Comhairle Contae Mhuineacháin
Monaghan County Council

Acmhainní Daonna
Human Resource
047 30586

Airgeadas
Finance
047 30589

Na Bóithre
Roads
047 30597

Clár na dToghthóirí
Register of Electors
047 30547

Comhshaol
Environment
047 30593

Deontais Ardoideachais
Higher Education Grants
047 30550

Na hEalaíona
Arts
047 71114

achtaí /Deontais Tithíochta
Housing Loans/Grants
047 30527

Leabharlann an Chontae
County Library
047 51143

Mótarcháin
Motor Tax
047 81175

Músaem an Chontae
County Museum
047 82928

Pleanáil
Planning
047 30532

Pobal & Fiontar
Community & Enterprise
047 30500

Rialú Dóiteáin/Foirgnimh
Fire/Building Control
047 30521

Seirbhísí Uisce
Water Services
047 30504

COPY.

ENVIRONMENTAL PROTECTION AGENCY
16 MAY 2012

Administration, Environmental Licensing Programme,
Office of Climate, Licence and Resource Use,
Environmental Protection Agency,
Headquarters,
P.O. Box 3000,
Johnstown Castle Estate,
Co. Wexford.

10th May 2012

Re: Application for a Waste Water Discharge Certificate of Authorisation for Scotshouse Waste Water Treatment Works, Monaghan.

Dear Sir/Madam,

Please find enclosed signed original application forms in respect of an application for the Waste Water Treatment Works serving the agglomeration of Scotshouse.

Scotshouse was initially applied for as a Discharge Licence, but was withdrawn (ref: letter dated 18th January 2012 to EPA) as its current operating P.E is under 500 P.E. As outlined in letter dated 28th March 2012 from the EPA, the fee for the Certificate of Authorisation for Scotshouse of €3,000 will be retained from the initial fee of €7,000 submitted with the initial discharge Licence application and a refund will be issued in due course.

Also find enclosed one further hard copy of these documents, plus two copies in electronic searchable PDF format on CD-ROM with the geo-referenced drawings included.

Monaghan County Council confirms that the content of the electronic files and the accompanying CD-ROMS are a true copy of the original hardcopy application.

Please contact the undersigned if you require any further information or documentation.

Comhairle Contae Mhuineacháin
Monaghan County Council

Acmhainní Daonna
Human Resource
047 30586

Airgeadas
Finance
047 30589

Na Bóithre
Roads
047 30597

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Community & Enterprise
047 30500

Rialú Dóiteáin/Foirgnimh
Fire/Building Control
047 30521

Seirbhísí Uisce
Water Services
047 30504

Yours Sincerely,

Mark Johnston,
Senior Executive Engineer,
Water Services Section,
Monaghan County Council.
047 30513

SCOTSHOUSE WASTE WATER TREATMENT WORKS

WASTE WATER CERTIFICATE OF AUTHORISATION APPLICATION

Monaghan County Council
County Offices,
The Glen,
Co. Monaghan.

MAY 2012

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Accreditation Certificate – Euro Environmental Management Ltd (trading as Fitz Scientific)

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Attachment G.2: Draft River Basin Management Plan for the North Western International River Basin District – Summary Leaflet

Monaghan County Councils Phosphate Implementation Report 2006

Environmental Protection Agency
An Ghníomhaireacht um Chaomhnú Comhshaoil

Waste Water Discharge Certificate of Authorisation 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.	12/06/2009	N/A	
V.2.	17/06/2009	Delete reference to Design Build and Operate	To accurately reflect the information required for the small schemes programme
		Delete the requirement to provide contact information for the associated waste water treatment plant	To accurately reflect the information required and the scale of the waste water works
		Replace references to the Water Services investment Programme with the Small Schemes Programme	To accurately reflect the information required for the small schemes programme
		Update references to new legislation	To reflect changes in legislation
		Inclusion of the requirement to submit information on private WWTPs within the agglomeration.	To obtain an overview of all discharges within the agglomeration.
V.3.	17/02/2012	Amended Section B.6 and Section F.1 to take account of the requirements of European Communities (Birds and Natural Habitats) Regulations 2011 (S.I. No. 477 of 2011) in terms of Appropriate Assessment under Article 6(3) of the Habitats Directive (92/43/EEC).	To accurately reflect the Habitats Regulations 2011 (S.I. No. 477 of 2011) requirements.

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ABOUT THIS APPLICATION FORM

This form is for the purpose of making an application for a Waste Water Discharge Certificate of Authorisation under the Waste Water Discharge (Authorisation) Regulations, 2007, as amended 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, as amended. 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, as amended. **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, as amended, 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, as amended.

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, as amended.

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, where applicable, 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

Monaghan County Council is applying to the Environmental Protection Agency for a Waste Water Certificate of Authorisation for the existing Waste Water Works at Scotshouse. The Waste Water Works comprises a network of gravity sewers and the wastewater treatment plant at Scotshouse. The plant is supervised/manned for 2 hours Monday to Friday, giving a total of 10 hours per week.

