

**The Water Environment (Controlled Activities) (Scotland) Regulations 2011**

**Licence Application**

**FORM B**

**Complete this form for point source discharges other than fish farm effluent**

**Contents**

**Section 1: General Discharge Information**

**Section 2: Sewage Effluents >15pe**

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**Section 5: Indirect/Direct Discharges to Groundwater (including soakaways)**

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| **The Data Protection Act 1998**  “The Scottish Environment Protection Agency is responsible for maintaining and improving the environment and regulating environmental emissions. It has a duty to discharge its functions to protect and enhance the environment and to promote conservation and recreation.  The information provided will be processed by the Scottish Environment Protection Agency to deal with your application, to monitor compliance with the licence/permit/registration conditions, to process renewals, and for maintaining the relevant public register(s).  We may also process and/or disclose it in connection with the following:   * offering/providing you with our literature/services relating to environmental affairs * consulting with the public, public bodies and other organisations (e.g. Health and Safety Executive, Local Authorities, Emergency Services, Scottish Executive) on environmental issues * carrying out statistical analysis, research and development on environmental issues * providing public register information to enquirers * investigating possible breaches of environmental law and taking any resulting action * preventing breaches of environmental law * assessing customer service satisfaction and improving our service.     We may pass it on to our agents/representatives to do these things on our behalf.    **You should ensure that any persons named on this form are informed of the contents of this Data Protection Notice**. |

**FORM B Point Source Discharges other than fish farm effluent**

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| **SECTION 1: GENERAL DISCHARGE INFORMATION** |

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| **1.1 If not already included on your ‘Site Plan’ (see Form A), please provide a “Drainage Plan” showing:**   * The site drainage layout (if applicable) * All discharge point(s) locations * The location of any treatment facilities and sample chamber(s) * Identify pollution risk areas/chemical and oil stores   Reference the Plan “Drainage Plan” and attach it to your application |

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| **1.2 Will the effluent come from** (tick box) | | | | | |
| an existing development or discharge |  | a new development or discharge? |  | an alteration to  an existing development or discharge? |  |

**1.3 About the outlet(s)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **1.3.1 Please give the National Grid Reference for the discharge outlet** (10 Character e.g. XY 1234 5678) | | - - | | | | | |
| **1.3.2 Will the discharge(s) be made through: *(please tick)*** | \*a new outlet\*? | |  | \*an alteration to an existing outlet? |  | an existing outlet? |  |
| **1.3.3** \***If a new outlet or alteration to existing outlet**: submit outlet design so that SEPA can agree your engineering proposals, prior to licensing.  Where applicable, please provide a method statement detailing working practices and environmental protection during construction of the outlet. | | | | | | | |
| What provision will be made for samples to be taken of the effluent discharged?(*e.g. sampling chamber, automatic sampler)* Please also show location of sampling point in the drainage plan detailed in section 1.1 above | |  | | | | | |

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| 1.4 If you claim Environmental Service for any of your activities then your reasoning/justification must be set out on a separate sheet referenced “Environmental Service Claims”. Information on Environmental Service is available from the Charging Scheme guidance found on the SEPA website: <http://www.sepa.org.uk/regulations/authorisations-and-permits/charging-schemes/charging-schemes-and-summary-charging-booklets/> |

**1.5 Please indicate which of the following discharges you will be applying to undertake**. For multiple discharges of the same type, please list within the appropriate boxes.

