

This is a draft document and is subject to revision.



Waste Water Discharge Licence Application Form

EPA Ref. N^o:

(Office use only)

Environmental Protection Agency
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CORK COUNTY COUNCIL

WESTERN DIVISION

WATER SERVICES

Courthouse, Skibbereen, Co. Cork

**Re: Waste Water Discharge Licence Application for the Agglomeration of
Glengarriff**

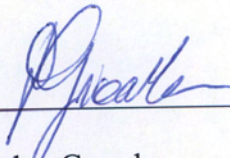
Dear Sir/Madam,

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

The following documentation is enclosed:

- 1 Nr. Signed original in hardcopy
- 1 Nr. Copy in hardcopy
- 2 Nr. CD-ROM with all documentation in electronic searchable PDF (OCR'd format)
- 1 Nr. CD-ROM with GIS Data, Tabular Data

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



Declan Groarke
Senior Executive Engineer

Tracking Amendments to Draft Application Form

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

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

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

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ABOUT THIS APPLICATION FORM

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

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

A valid application for a Waste Water Discharge Licence must contain the information prescribed in the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I. No. 684 of 2007). Regulation 16 of the Regulations sets out the statutory requirements for information to accompany a licence application. The application form is designed in such a way as to set out these questions in a structured manner and not necessarily in the order presented in the Regulations. In order to ensure a legally valid application in respect of Regulation 16 requirements, please complete the Regulation 16 Checklist provided in Annex 2.

This Application Form does not purport to be and should not be considered a legal interpretation of the provisions and requirements of the Waste Water Discharge (Authorisation) Regulations, 2007. While every effort has been made to ensure the accuracy of the material contained in the Application Form, the EPA assumes no responsibility and 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 licences, and for the processing of reviews of such licences, appear in the Waste Water Discharge (Authorisation) Regulations, 2007 (S.I. No. 684 of 2007) and is summarised below. The application fees that shall accompany an application are listed in the Third Schedule to the Regulations.

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

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

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

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

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

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

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

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

Note: 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 the hours during which the waste water works is supervised or manned and days per week of this supervision.

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

A description of:

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

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

Non-Technical Summary

Glengarriff is located on the N71 National route joining Kenmare and Bantry. This settlement is principally a location for tourist related development and is a small centre for the rural hinterland. The relative accessibility (compared to the peninsulas), scenic but gentle landscape, and position on the national route all contribute to its popularity as a location for holiday, second and retirement homes.

Wastewater Works and the Activities Carried out Therein

There is an extensive collection system within the village and it follows the main route through the village, taking in the majority of the developments starting at the Mountain View Development west to the Castletownbere road. It also takes in Dalewood Cottages development on the Kenmare Road and the housing development north of the Eccles Hotel. The existing sewerage scheme consists of a collection system, septic tank and short outfall to Glengarriff Harbour. There are 2 no pumping stations under the control of Cork County Council within the scheme. The first is adjacent to the Glengarriff Bridge beside the Castletownbere Road. This collects effluent from the western portion of the village, including the effluent pumped from a privately operated pumping station in the Dalewood Cottages development, and pumps east to septic tank. The second one is located at the tidal pond close to Eccles Hotel. This collects effluent from the eastern portion of the village and pumps west to the septic tank.

The septic tank provides primary treatment of the collected waste water, prior to discharge to the harbour.

A preliminary report is being carried out at present by Tobin Consulting Engineers, Cork. This includes a proposal for a new wastewater treatment plant adjacent to the existing septic tank with a design PE of 2500 for the horizon year of 2029. It also includes upgrading and extending the existing sewer network, upgrading of the existing pumping stations and construction of a new outfall pipe from the plant. This report is expected to be completed later in the year.

Sources of Emissions from the Wastewater works

The main sources of wastewater are from domestic properties within the catchment area. The town would have a number of commercial properties but all would be considered domestic in terms of effluent discharge. The current population of Glengarriff agglomeration being served by the sewerage scheme is estimated as 750pe. This is based on a count of the number of properties within the agglomeration boundary.

The volume of the existing septic tank is approximately 182m³ yielding a capability to cater for a population equivalent of 1000.

The septic tank provides primary settlement only, which according to the National Urban Waste Water Study (NUWWS) reduces the BOD load by approximately 30% and the Suspended Solids load by approximately 50%.

Nature and Quantities of Foreseeable Emissions from the Wastewater Works into the receiving Aqueous on the Environment

Glengarriff is mainly a tourist area and it is likely that any of the effluent produced in the village in the future will only be of the domestic type from hotels, public houses, B&B's etc. Any of the zoned land within the development boundary is for domestic dwellings or tourist type development. The pe for the licence period is projected to be 990 which yields a hydraulic load for dry weather flow of 247.5 m³/d to the environment.

Proposed Technology and Other Techniques for preventing or where this is not possible reducing emissions from the Wastewater Works

The septic tank has a design pe of 1000pe. It is proposed that the plant would be upgraded to accommodate the projected increase in population in the future. In the short term the plant is being de-sludged on a regular basis to assist the efficient running of the plant as it currently stands. A preliminary report is being carried out at present by Tobin Consulting Engineers, Cork. This includes a proposal for a new wastewater treatment plant adjacent to the existing septic tank with a design PE of 2500. It also includes upgrading and extending the existing sewer network, upgrading of the existing pumping stations and construction of a new outfall pipe from the plant. This report is expected to be completed later in the year.

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

A Preliminary Report is currently being carried out and the complete process will likely be upgraded in the near future with the construction of a new WWTP. The

treatment capacity, the discharge quality and control systems will be improved to ensure that no significant pollution is caused.

Measures Planned to monitor emissions into the environment

The emissions from the existing septic tank can be monitored through the sampling point SW01 Glen (see Map Glen B3-01 for location).

In the proposed WWTP, monitoring and sampling of the emissions will be provided in inlet and outlet works. The sampling will consist of a composite sampler and all emissions will be measured and can be sampled before discharge.

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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: Glengarriff

Applicant's Details

Name and Address for Correspondence

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

Name*:	Cork County Council
Address:	Water Services (Western Division)
	Courthouse
	Skibbereen
	Co Cork
Tel:	028 21299
Fax:	028 21995
e-mail:	declan.groarke@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.

Name*:	Declan Groarke
Address:	Cork County Council
	Courthouse
	Skibbereen
	Co Cork
Tel:	028 21299
Fax:	028 21995
e-mail:	declan.groarke@corkcoco.ie

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

Co-Applicant's Details

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

*This should be the name of a water services authority, other than the lead authority, where multiple authorities are the subject of a waste water discharge (authorisation) licence application.

Design, Build & Operate Contractor Details

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

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

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

Attachment included	Yes	No
	√	

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

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

Name*:	Michael O'Driscoll
Address:	Area Engineers Office Foildarrig Castletownbere Co. Cork
Grid ref (6E, 6N)	093292E, 056304N
Level of Treatment	Primary
Primary Telephone:	027 70017
Fax:	027 70497
e-mail:	michael.odriscoll@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.

