

This is a draft document and is subject to revision.



# Waste Water Discharge Certificate of Authorisation Application Form

EPA Ref. N<sup>o</sup>:  
(Office use only)

**Environmental Protection Agency**  
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### Tracking Amendments to Draft Application Form

Version No.	Date	Amendment since previous version	Reason
V. 1.	23/03/09	N/A	

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

**CONTENTS**

	<b>Page</b>
<b>ABOUT THIS APPLICATION FORM</b>	<b>4</b>
<b>PROCEDURES</b>	<b>5</b>
<b>SECTION A: NON-TECHNICAL SUMMARY</b>	<b>7</b>
<b>SECTION B: GENERAL</b>	<b>11</b>
<b>SECTION C: INFRASTRUCTURE &amp; OPERATION</b>	<b>18</b>
<b>SECTION D: DISCHARGES TO THE AQUATIC ENVIRONMENT</b>	<b>21</b>
<b>SECTION E: MONITORING</b>	<b>23</b>
<b>SECTION F: EXISTING ENVIRONMENT &amp; IMPACT OF THE DISCHARGE(S)</b>	<b>26</b>
<b>SECTION G: PROGRAMMES OF IMPROVEMENTS</b>	<b>35</b>
<b>SECTION H: DECLARATION</b>	<b>37</b>
<b>SECTION I: JOINT DECLARATION</b>	<b>38</b>

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## ABOUT THIS APPLICATION FORM

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

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

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

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

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

## PROCEDURES

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

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

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

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

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

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

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

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

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

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

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

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## SECTION A: NON-TECHNICAL SUMMARY

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

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

Saleen is located approximately 8 kilometres south of Midleton, on the R630, and approximately 8 kilometres northeast of Whitegate. The village is located at the southern end of Cork harbour in an area comprising considerable natural and scenic amenities. Poul nabibe Inlet, which is located to the west of the village is designated as part of an extensive nature conservation area. The village is currently served by a septic tank. The Saleen stream runs adjacent to the village and it meets the Cloyne river approximately 400m southwest of the village. The existing septic tank is located immediately northeast of the confluence. The Cloyne river becomes tidal downstream of the confluence where it becomes Saleen Creek.

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

A description of:

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

Supporting information should form **Attachment N° A.1**

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

The Saleen sewerage network which is operated by Cork County Council comprises of the following elements :

- Pipes networks Covering contributory areas within the village.
- Inlet
- Storm Overflow Chamber
- Septic Tank
- Outlet

When the tank was built the Population Equivalent PE contributing to it was far less than at present. The current PE contributing to the septic tank is

approximately 490. 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 an existing sampling regime in place.

Saleen Sewerage Scheme is included in the Water Services Investment Programme 2007-2009.

Cork County Council is currently awaiting departmental approval for funding to proceed with the 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 Saleen Village agglomeration arises from the following sources:

- Domestic Population
- Commercial Premises
- School &
- Infiltration

In addition to the domestic load, there are also currently 1 Pub/Restaurant, 1 School.

The sewage is collected via the existing sewer network and is discharged into the village septic tank built for this purpose. The septic tank does not receive any other sludge imported from other municipal waste water sources or septic tanks.

Other potential emissions from the existing waste water treatment process include;

- Odour generated from the treatment process – No recorded issues to date, but verbal complaints received from local residents.

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 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.

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## SECTION B: GENERAL

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

### B.1 Agglomeration Details

**Name of Agglomeration:** Saleen Village

#### Applicant's Details

##### Name and Address for Correspondence

Only application documentation submitted by the applicant and by the nominated person will be deemed to have come from the applicant.

Provide a drawing detailing the agglomeration to which the Certificate of Authorisation application relates. It should have the boundary of the agglomeration to which the Certificate of Authorisation application relates clearly marked in red ink.

<b>Name*:</b>	Cork County Council South
<b>Address:</b>	Floor 5
	County Hall
	Carrigrohane Road
	County Cork
<b>Tel:</b>	021-4276891
<b>Fax:</b>	021-4276321
<b>e-mail:</b>	Corporate.affairs@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>	Ms. Patricia Power
<b>Address:</b>	floor 5
	County Hall
	Carrigrohane Road, Cork
<b>Tel:</b>	021-4285304
<b>Fax:</b>	021-4342098
<b>e-mail:</b>	Patricia.Power@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 Certificate of Authorisation application.

## Design, Build & Operate Contractor Details

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

\*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
	X	

## 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>	Michael Savage
<b>Address:</b>	Midleton Area Office , Cork County Council, Midleton, County Cork
<b>Grid ref (6E, 6N)</b>	E 188679 N 067684
<b>Level of Treatment</b>	Primary
<b>Primary Telephone:</b>	Tel. 021-4631554
<b>Fax:</b>	Fax: 021-4632023
<b>e-mail:</b>	Michael.Savage@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>X</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>Discharge to</b>	Surface Water	
<b>Type of Discharge</b>	Pipe to Stream	
<b>Unique Point Code</b>	SW1 SLEN	
<b>Location</b>	Scartlea Lower	
<b>Grid ref (6E, 6N)</b>	E	188,585
	N	067,641

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

**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>
		<b>x</b>

### 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>	Storm water	
<b>Unique Point Code</b>	SW1SLEN	
<b>Location</b>	Scartlea Lower	
<b>Grid ref (6E, 6N)</b>	E	188,585
	N	067,641

**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>x</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
	County 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>x</b>

<b>Local Authority Planning File Reference N<sup>o</sup>:</b>	Not Available
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**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
		x

**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
		x

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 southern Region
<b>Address:</b>	North Lee Local Health Office
	Abbeycourt House
	Georges Quay , Cork
<b>Tel:</b>	021-4965571
<b>Fax:</b>	021-49427228
<b>e-mail:</b>	info@ hse . ie

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

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

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

<b>Population Equivalent</b>	490
<b>Data Compiled (Year)</b>	2009
<b>Method</b>	HOUSE COUNT 2009

### B.8 (ii) Pending Development

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

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

A planning search in January 2003 revealed that planning had been granted for an additional 54 houses. Since January 2003 the following planning applications have been granted for areas in and adjacent to Saleen: 10 dwellings and 2 no. retail outlets ,Scartlea Upper 6 no. dwellings, Scartlea Lower: 5 no. individual dwellings ,one small estate of 6 houses and 1 estate of 39 houses. In addition to the above cognisance will have to be taken of the proposed Midleton Electoral Area Local area plan. The pe figure of 490 takes all of the above into account.

### B.8 (iii) FEES

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

<b>Class of waste water discharge</b>	<b>Fee : € 3000</b>

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

\*Please see copy of attached letter to F Clinton Programme Manager , Licencing Unit EPA on December 18<sup>th</sup> 2009

### B.9 Capital Investment Programme

State whether a programme of works has been prioritised for the development of infrastructure to appropriately collect, convey, treat and discharge waste water from the relevant agglomeration. If a programme of works has been prioritised provide details on funding (local or national Water Services Investment Plans) 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.

A programme of work titled Saleen Sewerage Scheme, part of the water services investment programme (WSIP) 2007-2009 was prioritised for the development of infrastructure to collect ,convey, treat and discharge waste water from the agglomeration. As per the DEHLG's Circular L309, the scheme had to be curtailed.

The DEHLG has requested that all local authorities prepare a list of assessment of needs for water and sewerage schemes . Cork County Council's list is awaiting approval of elected members,the outcome of the department review will not be known before March 2010.Saleen is included on the list.



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

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

**B.10 Significant Correspondence**

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

**Not Applicable**

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

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

**B.11 Foreshore Act Licences.**

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

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

**Not Applicable**

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

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## **SECTION C: INFRASTRUCTURE & OPERATION**

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

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

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

**There is no waste water treatment plant at present .The village is currently served by a septic tank. The Saleen stream runs adjacent to the village and it meets the Cloyne river approximately 400m southwest of the village. The existing septic tank is located immediately northeast of the confluence. The Cloyne river becomes tidal downstream of the confluence where it becomes Saleen Creek.**

#### 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.

**The Saleen sewerage network which is operated by Cork County Council comprises of the following elements :**

- **Pipes networks Covering contributory areas within the village.**
- **Inlet**
- **Storm Overflow Chamber**
- **Septic Tank**
- **Outlet**

**When the tank was built the Population Equivalent PE contributing to it was far less than at present. The current PE contributing to the septic tank is approximately 490. 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 an existing sampling regime in place.**

**Saleen Sewerage Scheme is included in the Water Services Investment Programme 2007-2009.**

Cork County Council is currently awaiting departmental approval for funding to proceed with the Scheme. It is proposed to procure the treatment plant under a design, build, operate contract. If funding became available, and construction was approved 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.

### 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 is highly unlikely that the effluent meets the required standard.

### 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 are no records available showing 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 from 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 WWTP will include Storm Holding Tanks which will discharge to the proposed new outfall.**

C.1.2 Pumping Stations

**No pumping station**

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.