The Scotshouse WWTP is a CO-BIOPAK plant with three basic zones (i) Primary and Sludge Storage (Zone 1) (ii) Aeration Zone (Zone 2) and (iii) Final Settlement (Zone 3).

Wetlands were constructed at Scotshouse to cater for the current and existing load generated by the village of Scotshouse. A horizontal reed bed (circa. 840m2) operates as a polishing filter to reduce nutrient contents further after the primary and secondary treatment. A land area is also being used for evapotranspiration and percolation, (optimum working period April to September).

The Waste Water Treatment Works, located at NGR 248813E 319701N in the town land of Aghnahola, Scotshouse Co. Monaghan, has a design capacity is 600 PE. The Works currently collects and treats domestic and trade effluent from a population equivalent of approximately 330PE. The Waste Water Treatment Plant treats in the region of 59 cubic metres of effluent every day (based on PE) and provides tertiary treatment (included constructed wetlands). The 2010/2011 treated effluent monitoring results for the WWTP has an average BOD concentration of 5mg/l and average suspended solids concentration of 17.44mg/l. Average concentrations of nutrients are as follows; Total Phosphorus 0.74mg/l (P) and Total Nitrogen 1.2mg/l (N).

The primary discharge point SW1(P) discharges to the Scotshouse River, a tributary of the Finn River at National Grid Reference 248728E, 319761N.

The Scotshouse River overall status is moderate with overall risk classed as 'at risk' of not achieving good status by 2015, the overall objective under the water framework directive for the river is to restore good status by 2015 (WFD website and reports).

There is no EPA monitoring site or hydrometric station upstream or downstream of the discharge point.

Monaghan County Councils upstream monitoring results on 12/10/2011 concur with the 'moderate status' water quality in the river with ammonia levels of 0.07mg/l NH_3-N, BOD of <2mg/l, Total Phosphorus of 0.09mg/l, Total Nitrogen of 1.37mg/l N and average suspended solids of 11mg/l. Dangerous substances concentrations were analysed in 2009 and were below detection level for 5 of the 19 parameters tested. No levels exceeded the standards as outlined in the Water Quality (Dangerous Substances) Regulations 2001.

Results from the downstream monitoring site (12/10/2011) (aSW1(P)d) again concur with the 'moderate status' water quality from the WFD website and reports with ammonia 0.1mg/l NH_3-N, BOD of <2mg/l, Total Phosphorus of 0.1mg/l, Total Nitrogen of 0.11mg/l N and suspended solids of 15mg/l. Dangerous substances concentrations (2009 results) were below detection level for 8 of the 19 parameters tested. No levels exceeded the standards as outlined in the Water Quality (Dangerous Substances) Regulations 2001.

There is no flow monitoring station nearby the discharge point, nor is there an estimated flow for this stream/river on the EPA hydrometric website. Assimilative calculations are therefore unable to be calculated.

SECTION B: GENERAL

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

B.1 Agglomeration Details

Name of Agglomeration:	Scotshouse

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*:	Monaghan County Council
Address:	Water Services Section
	The Glen,
	Monaghan.
Tel:	047 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:	Water Services Section,
	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:	
Tel:	
Fax:	
e-mail:	

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

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*:	Mark T. Johnston (Engineer)
Address:	Scotshouse WWTP, Aghnahola,
	Scotshouse,
	Co. Monaghan
Grid ref (6E, 6N)	248813E 319701N
Level of Treatment	Tertiary (Includes constructed wetlands)

*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.

Discharge to	Surface Water
Type of Discharge	Open Pipe Discharge
Unique Point Code	SW1(P)
Location	Aghnahola, Scotshouse, Co. Monaghan.
Grid ref (6E, 6N)	248728E 319761N

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.

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

*Where a septic tank is in existence simultaneous to a package plant within an agglomeration, discharges from the septic tank shall be considered as a secondary discharge.

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	Not Applicable
Unique Point Code	Not Applicable

Location	Not Applicable
Grid ref (6E, 6N)	Not Applicable

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 and/or Public 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:	Monaghan County Council
Address:	County Offices,
	The Glen
	Monaghan
	Co. Monaghan
Tel:	047 30500
Fax:	047 82739
e-mail:	planning@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***	√

A Part 8 planning Application or EIS was not required for this development.

