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## FOUL DRAINAGE

Ghyll Syke

Bell Busk

SKIPTON BD23 4DU.

### Existing situation :

Ghyll Syke is currently served by a septic tank set some 17 metres due north of the farmhouse.

It is proposed to de-commission the tank and to construct a new Klargester AFZ mini-sewage treatment plant with irrigation drainage on land across the road to the east of the barn; a system that will significantly improve water quality at the outfall from that existing.

An EA licence in these circumstances would not normally be necessary.

Foul drainage details are shown on the application drawing 3007.3B.

The KLARGESTER AFZ plant will supply the existing cottage and the barn conversion

Archit'd  
October 2022

# Foul Drainage Assessment Form (FDA)



Please note: You should only use this form for planning related queries. You cannot use it to apply for an Environmental Permit but you may submit a copy of the information you have provided for planning purposes in support of your Environmental Permit application. Further information on how to apply for an environmental permit and general binding rules applicable to small discharges of domestic sewage effluent is available on the gov.uk website.

## APPLICANT DETAILS

Name: SUTCLIFFE CONSTRUCTION

Address:

Email Address:

Telephone No:

We will use the information you provide on this form to establish whether non-mains drainage, either a new system or connection to an existing system, would be acceptable. It is important that you provide full and accurate information. Failure to do this will delay the processing of your application.

You must provide evidence that a connection to the public sewer is not feasible. NO SEWER AVAILABLE

Other than in very exceptional circumstances, we will not allow the use of non-mains drainage as part of your Planning or Building Regulation application unless you can prove that a connection to the public sewer is not feasible. We do not consider non-mains drainage systems to be environmentally acceptable in locations where it is feasible to connect to a public sewer. Please note that a lack of capacity in, or other operating problems with, the public sewer are not valid reasons to use a non-mains drainage system where it is otherwise feasible to connect to a public sewer.

Where connection to the public sewer is feasible, you may need to get the agreement of either the owners of any land through which the drainage will run or, if you intend to connect via an existing private drain, the owner of that private drain.

The National Planning Practice Guidance and Building Regulations Approved Document H give a hierarchy of drainage options that must be considered and discounted in the following order:

- 1 Connection to the public sewer
- 2 Package sewage treatment plant (which can be offered to the Sewerage Undertaker for adoption)
- 3 Septic Tank
- 4 If none of the above are feasible a cesspool

You must respond to all the following questions. If you wish to submit additional information please do so, marked clearly "Additional Information". **In some cases you will be required to provide further information in order to demonstrate that any non-mains foul drainage system proposed is acceptable.**

### Feasibility of mains foul sewer connection

|   | YES | NO |
|---|-----|----|
| Have you provided a written explanation of why it is not feasible to connect to the public foul sewer with this form?<br><u>None Available</u>  | ✓   |    |
| This must include a scaled map showing the nearest public foul sewer connection point - check with your local sewerage undertaker.  |     |    |
| Is the distance from your site to the closest connection point to the public foul sewer less than the number of properties to be built on the site multiplied by 30m? (see Guidance Note 2) |     | ✓  |



|  |  |  |
|--|--|--|
| Does your proposal form part of a phased development or planned development of a wider area?<br>If YES, please provide further details including references of any planning permissions already granted. |  |  |
|--|--|--|

### Non-mains connection

Please provide a plan with dimensions that clearly shows the location of the whole system in relation to the proposed development and the position of the key elements e.g. septic tank, drainage fields and points of discharge.

| 1. Existing system   | YES | NO |
|--|-----|----|
| Do you intend to use an existing non-mains foul drainage system?   |     | ✓  |
| If YES, does the system already have an Environmental Permit issued by the Environment Agency? (In the case of a cesspool write N/A) |     |    |
| If YES, please provide Environmental Permit reference number:  |     |    |

| 2. Drainage  | YES | NO |
|--|-----|----|
| Do you propose to use a package treatment plant? <i>LARGESTER AF2 max 12 person</i>  | ✓   |    |
| Do you propose to use a septic tank?   |     |    |
| Do you propose to use a cesspool? If YES go to Q4  |     |    |
| Have you considered having your system adopted by the sewerage undertaker? (see Guidance Note 7).  |     |    |
| Will all, or any part of, the discharge go to a drainage field or soakaway? (see Guidance Note 3) - this includes systems that combine a drainage field with a high level overflow to watercourse If YES go to Q3. |     |    |
| Do you intend to use a system that discharges solely to watercourse? (see Guidance Note 3) If YES go to Q9.  |     |    |

| 3. Water Abstraction                                    | YES | NO |
|---|-----|----|
| Do you receive your water from the public mains supply? | ✓   |    |
| If not, where do you get your water supply from?        |     |    |

| 4. Cesspools (For methods other than cesspools write N/A)  | YES | NO |
|--|-----|----|
| Have you provided written justification for the use of a cesspool in preference to more sustainable methods of foul drainage disposal? (see Guidance Note 4) | N/A |    |

| 5. Drainage field design (For cesspools write N/A)  | YES | NO |
|---|-----|----|
| Will the system discharge to a drainage field designed and constructed in accordance with British Standard BS6297:2007? | ✓   |    |
| If not, why not?  |     |    |
| Will the discharge from the system be located in a Source Protection Zone 1 (SPZ1)?                                     |     | ✓  |



