Comhairle Contae Chorcaí Cork County Council

Co. Cork.
Tel: (022) 21123 • Fax: (022)21983
Email: northcork@corkcoco.ie
Web: www.corkcoco.ie

Annabella, Mallow,

Annabella, Mala,

Co. Chorcaí.

Environmental Protection Agency,
Office of Climate change and resource Unit,
Licensing Unit,
P.O. Box 3000,
Johnstown Castle Estate,
Co. Wexford.

19th June 2009

Fón: (022) 21123 • Faics: (022) 21983

R-phost: northcork@corkcoco.ie mental Protection
Suíomh Gréasáin: www.corkcoco.ie Agency

Waste Licensing

Received 2.2 JUN 2009

Initials

Re: Waste Water Discharge Licence Application for the Agglomeration of Castlelyons

Dear Sir / Madam,

Please find enclosed Cork County Council's Waste Water Discharge Licence Application for the agglomeration of Castlelyons

The following documentation is enclosed:

- 1 Nr. signed original in hardcopy
- 1 Nr. copy in hardcopy
- 2 Nr. CD-ROM with all documentation in electronic searchable PDF
- 1 Nr. CD-ROM with AutoCAD, Excel Data, Table D.2 and Table E.3

The content of the electronic files is a true copy of the original hardcopy.

Payment of €10,000 Licence Fee is by Electronic means.

Signed:

Frank Cronin

Senior Engineer - Water Services

This is a draft document and is subject to revision.



Waste Water Discharge Licence Application Form

EPA Ref. Nº:
(Office use only)

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 Email: info@epa.ie



Tracking Amendments to Draft Application Form

Version No.	Date	Amendment since previous version	Reason
V. 1.	11/10/07	N/A	
V. 2.	18/10/07	Inclusion of a Note 1 superscript for Orthophosphate in Tables D.1(i)(b) & D.1(ii)(b).	To highlight the requirement for filtered samples in measurement of O-Phosphate for waste water discharges.
V.3.	13/11/07	Amend wording of Section F.2 to include 'abstraction'.	To accurately reflect the information required
		Amend wording of Checklist in Annex to reflect wording of Regulation 16(5) of S.I. No. 684 of 2007.	To accurately reflect the Regulations and to obtain the application in appropriate format.
		Inclusion of unique point code for each program water overflow.	To aid in cross-referencing of application documentation.
V.4	18/04/08	Inclusion of requirement to provide of name of agglomeration to which the application relates.	To accurately determine the agglomeration to be licensed.
		Amend wording of Section B.7. (iii) to reflect the title of Water Services Authority.	To accurately reflect the Water Services Act, 2007.
		Addition of new Section B.9 (ii) in order to obtain information on developments yet to contribute to the waste	To obtain accurate population equivalent figures for the agglomeration.
		water works.	To obtain accurate information on design and
		Addition of sub-sections C.1.1 & C.1.2 in order to clarify information required for Storm water overflow and pumping stations	spill frequency from these structures.
		within the works. Amend Section D.1 to include a requirement for monitoring data for influent	To acquire information on the population loading onto the plant and to provide information on performance rates within

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Waste Water Discharge Authorisation Application Form

	1	Г	T.,
		to waste water treatment plants, where available. Amend wording of Section E.1 to request information on composite sampling/flow monitoring provisions.	the plant. To acquire accurate information on the sampling and monitoring provisions for discharges from the works.
V.5	07/07/2008	Amend wording of B.7 (iii) to include reference to Water Services Authorities. Amend Section G.1 to include Shellfish Waters Directive.	To accurately reflect the Water Services Act, 2007 requirements.
V.6	26/08/2007	Amendments to Section D to reflect new web based reporting.	To clarify the reporting requirements.
		Amended requirements for reporting on discharges under E.1 Waste Water Discharge Frequency and Quantities.	
		Amendment to Section F.1 to specify the type of monitoring and reporting required for the background environment.	clarify the reporting requirements for ambient monitoring.
		Removal of Annexes to application form.	To reflect the new web based reporting requirements.

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Environmental Protection Agency Application for a Waste Water Discharge Licence Waste Water Discharge (Authorisation) Regulations 2007.

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ANNEX 1: TABLES/ATTACHMENTS

ANNEX 2: CHECKLIST



ABOUT THIS APPLICATION FORM

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

The Application Form **must** be completed in accordance with the instructions and guidance provided in the Waste Water Discharge Licensing Application Guidance Note. The Guidance Note gives an overview of Waste Water Licensing, outlines the licence 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.

A valid application for a Waste Water Discharge Licence must contain the information prescribed in the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I. No. 684 of 2007). Regulation 16 of the Regulations sets out the statutory requirements for information to accompany a licence 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 in respect of Regulation 16 requirements, please complete the Regulation 16 Checklist provided in Annex 2.

This Application Form does not purport to be 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 quarantee, 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.

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PROCEDURES

The procedure for making and processing of applications for waste water discharge licences, and for the processing of reviews of such licences, appear 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.

Prior to submitting an application the applicant must publish in a newspaper circulating in the area, and erect at the point nearest to the waste water treatment plant concerned or, if no such plant exists, at a location nearest the primary discharge point, a notice of intention to apply. An applicant, not being the local authority in whose functional area the relevant waste water discharge, or discharges, to which the relevant application relates, takes place or is to take place, must also notify the relevant Local Authority, in writing, of their intention to apply.

An application for a licence must be submitted on the appropriate form (available from the Agency) 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 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 licence is an offence under the Waste Water Discharge (Authorisation) Regulations, 2007.

The provision of information in an application for a waste water discharge licence 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: <u>Drawings</u>. The following guidelines are included to assist applicants:

- All drawings submitted should be titled and dated.
- All drawings should have a <u>unique reference number</u> and should be signed by a clearly identifiable person.
- All drawings should indicate a scale and the <u>direction of north</u>.
- 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.

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 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 Nº A.1

SECTION A: NON-TECHNICAL SUMMARY

Castlelyons is situated 3km east of the village of Rathcormack and the historic settlement of Castleyons is approximately 1km away from the village of Bridesbridge. The village is well developed from the point of public services such as a primary school, shops and amenities.

The Waste Water Works and the Activities Carried Out Therein

The wastewater in Castlelyons is collected in a partially combined foul and separate foul sewerage drainage network. The wastewater from the village gravitates to the wastewater treatment plant.

Castlelyons WWTP is designed for a Population Equivalent (PE) of 1,200, which was commissioned in 2007. Activated Sludge is the process employed at the Castlelyons waste water treatment plant. Influent initially gravitates into the inlet works, which consists of an automatic screen, measurement flume and a circular concrete inlet sump, from where the effluent is pumped to an above ground circular aeration tank. The effluent then flows into the adjacent circular clarifier. The solids settle while the supernatant flows over the weir and discharges via the outflow flume to the adjacent stream. Sludge may be returned from the clarifier to the aeration tank and excess sludge is removed from the clarifier as required to the sludge holding tank.

In the event of high storm flows effluent may bypass the plant via the baffle plate at the inlet manhole. During normal storm periods, effluent overflows at the sump to the storm holding tank, which gravities back to the sump after the sump level reduces. In the event of the storm tank fill the screened effluent discharges via the outlet pipe.

Currently the WWTP is receiving flows ranging from 80m³/d to 240m³/d, with an average DWF of 80m³/d entering the plant. Based average hydraulic load of 240l/d/p, the PE equates to 400

Castlelyons WWTP is operated by Cork County Council. The plant is operated by a caretaker who duties also involves the maintenance of a number of other small WWTP's in the area. The caretaker is on duty from 8.00am to 5.30pm Monday – Saturday.

The sources of emissions from the waste water works

The pollution load for the Castlelyons agglomeration arises from the following areas:

- Domestic population
- Commercial premises
- Infiltration

The sewerage from all commercial premises is collected via the public sewer and treated in conjunction with the domestic waste at the WWTP.

Currently the WWTP is receiving flows ranging from 70m³/d to 200m³/d, with an average DWF of 70m³/d entering the plant.

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 final effluent is discharged to the Shanowennadrimina Stream, which is adjacent to the wastewater treatment plant site. The maximum flow to the existing WWTP is in the order of 70m³/d to 200m³/d.

The proposed technology and other techniques for preventing or, where this is not possible, reducing emissions from the waste water works

Technology

The WWTP has a sufficient number of standby pumps, automatic sampler facilities, etc is provided to ensure continuation of the wastewater treatment.

The treatment works consists of the following elements:

- Inlet Works
- Forward Feed Sump
- Aeration Tank
- Clarifer Tank
- Ferric Dosing
- Sludge Holding Tank
- Storm Tank
- Outfall to Shanowennadrimina Stream

Techniques

The new WWTP shall be operated and managed in accordance with the Performance Management System, developed by the Water Service National Training Group (WSMTG).

Further measures planned to comply with the general principle of the basic obligations of the operator, i.e., that no significant pollution is caused

A complete new WWTP was commissioned for the village in 2007, replacing an septic tank at the same site. In addition to the commissioning of the new WWTP, the collection system for the village was also examined with a view to reducing storm egression to the system. Furthermore a second septic tank system located in the village was replaced with a pumping station, which pumps into the sewerage network and on for treatment at Castlelyons WWTP.

There are no further works envisaged to be undertaken on Castlelyons WWTP in the near future.

Measures planned to monitor emissions into the environment

The Cork County Council Environmental Laboratory carries out sampling of the influent and effluent biannually. Sampling, Monitoring and analysis of the wastewater sludge is also undertaken by the Environmental Laboratory.

The Cork County Council Environmental Department located in Mallow takes samples from the River Bride upstream and downstream of the wastewater treatment plant approximately 2 times per year. Samples of the influent and effluent are also taken at these times.

The new wastewater treatment plant is equipped with automatic samplers on the inlet, overflow and outlet lines. The EU Water Framework Directive Monitoring Programme is to be fully operational by the year 2012. This monitoring programme was prepared by the EPA to meet the requirements of the EU Water Framework Directive (2000/60/EC) and National Regulations implementing the Water Framework Directive (S.I. No. 722 of 2003) and National Regulations implementing the Nitrates Directive (S.I. No. 788 of 2005).

List of Attachments include the following:

Location Map Scale 1:50,000Site Location Map of WWTP

• Site Layout

Attachment A1 Map 1 Attachment A1 Map 2 Attachment A1 Map 3

Consent of copyright owner required for any other use.

SECTION B: GENERAL

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

B.1 Agglomeration Details

Name of Agglomeration:	Castlelyons & Environs
------------------------	------------------------

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 licence application relates. It should have the boundary of the agglomeration to which the licence application relates <u>clearly marked in red ink</u>.

Name*:	Cork County Council
Address:	Northern Division
	Annabella
	Mallow
	Co. Cork and
Tel:	022 21123
Fax:	022 21983 <u>art dire</u>
e-mail:	Frank.cronin@corkcoco.je

^{*}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.

Name*:	Frank Cronin
Address:	Northern Division
	Annabella
	Mallow
	Co. Cork
Tel:	022 21123
Fax:	022 21983
e-mail:	Frank.cronin@corkcoco.ie

^{*}This should be the name of person nominated by the water services authority for the purposes of the application.

Co-Applicant's Details

Name*:	Not Applicable
Address:	Not Applicable
Tel:	Not Applicable
Fax:	Not Applicable
e-mail:	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 (authorisation) licence application.

Design, Build & Operate Contractor Details

Name*:	Not Applicable
Address:	Not Applicable
Tel:	Not Applicable
Fax:	Not Applicable
e-mail:	Not Applicable

^{*}Where a design, build & operate contract is in place for the waste water works, or any part thereof, the details of the contractor should be provided.

Attachment B.1 should contain appropriately scaled drawings / maps (≤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
-4.	of other 1	

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.

Name*:	Flan Groarke
Address:	Cork County Council
	Kill St Anne
	Castlelyons 💇
	Co. Cork 💸
Grid ref	184050E 092719N
(6E, 6N)	
Level of	Tertiary
Treatment	
Primary	025-31666
Telephone:	
Fax:	025-32331
e-mail:	Flanna.groarke@corkcoco.ie

^{*}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 (≤A3) of the site boundary and overall site plan, including labelled discharge, monitoring and sampling points. These drawings / maps should also be provided as georeferenced 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
	1	

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.

Type of	225mm diameter outfall pipe from wastewater treatment plant. Open
Discharge	pipe
Unique	SW - 01 CAST
Point Code	
Location	WWTP site Kill St Anne, Castlelyons
Grid ref	184018E 092680N
(6E, 6N)	

Attachment B.3 should contain appropriately scaled drawings / maps (≤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	Me Yes	No
and the same of th	any or V	

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.

Type of	Not Applicable
Discharge	contise .
Unique	Not Applicable
Point Code	
Location	Not Applicable
Grid ref	Not Applicable
(6E, 6N)	• •

Attachment B.4 should contain appropriately scaled drawings / maps (≤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.

Type of	225mm diameter outfall pipe from pumping station. Open pipe
Discharge	
Unique	SW - 02 CAST
Point Code	
Location	Pumping Station site Kill St Anne, Castlelyons
Grid ref	183946E 092905N
(6E, 6N)	

Attachment B.5 should contain appropriately scaled drawings / maps (≤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	only any Yes	No
	1100 ses ditedite √	

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.

Name:	Cork County Council
Address:	Planning Department
	County Hall
	Carriagrohane Road
	Cork
Tel:	021 4276891
Fax:	021 4867007
e-mail:	Planninginfo@corkcoc.ie

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

has been obtained	1	is being processed	
is not yet applied for		is not required	

Local Authority Planning File Reference №:	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
	1	

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.

Within the SFADCo Area	Yes	No
		1

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.

Name:	Health Service Executive
Address:	North Cork Area Headouarters
	Gouldhill in the state of the s
	Mallow, Co. Cork
Tel:	022 30200
Fax:	022 30211
e-mail:	Gerry.oconnel@hse.ie

B.7 (iii) Other Relevant Water Services Authorities

Regulation 13 of the Waste Water Discharge (Authorisation) Regulations, 2007 requires all applicants, not being the water services authority in whose functional area the relevant waste water discharge or discharges, to which the relevant application relates, takes place or is to take place, to notify the relevant water services authority of the said application.

Name:	Not Applicable
Address:	Not Applicable
Tel:	Not Applicable
Fax:	Not Applicable
e-mail:	Not Applicable

Relevant Authority Notified	Yes	No
		V

Attachment B.7(iii) should contain a copy of the notice issued to the relevant local authority.

Attachment included	Yes	No
		1

B.8 Notices and Advertisements

Regulations 10 and 11 of the Waste Water Discharge (Authorisation) Regulations, 2007 require all applicants to advertise the application in a newspaper and by way of a site notice. See *Guidance Note*.

Attachment B.8 should contain a copy of the site notice and an appropriately scaled drawing (\leq A3) showing its location. **The original application must include the original page of the newspaper in which the advertisement was placed**. The relevant page of the newspaper containing the advertisement should be included with the original and two copies of the application.

Attachment included	Yes	No
	et 36°	

B.9 (i) Population Equivalent of Agglomeration

TABLE B.9.1 POPULATION EQUIVALENT OF AGGLOMERATION

The population equivalent (p.e.) of the aggiomeration 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.

Population Equivalent	800
Data Compiled (Year)	2008
Method	Hydraulic Flow
C	

B.9 (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 water habitat.

The current population equivalent being treated at Castlelyons WWTP is 400 based on hydraulic flow assessments.

All developments with granted planning permission and all developments under construction have been included in the agglomeration. The additional p.e due to

the granted planning permissions is estimated to be in the order of 400 p.e. There are currently one recently planning permission in relation to non domestic activities.

With the completion of the recently commissioned 1,200 p.e WWTP the plant shall be capable of accommodating additional hydraulic and organic loading without posing an environmental risk to the receiving water.

B.9 (iii) FEES

State the relevant Class of waste water discharge as per Column 1 of the Second Schedule, 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 €)
	€10,000

Appropriate Fee Included	Yes	No
	Ne.	

B.10 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), 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.

Recently the WWTP and Pumping Station was upgraded at a cost of €0.6 M. These projects were upgraded under the Small Schemes Programme. No further works are listed to be carried out under the current Water Services Investment Programme 2007 -2009

Attachment B.10 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
		1

B.11 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.

Attachment B.11 should contain a summary of any relevant correspondence issued in relation to a Section 63 notice.

Attachment included	Yes	No
		1

B.12 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.

Attachment B.12 should contain the most recent licence issued under the Forsehore 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
		√

Consent of copyright owner required for any other use.

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.1.1 Storm Water Overflows

For each storm water overflow within the waste water works the following information shall be submitted:

- An assessment to determine compliance with the criteria for storm water overflows, as set out in the DoEHLG 'Procedures and Criteria in Relation to Storm Water Overflows', 1995 and any other guidance as may be specified by the Agency, and
- Identify whether any of the storm water overflows are to be decommissioned, and identify a date by which these overflows will cease, if applicable.

C.1.2 Pumping Stations

For each pump station operating within the waste water works, provide details of the following:

- Number of duty and standby pumps at each pump station;
- The measures taken in the event of power failure;
- Details of storage capacity at each pump station;
- Frequency and duration of activation of emergency overflow to receiving waters. Clarify the location where such discharges enter the receiving waters.