Local Authority Planning File Reference Nº:	Not Applicable

Attachment B.6 should contain ***the most recent*** planning permission, including a copy of ***all*** conditions, a copy of the planning inspector's report 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.*

Where applicable, provide a copy of any screening for Appropriate Assessment report and Natura Impact Statement (NIS) that was prepared for consideration by any planning/public authority as defined in Regulation 2(1) of the European Communities (Birds and Natural Habitats) Regulations 2011 (S.I. No. 477 of 2011) in relation to the waste water works which is the subject of this application. Where a determination that an Appropriate Assessment is required has been made by any planning/public authority in relation to the waste water works, a copy of that determination and any screening report and NIS, and any supplemental information furnished in relation to any such report or statement,

which has been provided to the planning/public authority for the purposes of the Appropriate Assessment, shall be included in **Attachment B.6.**

Attachment included	**Yes**	**No**
		√

B.7 Other Authorities

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

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

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

Within the SFADCo Area	**Yes**	**No**
		√

B.7 (ii) Health Services Executive Region

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

Name:	Health Service Executive
Address:	Regional Health Office
	HSE Dublin & North East
	Dublin Road, Kells, Co. Meath.
Tel:	046 9280621
Fax:	046 9241784
e-mail:	rhodublinnortheast@mailq.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	330– Current PE 600 – Design PE
Data Compiled (Year)	2012
Method	Based on house count

B.8 (ii) Pending Development

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

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

As stated in Chapter 3, Settlement Strategy of the Monaghan County Development Plan 2007-2013, there is 58 hectares of land in Scotshouse within the development envelope of which approximately 29 ha are available for development. From **Table 1** below 20 hectares of land is available for residential development (70% of lands available).

Village	**Lands within Dev. Envelope ha**	**Lands Available for Dev. ha**	**Lands Residential Dev. ha (70% of lands available)**	**Hsg. Capacity @ 15 houses per hectare**
Scotshouse	58	29	20	300

At low density (15 houses per hectare) it is anticipated that approximately 300 housing units could be built during the Development Plan period if all land within the development limit was used for residential development. This could be a maximum population increase of 930 based on an average household occupancy of 3.1. However, presently in March 2012, heading towards the end of the current development plan (2007-2013) the house count within the catchment area of the Scotshouse WWTP network indicates that the plant is currently operating at 330 P.E. Monaghan County Councils ePlan was consulted with regard to planning permission granted/conditional planning permission from 2008-present. No applications currently within the agglomeration have the potential to be contributing to the Council network, it should be noted that in the current economic climate it is probable that not all the housing permissions applied for within the timeframe of the Certificate for will be realised.

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, as amended.

Class of waste water discharge	**Fee (in €)**
Discharges from agglomerations with a population equivalent of less than 500	€3,000

Appropriate Fee Included	**Yes**	**No**
	√	

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 small schemes programme) 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.

No Capital Investment Programme has been prioritised for the development.

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

Attachment included	Yes	No
		√

B.10 Significant Correspondence

Provide a summary of any correspondence resulting from a Section 63 notice issued by the Agency in relation to the waste water works under the Environmental Protection Agency Acts, 1992 to 2011.

There have been no Section 63 notices issued by the Agency in relation to the Scotshouse 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.

Attachment included	Yes	No
		√

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.

Not Applicable.

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.

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.
The Scotshouse WWTW was taken over by Monaghan County Council in July 2007.

C.1.1 Storm Water Overflows

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

There are no SWO's within the works.

- 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

There are no pumping stations on the network.

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.

Scotshouse Waste Water Treatment Plant

The plant is supervised/manned for 2 hours Monday to Friday, giving a total of 10 hours per week.

Primary & Secondary Treatment

The Scotshouse WWTP is a CO-BIOPAK plant. There are three basic zones to the plant (see **Drawing 5 and 6 of Attachment C.1**.):

- Primary and Sludge Storage (Zone 1)
- Aeration Zone (Zone 2)
- Final Settlement (Zone 3)

The process uses the activated sludge treatment process to perform the necessary biodegradation of the organic matter. This process is enhanced by floating plastic media which are located in Zone 2

Activated Sludge Process

A CO-BIOPAK plant treats sewage by allowing a population of bacteria (activated sludge) to naturally build inside the aeration zone of the plant. This bacteria consumes the soluble and particulate organic matter and provides the treatment to provide a good effluent. In doing so, this process also creates waste sludge that needs to be tankered away occasionally. The aeration of the activated sludge provides the organisms with the necessary amount of oxygen to provide aerobic conditions in this zone.

The activated sludge is displaced to the final settlement tank where it settles and forms a sludge blanket. The sludge is returned back to the aeration zone to aid in the treatment process and depending on the sludge level in the aeration zone, occasionally a small volume of this is returned back to the primary/storage tanks for disposal. The clear supernatant above the sludge blanket exits the settlement tank containing very little residual organic material and is discharged to the reed beds.

Description of Plant

Primary Settlement Zone (PSZ)

The wastewater enters the PSZ where the BOD and the SS concentrations are reduced through primary settlement. Solid material settles at the bottom while oils, fats and grease that may be present in the sewage float to the top. Due to the nature of the process in this tank, a "crust" of organic material may in time form on the surface of the tank. This zone allows storage of sludge for between 60-90 days after which the plant requires desludging.