Attachment included	Yes	No
	√	

B.3 Location of Primary Discharge Point

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

Type of Discharge	9" Cast Iron Pipe encased in Concrete
Unique Point Code	SW01
Location	Monteensudder
Grid ref (6E, 6N)	093358E, 056263N

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

Attachment included	Yes	No
	√	

B.4 Location of Secondary Discharge Point(s)

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

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

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

Attachment included	Yes	No
		√

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

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

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

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

Attachment included	Yes	No
	√	

B.6 Planning Authority

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

Name:	Cork County Council
Address:	Norton House
	Skibbereen
	Co Cork
Tel:	028 40340
Fax:	028 21660
e-mail:	

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

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

Local Authority Planning File Reference N^o:	Not Applicable
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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
		√

B.7 Other Authorities

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

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

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

Within the SFADCo Area	Yes	No
		√

B.7 (ii) Health Services Executive Region

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

Name:	Health Service Executive
Address:	Hospital Grounds
	Skibbereen
	Co Cork
Tel:	028 40400
Fax:	028 21006
e-mail:	

B.7 (iii) Other Relevant Water Services Authorities

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

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

Relevant Authority Notified	Yes	No
		√

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

Attachment included	Yes	No
		√

B.8 Notices and Advertisements

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

Attachment B.8 should contain a copy of the site notice and an appropriately scaled drawing (≤A3) showing its location. **The original application must include the original page of the newspaper in which the advertisement was placed.** The relevant page of the newspaper containing the advertisement should be included with the original and one (1) copy of the application.

Attachment included	Yes	No
	√	

B.9 (i) Population Equivalent of Agglomeration

TABLE B.9.1 POPULATION EQUIVALENT OF AGGLOMERATION

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

Population Equivalent	750pe approx
Data Compiled (Year)	2009
Method	Property count

Taking the pending developments in B9(ii) below into consideration and also the fact that development will probably be restricted to lands that have been zoned within the development boundary, the predicted pe for 2015 would be approx 990.

B.9 (ii) Pending Development

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

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

A review of recent planning applications indicated that there are 5 dwelling houses, 2 apartments, 2 retail units and 13 hotel suites (approx pe of 55) which have been granted planning permission but have not yet been constructed. The wastewater associated with these developments would be considered domestic. The existing septic tank has a design pe of 1000, therefore the tank should be capably of treating the effluent from these proposed developments without having an adverse impact on the environment.

B.9 (iii) FEES

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

Class of waste water discharge	Fee (in €)
500-1000 pe	€10,000

Appropriate Fee Included	Yes	No
		√

B.10 Capital Investment Programme

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

Glengarriff has been included in the most recent list of the National Water Services Investment Programme 2007-2009.

The proposed time frame for the upgrade to the Glengarriff WWTP is as follows -

- Construction start date Mar 2012
- Complete June 2013

Attachment B.10 should contain the most recent development programme, including a copy of any approved funding for the project and a timeframe for the completion of the necessary works to take place.

Attachment included	Yes	No
		√

B.11 Significant Correspondence

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

Not Applicable

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

Attachment included	Yes	No
		√

B.12 Foreshore Act Licences.

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

Foreshore No. MS51/8/343 was issued for Glengarriff Sewerage Scheme on 22/07/1968 for the laying, maintaining and using a sewage outfall pipe. The licence agreement is attached.

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

Attachment included	Yes	No
	√	

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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.

Existing Collection System

There is a relatively extensive collection system on the village. It follows the main route through the village, taking in the majority of the developments starting at the Mountain View Development west to the Castletownbere road. It also takes in Dalewood Cottages development on the Kenmare Road and the housing development north of the Eccles Hotel. There are 2 no pumping stations under the control of Cork County Council within the scheme. The first is adjacent to the Glengarriff Bridge beside the Castletownbere Road. This collects effluent from the western portion of the village, including the effluent pumped from a privately operated pumping station in the Dalewood Cottages development, and pumps east to septic tank. The second one is located at the tidal pond close to Eccles Hotel. This collects effluent from the eastern portion of the village and pumps west to the septic tank.

Existing Treatment Plant

The wastewater from the village flows to the septic tank located south of the main road. The septic tank was installed in the 1960's with a 1000p.e. design capacity and a volume of 182m³.

In order to assess the design capacity (Design Population) of the septic tank the following calculation was used:

$$C = 180P + 2000$$

where C is the capacity of the tank (in litres) and P is the design population. Using this formula the septic tank can sufficiently cater for a population of 1000 persons.

It should be noted that this formula was obtained from BS6297 1983, this standard has been superseded in 2007 (BS6294 2007) however the new standard does not give any formulae for assessing the capacity of septic tanks. So for the basis of this application BS6297 1983 is used.

Existing Outfall

The plant discharges to the adjacent Glengarriff Harbour through a 9" diameter cast iron pipe encased in concrete. This pipe is located below low level water mark.

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.

There are no stormwater overflows associated with this sewage scheme.

C.1.2 Pumping Stations

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

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

There are 2 no pumping stations under the control of Cork County Council within the scheme. The first is adjacent to the Glengarriff Bridge beside the Castletownbere Road. This collects effluent from the western portion of the village, including the effluent pumped from a privately operated pumping station in the Dalewood Cottages development, and pumps east to septic tank. The second one is located at the tidal pond close to Eccles Hotel. This collects effluent from the eastern portion of the village and pumps west to the septic tank.

Details of Pumping Stations

Pumping Station	Approx. Location	Pumping Arrangement	Storage Capacity	Receiving Water	
				Body Name	Grid Ref.
P1	Glengarriff Bridge	Duty/Standby	Approx 19m ³	Glengarriff Harbour	092801E, 056276N
P2	Tidal Pond	Duty/Standby	Approx 12m ³	Glengarriff Harbour	093619E, 056544N

There are emergency overflows from both pumping stations. For P1 at Glengarriff Bridge, the emergency overflow is piped to the Glengarriff River which then flows into Glengarriff Harbour. For P2 at the Tidal Pond, the emergency overflow enters the adjacent tidal pond which then joins Glengarriff Harbour.

There are no measures taken in the event of power failure. From local knowledge these emergency overflows have rarely being used.

The private pumping station located at the Dalewood Cottages Development pumps the wastewater from the 26 houses to join the public gravity sewer on the Kenmare Road..

Attachment C.1 should contain supporting documentation with regard to the plant and process capacity, systems, storm water overflows, emergency overflows,

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

Attachment included	Yes	No
		√

C.2 Outfall Design and Construction

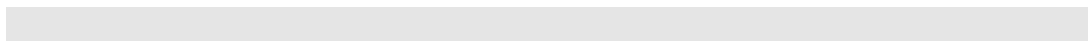
Provide details on the primary discharge point & secondary discharge points and storm overflows to include reference, location, design criteria and construction detail.

Discharge Points in Glengarriff Sewage Scheme

Discharge	Reference	Location	Design Criteria	Construction Details
Primary	SW01 Glen	093358E, 056263N	9" Cast Iron pipe encased in concrete	Discharge pipe to Glengarriff Harbour below LWL
Storm Water Overflow	SW02 Glen	093296E, 056324N	6" Concrete Pipe	Overflow pipe to Glengarriff Harbour

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

Attachment included	Yes	No
		√



SECTION D: DISCHARGES TO THE AQUATIC ENVIRONMENT

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

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

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

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

D.1 Discharges to Surface Waters

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/. Tables D.1(i)(a), (b) & (c), should be completed for the primary discharge point from the agglomeration and Tables D.1(ii)(a), (b) & (c) should be completed for **each** secondary discharge point, where relevant. Table D.1(iii)(a) should be completed for **each** storm water overflow. Individual Tables must be completed for each discharge point.

