assessment		All	a, b, c, d	b, c, f	-	-	All	b, c, d	b*, c, d*, e*	a*, b, d*, e*, f*, g, h	All

<sup>\*</sup> Check the relevant question and our guidance notes on part C6 to see if you need to give an answer.

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1	Ab	out the variation you are applying for	
1a	Give	e a brief description of the changes you want to make to your	permit
41-	<b>C:</b>	Abi- off	
1b		e this effluent a unique name use this name to identify this effluent throughout this applic	ation and all accordated documents
10u 1c			nder Schedule 21 of the EPR meaning of water discharge activity?
Yes		ins a release from a dam, wen of statee (reservoir release) at	inder schedule 21 of the Erik medning of water discharge activity.
No			
1d			his environmental permit to be able to carry out the discharge
(see Yes	B6 g	uidance notes for more details)?	
No			
N/A			
2	Ab	out the effluent – how long will you need to dis	charge the effluent for?
2a	Wha	at date do you want the permit for this effluent to start?	L (DD/MM/YYYY)
start	date		arted to discharge, unless you contact us to change (delay) the e before the permit is issued and cannot be changed (delayed)
2b	Is th	ne discharge time limited?	
Yes		Please give the date you expect the discharge to end but please note that your permit will not end on that	
		date and you will still need to notify us to surrender	
No		the permit	(DD/MM/YYYY)
No 2c		the discharge take place all year?	
Yes	\(\tau\)	the discharge take place all year.	
No		Please give details of the months when you will make	
		the discharge	
2d Yes	Will	the discharge take place on more than six days in any year?	
No			
3	Но	w much do you want to discharge?	
<b>3</b> а		at is the daily dry weather flow?	cubic metres
эа 3b		at is the maximum volume of effluent you will discharge	cubic meties
in a		at is the maximum volume of emacin you will discharge	cubic metres
	w hov		ue on a separate sheet if necessary, giving a reference for the

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3	now much do you want to discharge?, continued		
Docu	ument reference		
3c	What is the maximum rate of discharge?		litres a second
3d efflu	What is the maximum volume of non-rainfall dependent ent 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 worked out the f	igure on a separate sheet	
Docu	ument reference		
4	Intermittent sewage discharges		
4a	For each answer to b to o below, show how you worked out the	figure on a separate sheet	
Docu	ument 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		15
setti			litres per second
4e	What is the pass forward flow at the storm overflow setting?		litres per second
4f Yes No	Is the discharge screened?  Answer the relevant questions from 4g to 4j  Now go to 4k		
4g	What is the mesh screen spacing?		millimetres
4h mes	What is the minimum screen capacity flow through the h screen?		litres per second
4i	What is the bar screen spacing?		millimetres
4j scree	What is the minimum screen capacity flow through the bar en?		litres per second
4k Yes No	Is the overflow constructed to good engineering design?  On a separate sheet explain what standards the overflow ment reference	has been constructed to	
4l	What is the emergency storage capacity of the sewer and		
wet \			cubic metres
4m abov	What is the storage time within the sewer and the wet well ve the top water level at dry weather flow?		hours and minutes
4n	What is the pass forward flow at the pumping station?		litres per second
40	For intermittent emergency overflows you must provide a docu	ment setting out the key protectio	n measures you will provide
Docu	ument reference for pumping station key protection measures		
5	Should your discharge be made to the foul sewer	r?	
Foul	sewer means public or private foul sewer.		
Befo	re answering these questions, you must read the guidance note	s to part C6.	
	will also need to contact your sewerage undertaker (usually your lect to a private foul sewer.	local water company) and you ma	ay need to check if it is possible to
5a of th	How far away is the nearest foul sewer from the boundary e premises?		metres
5b	To assess whether it is reasonable to discharge your effluent in	to the foul sewer, please answer 5	5b1 or 5b2
5b1	Discharges from domestic properties		