**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.

<b>Attachment included</b>	<b>Yes</b>	<b>No</b>
	<b>x</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 discharges are made or are to be made.**

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

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

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

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

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

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

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

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

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

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

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

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

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

Applicants should submit the following information for each discharge point:

**Table D.2:**

PT_CD	PT_TYPE	LA_NAME	RWB_TYPE	RWB_NAME	DESIGNATION	EASTING	NORTHING
SW1 SLE N	Primary	CORK County Council)	River	Cloyne river	pNHA	18858 5	067641

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

## SECTION E: MONITORING

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

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

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

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

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

### E.2. Monitoring and Sampling Points

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

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

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

**No on going monitoring is taking place , but sampling & testing took place to satisfy the requirement of this application.**

#### 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:**

- pH
- 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
	X	

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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_TYPE	EASTING	NORTHING	VERIFIED
aSW-1u asw-1d	u/stream d/stream	Sampling	E188779 E188674	N067838 N067672	N N

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

### E.4 Sampling Data

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

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

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

Attachment included	Yes	No
	X	

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

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

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

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

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

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

## **The Existing Environment and the Impact of Discharges :**

- **The Saleen stream which runs adjacent to the village and it meets the Cork Harbour water body (CHWB) approximately 400m southwest of the village falls (Water Body Code : SW-06-0000) within hydrometric area 19.**
- **The CHWB River has an overall status of "moderate" and has been classified as being "at Risk" or strongly expected to achieve good status by 2015 under the Water Framework Directive Article 5 Characterisation (2004).**
- **This area is included in a Special Protection Area (SPA) under EU Directive 79/409/EEC on the conservation of wild birds. A number of seed oyster trestles are located in Saleen Creek.**
- **The Saleen stream runs adjacent to the village and it meets the Cloyne river approximately 400m southwest of the village.**
- **The existing septic tank is located immediately northeast of the confluence. The Cloyne river becomes tidal downstream of the confluence where it becomes Saleen Creek.**
- **The CHWB is classified as being 'INTERMEDIATE' in terms of water quality.**
- **The 1998 Phosphorus Regulations set targets for phosphorus levels and biological quality (Q-values) for rivers and lakes. Where water quality is satisfactory it must be maintained and where water quality is unsatisfactory it must be improved. For levels of phosphorus the baseline Q-value determines the median molybdate-reactive phosphorus (MRP) to be achieved. No Q value is available. EPA monitored the Cork Harbour Water Body and has issued a intermediate .**
- **Fountainstown has been recently designated public bathing area which is about 15 km away from the Village of Saleen across the harbour.**
- **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 water bodies in table below: as shown below :**

Biological quality element	Classification system	Ecological quality ratio	Good –moderate boundary chlorophyll(ug/l)
		Good -moderate	
Phytoplankton	Phytoplankton biomass(chlorophyll)	0.33	5.0(medium value)and 10.0(90percentile value) 10.0(medium value)and 20 (90 percentile value)
	Phytoplankton composition	0.43	Percentage of single taxa counts above thresholds 39
Macroalgae	Rocky shore reduced species list multimetric system	0.60	
	Opportunistic macroalgae multimetric system	0.60	
<b>Thermal conditions</b>			
Temperature		Not greater than 1.5 °C rise in ambient temperature outside the mixing zone	
<b>Oxygenation conditions</b>		Coastal water body	
Biochemical Oxygen Demand (BOD) (mgO2/l)		NA	
Dissolved oxygen lower limit		(35 PSU)95%ile>80% Saturation	
Dissolved oxygen upper limit		(35PSU) 95%ile<120% Saturation	
<b>Acidification Status</b>		COASTAL Water Body	
<b>Nutrient conditions</b>		Coastal water body	
Dissolved inorganic Nitrogen (mgN/I)		34.5 PSU<.25MG N/I	

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.

**Cork County Council has monitored 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 E4.**

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

**Not Applicable**

- 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)

### **Assessment of Relevant Legislation Applicable to Saleen Discharge**

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

- **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 Saleen is primarily 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 Water Framework Directive (WFD) are to protect all high status waters, prevent further deterioration 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 801/68/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.**

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### 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. A site synopsis for the designation is included in Attachment F. This area is included in a Special Protection Area (SPA) under EU Directive 79/409/EEC on the conservation of wild birds. A number of seed oyster trestles are located in Saleen Creek.

### Bathing Water Directive 79/160/EEC

Council Directive (76/160/EEC 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 to Saleen Village is The Beach at Fountains town which is 15 km away from the primary discharge point.

### EU Shellfish Waters Directive (79/923/EEC); and EU Directive on Health Conditions and the Placing on the Market of live Bivalve Molluscs (91/67/EEC) 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 Saleen septic tank does not discharge to designated shellfish waters. The closest designation is at Rostellan South and Rostellan North which are both located approximately 2 km from the discharge point. A map showing the location of the shellfish designation has been included in **Attachment F**.



In accordance with the Live Bivalve Molluscs (Production Areas) designation 2006 and Council Directive 91/492/EEC, 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 bed 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.1.2. 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.1.2 Requirements for Faecal Coliform levels for Live Bivalve Molluscs in Accordance with Directive 91/492/EEC**

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

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

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

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

**Not applicable ,no water abstraction ,discharge to transitional waters.**

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

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

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

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

## SECTION G: PROGRAMMES OF IMPROVEMENTS

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

### G.1 Compliance with Council Directives

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

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

**A programme of work titled Saleen Sewerage Scheme, part of the water services investment programme (WSIP) 2007-2009 was prioritised for the development of infrastructure to collect, convey, treat and discharge waste water from the agglomeration. As per the DEHLG's Circular L309, the scheme had to be curtailed.**

**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
		X

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

#### NOT APPLICABLE

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 Phosphorous 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.

**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
		x

**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.

**A programme of work titled Saleen Sewerage Scheme, part of the water services investment programme (WSIP) 2007-2009 was prioritised for the development of infrastructure to collect ,convey, treat and discharge waste water from the agglomeration. As per the DEHLG’s Circular L309, the scheme had to be curtailed.**

**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
		x

**G.4 Storm Water Overflows**

Provide details on a programme of improvements to ensure that discharges other than the primary and secondary discharges comply with the definition of 'storm water overflow' as per Regulation 5 of the Waste Water Discharge (Authorisation) Regulations, 2007.

**NOT APPLICABLE**

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

Attachment included	Yes	No
		x

**SECTION H: DECLARATION**

**Declaration**

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

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

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

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

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

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

**Position in organisation:** Director Of Services  
\_\_\_\_\_

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**SECTION I: JOINT DECLARATION**

**Joint Declaration** Note1

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

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

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

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

**Lead Authority**

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

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

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

**Co-Applicants**

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

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

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

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

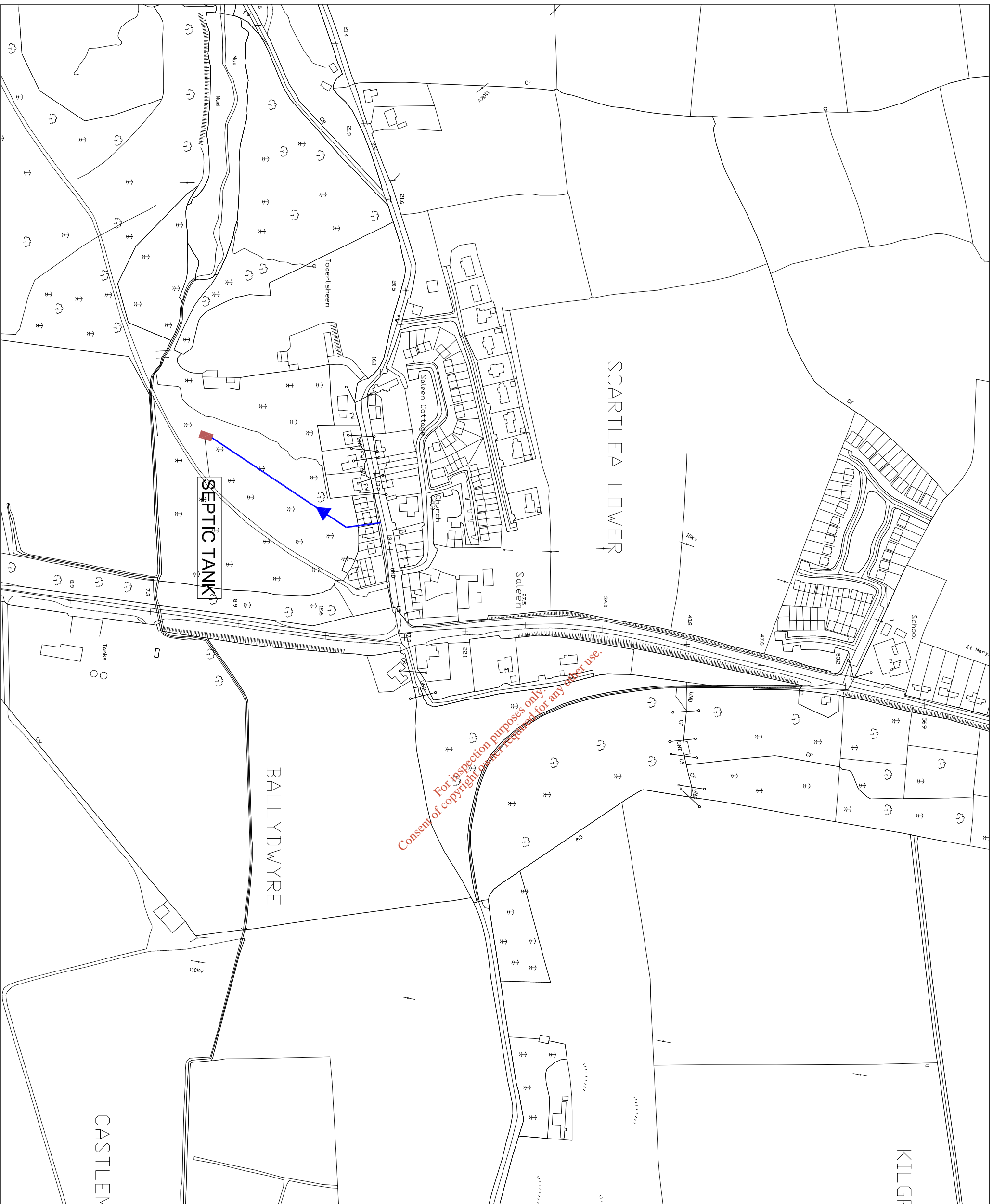
**Print signature name:** \_\_\_\_\_

**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.

ATTACHMENTS TABLE OF CONTENTS		
ATTACHMENTS	ITEM	TITLE
A.1	Map 1	Location Plan of WWTP
A.1	Map 2	Location of WWTP
B.1	Map 3	Agglomeration Boundary
B.2	Map 4	Location of WWTP
B.2	Map 5	Location of Upstream and Downstream Monitoring Points
B.3	Map 6	Location of Primary Discharge Point
B.3	Map 7	Location of Upstream and Downstream Monitoring Points
B.9	Text	Capital Investment Programme
C.1	Text	Report on existing treatment system
E.2	Text	Laboratory Accreditation
E.2	Map 8	Location of Upstream and Downstream Monitoring Points
E.4	Table	Sampling data
F.1	Text	Site Synopsis
Online Data	Table	Online Data

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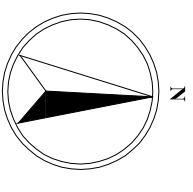


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Key Map  
Not to Scale  
OS Number: 1806



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**CORK COUNTY COUNCIL**  
SOUTHERN DIVISION

Noel O'Keefe, B.E. C.Eng. Furling F.I.E.I.M.C.E.  
County Hall, Cork.

