

Cork County Council

Wastewater Discharge Licence Application under S.I. 684 of 2007  
Regulations

Scheme / Agglomeration Name : Mallow

Submission Date : 14<sup>th</sup> December 2007

This is a draft document (VERSION 3) and is subject to revision.



# Waste Water Discharge Licence Application Form For MALLOW WWTP

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EPA Ref. No: (Office use only)	00052-01
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**Tracking Amendments to Draft Application Form**

Version No.	Date	Amendment since previous version	Reason
V. 1.	11/10/07	N/A	
V. 2.	18/10/07	Inclusion of a Note 1 superscript for Orthophosphate in Tables D.1(i)(b) & D.1(ii)(b)	To highlight the requirement for filtered samples in measurement of O-Phosphate for waste water discharges.
V.3.	13/11/07	<p>Amend wording of Section F.2 to include 'abstraction'.</p> <p>Amend wording of Checklist in Annex to reflect wording of Regulation 16(5) of S.I. No. 684 of 2007.</p> <p>Inclusion of unique point code for each point of discharge and storm water overflow.</p>	<p>To accurately reflect the information required</p> <p>To accurately reflect the Regulations and to obtain the application documentation in appropriate format.</p> <p>To aid in cross-referencing of application documentation.</p>

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

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## 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](http://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 gives no guarantee, or warranty concerning the accuracy, completeness or up-to-date nature of the information provided herein and does not accept any liability whatsoever arising from any errors or omissions.

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

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*Urban Waste Water Discharge Application Form*

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## PROCEDURES

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

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

An application for a licence must be submitted on the appropriate form (available from the Agency) with the correct fee, and should contain relevant supporting documentation as attachments. The application should be based on responses to the form and include supporting written text and the appropriate use of tables and drawings. Where point source emissions occur, a system of unique reference numbers should be used to denote each discharge point. These should be simple, logical, and traceable throughout the application.

The application form is divided into a number of sections of related information. The purpose of these divisions is to facilitate both the applicant and the Agency in the provision of the information and its assessment. 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: Drawings. The following guidelines are included to assist applicants:*

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

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

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# **SECTION A**

# **NON TECHNICAL SUMMARY**

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**SECTION A: NON-TECHNICAL SUMMARY**

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

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

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

A description of:

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

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

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## A Description of the Waste Water Works and the Activities Carried Out Therein

The wastewater in Mallow is collected in a partially combined foul and separated foul sewage drainage network. The wastewater drains from the town on both sides of the Blackwater River. The wastewater drains to a pumping station at Mallow Bridge, which is then pumped to the WWTW.

The Mallow WWTW is designed for a Population Equivalent (PE) of 18,000PE and BOD loading of 1,080 Kg/day. The maximum hydraulic capacity of the Mallow WWTW is 556m<sup>3</sup>/h which is 2.5 Dry Weather Flow (2.5DWF). In order to cope with flows above 2.5DWF storm storage has been provided at the WWTW. The volume of storm storage at the WWTW is approximately 1,012m<sup>3</sup>. In the event that the storm water holding tanks are filled and the storm continues, the storm water tanks are operated as a pre-clarification tank without sludge removal. The overflow from the storm water storage tank is connected to the final effluent outlet pipe.

The treatment plant treats all flows that arrive at the works to secondary standards in accordance with the Urban Waste Water Directive 1994 as shown in the following table:

Parameter	Effluent Limit
BOD	25 mg/l
COD	125 mg/l
Suspended Solids	35 mg/l
Phosphate	2 mg/l
Ammonia	3 mg/l
Total Nitrogen	25 mg/l
Sludge	18% or greater

Table 1 – Effluent Limits discharge

The existing WWTW were upgraded with an additional stream. The flow is split after the wastewater passes through the new inlet works. 50% of the flow is diverted to the existing wastewater treatment stream. The remaining 50% is directed to a new treatment system. The existing stream has an aeration phase, a secondary settlement phase and return activated sludge phase. The new stream has an anaerobic, anoxic and aeration phase, a secondary settlement phase and return activated sludge phase.

Sludge is wasted separately from each stream to a common storage sludge blend tank, common Picket Fence Thickener and common dewatering plant.

A summary of the treatment process is presented below:

<b>Inlet works</b>	2Duty/1Standby pumps, 2 No. mechanical screens with aerated grit and grease removal system, flow measurement and grit classifier.	
	<b>EXISTING STREAM</b>	<b>NEW STREAM</b>
<b>Biological Treatment</b>	2 No. Aeration Tanks with 2 No. surface aerators.	- 1 No. Anaerobic tank with 3 No. mixers. - 1 No. Anoxic tank - 1 No. aeration tank with fine bubble disc aeration
<b>Phosphorus Removal</b>	Ferric Sulphate dosing	
<b>Secondary Settling</b>	3 No. 13m diameter final settlement tanks with half bridge sludge scraper.  Sludge settled within the settlement tanks is withdrawn by gravity from each central sludge hopper to the return sludge pump sump.  Surplus Activated Sludge (SAS) is pumped by 2 No. pumps (Duty/Standby) from the pump sump to the sludge blend/holding tank. Return Activated Sludge (RAS) is pumped 2 No. pumps (Duty/Standby) from the pump sump and is mixed with the incoming influent.	1 No. 20m diameter final settlement tanks with half bridge sludge scraper.

<b>Sludge Treatment</b>	<ul style="list-style-type: none"> <li>- 1 No. sludge acceptance tank, 45m<sup>3</sup>; 1 No. mixer and sludge pump sump equipment with 2 No. Pumps.</li> <li>- 1 No. Sludge Blend/Holding tank, 251m<sup>3</sup>, 1 No. mixer and sludge pump sump equipment with 2 No. Pumps.</li> <li>- 1 No. Picket Fence Thickener for thickening from 0.5% to 2% Dry Solids, 183m<sup>3</sup>.</li> <li>- 2 No. Sludge Belt Presses with 2 No. sludge transfer pumps, 1 No. poly make-up unit with 3 No. dosing pumps.</li> </ul>
<b>Effluent Discharge</b>	1 No. 450mm gravity outfall pipe to Blackwater River.