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

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

Attachment included	Yes	No
	√	

D.2 Tabular Data on Discharge Points

Applicants should submit the following information for each discharge point:

Table D.2:

PT_CD	PT_TYPE	LA_NAME	RWB_TYPE	RWB_NAME	DESIGNATION	EASTING	NORTHING
Point Code Provide label ID's	Point Type (e.g., Primary/ Secondary/ Storm Water Overflow)	Local Authority Name (e.g., Donegal County Council)	Receiving Water Body Type (e.g., River, Lake, Groundwater, Transitional, Coastal)	Receiving Water Body Name (e.g., River Suir)	Protected Area Type (e.g., SAC, candidate SAC, NHA, SPA etc.)	6E-digit GPS Irish National Grid Reference	6N-digit GPS Irish National Grid Reference
SW01 Glen	Primary	Cork County Council	Coastal	Glengarriff Harbour	pNHA, SAC	093358E	056263N

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

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SECTION E: MONITORING

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

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

Provide an estimation of the quantity of waste water likely to be emitted in relation to all primary and secondary discharge points applied for. This information should be included in Table E.1(i) via the following web based link: http://78.137.160.73/epa_wwd_licensing/.

Provide an estimation of the quantity of waste water likely to be emitted in relation to all storm water overflows within the agglomeration applied for. This information should be included in Table E.1(ii) via the following web based link: http://78.137.160.73/epa_wwd_licensing/.

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

E.2. Monitoring and Sampling Points

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

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

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

Details of any accreditation or certification of analysis should be included.

Attachment E.2 should contain any supporting information.

Attachment included	Yes	No
	√	

E.3. Tabular data on Monitoring and Sampling Points

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

PT_CD	PT_TYPE	MON_TYPE	EASTING	NORTHING	VERIFIED
Point Code Provide label ID's assigned in section E of application	Point Type (e.g., Primary, Secondary, Storm Water Overflow)	Monitoring Type M = Monitoring S = Sampling	6E-digit GPS Irish National Grid Reference	6N-digit GPS Irish National Grid Reference	Y = GPS used N = GPS not used

PT_CD	PT_TYPE	MON_TYPE	EASTING	NORTHING	VERIFIED
aSW-1	Receiving Waters	S	094400	054433	N
SW-01	Primary Discharge	S	093290	056301	N

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

E.4 Sampling Data

Regulation 16(1)(h) of the Waste Water Discharge (Authorisation) Regulations 2007 requires all applicants in the case of an existing waste water treatment plant to specify the sampling data pertaining to the discharge based on the samples taken in the 12 months preceding the making of the application.

Regulation 16(1)(l) of the regulations requires applicants to give details of compliance with any applicable monitoring requirements and treatment standards.

Attachment E.4 should contain any supporting information.

Attachment included	Yes	No
	√	

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

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

Detailed information is required to enable the Agency to assess the existing receiving environment. This section requires the provision of information on the ambient environmental conditions within the receiving water(s) upstream and downstream of any discharge(s).

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

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

- Give summary details and an assessment of the impacts of any existing or proposed emissions on the environment, including environmental media other than those into which the emissions are to be made.
- Details of all monitoring of the receiving water should be supplied via the following web based link: http://8137.160.73/epa_wwd_licensing/. Tables F.1(i)(a) & (b) should be completed for the primary discharge point. Surface water monitoring locations upstream and downstream of the discharge point shall be screened for those substances listed in Tables F.1(i)(a) & (b). Monitoring of surface water shall be carried out at not less than two points, one upstream from the discharge location and one downstream.
- For discharges from secondary discharge points Tables F.1(ii)(a) & (b) should be completed. Furthermore, provide summary details and an assessment of the impacts of any existing or proposed emissions on the surface water or ground (aquifers, soils, sub-soils and rock environment), including any impact on environmental media other than those into which the emissions are to be made.

Not applicable – there are no secondary discharge points associated with this scheme.

- Provide details of the extent and type of ground emissions at the works. For larger discharges to groundwaters, e.g., from Integrated Constructed Wetlands, large scale percolation areas, etc., a comprehensive report must be completed which should include, inter alia, topography, meteorological data, water quality, geology, hydrology, and hydrogeology. The latter must in particular present the aquifer classification and vulnerability. The Geological Survey of Ireland Groundwater Protection Scheme Dept of the Environment and Local Government, Geological Survey of Ireland, EPA (1999) methodology should be used for any such classification. This report should also

identify all surface water bodies and water wells that may be at risk as a result of the ground discharge.

There are no groundwater emissions from the existing or proposed discharges to which this licence application pertains.

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

Glengarriff Harbour and its environs are within a designated Special Area of Conservation and proposed National Heritage Area. The site synopsis for “Glengarriff Harbour and Woodland” (000090) is attached in Attachment F1.

- 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 for the main polluting substances as defined in the *Dangerous Substances Regulations S.I. No. 12 of 2001*. The results are presented in Table D and F. The copper and zinc values at the inlet are 60ug/l and 66ug/l respectively. Their values at the outlet are reduced to 32 and 36 ug/l respectively. Although these values are higher than recommended the samples taken at the ambient point appear normal thus showing that the WWTP is not impairing the environment.

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

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/EEC¹ in accordance with the procedures laid down in Article 21 of that Directive,
- (c) a special area of conservation within the meaning of the Natural Habitats Regulations, or
- (d) an area classified pursuant to Article 4(1) or 4(2) of Council Directive 79/409/EEC²;

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

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

An appropriate assessment of the impact on the environment in the context of the directives mentioned above for the proposed wastewater treatment plant has been carried out by Tobin Consulting Engineers, Cork and is attached in F1.

- o Describe, where appropriate, measures for minimising pollution over long distances or in the territory of other states.

Not applicable

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

No modelling is available for the discharge from the WWTP

Attachment included	Yes	No
	√	

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

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

ABS_CD	AGG_SERVED	ABS_VOL	PT_CD	DIS_DS	EASTING	NORTHING	VERIFIED
Abstraction Code	Agglomeration served	Abstraction Volume in m ³ /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.

There are no drinking water abstraction points downstream of discharge.

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

Attachment F.2 should contain any supporting information.

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SECTION G: PROGRAMMES OF IMPROVEMENTS

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

G.1 Compliance with Council Directives

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

- Dangerous Substances Directive 2006/11/EC,
- Water Framework Directive 2000/60/EC,
- Birds Directive 79/409/EEC,
- Groundwater Directives 80/68/EEC & 2006/118/EC,
- Drinking Water Directives 80/778/EEC,
- Urban Waste Water Treatment Directive 91/271/EEC,
- Habitats Directive 92/43/EEC,
- Environmental Liabilities Directive 2004/35/EC,
- Bathing Water Directive 76/160/EEC, and
- Shellfish Waters Directive (79/923/EEC).

Dangerous Substances Directive 2006/11/EC,

The parameters listed in the Dangerous Substances Directive 2006/11/EC have been tested at the inlet and outlet of the plant and an ambient sample taken within the harbour. Copper at 60ug/l and Zinc at 66ug/l were recorded at the inlet of the plant, but the outlet samples record show 32ug/l and 36ug/l respectively. Although the copper value is outside the allowable it can be seen from the ambient receiving water values that the plant is not having an adverse effect on the environment.

Water Framework Directive 2000/60/EC

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

Glengarriff Harbour, according to the SWRBD, is considered a transitional water body and has a moderate status. It has a risk assessment of 2a – Probably not at significant risk.

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

Not applicable as all discharges are to the sea.

Drinking Water Directives 80/778/EEC,

This Directive concerns standards for water intending for human consumption. As there is no drinking water abstraction point in the vicinity of any of the discharge points, this directive is not applicable.

Urban Waste Water Treatment Directive 91/271/EEC,

As stated in the S.I. No. 254 of 2001, Urban Waste Water Treatment Regulation, 2001: “A sanitary authority shall ensure by 31 December 2005 that urban waste water entering a collection system shall before discharge be subject to appropriate treatment in the following cases:

- (a) in respect of discharge to freshwater and estuaries from agglomerations with a population equivalent of less than 2,000.
- (b) in respect of discharges to coastal waters from agglomerations with a population equivalent of less than 10000.

