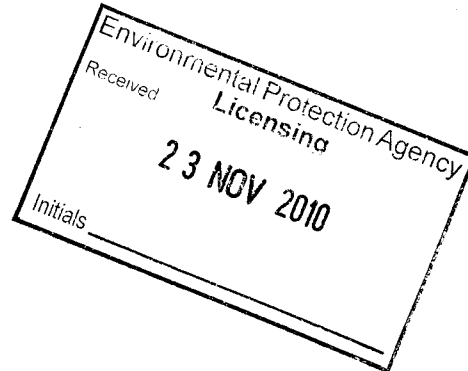


# Comhairle Contae Chorcaí Cork County Council

County Hall,  
Cork, Ireland.  
Tel: (021) 4276891 • Fax: (021) 4276321  
Web: [www.corkcoco.ie](http://www.corkcoco.ie)  
Halla an Chontae,  
Corcaigh, Éire.  
Fón: (021) 4276891 • Faics: (021) 4276321  
Suíomh Gréasáin: [www.corkcoco.ie](http://www.corkcoco.ie)



Environmental Protection Agency,  
P.O.Box 3000,  
Johnstown Castle Estate,  
County Wexford.



Our Ref.: BOL/MINB/1209

22 December 2009

Sub.: Waste Water Discharge License Application for the Agglomeration of Minane Bridge Village, County Cork.

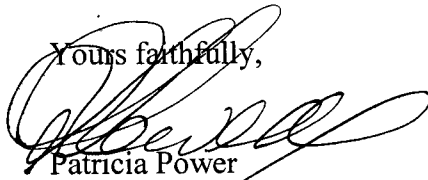
Dear Sir/Madam,

Please find enclosed the waste water discharge license application for the agglomeration of Minane Bridge Village in County Cork.

The following are the documents enclosed as per the application guide note.

- 1 No. signed hard copies of originals.
- 1 No. copy of the originals.
- 2 No. CD-ROM with documentation in electronic searchable PDF,
- 1 No. CD-ROM with GIS Data, Table D.2, Table E.3. and Table F.2

The content of the electronic files is true copy of the original hard copy.

Yours faithfully,  
  
Patricia Power  
Director of Services



**CORK COUNTY COUNCIL**  
**(Southern Division)**

**APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY**  
**FOR A WASTEWATER CERTIFICATE OF AUTHORISATION**  
under the Wastewater Discharge (Authorisation) Regulations 2007 (S.I. No.  
684 of 2007)



Location: The agglomeration of Minane Bridge, County Cork

Category of application: < 500 PE

Date Application Lodged: December 22<sup>nd</sup> 2009



# Waste Water Discharge Certificate of Authorisation Application Form

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Consent of copyright owner required for any other use

<b>EPA Ref. N<sup>o</sup>:</b> (Office use only)	<input type="text"/>
-----------------------------------------------------	----------------------

**Environmental Protection Agency**  
PO Box 3000, Johnstown Castle Estate, Co. Wexford  
Lo Call: 1890 335599 Telephone: 053-9160600 Fax: 053-9160699  
Web: [www.epa.ie](http://www.epa.ie) Email: [info@epa.ie](mailto:info@epa.ie)

**Tracking Amendments to Draft Application Form**

<b>Version No.</b>	<b>Date</b>	<b>Amendment since previous version</b>	<b>Reason</b>
V. 1.	12/06/2009	N/A	
V.2.	17/06/2009	<p>Delete reference to Design Build and Operate</p> <p>Delete the requirement to provide contact information for the associated waste water treatment plant</p> <p>Replace references to the Water Services investment Programme with the Small Schemes Programme</p> <p>Update references to new legislation</p> <p>Inclusion of the requirement to submit information on private WWTPs within the agglomeration.</p>	<p>To accurately reflect the information required for the small schemes programme</p> <p>To accurately reflect the information required and the scale of the waste water works</p> <p>To accurately reflect the information required for the small schemes programme</p> <p>To reflect changes in legislation</p> <p>To obtain an overview of all discharges within the agglomeration.</p>

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Environmental Protection Agency  
Application for a Waste Water Discharge Certificate of Authorisation  
Waste Water Discharge (Authorisation) Regulations, 2007.

**CONTENTS**

	<b>Page</b>
<b>TRACKING AMENDMENTS TO DRAFT APPLICATION FORM</b>	<b>3</b>
<b>ABOUT THIS APPLICATION FORM</b>	<b>6</b>
<b>PROCEDURES</b>	<b>7</b>
<b>SECTION A: NON-TECHNICAL SUMMARY</b>	<b>9</b>
<b>SECTION A: NON-TECHNICAL SUMMARY</b>	<b>10</b>
<b>SECTION B: GENERAL</b>	<b>12</b>
B.1 Agglomeration Details	12
Applicant's Details	12
Co-Applicant's Details	12
B.2 Location of Associated Waste Water Treatment Plant(s)	13
B.3 Location of Primary Discharge Point	13
B.4 Location of Secondary Discharge Point(s)	14
B.5 Location of Storm Water Overflow Point(s)	14
B.6 Planning Authority	15
B.7 Other Authorities	15
B. 8(i) Population Equivalent of Agglomeration	16
B. 8(ii) Pending Development	16
B. 8(iii) Fees	16
B.9 Capital Investment Programme	17
B.10 Significant Correspondence	17
B.11 Foreshore Act Licences.	18
<b>SECTION C: INFRASTRUCTURE &amp; OPERATION</b>	<b>19</b>
C.1 Operational Information Requirements	19
<b>SECTION D: DISCHARGES TO THE AQUATIC ENVIRONMENT</b>	<b>20</b>
D.1(i) Discharges to Surface Waters	20
D.1(ii) Discharges to Groundwater	20
D.1 (iii) Private Waste Water Treatment Plants	21
D.2 Tabular Data on Discharge Points	21



<b>SECTION E: MONITORING</b>	<b>22</b>
E.1 Waste Water Discharge Frequency and Quantities – Existing & Proposed	22
E.2. Monitoring and Sampling Points	22
E.3. Tabular data on Monitoring and Sampling Points	23
E.4 Sampling Data	24
<b>SECTION F: EXISTING ENVIRONMENT &amp; IMPACT OF THE DISCHARGE(S)</b>	<b>25</b>
F.1. Impact on Receiving Surface water or Groundwater	25
F.2 Tabular Data on Drinking Water Abstraction Point(s)	30
<b>SECTION G: PROGRAMMES OF IMPROVEMENTS</b>	<b>31</b>
G.1 Compliance with Council Directives	32
G.2 Compliance with Water Quality Standards for Phosphorus Regulations (S.I. No. 258 of 1998)	34
G.3 Impact Mitigation	34
G.4 Storm Water Overflows	35
<b>SECTION H: DECLARATION</b>	<b>36</b>

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## ABOUT THIS APPLICATION FORM

This form is for the purpose of making an application for a Waste Water Discharge Certificate of Authorisation under the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I. No. 684 of 2007) or for the review of an existing Waste Water Discharge Certificate of Authorisation.

The Application Form **must** be completed in accordance with the instructions and guidance provided in the *Waste Water Discharge Certificate of Authorisation Application Guidance Note*. The Guidance Note gives an overview of Waste Water Certificates of Authorisation, outlines the certification application process (including the number of copies required) and specifies the information to be submitted as part of the application. The Guidance Note and application form are available to download from the licensing page of the EPA's website at [www.epa.ie](http://www.epa.ie).

A valid application for a Waste Water Discharge Certificate of Authorisation must contain the information prescribed in the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I. No. 684 of 2007). Regulation 24 of the Regulations sets out the statutory requirements for information to accompany a Certificate of Authorisation application. The application form is designed in such a way as to set out these questions in a structured manner and not necessarily in the order presented in the Regulations. In order to ensure a legally valid application with respect to Regulation 24 requirements, please complete the Regulation 24 Checklist provided in the following web based tool: [http://78.137.160.73/epa\\_wwd\\_licensing/](http://78.137.160.73/epa_wwd_licensing/).

This Application Form does not purport to be and should not be considered a legal interpretation of the provisions and requirements of the Waste Water Discharge (Authorisation) Regulations, 2007. **While every effort has been made to ensure the accuracy of the material contained in the Application Form, the EPA assumes no responsibility and gives no guarantee, or warranty concerning the accuracy, completeness or up-to-date nature of the information provided herein and does not accept any liability whatsoever arising from any errors or omissions.**

Should there be any contradiction between the information requirements set out in the Application Form and any clarifying explanation contained in the accompanying Guidance Note, then the requirements in this Application Form shall take precedence.

## PROCEDURES

The procedure for making and processing of applications for waste water discharge Certificates of Authorisation, and for the processing of reviews of such Certificates, appears in the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I. No. 684 of 2007) and is summarised below. The application fees that shall accompany an application are listed in the Third Schedule to the Regulations.

An application for a Certificate of Authorisation must be submitted on the appropriate form (available from the Agency website – <http://www.epa.ie/whatwedo/licensing/wwda/>) with the correct fee, and should contain relevant supporting documentation as attachments. The application should be based on responses to the form and include supporting written text and the appropriate use of tables and drawings. Where point source emissions occur, a system of unique reference numbers should be used to denote each discharge point. These should be simple, logical, and traceable throughout the application.

The application form is divided into a number of sections of related information. The purpose of these divisions is to facilitate both the applicant and the Agency in the provision of the information and its assessment. **Please adhere to the format as set out in the application form and clearly number each section and associated attachment, if applicable, accordingly.** Attachments should be clearly numbered, titled and paginated and must contain the required information as set out in the application form. Additional attachments may be included to supply any further information supporting the application. Any references made should be supported by a bibliography.

**All questions should be answered. Where information is requested in the application form, which is not relevant to the particular application, the words "not applicable" should be clearly written on the form. The abbreviation "N/A" should not be used.**

Additional information may need to be submitted beyond that which is explicitly requested on this form. Any references made should be supported by a bibliography. The Agency may request further information (under notices provided for in the Regulations) if it considers that its provision is material to the assessment of the application. Advice should be sought from the Agency where there is doubt about the type of information required or the level of detail.

Information supplied in this application, including supporting documentation will be put on public display and be open to inspection by any person.

Applicants should be aware that a contravention of the conditions of a waste water discharge Certificate of Authorisation is an offence under the Waste Water Discharge (Authorisation) Regulations, 2007.

**The provision of information in an application for a waste water discharge Certificate of Authorisation which is false or misleading is an offence under Regulation 35 of the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I. No. 684 of 2007).**

Note: Drawings. The following guidelines are included to assist applicants:

- All drawings submitted should be titled and dated.
- All drawings should have a unique reference number and should be signed by a clearly identifiable person.
- All drawings should indicate a scale and the direction of north.
- All drawings should, generally, be to a scale of between 1:20 to 1:500, depending upon the degree of detail needed to be shown and the size of the facility. Drawings delineating the boundary can be to a smaller scale of between 1:1000 to 1:10560, but must clearly and accurately present the required level of detail. Drawings showing the waste water treatment plant location, if such a plant exists, can be to a scale of between 1:50 000 to 1:126 720. All drawings should, however, be A3 or less and of an appropriate scale such that they are clearly legible. Provide legends on all drawings and maps as appropriate.
- In exceptional circumstances, where A3 is considered inadequate, a larger size may be requested by the Agency.

**It should be noted that it will not be possible to process or determine the application until the required documents have been provided in sufficient detail and to a satisfactory standard.**

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**SECTION A: NON-TECHNICAL SUMMARY**

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, where applicable, 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° A.1**

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## **SECTION A: NON-TECHNICAL SUMMARY**

The Village of Minane Bridge is situated approximately 20km south of Cork City and 7km south of Carrigaline, on the main route to the coastal resorts of Robert's Cove and Rocky Bay. This settlement is a small centre for the rural hinterland.

### **The Waste Water Works and the Activities Carried Out Therein**

This application seeks certification for the discharge at 'Spruce Grove', a Council Estate consisting of 8 houses. These houses are served by a septic tank providing primary settlement only, which according to the National Urban Waste Water Study (NUWSS) reduces the BOD load by approximately 30% and the Suspended Solids by approximately 50%. The septic tank is de-sludged approximately annually and the sludge is transported off site for treatment and disposal.

Treated effluent is discharged directly from the septic tank to a percolation area. This percolation area is located approximately 75m from the Minane River.

Within this agglomeration of Minane Bridge is the private Waste Water Treatment Plant serving the private development of 'River Valley'. This privately operated plant is licensed by Cork County Council and the details regarding the licensing of this facility form attachment D.1iii.

This application, although includes 'River Valley' as it is a privately operated Waste Water Treatment plant within the area, is primarily concerned with the public discharge from the Council Estate of 'Spruce Grove'. All information regarding 'River Valley' will be contained in Attachment D.1iii only.

### **The Sources of Emissions from the Waste Water Works**

The loading on the waste water works for the Minane Bridge agglomeration arises from Domestic Loading only, from the Council Housing Estate of Spruce Grove. This estate consists of 8 houses.

### **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 source of emissions for this agglomeration is from the Council Estate of 'Spruce Grove' which consists of 8 houses in total. The population served by this septic tank is approximately 28 PE. Domestic effluent is discharged to the septic tank. Primary settlement occurs in the septic tank which is de-sludged annually. The sludge is transported off site for treatment and disposal.

The percolation area serving this septic tank is located approximately 75m from the Minane River.

### **The Proposed Technology and Other Techniques for Preventing or, where this is not possible, Reducing Emissions from the Waste Water Works**

No works proposed for the treatment plant at Minane Bridge at present.

**Further Measures Planned to Comply with the General Principle of the Basic Obligations of the Operator, i.e., that no Significant Pollution is caused**

No further measures planned at present.

**Measures Planned to Monitor Emissions into the Environment.**

The Cork County Council Environmental Laboratory does not carry out sampling of the influent and effluent at 'Spruce Grove', Minane Bridge, nor is sampling carried out on the Minane River. However, for the purposes of this Waste Water Discharge Certificate sampling was carried out on one occasion.

List of Attachments include the following:

- Location Map Scale 1:50,000 Attachment A1 Map 1
- Minane Bridge Location Map Attachment A1 Map 2

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**SECTION B: GENERAL**

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

**B.1 Agglomeration Details**

<b>Name of Agglomeration:</b>	Minane Bridge
-------------------------------	---------------

**Applicant's Details**

**Name and Address for Correspondence**

Only application documentation submitted by the applicant and by the nominated person will be deemed to have come from the applicant. Provide a drawing detailing the agglomeration to which the Certificate of Authorisation application relates. It should have the boundary of the agglomeration to which the Certificate of Authorisation application relates clearly marked in red ink.