Patricia Power,  
Director of Services,  
Asset Operations South

Project: SALEEN WWTP  
WASTE WATER  
DISCHARGE LICENCE APPLICATION

Title: Application Form  
Attachment A1\_Map1  
Location Plan of Waste Water Treatment Plant

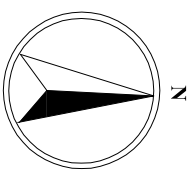
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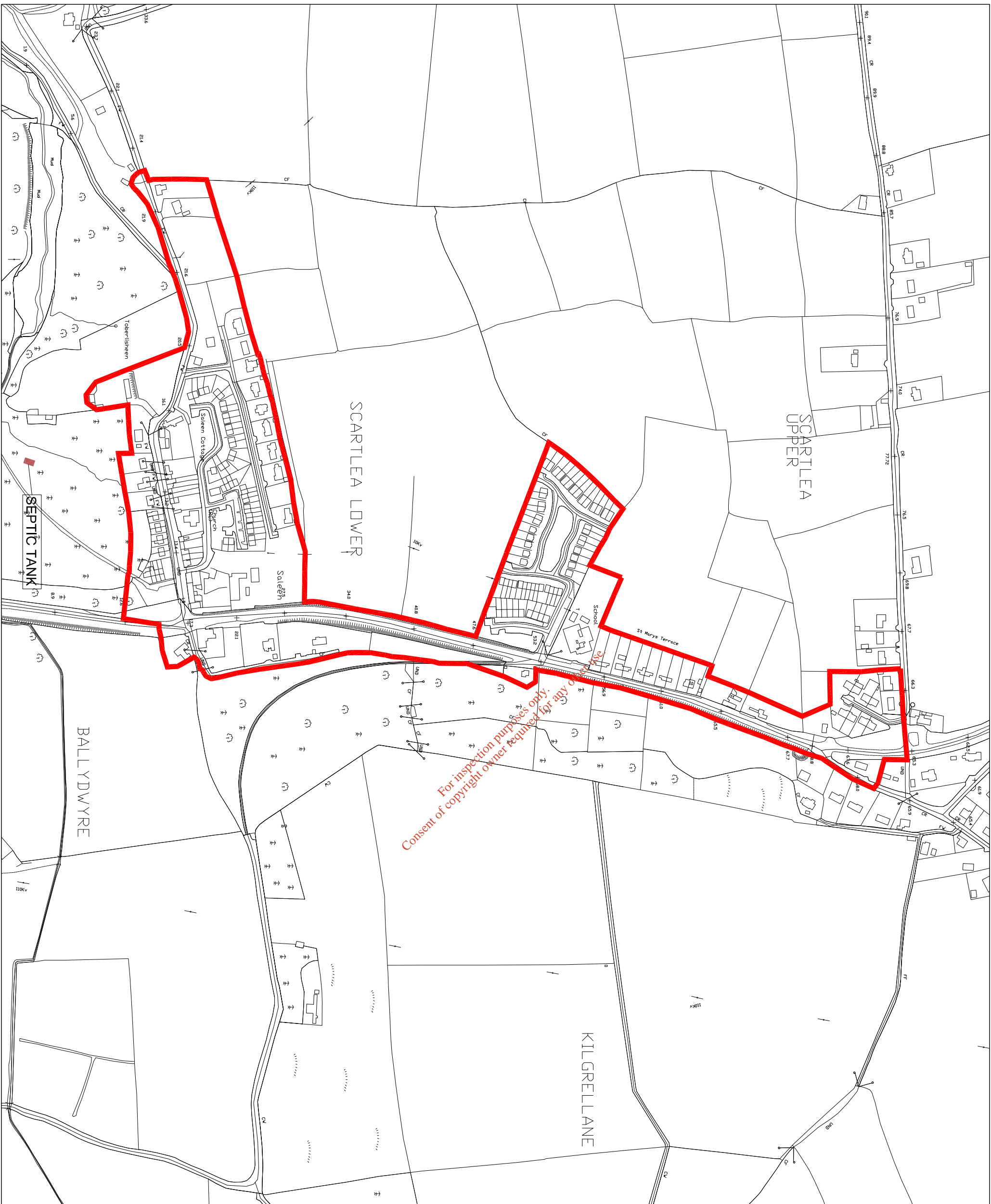
Neil O'Keefe, B.E. Chief Executive  
County Hall, Cork.

Patsia Power,  
Principal of Services,  
Asset Operations South

**Project:** SALEEN WWTP  
WASTE WATER  
DISCHARGE LICENCE APPLICATION

**Title:** Application Form  
Attachment A1\_Map2  
Location of WWTP

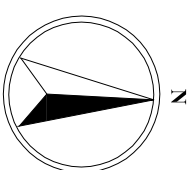
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**AGGLOMERATION  
BOUNDARY**



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**CORK COUNTY COUNCIL**  
SOUTHERN DIVISION

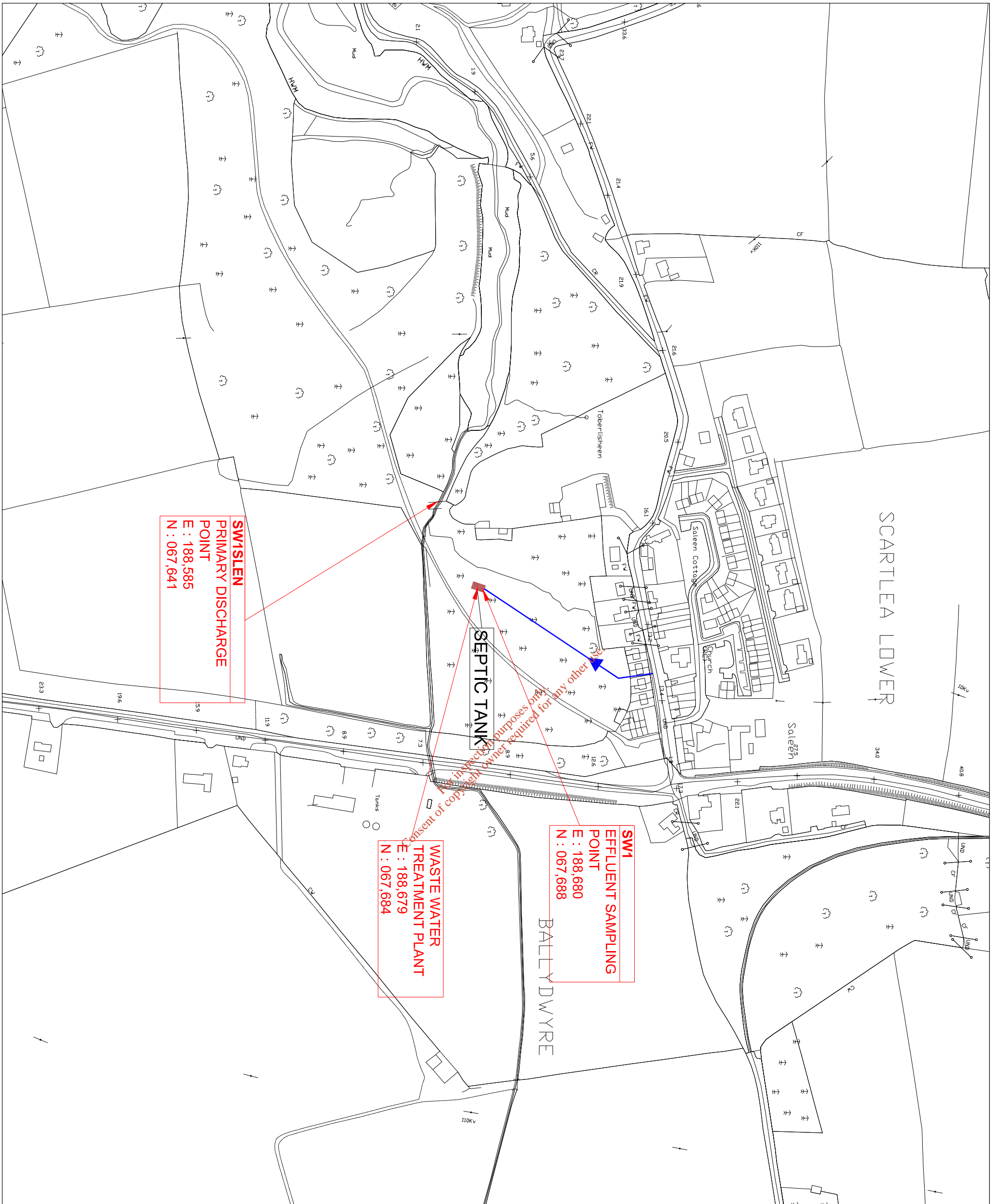
Noel O'Keefe, B.E. C. Eng. F.R.I.A.M.C.E.  
County Engineer  
County Hall, Cork.

Patricia Power,  
Director of Services  
Area Operations South

**Project: SALEEN WWTP  
WASTE WATER  
DISCHARGE LICENCE APPLICATION**

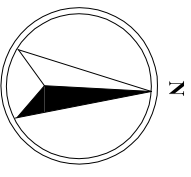
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Attachment B1 Map3  
Agglomeration Boundary Served By  
Waste Water Treatment Works

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**CORK COUNTY COUNCIL**  
SOUTHERN DIVISION

Noel O'Keefe, B.E. C.Eng. Furling F.I.E.M.I.C.E.  
County Engineer,  
County Hill, Cork.

