COMHAIRLE CHONTAE MHUINEACHÁIN
MONAGHAN COUNTY COUNCIL

Oifigí Contae,
An Gleann,
Muineachán.

Guthán: 047 - 30500

County Offices,
The Glen,
Monaghan.

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Community & Enterprise (047) 38140

Environment (047) 30592/30593

Finance (047) 30589

Fire/Building Control (047) 30521

Higher Education Grants (047) 30550

Housing Construction (047) 30529

Housing Loans/Grants (047) 30527

Human Resource Management (047) 30586

Motor Taxation (047) 81175

Planning (047) 30532

Register of Electors (047) 30547

Roads (047) 30597

Water Services (047) 30504

6th November 2008

Environmental Protection Agency
PO Box 3000
Johnstown Castle Estate
Co. Wexford

RE: APPLICATION FOR A WASTE WATER DISCHARGE LICENCE FOR CASTLEBLAYNEY/BALLYBAY/CLONES WASTE WATER TREATMENT WORKS

Dear Sirs,

Please find enclosed all documentation pertaining to the application by Monaghan county council for a Waste Water Discharge Licence for the Waste Water Treatment Works serving the agglomeration of CASTLEBLAYNEY/BALLYBAY/CLONES and Environs.

The application fee of €25,000 was submitted to your good selves on the 26th September 2008 by electronic fund transfer.

I wish to confirm that the electronic files on the accompanying CD-ROM are a true copy of the original application form.

If you require any further information or clarification of the documentation submitted, please do not hesitate to contact us, as Monaghan County Council will gladly be of assistance.

Yours Sincerely

Mark Johnston
Water Services
Monaghan County Council

This is a draft document and is subject to revision.

Waste Water Discharge Licence Application Form

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

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

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

CONTENTS

ABOUT THIS APPLICATION FORM

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

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

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

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

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

PROCEDURES

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

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

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

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

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

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

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

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

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

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

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

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

SECTION A: NON-TECHNICAL SUMMARY

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

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

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

A description of:

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

Supporting information should form **Attachment Nº A.1**

NON-TECHNICAL SUMMARY

1. The waste water works and the activities carried out

Introduction

1.1 Summary of Wastewater Treatment Plant Units

Clones is a small town in the west of County Monaghan, close to the border with County Fermanagh. It has a current residential population of approximately 3,082. The town serves as a retail and service centre to the agricultural community in the surrounding hinterland. The drainage catchment in Clones includes the main urban area and also extends outwards to service ribbon development along roads leading into the town. The area of the current drainage catchment is circa 123ha.

Clones Wastewater treatment works at Legarhill was built in the 1960's and has since been upgraded in the 1980's. The plant provides secondary treatment with primary settlement and a percolating filter system preceded by course screening. The plant discharges treated effluent to a tributary of the River Finn.

The waste water treatment plant is managed on a part time basis by a technician and operated by a caretaker. There is no SCADA or remote monitoring of the plant in place.

1.2 Description of Waste water treatment process

The plant consists of the following main components:

Preliminary Treatment

- Inlet pumping station with coarse screening
- No. storm tanks with return to inlet pumping station

Primary Treatment

- Primary settlement tanks – 2No. Imhoff tanks
- No. percolating filters

Secondary Treatment

- 1 No. humus tank

Administration and control building

Preliminary Treatment

Incoming waste water from the Clones sewerage scheme gravitates to the preliminary treatment system. This comprises of a manually raked coarse

screen (30mm aperture). The screenings are stored temporarily on site prior to disposal at Scotch corner landfill.

Downstream of the preliminary treatment system flows gravitate to a pumping station with foul and storm pumps. The sump in this station has an overflow weir which allows incoming waste water to overflow to an adjoining storm water sump when the capacity of the main foul pumps has been exceeded. Under normal operating conditions only the duty foul pumps pump waste forward for treatment at a maximum rate of 28 L/s. At higher flows a second foul pump forwards wastewater to the treatment plant. During storm conditions the storm pumps convey waste water forward to the stormwater tanks. The stormwater is returned by gravity tot eh wet well. There is an overflow from the storm tanks to the outfall. The combined pumping capacity under these conditions is approximately 92L/s. When incoming flow rates exceed this, waste water is allowed to build up the screening chamber and inlet sewers.

The total flow into the WWTW is measured electromagnetically at the plant inlet downstream of the preliminary treatment system, and the discharge is measured in a venture flume at the outlet. In addition, automatic samplers are provided at the WWTW to sample the influent the effluent at the plant.

Primary Treatment

Primary treatment comprises of two horizontal flow Imhoff tanks operating in parallel and fitted with chain scraper mechanisms, which scrap primary sludge to the hoppers located at the inlet end of the tanks. Settled sewage gravitates via a dosing siphon to the secondary treatment system, while settled sludge gravitates directly to the reed beds.

Following primary treatment, flows up to 28L/s (2.2DWF) gravitate to a flow splitting chamber. This chamber incorporates adjustable plate weirs which allow flows to be accurately split to the secondary treatment system.

Sludge is removed from the primary settlement tanks by tanker.

Secondary Treatment

Secondary treatment is carried out in a conventional percolating filter system. The percolating filter system consists of two circular trickling filters which operate in parallel and are fitted with randomly packed stone media. The filters have a media bed volume of 2,080m3. Flow from the percolating filter system gravitates to a secondary settlement tank (Humus tank).

