## Comhairle Contae Chorcaí Cork County Council

Halla an Chontae, Corcaigh, Éire.

Fón: (021) 4276891 • Faics: (021) 4276321 Suíomh Gréasáin: www.corkcoco.ie

County Hall, Cork, Ireland.

Tel: (021) 4276891 • Fax: (021) 4276321

Web: www.corkcoco.ie



Ms Ana Bolger, Programme Officer, Environmental Licencing Programme, Office of Climate, Licensing & Resource Use, Environmental Protection Agency, PO Box 3000, Johnstown Castle Estate, Co Wexford.

21st January 2010

Re: Applications for Waste Water Discharge Licences in respect of Ballycotton, Carrignavar and Glenville.

Dear Ms Bolger

I refer to your letter of 14th January last

Please find enclosed the fees totalling \$30,000.00 for the three applications mentioned above.

Please note these applications were submitted as part of the December 22<sup>nd</sup> batch because our preliminary investigations into the p.e. for each agglomeration suggested that these applications fell into the certification category.

This is the reason the applications were submitted later that the original deadline of June 22nd 2009.

I trust the Agency can now continue with the process of registering and considering these applications.

ours Sincerely

Director of Services

Area Operations South Cork Co Council,

Co Hall

Cork.

## Comhairle Contae Chorcaí Cork County Council

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



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

Our Ref.: CB/BCTN/221209

22 December 2009

Re: Waste Water Discharge Licence Application for the Ballycotton Agglomeration

Dear Sir/Madam,

Please find enclosed the Waste Water Discharge Licence Application for the Ballycotton Agglomeration

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

- 1 No. signed original hand copy.
- 1 No. copy of the signed original.
- 2 No. CD-ROMs with the documentation in electronic searchable PDF.
- 1 No. CD with Geo-referenced digital drawing files and tabular data templates.

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

Yours faithfully,

Patricia Power

Director of Services

## Comhairle Contae Chorcaí Cork County Council

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

Suíomh Gréasáin: www.corkcoco.ie



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

16th December, 2009

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

Dear Mr. Clinton,

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

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

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

Yours faithfully,

Louis Duffy, Director of Service,

Environment & Emergency Services Directorate

# APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTE WATER DISCHARGE LICENCE



Waste Water Discharge Licence Application for the Agglomeration of **Ballycotton** under the Wastewater Discharge Authorisation Regulations S.I. 684 of 2007.

Water Services Name: Cork County Council, Southern Division.

Category of Application: 500-1000 PE.

Submitted To: Licencing Unit, Environmental Protection Agency, Wexford.

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

This is a draft document and is subject to revision.



# Waste Water Discharge Licence Application Form

EPA Ref. No:

#### **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. V. 2.	11/10/07 18/10/07	N/A Inclusion of a Note 1 superscript for Orthophosphate in Tables D.1(i)(b) & D.1(ii)(b).	requirement for filtered
V.3.	13/11/07	Amend wording of Section F.2 to include 'abstraction'.	<del>-</del>
		Amend wording of Checklist in Annex to reflect wording of Regulation 16(5) of S.I. No. 684 of 2007.  Inclusion of unique point code for each point of discharge and storm water overflow.	The state of the s
		Inclusion of unique point code for each point of discharge and storm water overflow.	To aid in cross-referencing of application documentation.
V.4	18/04/08	overflow. Inclusion of requirement to provide for name of agglomeration to which the application relates.	To accurately determine
		Amend wording of Section B.7. (iii) to reflect the title of Water Services Authority.	
		Addition of new Section B.9 (ii) in order to obtain information on developments yet to contribute to the waste	· · · ·
		water works.  Addition of sub-sections C.1.1 & C.1.2 in order to	To obtain accurate information on design and spill frequency from these structures.
		clarify information required for Storm water overflow and pumping stations within the works.	To acquire information on
		Amend Section D.1 to include a requirement for monitoring data for influent	



## Waste Water Discharge Authorisation Application Form

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

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

#### **CONTENTS**

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**ANNEX 1: TABLES/ATTACHMENTS** 

**ANNEX 2: CHECKLIST** 



## Waste Water Discharge Authorisation Application Form

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

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

#### **PROCEDURES**

The procedure for making and processing of applications for waste water discharge 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 (within the two weeks prior to date of application) 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 direction of north.
- All drawings should, generally, be to a scale of between 1:20 to 1:500, depending upon the degree of detail needed to be shown and the size of the facility. Drawings delineating the boundary can be to a smaller scale of between 1:1000 to 1:10560, but must clearly and accurately present the required level of detail. Drawings showing the waste water treatment plant location, if such a plant exists, can be to a scale of between 1:50 000 to 1:126 720. All drawings should, however, be A3 or less and of an appropriate scale such that they are clearly legible. Provide legends on all drawings and maps as appropriate.
- In exceptional circumstances, where A3 is considered inadequate, a larger size may be requested by the Agency.

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

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

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. 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 inspection

Non-Technical Summary

Ballycotton is situated approximately seventeen kilometres southeast of Midleton and four kilometres south of Shanagarry village. The Village is served by Regional Road No. R-629-147. The village is situated on an elevated headland within an area comprising considerable natural and scenic amenities. In the overall strategy of this Local Area Plan, Ballycotton is designated as a village in East Cork. Ballycotton has experienced significant development in recent years.

#### The Waste Water Works and the activities carried out therein.

The sewerage network in Ballycotton comprises two catchments, The Western Catchment and the Eastern Catchment. Waste water from the Western Catchment flows by gravity to the septic tank, which is located near to the slipway in the middle of the village. It then discharges into Ballycotton Bay. Waste water from the Eastern Catchment flows directly to an outfall located on the pier. The boundary between the two catchments is approximately located at the Grotto. Both catchments are served by combined sewer systems.

Ballycotton septic tank is currently operated by Cork County Council.

The system is comprised of the following;

- Inlet
- Storm Overflow Chamber
- Septic Tank
- Outlet

When the tank was built in the 1950s the PE contributing to it was far less than at present. The current PE contributing to the septic tank is approximately 403. The passage of sewage through a septic tank helps in the removal of suspended solids but there is very little biological activity and the removal of BOD is not significant.

The septic tank currently does not have any sampling regime in place.

Ballycotton Village is part of the Shannagarry/Garryvoe/Ballycotton Sewerage Scheme, which is included in the Water Services Investment Programme 2007-2009. Cork County Council is currently awaiting departmental approval for funding to proceed with the Ballycotton element of this Scheme. It is proposed to procure the treatment plant under a design, build, operate contract. The operator will be obliged to meet the standards set out in the Urban Waste Water Treatment Regulations and it is likely that an appropriate sampling regime will be put in place.

#### The sources of emissions from the waste water works.

The population load for the Ballycotton agglomeration arises from the following sources:

- **Domestic Population**
- **Commercial Premises**

 Commercial Premises
 School
 Infiltration

The sewage from all non-domestic premises is collected via the existing sewer network and is treated in agricultable of the contract. network and is treated in conjunction with the domestic waste at the Septic tank or discharged directly at the Pier. Ballycotton septic tank does not receive any other sludge imported from other municipal waste water sources or septic tanks.

Other potential emissions from the waste water treatment plant include;

- Odour generated from the Peatment process No recorded issues to
- Noise pollution No recorded Issues to date.
- Leaks The 12" Cast Iron Discharge Pipe from the septic tank is leaking where some of the joints have been damaged. Complaints have been received from local fishermen.

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 discharges are to Ballycotton Bay which is located to the North of the village. The average outflow from the Western Catchment septic tank is in the order of 125m<sup>3</sup>, which is equivalent to a PE of 557. The average outflow from the Western Catchment is in the order of 93m<sup>3</sup>, which is equivalent to a PE of 414. The proposed plant will be initially designed to cater for a PE of 1200.

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

#### **Technology**

The new WWTP will include the following elements;

Grit Removal and Screening

- Storm Holding Tank
- Inlet Flow Measurement Chamber
- Extended Aeration Tanks
- Clarifier
- Sludge Picket-Fence Thickener
- Final Effluent Flow Measurement Chamber
- UV Channel
- Control House
- Odour Control Units

#### **Techniques**

The new WWTP shall be operated and maintained in accordance with best practice and any performance requirements stipulated in the Employer's Requirements.

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

The complete process will be upgraded with the construction of the new WWTP. The treatment capacity, the discharge quality and control systems will be improved to ensure that no significant pollution is caused.

It is likely that under the DBO contract for the new WWTP, a Performance Management system will be required. Such a system would provide a uniform approach to dealing with management issues including procedures for dealing with plant operation and in particular for dealing with emergencies or failure to meet treated effluent standards.

Failure to meet the specified treated effluent standards may result in financial

Failure to meet the specified treated effuent standards may result in financial penalties to the operating contractor. As a result, the risk of environmental pollution from the treatment plant should be reduced.

#### Measures planned to monitor emissions into the environment.

No sampling is currently carried out on the influent or effluent. It is likely that under the Employers Requirements for Operation and Maintenance the Contractor will be obliged to implement in full, the requirements of a Performance Management System. In providing this service, the Contractor would monitor the waste water treatment plant assets and operation, which would include undertaking sampling, monitoring and analysis of the wastewater and Sludge. Cork County Council Environmental Department, Inniscarra has carried out some ambient monitoring in Ballycotton Bay as part of this application. Youghal Harbour is the nearest coastal water body monitored by the EPA.

#### **SECTION B: GENERAL**

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

#### **B.1** Agglomeration Details

Name of Agglomeration: Ballycotton

#### **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:	County Hall	
	Carrigrohane Road	
	Cork	
	alt, alth	
Tel:	021 4276891	
Fax:	021 4276321 <u>Rojir</u> e	
e-mail:	and the second s	•

<sup>\*</sup>This should be the name of the water services authority in whose ownership or control the waste water works is vested.

<sup>\*</sup>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*:	Patricia Power 💉
Address:	Director of Services: Operational Water Services
	Floor 5 (Tower)
	County Hall
	Cork
Tel:	021 4285285
Fax:	021 4276321
e-mail:	Patricia.power@corkcoco.ie

<sup>\*</sup>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

<sup>\*</sup>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

<sup>\*</sup>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
	other /	

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

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

B. 1	Michael Savage
Name*:	Michael Savage
Address:	Ballycotton
	Cork
	altietr.
	C
Grid ref	199209 E, 064224 N
(6E, 6N)	
Level of	Primary
Treatment	
Primary	021 4631554
Telephone:	
Fax:	021 4632023
e-mail:	michael.savage@corkcoco.ie

<sup>\*</sup>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
	<b>✓</b>	

#### **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	Open Pipe to Sea (300mm dia. Cast Iron)
Discharge	
Unique	SW1BCTN
<b>Point Code</b>	
Location	Ballycotton, Near Cow's Slip
Grid ref	199280 E, 064268 N
(6E, 6N)	

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

Attachment included	¥es	No
37.0	ay off.	

#### 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.

	Q <sup>r</sup>
Type of	Open Pipe to 🗯 (300mm dia. Cast Iron)
Discharge	Codic
Unique	SW2BCTN
<b>Point Code</b>	
Location	Ballycotton, On Pier
Grid ref	200017 E, 063889 N
(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	Open Pipe to Sea (300mm dia. Cast Iron)
Discharge	
Unique	SW3BCTN
<b>Point Code</b>	
Location	Ballycotton, Near Cow's Slip
Grid ref	199280 E, 064268 N
(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	ment included Yes	
	to see 160.	

#### **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 & uncil
Address:	Planning Department
	County Hall
	Carrigrohane Road
	Cork
Tel:	021 4276891
Fax:	021 4867007
e-mail:	planninginfo@corkcoco.ie

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

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

Local Authority Planning File Reference №:	Not Available

**Attachment B.6** should contain **the most recent** planning permission, including a copy of **all** conditions, and where an EIS was required, copies of any such EIS and any certification associated with the EIS, should also be enclosed.

Where planning permission is not required for the development, provide reasons, relevant correspondence, etc.

Attachment included	Yes	No
		✓

#### **B.7** Other Authorities

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

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

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

Within the SFADCo Area	Yes	No
		✓

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.

	AV AV
Name:	Health Services Executive Southern Region
Address:	North Lee Local Heath Office
	Abbeycourt House
	George's Quay, Corks
Tel:	021 4965511 & <sup>©</sup>
Fax:	
e-mail:	info@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
		<b>✓</b>

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

Attachment included	Yes	No
		<b>✓</b>

#### **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 (within two weeks prior to date of application) and by way of a . 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 one (1) copy of the application.