The proposal to upgrade the WWTP under the WSIP will improve waste water quality in order to achieve compliance with these standards.

Habitats Directive 92/43/EEC & Birds Directive 79/409/EEC,

An Appropriate Assessment Report for Glengarriff Harbour and Woodland SAC, Co. Cork in accordance with Article 6 of EU Habitats Directive 92/43/EEC was carried out and is attached in Appendix F1.

Environmental Liabilities Directive 2004/35/EC,

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

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

At present Glengarriff WWTP is maintained by a full time Cork County Council Caretaker and the septic tank is de-sludged regularly to prevent environmental damage. The scheme has also been included in the Water Services Investment Programme and it is proposed to upgrade treatment to secondary standard thus further reducing the possibility of environmental damage.

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

Bathing Water Directive 76/160/EEC,

There are a number of bathing beaches in Glengarriff. (However there is no designated Bathing Water in the area). In Ireland the legislation governing the quality of bathing waters is set out in the Quality of Bathing Waters Regulations, 1992 (S.I. 155 of 1992) and amendments which transpose the EU Directive 76/160/EC concerning the quality of bathing water.

Sampling analysis results for the receiving waters contained in Attachment E.4 indicate a good water quality in the harbour with BOD of 2 mg/l and a Dissolved Inorganic Nitrogen Value of <0.6mg/l.

Shellfish Waters Directive (79/923/EEC).

Glengarriff Harbour is a shellfish designated area under European Communities (Quality of Shellfish Waters) Regulations, 2006 (S.I. No. 268 of 2006). 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). They range from heavy metals to salinity; faecal coliforms are regarded as one of the most significant parameters. The water quality improvement plan regulation 6 action programme for designated sites under the European Communities (Quality of Shellfish waters) Regulations 2006 (S.I. no. 268 of 2006) by the Shellfish Waters Management Committee (SWMC), 2006 notes that the discharge from the septic tank is not impacting on water quality in designated areas due to the distance involved. The location of designated waters is shown in Appendix 2 of the appropriate assessment attached in F1.

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

Attachment included	Yes	No
	√	

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

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

Not applicable for discharges into sea.

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

Attachment included	Yes	No
		√

G.3 Impact Mitigation

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

The new wastewater treatment plant is proposed for Glengarriff which will improve the standard of treatment and quality of effluent discharging from the wastewater treatment plant. This is currently are preliminary report stage which should be completed later in the year.

Glengarriff has been included in the most recent list of the National Water Services Investment Programme 2007-2009.

The proposed time frame for the upgrade to the Glengarriff WWTP is as follows -

- Construction start date Mar 2012
- Complete June 2013

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

Attachment included	Yes	No
	√	

G.4 Storm Water Overflow

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

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

Attachment included	Yes	No
		√

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SECTION H: DECLARATION

Declaration

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

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

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

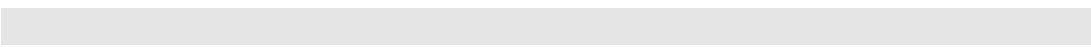
This consent relates to this application itself and to any further information or submission, whether provided by me as Applicant, any person acting on the Applicant's behalf, or any other person.

Signed by : Niall O'Mahony **Date :** 18/6/09
(on behalf of the organisation)

Print signature name: NIAL O'MAHONY

Position in organisation: SENIOR ENGINEER

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SECTION I: JOINT DECLARATION

Joint Declaration ^{Note1}

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

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

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

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

Lead Authority

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.

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ATTACHMENTS

Section A – Non Technical Summary

Attachment A1 - GLEN A1-01 - Site Location Map of Agglomeration

Section B - General

Attachment B1 - GLEN B1-01- Agglomeration Boundary Map

Attachment B2 - GLEN B2-01 – Site Location Map of Wastewater Treatment Plant

Attachment B3 - GLEN B3-01 – Primary Discharge Point

Attachment B8 - GLEN B8-01 – Site Notice Locations
- Site Notice
- Newspaper Advertisement

Attachment B9(iii) – Application Fee

Attachment B10 – Capital Investment Programme

Attachment B12 – Foreshore Licence

Section E - Monitoring

Attachment E2 – Monitoring Programme

Attachment E4 – Sampling Data

Section F – Existing Environment and Impact of the Discharges

Attachment F1 – Appropriate Assessment Report on Glengarriff harbour and Woodland SAC, Co. Cork in accordance with Article 6 of EU Habitates Directive 92/43/EEC

Section G – Programmes of Improvements

Attachment G1 – Recent Programme of Works

Attachment G3 – Recent Programme of Works & Approved Funding

TABLES

Tables D

Tables D1(i)(a), (b) & (c) Emission to Surface/Ground Water – Primary Discharge

Tables E

Table E.1 (i) Wastewater Frequency and Quality of Discharge - Primary Discharge

Tables F

Table F.1(i)(a) Surface/Ground Water Monitoring – Primary discharge

Table F.1(i)(b) Surface/Ground Water Monitoring (dangerous substances) – Primary discharge

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Section A

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Attachment A1

Map:

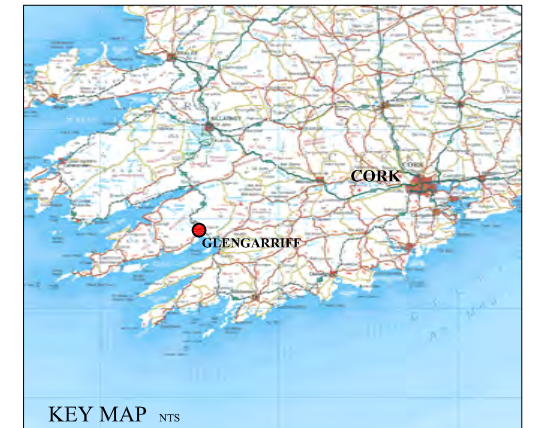
- GLEN A1-01 - Site Location Map of Agglomeration

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NOTES

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No.	Date	Drawn	Checked	Revision	Description

**Cork County Council,
Western Division.**



N. O'MAHONY, B.E.,
SEN. ENGR. (WATER SERVICES),
COURTHOUSE, SKIBBEREEN.

M. MURRELL,
DIRECTOR OF SERVICES
WEST CORK

Job Title:
**GLENGARRIFF_WASTE WATER
DISCHARGE_LICENCE_APPLICATION**

Drawing Title:
**ATTACHMENT_A.1
AGGLOMERATION_LOCATION_MAP**

Prepared By: JC	Checked By: OOB	Date: JUNE.2009
Drawing number: GLEN_A1_01	Scales: 1/50000	Rev: -