The secondary settlement tank is 7m square hopper bottomed tank (not fitted with cleaning mechanism). Settled sludge from the humus tank is returned to

the Inlet Pump sump, on a daily basis by manually adjusting the sludge return penstock, for onward pumping to the Imhoff tanks. Sludge is removed from the Imhoff tanks by tanker

Treated effluent, which overflows from the secondary settlement tank, gravitates to an on site chamber. From there the flow gravitates to the outfall in the tributary of the River Finn.

2.0 The sources of emissions from the waste water works

Primary Discharge (PSW1) – Effluent Outfall

The treated effluent from the existing wastewater treatment plant discharges into a small stream (tributary of the River Finn) approximately 3m to the south of the works. The discharge consists of a stepped cascade. This is used to increase the DO concentration prior to entering the stream. Refer to drawing 04, attachment B2.

Storm Water Overflows (SW2) – Inlet Pump Station

This storm water overflow is located at the WWTW inlet pumping station. The overflow consists of a 150mm diameter pipe discharging to a small stream (tributary of the River Finn) approximately 8m from the pumping station.

Storm Water Overflows (SW3) – Manhole 55301

This overflow is located on a 300mm diameter concrete combined sewer at the wastewater treatment plant off Scothouse Road. Excess flow discharges to a nearby watercourse via an unscreened high level 300 mm pipeline. These excess flows are ultimately discharged to the River Finn.

It was noted, in consultation with local operations staff, that flooding occurred upstream of the overflow occurred as a result of the overflow level set higher than the ground level of manholes on the Newtownbutler Road sewer.

Storm Water Overflows (SW4) – 98 Avenue Pump Station

This storm water overflow is located at the 98 Avenue pumping station. The overflow consists of a 150mm diameter pipe discharging to a small stream (tributary of the River Finn) approximately 52m from the pumping station.

Existing Sewerage Network Overview

Clones catchment is drained by a combination of gravity sewers and four pumping stations to the wastewater treatment plant, with final effluent discharging into a tributary of the River Finn. The network is largely combined

and only recent developments have separate foul and storm systems. No combined sewer overflows were located during the pre-site survey for the Flow and Rainfall Contract. The existing system was last upgraded in the 1960's and there are significant hydraulic and structural problems in the network. Separation of the storm component was completed in specific problem areas within the town.

3.0 The nature and quantities of emissions from the waste water works into the receiving aqueous environment

The existing plant has a design capacity of 4,500pe and a design effluent quality (to the primary discharge point) as follows;

Parameter	Concentration
BOD_5 (mg/L)	25
Total Suspended Solids (mg/L)	35
COD (mg/L)	125
Total Nitrogen (mg/L N)	20
Total Phosphorus (mg/L P)	2.0

Phosphorus removal and outfall to the river Finn are recommended in the draft preliminary report for Clones, Castleblayney and Ballybay sewerage schemes. This will provide for compliance with the Phosphorus Regulations (SI258 of 1998) and provide a greater waste assimilative capacity.

4.0 Identification of significant effects of the emissions on the environment

The only significant emission from the wastewater treatment plant is the effluent to the stream. The effect of this has been examined in terms of the waste assimilative capacity of the stream and the River Finn in terms of BOD5, suspended solids, phosphorus, ammonia and oxidised nitrogen. The current effluent limits are within the waste assimilative capacity of the river. Therefore, there are not considered to be any significant effects on the environment.

5.0 The proposed technology and other techniques for preventing or reducing emissions/pollution from the waste water works

The existing Clones Wastewater Treatment Plant is well maintained. There have been some recent improvements. However, it is an old plant, built originally in the 1960's and upgraded in the 1980's, and consequently it requires an upgrade in order to improve the current plant condition and treatment levels and reduce

the overflow of untreated effluent during storm conditions in addition to providing the capacity for a phase one population estimate of 7,000. Therefore the following is to be provided in the upgrade works:

Stormwater Tank: a stormwater tank with 2 hours capacity for overflows at peak flows (8 DWF) is required. A new storm tank with cleaning facilities should be provided. The required tank capacity will be the peak hourly flow minus the peak flow to full treatment for two hours, i.e. (8 -3) x 18.2 (DWF (l/s)) x 3.6 x 2 = 655m^3.

Inlet Works: A new inlet works with automatic screening and grit removal will be required.

Secondary Treatment: Two main process options are available; conventional activated sludge and sequencing batch reactors (SBR's).

Aeration Tanks: It is recommended a diffused air aeration system with air blowers be provided.

Settlement Tanks: The recommended upflow rate for a settlement tank 1.00 m^3/ m^2/hr and the recommended retention time is 2 hours.

Sludge Return / Sludge Waste: A sludge drawoff chamber and sludge return and sludge waste pumping station is required as part of the conventional activated sludge process. The sludge return rate is normally up to 1.5 DWF and the sludge waste pump at a maximum rate of 0.5 DWF.

Nutrient Reduction: A chemical dosing facility for phosphorus removal should be provided.

Sludge Treatment: A picket fence thickener will be required for storage and thickening of waste activated sludge on the site prior to dewatering. The tank should be sized to store four days sludge at 1% dry solids. The quantity of sludge produced will be approximately 75g/h/d including chemical sludges, i.e. (75 x 5000 / 1000) kg/day = 525 kg/day

Other facilities to be provided under Phase 1 include the following:

- New administration and control building
- Inlet / air blower building
- Sludge dewatering building
- Odour control plant
- Site cable ducts and pipework
- New main and sludge dewatering control panels
- Final effluent pumping station and outfall rising main
- New telemetry and SCADA system

6.0 Measures planned to monitor emissions into the environment

Flowmeters are provided at the wastewater treatment plant to monitor the process and the emissions to the environment. The flowmeters and process instrumentation provided are as follows:

i) Electromagnetic flowmeter at inlet chamber
ii) Venturi flume at effluent outlet
iii) Automatic influent sampler
iv) Automatic efffluent sampler

Monaghan County Council currently carry out monthly monitoring of the final effluent from the wastewater treatment plant in addition to ongoing monitoring carried out in the River Finn to monitor the water quality. No additional monitoring is considered necessary to monitor emissions to the environment.