Attachment included	Yes	No
	1136.	

#### B.9 (i) Population Equivalent of Agglomeration

#### TABLE B.9.1 POPULATION EQUIVALENT OF AGGLOMERATION

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

~05.75g

Population Equivalent	971
Data Compiled (Year)	2009
Method	House Counts and
	Population Data

#### **Domestic Contribution**

There are 144 Existing Dwellings in the Western Catchment. There are 107 Existing Dwellings in the Eastern Catchment. The total number of existing dwellings connected to the public sewer in Ballycotton is 251.

#### Non Domestic Contribution

The non domestic contribution is made up of 3 Public Houses, 2 Restaurants, 1 Hotel, 1 Post Office & Shop, 1 Garage, 1 Garda Station, 1 Lifeboat Station and 1 School.

#### Pending Development

13 Houses in the Eastern Catchment are currently served by domestic septic tanks. It is likely that these will be connected to the public sewer during the lifetime of this licence. A further 23 Dwellings have been granted planning permission within the agglomeration boundary. This means that an additional 36 houses will be connected to the public sewer.

The total number of dwellings, existing and future is 287. Assuming that there are c2.8 persons per household (CSO Data), this gives a PE of 804. Assuming that the non-domestic contribution is 15% of the domestic, adds another PE of

121. This brings the total PE to 925. Finally an additional 5% should be added to the current figure over what already has been allowed, to account for further future development. This adds an additional PE of 46, resulting in a grand total of 971.

#### 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
- 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 PE of 971 obtained in the previous section includes the following; A PE of 101 from dwellings that may connect to the public sewer during the course of the licence (Existing and Planned), A PE of 46 which is an additional 5% allowance for future development. This allows for a total potential increase of up to 147PE during the course of the licence.

B.9 (iii) FEES

State the relevant Class of waste water discharge as per Column 1 of the Second Schedule, and the appropriate ee as per Columns 2 or 3 of the Third Schedule of the Waste Water Discharges (Authorisation) Regulations 2007, S.I. of copy No. 684 of 2007.

	<u>, 0</u> ,	
Class of waste water	discharge	Fee (in €)
500-1000	Corr	€10,000

Appropriate Fee Included	Yes	No
		<b>√</b> *

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

#### **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.

Ballycotton Village is part of the Shannagarry/Garryvoe/Ballycotton Sewerage Scheme, which is included in the Water Services Investment Programme 2007-2009. Cork County Council is currently awaiting departmental approval for funding to proceed with the Ballycotton element of this Scheme. It is proposed

to procure the treatment plant under a design, build, operate contract. This proposal has been granted part 8 planning approval.

**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
	✓	

#### **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.

#### Not Applicable

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

-	. 113	
Attachment included	<sub>lotte</sub> Yes	No
	्ट वार्य स <del>्त्र</del>	✓

#### **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.

Foreshore Licence file reference No. MS51/8/250, effective from the 4/4/1953, for the "laying of a sewage outfall pipe on state foreshore", is currently in place.

A Foreshore Licence Application has been lodged with the Department of Agriculture Fisheries and Food, for a new outfall from the proposed WWTP.

**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
		<b>✓</b>

#### **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.

#### **C.1** Operational Information Requirements

Ballycotton is situated approximately seventeen kilometres southeast of Midleton and four kilometres south of Shanagarry village. The Village is served by Regional Road No. R-629-147. The village is situated on an elevated headland within an area comprising considerable natural and scenic amenities. In the overall strategy of this Local Area Plan, Ballycotton is designated as a village in East Cork. The village has experienced significant development in recent years.

The sewerage network in Ballycotton comprises two catchments, The Western Catchment and the Eastern Catchment. Waste water from the Western Catchment flows by gravity to the septic tank, which is located near to the slipway in the middle of the village. It then discharges into Ballycotton Bay. Waste water from the Eastern Catchment flows directly to an outfall located on the pier. The boundary between the two catchments is approximately located at the Grotto. Both catchments are served by combined sewer systems.

The system is comprised of the following;

- Inlet
- Storm Overflow Chamber
- Septic Tank
- Outlet

Ballycotton septic tank is currently operated by Cork County Council.

When the tank was built in the 1950s the PE contributing to it was far less than at present. The current PE contributing to the septic tank is approximately 403. The passage of sewage through a septic tank helps in the removal of suspended solids but there is very little biological activity and the removal of BOD is not significant.

#### **Primary Treatment**

Under normal operating conditions all of the influent enters the septic tank, which has a capacity of 11.4m<sup>3</sup>. Here the heavy solids settle to the bottom of the tank and are stored for collection. The effluent then flows directly to the primary discharge point. When this capacity is calculated in terms of PE, a PE of 50-60 is obtained. This is much less than the current PE of 403. The septic tank is badly overloaded and is not operating efficiently. It does not meet the required standard.

C.1.1 Storm Water Overflows

There is one Storm Water Overflow (SWO) associated with the Septic Tank. The inlet works at the septic tank include a SWO chamber. Storm water flows are discharged into Ballycotton Bay, via the primary discharge point.

There is no information regarding the frequency of storm water overflows, or the quantities discharged.

There are no designated bathing waters or shell fish waters that are affected by the SWOs. Therefore the quality standards or objectives for the aquatic environment considered in the DoEHLG "Procedures and Criteria in Relation to Storm Water Overflows" (1995) are not applicable. (The nearest designated bathing area is The Beach at Garryvoe. This is located approximately 3km the discharge point. The nearest designated shellfish waters are located in Ballymacoda Bay which is approximately 15km from the discharge point.

The DoEHLG "Procedures and Criteria in Relation to Storm Water Overflow" (1995), provides assessment criteria for existing SWOs. These criteria are discussed below;

1. Determine if the SWO causes significant visual or aesthetic impact and public complaints.

There are no records of public complaints regarding the SWOs to date.

2. Determine if the SWO causes deterioration in water quality of the receiving water.

The SWO at the septic tank is connected to the primary discharge point. Therefore there is no specific data regarding the overflows from the septic tank.

3. Determine if the SWO gives rise to failure in meeting the requirements of National Regulations on foot of EU Directives (Bathing Waters etc).

There is no information available regarding the quality of the SWOs, therefore and assessment cannot be made.

4. Determine if the SWO operates in dry weather.

There are no records to indicate if the SWOs operate in dry weather.

The proposed new WWTP will include Storm Holding Tanks which will discharge to the proposed new outfall.

#### **C.1.2 Pumping Stations**

Not Applicable as there are no pumping stations within the agglomeration.

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

Attachment included	citon by reev	Yes	No
	Titis of town		<b>✓</b>

#### C.2 Outfall Design and Construction

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

**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
		<b>✓</b>

## 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 be submitted via the following web based link: <a href="http://78.137.160.73/epa\_wwd\_licensing/">http://78.137.160.73/epa\_wwd\_licensing/</a>. 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.

## 

Details of all discharges of waste water from the agglomeration should be supplied via the primary discharge point from the agglomeration 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 D.1(iii)(a) should be completed for **each** storm water overflow. Individual Tables must be completed for each discharge point.

Where monitoring information is available for the influent to the 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
SW1BCTN	Primary	Cork County Council	Coastal	Ballycotton Bay	None	199280 E	064268 N
SW2BCTN	Secondary	Cork County Council	Coastal	Ballycotton Bay	None	200017 E	063889 N
SW3BCTN	Storm Water	Cork County Council	Coastal	Ballycotton Bay	None	199280 E	064268 N

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.



#### **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: <a href="http://78.137.160.73/epa\_wwd\_licensing/">http://78.137.160.73/epa\_wwd\_licensing/</a>.

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: <a href="http://78.137.160.73/epa\_wwd\_licensing/">http://78.137.160.73/epa\_wwd\_licensing/</a>.

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 on 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.

## **E.2** Monitoring in respect of Ballycotton Waste Water Discharge Licence Application Form

There is no monitoring system in place for the septic tank. For the purposes of this application samples were collected at the outlets and at an ambient monitoring point and tested by the Environmental Directorate of Cork County Council.

#### **General Laboratory Information**

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

- nH
- Biochemical Oxygen Demand
- Chemical Oxygen Demand

- Suspended Solids
- Ammonia
- Ortho Phosphates
- Total Phosphates
- Chloride
- Sulphate

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

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

Attachment included	Yes	No
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#### 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_TYPES	EASTING	NORTHING	VERIFIED
SW1	Primary Discharge	Shi	199223 E	064233 N	Y
SW2	Secondary Discharge	S	199962 E	063785 N	Y
aSW-1a	Ambient	S	200015 E	063940 N	Y

An individual record (i.e., row) is required for each monitoring and sampling point. Acceptable file formats include Excel, Access or other upon agreement with the Agency. A standard Excel template can be downloaded from the EPA website at www.epa.ie. 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
	✓	



## 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://sw.137.160.73/epa\_wwd\_licensing/">http://sw.137.160.73/epa\_wwd\_licensing/</a>. Tables F.1(i)(a) & (b) should be completed for the primary discharge point. Surface water monitoring locations upstream and downstream of the discharge point shall be screened for those substances listed in Tables F.1(i)(a) & (b). Monitoring of surface water shall be carried out at not less than two points, one upstream from the discharge location and one downstream.
- 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, hydrology, meteorological data, water quality, geology, The latter must in particular present the aquifer hydrogeology. 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.
- 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/EEC<sup>1</sup> in accordance with the procedures laid down in Article 21 of that Directive,
  - (c) a special area of conservation within the meaning of the Natural Habitats Regulations, or
  - (d) an area classified pursuant to Article 4(1) or 4(2) of Council Directive 79/409/EEC<sup>2</sup>;
  - <sup>1</sup>Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora (OJ No. L 206, 22.07.1992)
  - <sup>2</sup>Council Directive 79/409/EEC of 2 April 1979 on the conservation of wild birds (OJ No. L 103, 25.4.1979)

- Describe, 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.

Attachment included	Yes	No
	<b>✓</b>	

#### F.1 Assessment of Impact on Receiving Surface Water or Ground Water

#### **Existing Environment and Impacts of Discharges**

Ballycotton village is located within Hydrometric area 19, however the discharges are to Ballycotton Bay (Water Body Code IE\_SW\_040\_0000), the adjoining coastal area. Ballycotton Bay has "Good" status and has been classified as "Not at Risk" of achieving "good" status by 2015 under the Water Framework Directive Article 5 Characterisation (2004).

Water quality in Ballycotton Bay is not monitored by the EPA. Youghal Harbour is the nearest coastal water body monitored by the EPA, where the water quality is classed as unpolluted.

#### Foreshore Licence & Current Discharge Standards

There is a Foreshore Licence for Bally cotton; reference number MS51/8/250. The licence was issued to Cork Council for the "Laying of a sewerage outfall pipe on state foreshore". This Licence has been in effect since the 4/4/1953.

A Foreshore Licence Application has been lodged for a new outfall from the proposed WWTP

Schedule 5 of the European Communities Environmental Objectives (Surface Waters) Regulations 2009 (S.I. No. 272 of 2009) sets out "Criteria for Calculating Surface Water Ecological Status and Ecological Potential." These are summarised for coastal waters in **Table F1.1 below**.

		Coastal water body		
Biological quality elements	Classification system	Ecological quality ratio	Good- moderate boundary	CCC Sampling Data Ambient Monitoring
		Good- moderate boundary	Chlorophyll (µg/l)	Point aSW-1a
Phytoplankton	Phytoplankton biomass (Chlorophyll)	0.33	5.0 (median value) and 10.0 (90 percentile value)	-
			value and 20 (90 percentile value)	
	Phytoplankton composition	0.43	Percentage of single taxa counts above thresholds	-
Macroalgae	Rocky shore	Good-moderate boundary  0.80		CCC Sampling
	reduced species list multimetric system			Data -
	Opportunistic macroalgae multimetric system			-
Thermal	conditions	Got itigastal w	ater body	CCC Sampling Data
Temperature	مي	Not greater than ambient temper the mixing zone	ature outside	-
Oxygenatio	n conditions	Coastal w	ater body	CCC Sampling Data
Dissolved oxyg	en lower limit	(35psu) 95%ile: Saturation		-
Dissolved oxyg	en upper limit	(35psu) 95%ile- Saturation	<120%	-
Nutrient	conditions	Coastal w	ater body	CCC Sampling Data
Dissolved Inorg (mg N/I)	anic Nitrogen	(0 psu) ≤2.6 mg (34.5psu) ≤0.25		<0.5 (Limit of Detection)

Table F1.1 Criteria for Calculating Surface Water Ecological Status and Ecological Potential

#### Ecological Reports and Hydrodynamic and Dispersion Modelling

The Ecological Report and The Hydrodynamic and Dispersion Modelling of Ballycotton Bay Co. Cork, for the proposed Shanagarry, Garryvoe, Ballycotton Sewerage Scheme have been included in **Attachment F**. These should have relevance, given that the proposed outfall is near the existing primary discharge point.