Description of Wastewater Treatment Plant Process

Inlet Works

An open flume type flowmeter is installed on the inlet channel leading to the screening and separator unit. An ultrasonic level sensor will also be positioned in this flume to record the flow through the flume. An automatic sampler is also positioned on this inlet channel.

The inlet screen system consists of an EPS Screen Brush, a level probe, a Macerator Pump, an ultrasonic level sensor & a Liquid Separator.

Flow enters the inlet screen chamber, the level of this flow is detected by the level probe, once a predetermined high level is reached the Screen Brush motor will commence operation. This motor will run continuously until the level probe detects a low level. Once this low level is detected the screen brush motor will rotate for one more complete revolution until a parking switch is made, this then stops the motor.

The screenings from the screen brush are collected in the macerator sump, the level in this sump is monitored by an ultrasonic level sensor once a predetermined high level is reached the macerator pump and the Liquid separator will commence operation. These motors will run until the ultrasonic level sensor detects a low level.

Inlet Pump Sump

The screened effluent flows into the Inlet Pump Sump, which is fitted with two submersible pumps operating in duty/standby configuration. Automatic changeover of these pumps will be every 8 hours. The inlet balance tank is fitted with an ultrasonic level sensor which controls the operation of the pumps. The duty pump will start when the sewage reaches a predetermined high level in the sump and cut out at a low level. The pumps are to operate at a constant flowrate when in operation, this is achieved by using VSD's for the pumps and by setting the maximum flow through the flowmeter The flowmeter, is fitted to the pump delivery pipeline from the sump to the Aeration Tank.

Storm Water Tanks

There are two no. 5000 gallon storm tanks on this plant. In the event of the inlet flow into the inlet pump sump exceeds the capacity of the running pumps (i.e. in the event of a Storm) the liquid level in the sump will rise and overflow into storm water holding tank no.1. If the capacity of both storm tanks is exceeded, effluent from the storm tank no will discharge over a weir to the outlet rising main. When the storm abates, the wastewater retained in these tanks will then by gravity flow, return back to the inlet sump through the flap valves. The storm tanks are fitted with two submersible pumps operating in duty/standby configuration. A high level as detected by a float switch will activate the duty storm pump, which will pump screened effluent to the nearby watercourse.

Aeration Tank

Once the effluent enters the Aeration Tank, it is aerated via 2 number air blowers arranged in a duty/standby configuration. If the duty blower fails then the standby blower will automatically start. The duty blower will be selectable from a three-position switch located on the control panel. The switch will select the duty blower in the following manner:

Position 1: Blower 1 duty

Position 2: Blower 2 duty

Position 3: Cycle

The cycle position will allow automatic duty selection, which will select a different blower to run every second day. In normal operation of the plant the duty blower will run continuously

Each blower will be fitted with a VSD. A dissolved oxygen monitor fitted in the aeration tank will control the speed of the blower via the VSD. This monitor will provide the VSD with a 4 – 20mA signal. A potentiometer will be mounted on the panel door to control the speed of the pumps in manual.

Each blower will be fitted with an acoustic hood which c/w 2 no. acoustic hood fans. These fans will start automatically with the blower.

Clarifier Tank

In the normal operation of the plant the clarifier motor will run continuously. A manual stop/start button will be provided at the control panel for the clarifier.

RAS / WAS Chamber

As part of the biological treatment process, sludge drawn from the bottom of the clarifier is recycled back into the aeration tank. Two RAS pumps and two WAS pumps are located in the RAS/WAS Chamber. Flow into the RAS/WAS chamber is controlled by the actuated valve and the ultrasonic level sensor in the RAS/WAS chamber. Once a predetermined low level is detected in the tank by the level sensor, the actuated valve will open and remain open until a predetermined high level is detected and then the valve will close.

The RAS pumps will operate on a duty/standby configuration and will return sludge from the RAS/WAS chamber to the Aeration Tank when the duty inlet pump is operated. If the duty pump fails then the standby pump will automatically start. The duty pump will be selectable from a three-position switch located on the control panel. The switch will select the duty pump in the following manner:

Position 1: Pump 1 duty Position 2: Pump 2 duty

Position 3: Cycle

The cycle position will allow automatic duty selection, which will select a different pump every 8 hours.

The WAS pumps will operate on a duty standby configuration and will waste sludge to the sludge holding tank for 5 minutes every 6 hours, (Exact times to be set during commissioning). If the duty pump fails then the standby pump will automatically start. The duty pump will be selectable from a three-position switch located on the control panel. The switch will select the duty pump in the following manner:

Position 1: Pump 1 duty 🝼

Position 2: Pump 2 duty

Position 3: Cycle

The cycle position will allow automatic duty selection, which will select a different pump after every 8 hours of operation.

Should a low-low level detected by the ultrasonic sensor exist in the chamber, the RAS pumps and the WAS pumps will be inhibited.

Chemical Dosing

Ferric Dosing

The chemical dosing required for treatment will be introduced to the stream at the primary settlement tank via the Ferric Dosing pumps, which operate on a duty/standby basis. The dosing pumps are flow proportional and will be controlled by the flowmeter on the inlet line from the inlet balance tank pump.

Final Effluent

This final effluent prior to discharge to the outfall is subject to outflow measurement and sampling. Another open flume type flowmeter installed on the gravity flow outlet main, provides flow measurement. An ultrasonic level sensor will also be positioned in this flume. An automatic sampling unit provides sampling.

General Description of Pumping Station

Coordinates: 183944E 092952N

Raw effluent from combined sources flows into the 1.9metre diameter, 3 metre deep Pump Sump located upstream, of the new treatment plant.

The sump is fitted 2No submersible pumps operating in duty/standby configuration. Each pump is provided with a hand off auto key on its respective starter. Selecting auto control will enable control by the U/S, provided the following conditions apply;

- Starter is powered up.
- Local emergency stoppis not operated.
- Motor protection devices are not operated.

In automatic operation, in the event that the duty pump fails, the standby pump shall be started automatically, provided both pumps are selected to auto and available for operation.

Automatic changeover of the duty pumps will be every 8 hours. The inlet pumping sump is fitted with an ultrasonic level sensor which controls the operation of the pumps. The control set points are as follows;

Set point 1 Cut in of Duty Pump

Set point 2 Cut out of Duty Pump

Set point 3 High level alarm

A low level float switch will activate a low level alarm and cut out the pumps. If the high or low level alarms are activated, an orange beacon will flash on the control kiosk and a text message will be sent to the curator, stating the fault. Should the fault persist, effluent will overflow at a high level to the Shanowennaorimina Stream.

Flowmeter will monitor both instantaneous and totalised flows from the pump station.

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.

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Attachment included	y of Yes	No
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C.2 Outfall Design and Construction

Provide details on the primary discharge point & secondary discharge points and storm overflows to include references location, design criteria and construction detail.

Primary Discharge Point, SW 01 Castlelyons

Type of	225mm diameter concrete outfall pipe from wastewater treatment plant.
Discharge	Open pipe
Unique	SW - 01 CAST
Point Code	
Location	WWTP site Kill St Anne castlelyons.
Grid ref	184018E 092680N
(6E, 6N)	

The primary discharge point, SW-01 Castlelyons, is the main outlet from Castlelyons Wastewater Treatment Plant. The outlet runs in a westerly direction of approximately 50m from the plant site. The point of discharge is a 225mm open ended pipe which discharges to the Shanowennadrimina Stream.

Storm Water Overflow Point, SW-02 Castlelyons

Storin Water	evernow round, SW 62 casticiyons
Type of	225mm diameter outfall pipe from pumping station. Open pipe
Discharge	
Unique	SW - 02 CAST
Point Code	
Location	Pumping Station site Kill St Anne, Castlelyons
Grid ref	183946E 092905N
(6E, 6N)	

The secondary discharge point, SW-02 Castlelyons, is a 225mm uPVC overflow pipe. The outlet from the pumping station runs in a westerly direction for a distance of 20m to the Shanowennadrimina Stream.

Attachment C.2 should contain any supporting documentation on the design and construction of <u>any and all</u> discharge outfalls, including stormwater overflows, from the waste water works.

Attachment included	Yes	No
		1

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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 emissions are made or are to be made.

Details of all discharges of waste water from the agglomeration should submitted web via the following based http://78.137.160.73/epa wwd licensing/. The applicant should address in particular all discharge points where the substances outlined in Tables D.1(i), (b) & (c) and D.1(ii), (b) & (c) of Annex 1 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

Discharges to Surface Waters of all discharges Details of all discharges of waste water from the agglomeration should be supplied the (Willowing web based http://78.137.160.73/epa_wwd_licensing/. Tables D.1(i)(a), (b) & (c), should be completed for the primary discharge point from the agglomeration and Tables D.1(ii)(a), (b) & (c) should be completed for **each** secondary discharge point, where relevant. Table Datiii)(a) should be completed for each storm water overflow. <u>Individual Tables must be completed for each discharge point.</u>

Where monitoring information is available for the influent to the plant this data should also be provided in response to Section D.1.

Supporting information should form **Attachment D.1**

Attachment included	Yes	No

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
SW-01 - CAST	Primary	Cork County Council	Stream	Shanowennadrimina	U/S of Salmonid River	184018	092680
SW-02 -CAST	Storm	Cork County Council	Stream	Shanowennadrimina	U/S of Salmonid River	183946	092905

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. 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.

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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 E.1(i) via the following web based link: 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 E.1(ii) via the following web based link: 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 meters.

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 emission and its effect on the receiving environment should be considered.

Lab Sampling and testing is done in accordance with 'Sampling Methods for examination of water and wastewater' 18th edition 1992.

Lab Sampling and testing is done in accordance with 'Sampling Methods for examination of water and wastewater' 18th edition 1992.

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

Attachment included	Yes	No
		V

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
SW01	Primary	SAMPLING	184050	092719	N
aSW01u	u/s	Sampling	183503	093556	N
aSW01d	d/s	Sampling	184141	092247	N

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. 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 16(1)(h) of the Waste Water Discharge (Authorisation) Regulations 2007 requires all applicants in the case of an existing waste water treatment plant 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 16(1)(I) of the regulations requires applicants to give details of compliance with any applicable monitoring requirements and treatment standards.

Attachment E.4 should contain any supporting information.

Attachment included	Yes	No
Co	1	

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

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

Detailed 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).

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. Assessment of Impact on Receiving Surface or Ground Water

- o Give summary details and an assessment of the impacts of any existing or proposed emissions on the environment, including environmental media other than those into which the emissions are to be made.
- Details of all monitoring of the receiving water should be supplied via the following web based link: <a href="http://www.http://www
- o For discharges from secondary discharge points Tables F.1(ii)(a) & (b) should be completed. Furthermore, provide summary details and an assessment of the impacts of any existing or proposed emissions on the surface water or ground (aquifers, soils, sub-soils and rock environment), including any impact on environmental media other than those into which the emissions are to be made.
- Provide details of the extent and type of ground emissions at the works. For larger discharges to groundwaters, e.g., from Integrated Constructed Wetlands, large scale percolation areas, etc., a comprehensive report must be completed which should include, inter alia, topography, meteorological data, water quality, geology, hydrology, hydrogeology. The latter must in particular present the aquifer classification and vulnerability. The Geological Survey of Ireland Groundwater Protection Scheme Dept of the Environment and Local Government, Geological Survey of Ireland, EPA (1999) methodology should be used for any such classification. This report should also identify all surface water bodies and water wells that may be at risk as a result of the ground discharge.

- 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.
- o 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.
- o In circumstances where water abstraction points exist downstream 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/EEC¹ 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/EEC²;
 - ¹Council 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)
 - ²Council Directive 79/409/EEC of 2 April 1979 on the conservation of wild birds (OJ No. L 103, 25.4.1979)

- Describe, where appropriate, measures for minimising pollution over long distances or in the territory of other states.
- This section should also contain full details of any modelling of discharges from the agglomeration. Full details of the assessment and any other relevant information on the receiving environment should be submitted as **Attachment F.1.**

The plant is performing satisfactorily at present and operating within the requirements of the following legislation. As the plant and the pumping station has been recently upgraded there are no improvements planned at present for the Castlelyons Wastewater Treatment Plant.

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 or 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 Shanowennadrimina Stream is included in the SWRBD. 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 &cilitate 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

The SWRBD has proposed water quality standards for the Shanowennadrimina Stream under a water quality / catchments management plan. This water body has been given Moderate status. As there is no chemical or biological monitoring data

available for this river the status has been extrapolated from nearby waterbodies with similar attributes.

The River Basin Management System currently being developed will include a programme of measures and a River Basin Management Strategy, designed to achieve at least good status for all waters by 2015, and to maintain high status where it exists. Therefore discharges from Castlelyons Wastewater Treatment Plant cannot cause deterioration in good water quality under the Water Framework Directive at present.

The Shanowennadrimina Stream is not a designated Shellfish area under the Shellfish Waters Regulations, S.I.200 of 1994. The River Blackwater, into which the River Bride flows, is also not designated under these regulations. The Shanowennadrimina Stream is a tributary of the River Bride.

The Shanowennadrimina Stream is not designated a Salmonid Water under Salmonid Water Regulations, S.I. 293 of 1988, however the River Bride and River Blackwater which the Shanowennadrimina Stream joins, is designated Salmonid Water under Salmonid Water Regulations, S.I. 293 of 1988.

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

The Shanowennadrimina Stream is not a designated Sensitive Area under the Urban Wastewater Treatment Regulations 2001 (S. 254 of 2001). The River Blackwater downstream of Mallow Railway to Banyduff Bridge is a designated Sensitive Area. This is not within 2km of any discharge point from Castlelyons Wastewater Treatment wastewater works.

Water is not abstracted from the Shapowennadrimina Stream.

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 Blackwater River cSAC (Site Code: 002170) is very large, extending from the tidal estuary of the river at Youghal Co. Cork to the upper tributaries and their flood plains, in Cos. Cork Kerry, Limerick, Tipperary and Waterford, including the Awbeg River is a designated Special Area of Conservation.

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. Many of these are estuarine habitats and species found only in the lower reaches of the River Blackwater, however a number may be present in the Awbeg River section of the cSAC including, for example the Annex 1 habitats, 'alluvial wet woodlands', 'floating river vegetation', and 'old oak woodlands'; and the Annex 2 species sea lamprey, river lamprey, brook lamprey, Atlantic salmon, freshwater pearlmussel and otter.

The Blackwater River Site Synopsis is included in this attachment.

Natural Heritage Areas

The Awbeg River does flow through a Proposed Natural Heritage Areas (NHA). Natural Heritage Areas are the basic designation for wildlife. An NHA is an area considered important for the habitats present or which holds species of plants and animals whose habitat needs protection.

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 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 Shanowennadrimina Stream. There are areas of the River Blackwater that are designated SPAs, however these are located downstream of Fermoy and therefore greater than 2km from all discharge points.

Receiving Water Quality Requirement

Water Quality analysis data for the Shanowennadrimina Stream was obtained from Cork County Council. There are no EPA stations along the Shanowennadrimina Stream, however the EPA takes samples from a number of locations along the River Bride, up stream and downstream of the confluence of the Shanowennadrimina Stream and River Bride. These stations are the flowing:

- Br South of Rathcormack 4.8km upstream of the confluence of the rivers
- 0.3Km d/s Bride Bridge RHS (LHS) 500m Downstream of the confluence of the rivers

The confluence of the Shanowennadrimina Stream and River Bride is approximately by 1.25km

Table F1-1: Biological Quality Rating for River Bride – Upstream & Downstream of of Confluence of the River Bride & Shanowennadrimina Stream

Sampling Location	EPA Biological Quality Rating (Q values)			
	1995 -1997	2001 - 2003	Target	
Br South of Rathcormack	4	4	4	
0.3Km d/s Bride Bridge RHS (LHS)	4 (3-4)	4 (3-4)	4 (4)	

The Royal Commission in its report on Water Quality Guidelines recommends that "in all circumstances effluent discharges which are calculated to raise the BOD of the receiving water, outside the mixing zone, by more than 1 mg/l should be discouraged". The average existing background level for BOD is estimated at 1mg/l. Therefore the receiving water limiting value for BOD for this river is 2mg/l.

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 3 below: -

Table F1-2: Receiving Water Quality Limiting Values

Parameter	Water Quality Standard (mg/l)
Chromium	30
Copper	30
Lead	10
Nickel	50
Zinc	100

Based on Hardness of receiving waters >100mg/I CaCO3

Effluent Standards

The treated effluent quality requirements shown in the table below are determined with respect to the EC Urban Wastewater Directive, given effect in Irish Law by S.I.254 of 2001.

Table F1-3: Minimum Effluent Standards based on S.I.254 of 2001 and Recorded Effluent Concentrations

Parameter	Effluent Standards	Actual Concentrations* (mg/l)
Biological Oxygen Demand (BOD)	25 Rund difference	5.135
Suspended Solids (SS)	35 cctt will the	24.67

*Actual Concentration is the average effluent concentrations recorded at the outlet of the WWTP by Cork County Council Wastewater Laboratory during the period Sept '08 to Feb '09.