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5 Should your disch	harge be made to the f	oul sewer?, co	ıtinued		
Multiply the number of prop	erties served by the sewage	treatment system b	y 30 metres.		
Number of domestic propert by the sewage treatment sys		× 30 metres	=	metres	
5b2 Discharges from all oth	ner premises including trade	effluent			
Divide the volume of the disc	charge (in cubic metres) by 0	.75 and then multi <sub>l</sub>	oly this figure by 3	0 metres.	
Volume of the discharge (answer to question 3b)	cub me	oic tres / 0.75 =		× 30 =	metres
No	b1 or 5b2 above greater than to explain why you cannot dis from you when we determine on a separate sheet why you re you submit the application I have approached the sewer	scharge your effluer your application. N I cannot discharge I, you must explore	nt into the foul sev ow go to question your effluent into t the possibility of o	wer at this point. Howev a 6. the foul sewer, giving a a connecting to the foul s	reference for the ewer, and send us
	st also show the extra cost of sical obstacles such as road			h the treatment system	you propose, and
<ul> <li>connection is not practice</li> <li>the proposed private tree</li> <li>We are unlikely to grant a perbeing proposed due to a lace</li> </ul>	onnecting to the foul sewer w cally feasible, or eatment system can be show ermit for a discharge of treate k of capacity in the nearest p	ould be unreasona n to significantly be ed domestic sewag ublic sewerage ne	nefit the environn e in circumstances work.	nent s where a private sewer	
	C6 will help you understand w	•	u need to provide	in order to answer this	question.
Document reference for whe	re you have given this justific	cation			
Document reference for whe 6b Fill in Table 2 for each s	ent? on 6b why the effluent will not be t re you have given this justific stage of the treatments carrie	cationed out on your efflu	ent in the order in	which they are carried o	out
	rried out on your effluen				
Order of treatment	Code number	Description			
First					
Second					
Third					
Fourth  Continue on a separate shee process.  Document reference	et if you need more rows. If yo	ou prefer, you can a	lso send us an ove	erall design for the who	le treatment
	<b>551</b> 12				
any of the specific substance surface water or groundwate relevant questions for your d 7a Are any of the specific	r to surface water, or onto or i es listed in the guidance doc er' – search for this term at w lischarge below. substances listed in 'Risk as	uments on 'Risk as ww.gov.uk/governn sessment for treate	sessment for treat nent/organisation d sewage or trade	ed sewage or trade efflu s/environment-agency a effluent discharges to s	uent discharges to and answer the surface water or
groundwater' likely to enter t Yes   No	the sewerage system upstrea	ım or the discharge	through any auth	orised or known inputs?	(

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#### 7 What will be in the effluent?, continued Are any of the specific substances listed in 'Risk assessment for treated sewage or trade effluent discharges to surface water or 7b groundwater' added to or present in the effluent as a result of the activities on the site? Yes No Have any of the specific substances listed in 'Risk assessment for treated sewage or trade effluent discharges to surface water or groundwater' been detected in samples of the effluent or in the sewerage catchment upstream of the discharge? Yes No $\Box$ Are there any other harmful or specific substances in your effluent not mentioned in 'Risk assessment for treated sewage or trade effluent discharges to surface water or groundwater'? Yes Nο 7e What is the maximum temperature of your discharge? degrees Celsius 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. 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' at www.gov.uk/government/organisations/environment-agency. Send us details of how the modelling was carried out and the outcome. Document reference for the sewer modelling report 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' at www.gov.uk/government/organisations/environment-agency. Send us details of how the modelling was carried out and the outcome. Document reference for the modelling report Discharges to freshwater (non-tidal) rivers If the discharge contains, or potentially contains, any specific substances, you must carry out screening following the guidance 'Surface water pollution risk assessment for your environmental permit' at www.gov.uk/government/organisations/environment-agency. The guidance notes on part C6 outline the information you must provide. Have you answered yes to any of 7a to 7d? 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 No Discharges to groundwater You must carry out a groundwater quantitative risk assessment following the guidance in 'Groundwater risk assessment for your

environmental permit' at www.gov.uk/government/organisations/environment-agency. Send us details of how the modelling was

For groundwater remediation schemes you must send us a site-specific remediation strategy that has been agreed with the local

carried out and the outcome.

Environment Agency Groundwater and Contaminated Land Team.