Ancillary equipment at the WWTP also includes the following:

- Odour Treatment Unit with 2 No extractor fans.
- Standby Generator and SCADA system covering all the plant including sludge treatment process.
- Buildings - Inlet and sludge building, electricity transformer building, laboratory and control room building with fire alarm and security alarm systems.

The Mallow WWTP is currently operated by a Cork County Council. Tender documents for a 20 year Operation and Maintenance Contract are being prepared. The plant is manned during the working week 8.00am - 5.30pm (Monday - Friday) by a plant manager and 2 No. operators. During out of hours the SCADA system will send alarms to a mobile phone of the person on standby.

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

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

- The local Population
- The local Industries

The pollution load from these sources varies greatly with daily, weekly and seasonal producers of effluent. The sewage from all industries is collected via the public sewer and treated in conjunction with domestic waste at the waste water treatment plant.

The domestic population of Mallow has grown over the last three censuses owing to its development as a town within the Cork Metropolitan area. The most recent Census figures show that Mallow Town and environs now has a population in excess of 7,091 (Census, 2006). Other sources of influent that contribute to the sewage scheme would be:

- Commercial premises
- Schools
- Tourism

**The nature and quantities of foreseeable emissions from the waste water works into the receiving aqueous environment as well as identification of significant effects of the emissions on the environment.**

The final effluent is discharged into the Blackwater River. At design capacity the WWTW will discharge 5,250m<sup>3</sup>/d to the river.



### **Environmental Impacts**

An Environmental Impact Statement was carried out for the Expansion and Upgrading of Mallow Sewage Treatment Works in August 2000 by T.J. O'Connor & Associates. This report stated:

*"The increase in population and industry in the Mallow area will place additional demands on the wastewater treatment facilities in the area and if not provided for could be expected to result in a deterioration of the water quality in the Blackwater River downstream of the town. However, the proposed upgrading and expansion works at the Wastewater Treatment plant are designed to protect the water body downstream of the outfall sufficiently to restore its quality rating to around Q4. Without the proposed works, the town developments would cause a much greater BOD loading to the river, so that the effect of the treatment works expansion is positive."*

It is necessary to consider that the effluent quality will meet the requirements stated in the Urban Waste Water Directive 1994.

### **The Proposed Technology and Other Techniques for Preventing or, Where This Is Not Possible, Reducing Emissions from the Waste Water Works**

#### **Technologies**

In the WWTW at Mallow a sufficient number of standby pumps, fans, etc. is provided in order to ensure continuation of the wastewater and sludge treatment and to comply with all environmental standards in case of equipment failures or breakdowns. Standby equipment is installed, ready for take over, or available in stock on site.

Standby diesel generators or generator sockets in control panels are provided to enable the plant to operate during mains electric power failure thereby preventing untreated emissions from entering the receiving aqueous environment.

#### **Techniques**

A Performance Management System (PMS) is in place at the Mallow Wastewater Treatment Plant. This Performance Management System was developed by the Water Services National Training Group (WSNTG). The PMS provides a uniform approach to dealing with all relevant performance management issues, including Independent Compliance Audits, Management of Change, Dispute Resolution, Public Relations, Emergency Procedures and Reporting Procedures.

Cork County Council performs the Operation of the WWTP in accordance with the Performance Management System and maintains the design performance capability of the existing treatment plant.

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

#### **Prevention of pollution**

Any alteration upgrading of the existing infrastructure undertaken by Cork County Council shall not increase the potential to cause pollution in the environment. In particular any alterations to the wastewater treatment plant will be designed to enable any operator of the facility to prevent pollution of the environment by the following potential contaminants:

- Surface water run-off
- Spillages
- Solid Waste

#### **Toxic Substances**

Cork County Council shall ensure that any modification or alterations to the plant do not increase the impact by any toxic substances. All chemicals and dangerous substances must be stored safely at all times and all appropriate safety measures must be taken to ensure against leakage and spillage in accordance with the relevant Health and Safety Legislation.

### Measures planned to monitor emissions into the environment

Cork County Council, as current operator has developed using the PMS as a template, procedures and processes for sampling and analysis of the incoming raw sewage, outgoing effluent, sludge and other by-products such as screenings, so that analytical results are reliable, repeatable, consistent and accurate. Sampling procedures are in accordance with EU and Irish Regulations, and in particular in accordance with the Environmental Protection Agency's (EPA) monitoring and operating requirements. All laboratory analyses are performed in accordance with the latest edition of the Standard Methods for the Examination of Water and Wastewater, published by the American Public Health Association, and the Water Pollution Control Federation or other methods of comparable accuracy.

Regular independent laboratory analysis is also undertaken to externally monitor the operator's performance. Flow proportional or time based 24 hour samples are collected at the same well defined point at the inlet and outlet of the treatment works in order to monitor compliance with the requirements. A refrigerated sampler minimizes degradation between collection and analysis. Certain heavy metal analyses are also required on an annual basis as identified in 'Code of Good Practice for Use of Biosolids in agriculture'.

The operator is responsible for developing and implementing procedures to remedy defects in his laboratory procedures where the independent checking shows variations of more than  $\pm 10\%$ .

The sampling of the statutory samples is in accordance with the following procedures: -

- All samples are representative of the appropriate stream.
- Daily grab samples are taken at approximately the same times each day.
- Samples are fixed, stored and handled as per standard methods. Analysis of the samples (both operator's and Employer's) are undertaken within 24 hours and reported to the Employer's Representative within 48 hours. Exceptions are BOD, metals and pathogens, which are reported within 7 days.

The monitoring and recording of the status of all parameters appropriate to proper control and operation of the plant is carried out.