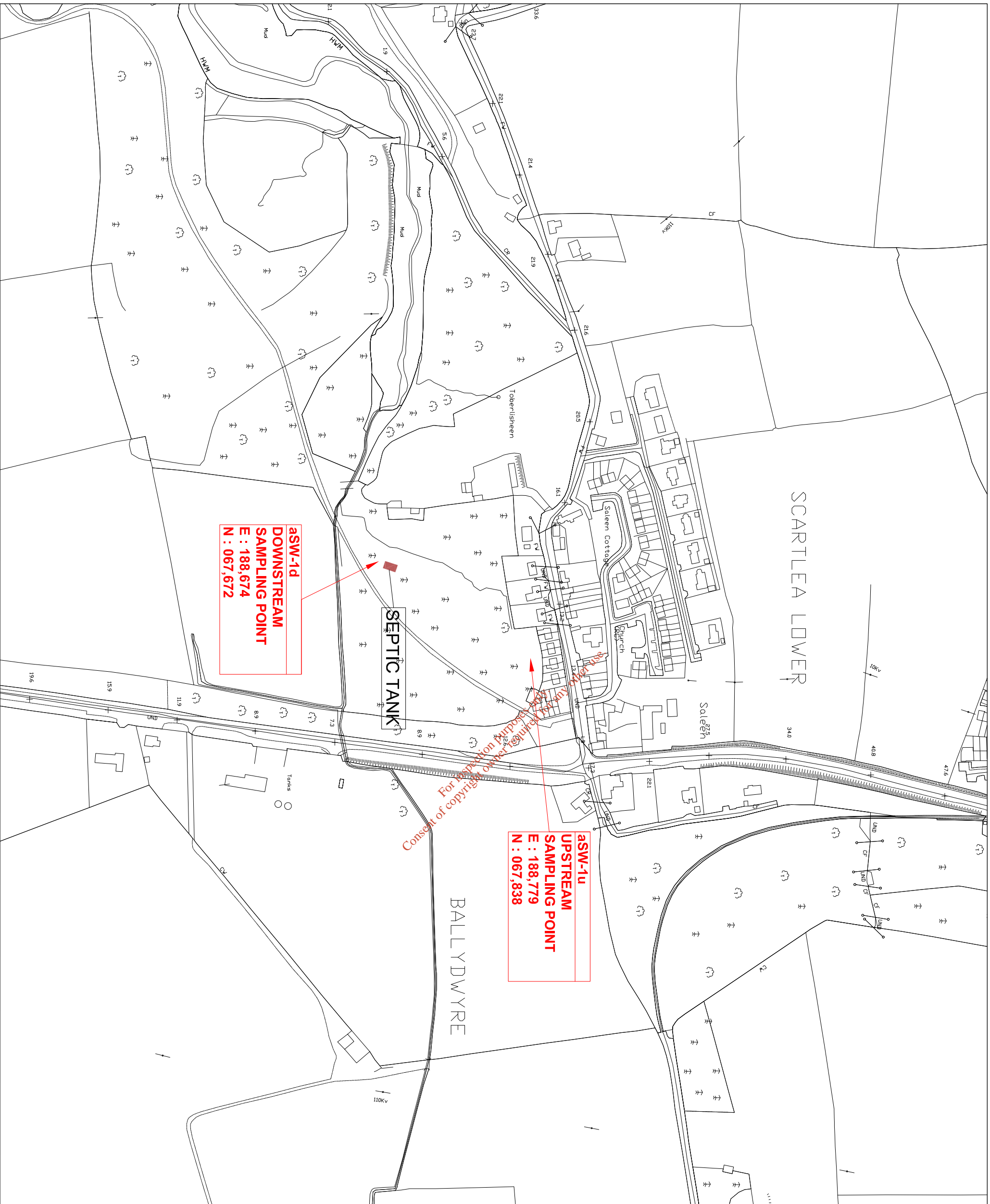
Patricia Power,  
Director of Services,  
Area Operations South

Project: SALEEN WWTP  
WASTE WATER  
DISCHARGE LICENCE APPLICATION

Title: Application Form  
Attachment B2\_Map4  
Location Plan of Waste Water Treatment Plant

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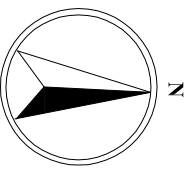




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**CORK COUNTY COUNCIL**  
SOUTHERN DIVISION

Niall O'Keefe, B.E. C.Eng. **Planning & Planning**  
County Planning  
County Hall, Cork.

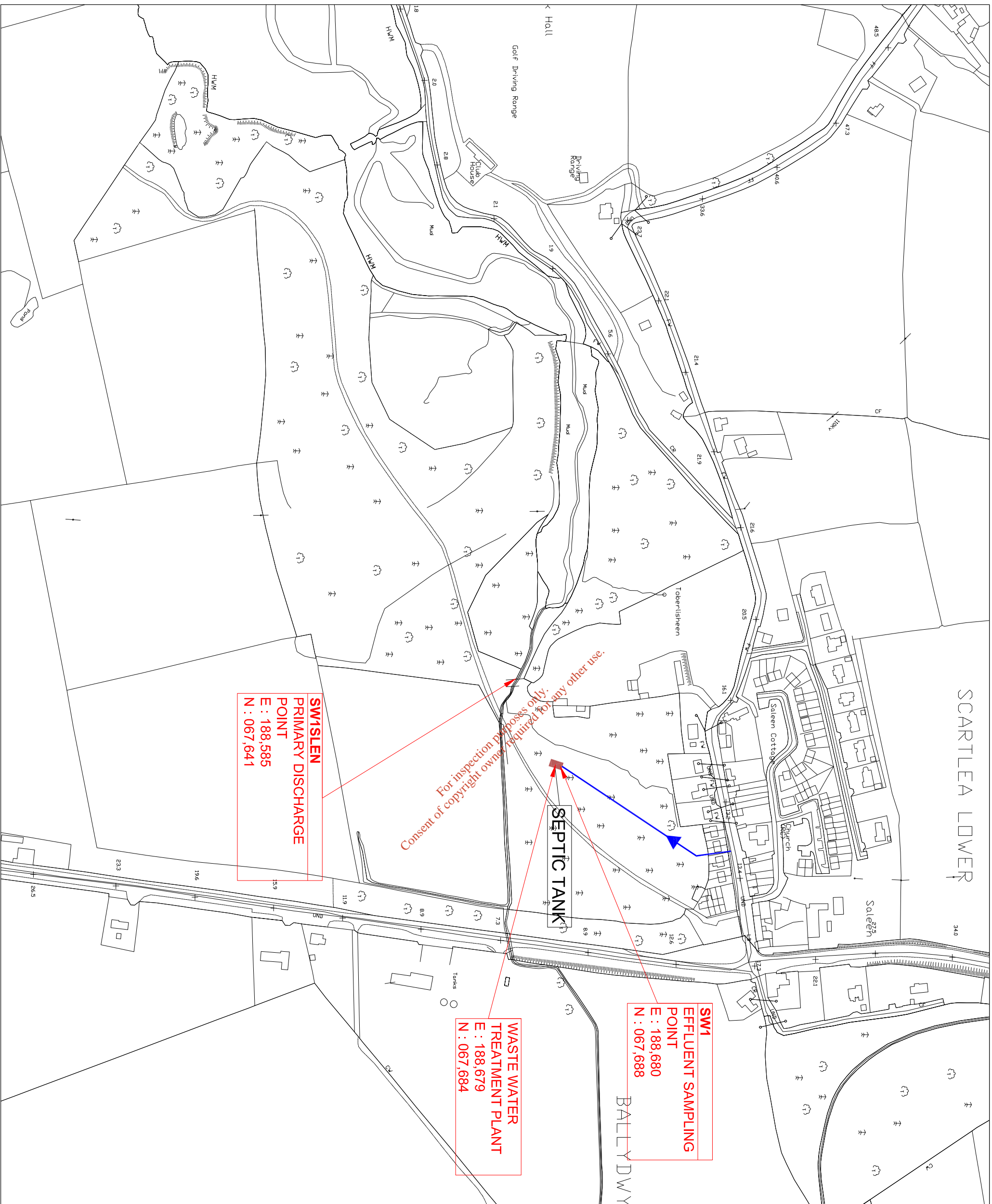
Patricia Power,  
Director of Services  
Area Operations South

