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08/09/2017

RE: Grenagh Waste Water Discharge Authorisation Application.

Please find attached the Waste Water Discharge Authorisation Application for Grenagh Agglomeration in accordance with the Waste Water Discharge Authorisation Regulations, 2007 (S.I. No. 684 of 2007), as amended.

I confirm that the content of the electronic files on the accompanying CD-ROM is a true copy of the original application form.

There are 2 hard copies and 2 electronic copies of this application. An electronic copy of the digital drawings is included on separate CDROM.

A fee of €10,000 was receipted and made electronically.

I trust the above is satisfactory,

Yours Sincerely,

Sheelagh Flanagan
Environmental Licensing Specialist



**GRENAGH WASTEWATER TREATMENT
WORKS**

**WASTE WATER DISCHARGE LICENCE
APPLICATION**

IRISH WATER

SEPTEMBER 2017

This is a draft document and is subject to revision.



Waste Water Discharge Licence Application Form

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

Environmental Protection Agency
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.
V.7	14/05/2012	Amendments to 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). Update references to new legislation	To accurately reflect the Habitats Regulations 2011 (S.I. No. 477 of 2011) requirements. To reflect changes in legislation

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

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ABOUT THIS APPLICATION FORM

This form is for the purpose of making an application for a Waste Water Discharge Licence under the Waste Water Discharge (Authorisation) Regulations, 2007 as amended, 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 as amended. 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 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 licences, and for the processing of reviews of such licences, appear 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.

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

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

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

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

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

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

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

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 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

On 30th April 2015, Certificate of Authorisation (CoA) No. A0524-01 was issued to Irish Water for the Grenagh agglomeration. The current population for this agglomeration exceeds 500 p.e. Hence a Waste Water Discharge License (WWDL) is required for the Grenagh agglomeration to comply with the Waste Water Discharge (Authorisation) Regulations, 2007 as amended.

The Grenagh agglomeration consists largely of a village with a substantial residential element. The agglomeration is located approximately 16 kilometres north of Cork City and west of the N20 Cork-Mallow road and railway line. The village is surrounded by a large rural hinterland, which forms part of the designated rural Housing Control Zone, where it is an objective generally to restrict individual urban generated houses.

The WWTP is currently operated by EPS Ltd for Irish Water.

The treated wastewater generated from Grenagh currently discharges to the River Martin, which is a tributary of the River Blarney. The River Martin is part of the Lower Lee Owenboy Water Management Unit in the South West River Basin District.

There is one discharge point from the WWTP namely a Primary Discharge (SW1). There is also a stormwater overflow which discharges at the Primary Discharge Point (SW2).

The discharge and sampling locations are listed in Table A.1 and A.2 below.

Table A.1 - Discharge Points:

	Type	Location	Easting 6E	Northing 6N
SW1	Primary Discharge Point	Discharge to River Martin from Grenagh WWTP	158833	084980
SW2	Stormwater Overflow	Discharge to River Martin from Grenagh WWTP	158833	084980

Table A.2 - Monitoring Points:

Type of Point	Location	Easting 6E	Northing 6N
aSW1-u	Upstream Ambient Monitoring	158824	084996
aSW1-d	Downstream Ambient Monitoring	158952	084741
eSW1	Effluent Sampling	158835	084767
iSW1	Influent Sampling	158793	084748

Attachment N^o A.1

SECTION B: GENERAL

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

B.1 Agglomeration Details

Name of Agglomeration: Grenagh

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*:	Irish Water <input type="checkbox"/>
Address:	24 – 26 Colvill House <input type="checkbox"/>
	Talbot Street <input type="checkbox"/>
	Dublin 1 <input type="checkbox"/>
	01 8925000 <input type="checkbox"/>
Tel:	01 8925001 <input type="checkbox"/>
Fax:	Irish Water <input type="checkbox"/>
e-mail:	wastewaterlicensingssouthern@water.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*:	Ken Conroy
Address:	Colvill House
	24 -26 Talbot Street
	Dublin 1
Tel:	01 8925000
Fax:	
e-mail:	wastewaterlicensingssouthern@water.ie

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

Co-Applicant's Details

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

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

Design, Build & Operate Contractor Details

Name*:	EPS Ltd
Address:	Quarterstown Industrial Estate
	Mallow
	Co.Cork
Tel:	022 31200
Fax:	022 31250
e-mail:	info@epsireland.com <input type="checkbox"/>