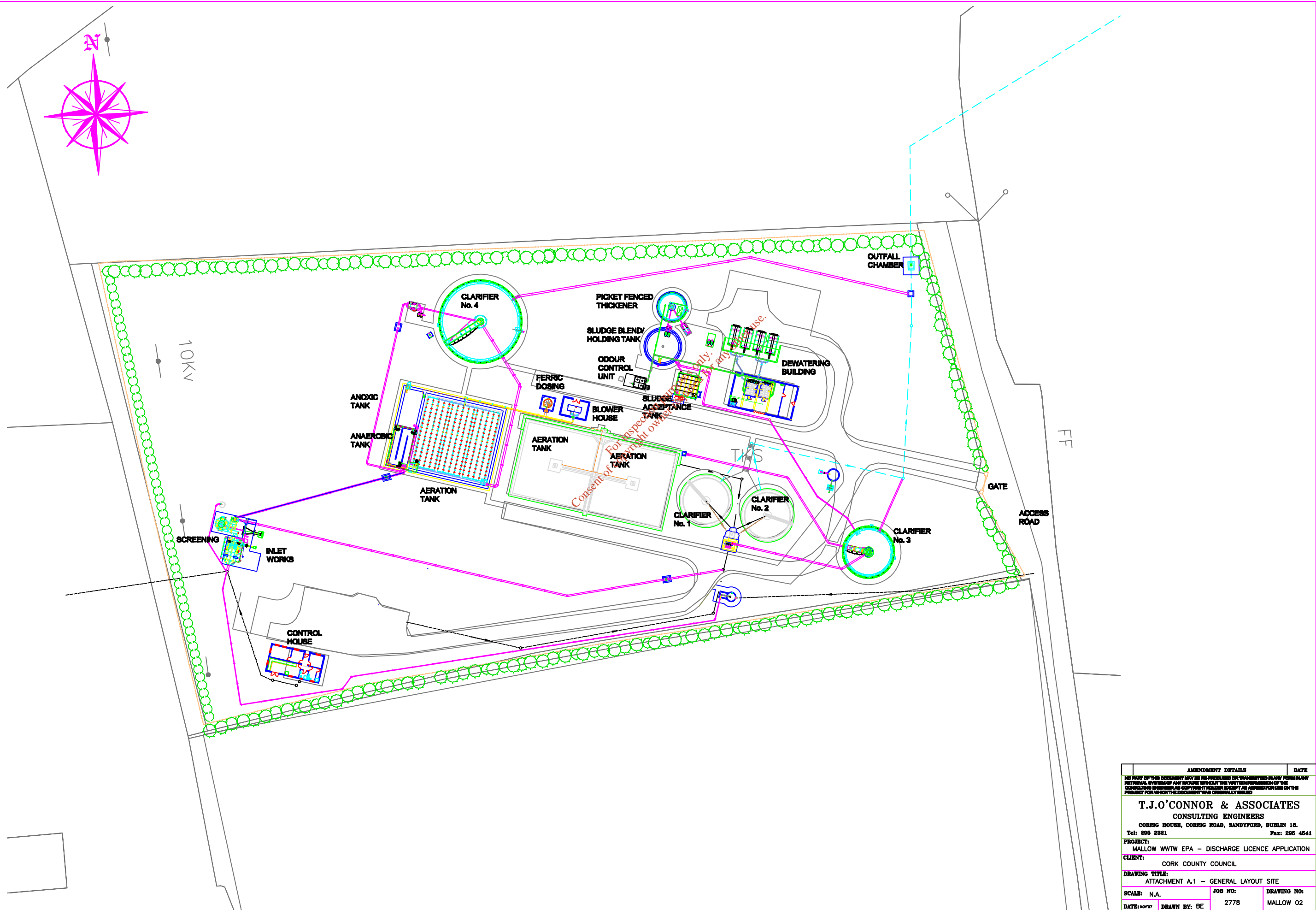
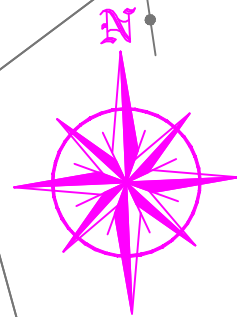
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**ATTACHMENT NO. A.1**  
**LAYOUT MAP**  
**GENERAL SITE LAYOUT**

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AMENDMENT DETAILS		DATE
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<b>T.J.O'CONNOR &amp; ASSOCIATES</b> CONSULTING ENGINEERS CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18. Tel: 295 2321 Fax: 295 4541		
<b>PROJECT:</b> MALLOW WWTW EPA - DISCHARGE LICENCE APPLICATION		
<b>CLIENT:</b> CORK COUNTY COUNCIL		
<b>DRAWING TITLE:</b> ATTACHMENT A.1 - GENERAL LAYOUT SITE		
SCALE: N.A.	JOB NO: 2778	DRAWING NO: MALLOW 02
DATE: 2013/07/25	DRAWN BY: BE	

# **SECTION B GENERAL**

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## SECTION B: GENERAL

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

### B.1 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 clearly marked in red ink.

<b>Name**:</b>	Cork County Council
<b>Address:</b>	Northern Division
	Annabella
	Mallow
	Co. Cork.
<b>Tel:</b>	022 21123
<b>Fax:</b>	022 21983
<b>e-mail:</b>	frank.cronin@corkcoco.ie

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

\*\*Where an application is being submitted on behalf of more than one water services authority the details provided in Section B.1 shall be that of the lead water services authority.

