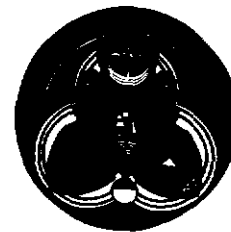


Comhairle Contae Chorcaí Cork County Council

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



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

Our Ref.: MS/Kilm/1209

22 December 2009

Sub.: Waste Water Discharge License Application for the Agglomeration of Kilmurry Village, County Cork.

Dear Sir/Madam,

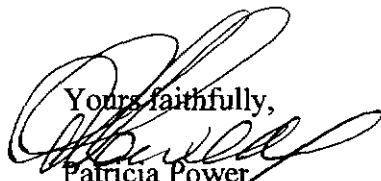
Please find enclosed the waste water discharge license application for the agglomeration of Kilmurry Village in County Cork.

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

- 1 No. signed hard copies of originals.
- 1 No. copy of the originals.
- 2 No. CD-ROM with documentation in electronic searchable PDF,
- 1 No. CD-ROM with GIS Data, Table D.2, Table E.3. and Table F.2

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

Yours faithfully,


Patricia Power
Director of Services





Waste Water Discharge Certificate of Authorisation Application Form

EPA Ref. N^o:
(Office use only)

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



Tracking Amendments to Draft Application Form

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

For inspection purposes only.
Consent of copyright owner required for any other use.

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

CONTENTS

	Page
ABOUT THIS APPLICATION FORM	4
PROCEDURES	5
SECTION A: NON-TECHNICAL SUMMARY	7
SECTION B: GENERAL	12
SECTION C: INFRASTRUCTURE & OPERATION	19
SECTION D: DISCHARGES TO THE AQUATIC ENVIRONMENT	21
SECTION E: MONITORING	23
SECTION F: EXISTING ENVIRONMENT & IMPACT OF THE DISCHARGE(S)	25
SECTION G: PROGRAMMES OF IMPROVEMENTS	34
SECTION H: DECLARATION	36
SECTION I: JOINT DECLARATION	37

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.

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/

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.

For inspection purposes only.
Consent of copyright owner required for any other use.

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.

The village of Kilmurry is situated approximately 11.5 km south of the town of Macroom off the N22 in County Cork. The village has a school, a church and 80 houses built along main access road of the village. The existing waste treatment plant handles waste from 14 houses only at St.Mary Terrace housing estate, with loading of 42 PE. Originally the system (built late 1970's) was a septic tank to service the newly developed housing estate. In 1991 the plant was upgraded, Cork County Council built a secondary treatment unit on site, this was a Bord Na Mona Pura- flow sewage treatment unit (see attachment C.1). In 1996 a pre cast concrete tank (capacity 1500 gallon) was installed between the septic tank and the pumping station, a ZABEL Filter was also fitted. In 2007 the peat was replaced in the pura-flow treatment tank. The distribution grids, the filtering system and pipe work was also replaced in 2007.

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.

The Waste Water Works and the activities carried out therein.

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

- **distribution grids and pipe works, Covering contributory areas of 14 houses in the St. Mary estate .**
- **Inlet**
- **Septic Tank**
- **Pumping Station**
- **Bord na Mona Puraflow sewerage treatment unit (added 1991).**
- **Outlet to water course**

The current Population Equivalent contributing to the septic tank is approximately 42. 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. Effluent from the septic tank passes onward into the pura flow system for further treatment.

The sewerage network does not currently have an existing sampling regime in place.

In 2009 Kilmurry Housing Developments have submitted an application (No. 096122) to build 34 houses in the village. The project was to include a new WWTP, taking into account the future requirement of the village.

Cork County Council is currently reviewing the proposal which is at planning stage (see attachment No.A1 Map 1 for proposed location).

The sources of emissions from the waste water works.

The population load for the existing agglomeration arises from Domestic Population only.

The sewage is collected via the existing sewer network and is discharged into the septic tank . 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 .

The proposed plant will be initially designed to cater for the proposed development ,but phase 2 must be designed taking into consideration the remaining houses.

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.

Measures planned to monitor emissions into the environment (when the new WWTP is constructed.).

No sampling is currently carried out on the influent or effluent. It is likely that under the Employers Requirements for Operation and Maintenance of the newly constructed plant 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

Consent of copyright owner required for any other use.

*For inspection purposes only.
Consent of copyright owner required for any other use.*

Supporting information should form **Attachment N^o A.1**

*For inspection purposes only.
Consent of copyright owner required for any other use.*

SECTION B: GENERAL

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

B.1 Agglomeration Details

Name of Agglomeration: **Kilmurry**

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.

Name*:	Cork County Council
Address:	County Hall
	Carrigrohane Road
	Cork
Tel:	021 4276891
Fax:	021 4276321
e-mail:	

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

*This should be the name of person nominated by the Water Services Authority for the purposes of the application.

Co-Applicant's Details

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

*This should be the name of a Water Services Authority, other than the lead authority, where multiple authorities are the subject of a waste water discharge Certificate of Authorisation application.

Design, Build & Operate Contractor Details

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

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

Attachment B.1 should contain appropriately scaled drawings / maps ($\leq A3$) 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.

Name*:	Ray Crowley
Address:	Bandon Area office, Bandon, Cork County
Grid ref (6E, 6N)	139117 E, 65902 N
Level of Treatment	Secondary
Primary Telephone:	023 41181
Fax:	
e-mail:	Raymond.Crowley@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
	X	

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.

Discharge to	Surface Water
Type of Discharge	PIPE DISCHARGING TO SURFACE WATER
Unique Point Code	SW1KILM
Location	ST. MARY'S HOUSING ESTATE, KILMURRY
Grid ref (6E, 6N)	139124 E 066108 N

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
	X	

B.4 Location of Secondary Discharge Point(s)

NOT APPLICABLE

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.

Discharge to	Surface Water or Groundwater
Type of Discharge	E.g. Diffuser, Lunar Valve, Non-return flap valve, Point source, via Percolation area, via Soakaways etc.
Unique Point Code	NA
Location	NA
Grid ref (6E, 6N)	NA

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
		X

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

NOT APPLICABLE

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

Type of Discharge
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
		X

B.6 Planning Authority

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

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

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

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

Local Authority Planning File Reference N^o:	NOT APPLICABLE
---	-----------------------

Attachment B.6 should contain **the most recent** planning permission, including a copy of **all** conditions, and where an EIS was required, copies of any such EIS and any certification associated with the EIS, should also be enclosed. Where planning permission is not required for the development, provide reasons, relevant correspondence, etc.

Attachment included	Yes	No
		X

B.7 Other Authorities

NOT APPLICABLE

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.

Name:	Health Services Executive Southern Region
Address:	North Lee Local Health Office
	Floor 2, Abbeycourt House
	George's Quay, Cork
Tel:	021 4965511
Fax:	
e-mail:	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.

Population Equivalent	42
Data Compiled (Year)	2009
Method	HOUSE COUNT ON SITE

B.8 (ii) Pending Development**Not applicable**

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.

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.

Class of waste water discharge	Fee (in €)
<500	3000

Appropriate Fee Included	Yes	No
		X*

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

The DEHLG has requested that all local authorities prepare a list of assessment of needs. Cork County Council's list is awaiting approval of elected members, The outcome of the department review will not be known before March 2010. Kilmurry Village is included on the list as part of bundle 3 with contract titled 'Sewerage schemes upgrade'.

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
		x

B.10 Significant Correspondence

None found

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

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

Not applicable

Attachment included	Yes	No
		x

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
		x

SECTION C: INFRASTRUCTURE & OPERATION

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

C.1 Operational Information Requirements

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

C.1.1 Storm Water Overflows

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

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

C.1.2 Pumping Stations **(no information available)**

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.

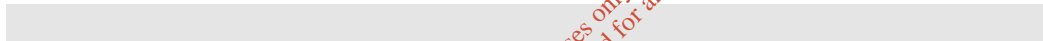
**The Kilmurry sewerage network which is operated by Cork County Council services 14 houses out of a total of 80 in the village .
The existing system comprises of the following elements :**

- **distribution grids and pipe works, Covering contributory areas of 14 houses in the St. Mary estate built by Cork County Council .**
- **Inlet**
- **Septic Tank**
- **Pumping Station (no detailed information available on this item)**
- **Bord na Mona Puraflow sewerage treatment unit (added 1991) (see attachment for details on selected system).**
- **Outlet to water course**

The existing waste treatment plant handles waste from the 14 houses with loading of 42 pe only . Originally the system (built late 1970's) was a septic tank built to services the newly developed housing estate. In 1991 the plant was upgraded , Cork County Council built a secondary treatment unit on site, this was Bord Na Mona Pura- flow sewage treatment unit (see attachments C.1). in 1996 a pre cast concrete tank (capacity 1500 gallon) was installed between the septic tank and the pumping station, a ZABEL Filter was also fitted. In 2007 the peat was replaced in the pura-flow treatment tank. The distribution grids, the filtering system and pipe work was also replaced in 2007.

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
	x	



For inspection purposes only.
Consent of copyright owner required for any other use.

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/. 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/. 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 (online data)	Yes	No
	X	

D.1(ii) Discharges to Groundwater

NOT APPLICABLE

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 '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)**

Attachment included	Yes	No
		X

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 KIL M	Primary	Cork County Council	River	BUINGE A RIVER	NONE	13912 4	066108

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

SECTION E: MONITORING

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

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

Provide an estimation of the quantity of waste water likely to be emitted in relation to all primary and secondary discharge points applied for. This information should be included in Table 'Discharge Point Details' 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 'Discharge Point Details' 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 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.

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

Attachment E.2 should contain any supporting information.

Attachment included	Yes	No
	X	

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-1d	D/S sampling U/S	Sampling	138956	066472	Y = GPS used
Asw-1u			139187	065963	N = GPS not used

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 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	

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/. 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/. 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.

Existing Environment & Impact of Discharges

The receiving water Body of Kilmurry Waste Water Treatment System is the River Buingea. All effluent from the treatment system is discharged via the primary discharge point into a feeder stream of the River Buingea. There are no discharges to ground or any other media.

The River Buingea (Water Body Code IE_SW_19_1875) is contained within Hydrometric Area 19. The River Buingea is a tributary of the River Lee.

The River Buingea has "Poor" status and has been classified as being "At Risk" of not achieve good status by 2015 under the Water Framework Directive Article 5 Characterisation (2004).

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.

Water quality in the River Buingea is monitored by the EPA station 0800 at Athsollis Bridge, is located approximately 2km up-stream of the discharge point. Water quality in this station had a Q3-4 value from 2002. The monitoring results are shown in Table F1.1 below.

Biological Quality Ratings (Q Values)		
Station	2002	2005
0800	3-4	3-4

Table F1.1 EPA Monitoring Results

A biological Quality Rating of Q3-4 represents moderately polluted water.

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 river water bodies in Table F1.2 below.