SECTION B: GENERAL

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

B.1 Agglomeration Details

Name of Agglomeration:	Clones Waste Water Treatment Works

Applicant's Details

Name and Address for Correspondence

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

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

Name*:	Monaghan County Council
Address:	County Offices
	The Glen
	Monaghan
Tel:	074 30500
Fax:	047 82739
e-mail:	info@monaghancoco.ie

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

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

Name*:	Mr Mark Johnston
Address:	County Offices
	The Glen
	Monaghan
Tel:	047 30500
Fax:	047 82739
e-mail:	mjohnston@monaghancoco.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
	Not Applicable
	Not Applicable
	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 (authorisation) licence application.

Design, Build & Operate Contractor Details

Name*:	Not Applicable
Address:	Not Applicable
	Not Applicable
	Not Applicable
	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 (≤A3) of the agglomeration served by the waste water works showing the boundary clearly marked in red ink. These drawings / maps should also be provided as geo-referenced digital drawing files (e.g., ESRI Shapefile, MapInfo Tab, AutoCAD or other upon agreement) in Irish National Grid Projection. These drawings should be provided to the Agency on a separate CD-Rom containing sections B.2, B.3, B.4, B.5, C.1, D.2, E.3 and F.2.

Attachment included	Yes	No
	✓	

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

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

Name*:	Anthony Murphy
Address:	Clones Waste Water Treatment Works
	Scotshouse Road
	Clones
	Co. Monaghan
Grid ref (6E, 6N)	E205603, N325330
Level of Treatment	Primary and Secondary
Primary Telephone:	087 20669126
Fax:	Not Applicable
e-mail:	Not Applicable

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

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

Attachment included	Yes	No
	✓	

B.3 Location of Primary Discharge Point

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

Type of Discharge	Stepped Cascade outlet
Unique Point Code	PSW1
Location	Discharge is to a tributary of the river Finn, approx 3m to the south of the works.
Grid ref (6E, 6N)	E250580, N325303

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

Attachment included	**Yes**	**No**
	✓	

B.4 Location of Secondary Discharge Point(s)

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

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

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

Attachment included	**Yes**	**No**
		✓

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

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

Type of Discharge	Open discharge to local stream (tributary of the River Finn)
Unique Point Code	SW2
Location	From WWTW Inlet Pump Station to local stream (tributary of the River Finn)
Grid ref (6E, 6N)	E250562, N325312

Type of Discharge	Open discharge via 300mm diameter pipe
Unique Point Code	SW3
Location	From manhole 55301to local stream (tributary of the River Finn) – this is the last manhole prior to the inlet works
Grid ref (6E, 6N)	E250510 N325336

Type of Discharge	Open discharge
Unique Point Code	SW4
Location	From 98 Avenue Pump station to local stream (tributary of the River Finn)
Grid ref (6E, 6N)	E250356, N325962

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

Attachment included	**Yes**	**No**
	✓	

B.6 Planning Authority

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

Name:	Planning Department
Address:	County Offices
	The Glen

	Monaghan
Tel:	047 30500
Fax:	047 82739
e-mail:	info@monaghancoco.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***	✓

Local Authority Planning File Reference Nº:	*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**
		✓

B.7 Other Authorities

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

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

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

Within the SFADCo Area	**Yes**	**No**
		✓

B.7 (ii) Health Services Executive Region

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

Name:	Health Services Executive Dublin North Eastern Area
Address:	Dublin Road
	Kells
	Co. Meath
Tel:	046 9280500
Fax:	0469241459
e-mail:	info@hse.ie

B.7 (iii) Other Relevant Water Services Authorities

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

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

Relevant Authority Notified	**Yes**	**No**
		✓

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

Attachment included	**Yes**	**No**
		✓

B.8 Notices and Advertisements

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

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

Attachment included	**Yes**	**No**
	✓	

B.9 (i) Population Equivalent of Agglomeration

TABLE B.9.1 POPULATION EQUIVALENT OF AGGLOMERATION

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

Population Equivalent	**3,082**
Data Compiled (Year)	**2008**
Method	**Census Data, GeoDirectory, Flow and Load Data**

In estimating domestic population projections for Clones it will be necessary to consider the following:

- General trends from the 2006 Census Report.
- Statutory Development Plans for Monaghan County Council with particular reference to Land Use Zoning Maps.

The recorded population for the Clones catchment from the 2006 Census Report is 1,517. This figure is made up from a population of 995 within the urban center and 522 in its suburbs and environs.

In order to assess the accuracy of this population figure a count of all houses in the existing catchment was carried out using Geo-Directory data. An analysis of the most current Geo-Directory data available does not suggest reasonable correlation with the population figure of 1,517 outlined above. Currently, approximately 966 residential properties exist within the catchment region of which 44 are vacant. Using a household occupancy of 2.66 (2006 rate for towns in County Monaghan) this amounts to a current population of 2,453. This discrepancy may be explained by varying population trends in the town which have shown a net decrease over the past decade of 21.0%.