<b>Name*:</b>	Frank Cronin
<b>Address:</b>	Cork Co. Council
	Annabella
	Mallow
	Co. Cork.
<b>Tel:</b>	022 21123
<b>Fax:</b>	022 21983
<b>e-mail:</b>	frank.cronin@corkcoco.ie

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

#### Co-Applicant's Details

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

\*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**

<b>Name*:</b>	Roadbridge/EPS Ltd.
<b>Address:</b>	IDA Industrial Estate
	Quartern town
	Mallow
<b>Tel:</b>	022 31200
<b>Fax:</b>	022 31250
<b>e-mail:</b>	reception@epsireland.com

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

Attachment included	Yes	No
	√	

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

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

<b>Name*:</b>	Pat Walsh, Senior Executive Engineer
<b>Address:</b>	Cork Co. Council
	Annabella
	Mallow
	Co. Cork.
<b>Grid ref (6E, 6N)</b>	E : 157318 N : 097988
<b>Level of Treatment</b>	TERTIARY
<b>Primary Telephone:</b>	022 21123
<b>Fax:</b>	022 21983
<b>e-mail:</b>	pat.walsh@corkcoco.ie

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

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



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

<b>Type of Discharge</b>	Piped Discharge
<b>Unique Point Code</b>	SW 1 - Mallow
<b>Location</b>	Within WWTP Site
<b>Grid ref (6E, 6N)</b>	E : 157530 N : 098140

**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.

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

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

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

<b>Type of Discharge</b>	EMERGENCY
<b>Unique Point Code</b>	SW 2 - Mallow
<b>Location</b>	Pumping Station at Bearforest Lower
<b>Grid ref (6E, 6N)</b>	E : 156245 N : 097959

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

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

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

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

<b>Type of Discharge</b>	EMERGENCY
<b>Unique Point Code</b>	SW 2 - Mallow
<b>Location</b>	Outfall from Pumping Station at Bearforest Lower
<b>Grid ref (6E, 6N)</b>	E : 156245 N : 097959

<b>Type of Discharge</b>	EMERGENCY
<b>Unique Point Code</b>	SW 3 - Mallow Combined Storm Overflow
<b>Location</b>	Summerhill, Bearforest Lower
<b>Grid ref (6E, 6N)</b>	E : 156251 N : 097599

<b>Type of Discharge</b>	EMERGENCY
<b>Unique Point Code</b>	SW 4 - Mallow Combined Storm Overflow
<b>Location</b>	Ballylough Cross, Spa Glen
<b>Grid ref (6E, 6N)</b>	E : 156440 N : 099586

<b>Type of Discharge</b>	EMERGENCY
<b>Unique Point Code</b>	SW 5 - Mallow Combined Storm Overflow
<b>Location</b>	Quartern Road Railway Bridge, Ballydahin
<b>Grid ref (6E, 6N)</b>	E : 155076 N : 097856

<b>Type of Discharge</b>	EMERGENCY
<b>Unique Point Code</b>	SW 6 - Mallow Combined Storm Overflow
<b>Location</b>	Lower Beecher Street, Lacknalooha
<b>Grid ref (6E, 6N)</b>	E : 155487 N : 098937

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<b>Type of Discharge</b>	EMERGENCY
<b>Unique Point Code</b>	SW 7 - Mallow Combined Storm Overflow
<b>Location</b>	Davis Street / Shambles Lane, Castlelands
<b>Grid ref (6E, 6N)</b>	E : 156229 N : 097992

<b>Type of Discharge</b>	EMERGENCY
<b>Unique Point Code</b>	SW 8 - Mallow Combined Storm Overflow
<b>Location</b>	West End, Mallow
<b>Grid ref (6E, 6N)</b>	E : 155530 N : 098572

<b>Type of Discharge</b>	EMERGENCY
<b>Unique Point Code</b>	SW 9 - Mallow Combined Storm Overflow
<b>Location</b>	Ballydahin
<b>Grid ref (6E, 6N)</b>	E : 156023 N : 098019

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

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

### B.6 Planning Authority

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

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

--

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

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

<b>Local Authority Planning File Reference N°:</b>	
--	--

**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
		✓

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B.7 (ii) Health Services Executive Region

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

<b>Name:</b>	Health Service Executive
<b>Address:</b>	North Cork Area Headquarters
	Gouldshill House
	Mallow
	Co. Cork.
<b>Tel:</b>	022 30200
<b>Fax:</b>	022 30211
<b>e-mail:</b>	N/A

B.7 (iii) Other Relevant Local Authorities

Regulation 13 of the Waste Water Discharge (Authorisation) Regulations, 2007 requires all applicants, 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, to notify the relevant local authority of the said application.

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

<b>Relevant Authority Notified</b>	<b>Yes</b>	<b>No</b> ✓
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**Attachment B.7(iii)** should contain a copy of the notice issued to the relevant local authority.

<b>Attachment included</b>	<b>Yes</b>	<b>No</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 and by way of a site notice. See *Guidance Note*.

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

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

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

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

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

<b>Population Equivalent</b>	<b>18,000</b>
<b>Data Compiled (Year)</b>	<b>2000</b>
<b>Method</b>	<b>Pollution Load Assessment</b>