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

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

Attachment included	Yes	No
	X	

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

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

Name*:	Valarie Hannon
Address:	Grenagh Wastewater Treatment Plant
	Grenagh
	Co.Cork
Grid ref (6E, 6N)	158817E, 084754N
Level of Treatment	Secondary
Primary Telephone:	01 - 8925000
Fax:	-
e-mail:	WasteWaterComplianceSouthern@water.ie

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

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

Attachment included	Yes	No
		X*

*WWTP location is shown in Attachment B.1 Drawing.

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	Outfall Pipe
Unique Point Code	SW1
Location	Discharge to the River Martin
Grid ref (6E, 6N)	158833E, 084980N

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

Attachment included	Yes	No
	X	

B.4 Location of Secondary Discharge Point(s)

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

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

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

Attachment included	Yes	No
		X

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	Outfall Pipe
Unique Point Code	SW2
Location	Discharge to the River Martin
Grid ref (6E, 6N)	158833E, 084980N

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

Attachment included	Yes	No
		X*

**SWO (SW2) is shown in Attachment B.3 Drawing*

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:	Cork County Council
Address:	Planning Department
	Floor 1
	County Hall
	Carrigrohane Road, Cork
Tel:	021-4276891
Fax:	021-4276321
e-mail:	planninginfo@corkcoco.ie

An official record of planning permission granted by Cork County Council for residential development and the WWTP is included in Attachment B.6 of this application.

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

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

Local Authority Planning File Reference N^o:	983907
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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
	X	

B.7 Other Authorities

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

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

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

Within the SFADCo Area	Yes	No
		X

B.7 (ii) Health Services Executive Region

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

Name:	HSE Environmental Health Department
Address:	Floor 3
	26 South Mall
	Co. Cork
Tel:	021-4921801
Fax:	021-4921824
e-mail:	info.hse.ie

B.7 (iii) Other Relevant Water Services Authorities

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

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

Relevant Authority Notified	Yes	No
		X

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

Attachment included	Yes	No
		X

B.8 Notices and Advertisements

Regulations 10 and 11 of the Waste Water Discharge (Authorisation) Regulations, 2007 as amended, 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.

A copy of the public notice and drawing illustrating the location of the public notice is included in Attachment B.8(a) and B.8(b) respectively.

Attachment included	Yes	No
	X	

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.

Table B.9.1

Population Equivalent	592 (2017) 615 (2023)
Data Compiled (Year)	2017
Method	Generated Load Assessment

*Irish model-based estimate using the figure determined by a house count. The p.e. for the agglomerations served by Grenagh WWTP is projected to 2023 using an ESRI rural growth rate of 0.644% for agglomerations.

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 P.E. projected to 2023 for Grenagh WWTP is estimated to be 615 as stated in Table B.9.1 above.

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, as amended.

Class of waste water discharge	Fee (in €)
License Application (Discharges from agglomerations with a population equivalent of 500 to 1,000.)	10,000

Appropriate Fee Included	Yes	No
	X	

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.

There is no upgrade works proposed for the agglomeration under the Irish Water Capital Investment Programme 2017-2021.

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
		X

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 to 2011.

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

Attachment included	Yes	No
		X*

**No section 63 notice has been issued in relation to the waste water works*

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 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
		X*

**No Foreshore License for Grenagh WWTP as it does not discharge to a coastal location.*



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 treatment plant at Grenagh has capacity of 1,400 p.e. and the treatment process is governed by gravity flow through the works. The treatment process includes:

- Mechanical Inlet Screening.
- Gravity overflow to underground storm water storage with pumped return.
- A secondary treatment process based on dual stream activated sludge.
- Fine bubbled diffused aeration system.
- Dual secondary clarifiers complete with rotating half bridge scrapers systems.
- Single sludge storage tank.
- Block built control building.

The WWTP layout is shown in Attachment C.1 of this application.

1. Inlet Screen

Incoming effluent passes through an automatic inlet screen. The screenings are extracted by a screw conveyor and deposited in a skip. The operation of the screen and screw conveyor is controlled by an ultrasonic level sensor.