This decrease would alter occupancy rates in the town and result in over estimating the current population.

The domestic population growth rate and population projections for this scheme will be examined for a 25 year horizon as follows:

As the population in Clones town has been in decline over the past decade (-21.0%) it has been assumed that the population projection to 2015 will remain at current levels. Current and 2015 projected loadings are detailed below:

Component	Current PE	Projected PE
	2008	2015
Domestic	1,517	2400
Industrial	969	1000
Commercial / Institutional	596	800
Total	**3,082**	**4200**

B.9 (ii) Pending Development

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

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

The table below details the planning permissions, granted to date, that have not commenced or have not yet been connected to the main network. This table was compiled in conjunction with Monaghan County Council Planners.

A county average of 2.66 person per household was used to calculate the related additional PE. (Census 2006)

Please note: in the current economic climate and the fact that the population of Clones has steadily decreased by 21% since 1996 it is highly probable that not all the housing permissions applied for will be realised.

CLONES PLANNING PERMISSIONS (PRESENT - 2015)				
File No.	**Development Address**	**Description**	**Additional Housing**	**Additional PE**
71	Millbrook, Clones, Co Monaghan,	to demolish existing dwelling house, sheds, commercial unit and agricultural buildings and construct 97 no. houses, 30 no. apartments and a creche	127	338
8	Millbrook, Clones	21 two-storey dwelling houses	21	56
	Roslea Rd	Up to 360 dwellings (Planning permission only in preliminary stages - Not Decided as of date of writing)	90	239
420	The Diamond, Clones, Co Monaghan	To extend existing commercial building and adjoining dwelling with change of use of dwelling to residential units/apartments, extension on basement, ground floor, first and second floors comprising 10 pin bowling, games and ancillary facilities on ground floor and basement levels, restaurant and kitchen with take-away facilities on ground floor with extension to shop to comprise store and office facilities 3 No. apartments on first floor and 3 No. apartments on second floor together with alterations to existing apartments and existing dwelling on first and second floors, comprising 3 No bed-sits and 1 No. apartment on first floor and 3 No. bed-sits on 1 No. apartment on second floor together with alterations to elevations, associated works and connection to existing services	12	32
69	Monaghan St/Edify St, Clones, Co. Monaghan	Permission for mixed development of 81 no. one and two bedroom apartments, 15 no. shop/retail/commercial units, with basement car parking, loading areas, landscaping, footbridges, entrances and connection to existing services	106	282
411	Analore Street, Clones, Co Monaghan	To demolish existing dwelling house and garage and shed and erect 43 No. dwelling houses with associated site road and provision of retaining walls within the site.	43	114

65	Liseggerton, Clones, Co Monaghan	To construct 29 dwelling houses, develop vehicular/pedestrian entrance onto public roadway, provide new on site service roads, turning areas, car parking spaces, public open space, landscaping and connect to all existing public services and all ancillary site works	29	77
41079	Liseggerton , Clones, , Co. Monaghan.	To construct up to 80 dwellings	80	213
		Additional individual apartments + houses not catered for above	6	16
				1367

As can be seen below, an approximate estimate for the plant loading in 2015 (the life span of this licence) is 4,449P.E. As the plant is currently designed to cater for over 4,500P.E. it will be able to accommodate the extra hydraulic and organic loading without posing an environmental risk to the receiving water habitat. As noted above, in the current economic climate and the steady population decline in Clones it is doubtful that the total 'Pending PE' will be realised.

Clones WWTW			
Source	**Existing P.E.**	**Pending P.E.**	**Projected P.E. increase to 2015 (no change)**
Domestic	1,517	1367	1,517
Industrial	969		969
Commercial/Institutional	596		596
Sub-Total	**3,082**	**1367**	**3082**
Total (Existing+Pending+Projected)			**4,449**

B.9 (iii) FEES

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

Class of waste water discharge	**Fee (in €)**
	€25,000.00

Please see attachment B.9(iii) for confirmation letter.

Appropriate Fee Included	**Yes**	**No**
	✓	

B.10 Capital Investment Programme

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

In the 2007-2009 Water Services Investment Programme, €12,000,000 was provisionally committed to the Castleblayney/Ballybay/Clones Wastewater

Treatment Plants. To date a Preliminary report has been compiled and submitted to the Department of Environment, Heritage and Local Government. A final decision and approval for funding has yet to be taken. As stated on the investment programme, these schemes will not commence in 2008.

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

Attachment included	Yes	No
	✓	

B.11 Significant Correspondence

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

As per attachment B11, there has been 1no. section 63 noticed issued to Monaghan County Council in relation to Clones WWTW.

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

Attachment included	Yes	No
	✓	

B.12 Foreshore Act Licences.

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

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

Attachment included	Yes	No
		✓

SECTION C: INFRASTRUCTURE & OPERATION

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

C.1 Operational Information Requirements

Provide a description of the plant, process and design capacity for the areas of the waste water works where discharges occur, to include a copy of such plans, drawings or maps, (site plans and location maps, process flow diagrams), and such

other particulars, reports and supporting documentation as are necessary to describe all aspects of the area of the waste water works discharging to the aquatic environment. Maps and drawings must be no larger than A3 size.

