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Ireland

Waste Water Discharge Licence

Licence Register Number:	D0297-02
Licensee:	Irish Water
Company Register Number:	530363
Agglomeration:	Castletownbere

INTRODUCTION

This introduction is not part of the licence and does not purport to be a legal interpretation of the licence.

This licence authorises the waste water discharges from the Castletownbere agglomeration served by a waste water works. The waste water treatment plant (WWTP) will be designed to cater for population equivalent (p.e.) of 2,168 p.e. The WWTP will provide primary treatment. The WWTP will consist of an inlet works with inlet screening, grit removal, stormwater storage tank, primary treatment, sludge thickening and site control facilities. The final effluent will discharge to the Berehaven coastal waterbody. The waste water discharges to water from the Castletownbere agglomeration served by a waste water works include the following: primary discharge and 5 stormwater overflows. The primary discharge will be located at the end of a 120m long sea outfall from the WWTP into the Berehaven coastal waterbody.

The licence sets out in detail the conditions under which Irish Water will control and manage the waste water discharges from the agglomeration covered by this licence.

The legislation governing this licence relates specifically to, and is restricted to, the regulation and control of waste water discharges from the agglomeration. Therefore any odour or noise issue that may be associated with the waste water works including the treatment plant cannot be addressed by this licence.

By virtue of Section 17(4) of the Water Services (No. 2) Act 2013, the application for this licence is deemed to have been made by Irish Water and this licence is granted to Irish Water.

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GLOSSARY OF TERMS

All terms in this licence should be interpreted in accordance with the definitions in the European Union (Waste Water Discharge) Regulations 2007 to 2020, as amended unless otherwise defined in this section.

AER	Annual Environmental Report.
Agglomeration	An area where the population or economic activities or both are sufficiently concentrated for a waste water works to have been put in place.
Agreement	Agreement in writing.
Annually	At least one measurement in any one year.
Application	The application for this licence.
Attachment	Any reference to Attachments in this licence refers to attachments submitted as part of the licence application.
Bi-monthly	At approximately two - monthly intervals.
Biannually	At approximately six – monthly intervals.
Biennially	Once every two years.
BIM	Bord Iascaigh Mhara.
BOD	5 day Biochemical Oxygen Demand (without nitrification suppression).
cBOD	5 day Carbonaceous Biochemical Oxygen Demand (with nitrification suppression).
CEN	Comité Européen De Normalisation – European Committee for Standardisation.
COD	Chemical Oxygen Demand.
Combined Approach	In relation to a waste water works, means the control of discharges and emissions to waters whereby the emission limits for the discharge are established on the basis of the stricter of either or both, the limits and controls required under the Urban Waste Water Regulations, and the limits determined under statute or Directive for the purpose of achieving the environmental objectives established for surface waters, groundwater or protected areas for the water body into which the discharge is made.
Competent Laboratory	A testing facility meeting the general management and technical requirements of EN ISO/IEC-17025 standard, or other equivalent standards accepted at international level and utilising methods of analysis, including laboratory, field, and on-line methods, which are validated and documented in accordance with the above standards for the specific tests.
Daily	During all days when discharges are taking place; with at least one measurement/observation per day.

Day	Any 24 hour period.
Discharge Limits	Those limits, specified for a particular parameter in <i>Schedule A: Discharges & Discharge Monitoring</i> , of this licence.
Discharge Point	The point from which a waste water discharge occurs.
DO	Dissolved oxygen.
Documentation	Any report, record, result, data, drawing, proposal, interpretation or other document, in written or electronic form, that is required by this licence.
DoECLG	Department of the Environment, Community and Local Government.
Domestic Waste Water	Waste water from residential settlements and services that originates predominantly from human metabolism and from household activities.
Drawing	Any reference to a drawing or drawing number means a drawing or drawing number contained in the application, unless otherwise specified in this licence.
ELV	Emission Limit Value.
EMP	Environmental Management Programme.
Environmental Damage	As defined in Directive 2004/35/EC.
Environmental Pollution	<p>Means, in relation to waste water discharges, the direct or indirect introduction, as a result of human activity, of waste water discharges, substances (including any explosive, liquid or gas) or polluting matter (including any poisonous or noxious matter) into waters which may endanger human health or harm the aquatic environment, and in particular:</p> <ul style="list-style-type: none">(i) create a risk to waters, sediment, plants or animals.(ii) deleteriously interfere with the quality of aquatic ecosystems or terrestrial ecosystems directly depending on aquatic ecosystems including by:<ul style="list-style-type: none">• Rendering those or any other waters poisonous or injurious to fish, shellfish, spawning grounds or the food of any fish, or• Impairing the usefulness of the bed and soil of any waters as spawning grounds or impairing their capacity to produce the food of fish or shellfish,(iii) impair or interfere with amenities and other legitimate uses of the water, or(iv) result in water failing to meet any environmental quality standards prescribed in regulations for the purposes of giving effect to the requirements of any Directive relating to the quality or use of water for the time being in force.
EPA	Environmental Protection Agency.
Fortnightly	A minimum of 24 times per year, at approximately two week intervals.