<b>Name*:</b>	Cork County Council
<b>Address:</b>	Southern Division
	County Hall
	Carrigrohane Road
	Co. Cork
<b>Tel:</b>	021 427 6891
<b>Fax:</b>	021 427 6321
<b>e-mail:</b>	<a href="mailto:Patricia.power@corkcoco.ie">Patricia.power@corkcoco.ie</a>

\*This should be the name of the Water Services Authority in whose ownership or control the waste water works is vested.  
 \*Where an application is being submitted on behalf of more than one Water Services Authority the details provided in Section B.1 shall be that of the lead Water Services Authority.

<b>Name*:</b>	Patricia Power
<b>Address:</b>	Area Operations South
	County Hall
	Carrigrohane Road
	Cork
<b>Tel:</b>	021 4285 285
<b>Fax:</b>	021 4276 321
<b>e-mail:</b>	<a href="mailto:Patricia.power@corkcoco.ie">Patricia.power@corkcoco.ie</a>

\*This should be the name of person nominated by the Water Services Authority for the purposes of the application.

**Co-Applicant's Details**

<b>Name*:</b>	Not Applicable
<b>Address:</b>	Not Applicable
<b>Tel:</b>	Not Applicable
<b>Fax:</b>	Not Applicable
<b>e-mail:</b>	Not Applicable

\*This should be the name of a Water Services Authority, other than the lead authority, where multiple authorities are the subject of a waste water discharge Certificate of Authorisation application.

**Attachment B.1** should contain appropriately scaled drawings / maps ( $\leq A3$ ) of the agglomeration served by the waste water works showing the boundary clearly marked in red ink. These drawings / maps should also be provided as geo-referenced digital drawing files (e.g., ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. These drawings should be provided to the Agency on a separate CD-Rom containing sections B.2, B.3, B.4, B.5, C.1, D.2, E.3 and F.2.

Attachment included	Yes	No
	√	

### B.2 Location of Associated Waste Water Treatment Plant(s)

Give the location of the waste water treatment plant associated with the waste water works, if such a plant or plants exists.

<b>Name*:</b>	NOT APPLICABLE
<b>Address:</b>	NOT APPLICABLE
	see D.1 (iii) for Private Waste Water Treatment Plants Details
<b>Grid ref (6E, 6N)</b>	NOT APPLICABLE
<b>Level of Treatment</b>	NOT APPLICABLE

\*This should be the name of the person responsible for the supervision of the waste water treatment plant.

**Attachment B.2** should contain appropriately scaled drawings / maps ( $\leq A3$ ) of the site boundary and overall site plan including labelled discharge, monitoring and sampling points. These drawings / maps should also be provided as geo-referenced digital drawing files (e.g., ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. These drawings should be provided to the Agency on a separate CD-Rom containing sections B.1, B.3, B.4, B.5, C.1, D.2, E.3 and F.2.

Attachment included	Yes	No
	√	

### B.3 Location of Primary Discharge Point

Give the location of the primary discharge point, as defined in the Waste Water Discharge (Authorisation) Regulation, associated with the waste water works.

<b>Discharge to</b>	Groundwater
<b>Type of Discharge</b>	Percolation area
<b>Unique Point Code</b>	SW01MINB
<b>Location</b>	Percolation Area, Spruce Grove, Laharran, Minane Bridge
<b>Grid ref (6E, 6N)</b>	174490, 056690

**Attachment B.3** should contain appropriately scaled drawings / maps ( $\leq A3$ ) of the discharge point, including labelled monitoring and sampling points associated with the discharge point. These drawings / maps should also be provided as geo-referenced digital drawing files (e.g. ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. This data should be provided to the Agency on a separate CD-Rom containing the drawings and tabular data requested in sections B.1, B.2, B.4, B.5, C.1, D.2, E.3 and F.2.

Attachment included	Yes	No
	√	

#### B.4 Location of Secondary Discharge Point(s)

Give the location of **all** secondary discharge point(s)\* associated with the waste water works. Please refer to Guidance Note for information on Secondary discharge points.

<b>Discharge to</b>	Not Applicable
<b>Type of Discharge</b>	Not Applicable
<b>Unique Point Code</b>	Not Applicable
<b>Location</b>	Not Applicable
<b>Grid ref (6E, 6N)</b>	Not Applicable

\*Where a septic tank is in existence simultaneous to a package plant within an agglomeration, discharges from the septic tank shall be considered as a secondary discharge.

**Attachment B.4** should contain appropriately scaled drawings / maps ( $\leq A3$ ) of the discharge point(s), including labelled monitoring and sampling points associated with the discharge point(s). These drawings / maps should also be provided as geo-referenced digital drawing files (e.g. ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. This data should be provided to the Agency on a separate CD-Rom containing sections B.1, B.2, B.3, B.5, C.1, D.2, E.3 and F.2.

Attachment included	Yes	No
		√

#### B.5 Location of Storm Water Overflow Point(s)

Give the location of **all** storm water overflow point(s) associated with the waste water works.

<b>Type of Discharge</b>	Not Applicable
<b>Unique Point Code</b>	Not Applicable
<b>Location</b>	Not Applicable
<b>Grid ref (6E, 6N)</b>	Not Applicable

**Attachment B.5** should contain appropriately scaled drawings / maps ( $\leq A3$ ) of storm water overflow point(s) associated with the waste water works, including labelled monitoring and sampling points associated with the discharge point(s). These drawings / maps should also be provided as geo-referenced digital drawing files (e.g. ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. This data should be provided to the Agency on a separate CD-Rom containing sections B.1, B.2, B.3, B.4, C.1, D.2, E.3 and F.2.

Attachment included	Yes	No

### B.6 Planning Authority

Give the name of the planning authority, or authorities, in whose functional area the discharge or discharges take place or are proposed to take place.

<b>Name:</b>	Cork County Council
<b>Address:</b>	Planning Department
	County Hall
	Carrigrohane Road
	Cork
<b>Tel:</b>	021 4276891
<b>Fax:</b>	021 4867007
<b>e-mail:</b>	planninginfo@corkcoco.ie

Planning Permission relating to the waste water works which is the subject of this application:- (tick as appropriate)

<b>has been obtained</b>		<b>is being processed</b>	
<b>is not yet applied for</b>		<b>is not required</b>	√

<b>Local Authority Planning File Reference N°:</b>	NOT APPLICABLE
----------------------------------------------------	----------------

**Attachment B.6** should contain **the most recent** planning permission, including a copy of **all** conditions, and where an EIS was required, copies of any such EIS and any certification associated with the EIS, should also be enclosed. Where planning permission is not required for the development, provide reasons, relevant correspondence, etc.

Attachment included	Yes	No

### B.7 Other Authorities

B.7 (i) Shannon Free Airport Development Company (SFADCo.) area

The applicant should tick the appropriate box below to identify whether the discharge or discharges are located within the Shannon Free Airport Development Company (SFADCo.) area.

**Attachment B.7(i)** should contain details of any or all discharges located within the SFADCo. area.

<b>Within the SFADCo Area</b>	<b>Yes</b>	<b>No</b>
		✓

B.7 (ii) Health Services Executive Region

The applicant should indicate the **Health Services Executive Region** where the discharge or discharges are or will be located.

<b>Name:</b>	Health Service Executive South
<b>Address:</b>	Áras Sláinte
	Wilton Road
	Cork
<b>Tel:</b>	021 4545011
<b>Fax:</b>	021 4927228
<b>e-mail:</b>	Not Available

### B. 8(i) Population Equivalent of Agglomeration

**TABLE B.8.1 POPULATION EQUIVALENT OF AGGLOMERATION**

The population equivalent (p.e.) of the agglomeration to be, or being, served by the waste water works should be provided and the period in which the population equivalent data was compiled should be indicated.

<b>Population Equivalent</b>	<b>28</b>
<b>Data Compiled (Year)</b>	<b>2009</b>
<b>Method</b>	<b>Desk Study</b>

### B.8 (ii) Pending Development

Where planning permission has been granted for development(s), but development has not been commenced or completed to date, within the boundary of the agglomeration and this development is being, or is to be, served by the waste water works provide the following information;

- information on the calculated population equivalent (p.e.) to be contributed to the waste water works as a result of those planning permissions granted,
- the percentage of the projected p.e. to be contributed by the non-domestic activities, and
- the ability of the waste water works to accommodate this extra hydraulic and organic loading without posing an environmental risk to the receiving waters.

THERE IS NO PENDING DEVELOPMENT PRESENTLY IN THE AREA.

### B.8 (iii) FEES

State the relevant Class of waste water discharge as per Regulation 5, and the appropriate fee as per Columns 2 or 3 of the Third Schedule of the Waste Water Discharges (Authorisation) Regulations 2007, S.I. No. 684 of 2007.

Class of waste water discharge	Fee (in €)
	€3,000

Appropriate Fee Included	Yes	No
		√*

\*please see copy of attached letter sent by registered post to Mr F. Clinton ,Programme Manager , Licencing Unit EPA on December 18<sup>th</sup> 2009

### B.9 Capital Investment Programme

State whether a programme of works has been prioritised for the development of infrastructure to appropriately collect, convey, treat and discharge waste water from the relevant agglomeration. If a programme of works has been prioritised provide details on funding (local or national small schemes programme) allocated to the capital project. Provide details on the extent and type of work to be undertaken and the likely timeframes for this work to be completed.

**NOT APPLICABLE**

**Attachment B.9** should contain the most recent development programme, including a copy of any approved funding for the project and a timeframe for the completion of the necessary works to take place.

Attachment included	Yes	No
		√

### B.10 Significant Correspondence

Provide a summary of any correspondence resulting from a Section 63 notice issued by the Agency in relation to the waste water works under the Environmental Protection Agency Acts, 1992 and 2003, as amended by Section 13 of Protection of the Environment Act, 2003.

**NOT APPLICABLE**

**Attachment B.10** should contain a summary of any relevant correspondence issued in relation to a Section 63 notice.

Attachment included	Yes	No
		√

### B.11 Foreshore Act Licences.

Provide a copy of the most recent Foreshore Act licence issued in relation to discharges from the waste water works issued under the Foreshore Act 1933.

**NOT APPLICABLE**

**Attachment B.11** should contain the most recent licence issued under the Foreshore Act 1933, including a copy of **all** conditions attached to the licence and any monitoring returns for the previous 12-month period, if applicable.

Attachment included	Yes	No
		√

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**SECTION C: INFRASTRUCTURE & OPERATION**

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

**C.1 Operational Information Requirements**

Provide a description of the plant, process and design capacity for the areas of the waste water works where discharges occur, to include a copy of such plans, drawings or maps (site plans and location maps, process flow diagrams) and such other particulars, reports and supporting documentation as are necessary to describe all aspects of the area of the waste water works discharging to the aquatic environment. Maps and drawings must be no larger than A3 size.

**C.1 Waste Water Treatment Plant**

The Waste Water Treatment Plant in Minane Bridge serves the Council Estate of Spruce Grove. Spruce Grove is located to the east of Minane Bridge Village. Spruce Grove consists of 8 houses and has an approximate P.E. of 28. The treatment plant consists of a septic tank and percolation area located to the rear of the housing estate. The percolation area is located approximately 75m from the Minane River.

The influent flows by gravity to the Septic Tank. The septic tank provides primary settlement only, which according to the National Urban Waste Water Study (NUWSS) reduces the BOD load by approximately 30% and the Suspended Solids by approximately 50%. The septic tank is de-sludged approximately annually and the sludge is transported off site for treatment and disposal. There is no secondary treatment prior to discharge to the percolation area.

The design dry weather flow (DWF) for the plant is 6.3m<sup>3</sup>/day which is based on a population equivalent of 28 contributing 225l/head/day. This equates to an average flow of 0.26m<sup>3</sup>/hr.

C.1.1 Storm Water Overflows

**NOT APPLICABLE**

C.1.2 Pumping Stations

**NOT APPLICABLE**

**Attachment C.1** should contain supporting documentation with regard to the plant and process capacity, systems, storm water overflows, emergency overflows, etc., including flow diagrams of each with any relevant additional information. These drawings / maps should also be provided as geo-referenced digital drawing files (e.g. ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. This data should be provided to the Agency on a separate CD-Rom containing sections B.1, B.2, B.3, B.4, B.5, D.2, E.3 and F.2.

Attachment included	Yes	No
	√	



**SECTION D: DISCHARGES TO THE AQUATIC ENVIRONMENT**

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

**Give particulars of the source, location, nature, composition, quantity, level and rate of discharges arising from the agglomeration and, where relevant, the period or periods during which such discharges are made or are to be made.**

**Details of all discharges of waste water from the agglomeration should be submitted via the following web based link: [http://78.137.160.73/epa\\_wwd\\_licensing/](http://78.137.160.73/epa_wwd_licensing/). The applicant should address in particular all discharge points where the substances outlined in Tables 'Emissions to Surface/Groundwaters and 'Dangerous Substances Emissions' are emitted**

**Where it is considered that any of the substances listed in Annex X of the Water Framework Directive (2000/60/EC) or any of the Relevant Pollutants listed in Annex VIII of the Water Framework Directive (2000/60/EC) are being discharged from the waste water works or are seen to be present in the receiving water environment downstream of a discharge from the works (as a result of any monitoring programme, e.g., under the Water Framework Directive Programme of Measures) the applicant shall screen the discharge for the relevant substance.**

**D.1(i) Discharges to Surface Waters**

Details of all discharges of waste water from the agglomeration should be supplied via the following web based link: [http://78.137.160.73/epa\\_wwd\\_licensing/](http://78.137.160.73/epa_wwd_licensing/). Tables 'Discharge Point Details', 'Emissions to Surface/Groundwaters and 'Dangerous Substances Emissions', should be completed for the primary discharge point from the agglomeration and for **each** secondary discharge point, where relevant. Table 'Discharge Point Details' should be completed for **each** storm water overflow. Individual Tables must be completed for each discharge point.

Where monitoring information is available for the influent to the waste water treatment plant this data should also be provided in response to Section D.1(i).

Supporting information should form **Attachment D.1(i)**

<b>Attachment included</b>	<b>Yes</b>	<b>No</b>
		√

**D.1(ii) Discharges to Groundwater**

Details of all discharges of waste water from the agglomeration should be supplied via the following web based link: [http://78.137.160.73/epa\\_wwd\\_licensing/](http://78.137.160.73/epa_wwd_licensing/). Tables 'Discharge Point Details', 'Emissions to Surface/Groundwaters and 'Dangerous Substances Emissions', should be completed for the primary discharge point from the agglomeration and for **each** secondary discharge point, where relevant. Table 'Discharge Point Details' should be completed for **each** storm water overflow. Individual Tables must be completed for each discharge point.

Where monitoring information is available for the influent to the waste water treatment plant this data should also be provided in response to Section D.1(ii).