C.1.1 Storm Water Overflows

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

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

C.1.2 Pumping Stations

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

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

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

Attachment included	**Yes**	**No**
	✓	

C.2 Outfall Design and Construction

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

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

Attachment included	**Yes**	**No**
	✓	

SECTION D: DISCHARGES TO THE AQUATIC ENVIRONMENT

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

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

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

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

D.1 Discharges to Surface Waters

Details of all discharges of waste water from the agglomeration should be supplied via the following web based link: http://78.137.160.73/epa_wwd_licensing/. Tables D.1(i)(a), (b) & (c), should be completed for the primary discharge point from the agglomeration and Tables D.1(ii)(a), (b) & (c) should be completed for **each** secondary discharge point, where relevant. Table D.1(iii)(a) should be completed for **each** storm water overflow. Individual Tables must be completed for each discharge point.

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

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

Attachment included	Yes	No
	✓	

D.2 Tabular Data on Discharge Points

Applicants should submit the following information for each discharge point:

Table D.2:

PT_CD	PT_TYPE	LA_NAME	RWB_TYPE	RWB_NAME	DESIGNATION	EASTING	NORTHING
Point Code Provide label ID's	Point Type (e.g., Primary/ Secondary/ Storm Water Overflow)	Local Authority Name (e.g., Donegal County Council)	Receiving Water Body Type (e.g., River, Lake, Groundwater, Transitional, Coastal)	Receiving Water Body Name (e.g., River Suir)	Protected Area Type (e.g., SAC, candidate SAC, NHA, SPA etc.)	6E-digit GPS Irish National Grid Reference	6N-digit GPS Irish National Grid Reference
PSW1	Primary Discharge Point	Monaghan County Council	River	River Finn	N/A	250580	325303
SW2	Stormwater Overflow	Monaghan County Council	River	River Finn	N/A	250562	325312
SW3	Stormwater Overflow	Monaghan County Council	River	River Finn	N/A	250510	325336
SW4	Stormwater Overflow	Monaghan County Council	River	River Finn	N/A	250356	325962

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

SECTION E: MONITORING

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

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

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

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

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

E.2. Monitoring and Sampling Points

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

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

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

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

Attachment included	Yes	No
	✓	

E.3. Tabular data on Monitoring and Sampling Points

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

PT_CD	PT_TYPE	MON_TYPE	EASTING	NORTHING	VERIFIED
Point Code Provide label ID's assigned in section E of application	Point Type (e.g., Primary, Secondary, Storm Water Overflow)	Monitoring Type M = Monitoring S = Sampling	6E-digit GPS Irish National Grid Reference	6N-digit GPS Irish National Grid Reference	Y = GPS used N = GPS not used
aSW1u	Primary - Upstream	S	250537	325320	Y
aSW1d	Primary - downstream	S	250680	325269	Y
ESW1	Effluent	S	250581	325303	Y
ISW1	Influent	S	250581	325308	Y

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

E.4 Sampling Data

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

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

Attachment E.4 should contain any supporting information.

Attachment included	Yes	No
	✓	

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

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

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

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

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

- Give summary details and an assessment of the impacts of any existing or proposed emissions on the environment, including environmental media other than those into which the emissions are to be made.

- Details of all monitoring of the receiving water should be supplied via the following web based link: http://78.137.160.73/epa_wwd_licensing/. Tables F.1(i)(a) & (b) should be completed for the primary discharge point. Surface water monitoring locations upstream and downstream of the discharge point shall be screened for those substances listed in Tables F.1(i)(a) & (b). Monitoring of surface water shall be carried out at not less than two points, one upstream from the discharge location and one downstream.

- For discharges from secondary discharge points Tables F.1(ii)(a) & (b) should be completed. Furthermore, provide summary details and an assessment of the impacts of any existing or proposed emissions on the surface water or ground (aquifers, soils, sub-soils and rock environment), including any impact on environmental media other than those into which the emissions are to be made.

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

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

- Provide a statement as to whether or not emissions of main polluting substances (as defined in the *Dangerous Substances Regulations S.I. No. 12 of 2001*) to water are likely to impair the environment.

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

- Indicate whether or not emissions from the agglomeration or any plant, methods, processes, operating procedures or other factors which affect such emissions are likely to have a significant effect on –

  (a) a site (until the adoption, in respect of the site, of a decision by the European Commission under Article 21 of Council Directive 92/43/EEC for the purposes of the third paragraph of Article 4(2) of that Directive) —

    (i) notified for the purposes of Regulation 4 of the Natural Habitats Regulations, subject to any amendments made to it by virtue of Regulation 5 of those Regulations,

    (ii) details of which have been transmitted to the Commission in accordance with Regulation 5(4) of the Natural Habitats Regulations, or

    (iii) added by virtue of Regulation 6 of the Natural Habitats Regulations to the list transmitted to the Commission in accordance with Regulation 5(4) of those Regulations,

  (b) a site adopted by the European Commission as a site of Community importance for the purposes of Article 4(2) of Council Directive 92/43/EEC[1] in accordance with the procedures laid down in Article 21 of that Directive,

  (c) a special area of conservation within the meaning of the Natural Habitats Regulations, or

  (d) an area classified pursuant to Article 4(1) or 4(2) of Council Directive 79/409/EEC[2];

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

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

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

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

Attachment included	**Yes**	**No**
	✓	

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

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

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

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

There are no water abstraction points downstream of the Clones WWTW.

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

Attachment F.2 should contain any supporting information.

SECTION G: PROGRAMMES OF IMPROVEMENTS

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

G.1 Compliance with Council Directives

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

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

There is currently no timetable for any capital works however, recommendations have been made in the preliminary report which has been submitted for approval.