From Table 3 above, it sevident that treated effluent from the Castlelyons wastewater treatment plant is compliant with the quality of effluent standards set out in the above legislation.

a) Mass Balance Equation for Orthophosphate:

Median flow of River = 0.27sec Median oPO₄-P in River (upstream) = 0.056mg/L

Average volume of discharge = $0.002 \text{ m}^3/\text{sec}$ Median value for oPO₄-P in discharge = 4.11mg/l

$$C_{final} =$$
 (.27 x .056) + (0.002 x 4.11)
0.27 + 0.002

$$C_{final} = 0.086 \text{ mg/L oPO}_4-P$$

The increase in Orthophosphate due to the discharge is 0.03 mg/L

b) <u>Mass Balance Equation for BOD:</u>

Flow of River (95%) = 0.057 m³/sec Average BOD in River (upstream) = 2 mg/L

Average volume of discharge = $0.002 \text{ m}^3/\text{sec}$ Average BOD in discharge = 5.135 mg/L

$$C_{final} =$$
 $(0.057 \times 2) + (0.002 \times 5.135)$ $0.057 + 0.002$

 $C_{final} = 2.11 \text{ mg/L BOD}$

The increase in BOD due to the discharge is 0.00 mg/L.

c) Mass Balance Equation for Suspended Solids:

Flow of River (95%) = 0.057 m³/sec Average Suspended Solids in River (upstream) = 13.67mg/L

Average volume of discharge = 0.002 m³/sec Average Suspended Solids in discharge = 24.67 mg/L

$$C_{\text{final}} = \frac{(0.057 \times 13.67) + (0.002 \times 24.67)}{0.057 + 0.002}$$

C_{final} = 14.04 mg/L Suspended Solids

The increase in Suspended Solids due to the discharge is 0.37 mg/L.

d) <u>Mass Balance Equation for Total Phosphate:</u>

50% Median flow of River = $0.27 \text{ m}^3/\text{sec}$ Median TPO₄-P in River (upstream) = 0.13 mg/L

Average volume of discharge = $0.002 \text{ m}^3/\text{sec}$ Median TPO₄-P in discharge = 5.825 mg/L

$$C_{final} = \frac{(0.27 \times 0.13) + (0.002 \times 5.825)}{0.27 + 0.002}$$

 $C_{final} = 0.17 \text{ mg/L TPO}_4-P$

The increase in Total Phosphate due to the discharge is 0.04mg/L

e) Mass Balance Equation for Total Nitrogen:

Flow of River (95%) = 0.057 m³/sec Average Total Nitrogen in River (upstream) = 4.23mg/L

Average volume of discharge = 0.002 m³/sec Average Total Nitrogen in discharge = 36.75 mg/L

$$C_{\text{final}} = \frac{(0.057 \times 4.23) + (0.002 \times 36.75)}{0.057 + 0.002}$$

 $C_{final} = 5.33 \text{ mg/L Total Nitrogen}$

The increase in Total Nitrogen due to the discharge is 1.10 mg/L.

f) Mass Balance Equation for Sulphate:

Flow of River (95%) = 0.057 m³/sec Average Sulphate in River (upstream) = 30 mg/L

Average volume of discharge = 0.002 m³/sec Average Sulphate of discharge = 49.4 mg/L

Average Sulphate in River (downstream) = 30 mg/L

$$C_{\text{final}} = \frac{(0.057 \times 30) + (0.002 \times 49.4)}{0.057 + 0.002}$$

 $C_{final} = 30.66 \text{mg/L Sulphate}$

The increase in Sulphate due to the discharge is 0.66mg/L.

Mass Balance Equation for Ammonia-N: g)

Flow of River $(95\%) = 0.057 \text{m}^3/\text{sec}$ Average Ammonia-N in River (upstream) = 0.067 mg/L

Average volume of discharge = $0.002 \text{ m}^3/\text{sec}$ Average Ammonia-N in discharge = 2.38 mg/L

Average Ammonia-N in River (downstream) = 0.067mg/L

$$C_{final} = \frac{(0.057 \times 0.067) + (0.002 \times 2.38)}{0.057 + 0.002}$$

 $C_{final} = 0.14 \text{ mg/L Ammonia}$

The increase in Ammonia due to the discharge is 0.073mg/L.

Assimilative Capacity Calculations were moter performed for the following parameters, as the substances were below the limit of detection in the upstream samples, in the discharge samples and in the downstream samples:

- Chromium (a)
- (b) Copper
- (c) Lead
- Nickel (d)
- Cadmium Cons (e)
- Barium (f)
- Boron (g)
- (h) Zinc
- (i) Fluoride

Discharges in proximity of Wastewater Works

Water quality analysis data presented in Tables 4 & 5 below was recorded by Cork County Council wastewater laboratory and covers a sampling period from Dec 2008 to Jan 2009.

Table F1-4: Upstream Water Quality

Parameter	Upstream Monitoring Station			
rarameter	10/12/08 06/01/09 20/01/09			
Ph	7.7	7.6	7.4	
BOD	2	1	1	
SS	12	11	18	

Ammonia	0.05	0.05	0.025
Ortho-	0.025	0.07	0.07
Phosphate			

Table F1-5: Downstream Water Quality

Parameter	Downstream Monitoring Station		
	10/12/08	06/01/09	20/01/09
Ph	7.7	7.9	7.5
BOD	2	1	1
SS	7	6	16
Ammonia	0.05	0.05	0.025
Ortho- Phosphate	0.025	0.06	0.08

The data in the above tables confirms the wastewater discharge has little effect on the overall river quality.

Appropriate Assessments

The development is in the surface water catchment of the River Blackwater, SAC 002170. In accordance with EPA Circular L8/08 Appendix 1, the project must be screened for its impacts. However, due to financial constraints, Cork County Council does not have the resources for the foreseable future to assess the impacts in accordance with the EPA document, Waste Water discharge Licence – Appropriate Assessment'.

Attachment included	gection net	Yes	No
	GOT ITISPITE	1	

F.2 Tabular Data on Orinking 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.

ABS_CD	AGG_SERVED	ABS_VOL	PT_CD	DIS_DS	EASTING	NORTHING	VERIFIED
Not	Not Applicable	Not	Not	Not Applicable	Not	Not Applicable	Not
Applicable		Applicable	Applicable		Applicable		Applicable

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. 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.

There are no drinking water abstraction points downstream or downgradient of the discharge point.

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 (79/923/EEC).

The plant is operating satisfactory at present and is operating within the requirements of the relevant legislation, outlined above. Recent improvements include the construction and commissioning of the new 1,200 PE WWTP and pumping station.

Water Framework Directive 2000/60/EC

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 or 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 South Western River Basin District 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

The EPA also takes samples from one location along the River Bride upstream & downstream of the confluence of the rivers. These are located at the following:

- Bridge South of Rathcormack
- 0.3km d/s Bride Bridge

Table G1-1: Upstream Water Quality

Parameter	Upstream Monitoring Station		
	10/12/08	06/01/09	20/01/09 💉
Ph	7.7	7.6	7.4
BOD	2	1	1 only all
SS	12	11	18 20 0
Ammonia	0.05	0.05	0.025
Ortho-	0.025	0.07	0.07
Phosphate		EDECK ON	, Control of the Cont

Table G1-2: Downstream Water Quality

		alle	
Parameter	Downstream Monitoring Station		
	10/12/08	06/01/09	20/01/09
Ph	7.7	7.9	7.5
BOD	2	1	1
SS	7	6	16
Ammonia	0.05	0.05	0.025
Ortho- Phosphate	0.025	0.06	0.08

The data in the above tables confirms the wastewater discharge has little effect on the overall river quality.

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 Shanowennadrimina Stream. There are areas of the River Blackwater which are designated SPAs however these are located downstream of Fermoy and therefore, greater than 2km from all discharge points.

Groundwater Directives 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.

Coolroe (Fermoy) is the closest PWS that utilise ground water for medium sized water supplies. This located approximately 10km.

With the proper mitigation measures in place the operation of the wastewater treatment plant does not have any significant negative impacts on the existing groundwater.

Drinking Water Directives 80/778/EEC

There are no areas along the Shanowennadrimina Stream or River Blackwater downstream of Castlelyons WWTP designated for the abstraction of water intended for human consumption.

Urban Waste Water Treatment Directive 917271/EEC

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

Article 4(1)(c) states that "In the case of urban wastewater entering collecting systems, a sanitary authority shall provide treatment plants, which provide for secondary treatment or an equivalent treatment by 31 December 2005 in respect of all discharges to freshwaters and estuaries from agglomerations with a population equivalent of between 2,000 and 10,000."

The Castlelyons Wastewater Treatment Plant was commissioned in 2006 and was designed to treat effluent to a 25/35ppm standard.

The Second Schedule (Part 1) of the 2001 Regulations states that effluent should be treated to the following standards.

Table G1-3: Minimum Effluent Standards based on SI 254 of 2001

Parameter	Conc. (mg/l)	Minimum Percentage of Reduction
Biochemical Oxygen Demand (BOD)	25	70 - 90
Chemical Oxygen Demand (COD)	125	75
Suspended Solids	35	90

The aeration and clarifying plant at the new Castlelyons wastewater treatment plant is treating effluent to a high standard. Efficiencies of BOD, COD and SS

removal for the plant is typically in excess of 85%. The effect of the discharges on the quality of the receiving waters is assessed in Attachment F1.

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 Shanowennadrimina Stream is not a designated Sensitive Area. The River Blackwater downstream of Mallow Railway Bridge to Ballyduff Bridge is designated a Sensitive Area. This is not within 2km of any discharge point form the Castlelyons wastewater treatment works.

The Fifth Schedule of the 2001 Regulations gives a methodology for monitoring the final effluent from the wastewater treatment plant. Item 3 states "The minimum annual number of samples shall be determined according to the size of the treatment plant and be collected at regular intervals during the year." For a PE of between 2000-9999 4 samples should be taken each year. Cork County Council wastewater laboratory carries out regular testing at the outlet of the treatment plant.

Shellfish Directive 79/923/EEC

The Shanowennadrimina Stream is not a designated Shellfish Area under the Shellfish Waters Regulations, S.I. 200 of 1994. The River Blackwater, into which the River Bride flows (after joining the Shanowennadrimina Stream), is also not designated under these regulations.

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 (National Habitats) Regulations, 1997.

The Blackwater River cSAC (Site Code: 002170) is very large, extending from the tidal estuary of the river at Youghal Co. Cork to the upper tributaries and their flood plains, in Cos. Cork Kerry, Limerick, Tipperary and Waterford.

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.

The Blackwater River Site Synopsis is included in this attachment.

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.

Cork County Council Wastewater Laboratory carries out monitoring of the effluent from the wastewater treatment plant on a regular basis.

Failure to meet the specified treated effluent standards may result in final penalties to Cork County Council. As a result, the risk of environmental pollution from the treatment plant may be reduced.

Bathing Water Directive 76/160/EEC

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

Dangerous Substances Directive 2006/11/EC

The level of dangerous substances in both the effluent discharged from Castlelyons wastewater treatment plant and the river itself is significantly lower than the concentration limits set in the directive.

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
	1	

G.2 Compliance with Water Quality Standards for Phosphorus Regulations (S.I. No. 258 of 1998).

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 whiter the Water Quality Standards for Phosphorous Regulations (S.I. No. 258 of 1998) 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 identified as the principal sources of pollution under the P regulations.

Receiving Water Quality Requirement based on Phosphorus Regulations 2008

The effluent arising from the WWTP is discharge to the Shanowennadrimina Stream, which flows adjacent to the WWTP site boundary. The Shanowennadrimina Stream is a tributary of the River Bride which is a tributary of the Blackwater River (Munster).

The EPA do not have any stations along the Shanowennadrimina Stream, however they have a number stations on the River Bride upstream and downstream of the confluence of the two water bodies.

Effluent Standards

The treated effluent quality requirements are determined with respect to the EC Urban Wastewater Directive, given effect in Irish Law by S.I.254 of 2001. The wastewater treatment processes should reduce nutrients in the final effluent. The minimum effluent standard based on S.I.254 of 2001 for Phosphorus in wastewater effluent is 2mg/l.

As a natural consequence of secondary treatment, there will be an uptake of phosphorous for biomass synthesis at the wastewater treatment plant in

Castlelyons. This is evident from Tables 3 &4 below showing the uptake of phosphorus through the wastewater treatment plant.

Table G2-3: Phosphorus Levels in Influent to WWTP

Parameter	Inlet Monitoring Station		
	20/1/09 19/2/09		
Ortho-Phosphate	0.07	0.025	

Table G2-4: Phosphorus Levels in Effluent from WWTP

Parameter	Outlet Monitoring Station			
	20/1/09 19/2/09			
Ortho-Phosphate	0.08	0.025		

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
	other	1

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.

Recently the WWTP and Pumping Station was upgraded at a cost of €0.6 M. These projects were upgraded under the Small Schemes Programme. No further works are listed to be carried out under the current Water Services Investment Programme 2007 -2009

With these recent improvements to the WWTP and pumping station it will ensure that discharges from the agglomeration will not result in significant environmental pollution.

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
		V

G.4 Storm Water Overflow

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.

There are programme of improvements planned on the Storm Overflows within the Agglomeration.

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
		1

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SECTION H: DECLARATION

Declaration

I hereby make application for a waste water discharge licence/revised licence, 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.

DIRECTOR

Signed by : (on behalf of the organisation)

Print signature náme: _

Position in organisation:

SECTION I: JOINT DECLARATION

Joint Declaration Note1

I hereby make application for a waste water discharge licence/revised licence, 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.

Lead Authority	aritie.
Signed by :	Date :
(on behalf of the organisation)	Soll of all
Print signature name:	wifed .
ecition Verse	,
Position in organisation:	
FORVITE	
Co-Applicants	
Signed by :	Date :
(on behalf of the organisation)	
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Position in organisation:	
Signed by :	Date :
(on behalf of the organisation)	
Print signature name:	
Position in organisation:	

Note 1: In the case of an application being lodged on behalf of more than a single water services authority the following declaration must be signed by all applicants.

Castlelyons & Environs WWDL Application

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ANNEX 1: TABLES / ATTACHMENT

Attachment	Description
A1 Map 1	1:50,000 Location Map
A1 Map 2	Site Location of WWTP & Pumping Stations
A1 Map 3	Wastewater Treatment Plant – Site Layout
B1 Map 4	Agglomeration
B2 Map 5	Layout of Waste Water Treatment Plant
B3 Map 6	Location of Primary Discharge Point SW01 CAST
B3 Map 7	Location of Sampling Points
B4	Not Applicable
B5 Map 8	Location of Storm Water Overflow Point SW02 CAST
B6	Part VIII Planning
B7	Not Applicable
B8 Map 9	Location of Site Notice
B8	Notice & Advertisement
B10	Not Applicable
B 11	Not Applicable
B 12	Not Applicable
C1 Map 10	Layout Wastewater Treatment Plant
C1 Drg 1	Schematic of Wastewater Treatment Plant
C2	Not Applicable 200600
D1	Not Applicable
Section D2	Not Applicable Not Applicable Discharge Points Not Applicable Monitoring & Sampling Points
E2	Not Applicable work and the second se
Section E3	Monitoring & Sampling Points
E4	Sampling results
F1	Draft River basin Management Plan for the SWRBD
	SAC Blackwater River Site Synopsis
F2	Not Applicable
G1	SAC Blackwater River Site Synopsis
G2	Not Applicable
G3	Not Applicable
G4	Not Applicable

Agglomeration details

Leading Local Authority Co-Applicants	Cork County Council
Agglomeration	Castlelyons
Population Equivalent	800
Level of Treatment	Tertiary
Treatment plant address	Castlelyons WWTP Kill St Anne South, Castlelyons, Fermoy
Grid Ref (12 digits, 6E, 6N)	184018 / 092680
EPA Reference No:	

Contact details

Contact Name:	Frank Cronin		
Contact Address:	Water Services Sections Cork County Councils Northern Division and Anabella Mallow Co. Corketted the		
Contact Number:	022-21128		
Contact Fax:	022-24983		
Contact Email:	Frank.Cronin@corkcoco.ie		

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

Discharge Point Code: SW-1

Local Authority Ref No:	SW-01		
Source of Emission:	Castlelyons Wastewater Treatment Plant		
Location:	Kill St Anne South, Castlelyons		
Grid Ref (12 digits, 6E, 6N)	184018 / 092680		
Name of Receiving waters:	Shannowenadrimina Stream		
Water Body:	River Water Body		
River Basin District	South Western RBD		
Designation of Receiving Waters:	u/s of Salmonid River		
Flow Rate in Receiving Waters:	0.03 m³.sec-1 Dry Weather Flow		
	0.057 m³.sec-1 95% Weather Flow		
Additional Comments (e.g. commentary on zero flow or other information deemed of value)	Upstream at Doctors Bridge Downstream at Aghnagearagh Bridge		

Emission Details:

(i) Volume emitted		Š	ner		
Normal/day	160 m³	Maximum/day and	480 m ³		
Maximum rate/hour	20 m³	Period of emission (avg)	60 min/hr	24 hr/day	365 day/yr
Dry Weather Flow	0.002 m³/sec	ction per le			
	Consent	For ite of the or			

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

Discharge Point Code: SW-1

Substance	As discharged				
	Unit of Measurement	Sampling Method	Max Daily Avg.	kg/day	
pН	рН	24 hr composite	= 9		
Temperature	°C	24 hr composite	= 30		
Electrical Conductivity (@ 25°C)	μS/cm	24 hr composite	= 1000		
Suspended Solids	mg/l	24 hr composite	= 35	16.8	
Ammonia (as N)	mg/l	24 hr composite	= 0	0	
Biochemical Oxygen Demand	mg/l	24 hr composite	= 25	12	
Chemical Oxygen Demand	mg/l	24 hr composite	= 125	60	
Total Nitrogen (as N)	mg/l	24 hr composite	= 15	7.2	
Nitrite (as N)	mg/l	24 hr composite	= 0	0	
Nitrate (as N)	mg/l	24 hr composite	= 0	0	
Total Phosphorous (as P)	mg/l	24 hr composite	= 2	1	
OrthoPhosphate (as P)	mg/l	24 hr composite	= 1.7	0.82	
Sulphate (SO ₄)	mg/l	24 hr composite	= 0	0	
Phenols (Sum)	μg/l	24 hr composite	= 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. of the filter paper for Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent. The 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: SW-1

Substance	As discharged				
	Unit of Measurement	Sampling Method	Max Daily Avg.	kg/day	
Atrazine	μg/l	24 hr composite	= 0	0	
Dichloromethane	μg/l	24 hr composite	= 0	0	
Simazine	μg/l	24 hr composite	= 0	0	
Toluene	μg/l	24 hr composite	= 0	0	
Tributyltin	µg/l	24 hr composite	= 0	0	
Xylenes	μg/l	24 hr composite	= 0	0	
Arsenic	μg/l	24 hr composite	= 0	0	
Chromium	µg/l	24 hr composite	= 0	0	
Copper	μg/l	24 hr composite	= 0	0	
Cyanide	μg/l	24 hr composite	= 0	0	
Flouride	μg/l	24 hr composite	= 0	0	
Lead	μg/l	24 hr composite	= 0	0	
Nickel	µg/l	24 hr composite	= 0	0	
Zinc	µg/l	24 hr composite	= 0	0	
Boron	µg/l	24 hr composite	= 0	0	
Cadmium	μg/l	24 hr composite	= 0	0	
Mercury	μg/l	24 hr composite	= 0	0	
Selenium	μg/l	24 hocomposite	= 0	0	
Barium	μg/l	24 hr composite	= 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.