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| **Discharge** | Detail | *Registration (R)*  *State Number* | Simple Licence (SL)  *State Number* | Complex Licence *(CL)*  *State Number* | National Grid reference for each outlet (i.e. 10 characters XY 1234 5678) | Outlet Diameter mm and type (material) of pipe | Receiving environment for each discharge   * River * Freshwater Loch * Coastal/Estuary * Land no soakaway * Land via soakaway * groundwater | Partial Soakaway  (Y or N)  If yes please state size in square metres | Name of receiving environment (if unknown please state “tributary of“ *name of major water*) |
| **Sewage (public)[[1]](#footnote-1)** | CSO |  |  |  |  |  |  |  |  |
|  | EO |  |  |  |  |  |  |  |  |
|  | Untreated |  |  |  |  |  |  |  |  |
|  | Primary *(includes septic tank)* |  |  |  |  |  |  |  |  |
|  | Secondary |  |  |  |  |  |  |  |  |
|  | Tertiary |  |  |  |  |  |  |  |  |
| **Sewage (private**) | CSO |  |  |  |  |  |  |  |  |
|  | EO |  |  |  |  |  |  |  |  |
|  | Untreated |  |  |  |  |  |  |  |  |
|  | Primary |  |  |  |  |  |  |  |  |
|  | Secondary |  |  |  |  |  |  |  |  |
|  | Tertiary |  |  |  |  |  |  |  |  |
| **Other Effluent[[2]](#footnote-2)** | Potable water supply |  |  |  |  |  |  |  |  |
|  | Other organic effluent |  |  |  |  |  |  |  |  |
|  | Cooling Water |  |  |  |  |  |  |  |  |
|  | Other effluent |  |  |  |  |  |  |  |  |
| **Surface Water (Public)** | Housing |  |  |  |  |  |  |  |  |
|  | Commercial, Industrial & other |  |  |  |  |  |  |  |  |
| **Surface Water (Private)** | Motorways & major roads |  |  |  |  |  |  |  |  |
|  | Housing  Commercial,  Industrial & other |  |  |  |  |  |  |  |  |

**FORM B SPECIFIC DISCHARGES** Please complete relevant sections only

For **foul only separate sewage systems serving domestic premises**, complete only **section 2.1** and section **2.6** (if an Emergency Overflow is provided) along with **section 4** (if discharge is to groundwater).

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| **SECTION 2: SEWAGE EFFLUENT (>15 pe)** |

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| **2.1 FOUL ONLY SEPARATE SEWAGE SYSTEMS SERVING DOMESTIC PREMISES** | |
| **2.1.1** **What is the maximum population equivalent that the sewage system will serve?** | Design pe |
| **2.1.2** **For new private sewage treatment plants please give reasons that connection to sewer for sewage effluent is not practicable.** |  |
| **2.1.3 What is the anticipated maximum flow of domestic sewage (in cubic metres per day)?** | m3/d |
| Note: The maximum flow should be derived using Section 5 of the latest Flows and Loads document - Sizing Criteria, Treatment Capacity for Small Wastewater Treatment Systems (package plants) [available on British Water website: [www.britishwater.co.uk/](http://www.britishwater.co.uk/) | |

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| --- | --- |
| **2.2 SEWAGE EFFLUENT GENERAL QUESTIONS** | |
| **2.2.1** **How many people will the sewage system serve?**  (*both current population and projected design population*) | Total current pe  Design pe |
| **2.2.2**  **For new private sewage treatment plants please give reasons that connection to sewer for sewage effluent is not practicable.** |  |

|  |  |
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| **2.2.3** **What is the anticipated flow of domestic sewage or mean flow of effluent?**  *(in cubic metres per day)* | m3/d |
| *Note: Please explain how the flows have been derived. In particular you should specify the details of any flow monitoring programmes.* |  |

|  |  |
| --- | --- |
| **2.2.4** **What is the anticipated flow of trade effluent?**  *(in cubic metres per day)* | m3/d |
| *Note: Please explain how the flows have been derived. In particular you should specify the details of any flow monitoring programmes.* |  |

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| **2.2.5** **What is the average infiltration rate?**  *(in cubic metres per day)* | m3/d |
| *Note: Please explain how the flows have been derived. In particular specify the details of any flow monitoring programmes carried out to estimate the infiltration rate. Details of seasonal variations in infiltration flow should be provided if possible.* |  |

|  |  |
| --- | --- |
| **2.2.6** **What is the current and design dry weather flow?**  *(in cubic metres per day)* | Current  m3/d  Design  m3/d |
| Note: Please explain how the flows have been derived. |  |