As stated in the national Urban Waste Water Study, Clones Catchment Report, section 4.4.3 Meeting the Standards; "Clones WWTP currently provides an adequate level of waste water treatment for compliance with the Urban Waste Water Treatment Regulations (S.I. No. 254 of 2001), i.e. secondary treatment for discharges to freshwaters from pe >2,000 by 31st December 2005."

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

Attachment included	**Yes**	**No**
		✓

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

Provide details on a programme of improvements, including any water quality management plans or catchment management plans in place, to ensure that improvements of water quality required under the Water Quality Standards for Phosphorous Regulations (S.I. No. 258 of 1998) are being achieved. Provide details of any specific measures adopted for waste water works specified in

Phosphorus Measures Implementation reports and the progress to date of those measures. Provide details highlighting any waste water works that have been identified as the principal sources of pollution under the P regulations.

As stated in the national Urban Waste Water Study, Clones Catchment Report, section 4.4.3 Meeting the Standards; "Clones WWTP currently provides an adequate level of waste water treatment for compliance with the Urban Waste Water Treatment Regulations (S.I. No. 254 of 2001), i.e. secondary treatment for discharges to freshwaters from pe >2,000 by 31st December 2005. However, Clones WWTP currently does not comply with the requirements of these regulations in terms of the quality of effluent being discharged and is considered to have inadequate capacity to achieve these standards. The receiving waters are not classified as sensitive and therefore nutrient reduction is not required under these regulations. As the required discharge standards are not being met at present, modifications to the treatment systems at the WWTP are now necessary. Upgrading work at the plant will need to ensure that future discharges meet the required standards while operating at satisfactory margins of safety.

To comply with the requirements of the Local Government (Water Pollution) Act 1977 (Water Quality Standards for Phosphorus) Regulations 1998, it is essential that the phosphate load being discharged into the tributary of the River Finn is not increased beyond current levels. The Phosphorus Measures Report prepared by Monaghan County Council has recommended phosphorus reduction to be provided at Clones WWTP."

There are currently no plans/timetable for any capital works however, recommendations have been made in the preliminary report which has been submitted for approval.

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

Attachment included	Yes	No
		✓

G.3 Impact Mitigation

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

As per section B11, a section 63 notice issued to Monaghan County Council regarding discharges from Clones WWTW and network has been dealt with and is considered to be resolved. Although there are no currently plans/timetable for capital works recommendations have been made in the preliminary report which has been submitted for approval.

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

Attachment included	Yes	No
		✓

G.4 Storm Water Overflow

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

As per section B11, a section 63 notice issued to Monaghan County Council regarding discharges from Clones WWTW and network has been dealt with and is considered to be resolved. Although there are no currently plans/timetable for capital works recommendations have been made in the preliminary report which has been submitted for approval.

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
		✓

SECTION H: DECLARATION

Declaration

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

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

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

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

Signed by : _____ **Date :** 6/11/08
(on behalf of the organisation)

Print signature name: MARK JOHNSTON

Position in organisation: SENIOR EXECUTIVE ENGINEER

Agglomeration details

Leading Local Authority	Monaghan County Council
Co-Applicants	
Agglomeration	Clones Wastewater Treatment Works
Population Equivalent	3082
Level of Treatment	Preliminary, Secondary
Treatment plant address	Clones Wastewater Treatment Works Scotshouse Road Clones Co. Monaghan
Grid Ref (12 digits, 6E, 6N)	250603 / 325330
EPA Reference No:	

Contact details

Contact Name:	Mr. Mark Johnston
Contact Address:	County Offices The Glen Monaghan
Contact Number:	047 30500
Contact Fax:	047 82739
Contact Email:	mjohnston@monaghancoco.ie

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

Discharge Point Code: SW-1

Local Authority Ref No:		
Source of Emission:	Clones Waste Water Treatment Works	
Location:	Scotshouse Road, Clones, Co. Monaghan	
Grid Ref (12 digits, 6E, 6N)	250580 / 325303	
Name of Receiving waters:	River Finn	
River Basin District	North Eastern RBD	
Designation of Receiving Waters:	Not Applicable	
Flow Rate in Receiving Waters:	0.5132	$m^3.sec^{-1}$ Dry Weather Flow
	0.02714	$m^3.sec^{-1}$ 95% Weather Flow

Emission Details:

(i) Volume emitted			
Normal/day	1500 m^3	Maximum/day	2000 m^3
Maximum rate/hour	125 m^3	Period of emission (avg)	60 min/hr 24 hr/day 365 day/yr
Dry Weather Flow	0.00803 m^3/sec		

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	24 hr flow proportional	=7.6	
Temperature	°C	24 hr flow proportional	=14.2	
Electrical Conductivity (@ 25°C)	µS/cm	24 hr flow proportional	=958	
Suspended Solids	mg/l	24 hr flow proportional	=16	24
Ammonia (as N)	mg/l	24 hr flow proportional	<0.09	0.14
Biochemical Oxygen Demand	mg/l	24 hr flow proportional	=11	0.02
Chemical Oxygen Demand	mg/l	24 hr flow proportional	=39	58.5
Total Nitrogen (as N)	mg/l	24 hr flow proportional	=10.6	15.9
Nitrite (as N)	mg/l	24 hr flow proportional	=0.524	0.79
Nitrate (as N)	mg/l	24 hr flow proportional	=6.16	9.24
Total Phosphorous (as P)	mg/l	24 hr flow proportional	=3.387	5.08
OrthoPhosphate (as P)	mg/l	24 hr flow proportional	=3.305	4.96
Sulphate (SO_4)	mg/l	24 hr flow proportional	=53.67	80.51
Phenols (Sum)	µg/l	24 hr flow proportional	<0.1	0