Aeration Compartment

The settle wastewater flows to the aeration zones by gravity (displacement). The aeration zone is sized to accommodate the required plastic media to treat incoming organic matter (BOD load). The activated sludge present in this tank digests organic matter present in the wastewater. A bank of fine bubble membrane diffusers is located at the bottom of the tank to provide oxygen required for this biological process. The air supply also provides the required mixing energy to ensure efficient contact between the activated sludge and the air bubbles.

Final Settlement Zone (FSZ)

The wastewater flows by gravity from the aeration compartment to the FSZ. This zone is made up of one hopper shaped tank and provides retention of a minimum of two hours flow effluent. The tanks sides are tapered to form a hopper so that the activated sludge and other solids settle at the bottom close to the sludge return system. Treated effluent is discharged from this system via the effluent weir and to the outlet pipe. The settled sludge is automatically returned back to the aeration compartment by the use of submersible pumps located in the hopper.

The plant is designed to produce a fully nitrified effluent of 20:30mg/l BOD: Suspended Solids.

Tertiary Treatment – Constructed Wetlands & Evapotranspiration

Wetlands were constructed at Scotshouse to cater for the current and existing load generated by the village of Scotshouse.

A horizontal reed bed of 840m^2 operates as a polishing filter to reduce nutrient contents further after the primary and secondary treatment.

A land area of 10,000m^2 is being also used for evapotranspiration and percolation, (optimum working period April to September).

C.1(iii) Information on the Location of Final Discharge Locations

Primary Discharge Point - SW1(P)

The primary discharge point SW1(P) discharges effluent to the Scotshouse River, a tributary of the Finn River at National Grid Reference 248728E, 319761N. The location of the discharge is shown on **Drawing 3** of **Attachment B3**.

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
	√	

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).

Monitoring data for the influent for 2011 is contained in **Table D.1(iv) Attachment D.1.**

Tables D.1(i)(a), (b) & **(c)** have been completed for the primary discharge are contained in **Attachment D.1**

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

Attachment included	**Yes**	**No**
	√	

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**
		√

D.1 (iii) Private Waste Water Treatment Plants

Provide information on all independently owned/operated private waste water treatment plants operating within the agglomeration. Submit a copy of the Section 4 discharge licence issued under the Water Pollution Acts 1977 to 1990, as amended for each discharge.

Not Applicable.

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(P)	Primary	Monaghan Co. Co.	River	Scotshouse River (Tributary of Finn River)	Not Designated	248728E	319761N

The overall status of the Scotshouse river is 'moderate' with overall objective to restore it to 'good status' by 2015 under the Water Framework Directive.
Source: WFD website and reports.
There is no information available on this river on the EPA website.

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/.

An estimation of the quantity of waste water likely to be emitted in relation to the primary discharge is contained in **Table E.1(i) of Attachment E1.**

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/.

Not Applicable.

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.

There are no flow monitors or composite samplers at the Scotshouse WWTP. A mobile composite refrigerated sampler is used to take samples of the effluent.

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.

Environmental Monitoring & Sampling

Monaghan Co. Co. carried out both the sampling and analyses before 2009, since then, Monaghan County Council staff carries out the collection of the samples from the discharge of the Scotshouse Waste Water Treatment Plant including the samples of the water upstream and downstream of the primary discharge in the Scotshouse River. The samples are then delivered by courier to Euro Environmental Management Ltd (trading as Fitz Scientific), Drogheda, Co. Louth for analyses. Details of their accreditation of analysis are included in **Attachment E.2.** of this application. Sampling of the primary discharge from the Scotshouse

Waste Water Treatment Works is undertaken every quarter, the monitoring of the upstream and downstream locations was carried out approximately once in 2011. Composite samples (mobile sampler) are taken of the effluent and grab samples of the influent, upstream and downstream samples for analyses.

Monitoring, Sampling & Analytical Procedures

Careful collection is carried out during all sampling to ensure that the relative proportions or concentrations of all pertinent components are the same in the samples as in the materials being sampled. The samples are also handled carefully to ensure that no significant change in the composition occurs before the tests are made.

During the waste water and water sampling all personnel wear safety boots and latex gloves at all times. Due care and attention is taken at all times.

All of the sampling points are located in places that have safe means of access.

Further details on the annual sampling programme schedule commencing in 2012 for Scotshouse are detailed below.

Plant Name	Design	Min No of Samples	Raw Influent	Final Effluent	River Up Stream	River Down stream	Total
Scotshouse	PE 600	4	4	4	4	4	16

Euro Environmental Services, Drogheda, Co. Louth have sampled and analysed for dangerous substances and characterisation of emission parameters in 2009. Details of their accreditation of analysis are included in **Attachment E.2.**

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
SW1(P)s	Primary	S	248728	319761	N
aSW1(P)u	Primary	M	248978	319698	N
aSW1(P)d	Primary	M	248613	319866	N

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

E.4 Sampling Data

Regulation 24(i) of the Waste Water Discharge (Authorisation) Regulations 2007, as amended, 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.