**Project:** SALEEN WWTW  
WASTE WATER  
DISCHARGE LICENCE APPLICATION

**Title:** Application Form  
Attachment B2, Maps  
Location of Upstream & Downstream Monitoring Points

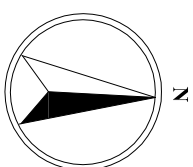
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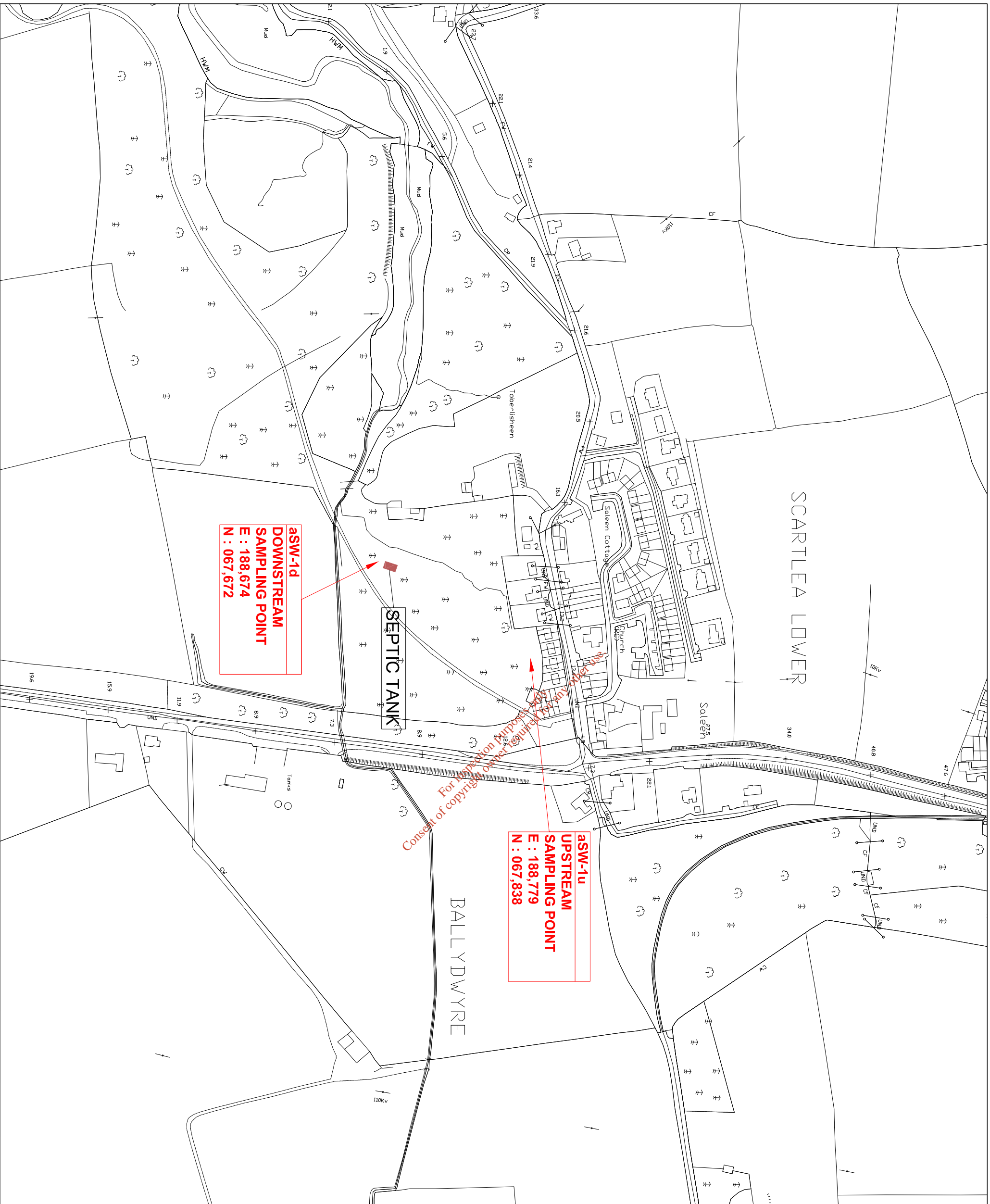
**CORK COUNTY COUNCIL**  
SOUTHERN DIVISION  
Noel O'Keefe, B.E. C.Eng. Furling F.I.E.M.I.C.E.  
County Engineer,  
County Hall, Cork.  
Patricia Power,  
Director of Services,  
Area Operations South.

Project: SALEEN WWTP  
WASTE WATER  
DISCHARGE LICENCE APPLICATION

Title: Application Form  
Attachment B3\_Map6  
Location of Primary Discharge Point

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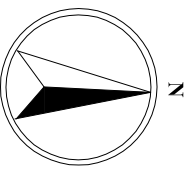
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**CORK COUNTY COUNCIL**  
SOUTHERN DIVISION

Niall O'Keefe, B.E. C.Eng. **Planning & Planning**  
County Planning Officer  
County Hall, Cork.

Patricia Power,  
District Planning Officer  
Area Operations South

**Project:** SALEEN WWTP  
WASTE WATER  
DISCHARGE LICENCE APPLICATION

**Title:** Application Form  
Attachment B3 Map7  
Location of Upstream & Downstream Monitoring Points

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# Cork County

## Water Services Investment Programme 2007 - 2009

Schemes at Construction	W/S	Est. Cost	Schemes to start 2009 contd.	W/S	Est. Cost
<b>Cork North</b>			<b>Cork South</b>		
Mitchelstown Sewerage Scheme (Nutrient Removal)	S	221,000	Ballincollig Sewerage Scheme (Upgrade) (G)	S	22,248,000
<b>Cork South</b>			Cork Lower Harbour Sewerage Scheme (excl. Crosshaven SS)	S	73,542,000
Ballyvourney/ Ballymakeery Sewerage Scheme	S	3,049,000	Shannagarry/ Garryvoe/ Ballycotton Sewerage Scheme	S	3,780,000
Cobh/ Midleton/ Carrigtwohill Water Supply Scheme	W	10,135,000	Youghal Sewerage Scheme	S	14,420,000
Cork Lower Harbour Sewerage Scheme (Crosshaven SS) (G)	S	4,850,000	<b>Cork West</b>		
Cork Water Strategy Study (G)	W	941,000	Ballydehob Sewerage Scheme	S	683,000
Kinsale Sewerage Scheme	S	20,000,000	Bantry Water Supply Scheme	W	14,935,000
Midleton Sewerage Scheme (Infiltration Reduction) (G)	S	2,078,000	Clonakilty Sewerage Scheme (Plant Capacity Increase)	S	3,677,000
		<b>41,274,000</b>	Courtmacsherry/ Timoleague Sewerage Scheme	S	2,472,000
<b>Schemes to start 2007</b>			Dunmanway Regional Water Supply Scheme Stage 1	W	12,669,000
					<b>164,629,000</b>
<b>Cork North</b>			<b>Serviced Land Initiative</b>		
North Cork Grouped DBO Wastewater Treatment Plant (Buttevant, Doneraile & Kilbrin)	S	5,150,000	<b>Cork North</b>		
<b>Cork West</b>			Ballycough Water Supply Scheme	W	139,000
Skibbereen Sewerage Scheme	S	20,000,000	Ballyhooley Improvement Scheme	W/S	139,000
		<b>25,150,000</b>	Broghill-Rathgoggin Sewerage Scheme	S	406,000
<b>Schemes to start 2008</b>			Bweeng Water Supply Scheme	W	115,000
<b>Cork North</b>			Churchtown Sewerage Scheme (incl. Water)	W/S	543,000
Mallow/ Ballyvinter Regional Water Supply Scheme (H) W		8,662,000	Clondulane Sewage Treatment Plant	S	417,000
Mallow Sewerage Scheme (H)	S	3,408,000	Freemount Sewerage Scheme	S	150,000
<b>Cork South</b>			Pike Road Sewerage Scheme (incl. Water)	W/S	2,080,000
Ballincollig Sewerage Scheme (Nutrient Removal) (G)	S	948,000	Rathcormac Sewerage Scheme (incl. Water)	W/S	555,000
Ballingeary Sewerage Scheme	S	1,296,000	Spa Glen Sewerage Scheme	S	736,000
Bandon Sewerage Scheme Stage 2	S	14,729,000	Uplands Fermoy Sewerage Scheme (incl. Water)	W/S	1,174,000
City Environs (CASP) Strategic Study (G)	S	153,000	Watergrasshill Water Supply Scheme (incl. Sewerage) (G)	W/S	4,151,000
Cloghroe Sewerage Scheme (Upgrade)	S	683,000	<b>Cork South</b>		
Coachford Water Supply Scheme	W	1,318,000	Ballincollig Sewerage Scheme (Barry's Rd Foul and Storm Drainage) (G)	S	1,164,000
Garretstown Sewerage Scheme	S	2,153,000	Belgooley, Water Supply Scheme (incl. Sewerage)	W/S	2,913,000
Inniscarra Water Treatment Plant Extension Phase 1	W	2,678,000	Blamey Water Supply Scheme (Ext. to Station Rd) (G)	W	416,000
Little Island Sewerage Scheme (G)	S	2,200,000	Carrigtwohill Sewerage Scheme (Treatment and Storm Drain) (G)	S	7,632,000
<b>Cork West</b>			Castlematyr Wastewater Treatment Plant Extension	S	1,200,000
Bantry Sewerage Scheme	S	7,148,000	Crookstown Sewerage Scheme (incl. Water)	W/S	1,200,000
Dunmanway Sewerage Scheme	S	2,153,000	Dripsey Water Supply Scheme (incl. Sewerage)	W/S	1,112,000
Leap/ Baltimore Water Supply Scheme	W	6,365,000	Glounthane Sewerage Scheme (G)	S	1,576,000
Schull Water Supply Scheme	W	5,253,000	Innishannon Sewerage Scheme	S	277,000
		<b>61,137,000</b>	Innishannon Wastewater Treatment Plant	S	694,000
<b>Schemes to start 2009</b>			Kerrypike Sewerage Scheme	S	832,000
<b>Cork North</b>			Kerrypike Water Supply Scheme	W	416,000
Banteer/Dromahane Regional Water Supply Scheme	W	1,576,000	Killeagh Wastewater Treatment Plant Extension	S	1,200,000
Conna Regional Water Supply Scheme Extension	W	2,627,000	Killeagh Water Supply Scheme (includes Sewerage)	W/S	485,000
Cork NE Water Supply Scheme	W	4,326,000	Killeens Sewerage Scheme	S	420,000
Cork NW Regional Water Supply Scheme	W	6,046,000	Kinagleary Sewerage Scheme	S	694,000
Millstreet Wastewater Treatment Plant (Upgrade)	S	1,628,000	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
<b>Cork South contd.</b>			<b>Cork South</b>		
Mogeely, Castlemartyr & Ladysbridge Water Supply Scheme	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, Ballincollig & Chetwind) (G)	W	8,500,000
Rochestown Water Supply Scheme	W	2,700,000	Inniscarra Water Treatment Plant (Sludge Treatment)(G)W		5,356,000
Saleen Sewerage Scheme	S	1,051,000	Macroom Sewerage Scheme	S	5,150,000
Youghal Water Supply Scheme	W	2,300,000	Minane Bridge Water Supply Scheme	W	1,421,000
<b>Cork West</b>			<b>Cork West</b>		
Castletownshend Sewerage Scheme	S	1,576,000	Bantry Regional Water Supply Scheme (Distribution)	W	9,455,000
		<b>50,797,000</b>	Cape Clear Water Supply Scheme	W	1,679,000
<b>Rural Towns &amp; Villages Initiative</b>			<b>Rural Towns &amp; Villages Initiative</b>		
<b>Cork North</b>			<b>Cork North</b>		
Buttevant Sewerage Scheme (Collection System)	S	2,446,000	Castletownbere Regional Water Supply Scheme	W	8,405,000
Doneraile Sewerage Scheme (Collection System)	S	1,738,000	Glengarriff Sewerage Scheme	S	2,500,000
			Roscarberry/Owenahincha Sewerage Scheme	S	1,576,000
			Skibbereen Regional Water Supply Scheme Stage 4	W	7,880,000
					<b>95,646,000</b>
<b>Cork South</b>			<b>Water Conservation Allocation</b>		
Innishannon (Ballinadee/ Ballinspittle/ Garrettstown) Water Supply Scheme	W	6,726,000	Asset Management Study		<b>300,000</b>
<b>Cork West</b>			<b>South Western River Basin District (WFD) Project<sup>1</sup></b>		
Ballylicky Sewerage Scheme	S	2,158,000			<b>9,400,000</b>
Baltimore Sewerage Scheme	S	3,162,000			
Castletownbere Sewerage Scheme	S	3,202,000			
Schull Sewerage Scheme	S	3,523,000			
		<b>24,950,000</b>	<b>Programme Total</b>		<b>485,489,000</b>
<b>Schemes to Advance through Planning</b>					
<b>Cork North</b>					
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>1</sup> This project is being led by Cork County Council on behalf of other authorities in the River Basin District