Biological quality elements	Classification system	Ecological quality ratio	CCC Sampling Data Ambient Monitoring Point aSW-1d
		High-Good boundary	
		Rivers (All Types)	
Benthic invertebrate fauna	Quality rating system (Q-value)	0.85	
Phytobenthos	Trophic diatom index (TDI)	0.93	
Thermal conditions		River water body	CCC Sampling Data
Temperature		Not greater than 1.5°C rise in ambient temperature outside the mixing zone	
Oxygenation conditions		River water body	CCC Sampling Data
Biochemical Oxygen Demand (BOD) (mgO ₂ /l)		Good status ≤1.3 (mean) or ≤2.2(95%ile)	<1
Dissolved oxygen lower limit		95%ile >80% Saturation	
Dissolved oxygen upper limit		95%ile <120% Saturation	
Acidification Status		River Water Body	CCC Sampling Data
pH (individual values)		Soft Water: 4.5 < pH < 9.0 Hard Water: 6.0 < pH < 9.0	7.6
Nutrient conditions		River Water body	CCC Sampling Data
Total Ammonia (mg N/l)		Good status ≤0.065(mean) or ≤0.090(95%ile)	<0.1 (Limit of Detection)
Molybdate Reactive Phosphorus (MRP) (mg P/l)		Good status ≤0.035(mean) or ≤0.075(95%ile)	0.09

Table F1.2 Criteria for Calculating Surface Water Ecological Status and Ecological Potential

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 have 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.

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.

There are 2 drinking water abstraction points on the River Lee. These are located downstream of the discharge point and are at Inniscarra Reservoir and at Lee Road Waterworks. These are approximately 20km

and 32km respectively downstream of the primary discharge point. No mitigating measures are in place.

- 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)

Assessment of Relevant Legislation Applicable to Kilmurry Discharge

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

- **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,
- Freshwater Fish Directive 2006/44/EC & Salmonid Regulations S.I. No. 293/1988
- Nitrates Directive 91/676/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 Kilmurry is primarily from domestic sources. Cork County Council has monitored for the main polluting substances, as part of this application, as defined in the Dangerous Substances Regulations, 2001 (S.I. No. 12/2001). The results are presented in Attachment E.

Water Framework Directive 2000/60/EC

The objectives of the 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 the feeder stream of the River Buingea (for this application). Copies of the Water Quality Management Plans 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 discharge point is not located within an SPA.

Groundwater Directives 80/68/EEC and 2006/118/EC

Not applicable as there are no emissions to groundwater.

Drinking Water Directive 801/68/EEC

In view of the importance for public health of water for human consumption, it is necessary to lay down quality standards with which such water must comply. There are 2 drinking water abstraction points on the River Lee. These are located downstream of the discharge points and are at Inniscarra Reservoir and at Lee Road Waterworks. These are approximately 38km and 51km respectively downstream of the primary discharge point. The most significant parameters, which may occur, are BOD, suspended solids, nitrates, ammonium, phosphates, total coliforms, faecal coliforms, faecal streptococci and salmonella. Given the distance between the proposed WWTP and the abstraction point at Inniscarra, it is extremely unlikely that the discharge will have any significant impact on water quality used for public water supply.

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 PE.,
- for discharges to coastal waters from agglomerations of less than 10,000 PE."

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

The combined PE of the Kilmurry agglomeration is 42.

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. There are no SACs or SPAs downstream of the discharge point.

Freshwater Fish Directive 2006/44/EC & Salmonid Regulations S.I. No. 293/1988

The River Lee has been designated as a salmonid river under the European communities Regulation, 1988. Under these regulations monthly monitoring for a range of specified parameters is required and limits are specified for these parameters. The regulations carry some weight due to their strict limits and the consequent suitability of a watercourse for other uses should it meet these limits.

Nitrates Directive 91/676/EEC

Council Directive 91/676/EEC concerning the protection of waters against pollution caused by nitrates from agricultural sources obliges member states to identify Nitrate Vulnerable Zones within which restricted agricultural practices will apply. With respect to surface waters, the Directive notes that sensitive waters shall be identified where nitrate levels exceed the maximum concentration specified in the Surface Water Directive. The whole country is designated as a nitrate vulnerable zone; therefore the nitrate directive is applicable.

Bathing Water Directive 76/160/EEC

There are no designated bathing waters in the vicinity of the discharge.

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

There are no designated shellfish waters in the vicinity of the primary discharge.

Assimilative Capacity of the Receiving Water

As no upstream ambient sample was taken, the downstream ambient sample results were used instead.

Mass Balance Equation for Orthophosphates:

Median flow of River (SWRBD) = 0.5668m³/sec
Median OPO₄-P in River (upstream) = 0.09mg/l
Average volume of discharge = 0.00011m³/sec
Median value for OPO₄-P in discharge = 6.0mg/l

$$C_{\text{final}} = \frac{(0.5668 \times 0.09) + (0.00011 \times 6.0)}{(0.5668 + 0.00011)}$$

$$C_{\text{final}} = 0.0911 \text{mg/l OPO}_4\text{-P}$$

The increase in Orthophosphate due to the discharge at Kilmurry is 0.0011mg/l.

Mass Balance Equation for BOD:

Flow of River (95%ile) = 0.1054m³/sec
Median BOD in River (upstream) = 1.0mg/l
Average volume of discharge = 0.00011m³/sec
Median value for BOD in discharge = 100.0mg/l

$$C_{\text{final}} = \frac{(0.1054 \times 1.0) + (0.00011 \times 100)}{(0.1054 + 0.00011)}$$

$$C_{\text{final}} = 1.1 \text{mg/l BOD}$$

The increase in BOD due to the discharge at Kilmurry is 0.1mg/l.

Mass Balance Equation for Suspended Solids:

Flow of River (95%ile) = 0.1054m³/sec
Median SS in River (upstream) = 4.0mg/l
Average volume of discharge = 0.00011m³/sec
Median value for SS in discharge = 250mg/l

$$C_{\text{final}} = \frac{(0.1054 \times 4.0) + (0.00011 \times 250)}{(0.1054 + 0.00011)}$$

$$C_{\text{final}} = 4.256 \text{mg/l Suspended Solids}$$

The increase in Suspended Solids due to the discharge at Kilmurry is 0.256mg/l.

Mass Balance Equation for Total Phosphates:

Median Flow of River (SWRBD) = 0.5668m³/sec
Median TP-P in River (downstream) = 0.139mg/l
Average volume of discharge = 0.00011m³/sec
Median value for TPO₄-P in discharge = 5.0mg/l

$$C_{\text{final}} = \frac{(0.5668 \times 0.139) + (0.00011 \times 5.0)}{(0.5668 + 0.00011)}$$

$$C_{\text{final}} = 0.13994 \text{mg/l Total Phosphates}$$

The increase in Total Phosphates due to the discharge at Kilmurry is 0.00094mg/l.

Mass Balance Equation for Total Nitrogen:

Flow of River (95%ile) = 0.1054m³/sec

Median Total Nitrogen in River (downstream) = 2.6mg/l

Average volume of discharge = 0.00011m³/sec

Median value for Total Nitrogen in discharge = 50.0mg/l

$$C_{\text{final}} = \frac{(0.1054 \times 2.6) + (0.00011 \times 50.0)}{(0.1054 + 0.00011)}$$

$$C_{\text{final}} = 2.649 \text{mg/l Total Nitrogen}$$

The increase in Total Nitrogen due to the discharge at Kilmurry is 0.049mg/l.

Mass Balance Equation for Sulphates:

Flow of River (95%ile) = 0.1054m³/sec

Median Sulphates in River (downstream) = 30.0mg/l

Average volume of discharge = 0.00011m³/sec

Median value for Sulphates in discharge = 30.0mg/l

$$C_{\text{final}} = \frac{(0.1054 \times 30.0) + (0.00011 \times 30.0)}{(0.1054 + 0.00011)}$$

$$C_{\text{final}} = 30.0 \text{mg/l Sulphates}$$

The increase in Sulphates due to the discharge at Kilmurry is 0.0mg/l.

Mass Balance Equation for Ammonia-N:

Flow of River (95%ile) = 0.1054m³/sec

Median Ammonia in River (upstream) = 0.1mg/l

Average volume of discharge = 0.00011m³/sec

Median value for Ammonia in discharge = 3.0mg/l

$$C_{\text{final}} = \frac{(0.1054 \times 0.1) + (0.00011 \times 3.0)}{(0.1054 + 0.00011)}$$

$$C_{\text{final}} = 0.103 \text{mg/l Total Ammonia}$$

The increase in Ammonia due to the discharge of Kilmurry is 0.003mg/l.

- 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**.

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
SW_Lee28 8Main_Lee _Lower,L WB: Inniscarra Reservoir	Cork Harbour and City	35323	-	38000	153489	072309	N
SW_Lee28 8Main_Lee _1Lower	Cork City	49600	-	51000	164738	071444	N

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

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

Attachment F.2 should contain any supporting information.

SECTION G: PROGRAMMES OF IMPROVEMENTS

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

G.1 Compliance with Council Directives

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

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

In 2009 Kilmurry Housing Developments have submitted an application (No. 096122) to build 34 houses in the village. The project was to include a new WWTP, taking into account the future requirement of the village. Cork County Council is currently reviewing the proposal which is at planning stage (see drawing No D8 AppendixD).The WWTP is proposed but no detailed design has been executed.

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)

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.

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.

The new WWTP is at the proposal stage ,but no detailed design has been executed.

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 3 of the Waste Water Discharge (Authorisation) Regulations, 2007.

The WWTP is proposed ,but no detailed design has been executed.

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

Consent of copyright owner required for any other use.

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.

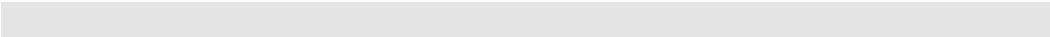
Signed by : _____
(on behalf of the organisation)

Date : _____

Print signature name: _____

Position in organisation: _____

For inspection purposes only.
Consent of copyright owner required for any other use.