Table D.1(iii)(a): EMISSIONS TO SURFACE/GROUND WATERS (Storm Overflow)

Discharge Point Code: SW-2

	1
Local Authority Ref No:	SW-02 CAST
Source of Emission:	Emergency overflow at Pumping Station
Location:	Kill St Anne South Pumoing Station
Grid Ref (12 digits, 6E, 6N)	183946 / 092905
Name of Receiving waters:	Sanowennadrimina
Water Body:	River Water Body
River Basin District	South Western RBD
Designation of Receiving Waters:	u/s of Salmoid River
Flow Rate in Receiving Waters:	m³.sec-¹ Dry Weather Flow
	m³.sec-1 95% Weather Flow
Additional Comments (e.g. commentary on zero flow or other information deemed of value)	

Emission Details:

(i) Volume emitted		A4. 94	Yothe		
Normal/day	m³	Maximum/day	m³		
Maximum rate/hour	m³	Period of emission (avg)	min/hr	hr/day	day/yr
Dry Weather Flow	m³/sec	aectio minei			
	Collect	For July 1			

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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 (m³/annum)
SW-1	365	58400



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

Identification Code for Discharge point	Frequency of discharge (days/annum)	Complies with Definition of Storm Water Overflow
SW-2		No

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TABLE F.1(i)(a): SURFACE/GROUND WATER MONITORING

Primary Discharge Point

Discharge Point Code:	SW-1
MONITORING POINT CODE:	aSW-1d
Grid Ref (12 digits, 6E, 6N)	184141 / 092247

Parameter	Results (mg/l)				Sampling method	Limit of Quantitation	Analysis method / technique
	24/09/08	09/10/08	10/12/08	01/01/09			
рН			= 7.7		Grab	2	Electrochemic al
Temperature				= 0	Grab	0.5	Electrochemic al
Electrical Conductivity (@ 25°C)			= 314		Grab	0.5	Electrochemic al
Suspended Solids			= 7		Grab	0.5	Gravimetric
Ammonia (as N)			< 0.1		Grab	0.02	Colorimetric
Biochemical Oxygen Demand			= 2		Grab	0.06	Electrochemic al
Chemical Oxygen Demand			< 21	چ.	Grab	8	Digestion & Colorimetric
Dissolved Oxygen				= 0	Grab	0	ISE
Hardness (as CaCO ₃)				= 0 0101	Grab	0	Titimetric
Total Nitrogen (as N)			< 1 0.010 cm = 0.010 cm = 8.85 cm = 8.85 cm = 1.00 cm =	10, 30,	Grab	0.5	Digestion & Colorimetric
Nitrite (as N)			= 0.0105.00	>	Grab	0.013	Colorimetric
Nitrate (as N)			= 8.65 (1)		Grab	0.04	Colorimetric
Total Phosphorous (as P)		, e	TO THE POST OF		Grab	0.2	Digestion & Colorimetric
OrthoPhosphate (as P)	< 0.05	< 0.05	< 0.05		Grab	0.02	Colorimetric
Sulphate (SO ₄)		Forhite	< 30		Grab	30	Turbidimetric
Phenols (Sum)		× 00/4	< 0.1		Grab	0.1	GC-MS 2

For Orthophosphate: this monitoring should be widertaken 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 used where results are not available

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Parameter	Results (mg/l)		Sampling method	Limit of Quantitation	Analysis method / technique	
	06/01/09	20/01/09	19/02/09			
рН	= 7.9	= 7.5		Grab	2	Electrochemic al
Temperature				Grab	0.5	Electrochemic al
Electrical Conductivity (@ 25°C)	= 333	= 326		Grab	0.5	Electrochemic al
Suspended Solids	= 6	= 16		Grab	0.5	Gravimetric
Ammonia (as N)	= 0.05	= 0.05		Grab	0.02	Colorimetric
Biochemical Oxygen Demand	= 2	= 2		Grab	0.06	Electrochemic
Chemical Oxygen Demand	= 7	= 29		Grab	8	Digestion & Colorimetric
Dissolved Oxygen				Grab	0	ISE
Hardness (as CaCO₃)				Grab	0	Titimetric
Total Nitrogen (as N)	= 5.4	= 4.5		Grab	0.5	Digestion & Colorimetric
Nitrite (as N)				Grab	0.013	Colorimetric
Nitrate (as N)				Grab	0.04	Colorimetric
Total Phosphorous (as P)	= 0.07	= 0.11		Grab	0.2	Digestion & Colorimetric
OrthoPhosphate (as P)	= 0.06	= 0.08	< 0.05	Grab	0.02	Colorimetric
Sulphate (SO ₄)				Grab	30	Turbidimetric
Phenols (Sum)				Grab	0.1	GC-MS 2

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 of the control of the contro

Additional Comments: default of 01/01/09 and 0 used where results are not available

Consent of control of the control of the

TABLE F.1(i)(b): SURFACE/GROUND WATER MONITORING (Dangerous Substances)

Primary Discharge Point

Discharge Point Code:	SW-1
MONITORING POINT CODE:	aSW-1d
Grid Ref (12 digits, 6E, 6N)	184141 / 092247

Parameter		Results (µg/l)			Sampling method	Limit of Quantitation	Analysis method / technique
	10/12/08	01/01/09	06/01/09	20/01/09			
Atrazine	< 0.01				Grab	0.96	HPLC
Dichloromethane	< 1				Grab	1	GC-MS 1
Simazine	< 0.01				Grab	0.01	HPLC
Toluene	< 1				Grab	0.02	GC-MS 1
Tributyltin		= 0			Grab	0.02	GC-MS 1
Xylenes	< 1				Grab	1	GC-MS 1
Arsenic	< 0.96				Grab	0.96	ICP-MS
Chromium	< 20		< 20	< 20	Grab	20	ICP-OES
Copper	< 20		< 20	< 20	Grab	20	ICP-OES
Cyanide	< 5			0	. Grab	5	Colorimetric
Flouride	= 57			1150	Grab	100	ISE
Lead	< 20		< 20	< 20 the	Grab	20	ICP-OES
Nickel	< 20		< 20	< 20	Grab	20	ICP-OES
Zinc ·	< 20		< 20	< 20	Grab	20	ICP-OES
Boron	< 20		< 20 005:50	< 20	Grab	20	ICP-OES
Cadmium	< 20		< 20 100 int	< 20	Grab	20	ICP-OES
Mercury	< 0.2		XX 20 x		Grab	0.2	ICP-MS
Selenium	= 0.9	kot i	Spe Control		Grab	0.74	ICP-MS
Barium	= 66	COLD	= 21	< 20	Grab	20	ICP-OES

Additional Comments:	TBT Value is 0.02ug/t as Sn
	TBT testing not required

WWD Licence Application Annex I

Parameter		Results (μg/l)	Sampling method	Limit of Quantitation	Analysis method / technique
	19/02/09				
Atrazine			Grab	0.96	HPLC
Dichloromethane			Grab	1	GC-MS 1
Simazine			Grab	0.01	HPLC
Toluene			Grab	0.02	GC-MS 1
Tributyltin			Grab	0.02	GC-MS 1
Xylenes			Grab	1	GC-MS 1
Arsenic			Grab	0.96	ICP-MS
Chromium	< 20		Grab	20	ICP-OES
Copper	< 20		Grab	20	ICP-OES
Cyanide			Grab	5	Colorimetric
Flouride			Grab	100	ISE
Lead	< 20		Grab	20	ICP-OES
Nickel	< 20		Grab	20	ICP-OES
Zinc	< 20		Grab	20	ICP-OES
Boron	< 20		Grab	20	ICP-OES
Cadmium	< 20		Grab	20	ICP-OES
Mercury			Grab	0.2	ICP-MS
Selenium			Grab	0.74	ICP-MS
Barium	= 23		Grab	20	ICP-OES

Additional Comments:	TBT Value is 0.02ug/l as Sn TBT testing not required
	TBT testing not required Consent of Conflicted to Anner required for the conflicted to the conflicted
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TABLE F.1(i)(a): SURFACE/GROUND WATER MONITORING

Primary Discharge Point

Discharge Point Code:	SW-1
MONITORING POINT CODE:	aSW-1u
Grid Ref (12 digits, 6E, 6N)	183503 / 093556

Parameter		Results (mg/l)			Sampling method	Limit of Quantitation	Analysis method / technique
	24/09/08	09/10/08	10/12/08	01/01/09			
рН	1		= 7.7		Grab	2	Electrochemic al
Temperature				= 0	Grab	0.5	Electrochemic al
Electrical Conductivity (@ 25°C)			= 316		Grab	0.5	Electrochemic al
Suspended Solids			= 12		Grab	0.5	Gravimetric
Ammonia (as N)			< 0.1		Grab	0.02	Colorimetric
Biochemical Oxygen Demand			= 2		Grab	0.06	Electrochemic al
Chemical Oxygen Demand			< 21	ړي.	Grab	8	Digestion & Colorimetric
Dissolved Oxygen				= 0	Grab	0	ISE
Hardness (as CaCO₃)				= 0 offer	Grab	0	Titimetric
Total Nitrogen (as N)			= 3	for and	Grab	0.5	Digestion & Colorimetric
Nitrite (as N)			= 0.008	3	Grab	0.013	Colorimetric
Nitrate (as N)			= 5.01		Grab	0.04	Colorimetric
Total Phosphorous (as P)			Te Chiles		Grab	0.2	Digestion & Colorimetric
OrthoPhosphate (as P)	< 0.05	< 0.05	0.05		Grab	0.02	Colorimetric
Sulphate (SO ₄)		< 0.05 V	< 30		Grab	30	Turbidimetric
Phenois (Sum)		\$ cox	< 0.1		Grab	0.1	GC-MS 2

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.

		1
		1
Additional Comments:	default of 01/01/09 and 0 used where results are not available	1
Additional Comments:	default of 0 1/0 1/05 and 0 dised where results are not available	ز

WWD Licence Application Annex I

Parameter	Results (mg/l)		Sampling method	Limit of Quantitation	Analysis method / technique	
	06/01/09	20/01/09	19/02/09			
рН	= 7.6	= 7.4		Grab	2	Electrochemic al
Temperature				Grab	0.5	Electrochemic al
Electrical Conductivity (@ 25°C)	= 332	= 327		Grab	0.5	Electrochemic al
Suspended Solids	= 11	= 18		Grab	0.5	Gravimetric
Ammonia (as N)	= 0.05	= 0.05		Grab	0.02	Colorimetric
Biochemical Oxygen Demand	= 2	= 2		Grab	0.06	Electrochemic al
Chemical Oxygen Demand	= 6	= 25		Grab	8	Digestion & Colorimetric
Dissolved Oxygen				Grab	0	ISE
Hardness (as CaCO₃)				Grab	0	Titimetric
Total Nitrogen (as N)	= 5.3	= 4.4		Grab	0.5	Digestion & Colorimetric
Nitrite (as N)				Grab	0.013	Colorimetric
Nitrate (as N)				Grab	0.04	Colorimetric
Total Phosphorous (as P)	= 0.07	= 0.12		Grab	0.2	Digestion & Colorimetric
OrthoPhosphate (as P)	= 0.07	= 0.07	< 0.05	Grab	0.02	Colorimetric
Sulphate (SO ₄)				Grab	30	Turbidimetric
Phenols (Sum)				Grab	0.1	GC-MS 2

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper For Phenois: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

Additional Comments: default of 01/01/09 and 0 used where results are not available

Consent of Con

TABLE F.1(i)(b): SURFACE/GROUND WATER MONITORING (Dangerous Substances)

Primary Discharge Point

Discharge Point Code:	SW-1
MONITORING POINT CODE:	aSW-1u
Grid Ref (12 digits, 6E, 6N)	183503 / 093556

Parameter	Results (µg/l)		sults (µg/l)		Sampling method	Limit of Quantitation	Analysis method / technique
	09/10/08	10/12/08	01/01/09	06/01/09			
Atrazine		< 0.01			Grab	0.96	HPLC
Dichloromethane		< 1			Grab	1	GC-MS 1
Simazine		< 0.01			Grab	0.01	HPLC
Toluene		< 1			Grab	0.02	GC-MS 1
Tributyltin			= 0		Grab	0.02	GC-MS 1
Xylenes		< 1			Grab	1	GC-MS 1
Arsenic		< 0.96			Grab	0.96	ICP-MS
Chromium	< 20	< 20		< 20	Grab	20	ICP-OES
Copper	< 20	< 20		< 20	Grab	20	ICP-OES
Cyanide		< 5		g,	Grab	5	Colorimetric
Flouride		= 75		1150	Grab	100	ISE
Lead	< 20	= 20		< 20 illet 1158	Grab	20	ICP-OES
Nickel	< 20	< 20		520	Grab	20	ICP-OES
Zinc	= 22	< 20	چ 0	< 20	Grab	20	ICP-OES
Boron	< 20	< 20	20° 17°	< 20	Grab	20	ICP-OES
Cadmium	< 20	< 20	don purpose di la compania di la com	< 20	Grab	20	ICP-OES
Mercury		= 0.2	doneit		Grab	0.2	ICP-MS
Selenium		= 1 1	0 0		Grab	0.74	ICP-MS
Barium	= 113		del contraction of the contracti	= 21	Grab	20	ICP-OES

Additional Comments:	TBT value is 0.02ug/l as 5n
	TBT testing not required

Parameter		Results (µg/l)	Sampling method	Limit of Quantitation	Analysis method / technique
	20/01/09	19/02/09			
Atrazine			Grab	0.96	HPLC
Dichloromethane			Grab	1	GC-MS 1
Simazine			Grab	0.01	HPLC
Toluene			Grab	0.02	GC-MS 1
Tributyltin			Grab	0.02	GC-MS 1
Xylenes			Grab	1	GC-MS 1
Arsenic			Grab	0.96	ICP-MS
Chromium	< 20	< 20	Grab	20	ICP-OES
Copper	< 20	< 20	Grab	20	ICP-OES
Cyanide			Grab	5	Colorimetric
Flouride			Grab	100	ISE
Lead	< 20	< 20	Grab	20	ICP-OES
Nickel	< 20	< 20	Grab	20	ICP-OES
Zinc	< 20	< 20	Grab	20	ICP-OES
Boron	< 20	< 20	Grab	20	ICP-OES
Cadmium	< 20	< 20	Grab	20	ICP-OES
Mercury			Grab	0.2	ICP-MS
Selenium			Grab	0.74	ICP-MS
Barium	= 25	= 28	Grab	20	ICP-OES

Additional Comments:

TBT value is 0.02ug/l as Sn
TBT testing not required

TBT testing not required

TBT testing not required

TBT testing not required

WWD Licence Application - Castlelyons - Page: 15

Annex 2: Check List For Regulation 16 Compliance

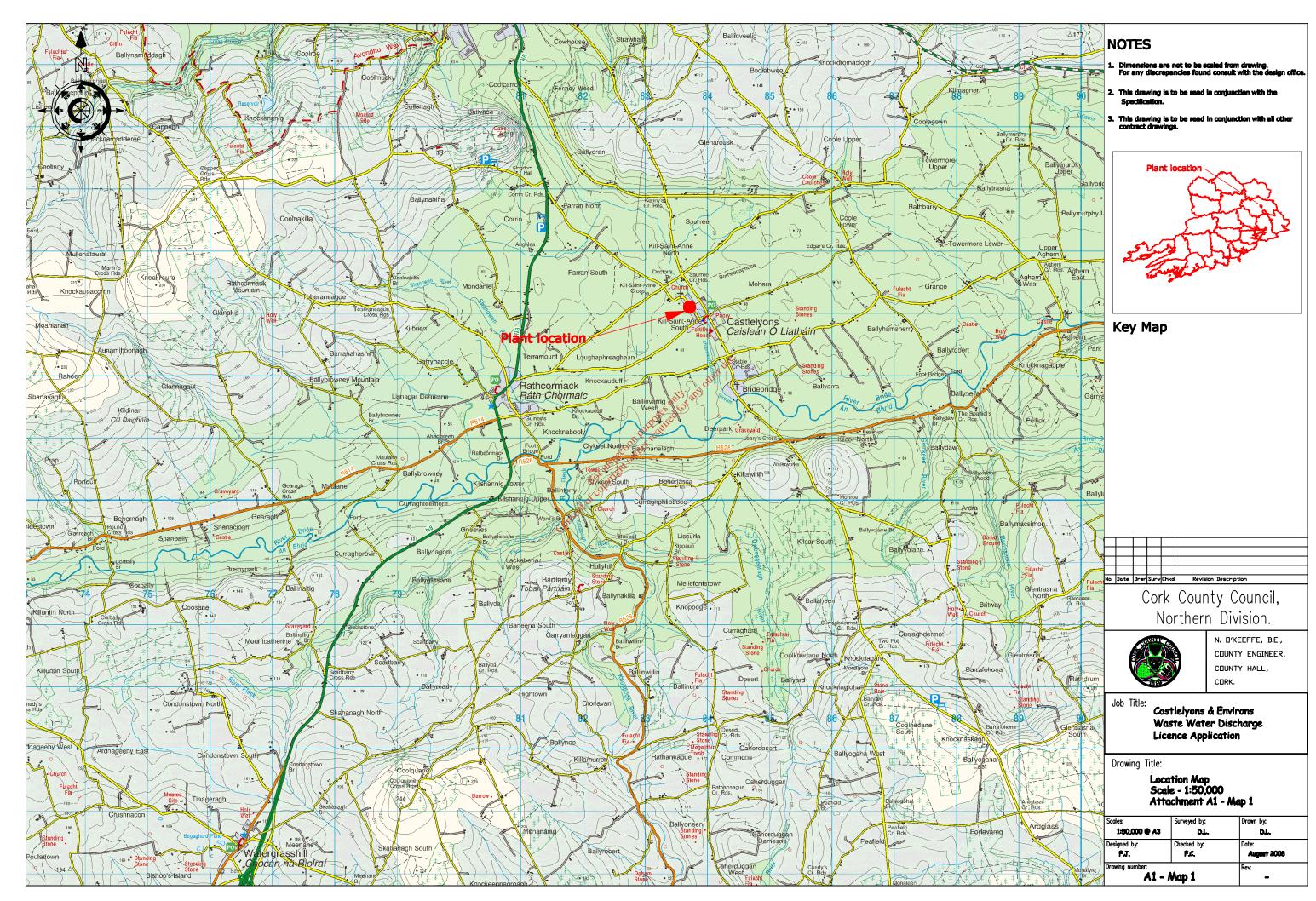
Regulation 16 of the waste water discharge (Authorisation) Regulations 2007 (S.I. No. 684 of 2007) sets out the information which must, in all cases, accompany a discharge licence application. In order to ensure that the application fully complies with the legal requirements of regulation 16 of the 2007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

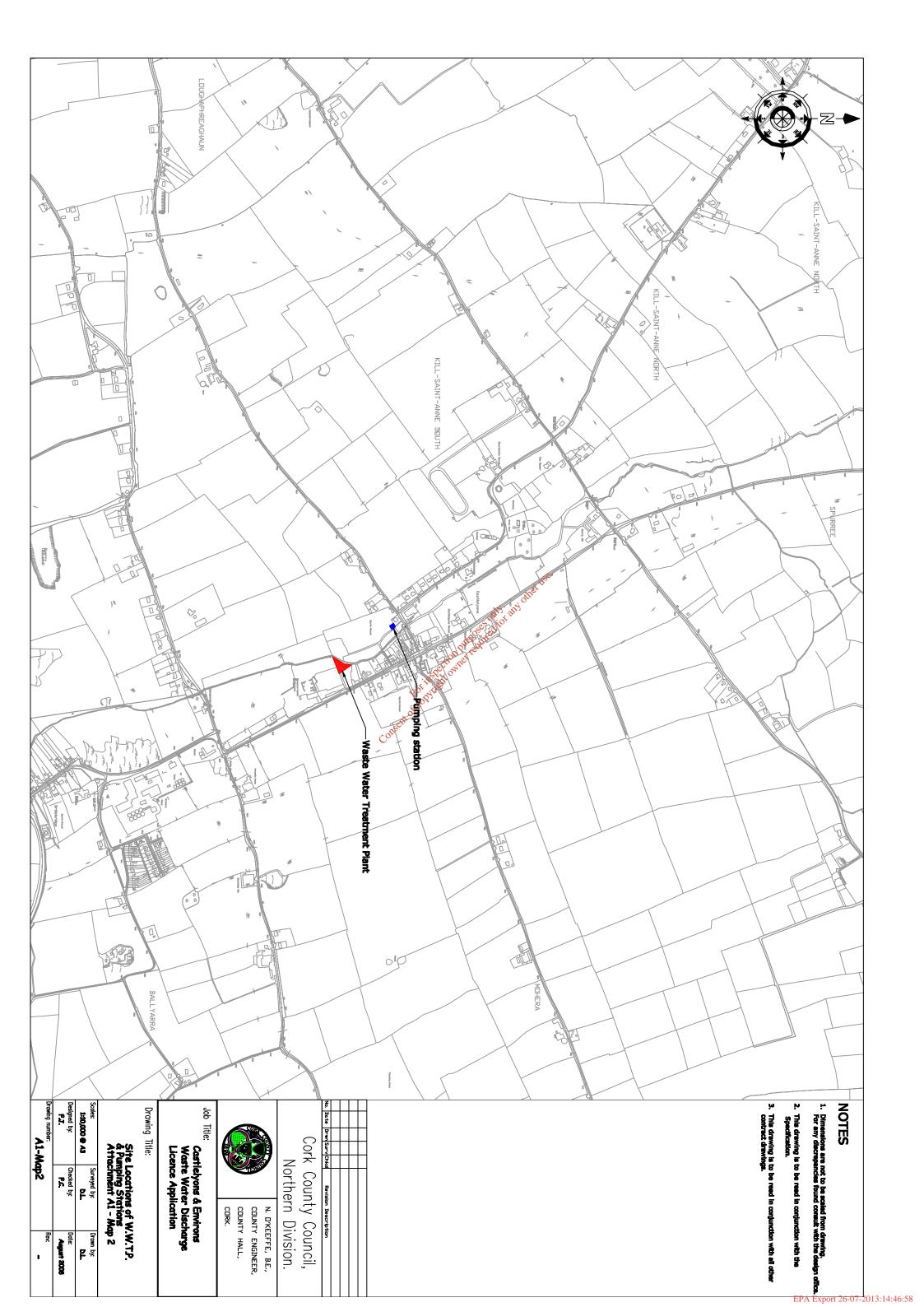
In each case, refer to the attachment number(s), of your application which contains(s) the information requested in the appropriate sub-article.

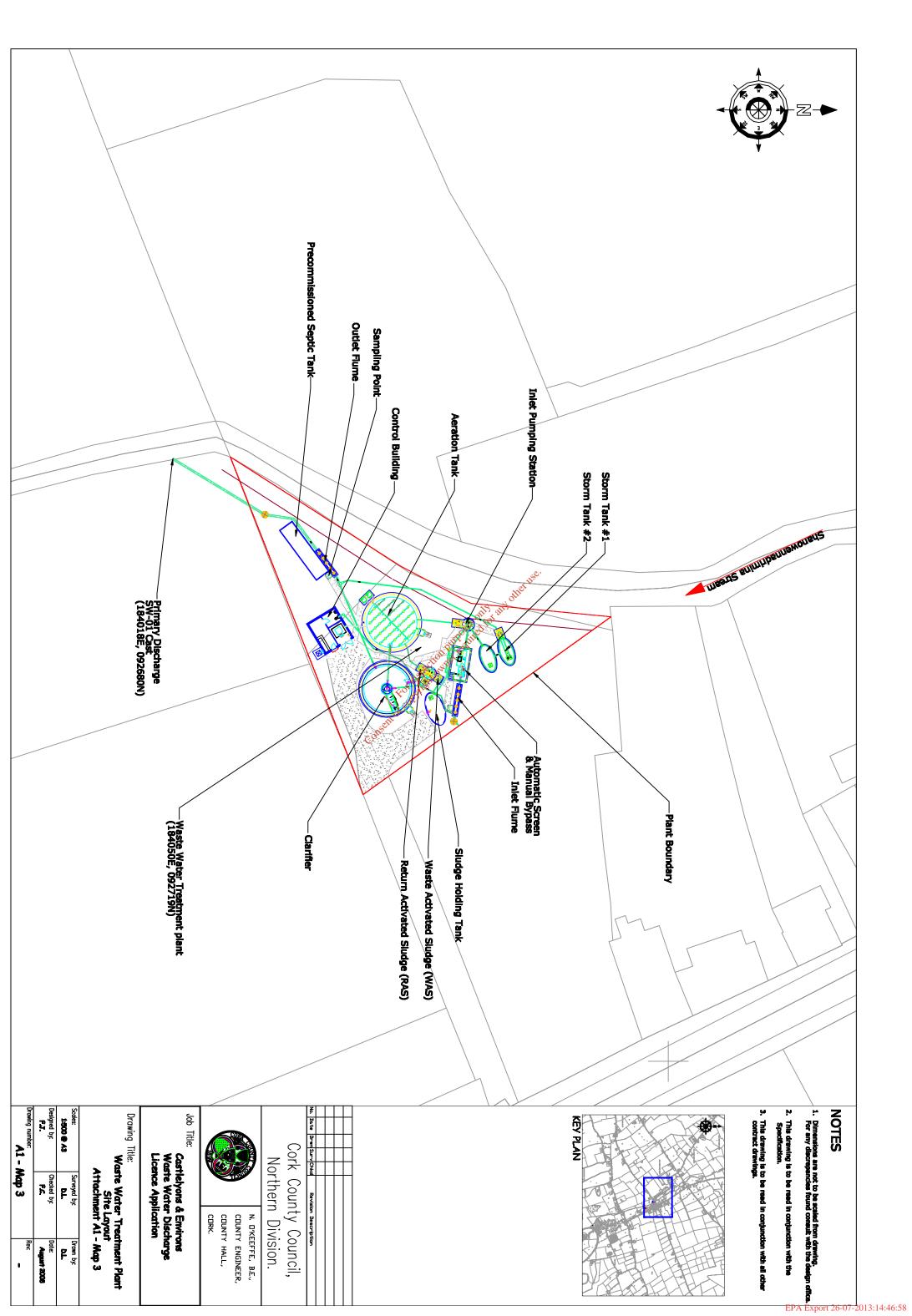
	tion 16(1) case of an application for a waste water discharge licence, the application shall -	Attachment Number	Checked by Applicant
(a)	give the name, address, telefax number (if any) and telephone number of the applicant (and, if different, of the operator of any treatment plant concerned) and the 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,	B1	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,	Not Applicable	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,	B2	Yes
(d)	state the population equivalent of the agglomeration to which the application relates,	B9(i)	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,	C,D	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.	F1	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.	E3	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,	E4	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,	Not Applicable	Yes
(j)	give particulars of the nearest downstream drinking water abstraction point or points to the discharge point or points,	Not Applicable	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,	.F1	Yes
(1)	give detail of compliance with relevant monitoring requirements and treatment standards contained in any applicable Council Directives of Regulations,	E4	Yes
(m)	give details of any work necessary to meet relevant effluent discharge standards and a timeframe and schedule for such work.	Not Applicable	Yes
(n)	Any other information as may be stipulated by the Agency.	Not Applicable	Yes
Withou	tion 16(3) t prejudice to Regulation 16 (1) and (2), an application for a licence shall be panied by -	Attachment Number	Checked by Applicant
(a)	a copy of the notice of intention to make an application given pursuant to Regulation 9,	B8	Yes
(b)	where appropriate, a copy of the notice given to a relevant water services authority under Regulation 13,	Not Applicable	Yes
(c)	Such other particulars, drawings, maps, reports and supporting documentation as are necessary to identify and describe, as appropriate -	В	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	B3, B5	Yes
(c) (ii)	the point or points at which monitoring and sampling are undertaken or are to be undertaken,	E3	Yes
(d)	such fee as is appropriate having regard to the provisions of Regulations 38 and 39.	B9(III)	Yes

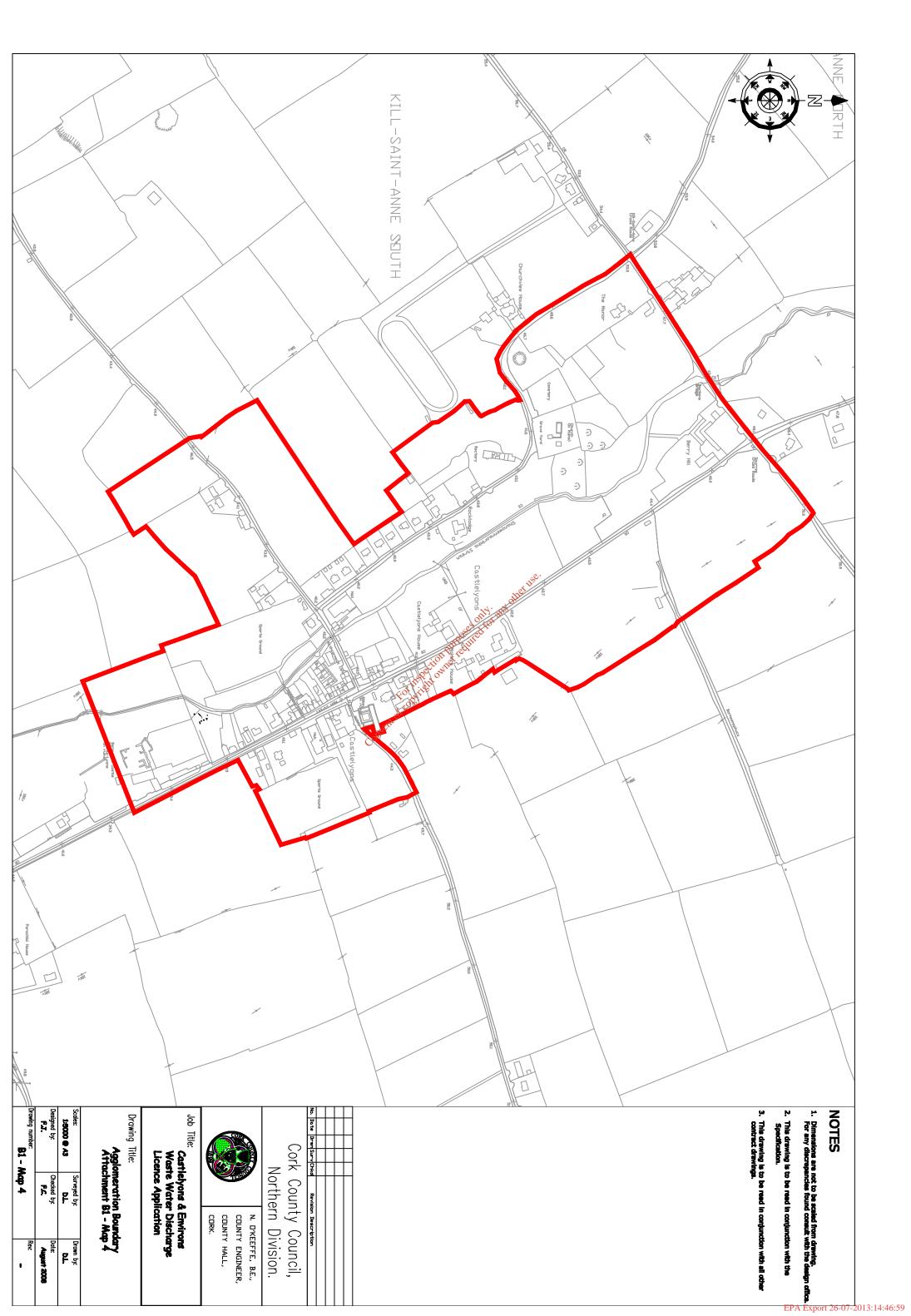
An o	ilation 16(4) iginal application shall be accompanied by 2 copies of it and of all accompanying ments and particulars as required under Regulation 16(3) in hardcopy or in an electronic ner format as specified by the Agency.	Attachment Number	Checked by Applicant
1	An Original Application shall be 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 agancy.		
For the	lation 16(5) he purpose of paragraph (4), all or part of the 2 copies of the said application and clated documents and particulars may, with the agreement of the Agency, be submitted in actionic 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
Wher subjecto 200 respensively	lation 17 e a treatment plant associated with the relevant waste water works is or has been ct to the European Communities (Environmental Impact Assessment) Regulations 1989 01, in addition to compliance with the requirements of Regulation 16, an application in ct of the relevant discharge shall be accompanied by a copy of an environmental impact nent and approval in accordance with the Act of 2000 in respect of the said development may be submitted in an electronic or other format specified by the Agency	Attachment Number	Checked by Applicant
1	EIA provided if applicable		Yes
2	2 hardcopies of EIS provided if applicable.		Yes
3	2 CD versions of EIS, as PDF files, provided.		Yes