| 6. Ground Conditions (For cesspools write N/A)   | YES | NO |
|--|-----|----|
| 6a. Have you submitted a copy of the percolation test results with this form (see Guidance Note 6)?<br>TO BE DONE WHEN BUILDER IS ON SITE                                  |     | ✓  |
| 6b. If NO please explain the justification for not undertaking or submitting these tests.  |     |    |
| 6c. Is any part of the system in land which is marshy, water logged or subject to flooding?  |     | ✓  |
| 6d. Will the soakaway be located on artificially raised, made-up ground or ground likely to be contaminated? If YES please provide details as additional information.      |     | ✓  |
| 6e. Have you submitted the results of a trial hole at the site to establish that the proposed drainage field will be above any standing groundwater (see Guidance Note 6)? |     | ✓  |

| 7. Drainage field design (For cesspools write N/A)   | YES | NO |
|--|-----|----|
| Is the application site plus any available area for a soakaway less than 0.025 hectares (250m <sup>2</sup> ) |     | ✓  |

| 8. Siting of drainage field/soakaway discharge from a septic tank or package treatment plant or other secondary treatment.<br>You may need to make local enquiries to get a full answer to these questions.               | YES | NO |
|---|-----|----|
| Will it be at least 10m from a watercourse, permeable drain or land drain?  | ✓   |    |
| Will it be at least 50m from any point of abstraction from the ground for a drinking water supply (e.g. well, borehole or spring)? This includes your own or a neighbour's supply.  | ✓   |    |
| Will the discharge be within a groundwater <u>Source Protection Zone 1</u> ? If yes, you will need to apply for an environmental permit   |     | ✓  |
| Are there any drainage fields/soakaways within 50m? This includes any foul drainage discharge system (other than the subject of this application) or surface water soakaway on either your own or a neighbour's property. |     | ✓  |
| Will it be at least 15m from any building?  | ✓   |    |
| Will there be any water supply pipes or underground services within the disposal system other than those required by the system? (For cesspools write N/A)  |     | ✓  |
| Will there be any access roads, driveways or paved areas within the disposal area? (For cesspools write N/A)  |     | ✓  |

| 9. Siting of treatment plant, septic tank or cesspool  | YES | NO |
|--|-----|----|
| Is it at least 7m from the habitable part of a building?   |     |    |
| Will there be vehicular access for emptying within 30m?  |     |    |
| Can the plant, tank or cesspool be maintained or emptied without the contents being taken through a dwelling or place of work? |     |    |

| 10. Expected Flow   | YES | NO |
|---|-----|----|
| 8 PERSON x 125 litre per person = 1000 litre/day                        |     |    |
| Please estimate the total flow in litres per day (see Guidance Note 5). |     |    |

| 11. General Binding Rules for Small Sewage Discharges   | YES | NO |
|---|-----|----|
| Does the system meet the requirements of the <u>General Binding Rules for small sewage discharges</u> ? |     |    |

| 12. Maintenance                         | YES | NO |
|---|-----|----|
| EXISTING ROAD ALONGSIDE PLANT TO WEST ✓ |     |    |



|  |                |
|--|----------------|
| How do you propose to maintain the system? | OWNER/OCCUPIER |
|--|----------------|

|   |            |         |
|---|------------|---------|
| <b>13. Declaration</b><br>How do you propose to maintain the system? <i>BUILDING OWNER SUPERVISION CHECKS + ANY MAINTENANCE</i> |            |         |
| Name  | Signature  | Date    |
| JR WHARTON  | [REDACTED] | 3-10-22 |

#### GUIDANCE NOTES:

1. This form is for use with the *National Planning Practice Guidance*, British Standard BS6297:2007 and *Building Regulations Approved Document H*. It is intended to help Local Planning Authorities establish basic information about your non-mains drainage system and decide whether you need to submit a more detailed site assessment. If a detailed site assessment is requested but not submitted, your planning application might be refused.
2. Where the distance from a site to the closest point of connection to the foul sewer is less than the number of properties that are proposed to be built on that site multiplied by 30m an Environmental Permit will be required and an applicant will need to demonstrate as part of any application for such a permit why connection to the public foul sewer is not feasible.  
  
 Number of domestic properties served by the sewage treatment system  x 30 metres = Answer  metres
3. In addition to Planning Permission and Building Regulation approval **you may also require an Environmental Permit from the Environment Agency (EA). Please note that the granting of Planning Permission or Building Regulation approval does not guarantee the granting of an Environmental Permit. Upon receipt of a correctly filled in application form the EA will carry out an assessment. It can take up to 4 months before the Agency is in a position to decide whether to grant a permit or not.**
4. In addition to Planning Permission and Building Regulation approval **you may also require an Environmental Permit from the Environment Agency (EA). Please note that the granting of Planning Permission or Building Regulation approval does not guarantee the granting of an Environmental Permit. Upon receipt of a correctly filled in application form the EA will carry out an assessment. It can take up to 4 months before the Agency is in a position to decide whether to grant a permit or not.**
5. Package treatment plants and septic tanks should be designed and sized according to the advice given in the current edition of *Flows and Loads*, published by British Water. Volumes for larger systems should be calculated based on expected flows arising from the development.
6. You should refer to *Building Regulations Approved Document H2* with regard to the general requirements for construction of non mains sewerage systems. **Sections 1.33 to 1.38** deal with the test requirements for trial holes and percolation tests and for convenience the text of these sections is repeated below:

**1.33** A trial hole should be dug to determine the position of the standing groundwater table. The trial hole should be a minimum of 1m<sup>2</sup> in area and 2m deep, or a minimum of 1.5m below the invert of the proposed drainage field pipework. The ground water table should not rise to within 1m of the invert level of the proposed effluent distribution pipes. If the test is carried out in summer, the likely winter groundwater levels should be considered. A percolation test should then be carried out to assess the further suitability of the proposed area.

**1.34** Percolation test method – A hole 300mm square should be excavated to a depth 300mm below the proposed invert level of the effluent distribution pipe. Where deep drains are necessary the hole should