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| **2.2.7** **Please provide a description of any significant trade discharges to the sewer.** |  |

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| **2.3 SEWAGE TREATMENT WORKS** |

|  |  |
| --- | --- |
| **2.3.1. What will be the mean daily flow of effluent?**  *(in cubic metres per day)* | m3/d |
| Note: Please explain how the flows provided have been derived. In particular you should specify the details of any flow monitoring programmes. |  |

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| --- | --- |
| **2.3.2. What will be the maximum flow rate to full treatment?**  *(in litres per second and as a multiple of DWF)* | l/s  DWF |

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| **2.3.3. How will the sewage be treated before it is discharged and what is the anticipated quality of the discharge?** | |
| *Primary treatment details:*  *Secondary Treatment details:*  *Tertiary Treatment details:*  *Other treatment:*  *Anticipated effluent quality:*  *(Specify whether 95%ile etc. For discharges <200 p.e. use Mean standard)* | *Note: Please enclose supporting documents as necessary which should include detailed plans, design criteria, process description and quality information* |

|  |  |
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| **2.3.4. How will mechanical failures of the treatment facilities be detected *(e.g. telemetry, alarms)?***  **2.3.5. Describe the maintenance arrangements for the system e.g. contracted to whom, regularity of checks and availability of spare parts etc** |  |

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| **2.4 COMBINED SEWER OVERFLOWS (CSOs)** |

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| **2.4.1. At what rate of flow will the overflow start operating?**  *(litres per second and as a multiple of DWF)* | l/s  x DWF |
| *Note: Please explain the choice of overflow setting* |  |

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| **2.4.2. What will the maximum rate of discharge be?**  *(litres per second and as a multiple of DWF)* | l/s  x DWF |

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| **2.4.3. What treatment will be provided?** |  |
| *Note: Please enclose supporting documentation covering detailed plans and design criteria* | |

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| **2.4.4 What storage volume in excess of DWF will be provided within the sewerage system which will delay the operation of the overflow**  *(in cubic metres)* | m3 |

|  |  |
| --- | --- |
| **2.4.5 What is the predicted spill frequency per year?**  *(number and duration)* | Number of spills per year  Duration of spills per year/per event? |
| *Note: Please provide an explanation of how the predicted spill frequency of the overflow was derived.* |  |

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| **2.4.6 CSO ASSESSMENT DETAILS** |

The following information is required to assist SEPA in reaching licence decisions for intermittent discharges. Groups of CSOs discharging into bodies of water where there is likely to be a degree of interaction should be considered together. The form should be completed by the Water Authority or their agent after consultation with the relevant SEPA officers.

|  |  |
| --- | --- |
| 2.4.7 CSO location for each outfall (further detail required for CSOs) | |
| 10 character Grid Reference(s) of CSO(s)  - -  - -  - - | 10 character Grid Reference(s) of outfall point(s)  - -  - -  - - |

**2.4.8 DRIVERS – Known or potential impacts**

|  |  |
| --- | --- |
| Bathing Waters… Yes  No  Shellfish Waters Yes  No  Urban Wastewater… Yes  No  Recreational water… Yes  No  Dangerous Substances Yes  No | Flooding upstream… Yes  No  Visual or aesthetic impact… Yes  No Justified public complaint… Yes  No  Deterioration in river class… Yes  No  Operates in dry weather… Yes  No |

|  |  |
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| **2.4.9 CONTRIBUTING AREA(S)** Enter data where available/ appropriate | |
| **Existing** Catchment area (Ha)\* Percentage catchment on combined sewer Existing Population P Infiltration I Trade Flow E Measured dry weather flow Calculated dry weather flow | **Future Design** [from L.A. structure plans]Catchment area (Ha)\* Percentage catchment on combined sewer Future Design pop P Infiltration I Trade Flow E Dry weather flow at inlet(s) Continuation flow(s) |

**2.4.10 INDUSTRIAL EFFLUENT INFORMATION** - List main trades contributing > 20% of DWF loading for any of the chemicals listed in the Annex to this form. For organic discharges please give p.e.