Supporting information should form **Attachment D.1(ii)**

Information Not Available

<b>Attachment included</b>	<b>Yes</b>	<b>No</b>
		✓

**D.1 (iii) Private Waste Water Treatment Plants**

Provide information on all independently owned/operated private waste water treatment plants operating within the agglomeration. Submit a copy of the Section 4 discharge licence issued under the Water Pollution Acts 1977 to 1990, as amended for each discharge.

<b>Attachment included</b>	<b>Yes</b>	<b>No</b>
	✓	

**D.2 Tabular Data on Discharge Points**

Applicants should submit the following information for each discharge point:

**Table D.2:**

PT_CD	PT_TYPE	LA_NAME	RWB_TYPE	RWB_NAME	DESIGNATION	EASTING	NORTHING
SW01MINV	Primary	Cork Co Co	Groundwater	Minane River	Moderatel	174490	056690

An individual record (i.e. row) is required for each discharge point. Acceptable file formats include Excel, Access or other upon agreement with the Agency. A standard Excel template can be downloaded from the EPA website at [www.epa.ie](http://www.epa.ie). This data should be submitted to the Agency on a separate CD-Rom containing sections B.1, B.2, B.3, B.4, B.5, C.1, E.3 and F.2.

## SECTION E: MONITORING

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

### **E.1 Waste Water Discharge Frequency and Quantities – Existing & Proposed**

Provide an estimation of the quantity of waste water likely to be emitted in relation to all primary and secondary discharge points applied for. This information should be included in Table 'Discharge Point Details' via the following web based link: [http://78.137.160.73/epa\\_wwd\\_licensing/](http://78.137.160.73/epa_wwd_licensing/).

Provide an estimation of the quantity of waste water likely to be emitted in relation to all storm water overflows within the agglomeration applied for. This information should be included in Table 'Discharge Point Details' via the following web based link: [http://78.137.160.73/epa\\_wwd\\_licensing/](http://78.137.160.73/epa_wwd_licensing/).

Indicate if composite sampling or continuous flow monitoring is in place on the primary or any other discharge points. Detail any plans and timescales for the provision of composite sampling and continuous flow monitoring.

There is no sampling or monitoring programme in place at Spruce Grove, Minane Bridge.

### **E.2. Monitoring and Sampling Points**

Programmes for environmental monitoring should be submitted as part of the application. These programmes should be provided as Attachment E.2.

Reference should be made to, provision of sampling points and safe means of access, sampling methods, analytical and quality control procedures, including equipment calibration, equipment maintenance and data recording/reporting procedures to be carried out in order to ensure accurate and reliable monitoring.

In determining the sampling programme to be carried out, the variability of the discharge and its effect on the receiving environment should be considered.

EPA 'Interim Report on Biological Survey of River Quality' indicated that the EPA have monitoring points on the Minane River. Minane River (river code 20/M/01) has a quality status of 'Moderately Polluted'. This status applies to a point upstream of Minane Bridge in the neighbouring village of Ballyfeard, and at the monitoring point of Minane Bridge, which is upstream of the waste water discharge point. There is no data available downstream of the discharge to suggest any negative impacts of the Spruce Grove discharge. The receiving waters at Ringabella Bay are not deemed sensitive.

The Cork County Council Environmental Laboratory does not carry out sampling of the influent and effluent at 'Spruce Grove', Minane Bridge, nor is sampling carried out on the Minane River. However, for the purposes of this Waste Water Discharge Certificate sampling was carried out on one occasion.

There is no monitoring programme envisaged for the area at present. The Cork County Council Environmental Laboratory does not carry out sampling of the influent and effluent at Minane Bridge WWTP, nor is sampling carried out on the Minane River. However, for the purposes of this Waste Water Discharge Licence sampling was carried out on one occasion.

### General Laboratory Information

The Waste Water Laboratory of Cork County Council is accredited for a number of analytical tests under the Irish National Accreditation Board (INAB) under the ISO 17025 international standard. The details of the Accreditation can be found in Attachment E.2. The Waste Water Laboratory of Cork County Council is currently accredited for the following parameters under the ISO 17025 system:

- pH
- Biochemical Oxygen Demand
- Chemical Oxygen Demand
- Suspended Solids
- Ammonia
- Ortho Phosphates
- Total Phosphates
- Chloride
- Sulphate

The laboratory perform a number of analytical tests e.g. fats, oil , grease and metals using an ICP-OES system and while the Waste Water Laboratory of Cork County Council is not currently accredited for extra tests the same analytical procedures and protocol are adhered to by the laboratory as would be required if the tests were accredited. The laboratory also participates in proficiency testing schemes which measure the accuracy of the results and performance of the laboratory in both the EPA scheme and the WRC Aquacheck scheme from the UK. The performance of the laboratory in these schemes is excellent and the non-accredited tests are within the performance criteria for the schemes as evaluated by the scheme coordinators.

Details of any accreditation or certification of analysis should be included. **Attachment E.2** should contain any supporting information.

Attachment included	Yes	No
	√	

### E.3. Tabular data on Monitoring and Sampling Points

Applicants should submit the following information for each monitoring and sampling point:

PT_CD	PT_TYPE	MON_TYPE	EASTING	NORTHING	VERIFIED
SW01MINV	Primary	S	174490	056690	Y
SW01MINVd		S	175075	056872	Y

An individual record (i.e., row) is required for each monitoring and sampling point. Acceptable file formats include Excel, Access or other upon agreement with the Agency. A standard Excel template can be downloaded from the EPA website at [www.epa.ie](http://www.epa.ie). This data should be submitted to the Agency on a separate CD-Rom containing sections B.1, B.2, B.3, B.4, B.5, C.1, D.2 and F.2.

**E.4 Sampling Data**

Regulation 24(i) of the Waste Water Discharge (Authorisation) Regulations 2007 requires all applicants in the case of an existing discharge to specify the sampling data pertaining to the discharge based on the samples taken in the 12 months preceding the making of the application.

Regulation 24(m) requires applicants to give details of compliance with any applicable monitoring requirements and treatment standards.

No Information Available.

**Attachment E.4** should contain any supporting information.

Attachment included	Yes	No
	✓	

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## **SECTION F: EXISTING ENVIRONMENT & IMPACT OF THE DISCHARGE(S)**

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

Clear and concise information is required to enable the Agency to assess the existing receiving environment. This section requires the provision of information on the ambient environmental conditions within the receiving water(s) upstream and downstream of any discharge(s) and/or the ambient environmental conditions of the groundwater upgradient and downgradient of any discharges.

Where development is proposed to be carried out, being development which is of a class for the time being specified under Article 24 (First Schedule) of the Environmental Impact Assessment Regulations, the information on the state of the existing environment should be addressed in the EIS. **In such cases, it will suffice for the purposes of this section to provide adequate cross-references to the relevant sections in the EIS.**

### **F.1. Impact on Receiving Surface water or Groundwater**

- Details of monitoring of the receiving surface water should be supplied via the following web based link: [http://78.137.160.73/epa\\_wwd\\_licensing/](http://78.137.160.73/epa_wwd_licensing/). Tables 'Monitoring Details', 'Monitoring Test Details', 'Dangerous Substances Monitoring Details' and 'Dangerous Substances Monitoring Test Details' should be completed for the primary discharge point. Surface water monitoring locations upstream and downstream of the discharge point shall be screened for those substances listed in Tables 'Monitoring Details', 'Monitoring Test Details', 'Dangerous Substances Monitoring Details' and 'Dangerous Substances Monitoring Test Details'. Monitoring of surface water shall be carried out at not less than two points, one upstream from the discharge location and one downstream.
- Details of monitoring of the receiving ground water should be supplied via the following web based link: [http://78.137.160.73/epa\\_wwd\\_licensing/](http://78.137.160.73/epa_wwd_licensing/). Tables 'Monitoring Details', 'Monitoring Test Details', 'Dangerous Substances Monitoring Details' and 'Dangerous Substances Monitoring Test Details' should be completed for the primary discharge point. Ground water monitoring locations upgradient and down gradient of the discharge point shall be screened for those substances listed in Tables 'Monitoring Details', 'Monitoring Test Details', 'Dangerous Substances Monitoring Details' and 'Dangerous Substances Monitoring Test Details'. Monitoring of ground water shall be carried out at not less than two points, one upgradient from the discharge location and one downgradient.
- For discharges from secondary discharge points Tables 'Monitoring Details', 'Monitoring Test Details', 'Dangerous Substances Monitoring Details' and 'Dangerous Substances Monitoring Test Details' should be completed.
- Describe the existing environment in terms of water quality with particular reference to environmental quality standards or other legislative standards. Submit a copy of the most recent water quality management plan or catchment management plan in place for the receiving water body. Give details of any designation under any Council Directive or Regulations that apply in relation to the receiving surface or groundwater.

- Provide a statement as to whether or not emissions of main polluting substances (as defined in the *Dangerous Substances Regulations S.I. No. 12 of 2001*) to water are likely to impair the environment.
- In circumstances where drinking water abstraction points exist downstream/down gradient of any discharge describe measures to be undertaken to ensure that discharges from the waste water works will not have a significant effect on faecal coliform, salmonella and protozoan pathogen numbers, e.g., Cryptosporidium and Giardia, in the receiving water environment.
- Indicate whether or not emissions from the agglomeration or any plant, methods, processes, operating procedures or other factors which affect such emissions are likely to have a significant effect on –
  - (a) a site (until the adoption, in respect of the site, of a decision by the European Commission under Article 21 of Council Directive 92/43/EEC for the purposes of the third paragraph of Article 4(2) of that Directive) –
    - (i) notified for the purposes of Regulation 4 of the Natural Habitats Regulations, subject to any amendments made to it by virtue of Regulation 5 of those Regulations,
    - (ii) details of which have been transmitted to the Commission in accordance with Regulation 5(4) of the Natural Habitats Regulations, or
    - (iii) added by virtue of Regulation 6 of the Natural Habitats Regulations to the list transmitted to the Commission in accordance with Regulation 5(4) of those Regulations,
  - (b) a site adopted by the European Commission as a site of Community importance for the purposes of Article 4(2) of Council Directive 92/43/EEC<sup>1</sup> in accordance with the procedures laid down in Article 21 of that Directive,
  - (c) a special area of conservation within the meaning of the Natural Habitats Regulations, or
  - (d) an area classified pursuant to Article 4(1) or 4(2) of Council Directive 79/409/EEC<sup>2</sup>;

<sup>1</sup>Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora (OJ No. L 206, 22.07.1992)

<sup>2</sup>Council Directive 79/409/EEC of 2 April 1979 on the conservation of wild birds (OJ No. L 103, 25.4.1979)

**Describe the existing environment in terms of water quality with particular reference to environmental quality standards or other legislative standards. Submit a copy of the most recent water quality management plan or catchment management plan in place for the receiving water body. Give details of any designation under any Council Directive or regulations that apply in relation to the receiving water.**

Minane Bridge Septic Tank discharges to a percolation area 75m from the Minane River. The Minane River runs in an easterly direction for approximately 5km before reaching coastal waters. Specific localised EPA flow data is not available in the vicinity of the existing discharge point

### **Water Quality Standards**

The Water Framework Directive (WFD) aims to establish an integrated approach to water protection, improvement and sustainable use. In order to achieve the requirements of the WFD, Ireland has been divided into a number of River Basin Districts or management units. The South Western River Basin District (SWRBD) comprises substantially the counties of Cork and Kerry, all of Cork City, and also parts of counties Limerick, South Tipperary and Waterford.

The overall objectives of the SWRBD project include the following:

- Strengthen compliance with EU Directives and national legislation
- Collect and analyse information to determine water quality and identify possible threats to water status
- Prevent further deterioration and protect/enhance water quality
- Develop a programme of measures to address all significant pressures and sources of impact on aquatic ecosystems and groundwater
- Encourage and facilitate public participation including the maintenance of a project website
- Promote sustainable water use

In order to achieve these objectives the following project tasks have been identified:

- Identify pressures on water bodies and assess risk of not achieving compliance with the Water Framework Directive
- Prepare a Characterisation Report
- Identify Heavily Modified (HMWB) and Artificial Water Bodies (AWB)
- Establish risk to waters from Hazardous Substances
- Establish data management system and GIS
- Prepare programme of measures
- Review of monitoring needs
- Design monitoring programme
- Prepare River Basin Management Strategy
- Assist public participation in the project
- Prepare printed reports
- Assist capacity building



### **Designations under relevant directives**

The Minane River is not a designated Shellfish area under the Shellfish Waters Regulations, S.I.268 of 2006. Ringabella Creek into which the Minane River flows, is also not designated under these regulations.

The Minane River is not designated a Salmonid Water under Salmonid Water Regulations, S.I. 293 of 1988.

The Minane River is not designated a Bathing Water under the Bathing Water Regulations, S.I. 79 of 2008 as amended.

The Minane River is not a designated Sensitive Area under the Urban Waste Water Treatment Regulations 2001 (S.I. 254 of 2001).

### **Areas of Conservation**

The Department of the Environment, Heritage and Local Government is responsible for the designation of conservation sites in Ireland. It is required under European law and national laws to conserve habitats and species, through designation of conservation areas under Special Areas of Conservation, Natural Heritage Areas and Special Protected Areas.

#### *Special Areas of Conservation*

Candidate Special Areas of Conservation (cSACs) are protected under the European Union (EU) Habitats Directive (92/43/EEC), as implemented in Ireland by the European Communities (Natural Habitats) Regulations, 1997.

The area surrounding the Minane River downstream of the discharge is not a designated special area of conservation.

#### *Natural Heritage Areas*

Natural Heritage Areas are the basic designation for wildlife. A NHA is an area considered important for the habitats present or which holds species of plants and animals whose habitat needs protection.

The Minane River does not flow through any Natural Heritage Areas (NHA).

Under the Wildlife Amendment Act 2000, NHAs are legally protected from damage from the date they are formally proposed for designation.

#### *Special Protected Areas*

Special Protected Areas (SPAs) are designated in order to safeguard certain habitats pursuant to EU Directive requirements. The EU Birds Directive (79/409/EEC) requires designation of SPAs for listed rare and vulnerable species, migratory species and wetlands.

No designated special protected areas are located along the Minane River downstream of the discharge.

### **Receiving Water Quality Requirement**

Water Quality analysis data for the Minane River has been undertaken by the EPA in the past. The Minane River system is covered in Hydrometric area no.19. The Minane River is deemed moderately polluted at points upstream of Minane Bridge and the status does not deteriorate downstream of the percolation area.

The standard water quality requirements for dangerous substances are based on the Water Quality (Dangerous Substances) Regulations 2001.