GC/MS	Gas chromatography/mass spectroscopy.
ICP	Inductively coupled plasma spectroscopy.
Incident	The following shall constitute an incident for the purposes of this licence: (i) any discharge that does not comply with the requirements of this licence; (ii) any discharge or occurrence with the potential for environmental contamination of surface water or groundwater, or posing an environmental threat to land, or requiring an emergency response by the licensee and/or the relevant authorities.
Industrial Waste Water	Any waste water that is discharged from premises used for carrying on any trade or industry or other non-domestic use and excludes run-off rain water.
Interim ELV	Interim Emission Limit Value means an emission limit value that applies to a discharge for the period between the date of grant of licence and the date specified for the emission limit value to take effect.
Licensee	Irish Water, Colvill House, 24/26 Talbot Street, Dublin 1, Company Register Number 530363, as by virtue of Section 17(4) of the Water Services (No. 2) Act 2013, the application for this licence is deemed to have been made by Irish Water and this licence is granted to Irish Water.
Licensing Regulations	European Union (Waste Water Discharge) Regulations 2007 to 2020, as amended.
Local Authority	Cork County Council.
Maintain	Keep equipment, plant and infrastructure in a fit state, including such regular inspection, servicing, calibration and repair as may be necessary to perform its function.
Mass Flow Limits	An emission limit value expressed as the maximum mass of a parameter that can be emitted per day.
Monthly	A minimum of 12 times per year, at intervals of approximately one month.
National Environmental Complaints Procedure	As established under the National Environmental Enforcement Network.
Population Equivalent	A measurement of organic biodegradable load and a population equivalent of 1 (1 p.e.) means the organic biodegradable load having a five-day biochemical oxygen demand (BOD5) of 60g of oxygen per day; the load being calculated on the basis of the maximum average weekly load entering the waste water works during the year, excluding unusual situations such as those due to heavy rain.
Priority Substances	Those substances, or groups of substances, identified in accordance with Article 16(2) of the Water Framework Directive and listed in Annex I of Priority Substances Directive 2013/39/EU, for which measures have to be

	taken in accordance with Article 16(1) and 16(8) of the Water Framework Directive.
Primary Discharge	The discharge with the largest volume being discharged from the waste water works.
Primary Treatment	Treatment of urban waste water by a physical and/or chemical process involving settlement of suspended solids, or other processes in which the BOD5 of the incoming waste water is reduced by at least 20% before discharge and the total suspended solids of the incoming waste water are reduced by at least 50%.
Protected Areas	Areas designated as requiring special protection under specific Community legislation for the protection of their surface water and groundwater or for the conservation of habitats and species of European sites directly dependant on water and listed in the register established by the Agency in accordance with Article 8 of the Water Policy Regulations.
PRTR	Pollutant Release and Transfer Register.
Quarterly	All or part of a period of three consecutive months beginning on the first day of January, April, July or October.
SAC	Special Area of Conservation designated under the <i>Habitats Directive</i>, Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora.
Samples	Unless the context of this licence indicates to the contrary, the term samples shall include measurements taken by electronic instruments.
Secondary Discharge	A potential, occasional or continuous discharge from the waste water works other than a primary discharge or a storm water overflow.
SFPA	Sea Fisheries Protection Authority.
SPA	Special Protection Area designated under the <i>Birds Directive</i>, Directive 2009/147/EC of the European Parliament and of the Council of 30 November 2009 on the conservation of wild birds.
Specified Discharges	Those discharges listed in <i>Schedule A: Discharges & Discharge Monitoring</i> , of this licence.
Standard Method	A relevant CEN, ISO, National, or other internationally recognized test procedure such as detailed in the current edition of "Standard Methods for the Examination of Water and Wastewater" (published jointly by A.P.H.A. / A.W.W.A. / W.E.F.), a documented and validated in-house procedure based on the above sources that will ensure the provision of data of an equivalent scientific quality, or an alternative method as may be agreed with the Agency.
Storm Water Overflow	A structure or device on a sewerage system designed and constructed for the purpose of relieving the system of excess flows that arise as a result of rain water or melting snow in the sewered catchment, the excess flow being discharged to receiving waters.