#### Assessment of Relevant Legislation Applicable to Ballycotton Discharge

The following assesses the relevant European Union Directives and Irish Statutory Legislation that is applicable to the discharge standards at Ballycotton.

- 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 (Not applicable),
- Drinking Water Directives 80/778/EEC (Not applicable),
- Urban Waste Water Treatment Directive 91/271/EEC,
- Habitats Directive 92/43/EEC,
- Bathing Water Directive 76/160/EEC, and
- Shellfish Waters Directive 79/923/EEC.

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

Council Directive 2006/11/EC recognises the need for action to be taken by member states to protect the aquatic environment from pollution, in particular that caused by certain persistent, toxic and bioaccumulable substances. The discharge from Ballycotton is primarily from domestic sources. Cork County Council has monitored for the main polluting substances, as part of this application, as defined in the Dangerous Substances Regulations, 2001 (S.I. No. 12/2001). The results are presented in **Attachment E.** 

# Water Framework Directive 2000/60/EC The objectives of the constitution of the constit

The objectives of the Water Framework Directive (WFD) are to protect all high status waters, prevent further determination of all waters and to restore degraded surface and ground water status by 2015. Cork County Council carried out some limited monitoring on the outlet flows to measure compliance against the relevant standards. Ambient monitoring was also carried out on Ballycotton Bay. A copy of the Water Quality Management Plan for this area has been included in **Attachment F.** 

#### Birds Directive 79/409/EEC

The directive aims to conserve and manage populations of wild birds throughout Europe partly through the designation of Special Protection Areas (SPA) for birds and their habitats. The primary discharge point is located within 50m of Ballycotton Bay SPA (site code 004022). The site synopsis for this SPA is included in **Attachment F**.

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

Not Applicable as there are no discharges to groundwater.

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

Not Applicable as there are no abstraction points down stream of the discharge point as it is a coastal discharge.

The Urban Waste Water Treatment Directive 91/271/EEC and Amendment Directive 98/15/EEC

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

Article 7 (a) states that "Member States shall ensure that, by 31 December 2005, urban waste water entering collecting systems shall before discharge be subject to appropriate treatment as defined in Article 2 (9) in the following cases:

- for discharges to fresh-water and estuaries from agglomerations of less than 2 000 p.e.,
- for discharges to coastal waters from agglomerations of less than 10,000 p.e'.

Appropriate treatment is described as that which will allow compliance with other relevant Directives.

The total PE of the Ballycotton agglomeration is 971.

#### Habitats Directive 92/43/EEC

The aim of this Directive is to contribute towards ensuring bio-diversity through the conservation of natural habitats and of wild fauna and flora. While there are no SACs designated in location of the discharge, Ballycotton Bay is designated as an SPA (site code 004022). A site synopsis for the designation is included in **Attachment F**. There are 2 proposed Natural Heritage Areas near Ballycotton. The Primary Discharge Point is located 3500 to the East of Ballycotton, Ballynamona and Shanagarry pNHA (site code 000076). The secondary discharge point is located immediately adjacent to Ballycotton Islands pNHA (site code 001978).

#### Bathing Water Directive 79/160/EEC

Council Directive (76/160/ESC 1975), concerning bathing water quality and the associated Bathing Water Regulations (S.I. No 177 of 1998) lay down quality requirements for inland and coastal waters designated bathing areas. The quality standards rely predominantly on microbiological parameters. The purpose is to ensure that bathing water quality is maintained and if necessary improved so that it complies with specified standards designated to protect health and the environment. The nearest designated bathing area is The Beach at Garryvoe. This is located approximately 3km from the primary discharge point.

<u>EU Shellfish Waters Directive (79/923/EEC); and EU Directive on Health Conditions and the Placing on the Market of live Biovalve Molluscs (91/67/EEC)</u> and associated amendments

There are two main EU directives relating to Shellfish Waters. These are the Shellfish Directives (79/923/EEC) as implemented by the Quality of Shellfish Waters Regulations 2006 (S.I. No 268 of 2006), and the Directive on Health Conditions and the placing on the market of Live Bivalve Molluscs (91/67/EEC) and its associated amendments.

The Shellfish Waters Directive is designed to put in place concrete measures to protect waters, including shellfish waters, against pollution and to safeguard certain shellfish populations from various harmful consequences, resulting from

the discharge of pollutant substances into the sea. The Directive applies to the aquatic habitat of bivalve and gastropod molluscs only.

The Directive sets physical, chemical and microbiological water quality requirements that designated shellfish waters must either comply with ('mandatory' standards) or endeavour to meet ('guideline' standards). The parameters for testing are pH, temperature, coloration (after filtration), suspended solids, salinity, dissolved oxygen, petroleum hydrocarbons, organohalogenated substances, metals (dissolved), faecal coliforms and substances affecting the taste of the shellfish, faecal coliforms are regarded as one of the most significant parameters. Waters must meet certain mandatory values based on the monitoring regime. Designated waters must conform to the set limit values for the certain parameters within six years of designation.

The outfall from Ballycotton septic tank does not discharge to designated shellfish waters. The closest designation is at Ballymacoda Bay which is located approximately 15km from the discharge point. This designation is detailed in **Table F.1.2**. A map showing the location of the shellfish designation has been included in **Attachment F.** 

Production Area	Boundaries	Bed Name	Species	Previous Classifications	Current Classifications
Ballymacoda Bay	Knockadoon Head to Knockaverry	All Beds	Oysters	other use.	В

Table F.1.2 Designation Bivalve Molluses Production Areas in Ireland – October 2006

In accordance with the Live Bivalve Moluscs (Production Areas) designation 2006 and Council Directive 91/492/1910, Ballymacoda Bay has a category B status which means that shellfish from this area have to be treated in a purification centre or a relay been before they can be placed on the market for human consumption. The water quality standards for shellfish in Category B waters is summarised in **Table F.1.3**. The status of the shellfish waters is monitored on a monthly basis by the National Marine Institute.

Category of Waters	Faecal Coliforms / 100g of Flesh	Compliance of Samples	Further Information
A- Immediate Human Consumption	< 300	100% < 300	Not Required
B- Human Consumption After Treatment	300 - 6,000	90% < 6,000	Purification After Relaying
C- Human Consumption After Treatment	6,000 - 60,000	100% < 60,000	Relaying for long period – Intensive Purification.

Table F.1.3 Requirements for Faecal Coliform levels for Live Bivalve Molluscs in Accordance with Directive 91/492/EEC

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

Applicants should submit the following information for each downstream or downgradient drinking water abstraction point. The zone of contribution for the

abstraction point should be delineated and any potential risks from the waste water discharge to the water quality at that abstraction point identified.

ABS_CD	AGG_SERVED	ABS_VOL	PT_CD	DIS_DS	EASTING	NORTHING	VERIFIED
Abstraction Code	Agglomeration served	Abstraction Volume in m³/day	Point Code Provide label ID's	Distance Downstream in meters from Emission Point to Abstraction Point	6E-digit GPS Irish National Grid Reference	6N-digit GPS Irish National Grid Reference	Y = GPS used N = GPS not used

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

An individual record (i.e. row) is required for each abstraction point. Acceptable file formats include Excel, Access or other upon agreement with the Agency. A standard Excel template can be downloaded from the EPA website at www.epa.ie. 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.

**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).

Ballycotton Village is included in the Shannagarry/Garryvoe/Ballycotton Sewerage Scheme, which is included in the Water Services Investment Programme 2007-2009. Cork County Council is currently awaiting departmental approval for funding to proceed with the Ballycotton element of this Scheme. This element is to be designed and ball to allow for expansion in the future. It is proposed to procure the treatment plant under a design, build, operate contract. This proposal has been granted part 8 planning approval.

**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
		<b>✓</b>

# 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 under 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.

Not Applicable as The Water Quality Standards for Phosphorous Regulations (1998) only covers rivers and lakes, not coastal areas.

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	
1		<b>✓</b>	

#### **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.

The proposed plant will be initially designed to cater for a PE of 1200, with an allowance for future expansion up to 3,200 PE to accommodate the treatment of wastewater from Shanagarry and Garryvoe and will include the following elements;

- Grit Removal and Screening
- Storm Holding Tank
- Inlet Flow Measurement Chamber
- **Extended Aeration Tanks**
- Clarifier
- Sludge Picket-Fence Thickener
- Final Effluent Flow Measurement Chamber

 UV Channel
 Control House
 Odour Control Units

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

Attachment included	Yes	No	
		✓	

#### **G.4 Storm Water 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.

A Storm Holding Tank will be provided as part of the proposed plant. The Storm water will discharge to Ballycotton Bay via the new 350mm dia. Outfall.

**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	
		<b>✓</b>	



## 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.

Signed by: Date: 17th Dec 07

(on behalf of the organisation)

Print signature name: Problem OCC

Position in organisation: 05

## SECTION H: DECLARATION

### **Declaration**

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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.

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Signed by :	oses dioi	Date :
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Position in organisation:	To ot o	
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## SECTION I: JOINT DECLARATION

# Joint Declaration Note1

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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.

<u>Lead Authority</u>	ne.
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(on behalf of the organisation)	s of kot and
Print signature name:	ostifed t
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Position in organisation:	
Lead Authority  Signed by: (on behalf of the organisation)  Print signature name:  Position in organisation:  Co-Applicants  Signed by: (on behalf of the organisation)  Print signature name:	
Signed by:	Date :
(on behalf of the organisation)	
Print signature name:	
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.

Consent of copyright owner required for any other use

# TABLE OF CONTENTS ATTACHMENTS FOR BALLYCOTTON APPLICATION

#### Section A

A1\_Map1(Location of Treat. Plant)

A1\_Map2(Location WWTP)

### Section B

B1\_Map3(Agglomeration Boundary)

B2\_Map4(Location Plan of WWTP)

B3\_Map5(Location Of Primary Disc. Pt)

B4 Map6(Location Of Secondary Disc. Pt)

B5\_Map7(Location Of Storm Water Overflow)

B8\_Map8(SiteNotice)