Section B

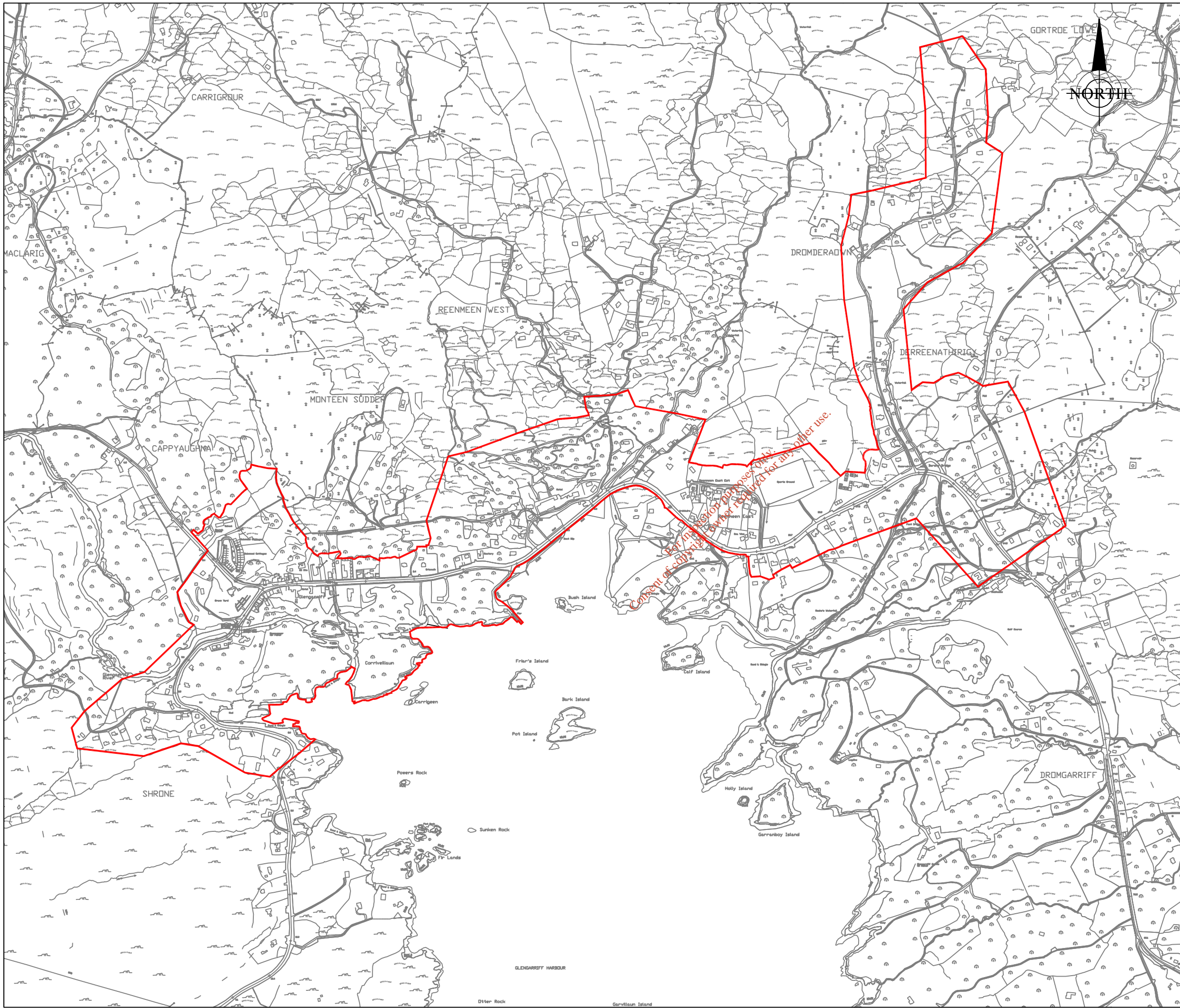
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Attachment B1

Drawing:

- GLEN B1-01 - Glengarriff Agglomeration Boundary Map

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LEGEND

AGGLOMERATION BOUNDARY

No.	Date	Drawn	Checked	Revision Description

**Cork County Council,
Western Division.**



N.O'MAHONY, B.E.,
SEN. ENGR. (WATER SERVICES),
COURTHOUSE, SKIBBEREEN.

M. MURRELL,
DIRECTOR OF SERVICES
WEST CORK

Job Title:
**GLENGARRIFF_WASTE WATER
DISCHARGE_LICENCE_APPLICATION**

Drawing Title:
**ATTACHMENT_B.1
AGGLOMERATION_BOUNDARY
SERVED_BY_WASTE_WATER
TREATMENT_PLANT**

Prepared By: JC	Checked By: OOB	Date: JUNE.2009
Drawing number: GLEN_B1_01	Scales: 1:10000	Rev: -

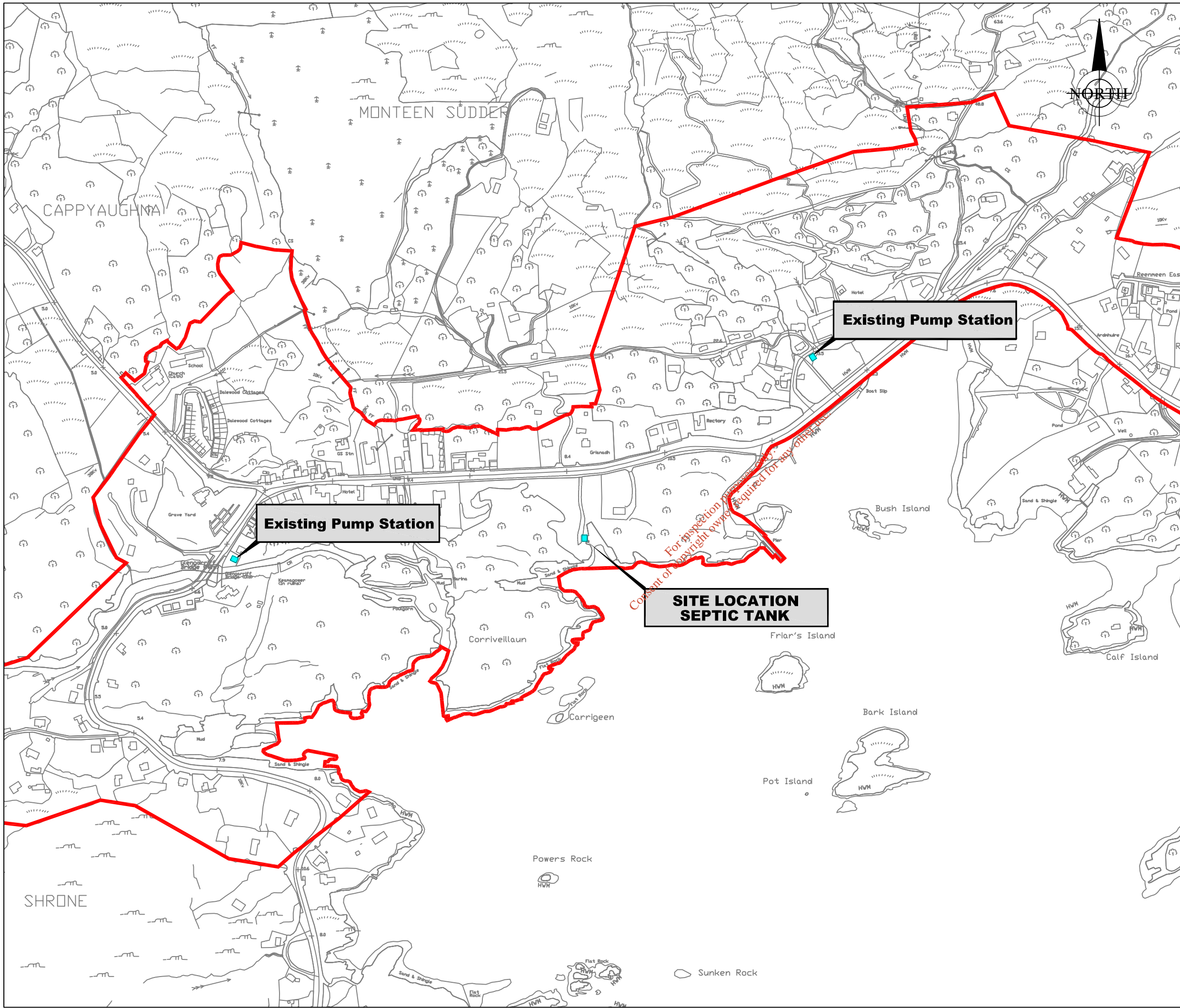
Consent of copyright owner required for any other use.