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)

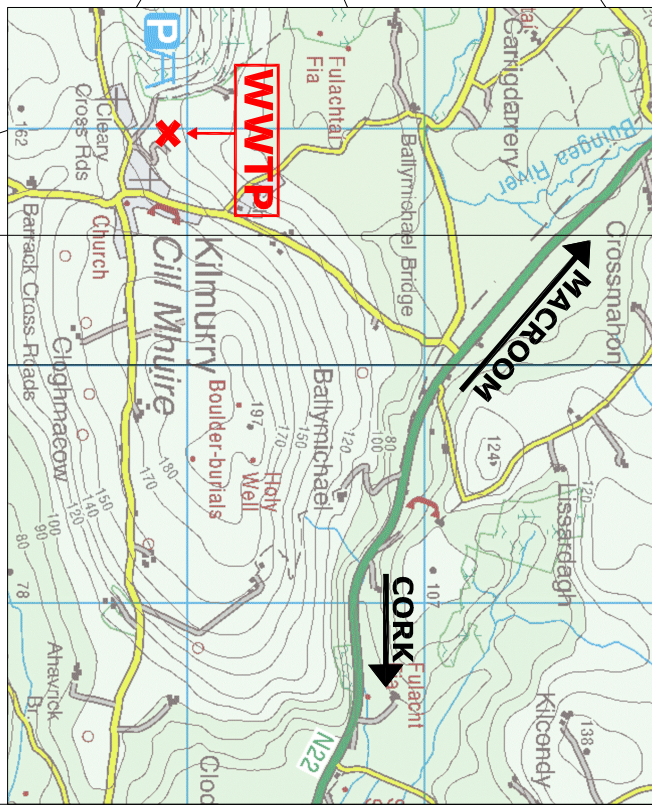
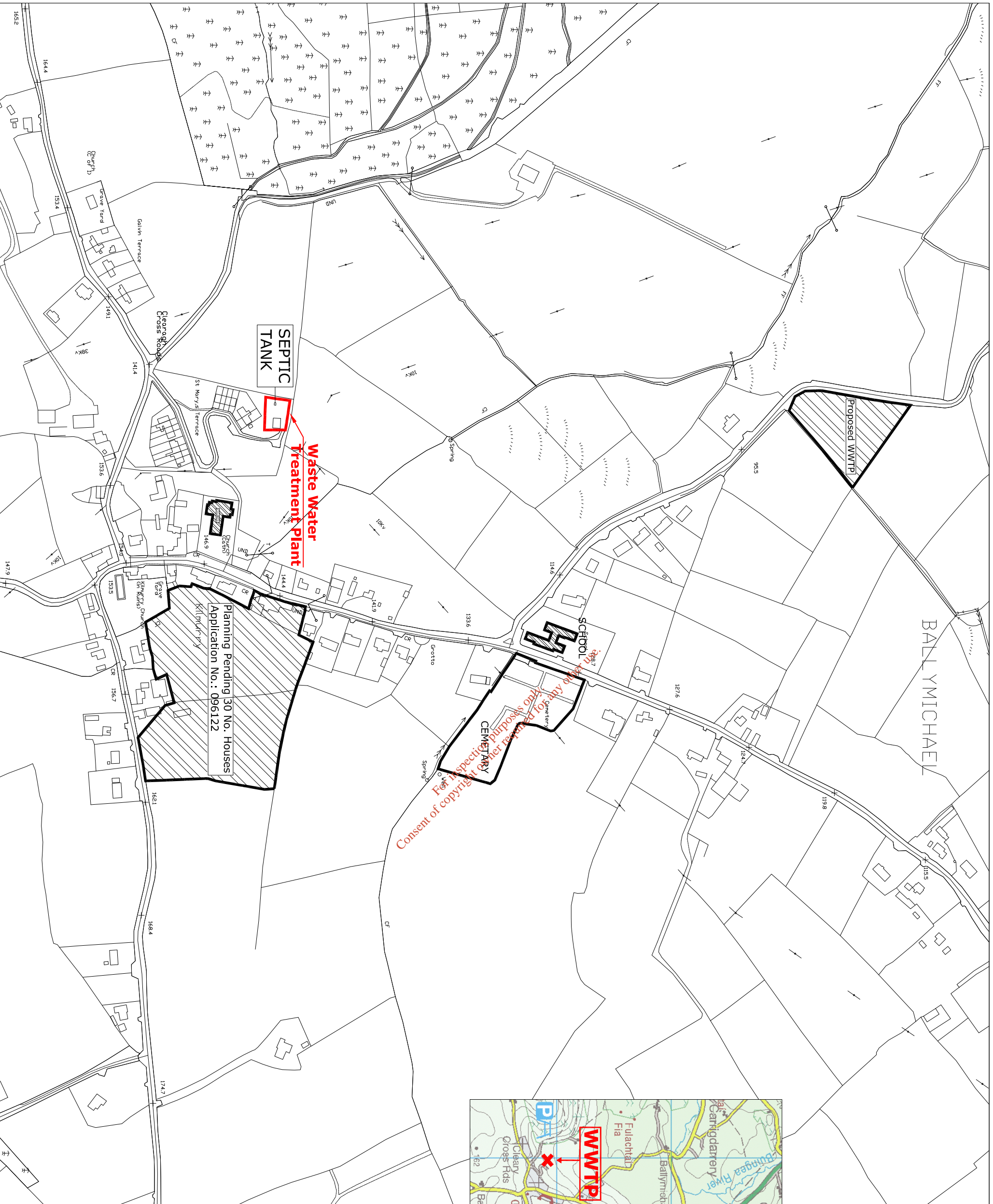
Print signature name: _____

Position in organisation: _____

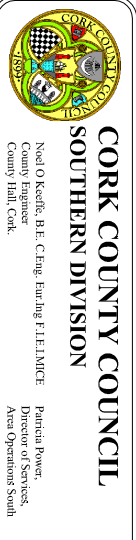
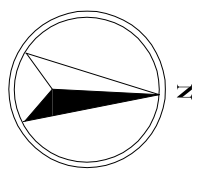
Note 1: In the case of an application being lodged on behalf of more than a single Water Services Authority the following declaration must be signed by all applicants.

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
E.2	Text	Laboratory Accreditation
E.2	Map 8	Location of Upstream and Downstream Monitoring Points
E.4	Table	Sampling data
Online Data	Table	Online Data

*For inspection purposes only.
Consent of copyright owner required for any other use.*



- NOTES:**
1. This drawing is the property of Cork County Council. It is a confidential document and must not be copied, used, or its content divulged without prior written consent.
 2. Includes Ordnance Survey Ireland data reproduced under OSI Licence number: Cork County Council/CMA 2004/07. Unauthorised reproduction infringes Ordnance Survey Ireland and Government of Ireland copyright. © Ordnance Survey Ireland, 2004.
 3. All levels refer to Ordnance Survey Datum, Malin Head.
 4. DO NOT SCALE, use figured dimensions only, if in doubt ask.



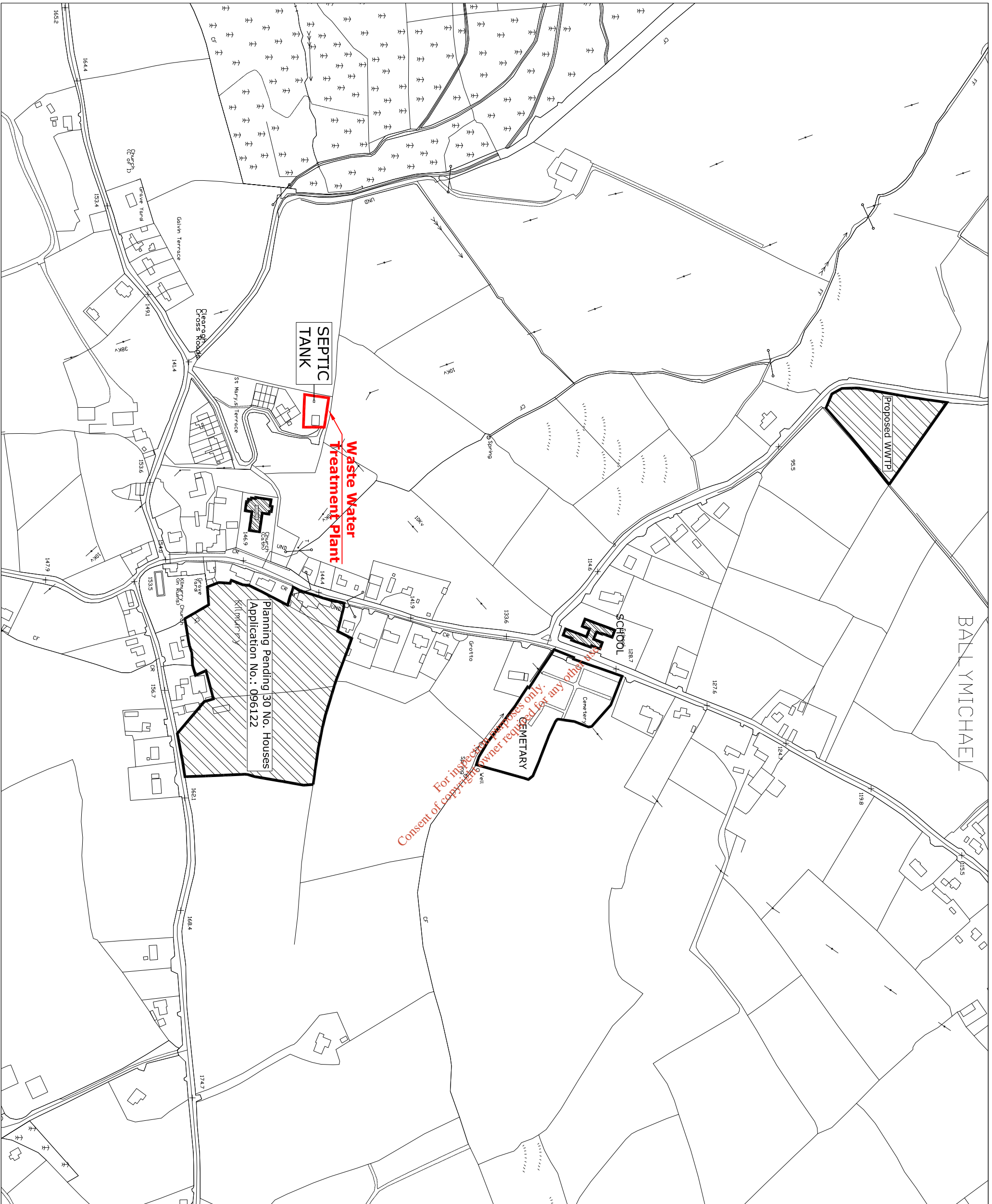
Niall O'Keefe, B.E. Chief Executive
County Engineer
County Hill, Cork.

Patricia Power,
Director of Services,
Asset Operations South

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

Title: **Application Form
Attachment A1_Map1
Location Plan of Waste Water Treatment Plant**

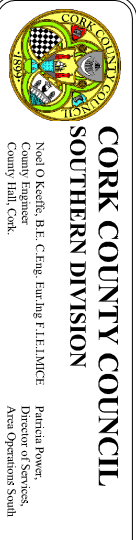
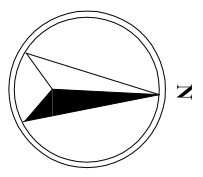
Designed: MS	Checked: MH	Scale: 1:4,000 @ A3	Drawing No: A1_Map1
Drawn: MM	Approved: MH	Date: NOV 09	Status: 0
File Path:			



BALLYMICHAEL

NOTES:

1. This drawing is the property of Cork County Council. It is a confidential document and must not be copied, used, or its content divulged without prior written consent.
2. Includes Ordnance Survey Ireland data reproduced under OSI Licence number: Cork County Council/CMA 2004/07. Unauthorised reproduction infringes Ordnance Survey Ireland and Government of Ireland copyright. © Ordnance Survey Ireland, 2004.
3. All levels refer to Ordnance Survey Datum, Malin Head.
4. DO NOT SCALE, use figured dimensions only, if in doubt ask.