Attachment B9 Balllycotton WWTP Design Report 150909

Attachment B9 Ballycotton Part 8 Planning WWTP Project Description 150909

Attachment B9 WSIP Water Services Investment Programme 2007-09 020909

Ballycotton Site Notice

Ballycotton Newspaper Ad

Ballycotton Newspaper Ad Original

#### Section C

No Attachments

### Section D

No Attachments

#### Section E

Attachment E2 CCC Inniscarra Lab Accreditation 240809

Attachment E4 Ballycotton Analytical Data 071209

## Section F

Attachment F1 Ballycotton Bay Report WFD 250809

Attachment F1 Ballycotton Ecological Report 141009

Attachment F1 Ballycotton Hydrodynamic Modelling 141009

Attachment F1 Ballycotton Bay SPA Site Synopsis 250809

Attachment F1 Ballymacoda Designated Shellfish Water Map 070909

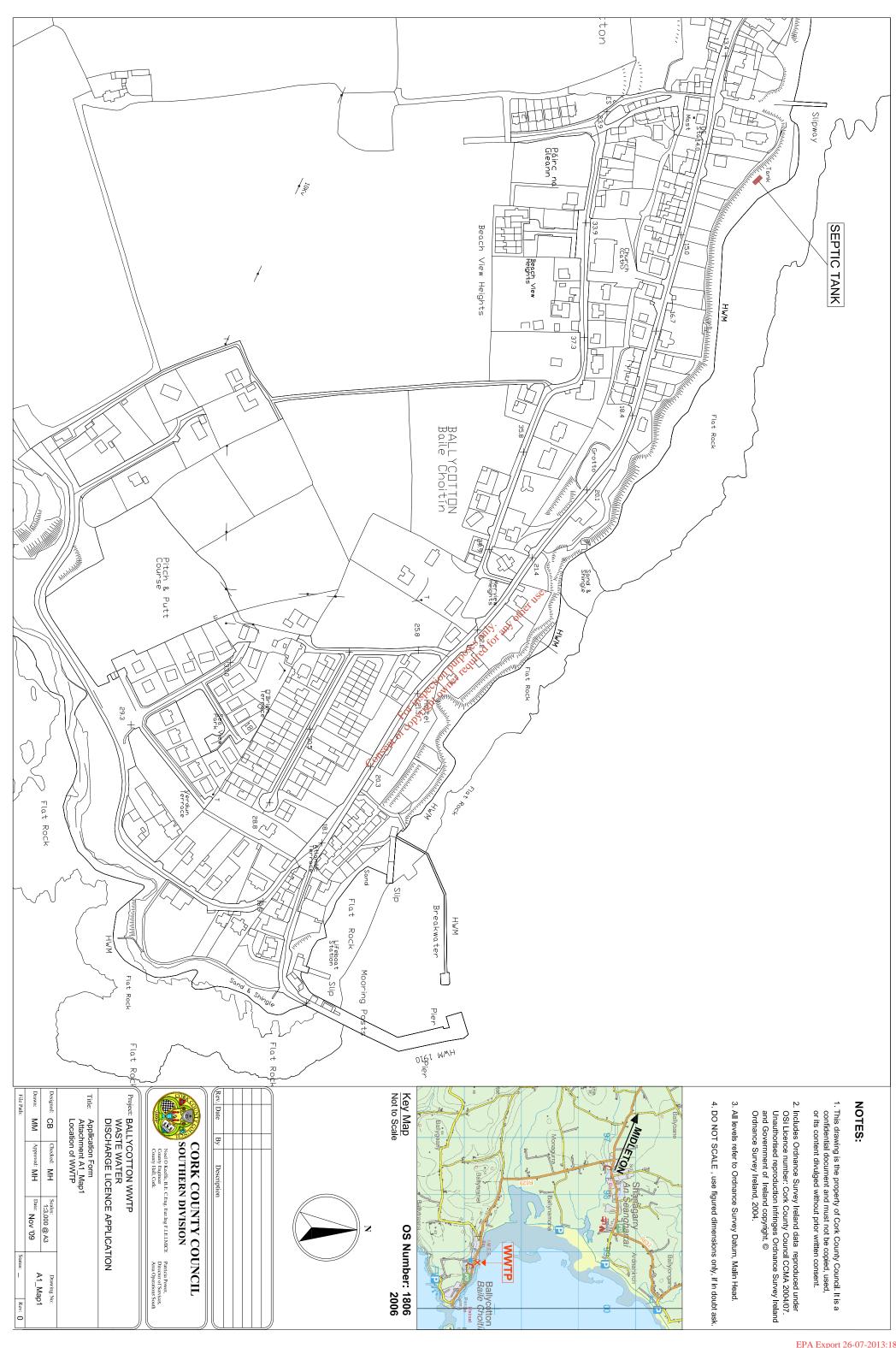
### Section G

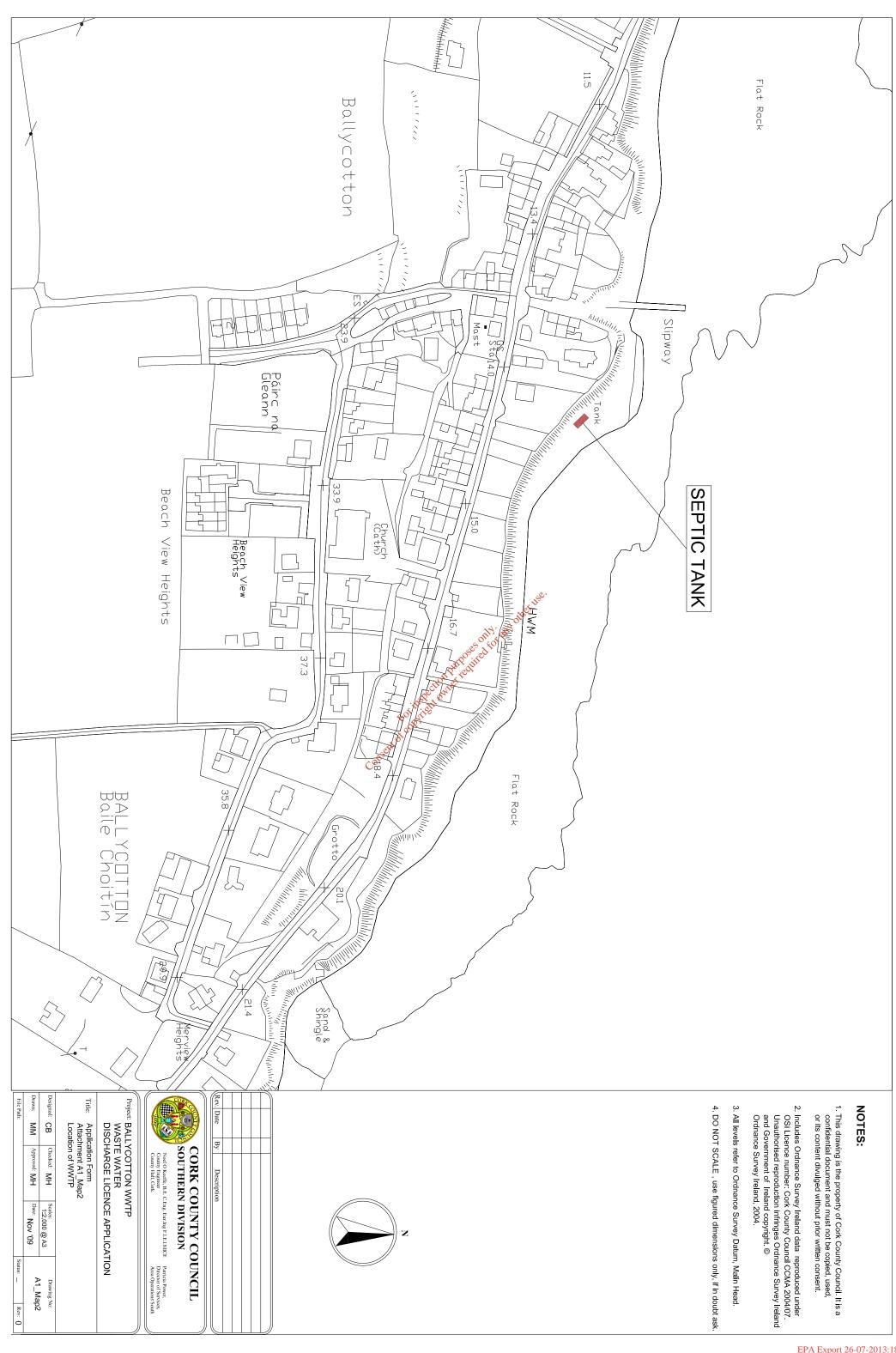
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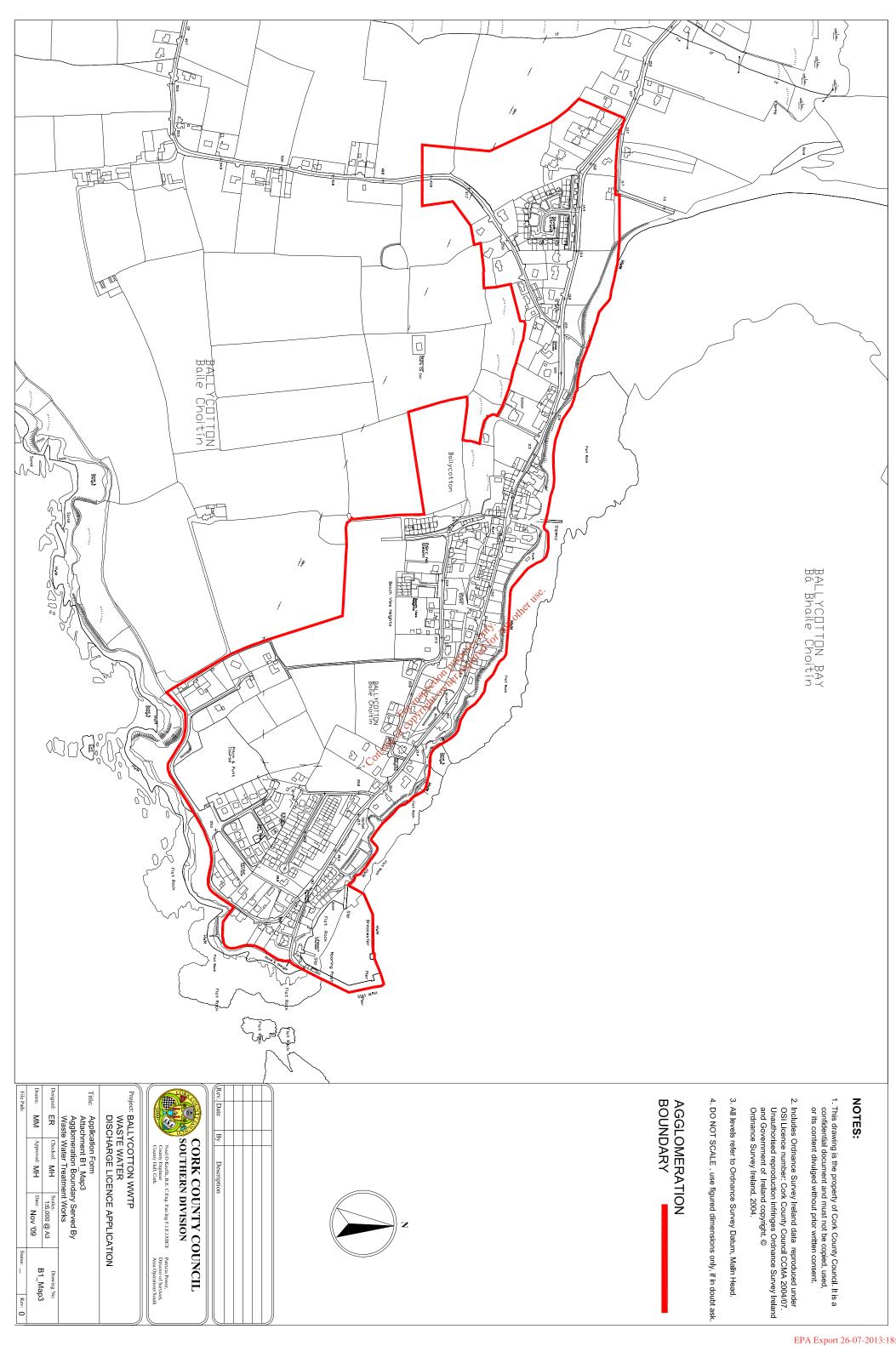
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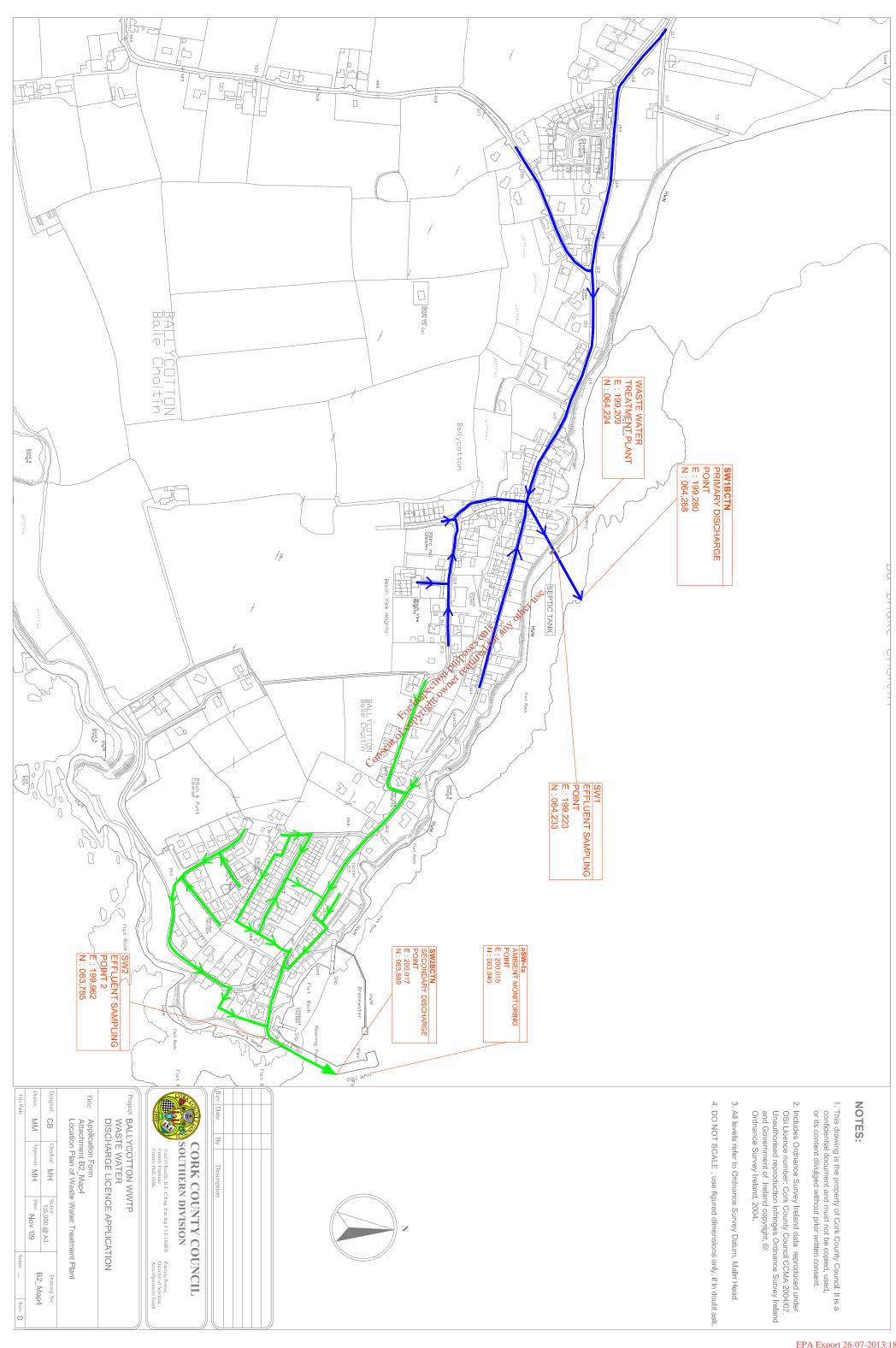
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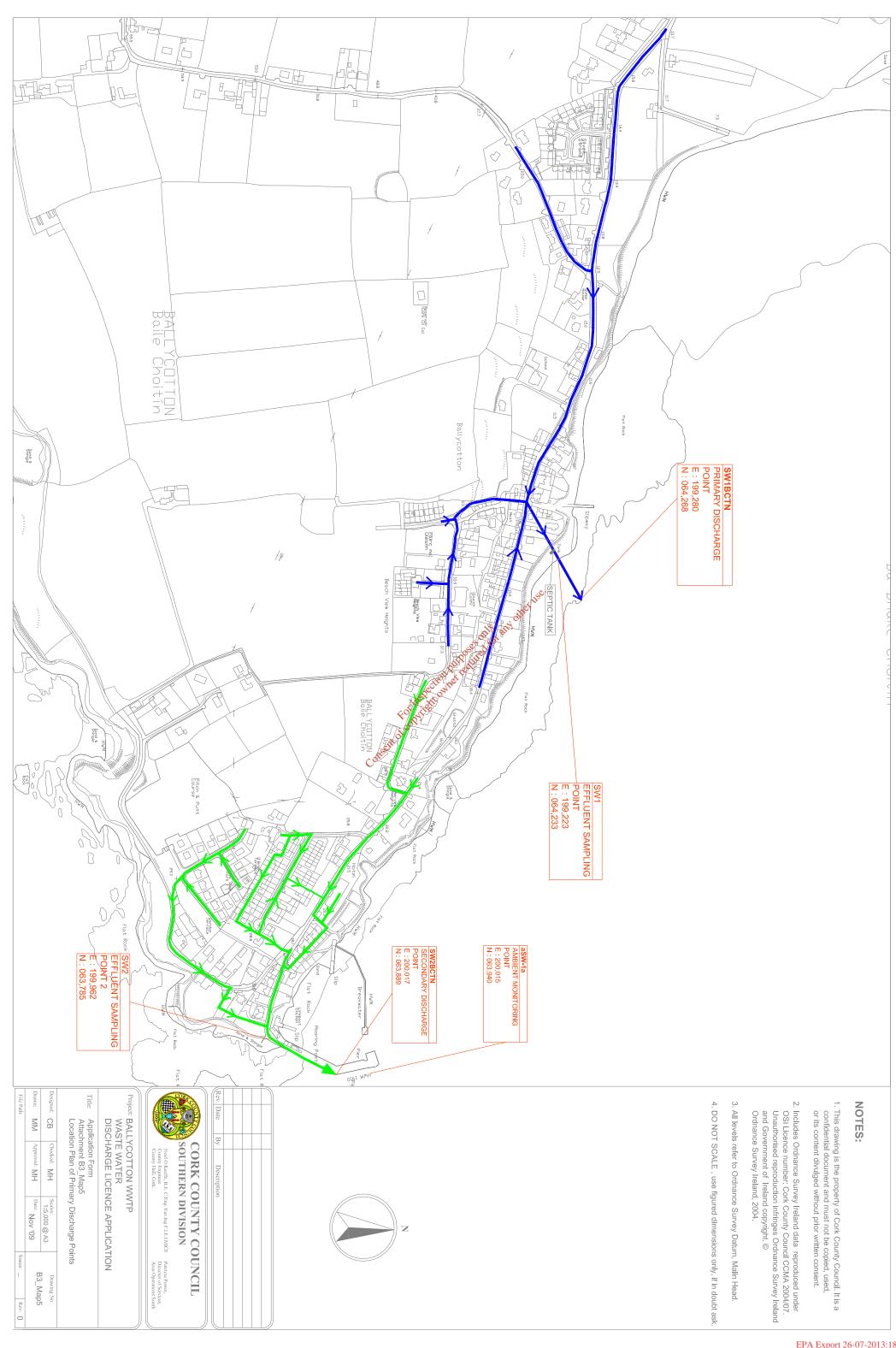
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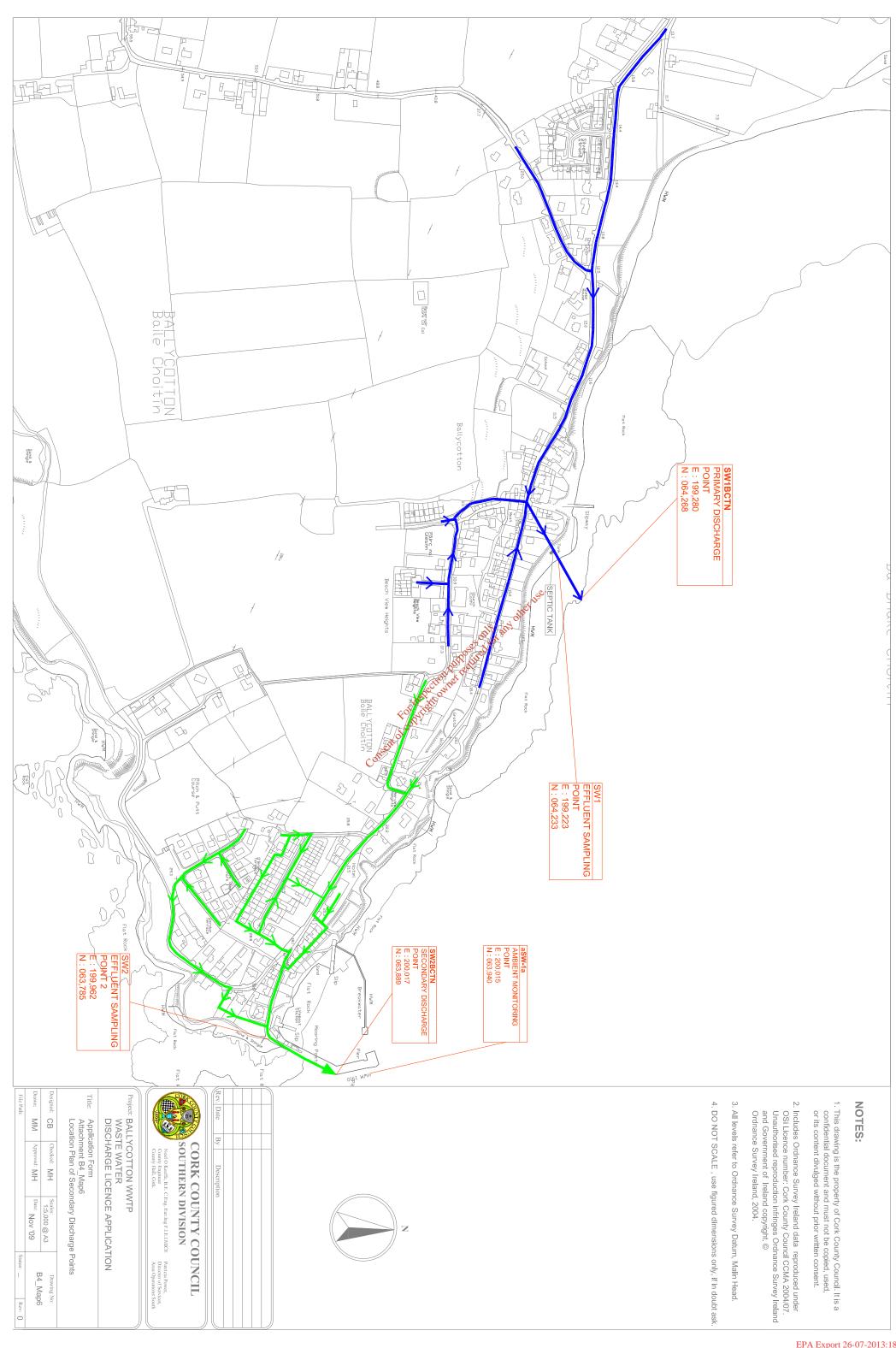