A solenoid valve will be fixed to the screening unit. The solenoid valve will wash the screenings from the screen as it is running

The sequence of the operation is as follows;

- Inlet screen will start when a high level is detected by the ultrasonic level sensor.
- Screen will run continuously while a high level is present, and will continue to run for a further 5 minutes once the level drops below the high level.
- Screw Conveyor will run while screen runs.

The solenoid valve will open and close on a cycle while the inlet screen runs. It will open for 3 seconds and then close for 6 seconds to give a pulsed wash cycle.

2. Aeration

After the effluent is screened, it passes into an aeration tank. The effluent is aerated via 2 number air blowers arranged in a duty/standby configuration. If the duty blower fails then the standby blower will automatically start. The duty blower will be selectable from a three-position switch located on the control panel. The switch will select the duty blower in the following manner:

- Position 1: Blower 1 Duty
- Position 2: Blower 2 Duty
- Position 3: Cycle

The cycle position will allow automatic duty selection, which will select a different blower to run every second day. In normal operation of the plant the duty blower will run continuously.

Each blower will be fitted with a VSD. A dissolved oxygen monitor fitted in the aeration tank will control the speed of the blower via the VSD. This monitor will provide the VSD with a 4-20mA signal. A potentiometer will be mounted on the panel door to control the speed of the pumps in manual.

Each blower will be fitted with an acoustic hood c/w and an acoustic hood fan. This fan will start automatically with the blower.

3. Storm Tank

In the event of a high incoming flow to the plant, effluent in excess of 3DWF will flow into the storm tank. The storm tank will have two submersible pumps fitted to return effluent for treatment after a high incoming flow has subsided. The pumps are arranged in a duty/standby configuration. If the duty pump fails then the standby pump will automatically start. The duty pump will be selectable from a three-position switch located on the control panel. In case of duty and stand-by pumps failure the stormwater overflow will act as an emergency overflow. The switch will select the duty pump in the following manner:

- Position 1: Pump 1 duty
- Position 2: Pump 2 duty
- Position 3: Cycle

The cycle position will allow automatic duty selection, which will select a different pump to run every second day.

A float switch will be fitted in the storm tank. In the event of a low float condition the duty pump will be inhibited. If a float condition exists the duty pump will be enabled. The duty pump will continue to pump until a low float condition exists in the storm tank or until a high-high level is sensed at the inlet screen.

The speed of the duty motor will be controlled by a VSD. The VSD will adjust the speed according to a 4-20mA signal received from the inlet screen ultrasonic level sensor. A potentiometer will be mounted on the panel door to control the speed of the pumps in manual.

The storm water tank will be periodically washed down utilising wash water from an adjacent sump. The cleaning system solenoid valve opens for a set amount of time (set at commissioning). When the cleaning time has elapsed, the solenoid valve is closed.

4. Clarifier

In the normal operation of the plant the clarifier will run continuously. A manual stop/start button will be provided at the control panel for the clarifier.

5. RAS/WAS Pumps

As part of the biological treatment process, sludge drawn from the bottom of the clarifier is recycled back into the aeration tank. Two RAS/WAS pumps arranged in a duty/standby configuration will return the sludge from the sludge chamber. If the duty pump fails then the standby pump will automatically start. The duty pump will be selectable from a three-position switch located on the control panel. The switch will select the duty pump in the following manner:

- Position 1: Pump 1 duty
- Position 2: Pump 2 duty
- Position 3: Cycle

The cycle position will allow automatic duty selection, which will select a different pump to run every second day. Under normal plant operating conditions, the duty pump will run continuously.

The speed of the duty pump will be controlled by a VSD. A potentiometer will be mounted on the panel door to control the speed of the pumps (pot position to be determined at commissioning).

A low-low float will monitor the level of the sludge in the sludge chamber. If a low-low level exists in the chamber, the RAS pumps will be inhibited.

6. WAS Pumping

By altering the valve arrangement the RAS/WAS pumps can be utilised as WAS pumps and will remove sludge from the sludge chamber to the sludge holding tank for removal from site.

The WAS pumps will be set-up to waste sludge from the sludge chamber once a day for a set time period.

C.1.1 Storm Water Overflows

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

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

There is 1No. stormwater overflow at Grenagh WWTP, which allows discharge to the River Martin from the storm tank when its capacity is being exceeded. Further details provided in table below.