Hence, the principal receiving water quality requirements are given in Table 1 below:

*Table F1-1: Receiving Water Quality Limiting Values*

<b>Parameter</b>	<b>Water Quality Standard (ug/l)</b>
Atrazine	1.0
Dichloromethane	10.0
Simazine	1.0
Toluene	10.0
Tributyltin	0.001
Xylenes	10.0
Arsenic	25
Chromium	30
Copper	30
Cyanide	10
Fluoride	500
Lead	10
Nickel	50
Zinc	100

**Provide details of the extent and type of ground emissions at the works.**

The percolation area serves 8 houses in Spruce Grove, Minane Bridge with an estimated P.E. of 28. The discharge to the percolation area is approximately 75m from the Minane River.

**Provide a statement as to whether or not emissions of main polluting substances (as defined in the Dangerous Substances Regulations S. I. No 12 of 2001) to water are likely to impair the environment.**

There are no emissions to water at the works.

**In circumstances where water abstraction exist downstream of any discharge describe measures to be undertaken to ensure that discharges from the wastewater works will not have a significant effect on faecal coliform, salmonella and protozoan pathogen numbers, e.g., Giardia, in the receiving water environment.**

There is no abstraction point downstream of the percolation area.

**Indicate whether or not the emissions from the agglomeration or any plant, methods, processes, operating procedures or other factors which affect such emissions are likely to have an effect a Natural Heritage Area, site of community importance under the habitats directive, special area of conservation or a site classified under the conservation of wild birds directive.**

It is not considered that the emissions for the agglomeration or any plant, methods, processes, operating procedures or other factors which affect such emissions are likely to have an effect on a Natural Heritage Area, site of community importance under the habitats directive, special area of conservation or a site classified under the conservation of wild birds directive.

**Details of any modelling of discharges from the agglomeration.**

No modelling has been undertaken of the discharges from the agglomeration.

- o This section should also contain details of any modelling of discharges from the agglomeration. Any other relevant information on the receiving environment should be submitted as **Attachment F.1.**

<b>Attachment included</b>	<b>Yes</b>	<b>No</b>
		√

**F.2 Tabular Data on Drinking Water Abstraction Point(s)**

Applicants should submit the following information for each downstream or downgradient drinking water abstraction point. The zone of contribution for the abstraction point should be delineated and any potential risks from the waste water discharge to the water quality at that abstraction point identified.

<b>ABS_CD</b>	<b>AGG_SERVED</b>	<b>ABS_VOL</b>	<b>PT_CD</b>	<b>DIS_DS</b>	<b>EASTING</b>	<b>NORTHING</b>	<b>VERIFIED</b>
Abstraction Code	Agglomeration served	Abstraction Volume in m <sup>3</sup> /day	Point Code Provide label ID's	Distance Downstream in meters from Emission Point to Abstraction Point	6E-digit GPS Irish National Grid Reference	6N-digit GPS Irish National Grid Reference	Y = GPS used N = GPS not used

**Note:** Attach any risk assessment that may have been carried out in relation to the abstraction point(s) listed.

An individual record (i.e. row) is required for each abstraction point. Acceptable file formats include Excel, Access or other upon agreement with the Agency. A standard Excel template can be downloaded from the EPA website at [www.epa.ie](http://www.epa.ie). This data should be submitted to the Agency on a separate CD-Rom containing sections B.1, B.2, B.3, B.4, B.5, C.1, D.2 and E.3.

Not Applicable

**Attachment F.2** should contain any supporting information.

## **SECTION G: PROGRAMMES OF IMPROVEMENTS**

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

### **G.1 Compliance with Council Directives**

Provide details on a programme of improvements to ensure that emissions from the agglomeration or any premises, plant, methods, processes, operating procedures or other factors which affect such emissions will comply with, or will not result in the contravention of the;

- Dangerous Substances Directive 2006/11/EC,
- Water Framework Directive 2000/60/EC,
- Birds Directive 79/409/EEC,
- Groundwater Directives 80/68/EEC & 2006/118/EC,
- Drinking Water Directives 80/778/EEC,
- Urban Waste Water Treatment Directive 91/271/EEC,
- Habitats Directive 92/43/EEC,
- Environmental Liabilities Directive 2004/35/EC,
- Bathing Water Directive 76/160/EEC, and
- Shellfish Waters Directive (2006/113/EC).

#### **Dangerous Substances Directive 2006/11/EC**

A screening programme was undertaken for the purpose of this application for all of the substances listed in S.I. No 12/2001 – Water Quality (Dangerous Substances) Regulations, 2001 with the exception of tributyltin. The results of these tests form attachment E4. At present there is no programme of improvements planned for Minane Bridge.

#### **Water Framework Directive 2000/60/EC**

According to compiled EPA data the quality status of the Minane River is moderately polluted. At present there is no programme of improvements planned for Minane Bridge.

#### **Birds Directive 79/409/EEC**

Special Protection Areas (SPAs) are designated in order to safeguard certain habitats pursuant to EU Directive requirements. The EU Birds Directive (79/409/EEC) requires designation of SPAs for listed rare and vulnerable species, migratory species and wetlands.

No designated special protected areas are located along the Minane River. No programme of improvements is being considered at this time.

#### **Groundwater Directives 80/68/EEC & 2006/118/EC**

The Groundwater Directive 2006/118/EC has been developed in response to the requirements of Article 17 of the Water Framework Directive: Strategies to prevent and control pollution to groundwater. Groundwater Quality standards are to be established by the end of 2008.

There is one public groundwater source in the Minane Bridge area. This is located approximately 180m north of the discharge point, north of the river. The water source comprises an engineered infiltration gallery, about 40metres long, which underlies a fairly extensive tract of river gravels and alluvium on the northern side of the Minane River. The groundwater source is a public supply which has an estimated abstraction volume of 15m<sup>3</sup>/day. The water is treated by chlorination. In the past, recorded nitrate levels have exceeded acceptable levels.

Minane Bridge is designated as a village in the 2005 Carrigaline Local Area Plan. Future development in the village is constrained by supply, storage and treatment difficulties in the water supply scheme. A proposal to connect the Minane Bridge area to the Harbour and City Water Supply Scheme is listed in the Councils "Cork County Council Water Services Assessment of Needs July 2006". The Minane Bridge Water Supply Scheme has been approved by the Department of the Environment Heritage and Local Government to enter planning. The estimated cost of the Minane Bridge Water Supply Scheme on the WSIP Programme 2007 – 2009 is €1,421,000. See Attachment G1 for details.

### **Drinking Water Directives 80/778/EEC**

There is one public groundwater source in the Minane Bridge area. This is located approximately 180m north of the discharge point north of the river. The water source comprises an engineered infiltration gallery, about 40metres long, which underlies a fairly extensive tract of river gravels and alluvium on the northern side of the Minane River. The groundwater source is a public supply which has an estimated abstraction volume of 15 m<sup>3</sup>/day. The water is treated by chlorination. In the past, recorded nitrate levels have exceeded acceptable levels.

Minane Bridge is designated as a village in the 2005 Carrigaline Local Area Plan. Future development in the village is constrained by supply, storage and treatment difficulties in the water supply scheme. A proposal to connect the Minane Bridge area to the Harbour and City Water Supply Scheme is listed in the Councils "Cork County Council Water Services Assessment of Needs July 2006". The Minane Bridge Water Supply Scheme has been approved by the Department of the Environment Heritage and Local Government to enter planning. The estimated cost of the Minane Bridge Water Supply Scheme on the WSIP Programme 2007 – 2009 is €1,421,000. See Attachment G1 for details.

### **Urban Waste Water Treatment Directive 91/271/EEC**

The Urban Waste Water Treatment Regulations (S.I. 254 of 2001) gives effect to provisions of the Urban Waste Water Treatment Directive (91/271/EEC). The 2001 Irish Regulations cover the various requirements in relation to the collection and treatment of urban waste water.

The Regulations require that waste water arising from populations of less than 2000, shall, by the end of 2005, be subject to appropriate treatment prior to discharge. Appropriate treatment is defined as:

"...any process and / or disposal system which after discharge allows the receiving waters to meet the relevant quality objectives and the relevant provisions of the Directive and of other community Directives"

EPA 'Interim Report on Biological Survey of River Quality' indicated that the EPA have monitoring points on the Minane River. Minane River (river code 20/M/01) has a quality status of 'Moderately Polluted'. This status applies to a point upstream of Minane Bridge in the neighbouring village of Ballyfeard, and at the monitoring point of Minane Bridge, which is upstream of the abstraction point and the waste water discharge point. There is no data available downstream of the discharge to suggest any negative impacts of the Spruce Grove discharge. The receiving waters at Ringabella Bay are not deemed sensitive.

The Third Schedule of the 2001 Regulations gives a list of Sensitive areas. Article 4(2)(a) states that all discharges into Sensitive Areas require more stringent treatment than secondary treatment. The Minane River is not a designated Sensitive Area.

### **Habitats Directive 92/43/EEC**

Candidate Special Areas of Conservation (cSACs) are protected under the European Union (EU) Habitats Directive (92/43/EEC), as implemented in Ireland by the European Communities (Natural Habitats) Regulations, 1997. The cSAC is designated on the basis of the presence of a large number of EU Habitats Directive Annex 1 habitats and Annex 2 species. None of the rivers in this area are cSACs, this includes the Minane River.

### **Environmental Liabilities Directive 2004/35/EC**

The Environmental Liability Directive is about preventing and remedying environmental damage. It aims to hold operators whose activities have caused environmental damage financially liable for remedying this damage, and it aims to hold those whose activities have caused an imminent threat of environmental damage liable for taking preventive actions.

EPA 'Interim Report on Biological Survey of River Quality' indicated that the EPA have monitoring points on the Minane River. Minane River (river code 20/M/01) has a quality status of 'Moderately Polluted'. This status applies to a point upstream of Minane Bridge in the neighbouring village of Ballyfeard, and at the monitoring point of Minane Bridge, which is upstream of the abstraction point and the waste water discharge point. There is no data available downstream of the discharge to suggest any negative impacts of the Spruce Grove discharge. The receiving waters at Ringabella Bay are not deemed sensitive.

### **Bathing Water Directive 76/160/EEC**

The Minane River is not designated a Bathing Water under the Bathing Water Regulations, S.I. 178 of 1998 as amended.

### **Shellfish Waters Directive (2006/113/EC)**

The Minane River is not a designated Shellfish Area under the Shellfish Waters Regulations, S.I. 268 of 2006. Ringabella Bay, into which the Minane River flows, is also not designated under these regulations.

**Attachment G.1** should contain the most recent programme of improvements, including a copy of any approved funding for the project and a timeframe for the completion of the necessary works to take place.

Attachment included	Yes	No
	√	

### **G.2 Compliance with the European Communities Environmental Objectives (Surface Waters) Regulations 2009**

Provide details on a programme of improvements, including any water quality management plans or catchment management plans in place, to ensure that improvements of water quality required under the European Communities Environmental Objectives (Surface Waters) Regulations 2009 are being achieved. Provide details of any specific measures adopted for waste water works specified in Phosphorus Measures Implementation reports and the progress to date of those measures. Provide details highlighting any waste water works that have been previously identified as the principal sources of pollution under the Phosphorous Regulations (S.I. No. 258 of 1998).

The South Western River Basin District (SWRBD) Programme is a multi annual programme aimed at achieving at least a good status on all waters. Initially formed in order to achieve compliance with the Water Framework Directive, 2000 this programme aims to improve water standards. A river basin management system is being rolled out by the SWRBD team. The management plan of the waterways for Cork and Kerry will be published in early 2010 and will be published for consideration before the management plan is adopted.

**Attachment G.2** should contain the most recent programme of improvements and any associated documentation requested under Section G.3 of the application.

Attachment included	Yes	No
		√

### **G.3 Impact Mitigation**

Provide details on a programme of improvements to ensure that discharges from the agglomeration will not result in significant environmental pollution.

No information available.

**Attachment G.3** should contain the most recent programme of improvements, including a copy of any approved funding for the project and a timeframe for the completion of the necessary works to take place.

Attachment included	Yes	No
		√

**G.4 Storm Water Overflows**

Provide details on a programme of improvements to ensure that discharges other than the primary and secondary discharges comply with the definition of 'storm water overflow' as per Regulation 3 of the Waste Water Discharge (Authorisation) Regulations, 2007.

**NOT APPLICABLE**

**Attachment G.4** should contain the most recent programme of improvements, including a copy of any approved funding for the project and a timeframe for the completion of the necessary works to take place.

Attachment included	Yes	No
		√

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## SECTION H: DECLARATION

### Declaration

I hereby make application for a waste water discharge Certificate of Authorisation/revised Certificate of Authorisation, pursuant to the provisions of the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I. No. 684 of 2007).

I certify that the information given in this application is truthful, accurate and complete.

I give consent to the EPA to copy this application for its own use and to make it available for inspection and copying by the public, both in the form of paper files available for inspection at EPA and local authority offices, and via the EPA's website.

This consent relates to this application itself and to any further information or submission, whether provided by me as Applicant, any person acting on the Applicant's behalf, or any other person.