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| **Name Sector Chemical Peak Conc. Annual Ave. Conc. % of DWF P.E. (if applicable)?** |

\* from Drainage Area Studies

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| --- | --- | --- |
| **2.4.11 PROPOSED DISCHARGE** | | |
| Formula A flow  Spill rate with one year return period Spill volume with one year return period  Duration of spills per year  Number of spills per bathing season and per year  Screen aperture  Spill/weir setting  Volume of storage  Largest inlet pipe diameter | (l/d)  (l/s)  (m3)  (h)  (mm)  (l/s)  (m3)  (mm) |  |

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| **2.4.12 SEWERAGE MODELLING** | |
| Modelling software used including version | Location of key pumping installations |
| Specification for model assembled, give an indication of degree of simplification. |  |
| MODEL INPUTS |  |
| **Rainfall events used for verification**. SEPA is particularly concerned to ensure that the most valid model inputs available are used in the modelling exercises. | |
| Time series rainfall used Software used to produce time series | Location of series  Recorded data used (location, date)  Last revision of time series |
| **MODEL OUTPUTS** This information is to assist SEPA with evaluation of model verification | |
| **Graphs** Give details of graphical information supporting the application. | **Summary tables** Give details of tabular information supporting the application. |

**2.4.13 WATER QUALITY MODELLING**

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| Provide details of any associated river or marine model |
| 95%ile river flow/initial dilution at discharge point(s) |

**2.4.14 PAST OR PROPOSED MONITORING**

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| Historical monitoring information is particularly important where existing discharge locations are to be maintained, include details of proposed monitoring facilities |

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| **2.5 STORM TANKS** |

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| **2.5.1. What storm tank volume will be available?**  *(in cubic metres) Please show by calculation how this size is justified as a means of preventing polluting releases to the environment* | m3 |

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| **2.5.2. How will the return of storm tank contents be achieved?**  *(describe whether manual/automatic return, and pump rates)* |
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| **2.6 EMERGENCY OVERFLOWS** |

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| **2.6.1 Please state the justification for the emergency overflow** |
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| --- | --- | --- | --- | --- | --- |
| **2.6.2. Describe the pump rates** | | | | | |
| Number of pumps in pumping station: |  | Pump rate(s) (specify units) |  | | l/s  m3/d |
| Pumping regime:  (select orspecify) | Duty/standby Duty/assist Duty/assist/standby | | Other: |  | |

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| **2.6.3. What sort of warning system will you use to identify pump failure/operation of overflow?**  *(e.g. alarms, telemetry connections)* |
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| **2.6.4. How will you deal with power failures?** |
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| **2.6.5. What storage capacity will be provided which will delay the operation of the overflow?*(****in cubic metres)* | m3 |

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| **SECTION 3: DISCHARGES OF OTHER EFFLUENTS INCLUDING TRADE EFFLUENT** |