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

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	24 hr flow proportional	<0.01	0
Dichloromethane	µg/l	24 hr flow proportional	=530.447	0.35
Simazine	µg/l	24 hr flow proportional	<0.01	0
Toluene	µg/l	24 hr flow proportional	<1	0
Tributyltin	µg/l	24 hr flow proportional	<0.02	0
Xylenes	µg/l	24 hr flow proportional	<1	0
Arsenic	µg/l	24 hr flow proportional	=1	0
Chromium	µg/l	24 hr flow proportional	=2	0
Copper	µg/l	24 hr flow proportional	=17	0.03
Cyanide	µg/l	24 hr flow proportional	<5	0.01
Flouride	µg/l	24 hr flow proportional	=0.6	0.9
Lead	µg/l	24 hr flow proportional	=2	0
Nickel	µg/l	24 hr flow proportional	=3	0
Zinc	µg/l	24 hr flow proportional	=21.9	0.03
Boron	µg/l	24 hr flow proportional	=259	0.39
Cadmium	µg/l	24 hr flow proportional	<0.09	0
Mercury	µg/l	24 hr flow proportional	<0.2	0
Selenium	µg/l	24 hr flow proportional	=2	0
Barium	µg/l	24 hr flow proportional	=26	0.04

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

Table D.1(iii)(a): EMISSIONS TO SURFACE/GROUND WATERS (Storm Overflow)

Discharge Point Code: SW-2

Local Authority Ref No:		
Source of Emission:	Clones Waste Water Treatment Works - Inlet Pump St	
Location:	Clones Waste Water Treatment Works	
Grid Ref (12 digits, 6E, 6N)	250562 / 325312	
Name of Receiving waters:	River Finn	
River Basin District	North Eastern RBD	
Designation of Receiving Waters:	Not Applicable	
Flow Rate in Receiving Waters:	0.5132	$m^3.sec^{-1}$ Dry Weather Flow
	0.02714	$m^3.sec^{-1}$ 95% Weather Flow

Emission Details:

(i) Volume emitted			
Normal/day	0 m^3	Maximum/day	0 m^3
Maximum rate/hour	0 m^3	Period of emission (avg)	0 min/hr 0 hr/day 0 day/yr
Dry Weather Flow	0 m^3/sec		

Table D.1(iii)(a): EMISSIONS TO SURFACE/GROUND WATERS (Storm Overflow)

Discharge Point Code: SW-3

Local Authority Ref No:		
Source of Emission:	Manhole 55301	
Location:	Clones Waste Water Treatment Works	
Grid Ref (12 digits, 6E, 6N)	250510 / 325336	
Name of Receiving waters:	River Finn	
River Basin District	North Eastern RBD	
Designation of Receiving Waters:	Not Applicable	
Flow Rate in Receiving Waters:	0.5132	$m^3.sec^{-1}$ Dry Weather Flow
	0.02714	$m^3.sec^{-1}$ 95% Weather Flow

Emission Details:

(i) Volume emitted			
Normal/day	0 m^3	Maximum/day	0 m^3
Maximum rate/hour	0 m^3	Period of emission (avg)	0 min/hr 0 hr/day 0 day/yr
Dry Weather Flow	0 m^3/sec		

Table D.1(iii)(a): EMISSIONS TO SURFACE/GROUND WATERS (Storm Overflow)

Discharge Point Code: SW-4

Local Authority Ref No:		
Source of Emission:	98 Avenue Pump Station	
Location:	98 Avenue, Clones, Co.Monaghan	
Grid Ref (12 digits, 6E, 6N)	250356 / 325962	
Name of Receiving waters:	River Finn	
River Basin District	North Eastern RBD	
Designation of Receiving Waters:	Not Applicable	
Flow Rate in Receiving Waters:	0.5132	$m^3.sec^{-1}$ Dry Weather Flow
	0.02714	$m^3.sec^{-1}$ 95% Weather Flow

Emission Details:

(i) Volume emitted			
Normal/day	0 m^3	Maximum/day	0 m^3
Maximum rate/hour	0 m^3	Period of emission (avg)	0 min/hr 0 hr/day 0 day/yr
Dry Weather Flow	0 m^3/sec		

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 (m3/annum)
SW-1	365	547500

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 (m3/annum)	Complies with Definition of Storm Water Overflow
SW-2	0	0	Yes
SW-3	0	0	Yes
SW-4	0	0	Yes

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)	250680 / 325269

Parameter	Results (mg/l)				Sampling method	Limit of Quantitation	Analysis method / technique
	18/06/08						
pH	= 7.6				Grab	0.01	Method 4500-H+/Electrometry
Temperature	= 13.7				Grab	0	0
Electrical Conductivity (@ 25°C)	= 811				Grab	0.5	Method 2510 B/Electrometry
Suspended Solids	= 13				Grab	3	Method 2540 D/Filtration/Dry in 104C
Ammonia (as N)	= 2.71				Grab	0.06	Method 4500NH3F/Colorimetry
Biochemical Oxygen Demand	= 5				Grab	2	Method5210 B/Electrometry
Chemical Oxygen Demand	= 43				Grab	5	Method5220 D/Spectrophotmetry
Dissolved Oxygen	= 0				Grab	0	0
Hardness (as $CaCO_3$)	= 0				Grab	0	0
Total Nitrogen (as N)	= 6.45				Grab	1	Calculation
Nitrite (as N)	= 0.277				Grab	0.003	Method 4500-NO2-B/colorimetry
Nitrate (as N)	= 2.81				Grab	0.09	Method 4500-NO3-H/Colorimetry
Total Phosphorous (as P)	= 2.236				Grab	0.042	Method 4500-P E/Colorimetry
OrthoPhosphate (as P)	= 2.056				Grab	0.004	Method 4500-P E/Colorimetry
Sulphate (SO_4)	= 44.6				Grab	1.39	Method 4500-SO42-E/Colorimetry
Phenols (Sum)	< 0.1				Grab	0.1	EPA Method 525 GCMS