**Signed by :** \_\_\_\_\_ **Date :** \_\_\_\_\_  
(on behalf of the organisation)

**Print signature name:** \_\_\_\_\_

**Position in organisation:** \_\_\_\_\_

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**Attachments Table of Contents:**

<b>Attachment</b>	<b>Description</b>
A1 Map 1	1:25,000 Location Map
A1 Map 2	Location of WWTP
B1 Map 3	Agglomeration Boundary
B2 Map 4	Location of WWTP
B3 Map 5	Location of Primary Discharge Point
B4	Not Applicable
B5	Not Applicable
B6	Not Applicable
B7	Not Applicable
B8	Payment Attached
B9	Not Applicable
B10	Not Applicable
B11	Not Applicable
C1 Map 6	Location of WWTP
D1	Not Applicable
D2	Discharge Point
E2	Details of Accreditation or Certification of Analysis
E3	Monitoring & Sampling Points
E4	Sampling Data
F1	Not Applicable
F2	Not Applicable
G1	WSIP
G2	Not Applicable
G3	Not Applicable
G4	Not Applicable
Online Data	Online Data submitted to the EPA including Annex

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**South Cork Division**



N. O'Keeffe, B.Eng., C.Eng., Eur.Ing., F.I.E.I., M.I.C.E.,  
 Acting County Engineer  
 County Hall, Cork.

P. Power  
 Director of Services  
 South Cork.

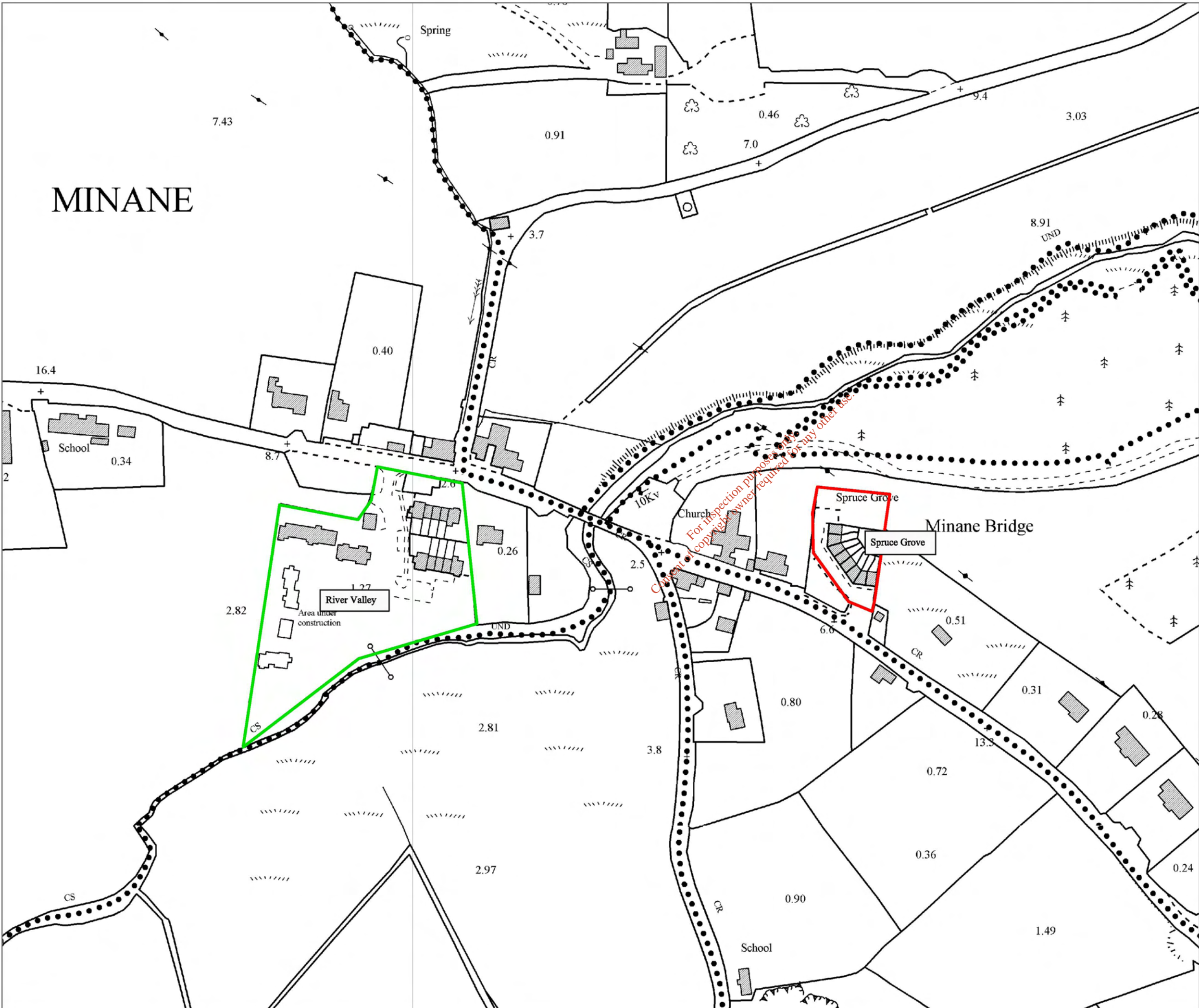
Project:  
**EPA LICENCE APPLICATION**  
**Minane Bridge**

Title:  
**Section A1**  
**Non-Technical Summary**  
**Agglomeration Location Map**

Designed: <b>BOL</b>	Checked: <b>BQ</b>	Scale: <b>1:50,000</b>	Drawing No. <b>01</b>
Drawn: <b>BOL</b>	Approved: <b>BQ</b>	Date: <b>24/11/09</b>	



# MINANE



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South Cork Division



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Acting County Engineer  
County Hall, Cork.

P. Power  
Director of Services  
South Cork.

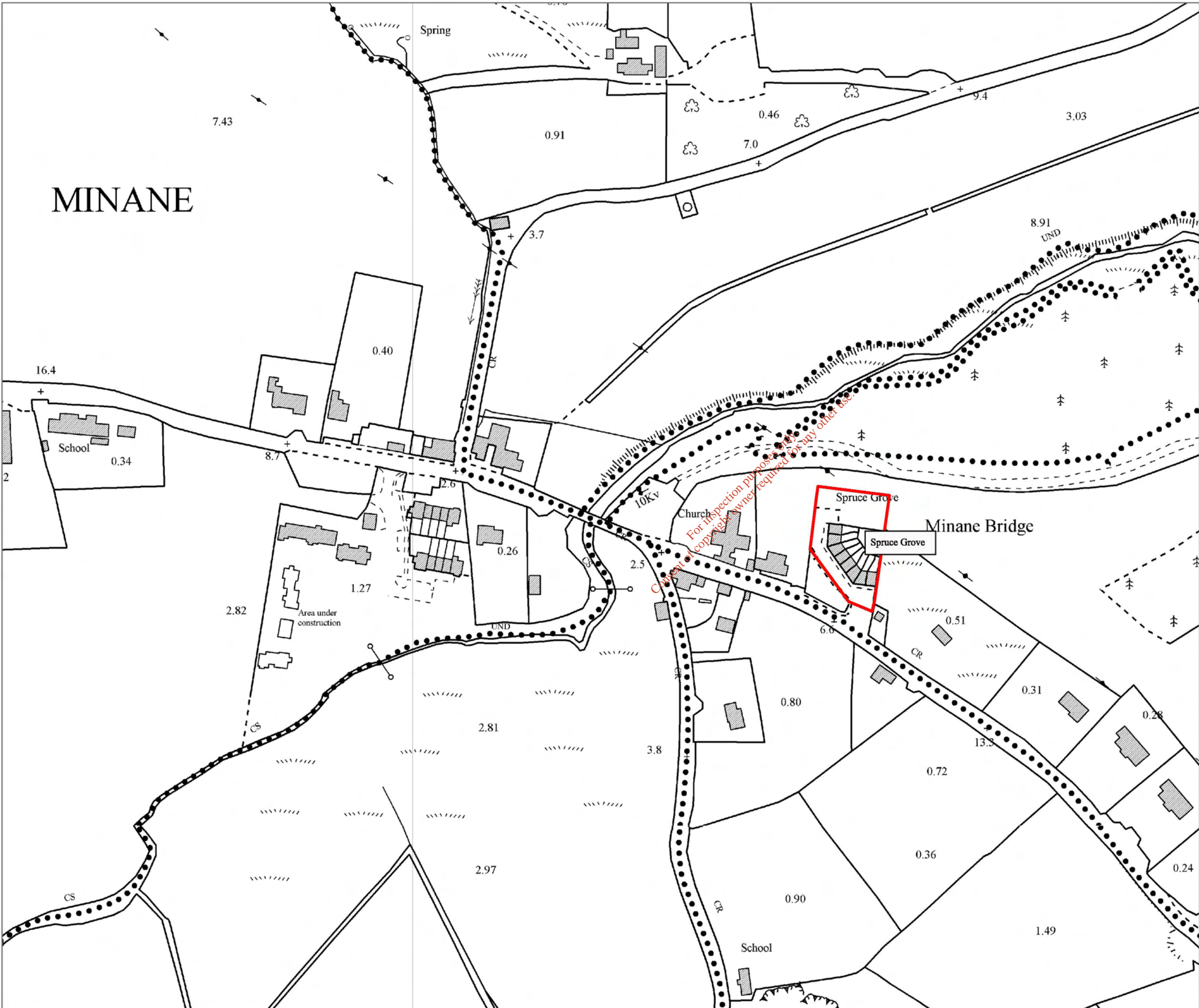
Project:  
**EPA LICENCE APPLICATION**  
Minane Bridge

Title:  
**Section A1**  
**Non-Technical Summary**  
**Minane Bridge Location Map**

Designed: <b>BOL</b>	Checked: <b>BQ</b>	Scale: <b>1:2,000</b>	Drawing No. <b>02</b>
Drawn: <b>BOL</b>	Approved: <b>BQ</b>	Date: <b>25/11/09</b>	



# MINANE



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South Cork Division



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Acting County Engineer  
County Hall, Cork.

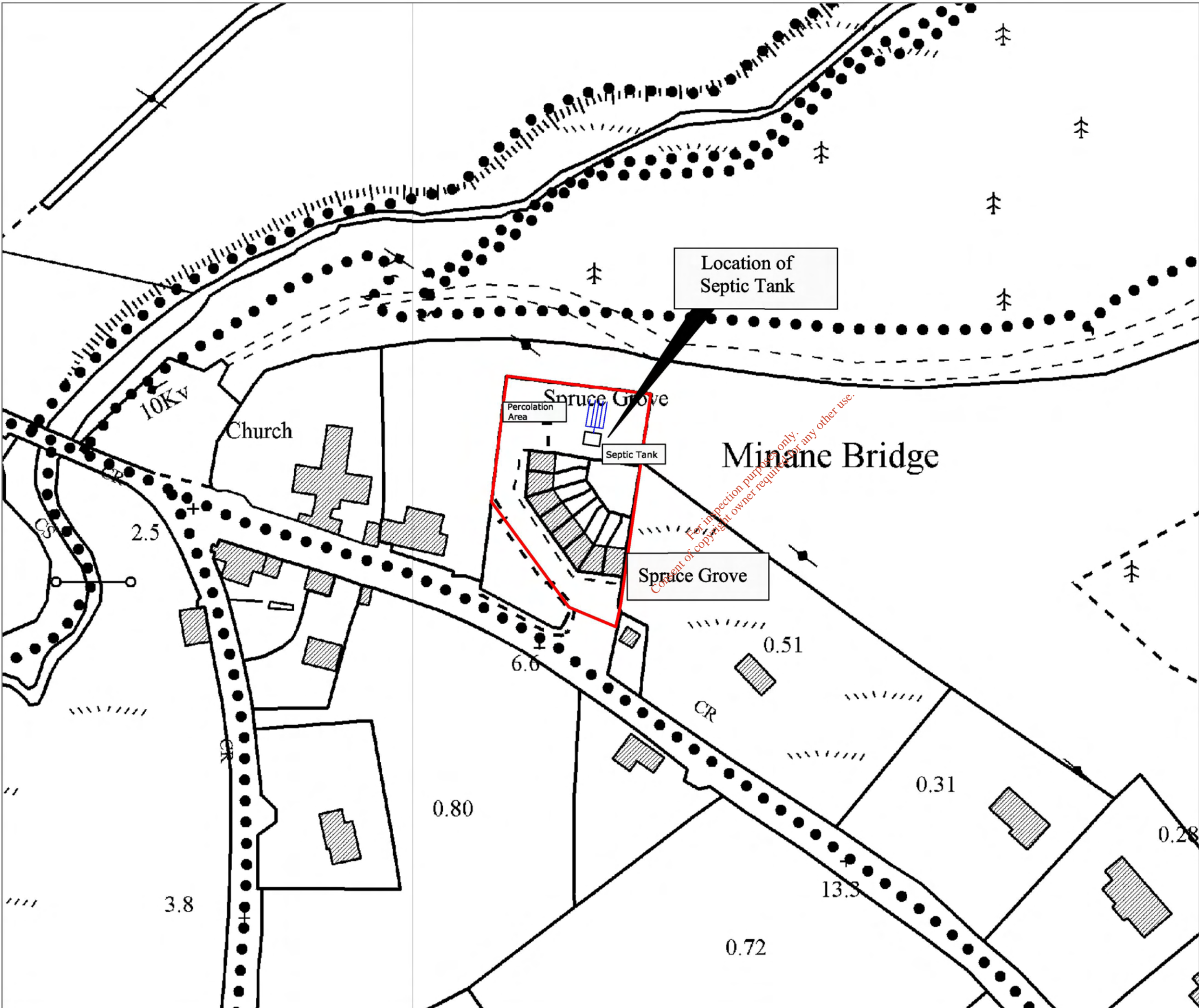
P. Power  
Director of Services  
South Cork.

Project:  
**EPA LICENCE APPLICATION**  
Minane Bridge

Title:  
**Section B1**  
**Agglomeration Details**  
**Outline of Agglomeration**

Designed: <b>BOL</b>	Checked: <b>BQ</b>	Scale: <b>1:2,000</b>	Drawing No. <b>03</b>
Drawn: <b>BOL</b>	Approved: <b>BQ</b>	Date: <b>25/11/09</b>	





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Location of Septic Tank

Percolation Area

Septic Tank

Spruce Grove

Spruce Grove

Minane Bridge

Church

10KV

CR

2.5

6.6

0.51

0.31

0.28


3.8

0.80

13.3

0.72

Cork County Council  
South Cork Division



N. O'Keeffe, B.Eng., C.Eng., Eur.Eng., F.I.E.I., M.I.C.E.,  
Acting County Engineer  
County Hall, Cork.

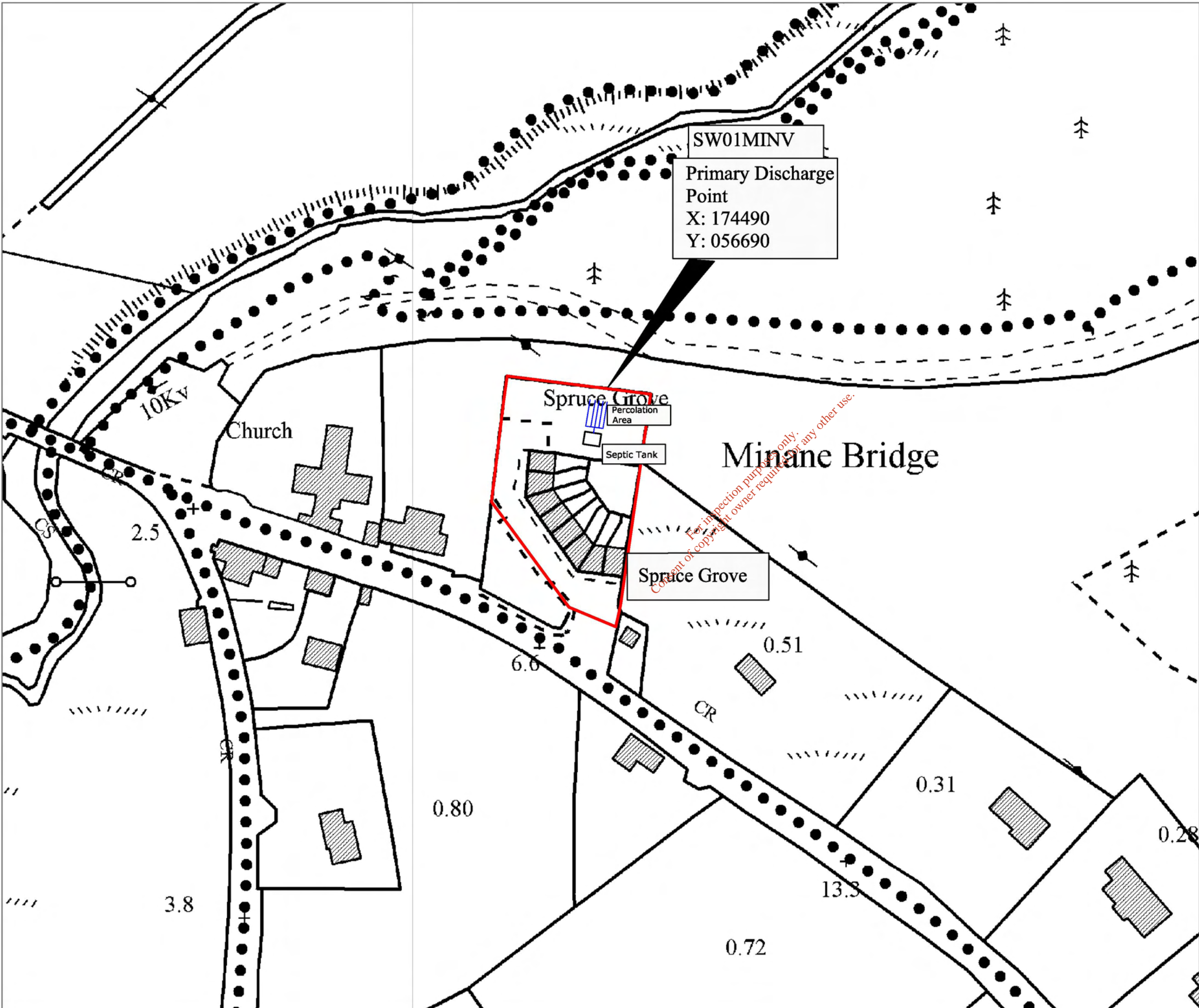
P. Power  
Director of Services  
South Cork.