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| **3.1 About the Effluent** Please describe the type of process you plan to carry out on the site. E.g. type of operations giving rise to each effluent to be discharged. |  |
| **3.2 What will each effluent be composed of?**  Please list the content of the effluent. Also check the Annex to this form and complete the table for any Annex substances within your treated effluent, giving the maximum and mean annual concentrations. *You should include information on the daily, weekly and/or seasonal patterns, if these are likely to be significant.*  For discharges to groundwater with a high loading factor (see associated guidance notes) please detail Maximum, Minimum and Mean Annual concentrations within the treated effluent to be discharged. | **TREATED EFFLUENT COMPOSITION (INC. ANNEX SUBSTANCES)**   |  |  |  | | --- | --- | --- | | Substance: | Concentration | Units | |  | Maximum:  Min:  Mean annual: |  | |  | Maximum:  Min:  Mean annual: |  | |  | Maximum:  Min:  Mean annual: |  | |  | Maximum:  Min:  Mean annual: |  | |  | Maximum:  Min:  Mean annual: |  | |  | Maximum:  Min:  Mean annual: |  | |  | Maximum:  Min:  Mean annual: |  | |
| **3.3 Does the untreated effluent ( i.e. pre treated influent) contain any compound listed in the Annex to this form? If so, please give the mean annual and maximum concentration of each substance in the influent flow,** ensuring that the maximum concentration and mean annual concentration in the treated effluent is given above. You should include information on the daily, weekly and/or seasonal patterns, if these are likely to be significant. | **ANNEX SUBSTANCES IN INFLUENT**   |  |  |  | | --- | --- | --- | | Substance: | Concentration | Units | |  | Maximum:  Mean annual: |  | |  | Maximum:  Mean annual: |  | |  | Maximum:  Mean annual: |  | |  | Maximum:  Mean annual: |  | |  | Maximum:  Mean annual: |  | |  | Maximum:  Mean annual: |  | |  | Maximum:  Mean annual: |  | |

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| **3.4 List bulk and hazardous chemicals and wastes held on site and explain how these will be contained.** |
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| **3.5 How will the effluent be treated before it is discharged?** |
| Primary treatment details:  Secondary treatment details:  Tertiary treatment details:  Other treatment: |
| *Note: Please enclose supporting documents which should include detailed plans, design criteria, and treatment process description* |

|  |  |
| --- | --- |
| **3.6 What will be the mean and maximum daily volume of treated effluent discharged?**  (*in cubic metres per day)* | Mean  m3/d    Maximum  m3/d |
| *Note: You should include information on the weekly and/or seasonal patterns, if these are likely to be significant.* |  |

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| --- | --- |
| **3.7 Please provide the maximum rate of flow of the treated effluent** (*in litres per second)* | l/s |

|  |  |
| --- | --- |
| **3.8 If the discharge temperature is changed by heating or cooling please provide the mean and expected temperature range of the discharge.**  *(in degrees centigrade)* | Mean:  oC  Range:  oC |

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| --- | --- |
| **3.9 How will mechanical failures of the treatment facilities be detected** *(e.g. telemetry, alarms)?* |  |
| **3.10 *D*escribe the maintenance arrangements for the treatment system e.g. contracted to whom, regularity of checks and availability of spare parts etc.** |  |

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| --- | --- |
| **3.11 If sewage is included in this discharge, how many people will the system serve?** (or give population equivalent) | No. Residents:  No. day workers :  Total p.e.: |

|  |  |
| --- | --- |
| **3.12 What impermeable surface area will drain rainfall to the treatment system?** *(in square metres)* | m2 |

*Note: Uncontaminated surface water should be excluded from the effluent treatment plant where possible.*

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| **3.13 How will any remaining surface water be treated?**  *Note: If you will be making a separate discharge of surface* *water, you should discuss with SEPA whether it will be necessary to fill in Section 4 of this form* |  |

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| **SECTION 4: Discharge OF LICENSABLE Surface Water including SUDS (see applicant guide for thresholds of when a licence is required for surface water discharges)** |

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| **4.1.**  **Please describe the area to be drained *(e.g. a 1000 house development or industrial estate areas) and* state**  **the previous land use** (e.g. *industry type, housing, greenfield etc.)* |
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*Note: Your plans should include: (1) the area draining to the discharge - detailing the drainage system proposed, as well as existing natural drainage features; (2) planned development features including roads, parking areas and buildings.*

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| **4.2.** **Will there be any high pollution risk areas?**  *(This refers to areas such as re-fuelling/ wash bays, material storage or unloading areas)* |
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*Note: Your plans should detail the relevant areas and a description of the preventative measures taken*