Document reference for the groundwater remediation report

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#### 8 Environmental risk assessments and modelling, continued

•				
8e	Environmental impact assessment			
Have	you carried out an environmental impact assessment?			
Yes	Send us details of how the assessment was carried	d out and the ou	itcome	
Docu	iment reference for the environmental impact assessmen	nt		
No				
9	Monitoring arrangements			
Note	: If your effluent has a maximum volume of <b>no more than</b>	50 cubic metre	s a day you do not need to co	mplete question 9d or 9e.
9a poin	What is the national grid reference of the inlet sampling t? (for example, SJ 12345 67890)			
9b poin	What is the national grid reference of the effluent samplet?	le L		
9c Yes	Do you have an Urban Waste Water Treatment Directive  Please provide the national grid reference	final effluent sa	mpling point?	
No				
9d poin	What is the national grid reference of the flow monitorint?	ng L		
9e	Does the flow monitor have an MCERTS certificate?			
Yes	☐ Please give the certificate number			
No				
9f	Do you have a UV disinfection efficacy monitoring point	?		
Yes	☐ Please provide the national grid reference			
No o~	Vou should sleavly mark on the plan the legations of any	, of the above th	est apply to this offlyant	
9g Door	You should clearly mark on the plan the locations of any	or the above ti	iat apply to this entuent	
	Iment reference for the plan			
9h Yes	Do you intend to do your own effluent monitoring?			
No				
10	Where will the effluent discharge to?			
10a	Mark in Table 3 where this effluent discharges to and fill	l in the relevant	appendix or appendices.	
	must use the name you gave to this effluent in answer to endices.	question 1b of	his form when filling in your r	elevant appendix or
Tab	le 3 – Where the effluent discharges to		_	
Rece	eiving environment		Relevant appendix	
Bore	ehole or well		1	
Into	land (for example, through a drainage system)		2	
Onto	o land		3	
Tida	l river, tidal stream, estuary or coastal waters		4	
Non	-tidal river, stream or canal		5	
Lake	e or pond		6	
10b Yes	Is this effluent discharged through more than one outle  Give details, on a separate sheet, of the circumsta		h each outlet would be used	by this effluent
	iment reference		on cach oaliet would be used	sy and emacin
No				
	If you answered yes to question 10b above make sure y that this one effluent can discharge to more than one dis		on your discharge point appe	endix or appendices and site

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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: www.gov.uk/government/organisations/environment-agency

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**

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 guidance notes easy to understand. Please use the space below to give us any comments you may have about this form or the guidance notes that came with it.	
How long did it take you to fill in this form?	-
We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.	
Would you like a reply to your feedback?	
∕es please □	
No thank you	

Plain English Campaign
------------------------

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

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#### 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' at www.gov.uk/government/organisations/environment-agency.

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

the chacheronn.	
1.1 Give the discharge point a unique name For example, 'Outlet 1' (you must use this name to identify the discharge point on the plan)	
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 deep structure that the effluent will be discharged into?	metres
<ul> <li>1.5 Is the borehole, well or other structure already constructed?</li> <li>Yes  Now answer questions 1.6 to 1.9</li> <li>No  Now answer questions 1.10 to 1.12</li> </ul>	
Existing borehole, well or other deep structure	
1.6 What is the total depth to the bottom of the existing well, borehole or other structure?	metres below ground level
If you are unaware of the actual depth please estimate the depth base	ed on the following categories:
0–5 metres	
5–10 metres	
Greater than 10 metres	
Uncertain	
What evidence is the estimated depth above based on?	
1.7 Does the well, borehole or other structure extend into groundwa	ater?
Yes – always contains water	
Sometimes – water is present occasionally	
No – never contains water	
If groundwater is always, or sometimes, present, what is the highest $\boldsymbol{l}$	evel that the standing water reaches?
Measured	metres below ground level
Estimated	metres below ground level

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

- 1.8 Please provide any records, diagrams or borehole logs you may have that could help us understand:
- the method of construction (including any solid casings or linings used)
- the likely depth of the deep structure

What will the total depth be?