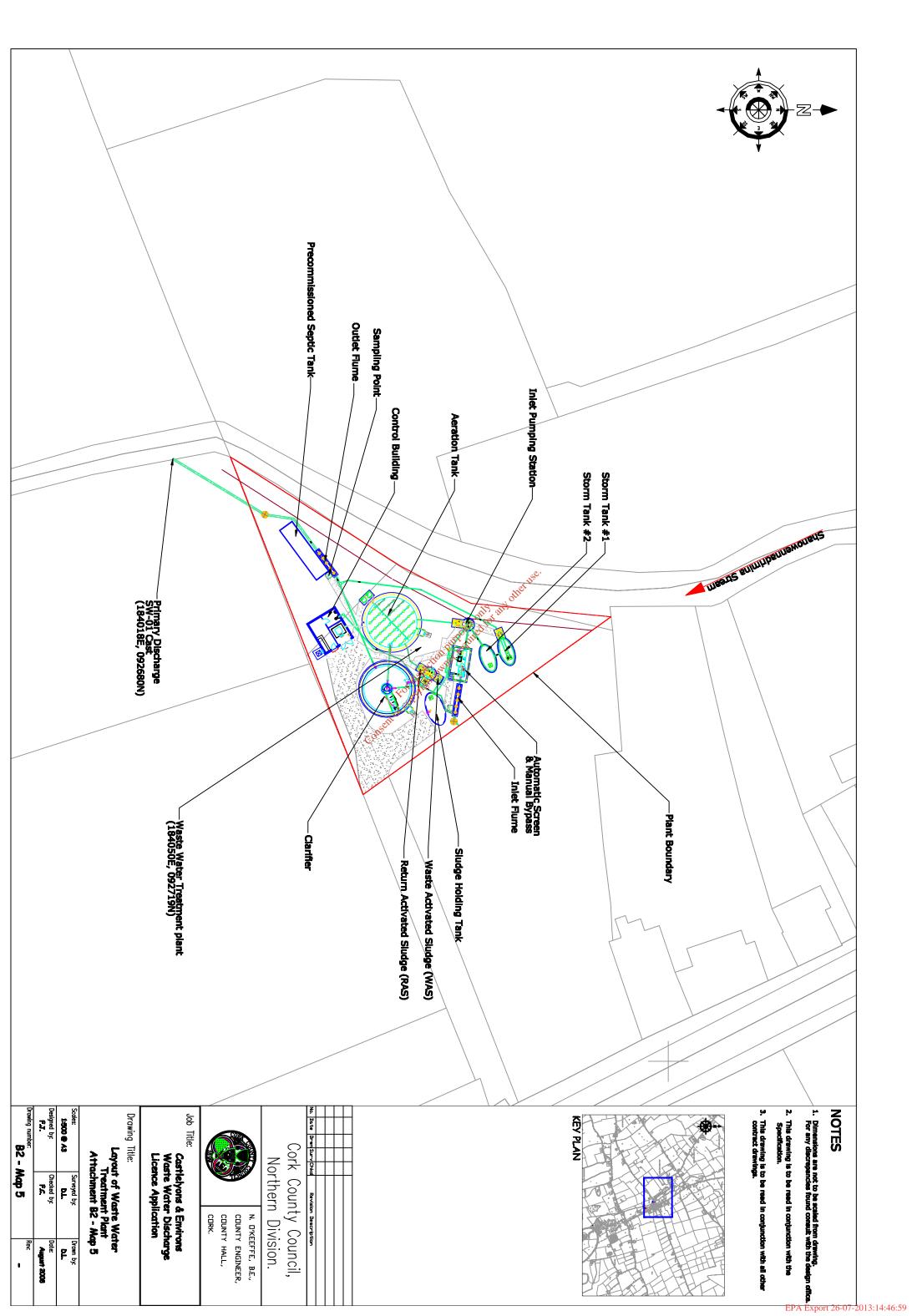
Consent of copyright owner required for any other use.

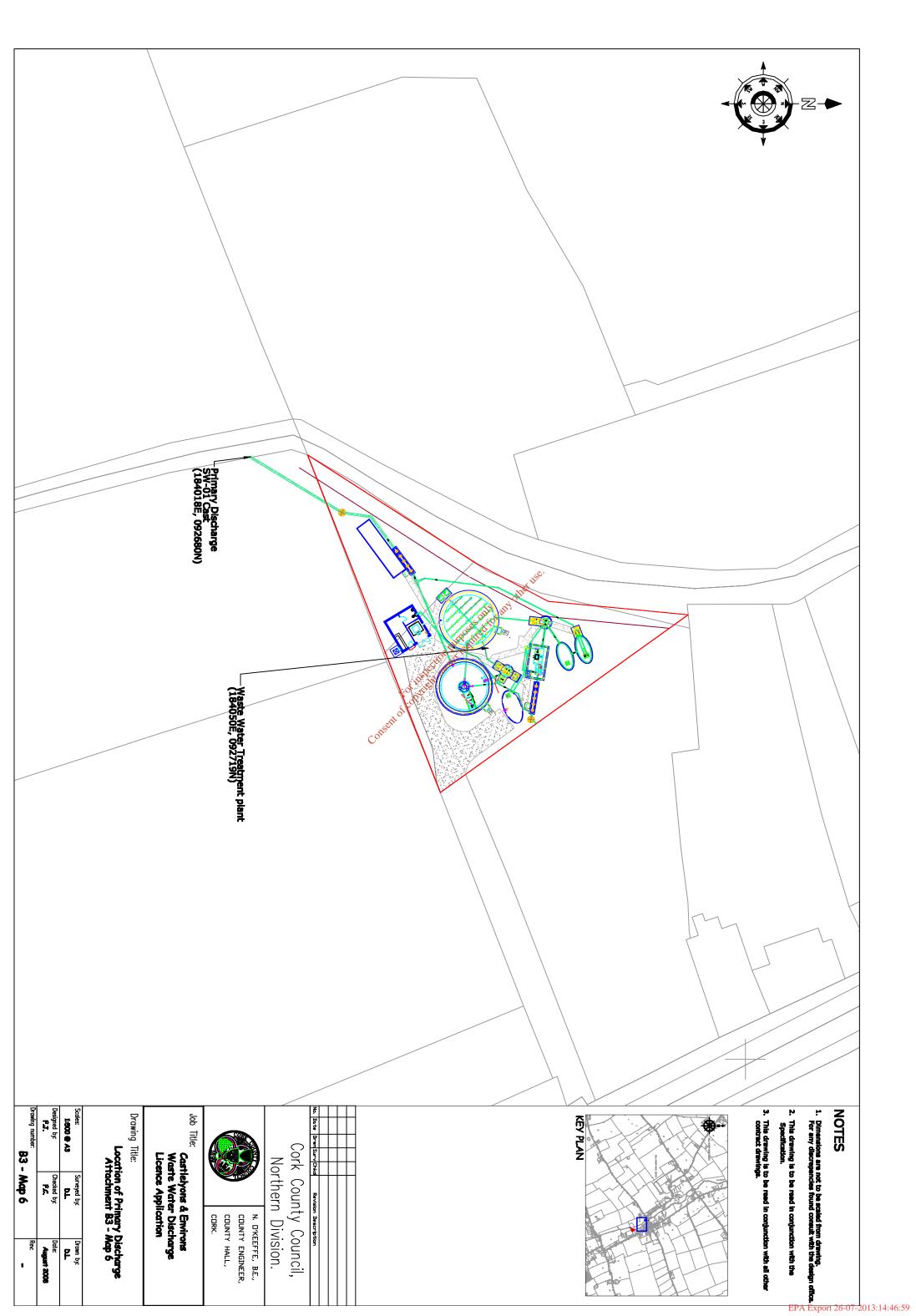


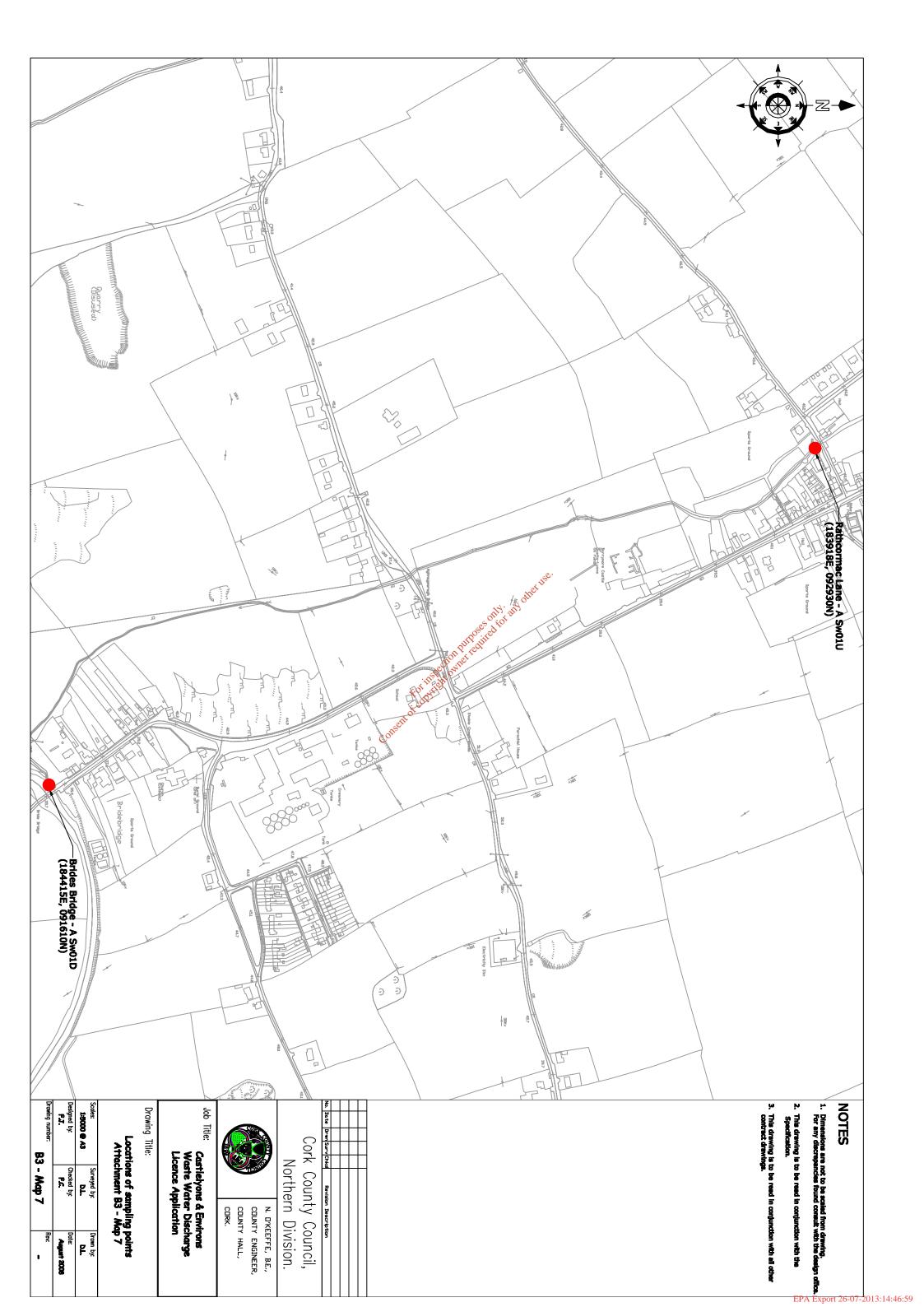


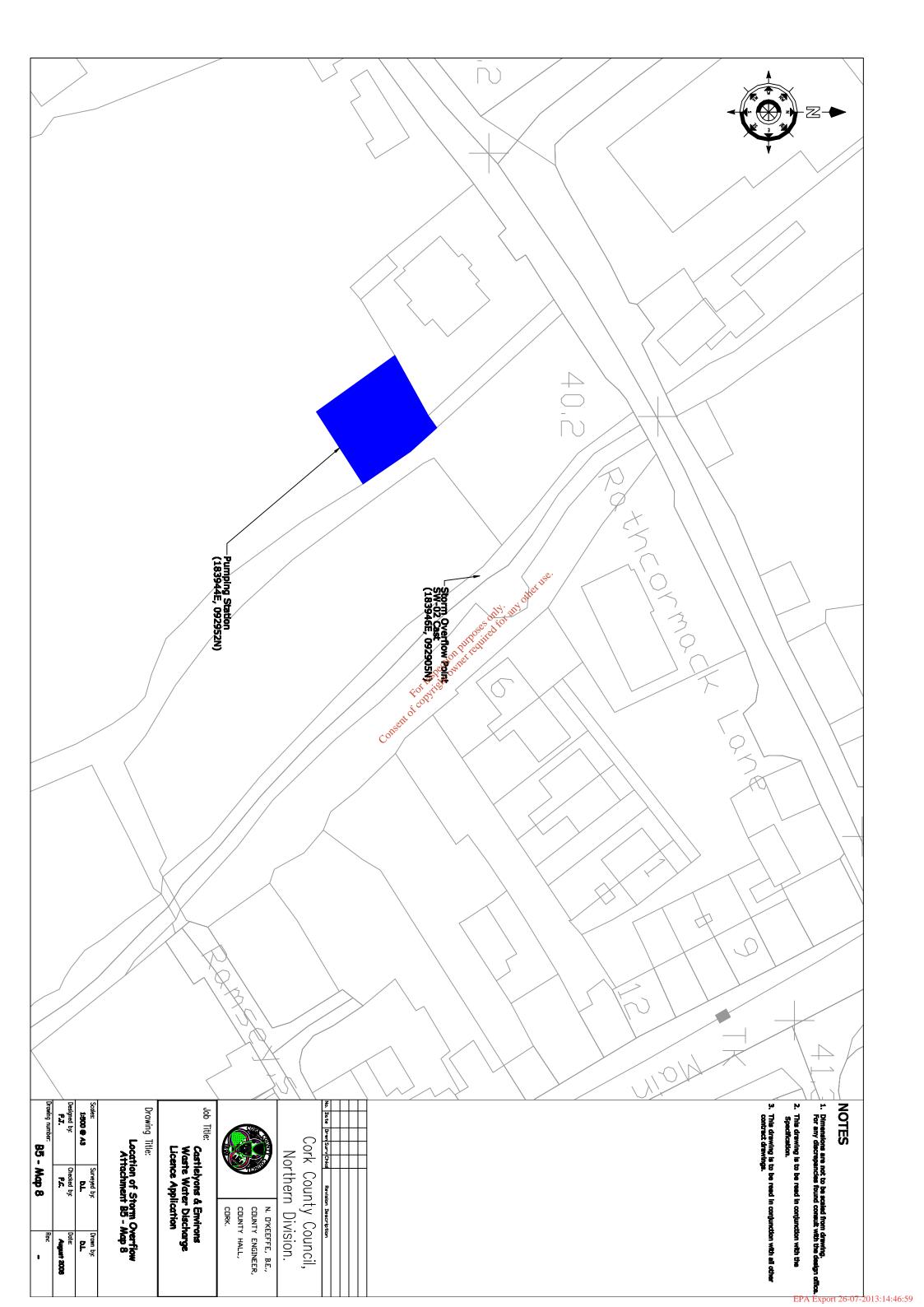












Daniside Control Convert

Sheila Curtin,
Housing Dept.,
Cork County Council,
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Mallow,
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Corcaigh, Éire.

Trafficer by Carensaden - America office -



Direct Dial: 021-4285454

Fax: 021-4345425

Email: corporate.affairs@corkcoco.ie

10th May, 2006.

Re: Report under section 179 Planning & Development Act 2000

- Brostopment of Water Storage Reservoir, at Strawhalll, Fermoy, Co.
- Development of Wastewater treatment Plant, at Castlelyons, Co. Cork..

At the meeting of Cork County Council held on 8th May, 2006 the recommendations of the Northern Committee was approved.

MARIAN MCCARTHY, ASENIOR EXECUTIVE OFFICER.