CORK COUNTY COUNCIL
SOUTHERN DIVISION
Noel O Keefe, B.E. Chief Executive
County Engineer
County Hill, Cork.
Patricia Power,
Director of Services,
Area Operations South

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

Title: **Application Form
Attachment A1_Map2
Location of WWTP**

Designed: MS	Checked: MH	Scale: 1:2,000 @ A3	Drawing No: A1_Map2
Drawn: MM	Approved: MH	Date: NOV 09	Status: 0
File Path:			Rev: 0

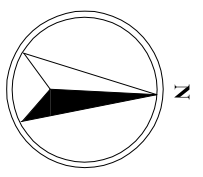
Rev	Date	By	Description




NOTES:

1. This drawing is the property of Cork County Council. It is a confidential document and must not be copied, used, or its content divulged without prior written consent.
2. Includes Ordnance Survey Ireland data reproduced under OSI Licence number: Cork County Council/CMA 2004/07. Unauthorised reproduction infringes Ordnance Survey/Ireland and Government of Ireland copyright. © Ordnance Survey Ireland, 2004.
3. All levels refer to Ordnance Survey Datum, Malin Head.
4. DO NOT SCALE, use figured dimensions only, if in doubt ask.

**AGGLOMERATION
BOUNDARY**



Rev.	Date	By	Description



CORK COUNTY COUNCIL
SOUTHERN DIVISION

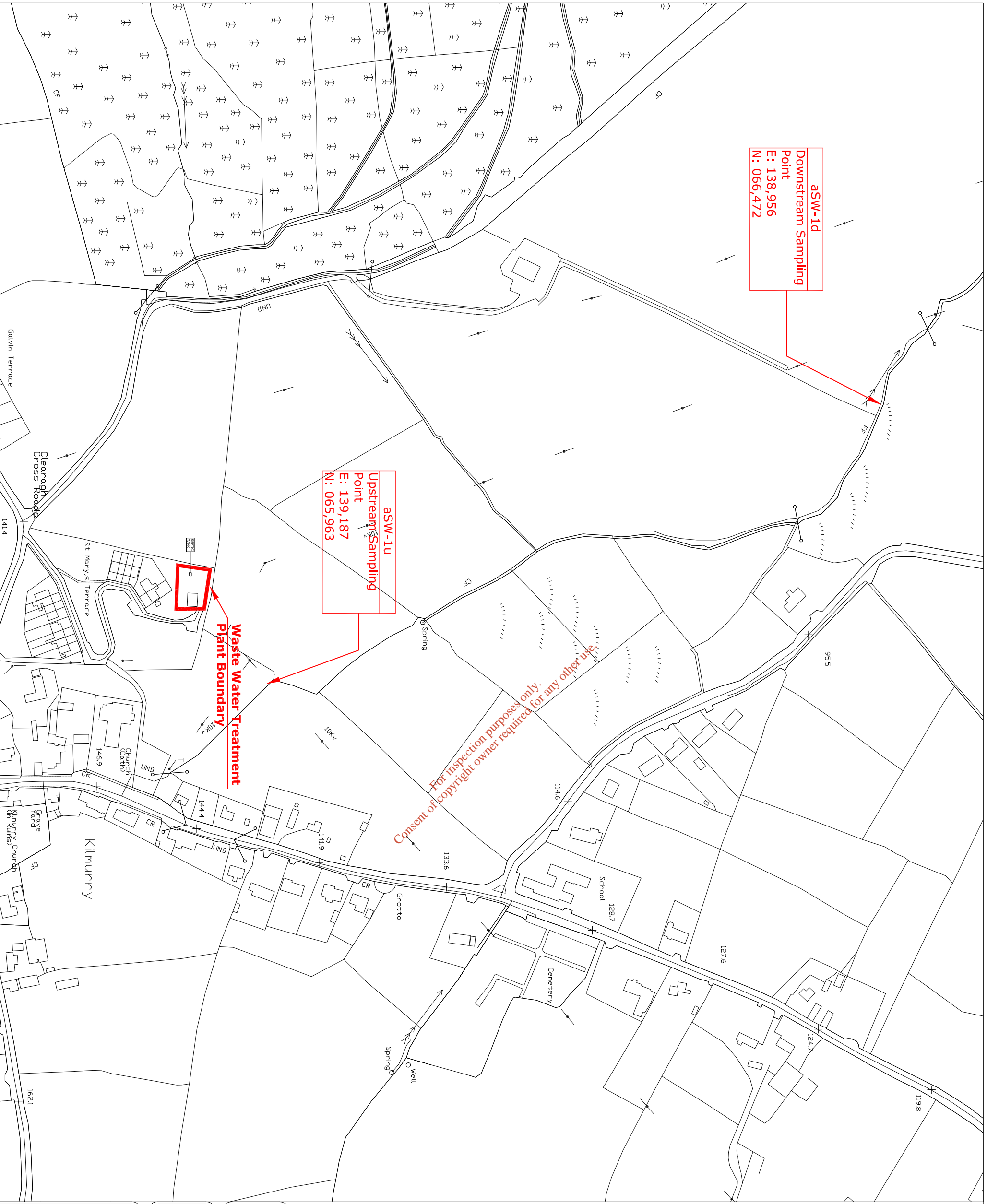
Niall O'Keefe, B.E. Chief Executive
County Hall, Cork.

Patricia Power,
Director of Services,
Area Operations South

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

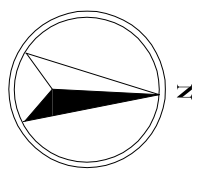

**Title: Application Form
Attachment B1_Map3
Agglomeration Boundary Served By
Waste Water Treatment Works**

Designed: MS	Checked: MH	Scale: 1:1,000 @ A3	Drawing No: B1_Map3
Drawn: MM	Approved: MH	Date: Nov 09	Status: 0
File Path:			Rev: 0



NOTES:

1. This drawing is the property of Cork County Council. It is a confidential document and must not be copied, used, or its content divulged without prior written consent.
2. Includes Ordnance Survey Ireland data reproduced under OSI Licence number: Cork County Council/CMA 2004/07. Unauthorised reproduction infringes Ordnance Survey/Ireland and Government of Ireland copyright. © Ordnance Survey Ireland, 2004.
3. All levels refer to Ordnance Survey Datum, Malin Head.
4. DO NOT SCALE, use figured dimensions only, if in doubt ask.

CORK COUNTY COUNCIL
SOUTHERN DIVISION

Noel O'Keefe, B.E. Chief Executive
County Hill, Cork.

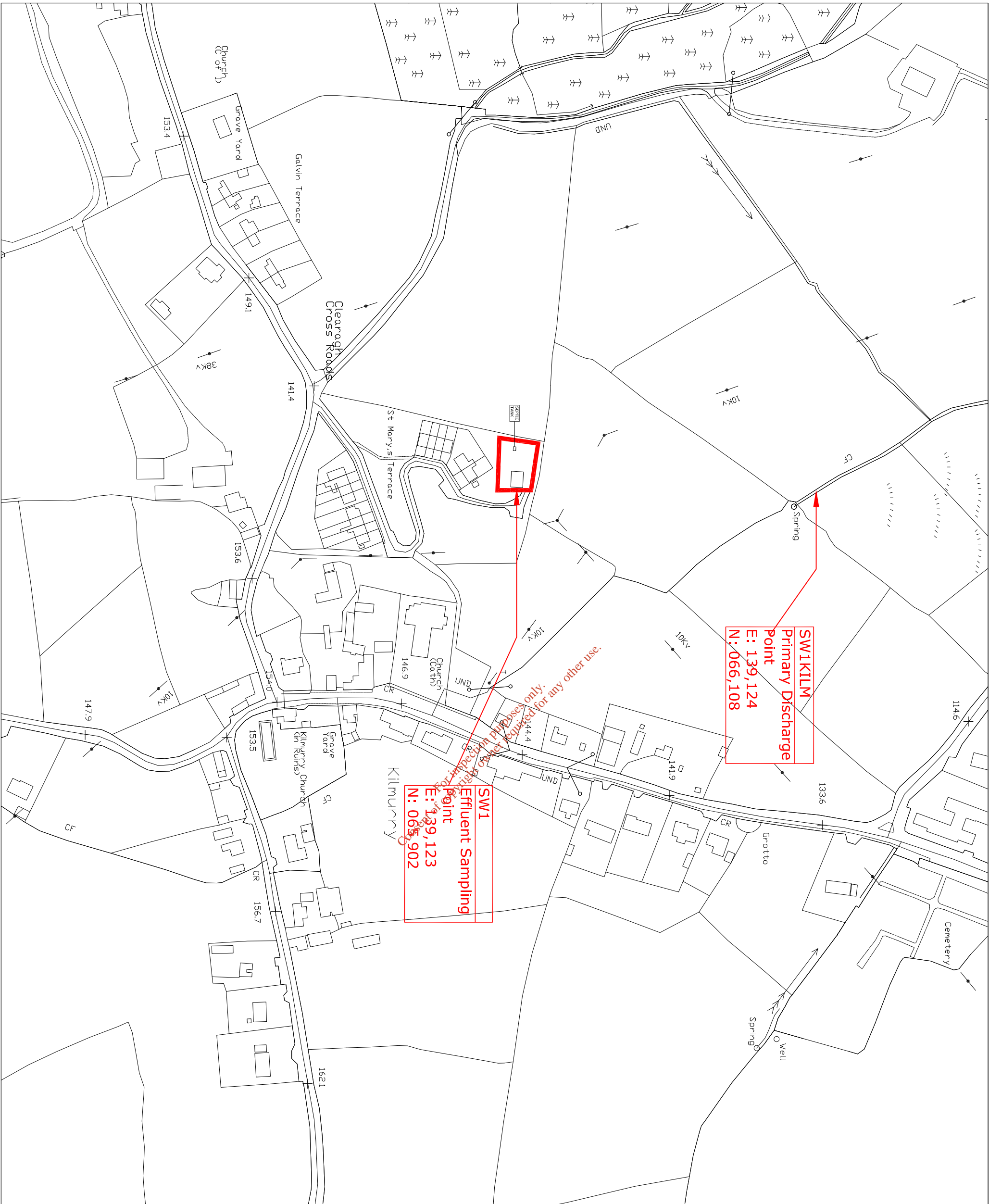
Patricia Power,
Director of Services,
Area Operations South

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

Title: **Application Form
Attachment B2_Maps
Location of Upstream & Downstream Monitoring Points**

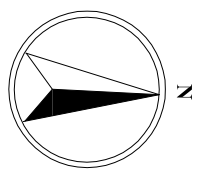
Designed: MS	Checked: MH	Scale: 1:5,000 @ A3	Drawing No: B2_Maps
Drawn: MM	Approved: MH	Date: Nov '09	Status: 0

Rev.	Date	By	Description




NOTES:

1. This drawing is the property of Cork County Council. It is a confidential document and must not be copied, used, or its content divulged without prior written consent.
2. Includes Ordnance Survey Ireland data reproduced under OSI Licence number: Cork County Council/CMA 2004/07. Unauthorised reproduction infringes Ordnance Survey/Ireland and Government of Ireland copyright. © Ordnance Survey Ireland, 2004.
3. All levels refer to Ordnance Survey Datum, Malin Head.
4. DO NOT SCALE, use figured dimensions only, if in doubt ask.