**B.9 (ii) FEES**

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

Class of waste water discharge	Fee (in €)
	€30,000

Appropriate Fee Included	Yes	No
	✓	

**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.

**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.

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

Attachment included	Yes	No
		NONE

**B.12 Foreshore Act Licences.**

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

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

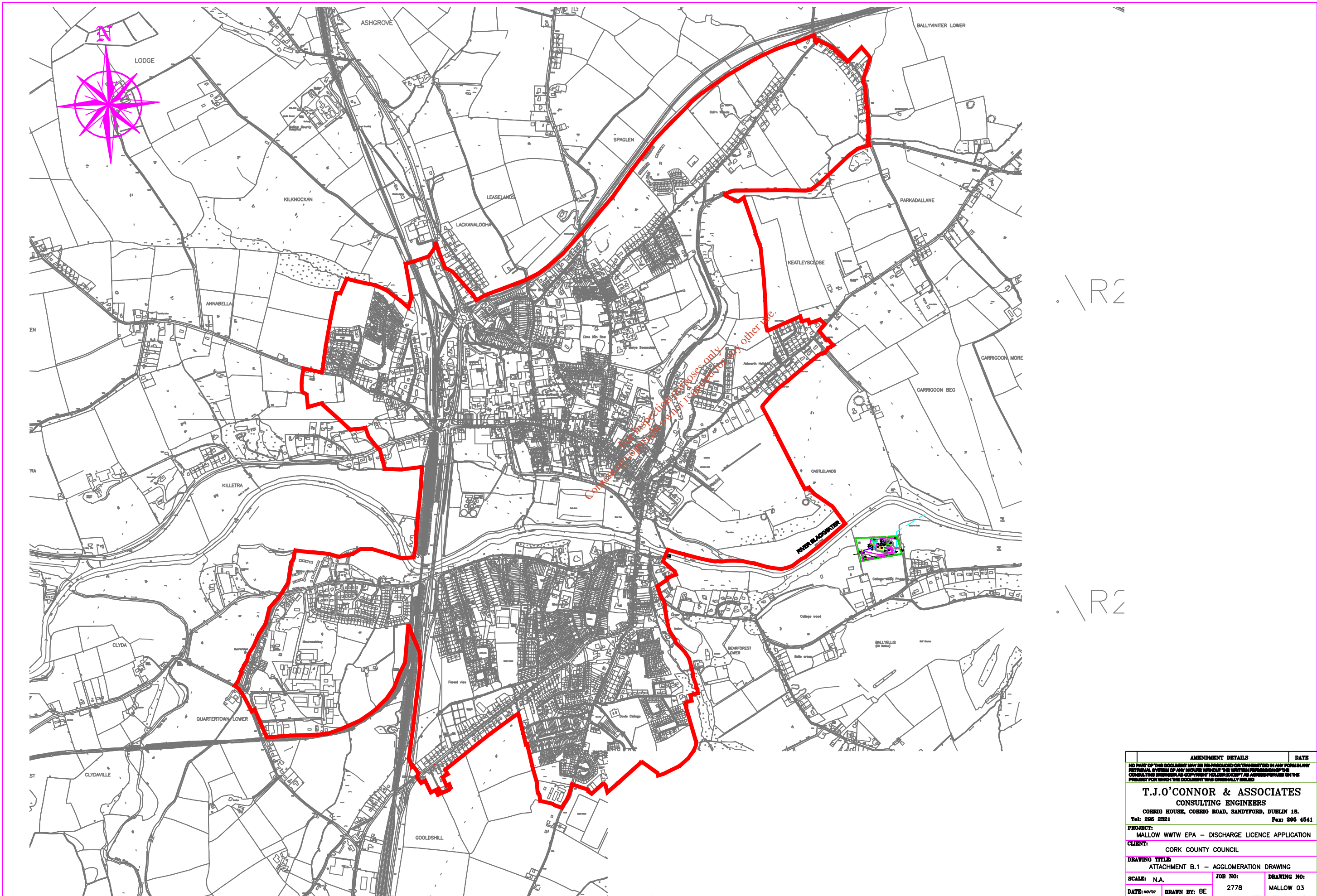
Attachment included	Yes	No NONE
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**ATTACHMENT NO. B.1**  
**AGGLOMERATION BOUNDARY SERVED**  
**BY WWTP**

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. \ R2

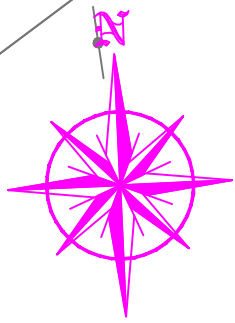
AMENDMENT DETAILS		DATE
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<b>PROJECT:</b> MALLOW WWTW EPA - DISCHARGE LICENCE APPLICATION		
<b>CLIENT:</b> CORK COUNTY COUNCIL		
<b>DRAWING TITLE:</b> ATTACHMENT B.1 - AGGLOMERATION DRAWING		
<b>SCALE:</b> N.A.	<b>JOB NO:</b> 2778	<b>DRAWING NO:</b> MALLOW 03
<b>DATE:</b> 04/07/13	<b>DRAWN BY:</b> BE	