*(e.g. oil interceptor, diversion to foul sewer, bunding)*

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| --- | --- |
| **4.3**  **What will be the total impervious area which will drain rainfall to the outfall?** *(in square metres and as a proportion of the total drainage area)* | m2  % |

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| **4.4. Please provide a brief description of the surface water management train (*e.g. prevention, source control, site control, regional control)*** |

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| **4.4.1** **What provision will be made for source control SUDS measures including those which direct rainfall to land?** |
|  |

|  |  |
| --- | --- |
| **4.4.2.** **If infiltration systems are to be installed please provide information on soil type and porosity** (include percolation test results). *Note:* *This refers to the use of permeable surfaces, swales, filter drains, infiltration trenches, soakaways etc which limit the direct access of rainfall to surface water drains. Please provide drawings of the structure used and documentation covering the design.* |  |

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| **4.4.3.** **Please detail any additional SUDS treatment measures after the source control measures**. *Note:* *This refers to structures such as ponds, basins and wetlands. Please provide drawings of the structure used and documentation covering the design (including treatment volume Vt (m3)).* |
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| ***4.5.* Please demonstrate (by providing calculations ) how the SUDS measures will provide attenuation and restrict flow to the pre-development (i.e. greenfield) run off rates?** |
| *(This question is inserted to cover the sustainable flood management duties in WEWS and to protect ecological status by maintaining natural river flows. )* |

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| ***4.6*. Please provide details of the SUDS adoption and maintenance agreements.** |
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| **SECTION 5: Discharge OF Effluent to aN Inflitration system, onto/into land OR directlY to groundwater** |

**The Prior Investigation Information**

Part 1 of the form is to be completed for all discharges. Part 2 of the form is only to be filled out for trade effluent discharges with a high loading classification (see guidance notes), sewage effluent discharges of >50pe, or discharges of <50pe where there is a sensitive receptor close by SEPA may also request some of this information – where this is the case please discuss with SEPA. See Guidance Notes for information relating to the numbering.

**THE PRIOR INVESTIGATION FORM**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **PART 1 (to be completed for all discharges)** | | | | | | | | | | |
| a) Nature of discharge point | Direct to groundwater (e.g. down a borehole) 1 | | | | Infiltration system (e.g. soakaway) | | | | | Land (e.g. spreading on soil surface) |
| b) Loading Classification 2  (This is required for trade effluent discharges only) | Low-Medium  Provide calculations and justification | | | | High  Provide calculations and justification | | | | | |
| c) Depth to groundwater3 | metres below ground level  Date (s) measured | | | | | | | | | |
| d) Location of groundwater abstractions within 500m 4 | Location Description (e.g. Bog Farm) | | NGR (e.g. NO1234 5678) | | | | Type of supply (e.g. well used for drinking) | | | |
| 1. | |  | | | |  | | | |
| 2. | |  | | | |  | | | |
| 3. | |  | | | |  | | | |
| e) Location of nearby surface waters e.g. rivers, ditches, wetlands etc within 200m. 5 | Description (e.g. The Blue River) | | NGR (NO 1234 5678) | | | | Type (e.g. burn/river/ditch) | | | |
| 1. | |  | | | |  | | | |
| 2. | |  | | | |  | | | |
| 3. | |  | | | |  | | | |
| f) Distance to field drains within 10m6 | metres | | | | | | | | | |
| g) Slope7 | Steep (>1:5) |  | | Shallow (1:5-1:20) | |  | | Relatively Flat (<1:20) |  | |
| h) Vp Values (seconds/mm)8 | 1. | | | 2. | | | | 3. | | |
| i) Subsoil type9 (trial pit logs should be provided) | Sands and gravels | | | | |  | | | | |
| SAND | | | | |  | | | | |
| Silty, SAND or silty clayey SAND | | | | |  | | | | |
| Sandy SILT | | | | |  | | | | |
| Peat | | | | |  | | | | |
| Clay | | | | |  | | | | |
| Other | | | | | **Please specify** | | | | |