SWO Ref Point Code	Location	Compliant with DoEHLG <i>Procedures and Criteria</i>	Plan to decommission or cease SWO?
SW2	Discharge to River Martin from Grenagh WWTP	Yes	No

C.1.2 Pumping Stations

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

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

There are no pumping stations located on the wastewater network discharging to Grenagh WWTP.

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

Attachment included	Yes	No
	X	

C.2 Outfall Design and Construction

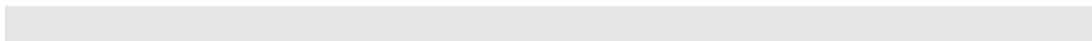
Provide details on the primary discharge point & secondary discharge points and storm overflows to include reference, location, design criteria and construction detail.

The primary discharges from Grenagh WWTP discharges to the River Martin through an open discharge pipe.

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
		X*

**WWTP Site Layout shown in Attachment C.1 of this application.*



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://epa.corasystems.com/EPA_WWD. 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://epa.corasystems.com/EPA_WWD. 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.

Tables D.1 (i) (a)-(c) include data and characteristics analysis for the Primary Discharge emissions to surface waters. Further discussion on this is included in Section E.4 of this application.

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

Attachment included	Yes	No
	X	

D.2 Tabular Data on Discharge Points

Applicants should submit the following information for each discharge point:

Table D.2:

PT_CD	PT_TYPE	RWB_TYPE	RWB_NAME	DESIGNATION	EASTING	NORTHING
SW1	Primary Discharge	River	River Martin	None	158833	084980
SW2	Storm Water Overflow	River	River Martin	None	158833	084980

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://epa.corasystems.com/EPA_WWD.

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://epa.corasystems.com/EPA_WWD.

Information is included in Attachment E.1.

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.

There is no composite sampling or continuous flow monitoring in place at present on any of the discharge points.

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.

The Wastewater Laboratory of Cork County Council is accredited for a number of analytical tests under the Irish National Accreditation Board (INAB) under the ISO 17025 international standard.

The location for the effluent sampling and ambient monitoring points are shown in Attachment B.3.

Attachment included	Yes	No
		X

E.3. Tabular data on Monitoring and Sampling Points

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

PT_CD	PT_TYPE	MON_TYPE	EASTING	NORTHING	VERIFIED
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
eSW1	Primary	S	158835	084767	N
iSW1	Primary	S	158793	084748	N
aSW1-u	Upstream	S	158824	084996	N
aSW1-d	Downstream	S	158952	084741	N

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

E.4 Sampling Data

Regulation 16(1)(h) of the Waste Water Discharge (Authorisation) Regulations 2007 as amended, 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.

The effluent sampling data for Grenagh WWTP is provided in Attachment E.4 of this application.

The effluent sampling data indicates that the treated effluent from the existing WWTP allows the receiving waters to meet the relevant quality objectives and relevant provisions of the Urban Wastewater Directive and other Community Directives.

Attachment E.4 should contain any supporting information.

Attachment included	Yes	No
	X	

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

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

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.

The WFD status for the River Martin stretch (IE_SW_19M010200) adjacent to the WWTP is currently "poor" and is required to achieve "good" status by 2021. It is noted that the River Martin (IE_SW_19M010300) 1.5km downstream of the primary discharge point (SW1) is at "good" status. WAC calculations were carried out to determine the proposed Emission Limit Values (ELVs) required for the receiving waters to achieve good status. The WAC calculations are included in Attachment F.1(a) of this application and the upstream ambient monitoring data included in Attachment F.1(i)(a) of this application was used as a basis for the calculations.

The proposed ELVs for the treated effluent discharges from the existing WWTP are listed in below;

Parameter	Proposed ELVs for Treated Effluent
BOD	≤ 25.0mg/l
COD	≤ 125.0mg/l
Total Suspended Solids	≤ 35.0mg/l
Ammonia (as N)	≤ 7.3mg/l
Orthophosphate (as P)	≤ 3.3mg/l

The existing WWTP has sufficient capacity to treat current and future loads to the standards required in the Urban Wastewater Treatment Regulations (S.I. No.254/2001) as amended.

- Details of all monitoring of the receiving water should be supplied via the following web based link: http://epa.corasystems.com/EPA_WWD. 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.