Rev.	Date	By	Description



CORK COUNTY COUNCIL
SOUTHERN DIVISION

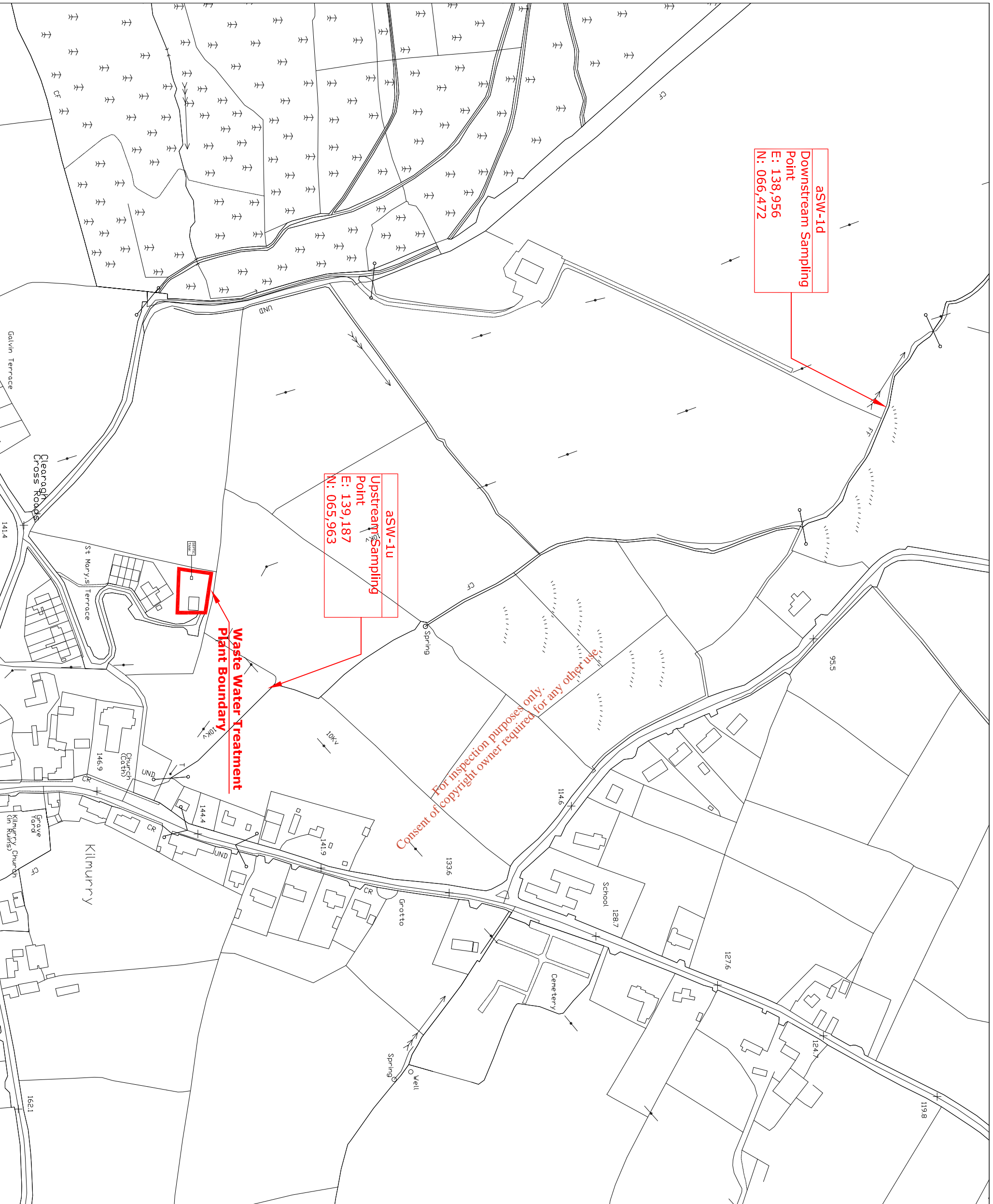
Neil O Keefe, B.E. Chief Executive
County Hill, Cork.

Patricia Power,
Director of Services,
Area Operations South

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

Title: Application Form
Attachment B3_Map6
Location of Primary Discharge Points

Designed: MS	Checked: MH	Scale: 1:2,500 @ A3	Drawing No: B3_Map6
Drawn: MM	Approved: MH	Date: Nov 09	Status: 0
File Path:			



aSW-1d
Downstream Sampling
 Point
 E: 138,956
 N: 066,472

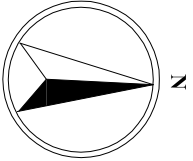
aSW-1u
Upstream Sampling
 Point
 E: 139,187
 N: 065,963

**Waste Water Treatment
 Plant Boundary**

*For inspection purposes only.
 Consent of copyright owner required for any other use.*

NOTES:

1. This drawing is the property of Cork County Council. It is a confidential document and must not be copied, used, or its content divulged without prior written consent.
2. Includes Ordnance Survey Ireland data reproduced under OSI Licence number: Cork County Council/CMA 2004/07. Unauthorised reproduction infringes Ordnance Survey Ireland and Government of Ireland copyright. © Ordnance Survey Ireland, 2004.
3. All levels refer to Ordnance Survey Datum, Malin Head.
4. DO NOT SCALE, use figured dimensions only, if in doubt ask.



CORK COUNTY COUNCIL
SOUTHERN DIVISION
 Noel O'Keefe, B.E. Chief Executive
 County Hall, Cork.
 Patricia Power, Director of Services
 Area Operations South

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

**Title: Application Form
 Attachment B3_Map7
 Location of Upstream & Downstream Monitoring Points**

Designed: MS	Checked: MH	Scale: 1:5,000 @ A3	Drawing No: B3_Map7
Drawn: MM	Approved: MH	Date: Nov 09	Status: 0

Rev.	Date	By	Description

Contact us:

Bord na Móna Environmental Ltd
Head Office
Newbridge, Co. Kildare.
Tel: **1850 381136**
Tel: 045 439000
Fax: 045 432312
E-mail: ed.info@bnm.ie
Web: www.bnm.ie

Product Range:

Commercial/Small Community Systems:

- Puraflo Multiple Module
- Puraflo Peat Filter Bed
- Puraflo Tertiary Treatment
- Moving Bed Biological Reactor (MBBR - Concrete Tank Mechanical Aeration)
- Platinum 2000 Series (GRP Package Mechanical Aeration)
- High Rate Sand Filters
- Reed Beds
- Pumping Stations
- Nutrient Removal
- Telemetry Monitoring
- Flow Metres
- Composite Sampling

Rainwater Harvesting:

- RainSava Domestic & Commercial Systems

Surface Water Treatment:

- Silt Traps
- Separators
- Storm Water Attenuation Tanks

Services:

- National Network of Agents/Installers
- Pre-Planning Site Specific Reports/Quotations
- Delivery/Installation/Commissioning
- Service Contracts
- Maintenance Call Out Service

Single House:

- Puraflo Single House
- Platinum Single House (Package Plant)
- Puraflo Tertiary Treatment
- Phosphorus Reduction



PRINTED ON 75% RECYCLED PAPER, BORD-11

For inspection purposes only. Consent of copyright owner is required for any other use.



Small Community Systems

www.bnm.ie



- Secondary Treatment
- Tertiary Treatment Option
- Flexible Modular System
- Cost Efficient and Effective
- Minimal Maintenance
- Proven Track Record
- Unique System Design
- High Treatment Efficiency

Puraflo: the Bord na Móna Environmental Sewage Treatment Solution

If you require a sewage treatment system or if you have an existing septic tank /sewage treatment plant that needs upgrading, Bord na Móna Environmental has a sewage treatment solution for you.

Why choose Bord na Móna Environmental?

- Leading designer, manufacturer and supplier of sewage treatment systems for more than 20 years.
- Supplier of reliable, sustainable, long-term solutions for on-site sewage treatment.
- Systems and treatment processes for a wide range of applications including:
 - Single houses
 - Housing developments
 - Businesses
 - Leisure centres
 - Hotels
 - Golf clubs
 - Caravan parks
 - Nursing homes
 - Schools etc.
- Customer Focused and Responsive: Customer assistance from pre-planning to project completion, warranty, service agreements, maintenance call-out service.
- International Experience: Ireland, UK, USA.

Puraflo: The System

The Puraflo Peat Bio-Filter is designed to provide effective, cost efficient, low maintenance, secondary and/or tertiary wastewater treatment.

The company's extensive experience with the Puraflo system and long-term research on the performance of the system shows extremely high treatment efficiency with significant reductions in the BOD and TSS content of wastewater and similarly high reductions in faecal coliforms and bacterial numbers.

What Our Customers Say:

Customers come to Bord na Móna Environmental for a sewage treatment system and gain the added benefit of the company's long term experience and its focus on customer service:

"I bought the Puraflo sewage treatment system as it's the best on the market and was highly recommended by our architect. Purchasing the system was very easy and staff were extremely helpful".

"Top class service re submitting a plan and installed the system on the day that was appointed. Excellent service and I have recommended your system to others".

Our Clients Include:

- Builder Contractors**
- Civil Contractors**
- Engineers**
- Architects**
- Commercial Businesses**
- Homeowners**
- Local Authorities**
- Self-Builders/Extenders & Renovators etc.**

Puraflo Multiple Module System: The modular nature of the system provides maximum design flexibility for secondary and tertiary treatment across a range of applications. Additional modules can also be added to existing Puraflo systems to provide increased capacity where required.

Puraflo Peat Filter Bed: The peat media can also be housed in site constructed retaining structures depending on site-specific requirements.

For inspection purposes only. Consent of copyright owner required for any other use.



Puraflo: Process Description

- Wastewater flows into a watertight primary/septic tank. The solids settle and the liquid effluent flows by gravity to a pump/sump chamber through an outlet filter.
- The liquid effluent is pumped intermittently to the Puraflo modules where it is dispersed evenly onto the surface of the peat fibre and percolates through the media.
- Treatment of wastewater within the system is achieved by a combination of unique physical, chemical and biological interaction between the wastewater and the fibrous peat media.
- Considerable BOD, TSS and NH3-N reductions are achieved and the system is also very effective in the elimination of enteric bacteria contained in the wastewater.
- The treated liquid emerges from the Puraflo modules and disperses into the ground through a percolation area or is collected for disposal by other methods.
- The Puraflo system is low maintenance and requires no desludging or backwashing.