Project:  
**EPA LICENCE APPLICATION**  
Minane Bridge

Title:  
**Section B2**  
**Agglomeration Details**  
**Location of WWTP**

Designed: <b>BOL</b>	Checked: <b>BQ</b>	Scale: <b>1:1,000</b>	Drawing No. <b>04</b>
Drawn: <b>BOL</b>	Approved: <b>BQ</b>	Date: <b>25/11/09</b>	






SW01MINV  
 Primary Discharge Point  
 X: 174490  
 Y: 056690

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 P. Power  
 Director of Services  
 South Cork.

Project:  
**EPA LICENCE APPLICATION**  
 Minane Bridge

Title:  
**Section B3**  
**Agglomeration Details**  
**Location of Primary Discharge Point**

Designed: <b>BOL</b>	Checked: <b>BQ</b>	Scale: <b>1:1,000</b>	Drawing No. <b>05</b>
Drawn: <b>BOL</b>	Approved: <b>BQ</b>	Date: <b>25/11/09</b>	

# Comhairle Contae Chorcaí Cork County Council

Environmental Directorate,  
Inniscarra, Co. Cork.  
Tel. No. (021) 4532700 • Fax No. (021) 4532727  
Web: [www.corkcoco.ie](http://www.corkcoco.ie)  
An Stiúrthóireacht Comhshaoil,  
Inis Cara, Co. Corcaigh.  
Fón: (021) 4532700 • Faics: (021) 4532727  
Suíomh Gréasáin: [www.corkcoco.ie](http://www.corkcoco.ie)



Mr. Frank Clinton,  
Program Manager,  
Office of Climate, Licensing & Resource Use,  
Environment Protection Agency,  
Headquarters,  
PO Box 3000,  
Johnstown Castle Estate,  
County Wexford.

16<sup>th</sup> December, 2009

**Re: Waste Water Discharge (Authorisation) Regulations 2007 – fees payable in respect of applications to be submitted by 22<sup>nd</sup> December, 2009.**

Dear Mr. Clinton,

I refer to the 72 certificate applications and 3 discharge authorisation licence applications which will be submitted by the council under the above regulations before the 22<sup>nd</sup> December next.

I note that the fees payable in respect of these applications amount to €246,000 and refer you to our letter of 7<sup>th</sup> November 2008 (sent by Ted O'Leary, Senior Executive Officer) seeking a rebate/reduction, as is provided for under Art 38 (3) of the regulations. I note that since that letter the council has paid a further € 570,000 in applications fees meaning that the total amount paid by the council to date amounts to € 1,245,000.

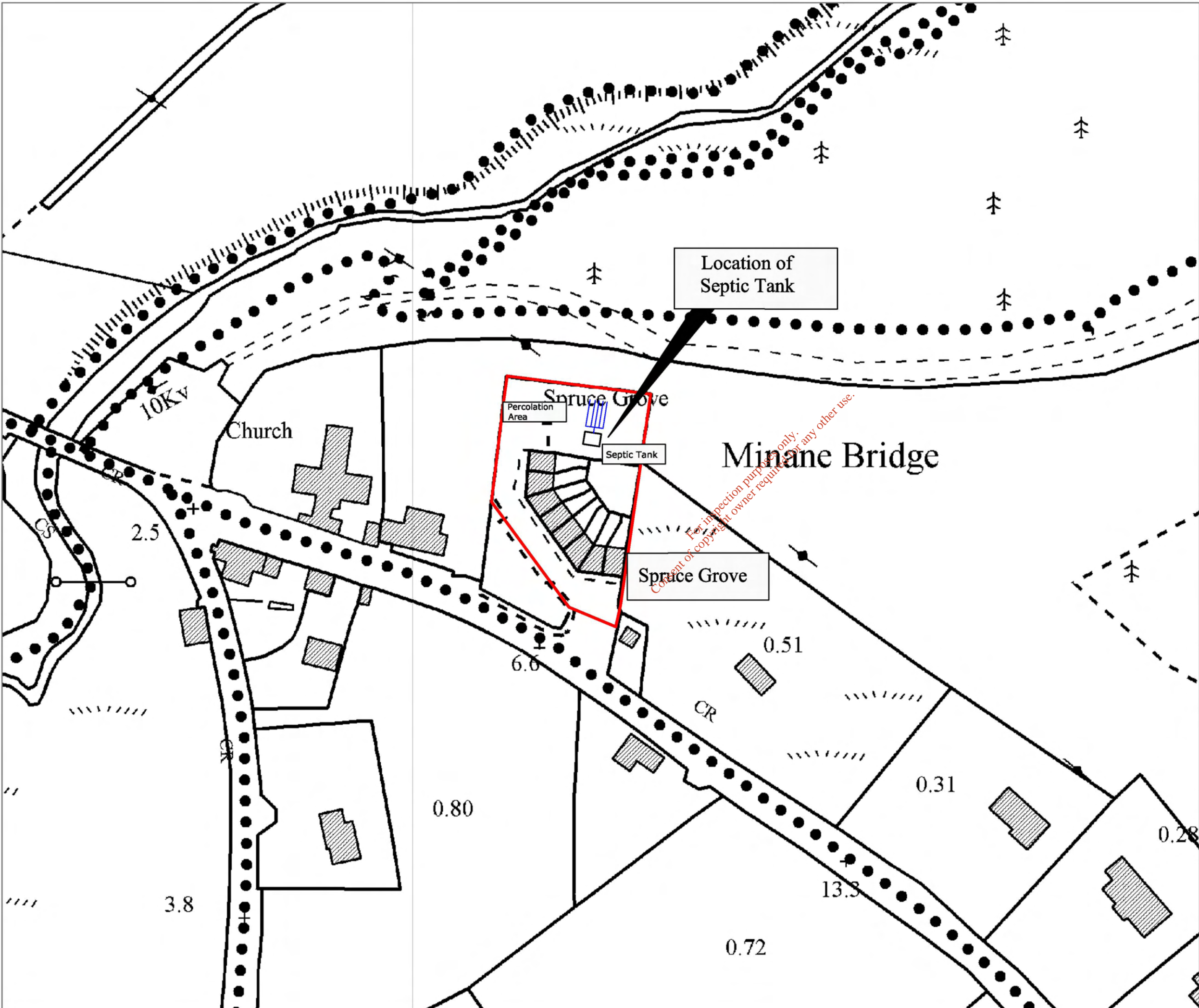
As you will appreciate, in the current economic climate, the amount payable in respect of this final batch of applications is a significant sum that was not budgeted for in 2009. Moreover we have paid a substantial amount in fees already and have made our case for a reduction/rebate. Accordingly, I must advise that we are not submitting payment in respect of these applications as we anticipate the rebate due to the council exceeds the fees payable.

Yours faithfully,

Louis Duffy,  
Director of Service,  
Environment & Emergency Services Directorate







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Acting County Engineer  
County Hall, Cork.

P. Power  
Director of Services  
South Cork.

Project:  
**EPA LICENCE APPLICATION**  
Minane Bridge

Title:  
**Section C1**  
**Agglomeration Details**  
**WWTP**

Designed: <b>BOL</b>	Checked: <b>BQ</b>	Scale: <b>1:1,000</b>	Drawing No. <b>06</b>
Drawn: <b>BOL</b>	Approved: <b>BQ</b>	Date: <b>25/11/09</b>	





# Accreditation Certificate

## Cork County Council

Wastewater Testing Laboratory, Inniscarra, Co. Cork

### Testing Laboratory

Registration number: 016T


is accredited by the Irish National Accreditation Board (INAB) to undertake testing as detailed in the Schedule bearing the Registration Number detailed above, in compliance with the International Standard ISO/IEC 17025:2005 2<sup>nd</sup> Edition "General Requirements for the Competence of Testing and Calibration Laboratories" (This Certificate must be read in conjunction with the Annexed Schedule of Accreditation)

Date of award of accreditation: 01:10:2002

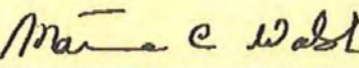
Date of last renewal of accreditation: 20:09:2007

Expiry date of this certificate of accreditation: 20:09:2012

This Accreditation shall remain in force until further notice subject to continuing compliance with INAB accreditation criteria, ISO/IEC 17025 and any further requirements specified by the Irish National Accreditation Board.

Manager: 

Mr Tom Dempsey

Chairperson: 

Dr Máire Walsh

Issued on 20th September 2007

Organisations are subject to annual surveillance and are re-assessed every five years. The renewal date on this Certificate confirms the latest date of renewal of accreditation. To confirm the validity of this Certificate, please contact the Irish National Accreditation Board.

The INAB is a signatory of the European co-operation for Accreditation (EA) Testing Multilateral Agreement (MLA) and the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement.

# Schedule of Accreditation



(Annex to Accreditation Certificate)

Permanent Laboratory:  
Category A

## CORK COUNTY COUNCIL

### Chemistry Testing Laboratory

*Initial Registration Date :* 25-April-1991  
*Postal Address:* Waste Water Laboratory  
*(Address of other locations as they apply)* Inniscarra  
Co. Cork  
*Telephone:* +353 (21) 4532700  
*Fax:* +353 (21) 4532777  
*E-mail:*  
*Contact Name:* Ms M Cherry  
*Facilities:* Normally not available for Public testing



# Schedule of Accreditation



Permanent Laboratory:  
Category A

THE IRISH NATIONAL ACCREDITATION BOARD (INAB) is the Irish body for the accreditation of organisations including laboratories.

Laboratory accreditation is available to testing and calibration facilities operated by manufacturing organisations, government departments, educational institutions and commercial testing/calibration services. Indeed, any organisation involved in testing, measurement or calibration in any area of technology can seek accreditation for the work it is undertaking.

Each accredited laboratory has been assessed by skilled specialist assessors and found to meet criteria which are in compliance with ISO/IEC 17025 or ISO/IEC 15189 (medical laboratories). Frequent audits, together with periodic inter-laboratory test programmes, ensure that these standards of operation are maintained.

## Testing and Calibration Categories:

- Category A:** Permanent laboratory calibration and testing where the laboratory is erected on a fixed location for a period expected to be greater than three years.
- Category B:** Site calibration and testing that is performed by staff sent out on site by a permanent laboratory that is accredited by the Irish National Accreditation Board.
- Category C:** Site calibration and testing that is performed in a site/mobile laboratory or by staff sent out by such a laboratory, the operation of which is the responsibility of a permanent laboratory accredited by the Irish National Accreditation Board.
- Category D:** Site calibration and testing that is performed on site by individuals and organisations that do not have a permanent calibration/testing laboratory. Testing may be performed using
- (a) portable test equipment
  - (b) a site laboratory
  - (c) a mobile laboratory or
  - (d) equipment from a mobile or site laboratory

## Standard Specification or Test Procedure Used:

The standard specification or test procedure that is accredited is the issue that is current on the date of the most recent visit, unless otherwise stated.

## Glossary of Terms

### Facilities:

- Public calibration/testing service:** Commercial operations which actively seek work from others.
- Conditionally available for public calibration/testing:** Established for another primary purpose but, more commonly than not, is available for outside work.
- Normally not available for public calibration/testing:** Unavailable for public calibration/testing more often than not.

Laboratory users wishing to obtain assurance that calibration or test results are reliable and carried out to the Irish National Accreditation Board criteria should insist on receiving an accredited calibration certificate or test report. Users should contact the laboratory directly to ensure that this scope of accreditation is current. INAB will, on request, verify the status and scope.