Attachment B2

Drawing:

- GLEN B2-01 - Site Location Plan of Waste Water Treatment Plant

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NOTES

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No.	Date	Drawn	Checked	Revision	Description

**Cork County Council,
Western Division.**



N.O'MAHONY, B.E.,
SENR. ENGR. (WATER SERVICES),
COURTHOUSE, SKIBBEREEN.

M. MURRELL,
DIRECTOR OF SERVICES
WEST CORK

Job Title:
**GLENGARRIFF_WASTE WATER
DISCHARGE_LICENCE_APPLICATION**

Drawing Title:
**ATTACHMENT_B.2
SITE_LOCATION_MAP**

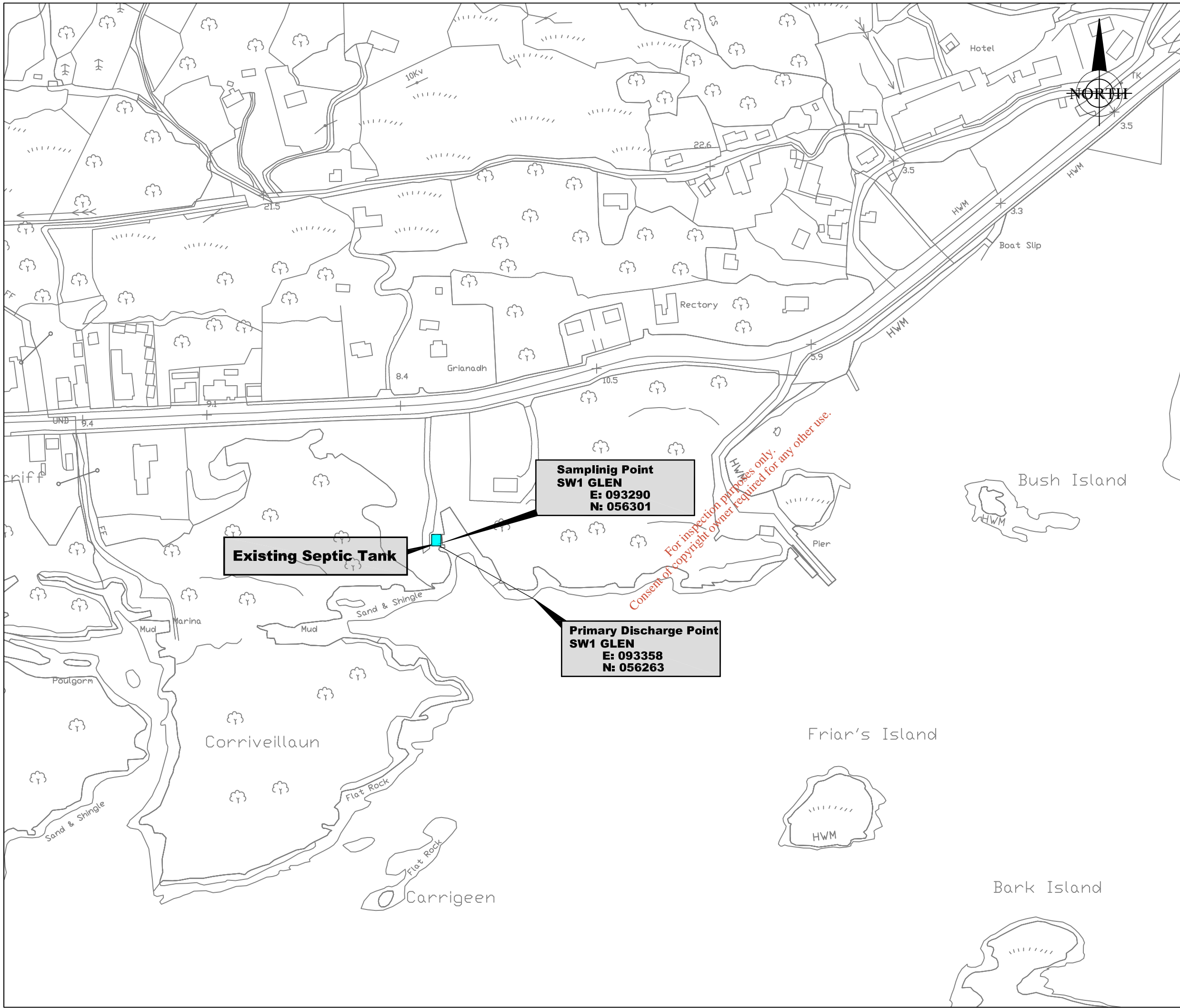
Prepared By: JC	Checked By: OOB	Date: JUNE.2009
Drawing number: GLEN_B2_01	Scales: 1:2500	Rev: -

Attachment B3

Drawing:

- GLEN B3-01 - Primary Discharge Point Location Plan

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No.	Date	Drawn	Checked	Revision	Description

**Cork County Council,
Western Division.**



N.O'MAHONY, B.E.,
SENR. ENGR. (WATER SERVICES),
COURTHOUSE, SKIBBEREEN.
M. MURRELL,
DIRECTOR OF SERVICES
WEST CORK

Job Title:
**GLENGARRIFF_WASTE WATER
DISCHARGE_LICENCE_APPLICATION**

Drawing Title:
**ATTACHMENT_B.3
EXISTING_PRIMARY_DISCHARGE**

Prepared By: JC	Checked By: OOB	Date: JUNE.2009
Drawing number: GLEN_B3_01	Scales: 1:2500	Rev: -

Attachment B8

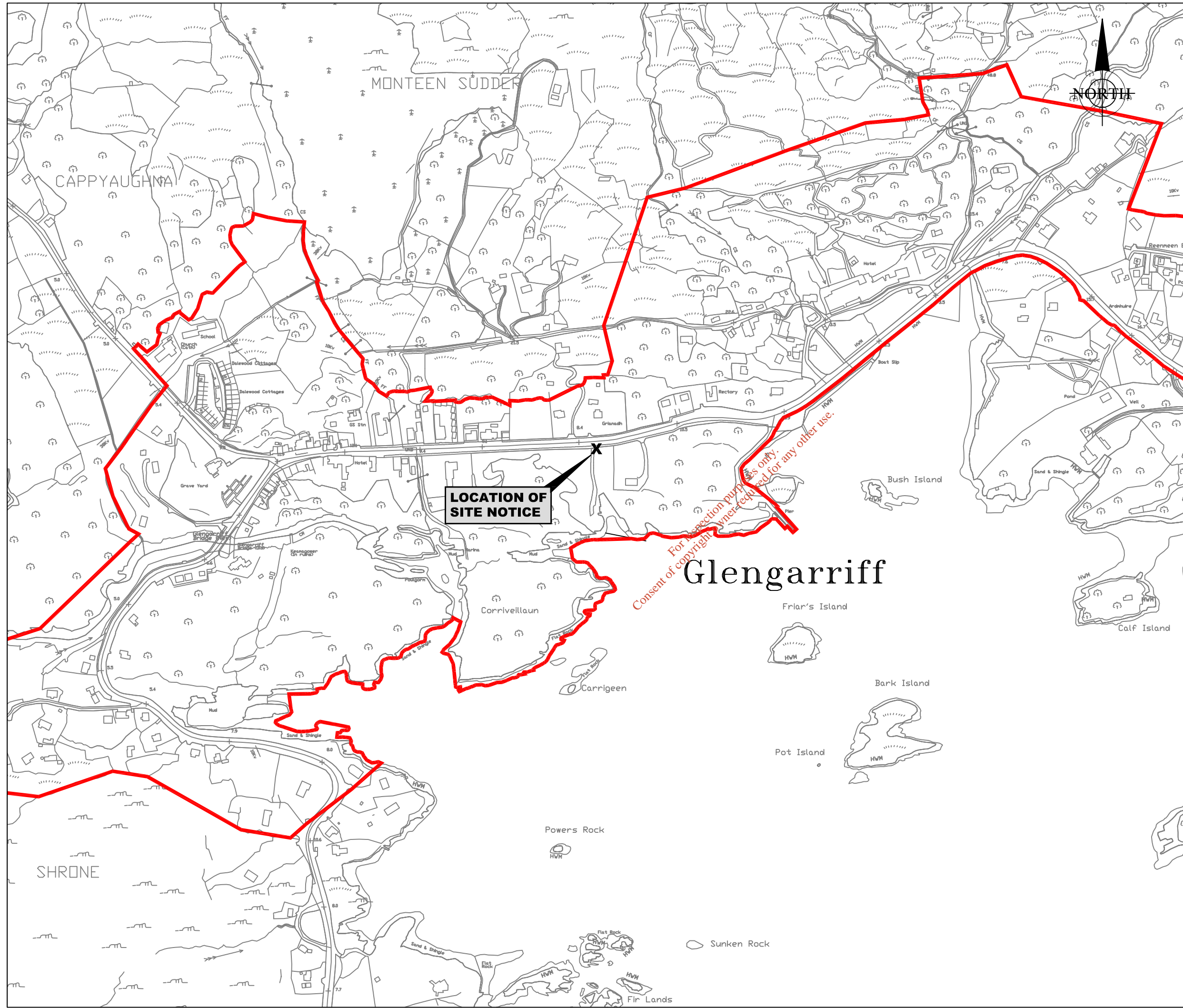
Drawing:

- GLEN B8-01 - Site Notice Location

Supporting Information:

- Site Notice
- Newspaper Advertisement

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No.	Date	Drawn	Checked	Revision	Description

**Cork County Council,
Western Division.**



N.O'MAHONY, B.E.,
SENIOR ENGR. (WATER SERVICES),
COURTHOUSE, SKIBBEREEN.

M. MURRELL,
DIRECTOR OF SERVICES
WEST CORK

Job Title:
**GLENGARRIFF_WASTE WATER
DISCHARGE_LICENCE_APPLICATION**

Drawing Title:
**ATTACHMENT_B.8
LOCATION_OF_SITE_NOTICE**

Prepared By: JC	Checked By: OOB	Date: JUNE.2009
Drawing number: GLEN_B8_01	Scales: 1:5000	Rev: -



CORK COUNTY COUNCIL

SITE NOTICE

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

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

Plant Name	Location	National Grid Ref.
Glengarriff WWTP	Glengarriff	E093292, N056304

Discharge	Function	Townland	Receptor	Grid Reference
Primary	Major	Monteensudder	Glengarriff Harbour	E093358, N056263

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

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

and at

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

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

CORK COUNTY COUNCIL

MAIRLE CHONTAE CHORCAÍ

LIC NOTICES

NORTHERN DIVISION

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

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

Name	Location	National Grid Ref.
Conna WWTP	Beennamweel, Bweeng	E150293 N088061

Discharge	Function	Townland	Receptor	Grid Ref.
Primary	Main	Beennamweel	Cummen Stream	E150251 N088034

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

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

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

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

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

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

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

Discharge	Function	Townland	Receptor	Grid Ref.
Primary	Main	Kill St. Anne	Shanowennadrinna	E184018 N092680

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

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

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

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

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

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

Name	Location	National Grid Ref.
Churchtown WWTP	Ballyadam, Churchtown	E150273 N113258

Discharge	Function	Townland	Receptor	Grid Ref.
Primary	Main	Ballyadam	Percolation Area	E150281 N113298

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

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

PUBLIC NOTICES

NORTHERN DIVISION

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

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

Plant Name	Location	National Grid Ref.
Conna WWTP	Conna Village	E192575 N093434

Discharge	Function	Townland	Receptor	Grid Ref.
Primary	Main	Conna	River Bride	E192689 N093500

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

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

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

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

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

Plant Name	Location	National Grid Ref.
Glanworth WWTP	Glanworth Village	E175812 N103927

Discharge	Function	Townland	Receptor	Grid Ref.
Primary	Main	Glanworth	River Funshion	E175870 N103919

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

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

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

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

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

Plant Name	Location	National Grid Ref.
Clondulane WWTP	Clondulane North	E185341 N98981

Discharge	Function	Townland	Receptor	Grid Ref.
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PUBLIC NOTICES

WESTERN DIVISION

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

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

Plant Name	Location	National Grid Ref.
Glengarriff WWTP	Glengarriff	E093292 N056304

Discharge	Function	Townland	Receptor	Grid Ref.
Primary	Major	Monteensudder	Glengarriff Harbour	E093358 N056263

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

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

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

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

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

Plant Name	Location	National Grid Ref.
Union Hall WWTP	Union Hall	E121147 N034582

Discharge	Function	Townland	Receptor	Grid Ref.
Primary	Main	Ballincolla	Glandore Harbour	E121152 N034613

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

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

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

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTEWATER DISCHARGE LICENCE

In accordance with the Wastewater Discharge (Authorisation) Regulations 2007, S.I. No. 684 of 2007, Water Services (Western Division), Cork County Council, Courthouse, Skibbereen, Co. Cork is applying to the Environmental Protection Agency for a Wastewater Discharge Licence for the Ballineen/Enniskeane Agglomeration at the following locations:

Plant Name	Location	National Grid Ref.
Ballineen WWTP	Derrigra	E134640

Attachment B9

- Application Fee

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Comhairle Contae Chorcaí Cork County Council

Courthouse,
Skibbereen, Co. Cork.
Tel (028) 21299 • Fax (028) 21995
Web: www.corkcoco.ie
Teach na Cúirte,
An Sciobairín, Co. Chorcaí.
Fón: (028) 21299 • Faics: (028) 21995
Suíomh Gréasáin: www.corkcoco.ie



Mr. Declan Groarke,
Senior Executive Engineer,
Cork County Council,
Courthouse,
Skibbereen.

27th May 2009

Re:- Waste Water Discharge Regulations 2007.

Dear Declan,

With regard to the application to the EPA for Discharge Licences for the agglomerations with P.E.s of 500 to 1,000 listed below, I confirm the following in relation to the application fee of €70,000 (being €10,000 for each agglomeration).

Transferred to EPA Bank Account:- **Account No. 23507098**

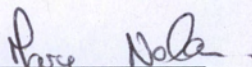
Date Transferred to EPA Bank Account:- **21st May, 2009.**

Electronic Fund Transfer Reference No.:- **1080937.**

**Agglomerations: Ballydehob
Castletownshend
Drimoleague
Glengarriff
Timoleague
Union Hall
Ballineen/Enniskeane**

This information should be included with the application to the EPA.

Yours faithfully,


Mary Nolan,
Staff Officer.