Sampling Data

Sampling Data pertaining to the discharge are tabled in **Attachment E.4.**

Monitoring Requirements & Treatment Standards

Scotshouse Waste Water Works complies with the monitoring and treatment standards specified in the Urban Waste Water Treatment Regulations S.I 254 of 2001 and amendments S.I. 440 of 2004 and S.I. 48 of 2010.

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.

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.

General

The outfall from the Scotshouse Waste Water Plant discharges to the Scotshouse River, a tributary of the Finn River at National Grid Reference 248728E 319761N in the Town land of Aghnahola, Scotshouse Co. Monaghan.

The treated effluent has an average BOD concentration of 5mg/l (2010/2011 results) and average suspended solids concentration of 17.44mg/l. Average concentrations of nutrients are as follows (2010/2011 results); Ammonia 1.75mg/l, Total Phosphorus 0.74mg/l (P) and Total Nitrogen 1.2mg/l (N).

The overall status of the Scotshouse River is 'moderate' with overall objective to restore it to 'good status' by 2015 under the Water Framework Directive.
Source: WFD website and reports.
There is no information available on this river on the EPA website.

Monaghan Co. Co. will monitor the river both upstream and downstream of the discharge from the Waste Water Works. These locations are shown on **Drawing 4** of **Attachment B3**. One set of monitoring results is available for 2011 and are tabulated in **Tables F.1(i)a aSW1(P)u** and **aSW1(P)d.** Monitoring results for the dangerous substances relate to a once-off sample collected in April 2009 and are presented in **Tables F.1(i)b aSW(P)u** and **aSW(P)d**.

Monaghan County Councils upstream monitoring results on 12/10/2011 concur with the 'moderate status' water quality in the river with ammonia levels of 0.07mg/l NH_3-N, BOD of <2mg/l, Total Phosphorus of 0.09mg/l, Total Nitrogen of 1.37mg/l N and average suspended solids of 11mg/l. Dangerous substances concentrations were analysed in 2009 and were below detection level for 5 of the 19 parameters tested. No levels exceeded the standards as outlined in the Water Quality (Dangerous Substances) Regulations 2001.

Results from the downstream monitoring site (12/10/2011) (aSW1(P)d) again concur with the 'moderate status' water quality from the WFD website and reports with ammonia 0.1mg/l NH_3-N, BOD of <2mg/l, Total Phosphorus of 0.1mg/l, Total Nitrogen of 0.11mg/l N and suspended solids of 15mg/l. Dangerous substances concentrations (2009 results) were below detection level for 8 of the 19 parameters tested. No levels exceeded the standards as outlined in the Water Quality (Dangerous Substances) Regulations 2001.

There is no flow monitoring station nearby the discharge point, nor is there an estimated flow for this stream/river on the EPA hydrometric website. Assimilative calculations are therefore unable to be calculated.

Tables F.1 (i) (a) & **(b)** are completed for the primary discharge point.

- 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.
  Not applicable.

- 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.
  Not applicable.

- Describe the existing environment in terms of water quality with particular reference to environmental quality standards or other legislative standards. Submit a copy of the most recent water quality management plan or catchment management plan in place for the receiving water body. Give details of any designation under any Council Directive or Regulations that apply in relation to the receiving surface or groundwater.
  The existing overall status of the Scotshouse River is classified as 'moderate' with overall objective to restore it to 'good status' by 2015 under the Water Framework Directive. **Source:** WFD website and reports.
  There is no information available on this river on the EPA website.
  The ambient monitoring results concur with this moderately polluted status with regard to the Surface Water Regulations 2009 Environmental Quality Standards (EQS), with ammonia levels and total phosphorus levels above the EQS standards specified for 'good status' waters. The risk test description on the WFD report for the

Scotshouse river describes the WWTP point risk as 2b 'not at risk' to the water body, with unsewered areas and diffuse pollutants being described as 1a 'at risk' of impacting on the river body.
The effluent results for 2010 and 2011 are compliant with the UWW Regulations 2001 (and amendments) and the WWTP is not identified as 'a risk' to the water body (WFD website and reports).
A copy of the summary leaflet of the Draft River Basin Management Plan for the North Western International River Basin District summary leaflet is contained in **Attachment G2.**

The Scotshouse River is not designated.

- 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.

The level of dangerous substances both in the effluent and in the receiving waters upstream and downstream of the discharge point as detailed in **Tables D1** and **F1** show a level below those in the Water Quality (Dangerous Substances) Regulations 2001 and therefore the emissions are not considered likely to impair the environment.

- 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 no drinking water abstractions downstream of the discharge point.