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| --- | --- | --- | --- |
| j) Thickness of superficial deposits10 | metres from ground surface | | |
| k) Area of Infiltration system11 | square metres (m2) | | |
| l) Length of Soakaway12 | metres (m) | | |
| m) Type of treatment proposed (if applicable) |  | | |
| n) Depth of base of discharge pipes from ground surface (m)13 | metres (m) | | |
| **PART 214** (to be completed for trade effluent discharges which have a high loading classification and for sewage effluent discharges >50pe, also note that for all discharges of <50pe where there is a sensitive receptor close by SEPA may also request some of this information – where this is the case please discuss this with SEPA. | | | |
| o) Groundwater Flow Direction e.g. NNW15 |  | | |
| p) Hydraulic gradient 16 |  | | |
| q) Permeability17 | metres/day | | |
| r) Background Groundwater Quality18 | Contaminant | Concentration | Units |
| 1. | Max:  Min:  Mean: |  |
| 2. | Max:  Min:  Mean: |  |
| 3. | Max:  Min:  Mean: |  |
| 4. | Max:  Min:  Mean: |  |
| 5. | Max:  Min:  Mean: |  |
| s) Ongoing monitoring19 |  | | |
| t) Has a quantitative risk assessment been carried out? (attach assessment)20 |  | | |

**MAP**

A scale map of the site should be provided and include the following information:

* Location and layout of the infiltration system
* The location of the trial pits, boreholes/peizometres & percolation test holes
* The location of any well, springs or boreholes (mark with ‘W’, ‘S’ or ‘B’ for **W**ell, **S**pring, or **B**orehole) within 500m of the discharge
* The location of surface water features within 200m of the discharge.
* The location of any field drains
* The boundary of the plot
* North point should be indicated by an arrow labelled ‘N’.
* A scale bar.

**TRIAL PIT DETAILS**

The Hole should be at least 1.5m deep below the bottom of the proposed depth of the discharge pipe.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Depth of Trial Hole (m):** | | **Date and time of excavation:** | | **Date and time of examination:** |
| **Depth from ground surface to bedrock (m):** | |  | | |
| **Depth from ground surface to water table (m):** | |  | | |
|  | **Subsoil description** | | **Colour\*** | **Preferential flow paths** |
| **0.1m** |  | |  |  |
| **0.2m** |  | |  |  |
| **0.3m** |  | |  |  |
| **0.4m** |  | |  |  |
| **0.5m** |  | |  |  |
| **0.6m** |  | |  |  |
| **0.7m** |  | |  |  |
| **0.8m** |  | |  |  |
| **0.9m** |  | |  |  |
| **1.0m** |  | |  |  |
| **1.1m** |  | |  |  |
| **1.2m** |  | |  |  |
| **1.3m** |  | |  |  |
| **1.4m** |  | |  |  |
| **1.5m** |  | |  |  |
| **1.6m** |  | |  |  |
| **1.7m** |  | |  |  |
| **1.8m** |  | |  |  |
| **1.9m** |  | |  |  |
| **2.0m** |  | |  |  |
| **2.1m** |  | |  |  |
| **2.2m** |  | |  |  |
| **2.3m** |  | |  |  |
| **2.4m** |  | |  |  |
| **2.5m** |  | |  |  |

**\*All signs of mottling should be recorded**

**X Additional Document submitted with application**

|  |  |  |
| --- | --- | --- |
| **X ADDITIONAL INFORMATION SUBMITTED** | | |
| **Please reference additional supporting documents submitted as part of this application** | **Document name:**  **Document reference:** |  |
| **Document name:**  **Document reference:** |  |
| **Document name:**  **Document reference:** |  |
| **Document name:**  **Document reference:** |  |

# ANNEX – Substances

Table 1 below details substances which must be highlighted within your application if they are contained within your discharge.