The Agency	Environmental Protection Agency.
Unusual Weather Conditions	<p>In relation to waste water discharges unusual weather conditions, means any one or combination of the following:</p> <ul style="list-style-type: none">(i) heavy rainfall >50 mm in 24 hrs, >40 mm in 12 hrs, >30 mm in 6 hrs (i.e. Met Eireann Orange Alert criteria or greater);(ii) low ambient temperatures as evidenced by effluent temperature of 5° C or less or by the freezing of mechanical equipment in the works;(iii) significant snow deposits;(iv) tidal or fluvial flooding; <p>weather conditions causing unforeseen loss of power supply to the waste water treatment plant which could not be ameliorated by the reasonable provision and operation of standby generation facilities.</p>
Waste Water	Domestic waste water or the mixture of domestic waste water with industrial waste water.
Waste Water Works	Sewers and their accessories (or any part thereof) and all associated structural devices, including waste water treatment plants, which are owned by, vested in, controlled or used by the licensee for the collection, storage, treatment or discharge of waste water.
Weekly	During all weeks when discharges are taking place; with at least one measurement in any one week.
WSIP	Water Services Investment Programme.
WWTP	Waste water treatment plant.

DECISION & REASONS FOR THE DECISION

The Environmental Protection Agency is satisfied, on the basis of the information available, that subject to compliance with the conditions of this licence, any discharges from the agglomeration served by the waste water works will comply with and will not contravene any of the requirements of Regulation 6 of the European Union (Waste Water Discharge) Regulations 2007 to 2020.

The Agency has accordingly decided to grant a licence to **Irish Water** to carry on the waste water discharges listed in *Part I: Schedule of Discharges Licensed*, subject to the conditions set out in *Part II: Conditions*; such licence to take effect in lieu of Licence Register Number: **D0297-01**.

In reaching this decision the Agency has had regard to the requirements and objectives of the European Union (Waste Water Discharge) Regulations 2007 to 2020 and has considered the documentation relating to:

- the existing licence, Register Number: **D0297-01**
- the **review** application, Register Number: **D0297-02** and the supporting documentation received from the applicant;
- **the submissions received;**
- the Inspector's Report dated **29th September 2022;**

and has carried out an Environmental Impact Assessment (EIA) Screening and an Appropriate Assessment Screening of the likely significant effects of the authorised waste water discharges on European Sites.

EIA was not required due to the following reasons:

- 1. The limited scale of the waste water discharges from the wastewater treatment plant. The wastewater treatment plant serves an agglomeration with a population equivalent (p.e) of 2,169 which is significantly below the 10,000 p.e. mandatory threshold for EIA.**
- 2. Residential wastewater is the largest contributor to the waste water treatment plant and is readily biodegradable.**
- 3. Waste water is treated prior to discharge to the receiving water in settlement tanks and a sludge management system.**
- 4. With regard to European sites, the potential effects the discharges may have on European Sites and their qualifying interests will be assessed under the Habitats Directive (Appropriate Assessment).**
- 5. If a revised waste water discharge licence is granted for the Castletownbere agglomeration, the emission limit values set in the licence will be established according to the combined approach and will contribute to the achievement of the environmental objectives and environmental quality standards for the receiving waterbody.**
- 6. The cumulative effects with other existing discharges are not likely to give rise to significant effects on the environment.**

A screening for Appropriate Assessment was undertaken to assess, in view of best scientific knowledge and the conservation objectives of the site, if the waste water discharges individually or in combination with other plans or projects are likely to have a significant effect on any European Site. In this context, particular attention was paid to the European Sites at

- 1. Kenmare River SAC (Site Code: 002158)**
- 2. Glanmore Bog SAC (Site Code: 001879)**
- 3. Beara Peninsula SPA (Site Code: 004155)**
- 4. Sheep's Head SAC (Site Code: 000102)**

5. **Sheep's Head to Toe Head SPA (Site Code: 004156)**
6. **Caha Mountains SAC (Site Code: 000093)**
7. **Glengarriff Harbour and Woodland SAC (Site Code: 000090)**

The waste water discharges are not directly connected with or necessary to the management of any European Site and the Agency considered, for the reasons set out below, that it can be excluded, on the basis of objective information, that the waste water discharges individually or in combination with other plans or projects, will have a significant effect on any European Site and accordingly determined that an Appropriate Assessment of the waste water discharges was not required.