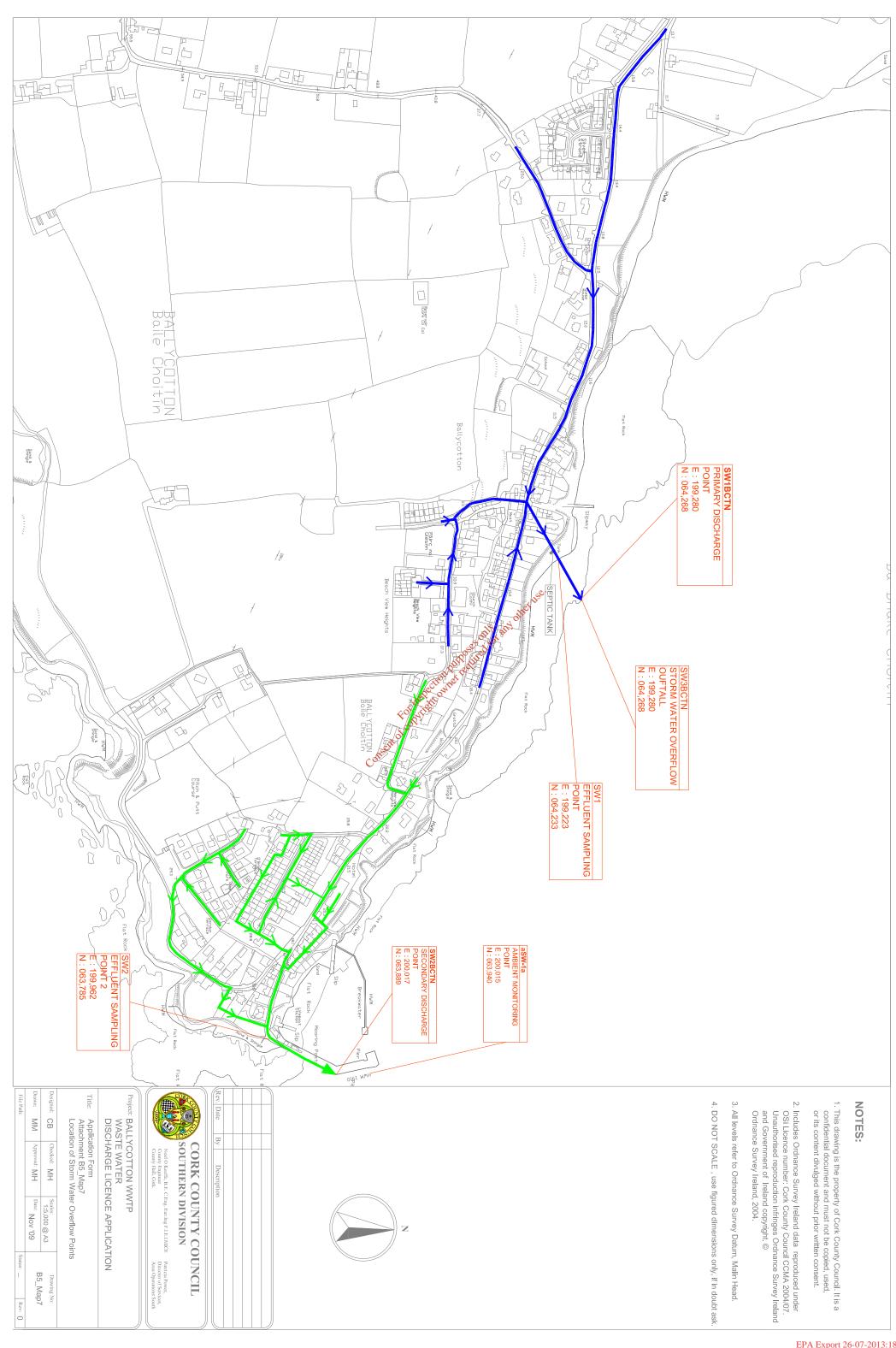


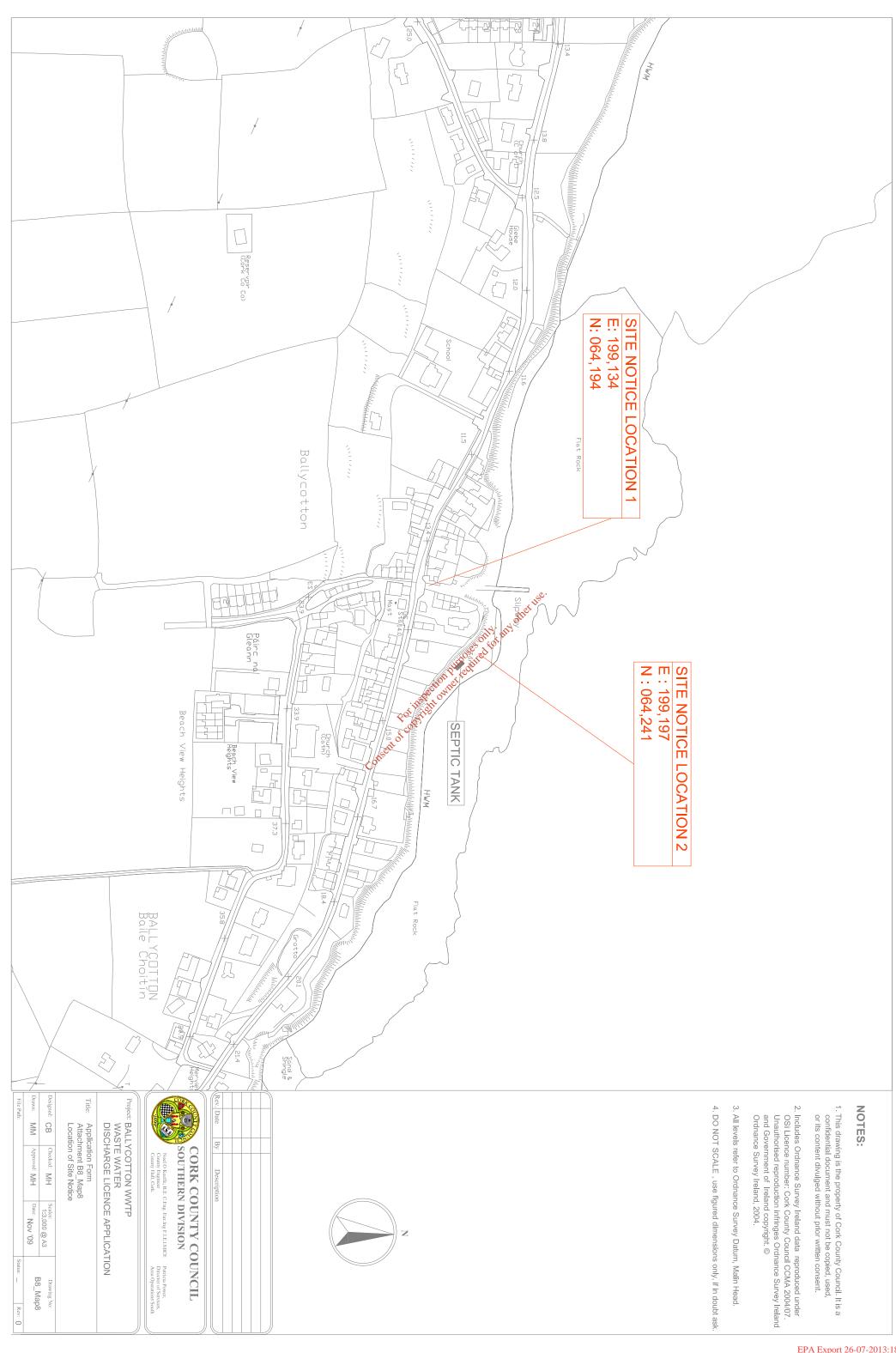












Client: Project Title: Cork County Council.

Upgrading of Wastewater Treatment Facilities at Midleton, Castlemartyr, Cloyne, Saleen & Ballycotton

Document Title:

Design Report

Document Issue:

Date: November 2008 Project No.: C006196

Page No.:

#### BALLYCOTTON 9

#### 9.1 **Existing Situation / Proposal**

A Preliminary Report was prepared by WYG in 2006 for a sewerage scheme covering the Shanagarry, Garryvoe, Ballycotton coastal area. The Report recommended:

- A new collection system comprising gravity sewers, pumping stations and rising mains for Shanagarry
- An extension of the existing collection system, and new pumping stations and associated rising mains for Garryvoe.
- Extensions of the existing collection system, replacement of existing sewers and new pumping stations and associated rising mains to be provided in Ballycotton
- Provision of stormwater trunk sewers in Ballycotton
- A new treatment plant to be constructed at Ballycotton to treat the combined flows from Shanagarry, Garryvoe and Ballycotton, with a marine outfall to Ballycotton Bay.

To cater for the high seasonal variation in load, the treatment plant was recommended to be at least two-stream, with a design capacity of 3,200 PE and a 25/35 treated effluent standard. Dilution/dispersion at the outfall was calculated to be such as to not require disinfection but retrofitting would be allowed for in the design of the plant.

The implementation of the proposals for the treatment plant and the sea outfall at Ballycotton are now incorporated into this Project.

The proposal to lay a treated effluent rising main from Castlemartyr to Balltycotton, passing through Shanagarry, has changed the economics which led to the proposed centralised treatment and disposal at Ballycotton. An economic analysis indicates (see Section 6.4) that local treatment at Ballycotton and Shanagary/Garryvoe and pumping of the treated effluent from the latter to Ballycotton is now a more economic solution. This option needs to be considered in more detail to ensure that it is the best option on environmental and technical grounds.

It is therefore proposed that the reatment plant at Ballycotton has a capacity of 1,200 PE, for expansion in the future. The future capacity of the plant will be dependent on the final adopted solution for Shanagarry and Garryvoe. An indicative layout for the plant is shown on Figure 10 in Appendix 7. The layout incorporates a UV channel which will cater for the discharge from Castlemartyr /Ladysbridge, Cloyne/Saleen as well as Shanagarry, Garryvoe and Ballycotton.

The proposal includes the installation of:

- Grit removal and screening
- A Storm Holding Tank
- An Inlet flow measurement chamber
- Extended aeration tanks 2 x 600PE
- A Clarifier (6m dia.)
- Sludge picket-fence thickener
- Final effluent flow measurement chamber
- A UV Channel (76 l/s)
- Control House
- Odour control units 2 at different locations

The proposed new marine outfall for Ballycotton extends 330m into Ballycotton Bay. It was designed to cater for the combined effluent from Ballycotton, Shanagarry and Garryvoe with a peak/summer DWF of 6.6l/s (3,200 PE). Peak flow was taken as 3 DWF or 20l/s. Treated effluent from Cloyne and Castlemartyr will be combined with that from Ballycotton at the outlet from the treatment plant, for discharge through the outfall. The 350mm diameter pipeline is hydraulically adequate.

Client: Project Title: Cork County Council.

Upgrading of Wastewater Treatment Facilities at Midleton, Castlemartyr, Cloyne, Saleen & Ballycotton

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Date:

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The total flow now to be discharged through the proposed outfall at Ballycotton is 76 l/s (3 x DWF). The 350mm n.b. diameter pipeline is hydraulically adequate to take this flow.

An assessment of the dilution and dispersion study for the outfall was carried out. This indicates that the proposed outfall discharge point, c.300m offshore, is capable of handling the increased discharge and will maintain bathing water quality in the Bay and blue flag standard at Garryvoe. It is however recommended that the outfall be remodelled and a U.V. channel provided at the Treatment Plant to facilitate retrofitting of disinfection if required. Costs for both are included in the Estimate.

A UV channel at Ballycotton to treat the combined effluent for all seven centres is therefore recommended.

The recommended treated effluent standards for the Ballycotton plant are in accordance with the Urban Waste Water Treatment Regulations 2001. These are set out in the following

Table 9.1 **Ballycotton Effluent Monitoring** 

	Unit	Concentration	Minimum percentage of reduction
BOD <sub>5</sub>	mg/l O <sub>2</sub>	25	70 – 90
COD	mg/l O <sub>2</sub>	125	<i>چ</i> ∙ 75
SS	mg/l	35	90

#### 9.2 Collection System

The location of the proposed treatment plant is on elevated ground to the west of the village. The effectiveness of the plant is thus totally contingent on the upgrading and remodelling of the existing collection system, including the construction of three pumping stations. This upgrading and remodelling, as proposed in the WYG Preliminary Report is shown in Figure 11, Appendix 7 and the cost thereof has been included in the Estimate.

In the Preliminary Report, it was proposed that three surface water sewers be laid in conjunction with the upgrading/remodelling of the existing collection system. They were specifically to service lands zoned for development in the Local Area Development Plan. Due to current economic circumstances, these have not been included in the Project and will only proceed when the need arises.

#### 9.3 **Statutory Processes**

The following outlines the current status for the site regarding requirements / legislation:

- Land acquisition and wayleaves in progress for the treatment plant site and 3 No. pump station sites.
- Part 8 planning is required for the 4 sites.
- Foreshore Licence A foreshore licence application has been lodged for the outfall.
- A Waste Discharge Licence will be required for the outfall and the storm overflows from the pumping stations.

# **CORK COUNTY COUNCIL**

Part VIII Planning Application for:

The construction of a Waste Water Treatment Plant and associated marine outfall at Ballycotton, Co Cork.

# **Description of the Works**

Cork County Council proposes to upgrade the Ballycotton Sewerage Scheme, including the construction of a waste water treatment plant and an associated sea outfall, to serve existing and future residential and commercial development in Ballycotton.

## (a) Waste Water Treatment Plant

The treatment plant is to be located to the west of the village, in the townland of Ballybraher. The plant is designed to initially provide treatment for a population equivalent (PE) of 1,200, with an allowance for future expansion up to 3,200 PE to accommodate the treatment of wastewater from Shanagarry and Garryvoe.

It is proposed to procure the treatment plant under a design, build, operate contract. The layout shown on the drawings is therefore indicative only and the final layout will be determined by the design-build-operate contractor's design. The plant design will include for coarse screening, grit removal, secondary treatment (extended aeration) and clarification. Treatment facilities for sludge produced on site will also be provided. The design-build-operate contractor's proposal will be to larger in plan or height than the details shown on the drawings. The maximum height of the control building will be 4.5m above finished ground level and all other structures 3.0m. above finished ground level.

The effluent will be treated to meet the standards set out in the Urban Waste Water Treatment Regulations as follows:

 $BOD_5$  25 mg/l COD 125 mg/l Suspended Solids 35 mg/l

The following boundary conditions will apply to the operation of the WWTP:

- Noise limit :- 55dBA (day time); 45dBA (night time)
- Odour limit :- 3ou<sub>E</sub> / m<sup>3</sup> on a 98 percentile basis.

# (b) Marine Outfall

To dispose of the treated effluent from Treatment Plant, it is also proposed to construct a new marine outfall. The Outfall will be a 350 mm dia. pipeline, approximately 1.7 km. in length, running from the treatment plant site, through the village, to discharge into Ballycotton Bay, 300m. offshore from Cow's Slip.

A Foreshore Licence Application has been lodged for the marine section of the outfall.