CORK COUNTY COUNCIL (NORTH)

LOCAL GOVERNMENT PLANNING AND DEATER OF AREA 2000

REPORT PURSUANT TO SECTION 179

DEVELOPMENT: Wastewater Treatment Plant	
LOCATION: Castlelyons, Co. Cork.	
NATURE/EXTENT/PRINCIPLE FEATURES OF PROPOSED DEVELOPMENT:	
The design, supply, installation, testing, commissioning and initial mai a new wastewater treatment plant. PERSONS OR BODIES WHO MADE SUBMISSIONS OR OBSERVE	ntenance of
PERSONS OR BODIES WHO MADE SUBMISSIONS OR OBSERV	VATIONS:
No Submissions or Observations received in the received in the control of the con	
LIKELY IMPLICATIONS WITH RESPECT TO THE PROPER PLAND DEVELOPMENT OF THE AREA:	LANNING
None (See Report of Bob Gunkel, Senior Planner attached)	
IT IS PROPOSED:	
To proceed with the above development	
This report is submitted to the members of Cork County Council in the compliance with Section 2 (7) of the City and County Management (A Act, 1995.	he course of (mendment)
SIGNED:	
FOR HEAD OF CORPORATE AFFAIRS	
DATE:	
·	



CORK COUNTY COUNCIL SITE NOTICE

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Waste Water Discharge (Authorisation) Regulations 2007, Water Services Northern Division, Cork County Council, Annabella, Mallow is applying to the Environmental Protection Agency for a Waste Water Discharge Licence for the agglomeration of Castlelyons Cork at the following locations:

Plant Name	Location	National Grid Ref.
Castlelyons WWTP	Kill St Anne,	E184050 N092719
	Castlelyons	of the

•		· ·	14. 104 0th	
Discharge	Function	Townland	Receptor	Grid Reference
Primary	Main	Kill St Anne	Shanowennadrimina	E184018
		· Off Dir	or,	N092680

A copy of the application for the Waste Water Discharge Licence and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the Application shall as soon as is practicable after receipt by the Agency be available for inspection or purchase at the

- Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335599 Telephone: 053-9160600 Fax: 053-9160699 Email:info@epa.ie and at
- Cork County Council Offices, Annabella, Mallow, Co. Cork, Telephone: 022-21123 Fax: 022-21983

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above.

Newspaper Advertisement

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Waste Water Discharge (Authorisation) Regulations 2007, Water Services Northern Division, Cork County Council, Annabella, Mallow is applying to the Environmental Protection Agency for a Waste Water Discharge Licence for the agglomeration of Castlelyons Cork at the following locations:

Plant Name	Location	National Grid Ref.
Castlelyons WWTP	Kill St Anne,	E184050 N092719
	Castlelyons	

Discharge	Function	Townland	Receptor	Grid Reference
Primary	Main	Kill St Anne	Shanowennadrimina	E184018
				N092680

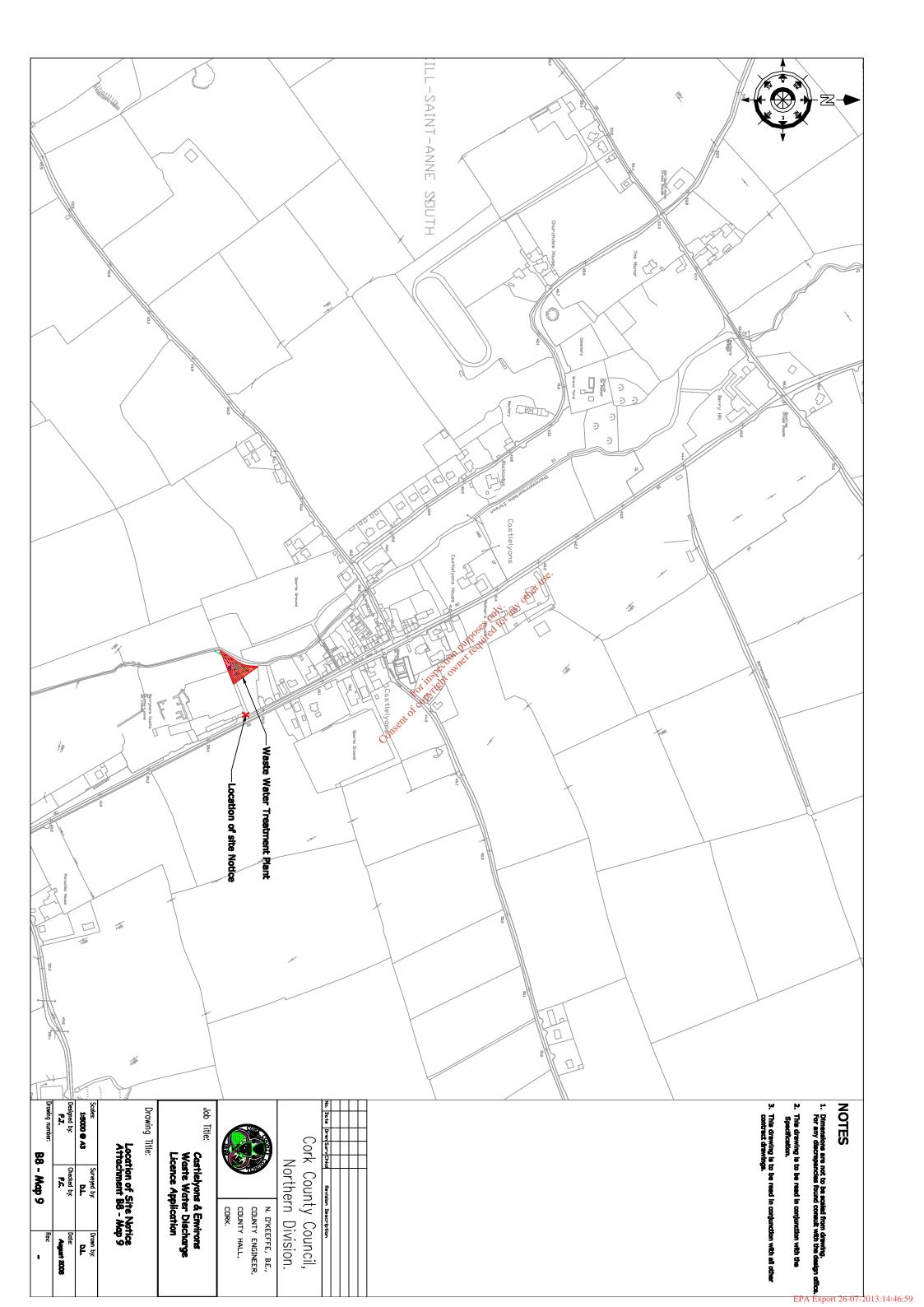
A copy of the application for the Waste Water Discharge Licence and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the Application shall as soon as is practicable after receipt by the Agency be available for inspection or purchase at the

• Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335599 Telephone: 053-9160600 Fax: 053-9160699 Email:info@epa.ie

and at

• Cork County Council Offices, Annabella, Mallow, Co. Cork, Telephone: 022-21123 Fax: 022-21893.

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above.





CORK COUNTY COUNCIL

COMHAIRLE CHONTAE CHORCAÍ

PUBLIC NOTICES

SOUTHERN DIVISION

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Wastewater Discharge (Authonsation) Regulations 2007, Water Services Southern Division, Cork Count Countil, Carrigrohane Road, Cork is applying to the Environmental Protection Agency for a Wastewater Discharge Licence for Ringaskiddy Village agglomoration with a discharge point at the following location

Discharge.	Function	Townland	Receptor	Grid Re
Primary	Major	Loughbeg	Cork Harbour	E178202
	Outfall		(West Passage)	N064723

associated with the proposed provision of a Wastewater Treatme Plant in the Lower Harbour to the Agency along with the Applicati

A copy of the application for the Wastewater Discharge Licence, the Environmental Impact Statement and such further informative relating to the application is may be furnished to the Agency in the course of the Agency's consideration of the Application shall, as soon as is practicable after receipt by the Agency, be available for inspection or purchase at the

- Environmental Protection Agency, PO Box 3000. Johnstown Castle Estate, Co Wexford, Lo Call 1890 335 599; Tel: 053-9160600; Fax: 053-9160699; Email: info@epa.ic
- nd at Cork County Council Offices, Water Services South, County Hall, Carrigrohane Road, Cork Tel: 021-4276891; Fax: 021-4276321.

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Wastewater Discharge (Authorisation) Regulations 2007, Water Services Southern Division of Cork County Council, Cardigrobane Road, Coxic is applying to the Environmental Protection Agency for a Wastewater Discharge Licence for the agglomeration of Kilbritian at The following locations

Kilbrittain V	WWTP	Kilbrittain	E152 N468	
Discharge	Function	Townland	Receptor	Grid Ref
Primary	Main	Kilbrittain	Kilbrittain River	E152671 N46831

and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the Application shall, as soon as is practicable after receipt by the Agency, be available for inspection or purchase at the

Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335 599; Tel: 053-9160600; Fax: 053-9160699; Email: info@epa.ie

d at Cork County Council Offices, Water Services South. County Hail: Carrigrohane Road, Co. Cork. Tel: 021-4276891; Fax: 021-4276321

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Wastowater Discharge (Authorisation) Regulations 2007. Warr Services Southern Division of Cork Cou Council, Carrigrohane Road, Cork is applying to the Environment Protection Agency for a Wastewater Discharge Decree for the agglomeration of Ballingeary at the following locations.

Plant Nam	0	Location	Nutional	Grid Ref.
Ballingeary	WWIP	Dromanallig Ballingeary		5181 6906
Discharge	Function	Townland	Receptor	Grid Ref.
Primary	Main	Ballingeary	Bunsheelin River	E115239 N066876

PUBLIC NOTICES

SOUTHERN DIVISION

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE accordance with the Wastewater Discharge (Authorisation)

	Road, Cork is app a Wastewater Disc	
Plant Name	Location	National Grid Ref.
Mogeely WWTP	Killamucky, Mogeely	E196119 N074683

- copy of the application for the Wastewater Discharge Licence of such further information relating to the application as may rushed to the Agency in the rourse of the Agency's considerate the Application shall, as soon as is practicable after recept by e Agency, be available for unspection or purchase at the
- Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co Wexford, Lo Call 1890 335 599, Tel: 053-9160600, Fax. 053-9160699; Email: info@epa ic
- nd at Cork County Conneil Offices, Water Services South, County Hall, Caringrohane Road, Co. Cork Tel-021-4276891; Fax: 021-4276321

oubmissions in relation to the application may be made t he Environmental Protection Agency at its headquarters

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

n accordance with the Wastewater Discharge (Authorisation) kegulations 2007, Water Services Southern Division of Cork Count Jouncil, Carrigothane Road, Cork is applying to the Environmental Protection Agency (or a Wastewater Discharge Licence for the account of the Disputation of the following because its order.

Plant Name	2	Location		Grid Ref.
Riverstick W	WIP	Curra, Riverstick		55912 57429
Discharge	Functi	n Townlas	d Receptor	Grid Ref
Primary	Main	Riverstic	k Slick River	E165975 N057389

Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335 599; Tel: 053-9160600; Fax: 053-9160699; Email: info@epa.ie id at Cork County Council Offices, Water Services South County Hall, Carrigrobane Road, Co. Cork Tel: 021-4276891; Fax. 021-4276321.

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

n accordance with the Wasiewater Discharge (Authorisation) tegulations 2007, Water Services Southern Division of Cork Count Jouncil, Carrigrobane Road, Cork is applying to the Environmental forection Agency or a Wastewater Discharge Licence for the agiomeration of Whitegate-Aghada at the following locations: Discharge | Dunction | Townland | Recentor | Grid Ref

			TOARTTMETHY		
ľ	Primary	Main	Whitegate	Cork Harbour	E183337
					N064664
١	Secondary	Secondary	Farsid	Cork Harbour	E186873
	_				N065803
ľ	Secondary	Secondary	Lower	Cork Marbour	E185465
		1	Aghada		N065780
ì	Secondary	Secondary	Arknabourkey	Percolation	E184543
	,			Area	N063066

PUBLIC NOTICES

NORTHERN DIVISION APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Wastewater Discharge (Authonsation) Regulations 2007, Water Services Northern Division, Cork Count Council, Annabella, Mallow is applying to the Environmental Protection Agency for a Wastewer Discharge Licence for the agglomeration of Bweeng at the following locations.

Plant Nam	e	Location	National	Grid Ref.
Bweeng WV		Beennamweel, Bweeng	E150 N08	
Discharge	Function	Townland	Receptor	Grid Ref.
Primary	Main	Beennamweel	Cummen Stream	E150251 N088034

- copy of the application for the Wastewater Discharge Licensee but d such further information relating to the application assume mished to the Agency's one of the Agency's consistent to the Agency's consistent to the Agency's consistent to the Agency's consistent to the Agency's consistent as soon as is practicable for receipt by or Agency, be addable for inspection or purchase at the
- Environmental Tratection Agency, PO Box 3000.

 Johnstown Castle Estate, Co. Wextord, Lo. Call 1990 335 599;
 Tel. 053-9160600; Fax. 053-9160609, Email, info@epa.se

omissions in relation to the application may be made to Environmental Protection Agency at its headquarters

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

accordance with the Wastewater Discharge (Authorisation) aggladions 2007. Warter Services Northern Division. Cork County murel, Annabella, Mallow is applying to the Environmental orection Agency for a Wastewater Discharge Lecence for the glomeration of Castlelysis. Cork at the following locations.

Plant Nam	e	Location	National (Grid Ref.
Castlelyons	WWTP	Kill St. Ann Castlelyons		
Discharge	Function	Townland	Receptor	Grid Ref.
Primary	Main	Kill St. Anne	Shanowennadrimina	E184018 N092680

- copy of the application for the wasteware inschange (accura-d) auch further information relating to the application as may be transled to the Agency in the course of the Agency's consideratio (the Application shall, as soon as is practicable after receipt by the Agency, be available for inspection or purchase at the
- Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335-599; Tel: 053-9160600; Fax: 053-9160699; Email: mfo@epa.re
- Cork County Council Offices, Annabella, Mallow, Co. Cork Tel: 022-21123; Fax: 022-21893 thmissions in relation to the application may be made to Environmental Protection Agency at its headquarters

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

n accordance with the Wastewater Discharge (Authorisation) Regulations 2007, Water Services Northern Division, Cork County Jouncil, Annabella, Mallow is applying to the Environmental Protection Agency for a Wastewater Discharge Leone: for the agglomeration of Churchtown, Cork at the following locations: Location | National Grid Ref.

Churchtown	WWTP	Ballyadam. Churchtow		E150273 N113258	
Discharge	Function	Townland	Receptor	Grid Ref.	
Primary	Main	Ballyadam	Percolation Area	E150281 N113298	
and such furt furnished to a	her miore he Agency	nation relating in the course	g to the applic of the Agenc	harge lacence ration as may be y's consideration	

of the Application shall, as sooned is practicable after receipt by the Agency, be available for inspection or purchase at the Environmental Protection Agency, PO Box 3000.
 House St. 1 (2) of 1000.

PUBLIC NOTICES

NORTHERN DIVISION

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Wastewater Discharge (Authorisation) Regulations 2007. Water Services Northern Division, Cark Control Council, Annabella, Mallow is applying to the Environmental Protection Agency for a Wastewater Discharge Licence for the agglomeration of Conna at the following locations:

Plant Name	4	Location	National	Grid Ref.
Conna WWTP		Conna Villag		2575 3434
Discharge	Function	Townland	Receptor	Grid Re
	Main	Conna	River Bride	1192689

- copy of the application for the Wastewater Discharge Leence and such for their information relating to the application as may be runshed to the Agency in the course of the Agency's consideration of the Application shall, as soon as is practicable after receipt by the Agency, be available for inspection or purchase at the.
- Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335 599; Tel: 053-9160600; Fax: 053-9160699; Email: into@epa.ic Cork County Council Offices, Annabella, Mallow, Co. Cork. Tel: 022-21123, Fax: 023-21893.

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

in accordance with the Wastewater Discharge (Authoris Regulations 2007, Water Services Northern Division, Cork County Council, Awiabella, Mallow is applying to the Environmental Protection Agency for a Wastewater Discharge Ucence for the agglomeration of Glanworth at the following locations:

Plant Nam		Location	National	Grid Ref.
Glanworth 1	wwrp	Glanworth Village	E170 N100	
		Comment Comment	Water and the same	
Discharge	runction	TOMISMITTE	*cecebtor	Grid Ref.

Environmental Protection Agency, PO Box 3000, foliostown Castle Estate, Co. Wextord, Lo Call 1890 335 599, Fel: 053-9160609; Pax: 053-9160009, Email: mfo@epa.ic

Cork County Council Offices, Annabella, Mallow, Co. Cork. Tel. 022/21123; Fax: 022-21893 Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above.

In accordance with the Wastewater Discharge (Authorisation) Il accordance with a services Northern Division, Cork Con-Council, Annabella, Mallow is applying to the Environmental Protection Agency for a Wastewater Discharge Ucence for the agglomeration of Clondulane at the following locations:

 Plant Nume
 Location
 National Grid Ref.

 Clondulane WWTF
 Clondulane
 E.185341

 North
 N98981
 Discharge Function Townland Receptor Grid Ref.