This determination is based on the fact that there is no hydrological or hydrogeological connection between the proposed discharges and the qualifying interests of Glanmore Bay SAC, Sheep's Head SAC, Caha Mountains SAC and Glengarriff Harbour and Woodland SAC and due to the distance between these SACs and the proposed discharges. Kenmare River SAC is hydrologically connected to the proposed discharges but the discharges are too distant (22km) to affect qualifying interests of the site. This determination is also based on the fact that the proposed discharges will not affect the population trend or the productivity rate of any qualifying interest species of the Beara Peninsula SPA or the Sheep's Head to Toe Head SPA. The breeding sites and habitats of the qualifying interest species will not be disturbed due to the proposed discharges. This determination is also based on the fact that Berehaven coastal waters (IE_SW_180_0000) into which the proposed wastewater treatment plant will discharge is currently assigned 'Good' water quality status under the Water Framework Directive (WFD) and the proposed discharges will result in a positive impact the receiving water quality. This determination is also based on the small volume of proposed discharges from the agglomeration into a coastal environment with a positive dilution factor.

PART I: SCHEDULE OF DISCHARGES LICENSED

In pursuance of the powers conferred on it by the European Union (Waste Water Discharge) Regulations 2007 to 2020, the Environmental Protection Agency (the Agency), under Regulation 28(1) of the said Regulations grants this Waste Water Discharge Licence **Review** to Irish Water, Colvill House, 24/26 Talbot Street, Dublin 1, Company Register Number 530363. The licence authorises the discharge of waste water from the waste water works servicing the **Castletownbere** agglomeration described below, subject to conditions listed in Part II, with the reasons therefore and the associated schedules attached thereto.

*Licensed Discharges, in accordance with the Second Schedule
of the European Union (Waste Water Discharge) Regulations 2007 to 2020, as amended*

Discharges from agglomerations with a population equivalent of 2,001 to 10,000
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PART II: CONDITIONS

Condition 1. Scope

1.1 Statutory Obligations

This licence is for the purposes of Waste Water Discharge licensing under the European Union (Waste Water Discharge) Regulations 2007 to 2020, as amended, only and nothing in this licence shall be construed as negating the licensee's statutory obligations or requirements under any other enactments or regulations.

1.2 The agglomeration served by the waste water works is the area outlined in **red** on Drawing No. **03-02-001 entitled Agglomeration Plan** of the application. The population equivalent of the agglomeration served by a waste water works shall not exceed **2,168**.

1.3 The discharges to waters from the waste water works shall be restricted to those listed and described in *Schedule A: Discharges and Discharge Monitoring*, of this licence and shall be as set out in the licence application or as modified under **Condition 1.6** of this licence and subject to the conditions of this licence. There shall be no other discharges of environmental significance.

1.4 The discharges to waters from the waste water works shall be controlled and managed and shall take place as set out in this licence. All programmes required to be carried out under the terms of this licence become part of this licence.

1.5 For the purposes of this licence, the locations of the waste water discharges authorised by this licence are as presented on Drawing No. **03-02-004 entitled Primary Discharge Point and 03-02-006 entitled Stormwater Overflow** of the application.

1.6 No alteration to the waste water works or any part thereof that would, or is likely to, result in a material change to or increase in discharges sufficient to represent a risk of causing a breach of emission standards specified in the licence shall be carried out or commenced without prior notice to, and without the agreement of, the Agency.

1.7 Treatment Capacities

1.7.1 The licensee shall, on an annual basis, undertake an assessment of the remaining organic and hydraulic treatment capacities within the waste water works (design capacity of plant, less flow-load calculation for representative period).

1.7.2 The licensee shall maintain such available capacity within the waste water works as is necessary to ensure that there is no environmental risk posed to the receiving water environment as a result of the discharges.

1.7.3 Where the licensee determines, as part of those assessments undertaken in **Condition 1.7.1** above, that the remaining treatment capacity will be exceeded within the ensuing three year period, the licensee shall notify the Agency and seek a licence review, as appropriate.

1.8 This licence has been granted in substitution for licence granted to the licensee on **01/03/2011** (Register No.: **D0297-01**). The previous Waste Water Discharge licence (Reg. No. **D0297-01**) is superseded by this revised licence. Where the Agency grants a revised licence, the previous licence or revised licence, as the case may be, applying to the discharge from the waste water works concerned, shall stand revoked.