**Table 1 Substances**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Substance** |  |  | **Substance** |  |
| Alachlor | PS |  | Fluoranthene | PS |
| Aldrin | LIST I |  | Hexachlorobenzene | PHS, LIST I |
| Aluminium | SP |  | Hexachlorobutadiene | PHS, LIST I |
| Anthracene | PSR |  | Hexachlorocyclohexane (Lindane) | PHS, LIST I |
| Arsenic | SP, LIST II |  | Iron | SP, LIST II |
| Atrazine | PSR, LIST II |  | Isodrin | LIST I |
| Azinphos-methyl | LIST II |  | Isoproturon | PSR |
| Bentazone | LIST II |  | Lead and its compounds | PSR, LIST II |
| Benzene | PS, LIST II |  | Linuron | LIST II |
| Biphenyl | LIST II |  | Malathion | LIST II |
| Boron | LIST II |  | Manganese | SP |
| Brominated diphenylether (only | PHS |  | Mecoprop | LIST II |
| Cadmium | PHS, LIST I |  | Mercury and its compounds | PHS, LIST I |
| Carbon tetrachloride | LIST I |  | Mevinphos | LIST II |
| Chlorfenvinphos | PS |  | Naphthalene | PSR, LIST II |
| Chlorine | SP |  | Nickel and its compounds | PS, LIST II |
| Chloroalkanes, (C10-13) | PHS |  | Nonylphenols | PHS |
| Chloroform | LIST I |  | Octylphenols | PSR |
| Chloronitrotoluenes | LIST II |  | Omethoate | LIST II |
| 2-Chlorophenol | LIST II |  | PCSDS | LIST II |
| 4-Chloro-3-methylphenol | LIST II |  | pentabromodiphenylether (PBDE)) | PHS |
| Chlorpyrifos | PSR |  | Pentachlorobenzene | PHS |
| Chromium | SP, LIST II |  | Pentachlorophenol | PSR, LIST I |
| Copper | SP, LIST II |  | Perchloroethylene | LIST I |
| Cyanide | SP |  | Permethrin | SP, LIST II |
| Cyfluthrin | LIST II |  | Phenol | SP |
| 2,4 –D (ester) | LIST II |  | Poly Aromatic Hydrocarbons | PHS |
| 2,4-D (non-ester) | LIST II |  | pp-DDT | LIST I |
| DDT | LIST I |  | Simazine | PSR, LIST II |
| Demeton | LIST II |  | Sulcofuron | LIST II |
| Di(2-ethylhexyl)phthalate (DEHP) | PSR |  | Tetrachloroethane | SP |
| Diazinon | SP |  | Toluene | SP, LIST II |
| 1, 2 Dichloroethane | PS, LIST I |  | Triazophos | LIST II |
| Dichloromethane | PS |  | Tributyltin compounds | PHS, LIST II |
| 2,4-Dichlorophenol | LIST II |  | Trichlorobenzene | PSR, LIST I |
| Dichlorvos | LIST II |  | 1,1,1-Trichloroethane | LIST II |
| Dieldrin | LIST I |  | 1,1,2-Trichloroethane | LIST II |
| Dimethoate | LIST II |  | Trichloroethylene | LIST I |
| Diuron | PSR |  | Trichloromethane | PS |
| Endosulphan | PSR, LIST II |  | Trifluralin | PSR, LIST II |
| Endrin | LIST I |  | Triphenyltins | LIST II |
| Fenitrothion | LIST II |  | Vanadium | LIST II |
| Flucofuron | LIST II |  | Xylene | LIST II |

KEY: PHS – Annex X priority hazardous substance

PS – Annex X priority substance

PSR – Priority Substance Review

SP - Annex VIII substance covered by points 1 to 9 - termed as Specific Pollutant

List I - Dangerous Substances Directive List I substance, also listed in annex IX of WFD

List II - Dangerous Substances Directive List II substance (as agreed by UK, statutory EQS applies)

1. [↑](#footnote-ref-1)
2. [↑](#footnote-ref-2)