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

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)	250680 / 325269

Parameter	Results (µg/l)				Sampling method	Limit of Quantitation	Analysis method / technique
	18/06/08						
Atrazine	< 0.01				Grab	0.01	USEPA Method 610 HPLC
Dichloromethane	= 625.153				Grab	1	USEPA Method 524 GCMS
Simazine	< 0.01				Grab	0.01	USEPA Method 610 HPLC
Toluene	< 1				Grab	1	USEPA Method 524.2 GCMS
Tributyltin	< 0.02				Grab	0.02	Subcontracted Test GCMS
Xylenes	< 1				Grab	1	USEPA Method 524.2 GCMS
Arsenic	= 1				Grab	0.96	Method 3125B ICPMS
Chromium	< 0.93				Grab	0.93	Method 3125B ICPMS
Copper	= 9				Grab	0.2	Method 3125B ICPMS
Cyanide	= 8				Grab	5	Hach Water Analysis Handbook 2nd edition
Flouride	= 0.5				Grab	0.03	Method 4500 F-- E Colorimetry
Lead	= 2				Grab	0.38	Method 3125B ICPMS
Nickel	= 2				Grab	0.47	Method 3125B ICPMS
Zinc	= 18.6				Grab	4.6	Method 3125B ICPMS
Boron	= 386				Grab	4.2	Method 3125B ICPMS
Cadmium	< 0.09				Grab	0.09	Method 3125B ICPMS
Mercury	< 0.2				Grab	0.2	Method 3125B ICPMS
Selenium	= 1				Grab	0.74	Method 3125B ICPMS
Barium	= 41				Grab	0.74	Method 3125B ICPMS

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)	250537 / 325320

Parameter	Results (mg/l)				Sampling method	Limit of Quantitation	Analysis method / technique
	18/06/08						
pH	= 7.8				Grab	0.01	Method 4500-H+/Electrometry
Temperature	= 13.6				Grab	0	0
Electrical Conductivity (@ 25°C)	= 662				Grab	0.5	Method 2510 B/Electrometry
Suspended Solids	= 7				Grab	3	Method 2540 D/Filtration/Dry in 104C
Ammonia (as N)	= 0.98				Grab	0.06	Method 4500NH3F/Colorimetry
Biochemical Oxygen Demand	< 2				Grab	2	Method5210 B/Electrometry
Chemical Oxygen Demand	= 28				Grab	5	Method5220 D/Spectrophotmetry
Dissolved Oxygen	= 0				Grab	0	0
Hardness (as $CaCO_3$)	= 0				Grab	0	0
Total Nitrogen (as N)	= 1.72				Grab	1	Calculation
Nitrite (as N)	= 0.012				Grab	0.003	Method 4500-NO2-B/colorimetry
Nitrate (as N)	< 0.09				Grab	0.09	Method 4500-NO3-H/Colorimetry
Total Phosphorous (as P)	= 1.206				Grab	0.042	Method 4500-P E/Colorimetry
OrthoPhosphate (as P)	= 0.291				Grab	0.004	Method 4500-P E/Colorimetry
Sulphate (SO_4)	= 37.16				Grab	1.39	Method 4500-SO42-E/Colorimetry
Phenols (Sum)	< 0.1				Grab	0.1	EPA Method 525 GCMS

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

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)	250537 / 325320

Parameter	Results (µg/l)				Sampling method	Limit of Quantitation	Analysis method / technique
	18/06/08						
Atrazine	< 0.01				Grab	0.01	USEPA Method 610 HPLC
Dichloromethane	= 400.374				Grab	1	USEPA Method 524 GCMS
Simazine	< 0.01				Grab	0.01	USEPA Method 610 HPLC
Toluene	< 1				Grab	1	USEPA Method 524.2 GCMS
Tributyltin	< 0.02				Grab	0.02	Subcontracted Test GCMS
Xylenes	< 1				Grab	1	USEPA Method 524.2 GCMS
Arsenic	= 1				Grab	0.96	Method 3125B ICPMS
Chromium	< 0.93				Grab	0.93	Method 3125B ICPMS
Copper	= 6				Grab	0.2	Method 3125B ICPMS
Cyanide	= 5				Grab	5	Hach Water Analysis Handbook 2nd edition
Flouride	= 0.42				Grab	0.03	Method 4500 F-- E Colorimetry
Lead	= 3				Grab	0.38	Method 3125B ICPMS
Nickel	= 2				Grab	0.47	Method 3125B ICPMS
Zinc	= 11.5				Grab	4.6	Method 3125B ICPMS
Boron	= 147				Grab	4.2	Method 3125B ICPMS
Cadmium	< 0.09				Grab	0.09	Method 3125B ICPMS
Mercury	< 0.2				Grab	0.2	Method 3125B ICPMS
Selenium	= 1				Grab	0.74	Method 3125B ICPMS
Barium	= 54				Grab	0.74	Method 3125B ICPMS

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 appropiate 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.		

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 agancy.		
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	2 hardcopies of EIS provided if applicable.		