**ATTACHMENT NO. B.2**  
**SITE BOUNDARY PLAN/OVERALL SITE**  
**PLAN**

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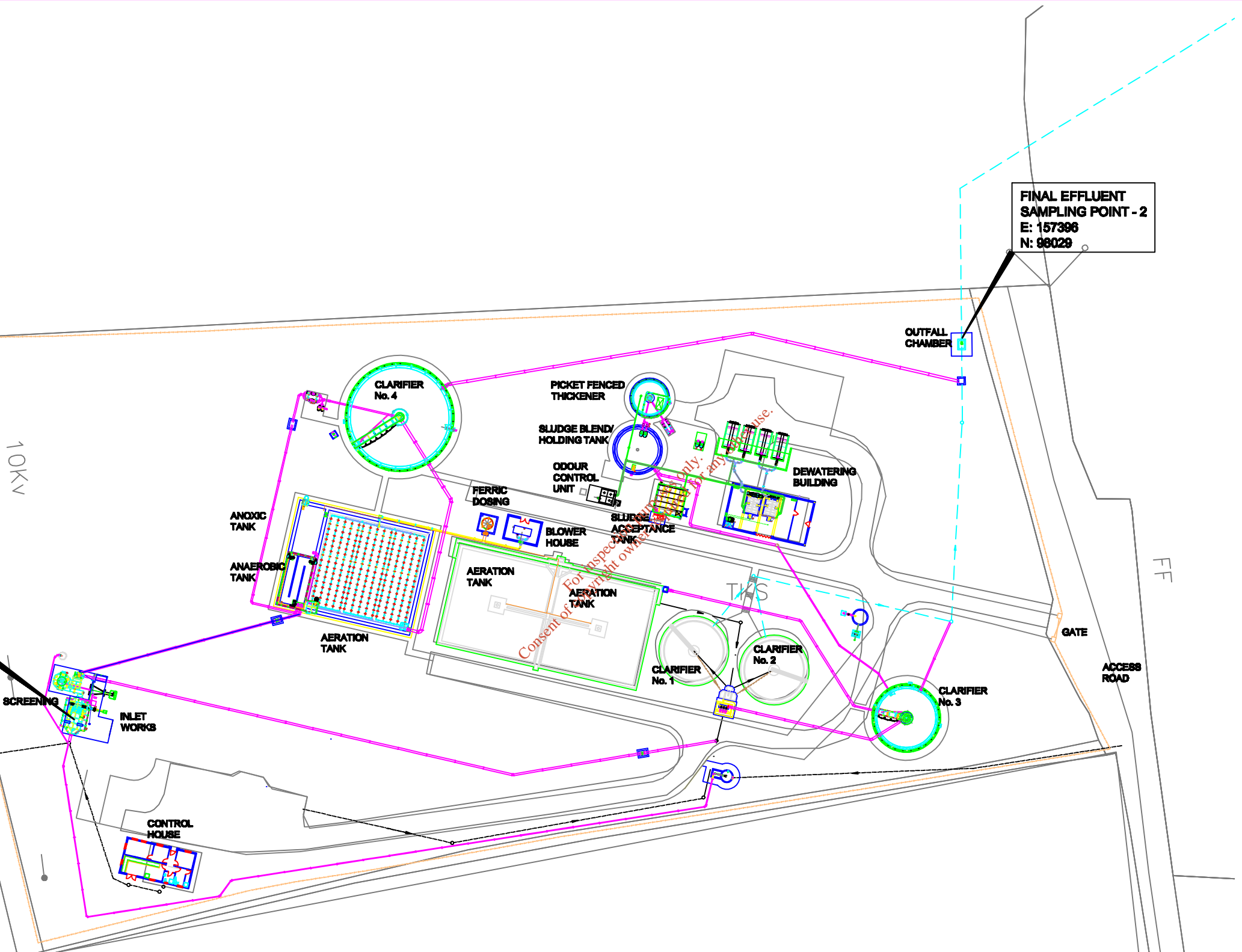




10KV

**INFLUENT SAMPLING POINT - 1**  
E: 157230  
N: 97958

**FINAL EFFLUENT SAMPLING POINT - 2**  
E: 157396  
N: 98029

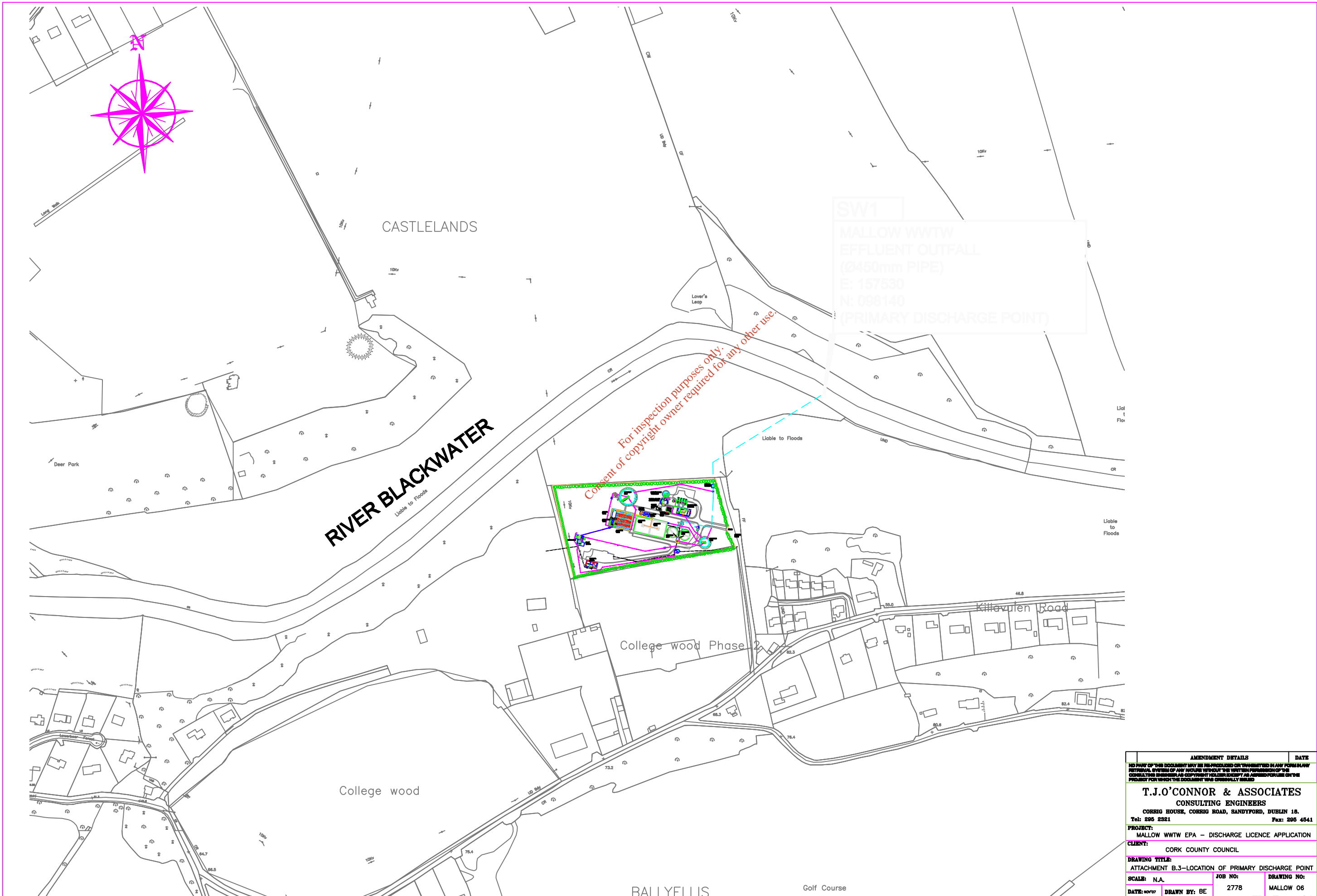


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CORRIG HOUSE, CORRIG ROAD, SANDYFORD, DUBLIN 18.		
Tel: 295 2321		Fax: 295 4541
PROJECT: MALLOW WWTW EPA - DISCHARGE LICENCE APPLICATION		
CLIENT: CORK COUNTY COUNCIL		
DRAWING TITLE: ATTACHMENT B.2 - OVERALL SITE PLAN		
SCALE: N.A.	JOB No: 2778	DRAWING No: MALLOW 05
DATE: 09/07	DRAWN BY: BE	