,	groundwater conditions			
			r example, if the documents	are large or bulky) please summarise any
	ormation you have on a	•		
		iagrams or borehole logs		
1.9 If any m please give de		rried out on your well, boreho	ole or other deep structure (fo	or example, to aid effective drainage),
Please now a	nswer question 1.13			
Proposed be	orehole, well or othe	r deep structure that has	not yet been constructe	ed .
1.10 Please t	ell us why you are unabl	e to install a shallow enginee	ered drainage system. This in	formation forms an important part of our
				hy did you decide these were not akage tests and summarise in the box
any relevant i	nformation supporting y			owners or physical constraints, or land
availability or	proximity to buildings).			
1.10a What	t was your percolation va	lue (Vn) result?		seconds per millimetre
		rked out the percolation valu	P	seconds per minimetre
	ercolation value	inca out the percolation valu	<b>.</b>	
Table 4 - Pt		Trial 2	Trial 3	Average
	Trial 1	Iffat 2	IIIdi 3	Average
Hole 1				
Hole 2				
Hole 3				
Hole 4				
		age system were feasible,		
system?	e the required surface ar	ea of your inflitration	ı	ı square metres
•	formation to explain why	vou are unable to install a s	hallow engineered drainage:	system can be appended to your
application.	Tomacion to explain mi	, you are analyse to motall a s	manion ongmoored diamage.	system can be appended to you.
Document ref	erence for these details			
1.11 Please t	ell us the type of deep s	tructure (for example, boreho	ole, well, deep soakage pit) yo	ou propose to install

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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.
Proximity 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
1.15 What is the distance to the nearest watercourse (for example, surface water, river, stream or ditch)? metres
Please 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 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 www.gov.uk/government/organisations/environment-agency. 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 ( $\checkmark$ ) in Table 5. For further guidance on the additional information required please search for 'Groundwater risk assessment for your environmental permit' at www.gov.uk/government/organisations/environment-agency and the guidance notes on part C6. 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.

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

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

Information	Description	Existing structure			
Information supplied by the applic This has already been requested ea					
National grid reference of the discharge point		Appendix 1 Q2	Appendix 1 Q2		
Volume of effluent (m³ per day)		Q3b	Q3b		
Type of effluent treatment	Septic tank, package treatment plant, other	Q6	Q6		
Type of deep infiltration system	Borehole, well, concrete ring structure, other	Appendix 1 Q3	Appendix 1 Q3	Information	
Diameter of deep infiltration system (metres)		Appendix 1 Q4	Appendix 1 Q4 supplied		
Depth to the base of deep infiltration structure (metres)		Appendix 1 Q6	Appendix 1 Q11	the application form	
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? Provide full details of the infiltration tests undertaken plus results	Appendix 1 Q8 if available	Appendix 1 Q10		
already available. If not, you can su	ant eed from you that is not provided elsewhere on the lbmit the relevant literature values quoting the sou d column to confirm you have provided this essent	rce of the data and ju			
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>			
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>		
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 above 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>	✓		

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

Information	Description	Existing structure	Proposed structure	Information supplied?
Information provided by the Envir You are free to provide this inform provided this information (optional	ation if you wish, or in some specific cases we may r	need to ask for this at	a later stage. Pleas	e tick if you have
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)		*	*	
Soil water partition coefficient (litres per kilogramme)	If you wish to know more about these parameters see 'Groundwater risk assessment for your environmental permit' at	*	*	
Mixing zone thickness (metres)	www.gov.uk/government/organisations/ environment-agency	*	*	
Distance to compliance point (metres)	— environment-agency	*	*	

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#### 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.