- 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 European Site, as defined in Regulation 2(1) of the European Communities (Birds and Natural Habitats) Regulations (S.I. No. 477 of 2011). Undertake a screening for Appropriate Assessment and state whether the discharge(s), whether individually or in combination with other plans or projects is likely to have a significant effect on a European Site(s), in view of best scientific knowledge and in view of the conservation objectives of the site(s). Where it cannot be excluded, on the basis of objective scientific information, following screening for Appropriate Assessment, that the discharge(s), either individually or in combination with other plans or projects, will have a significant effect on a European Site, the applicant shall provide a Natura Impact Statement. Where based on screening it is considered that an Appropriate Assessment is not required, a reasoned response should be provided. 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.**

There is no designated site within the vicinity of the discharge point.

Emissions from the Wastewater Treatment site will not have a significant effect on any designated site. There has been no correspondence with the National Parks and Wildlife Service in connection with the existing or proposed discharge.

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.

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.

Not Applicable.

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).

No Programme of Improvements has been prioritised for the development. The treatment works has been designed to comply with the above Directives.

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 the European Communities Environmental Objectives (Surface Waters) Regulations 2009

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 European Communities Environmental Objectives (Surface Waters) Regulations 2009 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 previously identified as the principal sources of pollution under the Phosphorous Regulations (S.I. No. 258 of 1998).

Water Quality Management Plans or Catchment Management Plans

The summary leaflet for Draft River Basin Management Plan for the North Western International River Basin District summary leaflet is contained in **Attachment G2.**

Phosphorus Removal

The treatment plant does not include a facility for the removal of phosphorus. However, the Scotshouse wetlands (horizontal reed beds) act as a polishing filter removing nutrients such a phosphorous from the effluent.

The Council Phosphate Implementation Report 2006 is contained in **Attachment G2.**

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.

No Programme of Improvements has been prioritised for the development.

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 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, as amended.

Not Applicable.

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

Attachment included	Yes	No
		√

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, as amended.

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 :** 10/5/2012
(on behalf of the organisation)

Print signature name: MARK JOHNSTON

Position in organisation: S.E.E

Agglomeration details

Leading Local Authority	Monaghan County Council
Co-Applicants	
Agglomeration	Scotshouse Waste Water Treatment Works
Population Equivalent	600
Level of Treatment	Tertiary (includes Constructed Wetlands)
Treatment plant address	Aghnahola, Scotshouse, Co. Monaghan.
Grid Ref (12 digits, 6E, 6N)	248813 / 319701
EPA Reference No:	D0446-01

Contact details

Contact Name:	Mr Mark Johnston
Contact Address:	Water Services 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:	Scotshouse Waste Water Treatment Works	
Location:	Aghnahola, Scotshouse, Co. Monaghan	
Grid Ref (12 digits, 6E, 6N)	248728 / 319761	
Name of Receiving waters:	Scotshouse River (Tributary of River Finn)	
Water Body:	River Water Body	
River Basin District	North Western IRBD	
Designation of Receiving Waters:	Not Designated	
Flow Rate in Receiving Waters:	0	$m^3.sec^{-1}$ Dry Weather Flow
	0	$m^3.sec^{-1}$ 95% Weather Flow
Additional Comments (e.g. commentary on zero flow or other information deemed of value)	No river flow data available No normal flow plant data available Quantity of waste calculated - max vol to be dischaged	

Emission Details:

(i) Volume emitted			
Normal/day	0 m^3	Maximum/day	108 m^3
Maximum rate/hour	4.5 m^3	Period of emission (avg)	60 min/hr 24 hr/day 365 day/yr
Dry Weather Flow	0.001 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	= 0	
Temperature	°C	24 hr flow proportional	= 0	
Electrical Conductivity (@ 25°C)	µS/cm	24 hr flow proportional	= 0	
Suspended Solids	mg/l	24 hr flow proportional	= 34	3.672
Ammonia (as N)	mg/l	24 hr flow proportional	= 4.53	0.489
Biochemical Oxygen Demand	mg/l	24 hr flow proportional	= 20	2.16
Chemical Oxygen Demand	mg/l	24 hr flow proportional	= 74	7.992
Total Nitrogen (as N)	mg/l	24 hr flow proportional	= 3.09	0.334
Nitrite (as N)	mg/l	24 hr flow proportional	= 0	0
Nitrate (as N)	mg/l	24 hr flow proportional	< 0	0
Total Phosphorous (as P)	mg/l	24 hr flow proportional	= 3.08	0.33264
OrthoPhosphate (as P)	mg/l	24 hr flow proportional	= 0	0
Sulphate (SO_4)	mg/l	24 hr flow proportional	= 78.71	8.50068
Phenols (Sum)	µg/l	24 hr flow proportional	< 0.1	0

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.