**ATTACHMENT NO. B.3**  
**LOCATION OF PRIMARY DISCHARGE**  
**POINT AT BALLYELLIS, MALLOW.**

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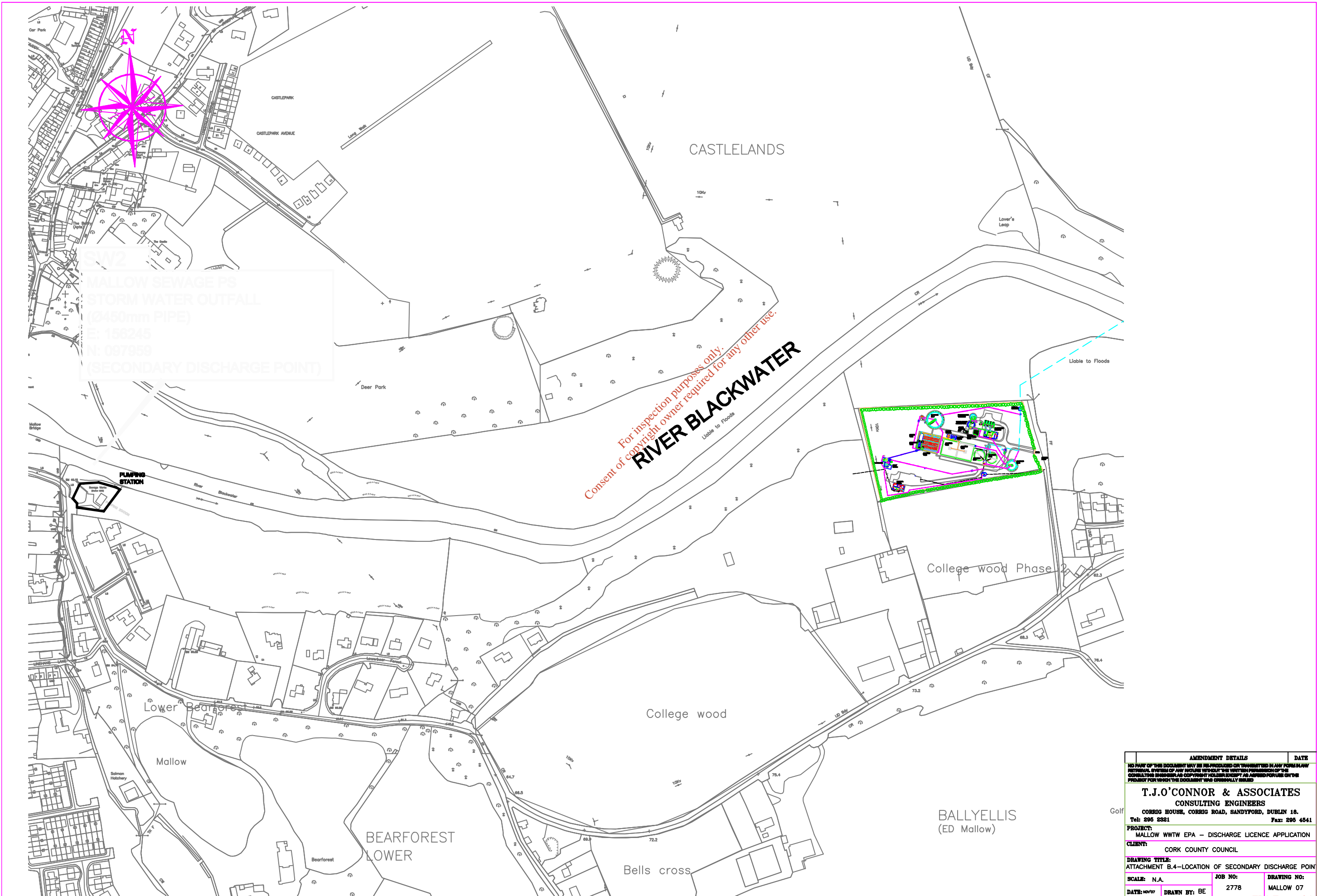


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<b>PROJECT:</b> MALLOW WWTW EPA - DISCHARGE LICENCE APPLICATION		
<b>CLIENT:</b> CORK COUNTY COUNCIL		
<b>DRAWING TITLE:</b> ATTACHMENT B.3-LOCATION OF PRIMARY DISCHARGE POINT		
<b>SCALE:</b> N.A.	<b>JOB NO:</b> 2778	<b>DRAWING NO:</b> MALLOW 06
<b>DATE:</b> 2013	<b>DRAWN BY:</b> BE	

**ATTACHMENT NO. B.4**  
**LOCATION OF SECONDARY DISCHARGE**  
**POINT AT:-**

**BEARFOREST LOWER, MALLOW.**

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<b>PROJECT:</b> MALLOW WWTW EPA - DISCHARGE LICENCE APPLICATION		
<b>CLIENT:</b> CORK COUNTY COUNCIL		
<b>DRAWING TITLE:</b> ATTACHMENT B.4-LOCATION OF SECONDARY DISCHARGE POINT		
<b>SCALE:</b> N.A.		<b>JOB NO:</b> 2778
<b>DATE:</b> 06/07		<b>DRAWING NO:</b> MALLOW 07
<b>DRAWN BY:</b> BE		