For e		et 1' (you mu	a unique name est use this name	to identify the				
2.2 Give the national grid reference of the discharge point								
2.3 Is your infiltration system new or existing?								
New						w go to question		
Exist	_				☐ No	w go to question	2.4	
	When was it							
2.4b	2.4b Now answer questions 2.5–2.8 if you are able to, if not leave them blank and go to question 2.9							
	Is your infiltr of installation	ation system 1?	designed and bu	ilt to British Standard	d 6297:2	007 + A1:2008 o	r the British	Standards in force at the
Yes No	□ Please	nrovide detai	ils, on a senarate	sheet, of the design	criteria u	sed for vour infilt	ration syster	n
		ent reference	•		1	, , ,		
2.6	On what dat	e did you car	ry out a percolation	on test and dig a				
			ndard 6297:2007				(DD	/MM/YYYY)
2.7	What is your	percolation v	value (Vp) result?				sec	onds per millimetre
			ou worked out th round conditions		Please al	so provide your t	est sheets a	nd any field notes or
Tabl	le 6 – Perco	lation valu	e					
		Trial 1		Trial 2		Trial 3		Average
Hole	1							
Hole	2							
Hole	: 3							
Hole	<u>.</u> 4							
2.8	Please show	us how you	have calculated th	ne area (A) of your inf	filtration	system		L
р		\/m		0. 25 for conti	. 40 10 10	,		
or L		×Vp		× 0.25 for seption	t tanks =	Α	squ	iare metres
Г								
p L	Donulation h	×Vp	L kimum occupancy	× 0.20 for packa	age treatr	nent plants = A		square metres
p Vn	•	alue in seco						
Vp				lad the extent of the	infiltratio	on system Dlease	ita an tha	a plan the length and width
2.9 of the	e sides in met		ii you nave provid	ied the extent of the	IIIIIIIIIIIII	iii systeiii. Ptease	wille on the	e plan the length and width
2.10	Is any part o	f your infiltrat	tion system withir	n 50 metres of a well,	, spring o	r borehole?		
No								
Yes	☐ Identify	the location	of the well, spring	g or borehole on the	plan you	have provided a	nd answer q	uestion 2.11
2.11	Is the well, s	pring or bore	hole you have ide	entified used to supp	ly water?			
No			Large and the same	1. 1.				
Yes	☐ You mu	st describe w	hat the water sup	oplied is used for				
2.12	ls anv nart o	f vour infiltrat	tion system within	10 metres of a wate	ercourse?			
No		. ,	5,500111 1110111	5stres or a wate				

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Identify the location of the watercourse on the plan you have provided for section 4 of part C2

Yes 🗌

#### 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.

1
nt is disposed of
☐ Please specify below
square metres ell, spring or borehole? se plan you have provided and answer question 3.6 oply water?
ntercourse?

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### 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.

For ex	Give the discharge point a unique name cample, 'Outlet 1' (you must use this name to identify the arge point on the plan)	
4.2	Give the national grid reference of the discharge point	
	Give the name of the tidal river, tidal stream, estuary or of coastal water if you know it	
4.4	Is the discharge into a	
Tidal	river	
Tidal	stream	
An es	tuary	
Coast	tal water	
4.5	Does the discharge reach the watercourse by flowing through a	surface water sewer?
Yes	☐ Give the national grid reference where the discharge enters the surface water sewer	1
No		
4.6	Is the discharge point above the mean low water spring tide ma	rk?
Yes	☐ Please explain, on a separate sheet, why the discharge cal	nnot be made below this point
Docui No	ment reference	
	How is the effluent dispersed? kample, open pipe or diffuser system	
lf diff	user system go to question 4.8	
4.8	Give details, on a separate sheet, of the design of the diffuser s	ystem
Docui	ment reference	

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### 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.

For e	Give the discharge point a unique name xample, 'Outlet 1' (you must use this name to identify the narge point on the plan)	
5.2	Give the national grid reference of the discharge point	
5.3 wate	Give the name of the watercourse, canal or the main rcourse it is a tributary of if you know it	
5.4	Is the discharge into a	
Non-tidal river		
Stream		
Canal		
5.5	Does the discharge reach the watercourse or canal by flowing th	rough a surface water sewer?
Yes	Give the national grid reference where the discharge enters the surface water sewer	
No		
5.6	Does the watercourse dry up for part of the year?	
No		
Yes		

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### 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.

	Give the discharge point a unique name example, 'Outlet 1' (you must use this name to identify the harge point on the plan)				
6.2	Give the national grid reference of the discharge point				
6.3	Give the name of the lake or pond if you know it				
6.4	Select from the following table the type of lake or pond you will be	oe disch	arging to and answer th	e relevant q	uestions
Туре	e of lake or pond		Relevant questions		
Lake	e or pond which is not connected to a river or watercourse		Permit not required*		
have	e or pond which is not connected to a river or watercourse, where you e had a notice served under paragraph 5 of Schedule 21 of the ironmental Permitting (England and Wales) Regulations 2016		6.5, 6.6, 6.7		
Lake	e or pond that discharges into a river or watercourse		6.5, 6.6, 6.7		
* Un 2016	less a Notice has been served under paragraph 5 of Schedule 21 o	of the Er	nvironmental Permitting	(England ar	nd Wales) Regulations
6.5	What is the surface area of the lake or pond?			square m	eters
6.6	What is the maximum depth of the lake or pond?			meters	
6.7	What is the average depth of the lake or pond?		J	meters	

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