Installation & Commissioning:

The Puraflo Community System is installed and commissioned by Bord na Móna Environmental Ltd.

Puraflo: The Benefits

- Simplicity of design, installation and operation.
- Secondary and/or Tertiary treatment.
- High treated effluent quality.
- Low capital and operating costs.
- Intermittent pumping to Puraflo means reduced power consumption & increased cost efficiency.
- No desludging or backwashing required.
- Flexible, modular design.
- Seasonal or intermittent use.
- Retrofits existing plants to improve effluent quality.

Warranty, Servicing & Maintenance

Bord na Móna Environmental Ltd. provide a 12 month parts and labour guarantee. The company also offers service inspection contracts designed to suit client's individual needs.

Tertiary Treatment

Further enhance the treated effluent quality with a Puraflo Tertiary Treatment option. The Puraflo system is ideally suited for tertiary treatment and can be included as part of a new treatment system or retro fitted to an existing treatment plant where a higher effluent quality is required for discharge.

Intermittent and Seasonal Use

The Bord na Móna Puraflo system is proven effective in situations of intermittent or seasonal loading. Due to the water binding properties of the peat, the media and consequently the microbial film do not dry out upon reduction or complete cessation of wastewater supply. This unique property, combined with the physical and chemical processes which take place in the peat ensure that a high level of treatment is maintained during variable loading conditions.

Optional Extras

- Pump Stations
- Nutrient Removal
- Telemetry
- Instrumentation

Performance (Secondary Treatment)

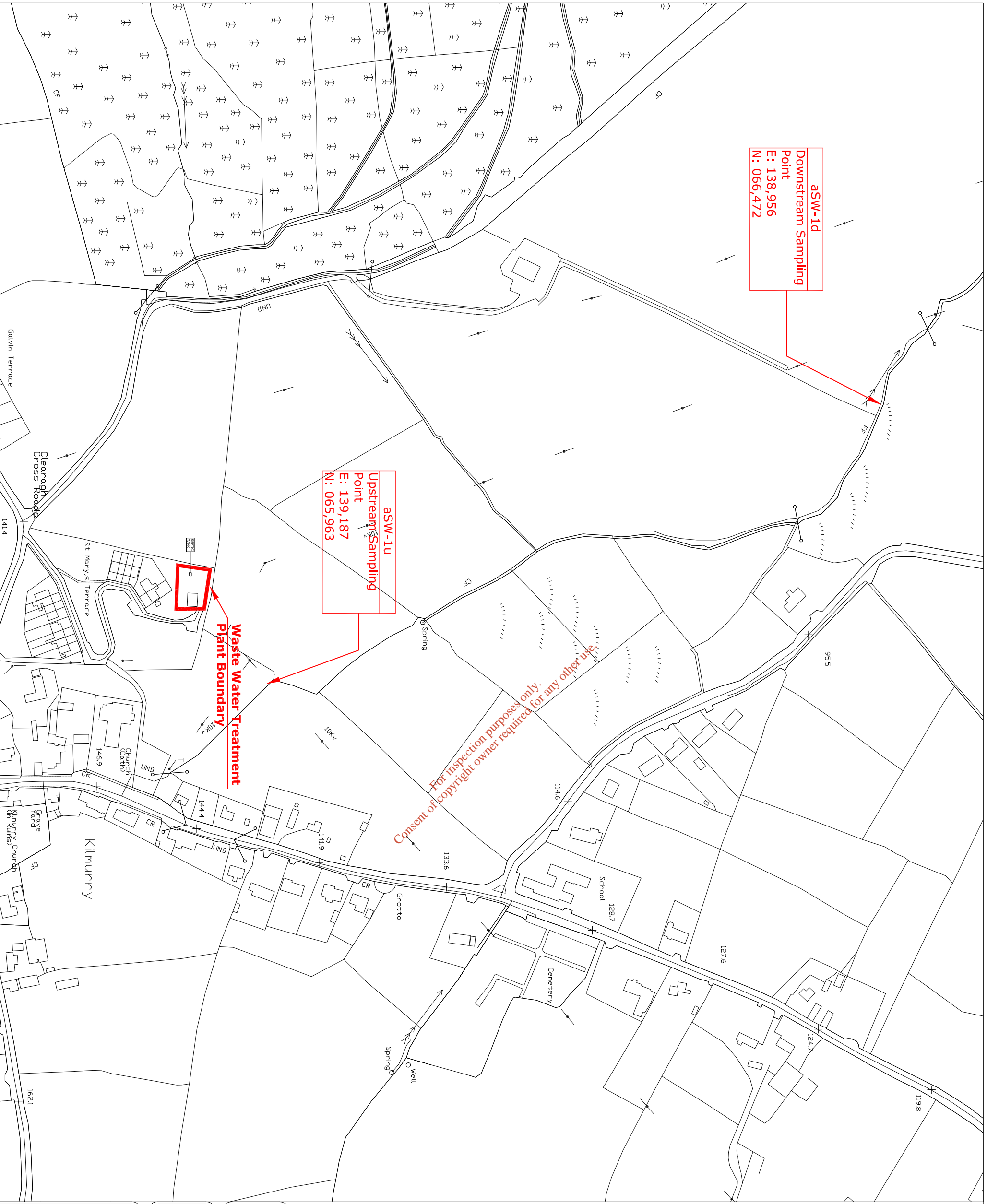
PARAMETER	INFLUENT	EFFLUENT
B.O.D (mg/l)	300	20
T.S.S. (mg/l)	200	30
NH3-N (mg/l)	30	5
Total Coliforms	1 x 10 ⁹	>99.9%
Pathogenic Bacteria **	Present	Absent

* CFU's per 100ml ** Including Salmonella, Staphylococcus and Shigella species, Pseudomonas aeruginosa and Sulphide reducing Clostridia

Puraflo System Design

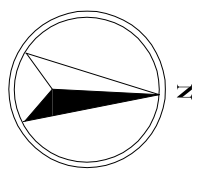

POPULATION EQUIVALENT P.E.	MAXIMUM DAILY FLOW M ³ /d	APPLIED ORGANIC LOAD Kg/d BOD	NO. OF MODULES	ASSOCIATED SEPTIC TANK
20	3.6	1.2	8	5.6
50	9	3	18	11
80	14.4	4.8	28	16.4
100	18	6	36	20
150	27	9	54	29





NOTES:

1. This drawing is the property of Cork County Council. It is a confidential document and must not be copied, used, or its content divulged without prior written consent.
2. Includes Ordnance Survey Ireland data reproduced under OSI Licence number: Cork County Council/CMA 2004/07. Unauthorised reproduction infringes Ordnance Survey Ireland and Government of Ireland copyright. © Ordnance Survey Ireland, 2004.
3. All levels refer to Ordnance Survey Datum, Malin Head.
4. DO NOT SCALE, use figured dimensions only, if in doubt ask.

CORK COUNTY COUNCIL
SOUTHERN DIVISION

Noel O'Keefe, B.E. Chief Executive
County Hill, Cork.

Patricia Power,
Director of Services,
Area Operations South

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

Title: **Application Form Attachment E2_Map8 Location of Upstream & Downstream Monitoring Points**

Designed: MS	Checked: MH	Scale: 1:5,000 @ A3	Drawing No: E2_Map8
Drawn: MM	Approved: MH	Date: Nov 09	Status: 0

Rev.	Date	By	Description

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 2nd 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: 

Mr Tom Dempsey

Chairperson: 

Dr Máire Walsh

Issued on 23 June 2008

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

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

Schedule of Accreditation



(Annex to Accreditation Certificate)

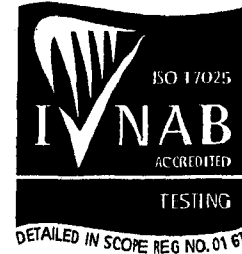
Permanent Laboratory:
Category A

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

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.

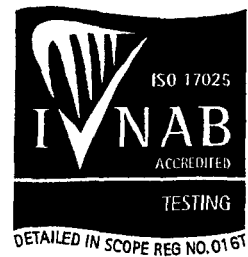
Glossary of Terms

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 testing and calibration facilities should not be used for test results, availability and certification for the Irish National Accreditation Board unless the facility is accredited by the Board under the current ISO 17025 or ISO 15189 standard. The Board should not be held responsible for any test results or certification issued by the Board.

Scope of Accreditation

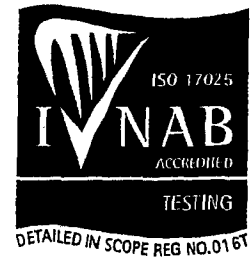


Cork County Council
Chemical Testing Laboratory

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)
.01	Waters for domestic purposes <i>Surface and ground waters</i>	Biochemical Oxygen Demand 2 - 145,000 mg/l	CP No. 1 Membrane electrode
		pH 2 - 12	CP No. 5 Electrometry
		Suspended Solids 0.5 - 17,500 mg/l	CP No. 3 Gravimetric
		Chemical Oxygen Demand 21 - 135 mg/l 120 - 670,000 mg/l	CP No. 6 Reflux - colourmetric method
		Total phosphorus 0.2 - 5,300 mg/l	US-EPA Approved method/HACH Method CP No.20
		Ammonia 0.1 - 1,000 mg/l NH ₃ - N	Documented in-house method CP22 by Konelab based on Method for the Examination of Waters and Associated Material HMSO:1981

Scope of Accreditation

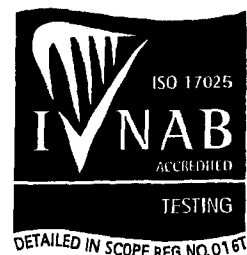


Cork County Council
Chemical Testing Laboratory

Permanent Laboratory:
Category A

INAB Classification number (P9) Materials/products tested	Type of test/properties measured Range of measurement	Standard specifications Equipment/techniques used
766 Waters .01 Waters for domestic purposes <i>Surface and ground waters</i>	<p>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</p> <p>Chloride (Konelab) Range: 25-250 mg/L Cl- High Range Conc.: 86,000 mg/L Cl- Method Detection Limit: 25 mg/L Cl-</p> <p>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</p>	<p>CP No. 23 Ascorbic Acid Method</p> <p>CP No. 24 Ferricyanide Method</p> <p>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</p>

Scope of Accreditation



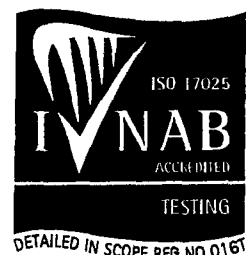
Cork County Council
Chemical Testing Laboratory