# Scope of Accreditation



**Cork County Council**  
**Chemical Testing Laboratory**

Permanent Laboratory:  
 Category A

INAB Classification number (P9)	Type of test/properties measured	Standard specifications
Materials/products tested	Range of measurement	Equipment/techniques used
766 Waters	Chemical analysis:	Documented in-house methods based on Standard Methods for the Examination of Water & Wastewater 21 st Edition APHA (See Note 1)
.01 Waters for domestic purposes Surface and ground waters	Biochemical Oxygen Demand 2 - 145,000 mg/l	CP No. 1 Membrane electrode
	Chloride 5 - 1,000 mg/l	CP No. 7 Argentometric method
	ph 2 - 12	CP No. 5 Electrometry
	Suspended Solids 0.5 - 17,500 mg/l	CP No. 3 Gravimetric
	Chemical Oxygen Demand 21 - 135 mg/l 120 - 670,000 mg/l	CP No. 6 Reflux - colourmetric method
	Total phosphorus 0.2 - 5,300 mg/l	US-EPA Approved method/HACH Method CP No.20
	Ammonia 0.1 - 1,000 mg/l NH <sub>3</sub> - N	Documented in-house method CP22 by Konelab based on Method for the Examination of Waters and Associated Material HMSO:1981



# Scope of Accreditation



**Cork County Council**  
**Chemical Testing Laboratory**

Permanent Laboratory:  
 Category A

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
766 Waters .01 Waters for domestic purposes <i>Surface and ground waters</i>	Orthophosphate as P (Konelab) Range: 0.005-1.00 mg O-PO4 P/L High Range: 1000 mg O-PO4 P/L Method Detection Limit: 0.02 mg O-PO4 P/L  Chloride (Konelab) Range: 25-250 mg/L Cl- High Range Conc.: 86,000 mg/L Cl- Method Detection Limit: 25 mg/L Cl-  Sulphate (Konelab) Range: 30-250 mg/L SO4/L High Range Conc.: 35,000 mg/L SO4/L Method Detection Limit: 30 mg SO4/L	CP No. 23 Ascorbic Acid Method   CP No. 24 Ferricyanide Method   CP No. 25 Documented in-house method by Konelab based on method for the examination of waters and waste waters and associated material HMSO: 1981

# Scope of Accreditation



## Cork County Council Chemical Testing Laboratory

Permanent Laboratory:  
Category A

INAB Classification number (P9)	Type of test/properties measured	Standard specifications
Materials/products tested	Range of measurement	Equipment/techniques used
766 Waters	Chemical analysis	Documented in-house methods based on Standard Methods for the Examination of Water & Wastewater 21 st Edition APHA (See Note 1)
.05 Trade Wastes <i>Industrial effluents</i> <i>Urban Wastewater</i> <i>Municipal Wastewater</i>	Biochemical Oxygen Demand 2 - 145,000 mg/l	CP No. 1 Membrane electrode
	Chloride 5 - 1,000 mg/l	CP No. 7 Argentometric method
	pH 2 - 12	CP No. 5 Electrometry
	Suspended Solids 0.5 - 17,500 mg/l	CP No. 3 Gravimetric
	Chemical Oxygen Demand 21 - 135 mg/l 120 - 670,000 mg/l	CP No. 6 Reflux - colourmetric method
	Total phosphorus 0.2 - 5,300 mg/l	US-EPA Approved method/HACH Method CP No.20
	Ammonia 0.1 - 1,000 mg/l NH3-N	Documented in-house method CP22 by Konelab based on Method for the Examination of Waters and Associated Material HMSO: 1981.

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Notes  
1. APHA American Public Health Association, USA, 21<sup>st</sup> Edition



# Scope of Accreditation



Cork County Council

Permanent Laboratory:

Category A

Chemical Testing Laboratory

INAB Classification number (P9)	Materials/products tested	Type of test/properties measured	Range of measurement	Standard specifications	Equipment/techniques used
766	Waters	Chemical analysis			Documented in-house methods based on Standard Methods for the Examination of Water & Wastewater 21 st Edition APHA (See Note 1)
.05	Trade Wastes Industrial effluents Urban Wastewater Municipal Wastewater				CP No. 1 Membrane electrode
		Orthophosphate as P (Konelab)	Range: 0.005 - 1.00 mg O-PO4 P/L High Range: 1000 mg O-PO4 P/L Method Detection Limit: 0.02 mg O-PO4 P/L		CP No. 23 Ascorbic Acid Method
		Chloride (Konelab)	Range: 25-250 mg/L Cl- High Range Conc.: 86,600 mg /L Cl- Method Detection Limit: 25mg / L Cl-		CP No. 24 Ferricyanide Method
		Sulphate (Konelab))	Range: 30-250 mg/L SO4 /L High Range Conc.: 35,000 mg/L SO4 /L Method Detection Limit: 30 mg SO4 /L		CP No. 25 Documented in-house method by Konelab based on method for the examination of waters and waste waters and associated material HMSO: 1981

Notes

1. APHA American Public Health Association, USA, 21<sup>st</sup> Edition



### Attachment E4 Minane Bridge Table E4

Sample Date	22/10/2009	22/10/2009
Sample	Septic Tank	Minane River Downstream
Sample Code	GT1297	GT1298
Flow M <sup>3</sup> /Day	No result	*
pH	7.3	7.4
Temperature °C	No result	*
Conductivity uS/cm 20 °C	589	186
Suspended Solids mg/L	502	33
Ammonia-N mg/L	30.3	0.1
BOD mg/L	794	8
COD mg/L	2548	47
TN-N mg/L	52.67	3.76
Nitrite-N mg/L	<0.1	0.1
Nitrate-N mg/L	<0.5	1.47
TP-P mg/L	6.9	0.308
O-PO4-P mg/L	5.0	0.13
SO4 mg/L	36.5	<30
Phenols µg/L	7.892	*
Atrazine µg/L	43.158	*
Dichloromethane µg/L	<1	*
Simazine µg/L	<0.01	*
Toluene µg/L	137.95	*
Tributyltin µg/L	not required	not required
Xylenes µg/L	18.672	*
Arsenic µg/L	0.7	*
Chromium ug/L	<20	<20
Copper ug/L	224.8	<20
Cyanide µg/L	35	*
Fluoride µg/L	69	84
Lead ug/L	<20	<20
Nickel ug/L	<20	<20
Zinc ug/L	516.6	<20
Boron ug/L	982.5	66.3
Cadmium ug/L	<20	<20
Mercury µg/L	<0.03	*
Selenium µg/L	<2.12	*
Barium ug/L	33.6	<20

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# Attachment G.1. Capital Investment Programme

## Cork County

### Water Services Investment Programme 2007 - 2009

Schemes at Construction	W/S	Est. Cost	Schemes to start 2009 cont'd.	W/S	Est. Cost
<b>Cork North</b>			<b>Cork South</b>		
Mitchelstown Sewerage Scheme (Nutrient Removal)	S	221,000	Ballinoolig Sewerage Scheme (Upgrade) (G)	S	22,248,000
			Cork Lower Harbour Sewerage Scheme (excl. Crosshaven SS)S		73,542,000
<b>Cork South</b>			Shamagarry/Garryvoe/Ballyodion Sewerage Scheme	S	3,780,000
Ballycurney/Ballymaekery Sewerage Scheme	S	3,049,000	Youghal Sewerage Scheme	S	14,420,000
Cobh/Midleton/Carrigrohilly Water Supply Scheme	W	10,135,000			
<b>Cork Lower Harbour Sewerage Scheme (Crosshaven SS) (G)</b>	S	4,850,000	<b>Cork West</b>		
Cork Water Strategy Study (G)	W	941,000	Ballydohob Sewerage Scheme	S	683,000
Kinsale Sewerage Scheme	S	20,000,000	Bantry Water Supply Scheme	W	14,935,000
Midleton Sewerage Scheme (Infiltration Reduction) (G)	S	2,078,000	Cronakilly Sewerage Scheme (Plant Capacity Increase)	S	3,677,000
		41,274,000	Courtmaashery/Timoleague Sewerage Scheme	S	2,472,000
<b>Schemes to start 2007</b>			Dunmanway Regional Water Supply Scheme Stage 1	W	12,689,000
					164,629,000
<b>Cork North</b>			<b>Service Land Initiative</b>		
North Cork Grouped DBO Wastewater Treatment Plant (Buttevant, Doneraile & Kibrin)	S	5,150,000	<b>Cork North</b>		
			Ballydough Water Supply Scheme	W	139,000
<b>Cork West</b>			Ballydooley Improvement Scheme	W/S	139,000
Skibbereen Sewerage Scheme	S	20,000,000	Broggilly-Pathgoggin Sewerage Scheme	S	405,000
		25,150,000	Bweeng Water Supply Scheme	W	115,000
<b>Schemes to start 2008</b>			Churchtown Sewerage Scheme (incl. Water)	W/S	543,000
<b>Cork North</b>			Condulane Sewage Treatment Plant	S	417,000
Mallow/Ballyvinter Regional Water Supply Scheme (H)	W	8,652,000	Fremont Sewerage Scheme	S	150,000
Mallow Sewerage Scheme (H)	S	5,408,000	Pike Road Sewerage Scheme (incl. Water)	W/S	2,080,000
			Pathgoggin Sewerage Scheme (incl. Water)	W/S	535,000
<b>Cork South</b>			Shanagarry Sewerage Scheme	S	735,000
Ballinoolig Sewerage Scheme (Nutrient Removal) (G)	S	948,000	Uplinton Farmoy Sewerage Scheme (incl. Water)	W/S	1,174,000
Ballingeary Sewerage Scheme	S	1,296,000	Watergrasshill Water Supply Scheme (incl. Sewerage) (G)	W/S	4,151,000
Bandon Sewerage Scheme Stage 2	S	14,729,000			
City Environs (CASP) Strategic Study (G)	S	2,000,000	<b>Cork South</b>		
Cloghros Sewerage Scheme (Upgrade)	S	823,000	Ballinoolig Sewerage Scheme (Bany's Rd Foulard Storm Drainage) (G)	S	1,164,000
Coashford Water Supply Scheme	W	1,434,000	Belgrosley Water Supply Scheme (incl. Sewerage)	W/S	2,913,000
Garretstown Sewerage Scheme	S	2,153,000	Bantry Water Supply Scheme (Ext. to Station Rd) (G)	W	416,000
Inniscaura Water Treatment Plant Extension Phase 1	W	2,678,000	Carrigrohilly Sewerage Scheme (Treatment and Storm Drain) (G)	S	7,632,000
Little Island Sewerage Scheme (G)	S	2,200,000	Castlemartyr Wastewater Treatment Plant Extension	S	1,200,000
			Crookstown Sewerage Scheme (incl. Water)	W/S	1,200,000
<b>Cork West</b>			Dipsay Water Supply Scheme (incl. Sewerage)	W/S	1,112,000
Bantry Sewerage Scheme	S	7,148,000	Glourthene Sewerage Scheme (G)	S	1,576,000
Dunmanway Sewerage Scheme	S	2,153,000	Irishannon Sewerage Scheme	S	277,000
Leap/Baltimore Water Supply Scheme	W	6,365,000	Irishannon Wastewater Treatment Plant	S	694,000
Schull Water Supply Scheme	W	5,253,000	Kerrypike Sewerage Scheme	S	832,000
		61,137,000	Kerrypike Water Supply Scheme	W	416,000
<b>Schemes to start 2009</b>			Kilbegh Wastewater Treatment Plant Extension	S	1,200,000
<b>Cork North</b>			Kilbegh Water Supply Scheme (includes Sewerage)	W/S	485,000
Banteen/Dromahane Regional Water Supply Scheme	W	1,576,000	Kilbena Sewerage Scheme	S	420,000
Conna Regional Water Supply Scheme Extension	W	2,627,000	Kinagoe Sewerage Scheme	S	694,000
Cork NE Water Supply Scheme	W	4,326,000	Midleton Wastewater Treatment Plant Extension	S	4,030,000
Cork NW Regional Water Supply Scheme	W	6,046,000			
Millstreet Wastewater Treatment Plant (Upgrade)	S	1,628,000			



## Cork County contd.

### Water Services Investment Programme 2007 - 2009

Serviced Land Initiative contd.	W/S	Est. Cost	Schemes to Advance through Planning contd.	W/S	Est. Cost
<b>Cork South contd.</b>			<b>Cork South</b>		
Mogely Castlemarye & Ladsbridge Water Supply Scheme	W	2,566,000	Carriagwohill Sewerage Scheme (G)	S	20,000,000
North Cogh Sewerage Scheme (G)	S	3,193,000	Cork Sludge Management (G)	S	14,420,000
Rivestick Water Supply Scheme (Ind. Sewerage)	W/S	525,000	Cork Water Supply Scheme (Storage - Mount Emla, Ballinoolig & Chetwind) (G)	W	8,500,000
Rohestown Water Supply Scheme	W	2,700,000	Intracoma Water Treatment Plant (Sludge Treatment)(G/W)		5,356,000
Saleen Sewerage Scheme	S	1,051,000	Macroom Sewerage Scheme	S	5,150,000
Youghal Water Supply Scheme	W	2,300,000	Minane Bridge Water Supply Scheme	W	1,421,000
<b>Cork West</b>			<b>Cork West</b>		
Castletownshend Sewerage Scheme	S	1,576,000	Bantry Regional Water Supply Scheme (Distribution)	W	9,455,000
		50,787,000	Cape Clear Water Supply Scheme	W	1,679,000
<b>Rural Towns &amp; Villages Initiative</b>			Castletownbere Regional Water Supply Scheme		
			Glenamiff Sewerage Scheme	S	2,500,000
<b>Cork North</b>			Roscarberry/Owenahinchu Sewerage Scheme		
Buttevant Sewerage Scheme (Collection System)	S	2,446,000	Skibbereen Regional Water Supply Scheme Stage 4	W	7,880,000
Doneraile Sewerage Scheme (Collection System)	S	1,738,000			95,646,000
<b>Cork South</b>			<b>Water Conservation Allocation</b>		
Imisharmon (Ballinacoe/Ballinspittle/Garretstown) Water Supply Scheme	W	6,726,000			12,206,000
<b>Cork West</b>			<b>Asset Management Study</b>		
					300,000
Ballydy Sewerage Scheme	S	2,153,000	South Western River Basin District (WFD) Project <sup>1</sup>		
Baltimore Sewerage Scheme	S	3,162,000			9,400,000
Castletownbere Sewerage Scheme	S	5,202,000	<b>Programme Total</b>		
Schull Sewerage Scheme	S	3,523,000			<b>485,489,000</b>
		<b>24,550,000</b>			
<b>Schemes to Advance through Planning</b>					
<b>Cork North</b>					
Milchdstown North Galtees Water Supply Scheme	W	3,620,000			
Milchdstown Sewerage Scheme	S	3,460,000			
Newmarket Sewerage Scheme	S	3,152,000			

<sup>1</sup> This project is being led by Cork County Council on behalf of other authorities in the River Basin District

(H) Refers to a Hub as designated in the National Spatial Strategy

(G) Refers to a Gateway as designated in the National Spatial Strategy

Agglomeration details

Leading Local Authority	Cork County Council
Co-Applicants	
Agglomeration	Minane Bridge
Population Equivalent	28
Level of Treatment	Primary Treatment
Treatment plant address	Spruce Grove Minane Bridge Cork
Grid Ref (12 digits, 6E, 6N)	174490 / 056690 (Verified using GPS)
EPA Reference No:	

Contact details

Contact Name:	Patricia Power
Contact Address:	Water Services Section Cork County Council Southern Division Carrigrohane Road Cork
Contact Number:	021-4276891
Contact Fax:	021-4276321
Contact Email:	patricia.power@corkcoco.ie

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Table D.1(i)(a): EMISSIONS TO SURFACE/GROUND WATERS (Primary Discharge Point)