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

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



## 8. SALEEN

### 8.1 Existing Situation

The existing foul collection system drains to a septic tank, located approximately 200m to the south of the village, as shown in Figure 8 (Appendix 7). The tank was put in place originally to serve just 12 houses (40 PE) and is therefore totally inadequate for the present loading (c. 400 PE). Effluent from the tank discharges to the "Saleen Stream", just upstream of its confluence with the "Cloyne River".

Saleen is not included as an identifiable entity in the national census but based on an estimated current population figure of 351 adopted in the 2006 Report, and the general growth trends and projections applied at the other centres, a design PE of 900 for the year 2028 has been recommended.

### 8.2 Assessment of Previous Reports

A Preliminary Report for the upgrading of the Sewerage Scheme in Saleen was drawn up by RPS in early 2006 (dated April 2006). The report proposed an extensive upgrading and extension of the existing foul and storm water collection systems to serve current and future developments. The report also proposed the replacement of the septic tank with a treatment plant to be sited on Coillte lands, c.200 metres further to the south east.

The proposal was for a conventional extended aeration plant, incorporating denitrification and phosphate removal - the plant to be constructed for a PE of 1,000 but allowing for future expansion to 1,500 PE. The effluent would be treated to the standards identified in Appendix 5, and discharged to an outfall on the nearby Cloyne Stream, just upstream of the HWM.

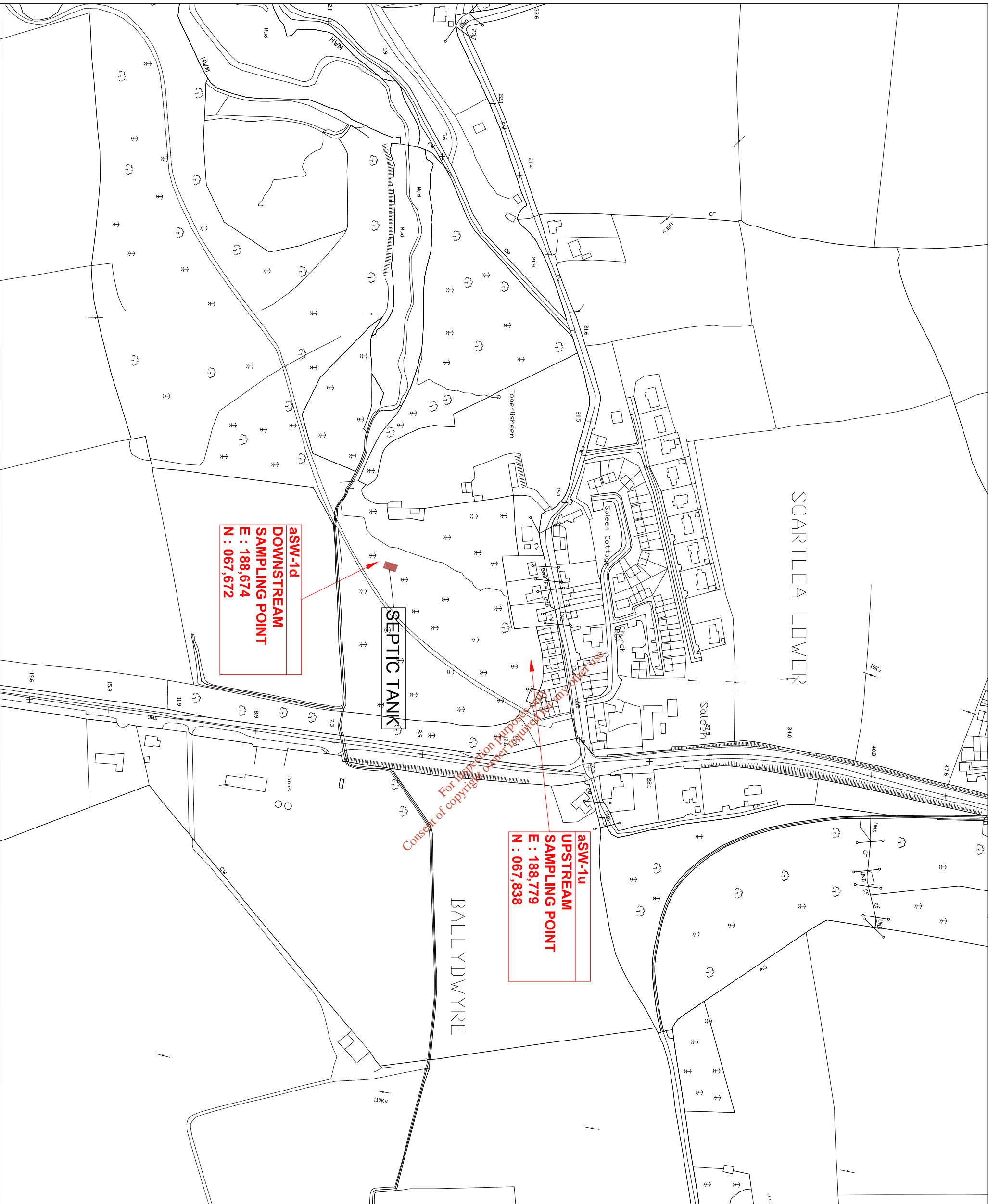
The proposal to discharge to the Cloyne was based on preliminary estimates of low flows and water quality in the river/stream, and on an assessment of the hydrodynamic and dispersion regimes in the Saleen Creek area, into which the river flows. Flow monitoring of the river was carried out subsequently (Dixon Brosnan, December 2006). This monitoring, subject to the proviso of limited available data, tended to confirm the relatively high dry weather and 95%ile unit area flows ascribed to the catchment but also indicated a strong tidal influence at the proposed discharge point, particularly during higher and spring tides. Sampling upstream of the existing tank outfall indicated consistently high Nitrate (average 7.6 mg/l N) and Orthophosphate levels (average 0.2 mg/l P) over the period July 2005 – November 2006.

The results of this flow and quality monitoring, carried out subsequent to the issue of the Preliminary Report, warrants a reappraisal of the proposed discharge location. The proposed shellfish designation of an area at the mouth of Saleen Creek and another immediately to the south also calls for a reappraisal.

A review of the dispersion studies carried out in 2005 (Irish Hydrodata Limited, September 2005), allied to the subsequent flow monitoring of the influent Cloyne River, indicates flow conditions in Saleen Creek and along the northern shore at the mouth of the creek to be relatively stagnant, as indicated by both the drogue and dye surveys. The survey indicated a mean velocity in the creek of c. 470 m/hr.

This means that the travel time from the proposed outfall point to the mouth of the creek (1.5 km) is at least 3 hours and that there is very little flushing action in the creek. The surveys also show that on the falling tide, the out-flowing current from the creek tends to adhere to the northern shore and enter the Ballynacorra River, and then, possibly, with a change of the tide, return along the same route. An alternative discharge point, within BATNEEC parameters, is therefore seen as desirable.

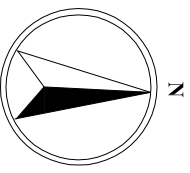




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**CORK COUNTY COUNCIL**  
 SOUTHERN DIVISION  
Niall O'Keefe, B.E. C.Eng. Planning F.I.E.M.I.R.C.E.  
 County Engineer  
 County Hall, Cork.      Patrick Power,  
 Director of Services  
 Area Operations South

Project: SALEEN WWTW  
 WASTE WATER  
 DISCHARGE LICENCE APPLICATION  
 Title: Application Form  
 Attachment E2\_Map8  
 Location of Upstream & Downstream Monitoring Points

Rev.	Date	By	Description

Designed: MS	Checked: MS	Scale: 1:4,000 @ A3	Drawing No: E2_Map8
Drawn: MM	Approved: MS	Date: Nov '09	Scale: —
File Path:			Rev: 0

# Accreditation Certificate

## Cork County Council

Wastewater Testing Laboratory, Inniscarra, Co. Cork

Testing Laboratory

Registration number: 016T

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

---

Date of award of accreditation: 01:10:2002

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

Expiry date of this certificate of accreditation: 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: Tom Dempsey Chairperson: Máire Walsh  
Mr Tom Dempsey Dr Máire Walsh

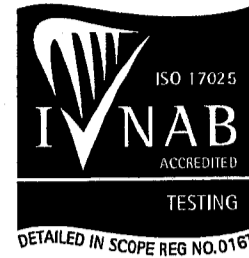
Issued on 23 June 2008

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.