## **Drawings**

The full list of drawings relating to this planning proposal is as follows:

Overall Scheme Layout	C006916-C-5101
WWTP Site Location Map Indicative Site Layout Site Sectional Elevations Control Building & WWTP Site Details	C006916-C-5102 C006916-C-5103 C006916-C-5104 C006916-C-5105
Plan & Section of Proposed Outfall	C006916-C-5512
Site Sectional Elevations Control Building & WWTP Site Details  Plan & Section of Proposed Outfall  Consent of Control Building & WWTP Site Details  Control Building & WWTP Site Details  Plan & Section of Proposed Outfall  Control Building & WWTP Site Details  Control Building & WWTP Site Details  Control Building & WWTP Site Details	

# **Cork County**

# Water Services Investment Programme 2007 - 2009

Schemes at Construction	W/S	Est. Cost	Schemes to start 2009 contd.	W/S	Est. Cost
Cork North			Cork South		
Mitchelstown Sewerage Scheme			Ballincollig Sewerage Scheme (Upgrade) (G)	S	22,248,000
(Nutrient Removal)	S	221,000	Cork Lower Harbour Sewerage Scheme (excl. Crosshaven		73,542,000
			Shannagarry/ Garryvoe/ Ballycotton Sewerage Scheme	S	3,780,000
Cork South	0	0.040.000	Youghal Sewerage Scheme	S	14,420,000
Ballyvourney/ Ballymakeery Sewerage Scheme Cobh/ Midleton/ Carrigtwohill Water Supply Scheme	S W	3,049,000 10,135,000	roughta coworage continue	Ü	14,420,000
Cork Lower Harbour Sewerage Scheme	VV	10,135,000	Cork West		
(Crosshaven SS) (G)	S	4,850,000	Ballydehob Sewerage Scheme	S	683,000
Cork Water Strategy Study (G)	W	941,000	Bantry Water Supply Scheme	W	14,935,000
Kinsale Sewerage Scheme	S	20,000,000	Clonakilty Sewerage Scheme (Plant Capacity Increase)	S	3,677,000
Midleton Sewerage Scheme (Infiltration Reduction) (C	G) S	2,078,000	Courtmacsherry/ Timoleague Sewerage Scheme	S	2,472,000
		41,274,000		W	
Schemes to start 2007			Dunmanway Regional Water Supply Scheme Stage 1	VV	12,669,000 <b>164,629,000</b>
Cork North			Serviced Land Initiative		104,023,000
North Cork Grouped DBO Wastewater Treatment			Serviced Land Initiative		
Plant (Buttevant, Doneraile & Kilbrin)	S	5,150,000	Cork North		
( , ,		-,,	Ballyclough Water Supply Scheme	W	139,000
Cork West				W/S	
Skibbereen Sewerage Scheme	S	20,000,000	Ballyhooley Improvement Scheme Broghill-Rethgoggin Sewerage Scheme	S	139,000
		25,150,000	Biveong Water Supply Scheme	W	406,000
Schemes to start 2008		_			115,000
Onds North		ion	Charletown Sewerage Scheme (incl. Water)	W/S	543,000
Cork North  Mallow/ Ballyviniter Regional Water Supply Scheme (	<b>⊔\\∧</b> /	9 650 000 000 000	Clondulane Sewage Treatment Plant	S	417,000
M. II. O. O. I. (II)	_	8,652,000 8,400,000	Freemount Sewerage Scheme	S	150,000
Mailon Concrego Conomio (11)	Ŭ	FOR HELP	The Hoad Sewerage Scheme (Inc. Water)	W/S	2,080,000
Cork South		948,000 1,296,000	Rathcormac Sewerage Scheme (incl. Water)	W/S	555,000
Ballincollig Sewerage Scheme (Nutrient Removal) (G	) S <sub>rs</sub> es	948,000	Spa Glen Sewerage Scheme	S	736,000
Ballingeary Sewerage Scheme	Car	1,296,000	Uplands Fermoy Sewerage Scheme (incl. Water)	W/S	1,174,000
bandon Sewerage Scheme Stage 2	3	14,729,000	Watergrasshill Water Supply Scheme (incl. Sewerage) (G)	W/S	4,151,000
City Environs (CASP) Strategic Study (G)	S	153,000			
Cloghroe Sewerage Scheme (Upgrade) Coachford Water Supply Scheme	S W	683,000	Cork South		
Garrettstown Sewerage Scheme	S	1,318,000 2,153,000	Ballincollig Sewerage Scheme (Barry's Rd Foul and		
Inniscarra Water Treatment Plant Extension Phase 1	W	2,678,000	Storm Drainage) (G)	S	1,164,000
Little Island Sewerage Scheme (G)	S	2,200,000	Belgooley, Water Supply Scheme (incl. Sewerage)	W/S	2,913,000
			Blarney Water Supply Scheme (Ext. to Station Rd) (G)	W	416,000
			Carrigtwohill Sewerage Scheme (Treatment and		
Cork West			Storm Drain) (G)	S	7,632,000
Bantry Sewerage Scheme	S	7,148,000	Castlematyr Wastewater Treatment Plant Extension	S	1,200,000
Dunmanway Sewerage Scheme	S	2,153,000	Crookstown Sewerage Scheme (incl. Water)	W/S	1,200,000
Leap/ Baltimore Water Supply Scheme Schull Water Supply Scheme	W	6,365,000 5,253,000	Dripsey Water Supply Scheme (incl. Sewerage)	W/S	1,112,000
Schull Water Supply Scheme	VV	61,137,000	Glounthane Sewerage Scheme (G)	S	1,576,000
Schemes to start 2009		01,101,000	Innishannon Sewerage Scheme	S	277,000
			Innishannon Wastewater Treatment Plant	S	694,000
Cork North			Kerrypike Sewerage Scheme	S	832,000
Banteer/Dromahane Regional Water Supply Scheme	W	1,576,000	Kerrypike Water Supply Scheme	W	416,000
Conna Regional Water Supply Scheme Extension	W	2,627,000	Killeagh Wastewater Treatment Plant Extension	S	1,200,000
Cork NE Water Supply Scheme	W	4,326,000	Killeagh Water Supply Scheme (includes Sewerage)	W/S	485,000
Cork NW Regional Water Supply Scheme	W	6,046,000	Killeens Sewerage Scheme	S	420,000
Millstreet Wastewater Treatment Plant (Upgrade)	S	1,628,000	Kilnagleary Sewerage Scheme	S	694,000
			Midleton Wastewater Treatment Plant Extension	S	4,050,000

# **Cork County contd.**

# Water Services Investment Programme 2007 - 2009

Serviced Land Initiative contd.	W/S	Est. Cost	Schemes to Advance through Planning cond.	W/S	Est. Cost
Cork South contd.			Cork South		
Mogeely, Castlemartyr & Ladysbridge Water Supply Scheme	e W	2,566,000	Carrigtwohill Sewerage Scheme (G)	S	20,000,000
North Cobh Sewerage Scheme (G)	S	3,193,000	Cork Sludge Management (G)	S	14,420,000
Riverstick Water Supply Scheme (incl. Sewerage)	W/S	525,000	Cork Water Supply Scheme (Storage - Mount Emla,		
Rochestown Water Supply Scheme	W	2,700,000	Ballincollig & Chetwind) (G)	W	8,500,000
Saleen Sewerage Scheme	S	1,051,000	Inniscarra Water Treatment Plant (Sludge Treatment)(	G)W	5,356,000
Youghal Water Supply Scheme	W	2,300,000	Macroom Sewerage Scheme	S	5,150,000
			Minane Bridge Water Supply Scheme	W	1,421,000
Cork West					
Castletownshend Sewerage Scheme	S	1,576,000	Cork West		
		50,797,000	Bantry Regional Water Supply Scheme (Distribution)	W	9,455,000
Rural Towns & Villages Initiative			Cape Clear Water Supply Scheme	W	1,679,000
			Castletownbere Regional Water Supply Scheme	W	8,405,000
Cork North			Glengarriff Sewerage Scheme	S	2,500,000
Buttevant Sewerage Scheme (Collection System)	S	2,446,000	Roscarberry/Owenahincha Sewerage Scheme	S	1,576,000
Doneraile Sewerage Scheme (Collection System)	S	1,738,000	Skibbereen Regional Water Supply Scheme Stage 4	W	7,880,000
			Water Conservation Allocation  Water Conservation Allocation  Water Conservation Allocation  South Western River Basin District (WED) Project 1		95,646,000
Cork South			अप्र. अध्ये		
Innishannon (Ballinadee/ Ballinspittle/ Garrettstown)			Water Conservation Allocation		12,206,000
Water Supply Scheme	W	6,726,000	Water Conservation Allocation  Little Conservation Allocation  Asset Management Study  South Western River Basin District (WFD) Project 1		
		, oth	Asset Management Study		300,000
Cork West		geotie wir			
Ballylicky Sewerage Scheme	S	THOUSE THE	South Western River Basin District (WFD) Project <sup>1</sup>		9,400,000
Baltimore Sewerage Scheme	S	0,102,000			
Castletownbere Sewerage Scheme	S	5,202,000		40.	
Schull Sewerage Scheme	s S Conser	3,523,000	Programme Total	48	5,489,000
	Cour	24,950,000			
Schemes to Advance through Planning					
Cork North					
Mitchelstown North Galtees Water Supply Scheme	W	3,152,000			
Mitchelstown Sewerage Scheme	S	3,000,000			
Newmarket Sewerage Scheme	S	3,152,000			

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

<sup>(</sup>H) Refers to a Hub as designated in the National Spatial Strategy

<sup>(</sup>G) Refers to a Gateway as designated in the National Spatial Strategy

# Newspaper Advertisement

# Cork County Council Southern Division

# APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Waste Water Discharge (Authorisation) Regulations 2007, Water Services Southern Division of Cork County Council, Carrigrohane Road, Cork is applying to the Environmental Protection Agency for a Waste Water Discharge Licence for the Agglomeration of **Ballycotton** at the following locations:

ocation	National Grid Ref.
lycotton	E 199209 N 064224
	lycotton

Discharge	Function	Townland	Receptor	<b>Grid Reference</b>
Drimony	Main	Dollygotton	Ballycotton Bay	E 199280
Primary	Iviaiii	Banyconon	Danyconon Day	N 064268
Cacandami	Casandami	Dolly aget on	Dollygotton Day	E 200017
Secondary	Secondary	Ballycotton	Ballycotton Bay	N 063889

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

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

Irish Examiner Friday 11.12.2009

Public Notices

**Public Notices** 

Public Notices

Public Notices



# **CORK COUNTY COUNCIL**

COMHAIRLE CONTAE CHORCAÍ

# **PUBLIC NOTICE**

NOTICE UNDER ARTICLE 16 (3)
WASTE MANAGEMENT (PACKAGING)
REGULATIONS 2007.

The companies listed below are registered with Cork County Council under the Waste Management (Packaging) Regulations 2007, and are obliged, to accept from any person free of charge packaging of a type or brand that they supply as indicated.

	p. 2000000000000000000000000000000000000	******************************	7487487×2000	**************	incomo e con		•
COMPANY/ PREMISES	CARD BOARD	PAPER	CLASS	PLASTIC	STEEL	ALUMINIUM	WOOD
Supermac's lrl. Ltd., Main St., Charleville, Co. Cork	•	*		•	•		
Supermac's Irl. Ltd., Pearse Square, Fermoy, Co. Cork	*			*	-		,
Supermac's Irl. Ltd., Lower Cork St., Mitchelstown, Co. Cork	* -	*		*	•	, insp	tions Lows
Supermac's Irl. Ltd, Statoil Service Station, Limerick Road, Mallow, Co. Cork	*	*		*	isent	of Cobyrg	
Supermac's Irl. Ltd., Spar, East Gate Bus Pk, Little Island, Co. Cork	*	*		*			
Spring Grove Services, Unit 2, Glammire Industrial Estate, Sallybrook, Glanmire, Co. Cork		*		•			
Irish Yogurts Ltd., Clonakilty, Co. Cork	•	,* :				* * * * * * * * * * * * * * * * * * *	1 S
Lormac Industrial Distributors Ltd., 8 – 10 City Link Park, Forge Hill, Cork		*		•			*

For further information please contact Environment. Directorate, Cork County Council, Inniscarra, Co. Cork. Telephone: (021) 4532700.

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Wastewater Discharge (Authorisation) Regulations 2007, Water Services Southern

## PUBLIC NOTICE (CONT'D)

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, Carrigrohane Road, Cork is applying to the Environmental Protection Agency for a Wastewater Discharge Licence for the agglomeration of Ballycotton at the following locations:

Plant Name Location National Grid Ref.

Ballycotto Tank	n Septic	Ballycotton	E 199209 N 064224	
Discharge	Function	Receptor	Townland	Grid Ref
Primary	Main	Ballycotton	Ballycotton Bay	E 199280 N 064268
Primary	Secondar	Ballycotton	Ballycotton Bay	E 200017 N 063889

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 inspection or purchase at the:

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

 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

CORK COUNTY LOCAL AUTHORITIES SEEK APPLICATIONS FOR INCLUSION ON THEIR APPROVED GRAVE DIGGERS LIST

Cork County Local Authorities, comprising Cork County
Council and Town Councils within the County of Cork, intend
to draw up a list of suitably qualified Grave Diggers who will
be available for selection to work in Cork County Local
Authority Graveyards.

