

**WASTE WATER DISCHARGE  
CERTIFICATE OF AUTHORISATION  
FOR  
KNOCKRAHA Co.CORK.**

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**Section A**

SECTION A  
NON TECHNICAL SUMMARY  
**Knockraha Wastewater Discharge Certificate of  
Authorisation**

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# Attachment A.1      Non-Technical Summary

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## SECTION A: NON-TECHNICAL SUMMARY

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*Advice on completing this section is provided in the accompanying Guidance Note.*

A non-technical summary of the application is to be included here. The summary should identify all environmental impacts of significance associated with the discharge of waste water associated with the waste water works. This description should also indicate the hours during which the waste water works is supervised or manned and days per week of this supervision.

The following information must be included in the non-technical summary:

A description of:

- the waste water works and the activities carried out therein,
- the sources of emissions from the waste water works,
- the nature and quantities of foreseeable emissions from the waste water works into the receiving aqueous environment as well as identification of significant effects of the emissions on the environment,
- the proposed technology and other techniques for preventing or, where this is not possible, reducing emissions from the waste water works,
- further measures planned to comply with the general principle of the basic obligations of the operator, i.e., that no significant pollution is caused;
- measures planned to monitor emissions into the environment.

Supporting information should form **Attachment N<sup>o</sup> A.1**

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## **A1 Non-Technical Summary.**

### **A.1.0 Introduction.**

#### **Description of the Wastewater System in the Knockraha Agglomeration**

Knockraha Village is located in a hilly setting to the east of the Butlerstown River approximately 10 kilometers northeast of Cork City and 5 kilometers east of Glanmire/Riverstown.

According to the 2006 Census of population, the population of Knockraha is 230 persons.

The population contributing to the sewerage systems in Knockraha is in the region of 50 persons.

#### **A1.1 Waste Water Works**

The main sewerage system in the village of Knockraha is located in a housing estate, Chapelfield. This is a proprietary treatment system and percolation area was constructed in 2006. The treatment system was constructed to service the housing estate. The treatment system services 20 single unit detached houses.

There is a secondary treatment system in the village. A septic tank and soakpit which services 3 no. houses. The system was constructed in the 1960's to service 3 no. local authority houses. These houses are now in private ownership.

All other houses in the village are serviced by individual septic tank and proprietary treatment systems.

The agglomeration area for the knockraha sewers is shown on Drawing No. A1-1 and form attachment A1.

#### **A1.2 Primary Discharge Points**

The primary discharge point is located within the Chapelfield housing estate. The proprietary wastewater treatment system discharges to a percolation area.

The diameter of the outfall pipe to the percolation area is 100mm.

#### **A.1.3 Secondary Discharge Points.**

The secondary discharge point is located towards the centre of Knockraha village. A septic tank system servicing 3 no. houses discharges to a soakpit.

#### **A1.4 Volumes:**

#### **A1.5 Sources of emissions:**

Emissions from the Knockraha agglomeration arise from the following sources:

Domestic loading: Existing population

Non-domestic loading: No non- domestic loadings discharge to the treatment systems.

#### **A1.6 Domestic loadings/Emissions.**

The populations of Knockraha is 230 persons. There are 60 people contributing to the primary sewerage treatment system and 15 people contributing to the secondary sewerage treatment system.

#### **A1.7 Non Domestic loading/Emissions.**

There is no non-domestic loading discharging to the primary or secondary treatment systems/dischARGE points.

#### **A1.8 Infiltration.**

There is no volume of infiltration in to the primary sewer network/system. There is some infiltration into the secondary sewer network/system.

#### **A1.9 The Nature and Quantity of Foreseeable Emissions.**

A significant upgrade of the Knockraha sewer network is being reviewed. A new treatment system to service the entire Knockraha village is being examined.

#### **A1.10 Environmental Impacts**

There are no long term impacts from the discharge of treated effluent from the primary discharge point located at Chapelfield and the secondary discharge pipe located within Knockraha village.

#### **A1.11 Proposed Technology and Other Techniques for Preventing or Where this is Not Possible Reducing Emissions from the Waste Treatment Works.**

In order to improve the existing situation in Knockraha village concerning (a). The number of existing sewerage treatment systems in the village and (b). The number of Single unit sites and associated sewerage treatment systems discharging into site percolation areas. Cork County Council's Water Services Infrastructural Projects team (WSIP) is examining the merits of constructing a single sewerage treatment system to service the entire village of Knockraha.

#### **A1.12 Further Measures Planned to Comply with the General Principles of the Basic Obligations of the Operator i.e. That No Significant Pollution is Caused.**

Further to the review for a new treatment plant to service the entire village of Knockraha. Routine monitoring of the primary and secondary treatment plants and discharge points is presently being carried out Cobh/Glanmire Water Services Office.

#### **A1.13 Summary**

Knockraha Village is mainly serviced by individual domestic septic tanks and proprietary waste water treatment systems. There is two small waste treatment systems servicing small housing estates within the village (a). A proprietary treatment system servicing a small housing estate (Chapelfield) and (b). A Septic tank servicing a small group of houses located within the centre of the village. There is no storm overflows from the waste water works located in the village.

Cork County Council's Water Services Infrastructural Projects team (WSIP) is examining the infrastructure within the village with a view to constructing a single sewerage treatment system to service the entire village of Knockraha.

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