# Schedule of Accreditation



(Annex to Accreditation Certificate)

Permanent Laboratory:  
Category A

## CORK COUNTY COUNCIL

### Chemistry Testing Laboratory

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

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# Schedule of Accreditation



Permanent Laboratory:  
Category A

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

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

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

## Testing and Calibration Categories:

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

## Standard Specification or Test Procedure Used:

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

## Glossary of Terms

### Facilities:

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

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

# Scope of Accreditation



**Cork County Council  
Chemical Testing Laboratory**

Permanent Laboratory:  
Category A

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



# Scope of Accreditation



Cork County Council  
Chemical Testing Laboratory

Permanent Laboratory:  
Category A

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

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# Scope of Accreditation



**Cork County Council  
Chemical Testing Laboratory**

Permanent Laboratory:  
Category A

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

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



# Scope of Accreditation



**Cork County Council  
Chemical Testing Laboratory**

Permanent Laboratory:  
Category A

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
<b>766 Waters</b>	<b>Chemical analysis</b>	Documented in-house methods based on Standard Methods for the Examination of Water & Wastewater 21 <sup>st</sup> Edition APHA (See Note 1)
<b>.05 Trade Wastes</b> <i>Industrial effluents</i> <i>Urban Wastewater</i> <i>Municipal Wastewater</i>	Orthophosphate as P (Konelab) Range: 0.005 - 1.00 mg O-PO <sub>4</sub> P/L High Range: 1000 mg O-PO <sub>4</sub> P/L Method Detection Limit: 0.02 mg O-PO <sub>4</sub> P/L  Chloride (Konelab) Range: 25-250 mg/L Cl <sup>-</sup> High Range Conc.: 86,600 mg /L Cl <sup>-</sup> Method Detection Limit: 25mg /L Cl <sup>-</sup>  Sulphate (Konelab) Range: 30-250 mg/L SO <sub>4</sub> /L High Range Conc.: 35,000 mg/L SO <sub>4</sub> /L Method Detection Limit: 30 mg SO <sub>4</sub> /L	CP No. 1 Membrane electrode  CP No. 23 Ascorbic Acid Method  CP No. 24 Ferricyanide Method  CP No. 25 Documented in-house method by Konelab based on method for the examination of waters and waste waters and associated material HMSO: 1981

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

## Attachment E4 Saleen Table E4

Sample Date	06/10/2009		06/10/2009
Sample	Saleen Septic Tank		Saleen 100m downstream in stream
Sample Code	GT1214		GT1215
Flow M <sup>3</sup> /Day	No result		No result
pH	7.4		7.3
Temperature °C	No result		No result
Conductivity uS/cm 20 °C	399		534
Suspended Solids mg/L	28		11
Ammonia-N mg/L	4.9		1.2
BOD mg/L	13		5
COD mg/L	25		<21
TN-N mg/L	12.99		8.65
Nitrite-N mg/L	0.145		0.115
Nitrate-N mg/L	8.185		6.615
TP-P mg/L	0.61		0.403
O-PO4-P mg/L	0.46		0.34
SO4 mg/L	<30		<30
Phenols µg/L	<0.10		No result
Atrazine µg/L	<0.01		No result
Dichloromethane µg/L	<1		No result
Simazine µg/L	<0.01		No result
Toluene µg/L	<0.28		No result
Tributyltin µg/L	not required		not required
Xylenes µg/L	<0.73		No result
Arsenic µg/L	<0.96		No result
Chromium ug/L	<20		<20
Copper ug/L	<20		<20
Cyanide µg/L	<5		No result
Fluoride µg/L	0.094		No result
Lead ug/L	<20		<20
Nickel ug/L	<20		<20
Zinc ug/L	<20		<20
Boron ug/L	<20		<20
Cadmium ug/L	<20		<20
Mercury µg/L	<0.03		No result
Selenium µg/L	1.2		No result
Barium ug/L	<20		<20

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## SITE SYNOPSIS

**SITE NAME: CORK HARBOUR SPA**

**SITE CODE: 004030**

Cork Harbour is a large, sheltered bay system, with several river estuaries - principally those of the Rivers Lee, Douglas and Owenacurra. The SPA site comprises most of the main intertidal areas of Cork Harbour, including all of the North Channel, the Douglas Estuary, inner Lough Mahon, Lough Beg, Whitegate Bay and the Rostellan inlet.

Owing to the sheltered conditions, the intertidal flats are often muddy in character. These muds support a range of macro-invertebrates, notably *Macoma balthica*, *Scrobicularia plana*, *Hydrobia ulvae*, *Nephtys hombergi*, *Nereis diversicolor* and *Corophium volutator*. Green algae species occur on the flats, especially *Ulva lactuca* and *Enteromorpha* spp. Cordgrass (*Spartina* spp.) has colonised the intertidal flats in places, especially where good shelter exists, such as at Rossleague and Belvelly in the North Channel. Salt marshes are scattered through the site and these provide high tide roosts for the birds. Salt marsh species present include Sea Purslane (*Halimione portulacoides*), Sea Aster (*Aster tripolium*), Thrift (*Armeria maritima*), Common Saltmarsh-grass (*Puccinellia maritima*), Sea Plantain (*Plantago maritima*), Lax-flowered Sea-lavender (*Limonium humile*) and Sea Arrowgrass (*Triglochin maritima*). Some shallow bay water is included in the site. Cork Harbour is adjacent to a major urban centre and a major industrial centre. Rostellan lake is a small brackish lake that is used by swans throughout the winter. The site also includes some marginal wet grassland areas used by feeding and roosting birds.

Cork Harbour is an internationally important wetland site, regularly supporting in excess of 20,000 wintering waterfowl, for which it is amongst the top five sites in the country. The five-year average annual core count for the entire harbour complex was 34,661 for the period 1996/97-2000/01. Of particular note is that the site supports an internationally important population of Redshank (1,614) - all figures given are average winter means for the 5 winters 1995/96-1999/00. A further 15 species have populations of national importance, as follows: Great Crested Grebe (218), Cormorant (620), Shelduck (1,426), Wigeon (1,750), Gadwall (15), Teal (807), Pintail (84), Shoveler (135), Red-breasted Merganser (90), Oystercatcher (791), Lapwing (3,614), Dunlin (4,936), Black-tailed Godwit (412), Curlew (1,345) and Greenshank (36). The Shelduck population is the largest in the country (9.6% of national total), while those of Shoveler (4.5% of total) and Pintail (4.2% of total) are also very substantial. The site has regionally or locally important populations of a range of other species, including Whooper Swan (10), Pochard (145), Golden Plover (805), Grey Plover (66) and Turnstone (99). Other species using the site include Bat-tailed Godwit (45), Mallard (456), Tufted Duck (97), Goldeneye (15), Coot (77), Mute Swan (39), Ringed Plover (51), Knot (31), Little Grebe (68) and Grey Heron (47). Cork Harbour is an important

site for gulls in winter and autumn, especially Common Gull (2,630) and Lesser Black-backed Gull (261); Black-headed Gull (948) also occurs.

A range of passage waders occur regularly in autumn, including Ruff (5-10), Spotted Redshank (1-5) and Green Sandpiper (1-5). Numbers vary between years and usually a few of each of these species over-winter.

The wintering birds in Cork Harbour have been monitored since the 1970s and are counted annually as part of the I-WeBS scheme.

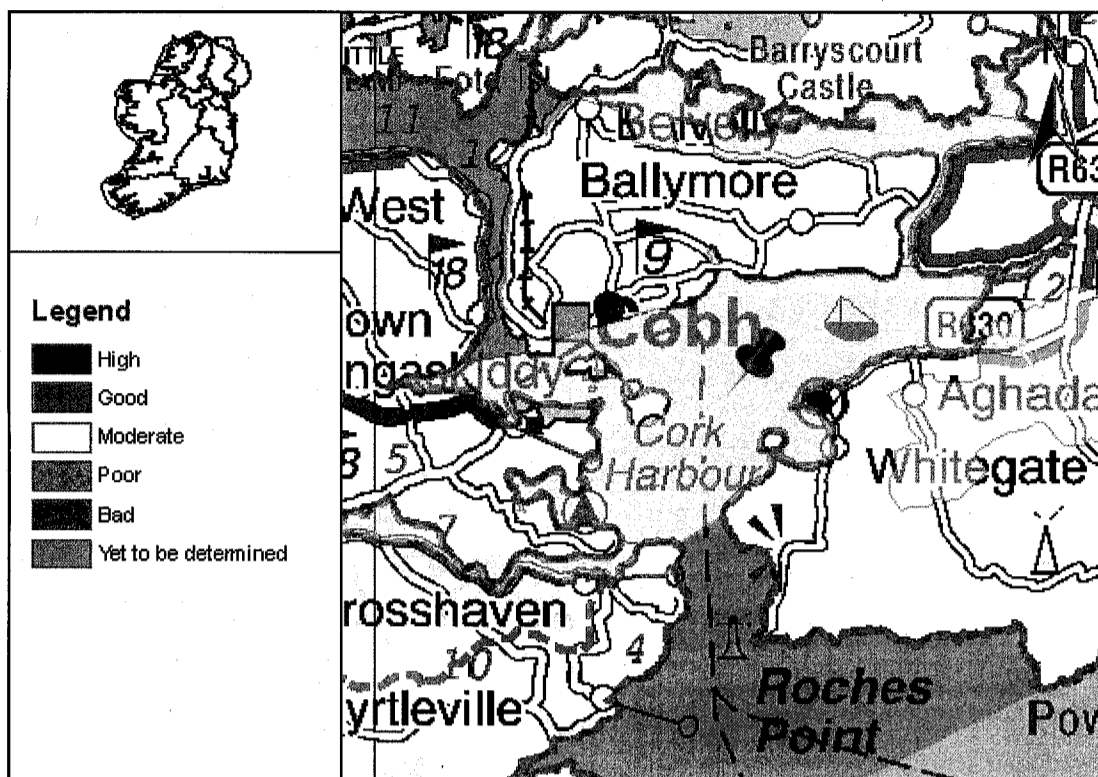
Cork Harbour has a nationally important breeding colony of Common Tern (3-year mean of 69 pairs for the period 1998-2000, with a maximum of 102 pairs in 1995). The birds have nested in Cork Harbour since about 1970, and since 1983 on various artificial structures, notably derelict steel barges and the roof of a Martello Tower. The birds are monitored annually and the chicks are ringed.