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	< 1	0
Simazine	µg/l	24 hr flow proportional	< 0.01	0
Toluene	µg/l	24 hr flow proportional	< 0.28	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	< 0.96	0
Chromium	µg/l	24 hr flow proportional	< 0.93	0
Copper	µg/l	24 hr flow proportional	= 2	0.0788
Cyanide	µg/l	24 hr flow proportional	< 5	0
Flouride	µg/l	24 hr flow proportional	= 320	12.6144
Lead	µg/l	24 hr flow proportional	< 0.38	0
Nickel	µg/l	24 hr flow proportional	= 1.6	0.063072
Zinc	µg/l	24 hr flow proportional	= 113	4.45446
Boron	µg/l	24 hr flow proportional	= 266.2	10.49
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	0.0788
Barium	µg/l	24 hr flow proportional	= 37.6	1.482192

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.

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	0

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

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)	248613 / 319866

Parameter	Results (mg/l)				Sampling method	Limit of Quantitation	Analysis method / technique
	14/04/09	12/10/11					
pH		= 0			Grab		
Temperature		= 0			Grab		
Electrical Conductivity (@ 25°C)		= 0			Grab		
Suspended Solids		= 15			Grab	6	SOP 106 by gravimetry
Ammonia (as N)		= 0.1			Grab	0.03	SOP 114 bu automated discrete analyser
Biochemical Oxygen Demand		< 2			Grab	6	SOP 113
Chemical Oxygen Demand		= 31			Grab	15	SOP 107
Dissolved Oxygen		= 0			Grab		
Hardness (as $CaCO_3$)		= 0			Grab		
Total Nitrogen (as N)		= 0.11			Grab	3	Calculation
Nitrite (as N)		= 0			Grab		
Nitrate (as N)		= 0			Grab		
Total Phosphorous (as P)		= 0.1			Grab	0.093	SOP 166 by automated discrete sampler
OrthoPhosphate (as P)		= 0			Grab		
Sulphate (SO_4)	= 30.21				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 0.45µm filter paper
For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

Additional Comments:	For paramaters with no values recorded (or '0' values recorded) - no data available. Results are for 2011 for parameters BOD, TSS, Ammonia, Total P & Total N. Dangerous substances results are from 2009 (from Sulphate onwards)

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)	248613 / 319866

Parameter	Results (µg/l)				Sampling method	Limit of Quantitation	Analysis method / technique
	14/04/09						
Atrazine	< 0.01				Grab	0.01	USEPA Method 610 HPLC
Dichloromethane	< 1				Grab	1	USEPA Method 524 GCMS
Simazine	< 0.01				Grab	0.01	USEPA Method 610 HPLC
Toluene	< 0.28				Grab	0.28	USEPA Method 524.2 GCMS
Tributyltin	< 0.02				Grab	0.02	Subcontracted Test GCMS
Xylenes	= 1				Grab	1	USEPA Method 524.2 GCMS
Arsenic	< 0.96				Grab	0.96	USEPA Method 3125B ICPMS
Chromium	= 5.3				Grab	0.93	USEPA Method 3125B ICPMS
Copper	= 4				Grab	0.2	USEPA Method 3125B ICPMS
Cyanide	< 5				Grab	5	Hach Water Analysis Handbook 2nd Edition
Flouride	= 130				Grab	0.03	Method 4500 F - E Colorimetry
Lead	< 0.38				Grab	0.38	USEPA Method 3125B ICPMS
Nickel	= 1.6				Grab	0.47	USEPA Method 3125B ICPMS
Zinc	= 7.9				Grab	4.6	USEPA Method 3125B ICPMS
Boron	= 29.2				Grab	4.2	USEPA Method 3125B ICPMS
Cadmium	< 0.09				Grab	0.09	USEPA Method 3125B ICPMS
Mercury	< 0.2				Grab	0.2	USEPA Method 3125B ICPMS
Selenium	= 3				Grab	0.74	USEPA Method 3125B ICPMS

Barium	= 66.7				Grab	0.74	USEPA Method 3125B ICPMS

Additional Comments:	Dangerous substance results are from 2009

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)	248978 / 319698

Parameter	Results (mg/l)				Sampling method	Limit of Quantitation	Analysis method / technique
	14/04/09	12/10/11					
pH		= 0			Grab	0	
Temperature		= 0			Grab	0	
Electrical Conductivity (@ 25°C)		= 0			Grab	0	
Suspended Solids		= 11			Grab	6	SOP 106 by Gravimetry
Ammonia (as N)		= 0.07			Grab	0.03	SOP 114 by automated discrete analyser
Biochemical Oxygen Demand		< 2			Grab	6	SOP 113
Chemical Oxygen Demand		= 36			Grab	15	SOP 107
Dissolved Oxygen		= 0			Grab	0	
Hardness (as $CaCO_3$)		= 0			Grab	0	
Total Nitrogen (as N)		= 1.37			Grab	3	Calculation (TKN+TON)
Nitrite (as N)		= 0			Grab	0	
Nitrate (as N)		= 0			Grab	0	
Total Phosphorous (as P)		= 0.09			Grab	0.093	SOP 166 bu automated discrete analyser
OrthoPhosphate (as P)		= 0			Grab	0	
Sulphate (SO_4)	= 24.12				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 0.45µm filter paper
For Phenols: USEPA Method 604, AWWA Standard Method 6240, or equivalent.