It is the intention of Cork County Local Authorities to restrict grave digging to those who can demonstrate the ability to comply with Cork County Local Authority requirements. Only these Grave Diggers will be included in the approved

Briefing Sessions will be held in Cork County Council offices in Kent Street, Clonakilty, Co. Cork on 17th December at 3.00pm, in Cork County Offices, Annabella, Mallow, Co. Cork on 18th December at 3.00pm and on Floor 16, County Hall, Cork on 18th December at 3.00pm.

Interested parties can obtain an application form for inclusion on this list, and/or book a place at one of the briefing meetings as follows:

Division	Tel no:
South Cork	021 4285126
North Cork	022 30437/30454
West Cork	023 8858812

All interested parties are welcome to attend briefing.

The approved list will be subject to updates.

Closing date for receipt of completed application form is 4.00pm on Friday, 29th January 2010. Completed application forms are to be submitted in sealed envelopes marked "Grave Diggers Approved List" and addressed to Ms. Linda Skillington, Staff Officer, Health and Safety Department,

# **Public Notices**

APPLICATION TO LIMERICK
COUNTY COUNCIL FOR A
WASTE COLLECTION PERMIT
RELATING TO WASTE
COLLECTION ACTIVITIES IN
THE MIDWEST REGION

Alan Moloney trading as Clar Drains, Quin Road, Ennis wi be making an application t Limerick County Council within 10 working days from the dat of this notice, for the followin waste collection activities Commercial and industrial wast as well as Sludges/Slurries an Edible Faus and Oils in Limericl City, County Limerick, Count Clare and County Kerry.

A copy of the application will, a soon as is practicable after receip by Limerick County Council be available for inspection o purchase at the principal office of the Midwest Region.

# **Planning Notices**

DUBLIN CITY COUNCIL: Gannon Homes Limited seel Planning Permission for an 83-bedroom nursing home (5214m2 gross interna floor area) on a 1.16 acre site bounded by Parl Avenue, Park Terrace South and Park Row, Clongriffin Dublin 13. The proposec development is a revision to approved planning permission Reg. Ref. 0132/02 spin Reg. Ref. 0132/02 (PL29N.131058) for a large mixed-use development at Clongriffin, Dublin 13, and proposes to omit 47 dwellings (7 no. 3-bed houses, 2 no. 4-bed houses, 2 no. 1-bed duplex units, 12 no. 2-bed duplex units, 10 no. 3-bed triplex units, 10 no. 1-bed apartments and 4 no. 2-bed apartments) to be replaced by the proposed nursing home. The nursing home comprises a single building ranging in height from 2 to 3 storeys and is arranged around a central, private courtyard garden. The main entrance is on Park Terrace South and there are staff and service entrances on Park Row. There are doors and windows to all street and courtyard elevations, and there are balconies on the west elevation overlooking Park Avenue and on the internal east elevation overlooking the courtyard. The development includes on-street parking spaces, an ESB sub-station, a service area and bin storage accessed from Park Row, and ancillary works. The planning application may inspected or purchased, at a fee not exceeding the rea-

# CORK COUNTY COUNCIL SOUTHERN DIVISION



# 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 Southern Division of Cork County Council, Carrigrohane Road, Cork is applying to the Environmental Protection Agency for a Waste Water Discharge Licence for the Agglomeration of **Ballycotton** at the following locations:

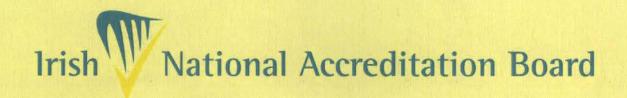
Plant Name	<b>Location</b>	National Grid Ref.
Ballycotton Septic Tank	Ballycottopary	E 199209
Danycotton Septic Tank	Dany Court	N 064224

Discharge	Function	Townland	Receptor	<b>Grid Reference</b>
Drimony	Main	Ballycotton	Dollygotton Day	E 199280
Primary	Iviaiii	Banycouon	Ballycotton Bay	N 064268
Cacandami	Cacandami	Ballycotton	Dollygotton Day	E 200017
Secondary	Secondary	Danycouon	Ballycotton Bay	N 063889

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, Water Services South, County Hall, Carrigrohane Road, Co. Cork, Telephone: 021 4276891Fax: 021 4276321.

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



# **Accreditation Certificate**

# **Cork County Council**

Wastewater Testing Laboratory, Inniscarra, Co. Cork

**Testing Laboratory** 

Registration number: 016T

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

Date of last renewal of accreditation: 01:10:2002

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

Expiry date of this certificate of accreditation: 01:10:2012

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

Manager: Jom Wempsy

Mr Tom Dempsey

Chairperson

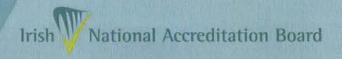
Dr Máire Walsh

Issued on 23 June 2008

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

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

Wilton Park House, Wilton Place, Dublin 2, Ireland. Tel +353 1 607 3003 Fax +353 1 607 3109 E-mail inab@inab.ie Web www.inab.ie



Wilton Park House, Wilton Place, Dublin 2, Ireland Tel +353 1 607 3003 Fax +353 1 607 3109 E-mail inab@inab.ie Web www.inab.ie

# Schedule of Accreditation



(Annex to Accreditation Certificate)

Permanent Laboratory:

Category A

# **CORK COUNTY COUNCIL**

**Chemistry Testing Laboratory** 

Initial Registration Date : 25-April-1991

Postal Address: Waste Water Laboratory

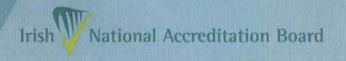
(Address of other locations Inniscarra in as they apply) Co. Cork

Telephone: +353 (21) 4532700 Fax: +353 (21) 4532777

E-mail:

Contact Name: Ms M Cherry

Facilities: Normally not available for Public testing



+353 1 607 3003 Fax +353 1 607 31 all inab@inab.ie Web www.inab.ie

# Schedule of Accreditation



Permanent Laboratory: Category A

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

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

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

### Testing and Calibration Categories:

Permanent laboratory calibration and testing where the laboratory is erected on a fixed Category A:

location for a period expected to be greater than three years.

Category B: Site calibration and testing that is performed by staff sent out on site by a permanent

laboratory that is accredited by the Irish National Accreditation Board.

Site calibration and testing that is performed in a site/mobile laboratory or by staff sent Category C:

out by such a laboratory, the operation of which is the responsibility of a permanent

laboratory accredited by the Irish National Accreditation Board.

Site calibration and testing that is performed on site by individuals and organisations that Category D:

do not have a permanent calibration/testing laboratory. Testing may be performed using

portable test equipment (a)

(b) a site laboratory

(c) a mobile laboratory or

equipment from a mobile or site laboratory (d)

## Standard Specification or Test Procedure Used:

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

### Glossary of Terms

Facilities:

Public calibration/testing service:

Commercial operations which actively seek work from others.

Conditionally available for public

Established for another primary purpose but, more commonly than not,

calibration/testing:

is available for outside work.

Normally not available for public

Unavailable for public calibration/testing more often than not.

calibration/testing:

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



# **Cork County Council**

# **Chemical Testing Laboratory**

Permanent Laboratory:
Category A

INAB Classification number (P9) Materials/products tested		Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used	
766	Waters	Chemical analysis:	Documented in-house methods based on Standard Methods for the Examination of Water	
.01	Waters for domestic purposes	Biochemical Oxygen Demand	& Wastewater 21 st Edition APHA (See Note 1)	
	Surface and ground waters	2 - 145,000 mg/l		
		Chemical analysis:  Biochemical Oxygen Demand 2 - 145,000 mg/l  pH 2 - 12  For inspection purposes only and any only any on	CP No. 5 Electrometry	
		Suspended Solids  0.5 - 173500 mg/l	CP No. 3 Gravimetric	
		Chemical Oxygen Demand 21 - 135 mg/l 120 - 670,000 mg/l	CP No. 6 Reflux - colourmetric method	
		Total phosphorus  0.2 - 5,300 mg/l	US-EPA Approved method/HACH Method CP No.20	
		Ammonia 0.1 - 1,000 mg/l NH <sub>3</sub> - N	Documented in-house method CP22 by Konelab based on Method for the Examination of Waters and Associated Material HMSO:1981	



# **Cork County Council**

# **Chemical Testing Laboratory**

Permanent Laboratory: Category A

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



# **Cork County Council**

Permanent Laboratory:
Category A

# **Chemical Testing Laboratory**

(P9)	lassification number als/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
766	Waters	Chemical analysis	Documented in-house methods based on Standard
			Methods for the Examination of Water&
.05	Trade Wastes		Wastewater 21 st Edition APHA (See Note 1)
	Industrial effluents	Biochemical Oxygen Demand	No. 1 Membrane electrode
	Urban Wastewater Municipal Wastewater	2 - 145,000 mg/l of color	en,
		pH Duricquit	CP No. 5 Electrometry
		Biochemical Oxygen Demand  2 - 145,000 mg/l  pH  2 - 12  Fool of Solids  Suspended Solids  0.50-17,500 mg/l	
		Suspended Solids	CP No. 3 Gravimetric
		0.50°17,500 mg/l	
		Chemical Oxygen Demand	CP No. 6 Reflux - colourmetric method
		21 - 135 mg/l	
		120 - 670,000 mg/l	
		Total phosphorus	US-EPA Approved method/HACH
		0.2 - 5,300 mg/l	Method CP No.20
		Ammonia	Documented in-house method CP22 by Konelab
		0.1 - 1,000 mg/l NH3-N	based on Method for the Examination of Waters
Notes			and Associated Material HMSO: 1981.

Edition 21, 30/09/2008

016T



# **Cork County Council**

Permanent Laboratory:
Category A

# **Chemical Testing Laboratory**

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

Edition 21, 30/09/2008

016T

Sample Date	16/09/2009		16/09/2009		16/09/2009	16/09/2009
	Ambient				Secondary	<b>Septic Tank Primary</b>
Sample	(aSW-1a)		Influent		Discharge (SW2)	Discharge (SW1)
Sample Code	GT1149		GT1147		GT1146	GT1148
Flow M <sup>3</sup> /Day	No result		No result		No result	No result
pH	8.1		8.9		7.6	8
Temperature °C	No result		No result		No result	No result
Conductivity uS/cm 20°C	44.4		762		798	873
Suspended Solids mg/L	10		878		29	105
Ammonia-N mg/L	0.6		0.5		15.5	12.6
BOD mg/L	<1		46		36	79
COD mg/L	51		1397		74	177
TN-N mg/L	0.484		15.98		19.36	20.91
Nitrite-N mg/L	<0.1		<0.1		No result	No result
Nitrate-N mg/L	<0.5		2.925		2.535	5.235
TP-P mg/L	0.048		0.976		1.67	1.98
O-PO4-P mg/L	< 0.05		1.25		1.77	1.55
SO4 mg/L	No result		68.9		30.9	38.9
Phenols µg/L	<0.10		No result		<0.10	<0.10
Atrazine μg/L	<0.01		No result		<0.01	<0.01
Dichloromethane µg/L	<1		No result		.0. <1	<1
Simazine µg/L	<0.01		No result		<0.01	<0.01
Toluene µg/L	<0.28		No result		2.586	<0.28
Tributyltin µg/L	No required	1	No required	King.	No required	No required
Xylenes μg/L	< 0.73		No result		< 0.73	<0.73
Arsenic µg/L	1.4		No result of		< 0.96	<0.96
Chromium ug/L	126.6		30 011		<20	<20
Copper ug/L	<20		:101155		<20	<20
Cyanide μg/L	<5		No result		<5	<5
Fluoride µg/L	0.754	1	0.592		0.259	0.309
Lead ug/L	<20	₹°	53.5		<20	<20
Nickel ug/L	<20	50	31.8		<20	<20
Zinc ug/L	<20 en	J'_	206.3		<20	<20
Boron ug/L	3143		33.8		31.1	52.8
Cadmium ug/L	<20		<20		<20	<20
Mercury µg/L	0.044		No result		<0.03	<0.03
Selenium µg/L	<0.74		No result		1.9	2.2
Barium ug/L	<20		79.6		<20	<20

Note samples analysed for Dangerous substances in discharge and downstream of discharge