# **ATTACHMENT NO. B.5**

## **LOCATION OF STORM OVERFLOW POINTS**

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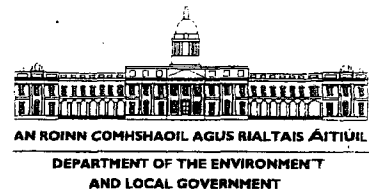
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<b>PROJECT:</b> MALLOW WWTW EPA - DISCHARGE LICENCE APPLICATION		
<b>CLIENT:</b> CORK COUNTY COUNCIL		
<b>DRAWING TITLE:</b> ATTACHMENT B.5 - COMBINED SEWER OVERFLOWS		
<b>SCALE:</b> N.A.	<b>JOB NO:</b> 2778	<b>DRAWING NO:</b> MALLOW 08
<b>DATE:</b> 06/07	<b>DRAWN BY:</b> BE	

# **ATTACHMENT NO. B.6**

## **RECENT PLANNING PERMISSION & EIS**

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**COPY**



21 June, 2001



Secretary  
Cork County Council  
Annabella  
Mallow  
Co. Cork

**Re: Mallow Sewerage Treatment Plant  
Environmental Impact Statement**

**A Chara**

I am directed by the Minister for the Environment and Local Government, to refer to the application by Cork County Council, Northern Division, to the Minister under Article 123 of the Local Government (Planning & Development) Regulations, 1994, S.I. No. 86 of 1994, for the certification of the expansion and upgrading of Mallow Sewerage Treatment Works.

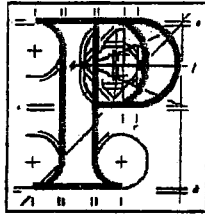
In accordance with Article 4(6) of the European Communities (Environmental Impact Assessment) Regulations this application was transferred to An Bord Pleanála. I am now to advise that An Bord Pleanála, has certified that the proposed development will embody the best practicable means to prevent or limit significant adverse effects on the environment, subject to the modification included in the attached Order.

A notice outlining the Bord's decision on the application will be published by An Bord Pleanála in the *The Irish Times*, *The Irish Independent*, *The Examiner* and *The Star*.

Mise le meas

  
Bríd Conway  
Water Services Section

# An Bord Pleanála



## Local Government (Planning and Development) Regulations, 1994

## European Communities (Environmental Impact Assessment) Regulations, 2000

### County Cork

**WHEREAS** the Council of the County of Cork did, on 12<sup>th</sup> day of October, 2000, make application to the Minister for the Environment and Local Government pursuant to Article 123 of the Local Government (Planning and Development) Regulations, 1994, S.I. No. 86 of 1994, for the certification of the expansion and upgrading of Mallow Sewage Treatment Works.

**AND WHEREAS** Article 4(6) of the European Communities (Environmental Impact Assessment) Regulations, 2000, provides that any such application shall be transferred to An Bord Pleanála and the Board shall, in lieu of the Minister, determine the application in accordance with the Local Government (Planning and Development) Regulations, 1994.

**NOW THEREFORE** An Bord Pleanála, pursuant to Articles 119 and 127 of the said Local Government (Planning and Development) Regulations, 1994, hereby certifies that, subject to the modification set out in the schedule hereto, the proposed expansion and upgrading of the Mallow Sewage Treatment Works will embody the best practicable means to prevent or limit significant adverse effects on the environment.

### SCHEDULE

1. The proposed extension of the water treatment plant shall include phosphorous removal facilities to ensure that the concentration for total phosphorous in the final effluent is 2mg./litre P or less, as measured in accordance with the Fifth Schedule of S.I. No. 419 of 1994.

2. Final effluent flow measurement shall be provided at the extended works.
3. Provision shall be made at the extended works for the screening prior to treatment of all incoming flows including local flows.



*John J. Conner*

**Member of An Bord Pleanála  
duly authorised to authenticate  
the seal of the Board.**

Dated this *12<sup>th</sup>* day of *June* 2001.

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# CORK COUNTY COUNCIL

## Expansion & Upgrading of Mallow Sewage Treatment Works

### Publication of Environmental Impact Statement

Notice in accordance with Part IX of the Local Government  
( Planning & Development ) Regulations, 1994

Notice is hereby given that Cork County Council, in pursuance of the above Regulations, has prepared an Environmental Impact Statement in respect of the **Expansion & Upgrading of Mallow Sewage Treatment Works:**

- (a) The proposed development provides for the upgrading and expansion of the existing sewage treatment works located at **Ballyellis, Mallow, Co. Cork.**
- (b) (1) Cork County Council proposes to make an application to the Minister for the Environment & Local Government for certification of the proposed development.  
(2) An Environmental Impact Statement has been prepared in respect of the proposed development.  
(3) The Environmental Impact Statement will be available for inspection and for purchase, at **Cork County Council Offices, Annabella, Mallow, Co. Cork and at the offices of Mallow U.D.C., Town Hall, Mallow, Co. Cork between the hours of 09.00 – 13.00 and 14.00 – 17.00 during the period 16<sup>th</sup> August 2000 and 19<sup>th</sup> September 2000.**  
(4) Submissions or observations in relation to the effects on the environment of the proposed development may be made in writing to the Minister for the Environment & Local Government, O'Connell Bridge House, Dublin 2, before **16.00 hours on Wednesday 11<sup>th</sup> October 2000.**

**John O'Neill,  
County Secretary,  
Annabella,  
Mallow,  
Co. Cork.  
16<sup>th</sup> August 2000.**

#### Advertisements:

The Statutory Public Notices in relation to the publication of the Environmental Impact Statement herein were published in:

- (a) "Irish Examiner" on 16<sup>th</sup> August, 2000.
- (b) "The Avondhu" on 17<sup>th</sup> August, 2000.
- (c) "The Mallow Star" on 17<sup>th</sup> August, 2000.