PUBLIC NOTICES

WESTERN DIVISION

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Wastewater Discharge (Authorisation) Regulations 2007, Water Services Western Division, Cork County Council, Courthouse, Skibberen is applying to the Environmental Protection Agency for a Wastewater Discharge Licence for Gleingarriff agglomeration at the following locations:

Plant Nam	e	Location	National (Grid Ref.
Glengarriff	WWTP	Glengarriff	E093	292
			N056	304
Discharge	Function	Townland	Receptor	Grid Ref
Discharge Primary	Function Major	Townland (Receptor Glengarriff	Grid Ref

- A copy of the application for the Wastewater Discharge Lience and such further information relating to the application as may turnished to the Agency in the course of the Agency's considerable of the Application shall, as soon as is practicable after receipt by the Agency, be available for insuperction or purchase at the
- Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 3; Tel; 053-9160600; Pax. 053-9160609; Email: info@epa.ie
- d at . Cork County Council Water Services (Western Division). Courthouse, Skibbereen, Co. Cork. Tel: 028-21299; Fax: 028-21995

Submissions in relation to the application may be made to he Environmental Protection Agency at its headquarters

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

in accordance with the Westerwater Discharge (Authorisation) Regulations 2007, Water Services Western Division, Coric County owned, Courthouse, Skibbereen is applying to the Environmenta Protection Agency for a Wastewater Discharge Leence for Union fall agglomeration at the following locations:

Plant Nam Union Half	Location Union Hall	Natio	mai Grid Ref. E121147 N034582
Discharge Primary	Townland	Receptor Glandore	Grid Ref.
	 	Harbour	N034613

copy of the application for the Wastewater Discharge Licence of such further information relating to the application as may be insided to the Agency in the course of the Agency's considerable inside the Agency in the course of the Agency's considerable with the Agency of the Agency

Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1880 335 598 Tel: 053-9160600; Fax: 053-9160699; Email: Info@epa.te

d at Cork County Council Water Services (Western Division) Courthouse, Skibbereen, Co. Cork Tel: 028-21299: Fax: 028-21995.

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

accordance with the Wastewater Discharge (Authorisation) gulations 2007, S.i. No. 684 of 2007, Water Services (Wester segulations 2007, S.I. No. 684 of 2007, Water Services Western Division), Cork County Council, Courthouse, Skibbergen, Co. Cork is applying to the Environmental Protection Agency for a Wastiswate Discharge Lience for the Billineen/Enniskeane Agglomeration at the following locations.

ant Name	Location	National Grid Ref.
llineen WWTP	Derrigra	E134640
		N053975
. 144	134	To Plantage Thomas

- Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co Wexford, Lo Call 1890 335 599; Tel: 053-9160600; Fax: 053-9160699; Email: uto@epa.ic
- d at Cork County Council Offices. Water Services South, County Hall, Carrigrohane Road, Co. Cork, Tel: 021-4276891; Fax: 021-4276321.

sions in relation to the application may be made to vironmental Protection Agency at its headquarters

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE In accordance with the Wastewater Discharge (Authorisation) Regulations 2007, Water Services Southern Division of Corik Counc, Council, Carngohane Road, Cork is applying to the Environmental Protection Agency for a Wastewater Discharge Lorence for the agglomeration of Coachford at the following locations.

Plant Native Location Nadonal Grid Rd.

Coachford WWTP Clontead Beg. E146003
Coachford N073146

		Coacmord	14013140	
Discharge	Function	Townland	Receptor	Grid Ref.
Primary	Main	Nadrid	River Lee	E145231 N072297
and nuch fur	ther informa	ation relating a the course (water Dischar to the applicati of the Agency's	consideratio

- ne Agency, ne available for inspection of purchase as one:

 Environmental Protection Agency, PO Box 3000,

 Johnstown Castle Estate, Co. Wexford, Lo. Call 1890 335 599,

 Tel: 053-9160600; Fax: 053-9160699; Email: info@epa.ie
- nd at Cork County Council Offices, Water Services South, County Hall, Carrigrohane Road, Co. Cork Tel: 021-4276891; Fax: 021-4276321

APPILICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE In accordance with the Wastewater Discharge (Authorisation) Regulations 2007, Water Services Southern Division of Cork County Council, Carrigonane Road, Cork is applying to the Environmental Protection Agency for a Wastewater Discharge Licence for the agglomeration of Drisses at the following locations.

Plant Nam	ie	Location		Grid Ref.	
Dripsey WWTP		Agharinagh. Dripsey		E1486190 N074844	
Discharge	Function	Townland	Receptor	Grid Ref.	
Primary	Main	Agharinagh	Dripsey River	E148607 N074817	

A copy of the application for the Wastewater Discharge Licence and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the Application shall, as soon as is practicable after recept by the Agency, we available for inspection or purchase at the . Environmental Protection Agency, PO Box 3000, Johnstown Castle Estates, Co. Wexford, Lo Call 1890 335 599, Tel: 093-9160600; Fax: 053-9160609; Email: min@epa.te

nd at Cork County Council Offices, Water Services South, County Hall, Carrigrohane Road, Co. Cork Tel: 021-4276891; Fax: 021-4276321.

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above.

APPLICATION TO THE ENVIRONMENTAL PROTECTION
AGENCY FOR A WASTEWATER DISCHARGE LICENCE Agency For a macordance with the Wastewater Discharge (Authorisation) Regulations 2007, Water Services Southern Division of Cork County Council, Carrigrohane Road, Cork is applying to the Environmental Protection Agency for a Wastewater Discharge Licence for the

	agglomeration	of Innishar	non at the fo	lowing locations	
	Plant Name	6 2	Location	National	
	Innishannon	WMI5.	Farnahoe. Innishannon		
l	Discharge	Aunction	Townland	Receptor	Grid Ref.
ı	Primary 1	Main	Innishannon	Bandon River	N056886

A copy of the application for the Wastewater Discharge Licence and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideratio of the Application shall, as soon as is practicable after receipt by the Agency, be available for inspection or punchase at the

Environmental Protection Agency, PO Box 3000. Johnstown Casile Estate, Co. Wexford, Lo Call 1890 335 599; Tel: 053-9160600; Fax: 053-9160699; Email: info@epa.ie and at

Cork County Council Offices, Water Services South
County Hall, Carrigrohane Road, Co. Cork
Tel: 021-4276891, Fax: 021-4276321.

ubmissions in relation to the application may be made to ne Environmental Protection Agency at its headquarters

d at Cork County Council Offices, Water Services South County Hall, Carrigrohane Road, Co. Cork Tel. 021-4276891; Fax: 021-4276321 ons in relation to the application may be made to onmental Protection Agency at its headquarters

NORTHERN DIVISION

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

AGENCY FOR A WASHEWAITE DISCHARGE LICENCE in accordance with the Wastewater Discharge (Authorisation) Regulations 2007, Water Services Northern Divesion, Cork County Council, Annabella, Mallow is applying to the Environmental Protection Agency for a Wasteward Discharge Licence for the agglomeration of Kildorrery at the following locations.

N110663
Recorbor Grid Ref. River Funshion E172300 N110754
ď

and such intener intormation relating to the application as may furnished to the Agency in the course of the Agency's consideration of the Application shall, as soon as is practicable after receipt by the Agency, be available for inspection or purchase at the:

- Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335 599; Tel: 053-9160600; Fax: 053-9160699; Email: infn@cpa.ie

bmissions in relation to the application may be made Environmental Protection Agency at its headquarters

in accordance with the Wastewater Discharge (Authorisation) Regulations 2007, Water Services Northern Division, Cork County Council, Annabelia, Mallow is applying to the Environmental Protection Agency for a Wastewater Discharge Licence for the

Plant Name	Location	National	Grid Rei
Ballyhooley WWTP	Conva,	E17:	
	Ballyhooley	N09	9051
Discharge Function	n Townland	Remittet	Grid R

A copy of the application for the Wastewater Discharge Licence and such further information relating to the application as may burnished to the Agency in the course of the Agency so considerate in the Application shell, as soon as is protuctable after receipt by the Agency, be available for inspection or purchase at the:

Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexlord, Lo Call 1890 335 599; Tel: 053-9160600; Fax. 053-9160699; Email. info@epa.ie Cork County Council Offices, Annabella, Mallow, Co. Cork. Tel: 022-21123; Fax 022-21893.

ubmissions in relation to the application may be made to be Environmental Protection Agency at its headquarters APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

accordance with the Wastewater Discharge (Authorisation) egulations 2007, Water Services Northern Division. Cark Cou-ouncil, Annabella, Mallow is applying to the Euvironmental rotection Agency for a Wastewater Discharge Licence for the gelomeration of Boherbue at the following locations:

Plent Nan	•6	doubles		National	Grid Ref.
Boherbue \	WTP	Laharn We Boherbue	st.	E126 N10	655
Dischurge	Papetio	Townland	Rece	ptor	Grid Ref.
Primary	Main	Laharn Wesi	Brog	een River	E126753 N101962

Environmental Protection Agency, PO Box 3000. Johnstown Castle Estate, Co Wexford, Lo Call 1890 335 599; Tel: 053-9160600; Fax. 053-9160699; Email:info@epa.ic

Cork County Council Offices, Annabella, Mallow, Co. Cork, Tel: 022-21123, Fax: 022-21893. Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above.

Cork County Council Offices, Annabella, Mallow, Co. Cork Tel: 022-21123; Fax: 022-21893

bmissions in relation to the application may be made a favironmental Protection Agency at its headquarters APPLICATION TO THE ENVIRONMENTAL PROTECTION
AGENCY FOR A WASTEWATER DISCHARGE LICENCE

accordance with the Wasnewater Discharge (Authorisation) guilations 2007, Water Services Northern Division. Cork County juncil. Annabella. Mallow is applying to the Environmental otechion Agency for a Wasnewater Discharge Leence for the glomeration of Killavullen at the following locations:

Plant Name Gilavullen WWTP		Location	National	National Grid Ref.	
		Ballymacmoy, Killavallen	E164897 N099517		
Discharge	Function	Townland	Receptor	Grid Ref.	
	Main	Ballymacmoy	Ross River	E164919 N099521	

A copy of the application for the Wastewater Discharge Licence and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideratio of the Application shall, as soon as is practicable after receipt by the Agency, be available for inspection or purchase at the: Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335 599; Tel: 053-9160600; Fax. 053-9160699; Email: info@epaie

n ar Cork County Council Offices, Annabella, Mallow, Co. Cork Tel: 022-21123; Fax: 022-21893.

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters tescribed above.

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE n accordance with the Wastewater Discharge (Authorisation) deguations 2007, Water Services Northern Division, Cark County Jonaci, Annahella, Maltow is applying to the Environmental Protection Agency for a Wastewater Discharge Locacce for the agglomeration of Ballyclough at the following locations:

Plant Nam	6	Location	Netional (and Ref.
Ballyclough WWTP		Ballyclough	£149318 N101474	
Discharge	Function	Townland	Receptor Finnow Stream	Orld Ref

A copy of the application for the Wastewater Discharge Licence and such further information relating to the application as may b furnished to the Agency in the course of the Agency considerant of the Application stall, as soon as is practicable after receipt by the Agency, be available for inspection or purchase at the:

Environmental Protection Agency, PO Box 3000. Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335 599: Tel: 053-9160600; Fax: 053-9160699; Email: info@epa.te Cork County Council Offices, Annabella, Mallow. Co. Cork Tel: 022-21123, Fax: 022-21893.

Submissions in relation to the application may be made to he Environmental Protection Agency at its headquarters APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

n accordance with the Wastewater Discharge (Authori Regulations 2007, Water Services Northern Division, Cork Cou Council, Annabella, Mallow is applying to the Environmental Protection Agency for a Wastewater Discharge Licence for the agglomeration of Banteer at the following locations: Plant Name Location National Grid Ref.

Baston WWTP Inchidaly F139139

L	Banteer	N98377	
Primary Main	Townland Banteer	River Blackwater	Grid Ref. E139107 N98449

A copy of the application for the Wastewater Discharge Licence and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the Application shall as soon as is practicable after receipt by the Agency, be available for imprection or purchase at the.

Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335 599; Tel: 053-9160600; Fax: 053-9160699; Email: info@epa.re Cork County Council Offices, Annabella, Mallow, Co. Cork Tel: 022-21123; Fax 022-21893.

A copy of the application for the Wastewater Discharge Licence and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the Application shalf, as soon as is practicable after receipt by the Agency, he available for inspection or purchase at the:

Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335 599; Tel. 053-9160600; Fax. 053-9160699; Email: info@epa.ie Cork County Council Offices, Annabella, Mallow, Co. Cork. Tel: 022-21123; Fax: 022-21893.

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above.

WESTERN DIVISION

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE n accordance with the Wastewater Discharge (Authorisation) legulations 2007, Water Services Western Division, Cork Cot Council, Courthouse, Sköbbersen is applying to the Environm Trotection Agency for a Wastewater Discharge Licence for Drimoleague agglomeration at the following locations.

Plant Name	Loca	tion 1	National (irid Ref.	
Drimoleague WV	TP Drim	Drimoleague		E112677 N045277	
Discharge Fun	ction Town	land Rece	gtaje	Grid Ref.	
Primary Majo		mes River	Ruagagh	E112681 N045309	

A copy of the application for the Wastewater Discharge Leer and such further information relating to the application as in urnished to the Agency in the course of the Agency's conside of the Agency in the course of the Agency's considered the Agency, be available for inspection or purchase at the

Environmental Protection Agency, PO Box 3000. Johnstown Castle Estate, Co. Wextord, Lo Call 1890 335 599. Tel: 053-9160600; Fax: 053-9160699; Email: mfo@epa.re nd at Cork County Council Water Services (Western Division). Courthouse, Skibbereen, Co. Cork. Tel: 028-21299; Fax. 028-21995.

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above. APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

n accordance with the Wastewater Discharge (Authorisation) egulations 2007, Water Services Western Division. Cork County Jouncil. Courthouse, Skibbereen is applying to the Euworoumental fotection Agency for a Wastewater Discharge Licence for "moleague aggiomeration at the following locations.

Discharge	Function	Townsau		Grid Ref.
Primary	Maio	Timoleague	Courtmacsherry	E147200
1		_		N043523
Secondary	Minor	Timoleague		E147132 N043496
	i		Estuary	E147141
Secondary	Minor	Timoleague	Courtmacsherry Estuary	N043507
		1940 1	Courtmacsherry	
Secondary	Minor	1 imoleague	Estuary	N043702
Secondary	Minor	Timologoue	Courtmacsherry	E147176
Secondary	IMITIO	Timorcague	E-t	NO. 2780

Cork County Council proposes to construct a new wastewater treatment plant at Cullenagh, Courtmacsherry, Co. Cork, Grid Reference (E149710, NM2520). It is proposed to discharge trea wastewater from this plant to Courtmacsherry Estuary The proposed discharge location is detailed in the table below

Discharge	Franction	Townland	Receptor	Grid Ref.
	Main	Cullenagh	Courtmacsherry Estuary	E150732 N042818
and such fur furnished to of the Applic	ther inform the Agency ation shall.	nation relation in the course as soon as is	stewater Discharg g to the application of the Agency's s practicable after on or purchase at	on as may be consideration receipt by

Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co Wexford, Lo Call 1890 335 599; Tel: 053-9160600; Fax: 053-9160699; Email: info@epa.ie

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above.

rk County Council Water Services (Western Division), urthouse, Skibbereen, Co. Cork.

copy of the application for the Wastewater Discharge Licence id such further information relating to the application as may britished to the Agency in the course of the Agency's consideration the Application shall, as soon as is practicable after receipt by e Agency, be available for inspection or purchase at the

- Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335 599; Tel: 053-9160600; Fax: 053-9160699; Email: info@epa.re
- d at Cork County Council Water Services (Western Division) Courthouse, Skibbereen, Co. Cork. Tel. 028-21299; Fax. 028-21995. submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Wastewer Discharge (Authorisation) Regulations 2007, Water Services Western Division, Cork County Council, Courthouse, Skibberren is applying to the Environmental Protection Agency for a Wastewert Discharge Lecence for Ballydelnob agglomeration at the following locations.

Ballydehob	WWTP	Ballydehob		98960 35286
Discharge Primacy	Function Main	Townland Ballydehob	Receptor Ballydehob B	Grid Ben. BO99090 N035099

Cork County Council proposes to construct a new wastewater treatment plant at Ballydehob, Co. Cork, Grid Reference (E098949, N035278). It is proposed to discharge treated wastewater from this plant to Ballydehob Bay The proposed ocation is detailed in the table below: Discharge Function Townland Receptor Grid Ref.
Primary Main Ballydehob Ballydehob Bay E099090

Copy of the application for the Wastewarer Discharge Licente and such further information relating to the application as may burnished to the Agency in the course of the Agency's consideration of the Application shall, as soon as is practicable after receipt by the Agency, be available for inspection or purchase at the. ⁷ Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, La Cail 1890 335 599; Tel: 053-9160600; Fax: 053-9160699; Email. into@epa.ie

nd at Cork County Council Water Services (Western Division). Courthouse, Skibbereen, Co. Cork. Tel: 028-21299; Fax: 028-21995. Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters described above.

APPLICATION TO THE ENVIRONMENTAL PROTECTION

In accordance with the Wastewater Discharge (Authorisation) Regulations 2007, S.I. No. 684 of 2007, Water Services (Western Division), Cark County Council, Courthouse, Skibberern, Co. Council, sapplying to the Environmental Protection Agency for a Wastewater Discharge Licence for file Casiletowashend agglomeration at the following locations.

Scotler	Bay	N031130
Cork County Council proposes to co Treatment Plant at Castletownshend (E118620 N031623). It is proposed to wastewater from this Plant to Castle	l. Co. Cork. G o discharge tr	nd Keterence eated

Discharge Function Townland Recorder Gold Ref.
Primary Major Castletownshend Castlehaven E118895
N031628 copy of the application for the Wastewater Discharge Licence

Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co. Wexford, Lo Call 1890 335 599: Tel: 053-9160600; Fax: 053-9160699; Ernail: ιπτο@epa.te

Submissions in relation to the application may be made to the Environmental Protection Agency at its headquarters

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di at Oark County Council Water Services (Western Division). Courthouse, Skibbereen, Co. Cork Tel: 028-21299, Fax: 028-21995.