Regular and Dangerous Substances Monitoring results are compiled in Table F.1(i)(a)&(b) & F.1(ii)(a) in Attachment F.1 for surface water upstream and downstream of the existing Primary Discharge Point. The analytical parameters for both regular and dangerous substances monitoring are also listed in the tables.

- 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.

There are no secondary discharges from this agglomeration.

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

There are no discharges to the ground from this agglomeration.

- 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.

The discharge from Grenagh WWTP discharges into the River Martin which overall status is classified as "Good" under the Lower Lee-Owenboy Water Management Unit (WMU) Plan. However the stretch of the River Martin which extends upstream of the discharges from the WWTP is classified as "Poor" under the current WFD status, and is considered to be due to agricultural sources under the Lower Lee-Owenboy WMU Plan (Link below);

http://www.wfdireland.ie/docs/1_River%20Basin%20Management%20Plans%202009%20-%202015/SWRBD%20RBMP%202010/Water%20Management%20Unit%20Action%20Plans/Lower%20Lee%20Owenboy.pdf

The ambient sampling data obtained in 2012 indicate the water quality of which WWTP discharges to at "Good" status.

- 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 collected flows to Grenagh WWTP from the agglomeration are largely domestic with some industrial influence. The dangerous substances sampling undertaken in 2012 indicates that the discharges from the WWTP is unlikely to impair the environment. There has been no significant change to the agglomeration since 2012.

- 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.

The nearest drinking water abstraction point is located at the Lee Road Waterworks in Cork City, 22 km downstream. A Cryptosporidium Risk Assessment for the Lee Road Waterworks is included in Attachment F.2. The discharges from Grenagh WWTP will not have an effect.

- 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 2011 (S.I. No. 477 of 2011).

Undertake a screening for Appropriate Assessment and state whether the discharge(s), 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 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, as defined in Regulation 2(1) of the European Communities (Birds and Natural Habitats) Regulations (S.I. No. 477 of 2011). Where based on the screening it is considered that an Appropriate Assessment is not required, a reasoned response should be provided.

An AA Screening Assessment has been prepared as part of this application and is included in Attachment F.1 (b). The assessment concluded that the current wastewater discharges from the agglomeration along or in-combination with other plans or projects will not have a significant effect on the Natura 2000 network, and a Stage 2 Appropriate Assessment is not required.

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

There are no mitigation measures proposed for this agglomeration.

- This section should also contain full details of any modelling of discharges from the agglomeration. Full details of the assessment and any other

relevant information on the receiving environment should be submitted as **Attachment F.1.**

No dispersion modelling undertaken for this agglomeration.

Attachment included	Yes	No
	X	

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.

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

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
Unassigned	92615	42390	0400PU B1001	22000	164800	071400	Y

A Cryptosporidium Risk Assessment for the Lee Road Waterworks is included in Attachment F.2. The discharges from Grenagh WWTP will not have an effect.

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 no further improvement works scheduled for the network or the WwTP.

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

Attachment included	Yes	No
		X

G.2 Compliance with 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.

There is no further improvement works scheduled for the network or the WwTP.

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

Attachment included	Yes	No
		X

G.3 Impact Mitigation

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

There is no further improvement works scheduled for the network or the WwTP.

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

Attachment included	Yes	No
		X

G.4 Storm Water 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 amended.

There is no further improvement works scheduled for the network or the WwTP.

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

Attachment included	Yes	No
		X

SECTION H: DECLARATION

Declaration

I hereby make application for a waste water discharge licence/revised licence, 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 or any person acting on the Applicant's behalf.

Signed by : _____
(on behalf of the organisation)

Handwritten signature

Date : 24/08/2017

Print signature name: _____

JOHN CASEY

Position in organisation: _____

A/HEAD OF ASSET MANAGEMENT.

SECTION I: JOINT DECLARATION

Joint Declaration ^{Note1}

I hereby make application for a waste water discharge licence/revised licence, pursuant to the provisions of the Waste Water Discharge (Authorisation) Regulations, 2007 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 or any person acting on the Applicant's behalf.

Lead Authority

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

Print signature name: _____

Position in organisation: _____

Co-Applicants

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

Print signature name: _____

Position in organisation: _____

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

Print signature name: _____

Position in organisation: _____

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