Additional Comments:	Parameters with '0' limit of quanitification have no up to date results For parameters with no values recorded (or '0' values) - no data available. Results are for 2011 for parameters BOD, COD, TSS, Ammonia, Total P, & Total N. Dangerous substances results are from 2009 analyses (from Sulphate onwards)

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)	248978 / 319698

Parameter	Results (µg/l)				Sampling method	Limit of Quantitation	Analysis method / technique
	14/04/09						
Atrazine	< 0.01				Grab	0.01	USEPA Method 610 HPLC
Dichloromethane	< 1				Grab	1	USEPA Method 524 GCMS
Simazine	< 0.01				Grab	0.01	USEPA Method 610 HPLC
Toluene	< 0.28				Grab	0.28	USEPA Method 524.2 GCMS
Tributyltin	< 0.02				Grab	0.02	Subcontracted Test GCMS
Xylenes	< 1				Grab	1	USEPA Method 524.2 GCMS
Arsenic	< 0.96				Grab	0.96	USEPA Method 3125B ICPMS
Chromium	< 0.93				Grab	0.93	USEPA Method 3125B ICPMS
Copper	< 0.2				Grab	0.2	USEPA Method 3125B ICPMS
Cyanide	< 5				Grab	5	Hach Water Analysis Handbook 2nd Edition
Flouride	= 110				Grab	0.03	Method 4500 F - E Colorimetry
Lead	= 1.6				Grab	0.38	USEPA Method 3125B ICPMS
Nickel	= 0.9				Grab	0.47	USEPA Method 3125B ICPMS
Zinc	< 4.6				Grab	4.6	USEPA Method 3125B ICPMS
Boron	< 4.2				Grab	4.2	USEPA Method 3125B ICPMS
Cadmium	< 0.09				Grab	0.09	USEPA Method 3125B ICPMS
Mercury	< 0.2				Grab	0.2	USEPA Method 3125B ICPMS
Selenium	= 1				Grab	0.74	USEPA Method 3125B ICPMS

Barium	= 59.7				Grab	0.74	USEPA Method 3125B ICPMS

Additional Comments:	Dangerous substance results are from 2009.

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,		No
(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,		No
(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,		No
(d)	state the population equivalent of the agglomeration to which the application relates,		No
(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,		No
(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.		No
(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,		No
(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,		No
(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,		No
(j)	give particulars of the nearest downstream drinking water abstraction point or points to the discharge point or points,		No
(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,		No
(l)	give detail of compliance with relevant monitoring requirements and treatment standards contained in any applicable Council Directives of Regulations,		No
(m)	give details of any work necessary to meet relevant effluent discharge standards and a timeframe and schedule for such work.		No
(n)	Any other information as may be stipulated by the Agency.		No
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,		No
(b)	where appropriate, a copy of the notice given to a relevant water services authority under Regulation 13,		No
(c)	Such other particulars, drawings, maps, reports and supporting documentation as are necessary to identify and describe, as appropriate -		No
(c) (i)	the point or points, including storm water overflows, from which a discharge or discharges take place or are to take place, and		No
(c) (ii)	the point or points at which monitoring and sampling are undertaken or are to be undertaken,		No
(d)	such fee as is appropriate having regard to the provisions of Regulations 38 and 39.		No

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.		No
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.		No
2	2 hardcopies of application provided or 2 CD versions of application (PDF files) provided.		No
3	1 CD of geo-referenced digital files provided.		No
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**
1	EIA provided if applicable		No
2	2 hardcopies of EIS provided if applicable.		No
3	2 CD versions of EIS, as PDF files, provided.		No
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	Section B1 of the application	Yes
(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,	Not applicable	Yes
(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,	Section B2 of the application	Yes
(d)	state the population equivalent of the agglomeration to which the application relates,	Section A of the application	Yes
(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,	Not applicable	Yes
(f)	specify the content and extent of the waste water discharge, the level of treatment provided and the flow and type of discharge,	Section C1 of the application	Yes
(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,	Section F of the application	Yes
(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,	Section E of the application	Yes
(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,	Attachment E4	Yes
(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,	Section G of the application	Yes
(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,	Not applicable	Yes
(l)	give details of any designation under any Council Directive or Regulations that apply in relation to the receiving waters,	Section G of the application and attachment G	Yes
(m)	give details of compliance with any applicable monitoring requirements and treatment standards,	Section E of the application and attachment E4	Yes
(n)	give details of any work necessary to meet relevant effluent discharge standards and a timeframe and schedule for such work,	Not applicable	Yes
(o)	give any other information as may be stipulated by the Agency, and	Not applicable	Yes
(p)	be accompanied by such fee as is appropriate having regard to the provisions of Regulations 38 and 39.	Section B8(iii) of the application and cover lette	Yes