Extensive areas of estuarine habitat have been reclaimed since about the 1950s for industrial, port-related and road projects, and further reclamation remains a threat. As Cork Harbour is adjacent to a major urban centre and a major industrial centre, water quality is variable, with the estuary of the River Lee and parts of the Inner Harbour being somewhat eutrophic. However, the polluted conditions may not be having significant impacts on the bird populations. Oil pollution from shipping in Cork Harbour is a general threat. Recreational activities are high in some areas of the harbour, including jet skiing which causes disturbance to roosting birds.

Cork Harbour has is of major ornithological significance, being of international importance both for the total numbers of wintering birds (i.e. > 20,000) and also for its population of Redshank. In addition, there are at least 15 wintering species that have populations of national importance, as well as a nationally important breeding colony of Common Tern. Several of the species which occur regularly are listed on Annex I of the E.U. Birds Directive, i.e. Whooper Swan, Golden Plover, Bar-tailed Godwit, Ruff and Common Tern. The site provides both feeding and roosting sites for the various bird species that use it.

4.7.2004

**Full Report for Waterbody Cork Harbour**



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Date Reported to Europe: 22/12/2008

Date Report Created 02/06/2009

## water matters

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### Summary Information:

**WaterBody Category:** Coastal Waterbody

**WaterBody Name:** Cork Harbour

**WaterBody Code:** IE\_SW\_060\_0000

**Overall Status:** Moderate

**Overall Objective:** [REDACTED]

**Overall Risk:** 1a At Risk

**Applicable Supplementary Measures:** Urban & Industrial;

Report data based upon Draft RBMP, 22/12/2008.

south  
western  
river basin district



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**Status Report**

**WaterBody Category:** Coastal Waterbody  
**WaterBody Name:** Cork Harbour  
**WaterBody Code:** IE\_SW\_060\_0000  
**Overall Status Result:** Moderate



	<b>Status Element Description</b>	<b>Result</b>
EX	Status from Monitored or Extrapolated Waterbody	True
	<b>General Conditions</b>	
DIN	Dissolved Inorganic Nitrogen	Moderate
MRP	Molybdate Reactive Phosphorus	Good
DO	Dissolved Oxygen as percent saturation	Good
BOD	Biochemical Oxygen Demand	
T	Temperature	Pass
	<b>Biological Elements</b>	
PB	Phytoplankton - Phytoplankton	Good
PBC	Phytoplankton - PhytoBiomass (Chlorophyll)	Good
MA	Macroalgae	
RSL	Reduced Species List	Good
SG	Angiosperms - Seagrass and Saltmarsh	
BE	Benthic Invertebrates	
FI	Fish	
	<b>HydroMorphology</b>	
HY	Hydrology	
MO	Morphology	Good (pHMWB)
	<b>Specific Pollutants</b>	
SP	Specific Relevant Pollutants (Annex VII)	Pass
	<b>Conservation Status</b>	
CN	Conservation Status (Expert Judgement)	Moderate
	<b>Protected Area Status</b>	
PA	Overall Protected Area Status	Less than good

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<b>Heavily Modified Waterbodies</b>		
HY	HydroMorphology for Heavily Modified Waterbodies	Moderate
IS	Interim Status (physico-chemical, biological) for Heavily Modified Waterbodies	Moderate
EP	Overall Ecological Potential for Heavily Modified Waterbodies	Moderate
<b>Overall Status</b>		
ES	Ecological Status	Moderate
CS	Chemical Status	Fail
O	Overall Ecological Status	Moderate

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**Risk Report**

**WaterBody Category:** Coastal Waterbody  
**WaterBody Name:** Cork Harbour  
**WaterBody Code:** IE\_SW\_060\_0000  
**Overall Risk Result:** **1a** At Risk

**south  
western**  
river basin district



<b>Risk Test Description</b>	<b>Risk</b>
<b>Point Risk Sources</b>	
CP1 WWTPs (2008)	<b>1a</b> At Risk
CP2 CSOs	
CP3 IPPCs (2008)	<b>2b</b> Not At Risk
CP4 Section 4s (2008)	<b>2b</b> Not At Risk
CPO Overall Risk from Point Sources - Worst Case (2008)	
<b>Morphological Risk Sources</b>	
MOR Overall Morphological Risk - Worst Case	<b>1a</b> At Risk
<b>Marine Direct Impacts</b>	
MDI1 Dangerous Substances	<b>1a</b> At Risk
MDI2 OSPAR	x
MDI3 UWWT Regs Designations	x
MDI Marine Direct Impacts Overall - Worst Case	<b>1a</b> At Risk
O	
<b>Overall Risk</b>	
CP Worst case of Point and Marine Direct Impacts Overall (2008)	<b>1a</b> At Risk
RA Coastal Risk Overall - Worst case (2008)	<b>1a</b> At Risk

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# water matters

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## Objectives Report

**WaterBody Category:** Coastal Waterbody  
**WaterBody Name:** Cork Harbour  
**WaterBody Code:** IE\_SW\_060\_0000  
**Overall Objective:** [REDACTED]

south  
western  
river basin district



Objectives Description		Result
<b>Objectives</b>		
OB1	Objective 1 - Protected Areas	[REDACTED]
OB2	Objective 2 - Protect High and Good Status	Not Applicable
OB3	Objective 3 - Restore Less Than Good Status	Not Applicable
OB4	Objective 4 - Reduce Chemical Pollution	[REDACTED]
OBO	Overall Objective	[REDACTED]
<b>Deadline</b>		
YR	Default Year by which the objective must be met	2015
OBO	Overall Objective and Deadline	[REDACTED]

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# water matters

"help us plan!"

## Basic Measures Report

**WaterBody Category:** Coastal Waterbody

**WaterBody Name:** Cork Harbour

**WaterBody Code:** IE\_SW\_060\_0000

south  
western  
river basin district



Basic Measures Description		Applicable
<b>Key Directives</b>		
BA	Bathing Waters Directive	No
BI	Birds Directive	Yes
HA	Habitats Directive	No
DW	Drinking Waters Directive	No
SEV	Major Accidents and Emergencies (Seveso) Directive	Yes
EIA	Environmental Impact Assessment Directive	Yes
SE	Sewage Sludge Directive	Yes
UW	Urban Waste Water Treatment Directive	No
PL	Plant Protection Products Directive	Yes
NI	Nitrates Directive	Yes
IP	Integrated Pollution Prevention Control Directive	Yes
<b>Other Stipulated Measures</b>		
CR	Cost recovery for water use	Yes
SU	Promotion of efficient and sustainable water use	No
DWS	Protection of drinking water sources	No
AB	Control of abstraction and impoundments	No
PT	Control of point source discharges	Yes
DI	Control of diffuse source discharges	Yes
GWD	Authorisation of discharges to groundwater	No
PS	Control of priority substances	Yes
MOR	Control of physical modifications to surface waters	Yes
OA	Controls on other activities impacting on water status	Yes
AP	Prevention or reduction of the impact of accidental pollution incidents	Yes

Date Reported to Europe: 22/12/2008

Date Report Created 02/06/2009

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**Urban and Industrial Discharges Supplementary Measures Report**

**WaterBody Category:** Coastal Waterbody  
**WaterBody Name:** Cork Harbour  
**WaterBody Code:** IE\_SW\_060\_0000



	<b>Point discharges to waters from municipal and industrial sources</b>	<b>Result</b>
PINDDIS	Is there one or more industrial discharge (Section 4 licence issued by the local authority or IPPC licence issued by the EPA) contained within the water body?	Yes
PINDDISR	Are there industrial discharges (Section 4 licence issued by the local authority or IPPC licence issued by the EPA) that cause the receiving water to be 'At Risk' within the water body?	No
PB1	Basic Measure 1 - Measures for improved management.	Yes
PB2	Basic Measure 2 - Optimise the performance of the waste water treatment plant by the implementation of a performance management system.	No
PB3	Basic Measure 3 - Revise existing Section 4 license conditions and reduce allowable pollution load.	No
PB4	Basic Measure 4 - Review existing IPPC license conditions and reduce allowable pollution load.	No
PB5	Basic Measure 5 - Investigate contributions to the collection system from unlicensed discharges.	Yes
PB6	Basic Measure 6 - Investigate contributions to the collection system of specific substances known to impact ecological status.	Yes
PB7	Basic Measure 7 - Upgrade WWTP to increase capacity.	Yes
PB8	Basic Measure 8 - Upgrade WWTP to provide nutrient removal treatment.	No
PS1	Supplementary Measure 1 - Measures intended to reduce loading to the treatment plant.	Yes
PS2	Supplementary Measure 2 - Impose development controls where there is, or is likely to be in the future, insufficient capacity at treatment plants.	Yes
PS3	Supplementary Measure 3 - Initiate investigations into characteristics of treated wastewater for parameters not presently required to be monitored under the urban wastewater treatment directive.	No
PS4	Supplementary Measure 4 - Initiate research to verify risk assessment results and determine the impact of the discharge.	No
PS5	Supplementary Measure 5 - Use decision making tools in point source discharge management.	No
PS6	Supplementary Measure 6 - Install secondary treatment at plants where this level of treatment is not required under the urban wastewater treatment directive.	No
PS7	Supplementary Measure 7 - Apply a higher standard of treatment (stricter emission controls) where necessary.	No

Date Reported to Europe: 22/12/2008

Date Report Created 02/06/2009

## water matters

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PS8	Supplementary Measure 8 - Upgrade the plant to remove specific substances known to impact on water quality status.	No
PS9	Supplementary Measure 9 - Install ultra-violet or similar type treatment.	No
PS10	Supplementary Measure 10 - Relocate the point of discharge.	No

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Date Report Created 02/06/2009