Discharge Point Code: GW-1

Local Authority Ref No:	BOL/MINB/1209	
Source of Emission:	Septic Tank serving 8 houses	
Location:	Laharran, Minane Bridge	
Grid Ref (12 digits, 6E, 6N)	174490 / 056690 (Verified using GPS)	
Name of Receiving waters:	Minane River	
Water Body:	Ground Water Body	
River Basin District	South Western RBD	
Designation of Receiving Waters:	Moderate	
Flow Rate in Receiving Waters:	0	m <sup>3</sup> .sec <sup>-1</sup> Dry Weather Flow
	0	m <sup>3</sup> .sec <sup>-1</sup> 95% Weather Flow
Additional Comments (e.g. commentary on zero flow or other information deemed of value)	flow data for the Minane River was not available	

Emission Details:

(i) Volume emitted			
Normal/day	5 m <sup>3</sup>	Maximum/day	6.75 m <sup>3</sup>
Maximum rate/hour	0.28125 m <sup>3</sup>	Period of emission (avg)	60 min/hr 24 hr/day 365 day/yr
Dry Weather Flow	5.778E-05 m <sup>3</sup> /sec		

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Table D.1(i)(b): EMISSIONS TO SURFACE/GROUND WATERS - Characteristics of The Emission (Primary Discharge Point)

Discharge Point Code: GW-1

Substance	As discharged			
	Unit of Measurement	Sampling Method	Max Daily Avg.	kg/day
pH	pH	Grab	= 9	
Temperature	°C	Grab	= 25	
Electrical Conductivity (@ 25°C)	µS/cm	Grab	= 1000	
Suspended Solids	mg/l	Grab	= 35	0.23625
Ammonia (as N)	mg/l	Grab	= 5	0.03375
Biochemical Oxygen Demand	mg/l	Grab	= 25	0.16875
Chemical Oxygen Demand	mg/l	Grab	= 125	0.84375
Total Nitrogen (as N)	mg/l	Grab	= 0	0
Nitrite (as N)	mg/l	Grab	= 0	0
Nitrate (as N)	mg/l	Grab	= 0	0
Total Phosphorous (as P)	mg/l	Grab	= 4	0.027
OrthoPhosphate (as P)	mg/l	Grab	= 3	0.02025
Sulphate (SO <sub>4</sub> )	mg/l	Grab	= 0	0
Phenols (Sum)	µg/l	Grab	= 0	0

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper

For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

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Table D.1(i)(c): DANGEROUS SUBSTANCE EMISSIONS TO SURFACE/GROUND WATERS - Characteristics of The Emission (Primary Discharge Point)

Discharge Point Code: GW-1

Substance	As discharged			
	Unit of Measurement	Sampling Method	Max Daily Avg.	kg/day
Atrazine	µg/l	Grab	= 0	0
Dichloromethane	µg/l	Grab	= 0	0
Simazine	µg/l	Grab	= 0	0
Toluene	µg/l	Grab	= 0	0
Tributyltin	µg/l	Grab	= 0	0
Xylenes	µg/l	Grab	= 0	0
Arsenic	µg/l	Grab	= 0	0
Chromium	µg/l	Grab	= 0	0
Copper	µg/l	Grab	= 0	0
Cyanide	µg/l	Grab	= 0	0
Flouride	µg/l	Grab	= 0	0
Lead	µg/l	Grab	= 0	0
Nickel	µg/l	Grab	= 0	0
Zinc	µg/l	Grab	= 0	0
Boron	µg/l	Grab	= 0	0
Cadmium	µg/l	Grab	= 0	0
Mercury	µg/l	Grab	= 0	0
Selenium	µg/l	Grab	= 0	0
Barium	µg/l	Grab	= 0	0

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper

For Phenols: USEPA Method 604, AWWA Standard Method 6246, or equivalent.

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TABLE E.1(i): WASTE WATER FREQUENCY AND QUANTITY OF DISCHARGE – Primary and Secondary Discharge Points

Identification Code for Discharge point	Frequency of discharge (days/annum)	Quantity of Waste Water Discharged (m <sup>3</sup> /annum)
GW-1	365	1825

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TABLE E.1(ii): WASTE WATER FREQUENCY AND QUANTITY OF DISCHARGE – Storm Water Overflows

Identification Code for Discharge point	Frequency of discharge (days/annum)	Quantity of Waste Water Discharged (m <sup>3</sup> /annum)	Complies with Definition of Storm Water Overflow
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TABLE F.1(i)(a): SURFACE/GROUND WATER MONITORING

Primary Discharge Point

Discharge Point Code:	GW-1
MONITORING POINT CODE:	aGW-1d
Grid Ref (12 digits, 6E, 6N)	174786 / 056914

Parameter	Results (mg/l)				Sampling method	Limit of Quantitation	Analysis method / technique
	01/01/09	22/10/09					
pH		= 7.4			Grab	2	Electrochemical
Temperature	= 0				Grab	0.5	Electrochemical
Electrical Conductivity (@ 25°C)		= 186			Grab	0.5	Electrochemical
Suspended Solids		= 33			Grab	0.5	Gravimetric
Ammonia (as N)		= 0.1			Grab	0.02	Colorimetric
Biochemical Oxygen Demand		= 8			Grab	0.06	Electrochemical
Chemical Oxygen Demand		= 47			Grab	8	Digestion & Colorimetric
Dissolved Oxygen	= 0				Grab	0.2	ISE
Hardness (as CaCO <sub>3</sub> )	= 0				Grab	1	Titrimetric
Total Nitrogen (as N)		= 3.76			Grab	0.5	Digestion & Colorimetric
Nitrite (as N)		= 0.1			Grab	0.1	Colorimetric
Nitrate (as N)		= 1.47			Grab	0.5	Colorimetric
Total Phosphorous (as P)		= 0.308			Grab	0.2	Digestion & Colorimetric
OrthoPhosphate (as P)		= 0.13			Grab	0.02	Colorimetric
Sulphate (SO <sub>4</sub> )		< 30			Grab	30	Turbidimetric
Phenols (Sum)	= 0				Grab	0.1	GC-MS2

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For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper

For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

Additional Comments:	Default of 01/01/09 and 0 where results are not available
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TABLE F.1(i)(b): SURFACE/GROUND WATER MONITORING (Dangerous Substances)

Primary Discharge Point

Discharge Point Code:	GW-1
MONITORING POINT CODE:	aGW-1d
Grid Ref (12 digits, 6E, 6N)	174786 / 056914

Parameter	Results (µg/l)			Sampling method	Limit of Quantitation	Analysis method / technique
	01/01/09	22/10/09				
Atrazine	= 0			Grab	0.96	HPLC
Dichloromethane	= 0			Grab	1	GC-MS1
Simazine	= 0			Grab	0.01	HPLC
Toluene	= 0			Grab	0.02	GC-MS1
Tributyltin	= 0			Grab	0.02	GC-MS1
Xylenes	= 0			Grab	1	GC-MS1
Arsenic	= 0			Grab	0.96	ICP-MS
Chromium		< 20		Grab	20	ICP-OES
Copper		< 20		Grab	20	ICP-OES
Cyanide	= 0			Grab	5	Colorimetric
Flouride		= 84		Grab	100	ISE
Lead		< 20		Grab	20	ICP-OES
Nickel		< 20		Grab	20	ICP-OES
Zinc		< 20		Grab	20	ICP-OES
Boron		= 66.3		Grab	20	ICP-OES
Cadmium		< 20		Grab	20	ICP-OES
Mercury	= 0			Grab	0.2	ICP-MS
Selenium	= 0			Grab	0.74	ICP-MS
Barium		< 20		Grab	20	ICP-OES

Additional Comments:	TBT value is 0.02ug/l as Sn Default of 01/01/09 and 0 where no results are available, TBT testing not required
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**Annex 2: Check List For Regulation 16 Compliance**

Regulation 16 of the waste water discharge (Authorisation) Regulations 2007 (S.I. No. 684 of 2007) sets out the information which must, in all cases, accompany a discharge licence application. In order to ensure that the application fully complies with the legal requirements of regulation 16 of the 2007 Regulations, all applicants should complete the following.

In each case, refer to the attachment number(s), of your application which contains(s) the information requested in the appropriate sub-article.

<b>Regulation 16(1)</b> <b>In the case of an application for a waste water discharge licence, the application shall -</b>		<b>Attachment Number</b>	<b>Checked by Applicant</b>
(a)	give the name, address, telefax number (if any) and telephone number of the applicant (and, if different, of the operator of any treatment plant concerned) and the address to which correspondence relating to the application should be sent and, if the operator is a body corporate, the address of its registered office or principal office,		Yes
(b)	give the name of the water services authority in whose functional area the relevant waste water discharge takes place or is to take place, if different from that of the applicant,		Yes
(c)	give the location or postal address (including where appropriate, the name of the townland or townlands) and the National Grid reference of the location of the waste water treatment plant and/or the waste water discharge point or points to which the application relates,		Yes
(d)	state the population equivalent of the agglomeration to which the application relates,		Yes
(e)	specify the content and extent of the waste water discharge, the level of treatment provided, if any, and the flow and type of discharge,		Yes
(f)	give details of the receiving water body, including its protected area status, if any, and details of any sensitive areas or protected areas or both in the vicinity of the discharge point or points likely to be affected by the discharge concerned, and for discharges to ground provide details of groundwater protection schemes in place for the receiving water body and all associated hydrogeological and geological assessments related to the receiving water environment in the vicinity of the discharge.		Yes
(g)	identify monitoring and sampling points and indicate proposed arrangements for the monitoring of discharges and, if Regulation 17 does not apply, provide details of the likely environmental consequences of any such discharges,		Yes
(h)	in the case of an existing waste water treatment plant, specify the sampling data pertaining to the discharge based on the samples taken in the 12 months preceding the making of the application,		Yes
(i)	describe the existing or proposed measures, including emergency procedures, to prevent unintended waste water discharges and to minimise the impact on the environment of any such discharges,		Yes
(j)	give particulars of the nearest downstream drinking water abstraction point or points to the discharge point or points,		Yes
(k)	give details, and an assessment of the effects, of any existing or proposed emissions on the environment, including any environmental medium other than those into which the emissions are, or are to be made, and of proposed measures to prevent or eliminate or, where that is not practicable, to limit any pollution caused in such discharges,		Yes
(l)	give detail of compliance with relevant monitoring requirements and treatment standards contained in any applicable Council Directives of Regulations,		Yes
(m)	give details of any work necessary to meet relevant effluent discharge standards and a timeframe and schedule for such work.		Yes
(n)	Any other information as may be stipulated by the Agency.		Yes
<b>Regulation 16(3)</b> <b>Without prejudice to Regulation 16 (1) and (2), an application for a licence shall be accompanied by -</b>		<b>Attachment Number</b>	<b>Checked by Applicant</b>
(a)	a copy of the notice of intention to make an application given pursuant to Regulation 9,		Yes
(b)	where appropriate, a copy of the notice given to a relevant water services authority under Regulation 13,		Yes
(c)	Such other particulars, drawings, maps, reports and supporting documentation as are necessary to identify and describe, as appropriate -		Yes
(c) (i)	the point or points, including storm water overflows, from which a discharge or discharges take place or are to take place, and		Yes
(c) (ii)	the point or points at which monitoring and sampling are undertaken or are to be undertaken,		Yes
(d)	such fee as is appropriate having regard to the provisions of Regulations 38 and 39.		Yes

Regulation 16(4) An original application shall be accompanied by 2 copies of it and of all accompanying documents and particulars as required under Regulation 16(3) in hardcopy or in an electronic or other format as specified by the Agency.		Attachment Number	Checked by Applicant
1	An Original Application shall be accompanied by 2 copies of it and of all accompanying documents and particulars as required under regulation 16(3) in hardcopy or in electronic or other format as specified by the agency.		Yes
Regulation 16(5) For the purpose of paragraph (4), all or part of the 2 copies of the said application and associated documents and particulars may, with the agreement of the Agency, be submitted in an electronic or other format specified by the Agency.		Attachment Number	Checked by Applicant
1	Signed original.		Yes
2	2 hardcopies of application provided or 2 CD versions of application (PDF files) provided.		Yes
3	1 CD of geo-referenced digital files provided.		Yes
Regulation 17 Where a treatment plant associated with the relevant waste water works is or has been subject to the European Communities (Environmental Impact Assessment) Regulations 1989 to 2001, in addition to compliance with the requirements of Regulation 16, an application in respect of the relevant discharge shall be accompanied by a copy of an environmental impact statement and approval in accordance with the Act of 2000 in respect of the said development and may be submitted in an electronic or other format specified by the Agency		Attachment Number	Checked by Applicant
3	2 CD versions of EIS, as PDF files, provided.		Yes
1	EIA provided if applicable		Yes
2	2 hardcopies of EIS provided if applicable.		Yes
Regulation 24 In the case of an application for a waste water discharge certificate of authorisation, the application shall –		Attachment Number	Checked by Applicant
(a)	give the name, address, telefax number (if any) and telephone number of the applicant and the address to which correspondence relating to the application should be sent and, if the operator of the waste water works is a body corporate, the address of its registered office or principal office		Yes
(b)	give the name of the water services authority in whose functional area the relevant waste water discharge takes place or is to take place, if different from that of the applicant,		Yes
(c)	give the location or postal address (including where appropriate, the name of the townland or townlands) and the National Grid reference of the location of the discharge point or points to which the application relates,		Yes
(d)	state the population equivalent of the agglomeration to which the application relates,		Yes
(e)	in the case of an application for the review of a certificate, specify the reference number given to the relevant certificate in the register,		Yes
(f)	specify the content and extent of the waste water discharge, the level of treatment provided and the flow and type of discharge,		Yes
(g)	give details of the receiving water body, its protected area status, if any, and details of any sensitive areas or protected areas, or both, in the vicinity of the discharge point or points or likely to be affected by the discharge concerned,		Yes
(h)	identify monitoring and sampling points and indicate proposed arrangements for the monitoring of discharges and of the likely environmental consequences of any such discharges,		Yes
(i)	in the case of an existing discharge, specify the sampling data pertaining to the discharge based on the samples taken in the 12 months preceding the making of the application,		Yes
(j)	describe the existing or proposed measures, including emergency procedures, to prevent unauthorised or unexpected waste water discharges and to minimise the impact on the environment of any such discharges,		Yes
(k)	give particulars of the location of the nearest downstream drinking water abstraction point or points to the discharge point or points associated with the waste water works,		Yes
(l)	give details of any designation under any Council Directive or Regulations that apply in relation to the receiving waters,		Yes
(m)	give details of compliance with any applicable monitoring requirements and treatment standards,		Yes
(n)	give details of any work necessary to meet relevant effluent discharge standards and a timeframe and schedule for such work,		Yes
(o)	give any other information as may be stipulated by the Agency, and		Yes
(p)	be accompanied by such fee as is appropriate having regard to the provisions of Regulations 38 and 39.		Yes