Attachment B10

- Capital Investment Programme

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Cork County

Water Services Investment Programme 2007 - 2009

Schemes at Construction	W/S	Est. Cost	W/S	Est. Cost
Cork North				
Mitchelstown Sewerage Scheme (Nutrient Removal)	S	221,000		
Cork South				
Ballyvourney/ Ballymakeery Sewerage Scheme	S	3,049,000		
Cobh/ Middleton/ Carrigtwohill Water Supply Scheme	W	10,135,000		
Cork Lower Harbour Sewerage Scheme (Crosshaven SS) (G)	S	4,850,000		
Cork Water Strategy Study (G)	W	941,000		
Kinsale Sewerage Scheme	S	20,000,000		
Middleton Sewerage Scheme (Infiltration Reduction) (G)	S	2,078,000		
		41,274,000		
Schemes to start 2007				
Cork North				
North Cork Grouped DBO Wastewater Treatment Plant (Buttevant, Doneraile & Kilbrin)	S	5,150,000		
Cork West				
Skibbereen Sewerage Scheme	S	20,000,000		
		25,150,000		
Schemes to start 2008				
Cork North				
Mallow/ Ballyvinter Regional Water Supply Scheme (H) W		8,652,000		
Mallow Sewerage Scheme (H)	S	5,408,000		
Cork South				
Ballincollig Sewerage Scheme (Nutrient Removal) (G)	S	948,000		
Ballingeary Sewerage Scheme	S	1,296,000		
Bandon Sewerage Scheme Stage 2	S	14,729,000		
City Environs (CASP) Strategic Study (G)	S	153,000		
Cloghroe Sewerage Scheme (Upgrade)	S	683,000		
Coachford Water Supply Scheme	W	1,318,000		
Garretstown Sewerage Scheme	S	2,153,000		
Inniscarra Water Treatment Plant Extension Phase 1	W	2,678,000		
Little Island Sewerage Scheme (G)	S	2,200,000		
		61,137,000		
Cork West				
Bantry Sewerage Scheme	S	7,148,000		
Dunmanway Sewerage Scheme	S	2,153,000		
Leap/ Ballimore Water Supply Scheme	W	6,365,000		
Schull Water Supply Scheme	W	5,253,000		
Schemes to start 2009				
Cork North				
Banteer/Dromahane Regional Water Supply Scheme	W	1,576,000		
Conna Regional Water Supply Scheme Extension	W	2,627,000		
Cork NE Water Supply Scheme	W	4,326,000		
Cork NW Regional Water Supply Scheme	W	6,046,000		
Millstreet Wastewater Treatment Plant (Upgrade)	S	1,628,000		
Cork South				
Ballincollig Sewerage Scheme (Upgrade) (G)	S	22,248,000		
Cork Lower Harbour Sewerage Scheme (excl. Crosshaven SS)	S	73,542,000		
Shannagary/ Garryvoe/ Ballycotton Sewerage Scheme	S	3,780,000		
Youghal Sewerage Scheme	S	14,420,000		
Cork West				
Ballydehob Sewerage Scheme	S	683,000		
Bantry Water Supply Scheme	W	14,935,000		
Clonakilty Sewerage Scheme (Plant Capacity Increase)	S	3,677,000		
Courtmacsherry/ Timoleague Sewerage Scheme	S	2,472,000		
Dunmanway Regional Water Supply Scheme Stage 1	W	12,669,000		
				164,629,000
Serviced Land Initiative				
Cork North				
Ballycough Water Supply Scheme	W	139,000		
Ballyhooley Improvement Scheme	W/S	139,000		
Brookhill-Rathgoggin Sewerage Scheme	S	406,000		
Bweeng Water Supply Scheme	W	115,000		
Churchtown Sewerage Scheme (incl. Water)	W/S	543,000		
Clondulane Sewage Treatment Plant	S	417,000		
Freemount Sewerage Scheme	S	150,000		
Pike Road Sewerage Scheme (incl. Water)	W/S	2,080,000		
Rathormac Sewerage Scheme (incl. Water)	W/S	555,000		
Spa Glen Sewerage Scheme	S	736,000		
Uplands Fermoy Sewerage Scheme (incl. Water)	W/S	1,174,000		
Watergrasshill Water Supply Scheme (incl. Sewerage) (G)	W/S	4,151,000		
Cork South				
Ballincollig Sewerage Scheme (Barry's Rd Foul and Storm Drainage) (G)	S	1,164,000		
Belgooley, Water Supply Scheme (incl. Sewerage)	W/S	2,913,000		
Blamey Water Supply Scheme (Ext. to Station Rd) (G)	W	416,000		
Carrigtwohill Sewerage Scheme (Treatment and Storm Drain) (G)	S	7,632,000		
Castlematyr Wastewater Treatment Plant Extension	S	1,200,000		
Crookstown Sewerage Scheme (incl. Water)	W/S	1,200,000		
Dripsey Water Supply Scheme (incl. Sewerage)	W/S	1,112,000		
Glounthane Sewerage Scheme (G)	S	1,576,000		
Innishannon Sewerage Scheme	S	277,000		
Innishannon Wastewater Treatment Plant	S	694,000		
Keryypike Sewerage Scheme	S	832,000		
Keryypike Water Supply Scheme	W	416,000		
Killeagh Wastewater Treatment Plant Extension	S	1,200,000		
Killeagh Water Supply Scheme (includes Sewerage)	W/S	485,000		
Killeens Sewerage Scheme	S	420,000		
Kinagleary Sewerage Scheme	S	694,000		
Middleton Wastewater Treatment Plant Extension	S	4,050,000		

Cork County contd.

Water Services Investment Programme 2007 - 2009

	W/S	Est. Cost		W/S	Est. Cost
Mogeely, Castlemartyr & Ladysbridge Water Supply Scheme	W	2,566,000	Cork South		
North Cobh Sewerage Scheme (G)	S	3,193,000	Carrigtwohill Sewerage Scheme (G)	S	20,000,000
Riverstick Water Supply Scheme (incl. Sewerage)	W/S	525,000	Cork Sludge Management (G)	S	14,420,000
Rochestown Water Supply Scheme	W	2,700,000	Cork Water Supply Scheme (Storage - Mount Emla, Ballincollig & Chetwind) (G)	W	8,500,000
Saleen Sewerage Scheme	S	1,051,000	Inniscarra Water Treatment Plant (Sludge Treatment)(G)W		5,356,000
Youghal Water Supply Scheme	W	2,300,000	Macroon Sewerage Scheme	S	5,150,000
			Minane Bridge Water Supply Scheme	W	1,421,000
Cork West					
Castletownshend Sewerage Scheme	S	1,576,000	Cork West		
		50,797,000	Bantry Regional Water Supply Scheme (Distribution)	W	9,455,000
Rural Towns & Villages Initiative			Cape Clear Water Supply Scheme	W	1,679,000
Cork North			Castletownbere Regional Water Supply Scheme	W	8,405,000
Buttevant Sewerage Scheme (Collection System)	S	2,446,000	Glengarriff Sewerage Scheme	S	2,500,000
Doneraile Sewerage Scheme (Collection System)	S	1,738,000	Roscarberry/Owenahincha Sewerage Scheme	S	1,576,000
			Skibbereen Regional Water Supply Scheme Stage 4	W	7,880,000
Cork South					95,646,000
Innishannon (Ballinadee/ Ballinspittle/ Garrettstown) Water Supply Scheme	W	6,726,000	Water Conservation Allocation		12,206,000
			Asset Management Study		300,000
Cork West			South Western River Basin District (WFD) Project¹		9,400,000
Ballylicky Sewerage Scheme	S	2,153,000			
Baltimore Sewerage Scheme	S	3,762,000			
Castletownbere Sewerage Scheme	S	5,302,000			
Schull Sewerage Scheme	S	3,523,000			
		24,950,000	Programme Total		485,489,000
Schemes to Advance through Planning					
Cork North					
Mitchelstown North Galtees Water Supply Scheme	W	3,152,000			
Mitchelstown Sewerage Scheme	S	3,000,000			
Newmarket Sewerage Scheme	S	3,152,000			

¹ 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