Permanent Laboratory:
 Category A

INAB Classification number (P9)	Type of test/properties measured	Standard specifications
Materials/products tested	Range of measurement	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 Industrial effluents Urban Wastewater Municipal Wastewater	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, 21st 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
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 Industrial effluents Urban Wastewater Municipal Wastewater	Orthophosphate as P (Konelab) Range: 0.005 - 1.00 mg O-PO4 P/L High Range: 1000 mg O-PO4 P/L Method Detection Limit: 0.02 mg O-PO4 P/L Chloride (Konelab) Range: 25-250 mg/L Cl- High Range Conc.: 86,600 mg /L Cl- Method Detection Limit: 25mg / 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. 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, 21st Edition

Attachment E4 Kilmurry Table E4

Sample Date	17/11/2009	17/11/2009	17/11/2009	17/11/2009
Sample	Influent	Effluent	Upstream	Downstream
Sample Code	GT1378	GT1377	GT1379	GT1380
Flow M ³ /Day	*	*	*	*
pH	7.3	7.0	7.6	7.6
Temperature °C	*	*	*	*
Conductivity uS/cm 20°C	501	569	177	118
Suspended Solids mg/L	47	129	4	6
Ammonia-N mg/L	22.2	1.6	<0.1	<0.1
BOD mg/L	100	9	<1	<1
COD mg/L	204	69	24	<21
TN-N mg/L	32.36	23.61	2.6	2.42
Nitrite-N mg/L	<0.1	0.36	<0.1	<0.1
Nitrate-N mg/L	<0.5	17.64	1.63	1.54
TP-P mg/L	2.93	2.81	0.139	0.138
O-PO4-P mg/L	2.2	3.06	0.09	0.09
SO4 mg/L	<30	<30	<30	<30
Phenols µg/L	*	<0.10	*	<0.10
Atrazine µg/L	*	<0.010	*	<0.010
Dichloromethane µg/L	*	<1	*	<1
Simazine µg/L	*	<0.010	*	<0.010
Toluene µg/L	*	<0.28	*	<0.28
Tributyltin µg/L	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED
Xylenes µg/L	*	<0.73	*	<1
Arsenic µg/L	*	0.4	*	0.5
Chromium ug/L	<20	<20	<20	<20
Copper ug/L	102	<20	<20	<20
Cyanide µg/L	*	<5	*	<5
Fluoride µg/L	26	25	26	26
Lead ug/L	<20	<20	<20	<20
Nickel ug/L	<20	<20	<20	<20
Zinc ug/L	<20	21.6	36.2	<20
Boron ug/L	<20	<20	<20	<20
Cadmium ug/L	<20	<20	<20	<20
Mercury µg/L	*	<0.03	*	<0.03
Selenium µg/L	*	<2.12	*	3
Barium ug/L	63.7	63.6	<20	29.1

For inspection purposes only. Consent of copyright owner required for any other use.

WWD Licence Application
THIS APPLICATION HAS NOT BEEN SUBMITTED

Agglomeration details

Leading Local Authority	Cork County Council
Co-Applicants	
Agglomeration	Kilmurry
Population Equivalent	42
Level of Treatment	Secondary
Treatment plant address	kilmurry , County Cork
Grid Ref (12 digits, 6E, 6N)	139117 / 065902
EPA Reference No:	

Contact details

Contact Name:	Patricia Power
Contact Address:	Water Services Section Cork County Council Southern Division Carrigrohane Road Cork
Contact Number:	021-4276891
Contact Fax:	021-4276321
Contact Email:	patricia.power@corkcoco.ie

For internal purposes only. Consent of copyright holder required for any other use.

THIS APPLICATION HAS NOT BEEN SUBMITTED

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

Discharge Point Code: SW-1

Local Authority Ref No:	SW1KILM	
Source of Emission:	SECONDARY	
Location:	KILMURRY	
Grid Ref (12 digits, 6E, 6N)	139117 / 065902	
Name of Receiving waters:	BUINGEA RIVER	
Water Body:	River Water Body	
River Basin District	South Western RBD	
Designation of Receiving Waters:	NONE	
Flow Rate in Receiving Waters:	0.5668	m ³ .sec ⁻¹ Dry Weather Flow
	0.02	m ³ .sec ⁻¹ 95% Weather Flow
Additional Comments (e.g. commentary on zero flow or other information deemed of value)		

Emission Details:

(i) Volume emitted			
Normal/day	9.45 m ³	Maximum/day	28.35 m ³
Maximum rate/hour	1.18 m ³	Period of emission (avg)	60 min/hr 24 hr/day 365 day/yr
Dry Weather Flow	0.00011 m ³ /sec		

Consent of copyright owner required for any other use.
For internal purposes only.

WWD Licence Application Annex I
THIS APPLICATION HAS NOT BEEN SUBMITTED

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

Discharge Point Code: SW-1

Substance	As discharged			
	Unit of Measurement	Sampling Method	Max Daily Avg.	kg/day
pH	pH	Grab	= 9	
Temperature	°C	Grab	= 25	
Electrical Conductivity (@ 25°C)	µS/cm	Grab	= 1000	
Suspended Solids	mg/l	Grab	= 250	7.1
Ammonia (as N)	mg/l	Grab	= 3	0.0861
Biochemical Oxygen Demand	mg/l	Grab	= 25	0.708
Chemical Oxygen Demand	mg/l	Grab	= 125	3.525
Total Nitrogen (as N)	mg/l	Grab	= 50	0.423
Nitrite (as N)	mg/l	Grab	= 1	0.028
Nitrate (as N)	mg/l	Grab	= 35	1.008
Total Phosphorous (as P)	mg/l	Grab	= 5	0.144
OrthoPhosphate (as P)	mg/l	Grab	= 6	0.1728
Sulphate (SO ₄)	mg/l	Grab	< 30	0.864
Phenols (Sum)	µg/l	Grab	< 0.01	0.00028

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

For inspection purposes only.
 Consent of copyright owner required for any other use.

WWD Licence Application Annex I
THIS APPLICATION HAS NOT BEEN SUBMITTED

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

Discharge Point Code: SW-1

Substance	As discharged			
	Unit of Measurement	Sampling Method	Max Daily Avg.	kg/day
Atrazine	µg/l	Grab	< 0.01	0.00028
Dichloromethane	µg/l	Grab	< 1	0.028
Simazine	µg/l	Grab	< 0.01	0.00028
Toluene	µg/l	Grab	< 0.28	0.00784
Tributyltin	µg/l	Grab	< 0	0
Xylenes	µg/l	Grab	< 0.73	0.02
Arsenic	µg/l	Grab	= 1	0.028
Chromium	µg/l	Grab	< 20	0.56
Copper	µg/l	Grab	< 20	0.56
Cyanide	µg/l	Grab	< 5	0.14
Flouride	µg/l	Grab	= 50	1.4
Lead	µg/l	Grab	< 20	0.56
Nickel	µg/l	Grab	< 20	0.56
Zinc	µg/l	Grab	= 42	1.176
Boron	µg/l	Grab	< 20	0.56
Cadmium	µg/l	Grab	< 20	0.56
Mercury	µg/l	Grab	< 0.03	0.00084
Selenium	µg/l	Grab	< 2.12	3.68
Barium	µg/l	Grab	= 127	3.556

For Orthophosphate: this monitoring should be undertaken on a sample filtered on 0.45µm filter paper

For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

Consent of copyright owner required for any other use.

THIS APPLICATION HAS NOT BEEN SUBMITTED

TABLE E.1(i): WASTE WATER FREQUENCY AND QUANTITY OF DISCHARGE – Primary and Secondary Discharge Points

Identification Code for Discharge point	Frequency of discharge (days/annum)	Quantity of Waste Water Discharged (m ³ /annum)
SW-1	365	3449.249999999

For inspection purposes only.
Consent of copyright owner required for any other use.

WWD Licence Application Annex I
THIS APPLICATION HAS NOT BEEN SUBMITTED

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

Identification Code for Discharge point	Frequency of discharge (days/annum)	Quantity of Waste Water Discharged (m ³ /annum)	Complies with Definition of Storm Water Overflow
---	-------------------------------------	--	--

*For inspection purposes only.
Consent of copyright owner required for any other use.*

WWD Licence Application Annex I
THIS APPLICATION HAS NOT BEEN SUBMITTED

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

Primary Discharge Point

Discharge Point Code:	SW-1
MONITORING POINT CODE:	aSW-1d
Grid Ref (12 digits, 6E, 6N)	138956 / 066472

Parameter	Results (mg/l)			Sampling method	Limit of Quantitation	Analysis method / technique
	01/01/09	17/11/09				
pH		= 7.6		Grab	2	Electrochemical
Temperature	= 0			Grab	0.5	Electrochemical
Electrical Conductivity (@ °C)		= 118		Grab	0.5	Electrochemical
Suspended Solids		= 6		Grab	0.5	Gravimetric
Ammonia (as N)		< 0.1		Grab	0.02	Colorimetric
Biochemical Oxygen Demand		< 1		Grab	0.06	Electrochemical
Chemical Oxygen Demand		< 21		Grab	8	Digestion & Colorimetric
Dissolved Oxygen	= 0			Grab	0.2	ISE
Hardness (as CaCO ₃)	= 0			Grab	1	Titrimetric
Total Nitrogen (as N)		= 2.42		Grab	0.5	Digestion & Colorimetric
Nitrite (as N)		< 0.1		Grab	0.1	Colorimetric
Nitrate (as N)		= 1.54		Grab	0.5	Colorimetric
Total Phosphorous (as P)		= 0.138		Grab	0.2	Digestion & Colorimetric
OrthoPhosphate (as P)		= 0.09		Grab	0.02	Colorimetric
Sulphate (SO ₄)		< 30		Grab	30	Turbidimetric
Phenols (Sum)		< 0.1		Grab	0.1	GC-MS2

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

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

WWD Licence Application Annex I
THIS APPLICATION HAS NOT BEEN SUBMITTED

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

Primary Discharge Point

Discharge Point Code:	SW-1
MONITORING POINT CODE:	aSW-1d
Grid Ref (12 digits, 6E, 6N)	138956 / 066472

Parameter	Results (µg/l)			Sampling method	Limit of Quantitation	Analysis method / technique
	01/01/09	17/11/09				
Atrazine		< 0.1		Grab	0.96	HPLC
Dichloromethane		< 1		Grab	1	GC-MS1
Simazine		< 0.1		Grab	0.01	HPLC
Toluene		< 0.28		Grab	0.02	GC-MS1
Butyltin	= 0			Grab	0.02	GC-MS1
Xylenes		< 1		Grab	1	GC-MS1
Arsenic		= 0.5		Grab	0.96	ICP-MS
Chromium		< 20		Grab	20	ICP-OES
Copper		< 20		Grab	20	ICP-OES
Cyanide		< 5		Grab	5	Colorimetric
Flouride		= 26		Grab	100	ISE
Lead		< 20		Grab	20	ICP-OES
Nickel		< 20		Grab	20	ICP-OES
Zinc		< 20		Grab	20	ICP-OES
Boron		< 20		Grab	20	ICP-OES
Cadmium		< 20		Grab	20	ICP-OES
Mercury		< 0.03		Grab	0.2	ICP-MS
Selenium		= 3		Grab	0.74	ICP-MS
Barium		= 29		Grab	20	ICP-OES

For inspection purposes only. Consent of copyright owner required for any other use.

Additional Comments:	TBT value is 0.02ug/l as Sn default of 01/01/09 and 0 where results are not available, TBT testing not required
----------------------	--

WWD Licence Application Annex I
THIS APPLICATION HAS NOT BEEN SUBMITTED

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

Primary Discharge Point

Discharge Point Code:	SW-1
MONITORING POINT CODE:	aSW-1u
Grid Ref (12 digits, 6E, 6N)	139187 / 065963

Parameter	Results (mg/l)			Sampling method	Limit of Quantitation	Analysis method / technique
	01/01/09	17/11/09				
pH		= 7.6		Grab	2	Electrochemical
Temperature	= 0			Grab	0.5	Electrochemical
Electrical Conductivity (@ 25°C)		= 177		Grab	0.5	Electrochemical
Suspended Solids		= 4		Grab	0.5	Gravimetric
Ammonia (as N)		< 0.1		Grab	0.02	Colorimetric
Biochemical Oxygen Demand		< 1		Grab	0.06	Electrochemical
Chemical Oxygen Demand		= 24		Grab	8	Digestion & Colorimetric
Dissolved Oxygen	= 0			Grab	0.2	ISE
Hardness (as CaCO ₃)	= 0			Grab	1	titrimetric
Total Nitrogen (as N)		= 2.6		Grab	0.5	Digestion & Colorimetric
Nitrite (as N)		< 0.1		Grab	0.1	Colorimetric
Nitrate (as N)		= 1.63		Grab	0.5	Colorimetric
Total Phosphorous (as P)		= 0.139		Grab	0.2	Digestion & Colorimetric
OrthoPhosphate (as P)		= 0.09		Grab	0.02	Colorimetric
Sulphate (SO ₄)		< 30		Grab	30	Turbidimetric
Phenols (Sum)	= 0			Grab	1	GC-MS2

For inspection purposes only. Copyright of copyright owner required for any other use.

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

Additional Comments:	Default of 01/01/09 and 0 where results are not available
----------------------	---

WWD Licence Application Annex I
THIS APPLICATION HAS NOT BEEN SUBMITTED

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

Primary Discharge Point

Discharge Point Code:	SW-1
MONITORING POINT CODE:	aSW-1u
Grid Ref (12 digits, 6E, 6N)	139187 / 065963

Parameter	Results (µg/l)			Sampling method	Limit of Quantitation	Analysis method / technique
	01/01/09	17/11/09				
Atrazine	= 0			Grab	0.96	HPLC
Dichloromethane	= 0			Grab	1	GC-MS1
Simazine	= 0			Grab	0.01	HPLC
Toluene	= 0			Grab	0.02	GC-MS1
ibutyltin	= 0			Grab	0.02	GC-MS1
Xylenes	= 0			Grab	1	GC-MS1
Arsenic	= 0			Grab	0.96	ICP-MS
Chromium		< 20		Grab	20	ICP-OES
Copper		< 20		Grab	20	ICP-OES
Cyanide	= 0			Grab	5	Colorimetric
Flouride		= 26		Grab	100	ISE
Lead		< 20		Grab	20	ICP-OES
Nickel		< 20		Grab	20	ICP-OES
Zinc		= 36.2		Grab	20	ICP-OES
Boron		< 20		Grab	20	ICP-OES
Cadmium		< 20		Grab	20	ICP-OES
Mercury	= 0			Grab	0.2	ICP-MS
Selenium	= 0			Grab	0.74	ICP-MS
Barium		< 20		Grab	20	ICP-OES

For inspection purposes only. Consent of copyright owner required for any other use.

Additional Comments:	TBT value is 0.02ug/l as Sn default of 01/01/09 and 0 where no results are available, TBT testing not required
----------------------	---

WWD Licence Application Annex II
THIS APPLICATION HAS NOT BEEN SUBMITTED

Annex 2: Check List For Regulation 16 Compliance

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

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

Regulation 16(1) In the case of an application for a waste water discharge licence, the application shall -		Attachment Number	Checked by Applicant
(a)	give the name, address, telefax number (if any) and telephone number of the applicant (and, if different, of the operator of any treatment plant concerned) and the address to which correspondence relating to the application should be sent and, if the operator is a body corporate, the address of its registered office or principal office,		
(b)	give the name of the water services authority in whose functional area the relevant waste water discharge takes place or is to take place, if different from that of the applicant,		
(c)	give the location or postal address (including where appropriate, the name of the townland or townlands) and the National Grid reference of the location of the waste water treatment plant and/or the waste water discharge point or points to which the application relates,		
(d)	state the population equivalent of the agglomeration to which the application relates,		
(e)	specify the content and extent of the waste water discharge, the level of treatment provided, if any, and the flow and type of discharge,		
(f)	give details of the receiving water body, including its protected area status, if any, and details of any sensitive areas or protected areas or both in the vicinity of the discharge point or points likely to be affected by the discharge concerned, and for discharges to ground provide details of groundwater protection schemes in place for the receiving water body and all associated hydrogeological and geological assessments related to the receiving water environment in the vicinity of the discharge.		
(g)	identify monitoring and sampling points and indicate proposed arrangements for the monitoring of discharges and, if Regulation 17 does not apply, provide details of the likely environmental consequences of any such discharges,		
(h)	in the case of an existing waste water treatment plant, specify the sampling data pertaining to the discharge based on the samples taken in the 12 months preceding the making of the application,		
(i)	describe the existing or proposed measures, including emergency procedures, to prevent unintended waste water discharges and to minimise the impact on the environment of any such discharges,		
(j)	give particulars of the nearest downstream drinking water abstraction point or points to the discharge point or points,		
(k)	give details, and an assessment of the effects, of any existing or proposed emissions on the environment, including any environmental medium other than those into which the emissions are, or are to be made, and of proposed measures to prevent or eliminate or, where that is not practicable, to limit any pollution caused in such discharges,		
(l)	give detail of compliance with relevant monitoring requirements and treatment standards contained in any applicable Council Directives of Regulations,		
(m)	give details of any work necessary to meet relevant effluent discharge standards and a timeframe and schedule for such work.		
(n)	Any other information as may be stipulated by the Agency.		
Regulation 16(3) Without prejudice to Regulation 16 (1) and (2), an application for a licence shall be accompanied by -		Attachment Number	Checked by Applicant
(a)	a copy of the notice of intention to make an application given pursuant to Regulation 9,		
(b)	where appropriate, a copy of the notice given to a relevant water services authority under Regulation 13,		
(c)	Such other particulars, drawings, maps, reports and supporting documentation as are necessary to identify and describe, as appropriate -		
(c) (i)	the point or points, including storm water overflows, from which a discharge or discharges take place or are to take place, and		
(c) (ii)	the point or points at which monitoring and sampling are undertaken or are to be undertaken,		
(d)	such fee as is appropriate having regard to the provisions of Regulations 38 and 39.		

WWD Licence Application Annex II
THIS APPLICATION HAS NOT BEEN SUBMITTED

Regulation 16(4) An original application shall be accompanied by 2 copies of it and of all accompanying documents and particulars as required under Regulation 16(3) in hardcopy or in an electronic or other format as specified by the Agency.		Attachment Number	Checked by Applicant
1	An Original Application shall be accompanied by 2 copies of it and of all accompanying documents and particulars as required under regulation 16(3) in hardcopy or in electronic or other format as specified by the agency.		
Regulation 16(5) For the purpose of paragraph (4), all or part of the 2 copies of the said application and associated documents and particulars may, with the agreement of the Agency, be submitted in an electronic or other format specified by the Agency.		Attachment Number	Checked by Applicant
1	Signed original.		
2	2 hardcopies of application provided or 2 CD versions of application (PDF files) provided.		
3	1 CD of geo-referenced digital files provided.		
Regulation 17 Where a treatment plant associated with the relevant waste water works is or has been subject to the European Communities (Environmental Impact Assessment) Regulations 1989 to 2001, in addition to compliance with the requirements of Regulation 16, an application in respect of the relevant discharge shall be accompanied by a copy of an environmental impact statement and approval in accordance with the Act of 2000 in respect of the said development and may be submitted in an electronic or other format specified by the Agency		Attachment Number	Checked by Applicant
3	2 CD versions of EIS, as PDF files, provided.		
1	EIA provided if applicable		
	2 hardcopies of EIS provided if applicable.		
Regulation 24 In the case of an application for a waste water discharge certificate of authorisation, the application shall –		Attachment Number	Checked by Applicant
(a)	give the name, address, telefax number (if any) and telephone number of the applicant and the address to which correspondence relating to the application should be sent and, if the operator of the waste water works is a body corporate, the address of its registered office or principal office		
(b)	give the name of the water services authority in whose functional area the relevant waste water discharge takes place or is to take place, if different from that of the applicant,		
(c)	give the location or postal address (including where appropriate, the name of the townland or townlands) and the National Grid reference of the location of the discharge point or points to which the application relates,		
(d)	state the population equivalent of the agglomeration to which the application relates,		
(e)	in the case of an application for the review of a certificate, specify the reference number given to the relevant certificate in the register,		
(f)	specify the content and extent of the waste water discharge, the level of treatment provided and the flow and type of discharge,		
(g)	give details of the receiving water body, its protected area status, if any, and details of any sensitive areas or protected areas, or both, in the vicinity of the discharge point or points or likely to be affected by the discharge concerned,		
(h)	identify monitoring and sampling points and indicate proposed arrangements for the monitoring of discharges and of the likely environmental consequences of any such discharges,		
(i)	in the case of an existing discharge, specify the sampling data pertaining to the discharge based on the samples taken in the 12 months preceding the making of the application,		
(j)	describe the existing or proposed measures, including emergency procedures, to prevent unauthorised or unexpected waste water discharges and to minimise the impact on the environment of any such discharges,		
(k)	give particulars of the location of the nearest downstream drinking water abstraction point or points to the discharge point or points associated with the waste water works,		
(l)	give details of any designation under any Council Directive or Regulations that apply in relation to the receiving waters,		
(m)	give details of compliance with any applicable monitoring requirements and treatment standards,		
(n)	give details of any work necessary to meet relevant effluent discharge standards and a timeframe and schedule for such work,		
(o)	give any other information as may be stipulated by the Agency, and		
(p)	be accompanied by such fee as is appropriate having regard to the provisions of Regulations 38 and 39.		