1.9 For the purposes of this licence the waste water treatment plant associated with the waste water works serving the agglomeration is located at grid reference (**ING**) **67579E, 45192N**. The licensee shall ensure that the waste water treatment plant provides at least **primary treatment consisting of screening, primary settlement and stormwater storage**.

Reason: To clarify the scope of this licence.

Condition 2. Interpretation

- 2.1 Emission limit values for discharges to waters in this licence shall be interpreted in the following way:
- 2.1.1 Composite Sampling
- 2.1.1.1 No pH value shall deviate from the specified range.
- 2.1.1.2 For cBOD and COD, no more than the relevant number of samples specified in *Schedule A.4: Interpretation of Discharge Monitoring Results*– Column 2 or Column 4, of this licence, shall exceed the concentration Emission Limit Value based on the number of samples taken as listed in *Schedule A.4: Interpretation of Discharge Monitoring Results*– Column 1 or Column 3, of this licence. No individual result similarly calculated shall exceed the emission limit value by more than 100%.
- 2.1.1.3 For Suspended Solids, no more than the relevant number of samples specified in *Schedule A.4: Interpretation of Discharge Monitoring Results*– Column 2 or Column 4, of this licence, shall exceed the concentration Emission Limit Value based on the number of samples taken as listed in *Schedule A.4: Interpretation of Discharge Monitoring Results*– Column 1 or Column 3, of this licence. No individual result similarly calculated shall exceed the emission limit value by more than 150%.
- 2.1.1.4 For parameters other than pH, cBOD, COD, Suspended Solids no more than the relevant number of samples specified in *Schedule A.4: Interpretation of Discharge Monitoring Results* – Column 2 or Column 4, of this licence, shall exceed the concentration Emission Limit Value based on the number of samples taken as listed in *Schedule A.4: Interpretation of Discharge Monitoring Results* – Column 1 or Column 3, of this licence. No individual result similarly calculated shall exceed the emission limit value by more than 20%.
- 2.1.1.5 Mass flow emissions shall be calculated on the basis of the average concentration over a 24-hour period, multiplied by the flow over the same period. No value, so determined, shall exceed the mass flow emission limit value.
- 2.1.2 Discrete Sampling
- No cBOD or COD grab sample value shall exceed the concentration emission limit value by more than 100% and no Suspended Solids grab sample value shall exceed the concentration emission limit value by more than 150%. For all other parameters, except pH, no grab sample value shall exceed the emission limit value by more than 20%.
- 2.2 No sample of the discharge taken at a time when unusual weather conditions are adversely affecting the operation of the waste water treatment plant, shall be taken into account in determining compliance with Conditions 2.1 of this licence. A replacement sample shall be taken within 72 hours of cessation of the unusual weather conditions. The licensee shall report the sample result including any justification of the basis for excluding the sample in the Annual Environmental Report.
- 2.3 On any occasion where unusual weather conditions affect the operation of the waste water works the licensee shall use its best endeavours to mitigate the effect of the unusual weather conditions.

Reason: To clarify the interpretation of limit values fixed under the licence.

Condition 3. Discharges

- 3.1 No discharges from the waste water works are permitted save under and in accordance with this licence.
- 3.2 No specified discharge from the waste water works shall exceed the emission limit values set out in *Schedule A: Discharges and Discharge Monitoring*, of this licence, subject to the requirements of Condition 2 above.
- 3.3 The licensee shall take such measures as are necessary to ensure that no deterioration in the quality of the receiving waters shall occur as a result of the discharge.
- 3.4 There shall be no discharge from the discharge points specified in *Schedule C.2: Discharges to be Discontinued*, of this licence, from the dates specified therein.
- 3.5 Storm Water Overflows
- 3.5.1 Storm water overflows shall be as specified in *Schedule A.3: Storm Water Overflows*, of this licence. The licensee shall carry out an investigation to identify any additional storm water overflows within the waste water works as part of the programme of improvements. The Agency shall be notified in writing of any additional storm water overflows not listed in *Schedule A.3 Storm Water Overflows*, of this licence.
- 3.5.2 All storm water overflows shall be in compliance with the criteria for storm water overflows, as set out in the DoECLG '*Procedures and Criteria in Relation to Storm Water Overflows*', 1995 and any other guidance as may be specified by the Agency.
- 3.5.3 Discharges from storm water overflows shall not cause environmental pollution.
- 3.6 The licensee shall ensure that all or any of the following:
- Gross solids
 - Litter
- associated with discharges from the waste water works do not result in an impairment of, or an interference with, amenities or the environment.

<p>Reason: To provide for the protection of the receiving environment by way of control and limitation of discharges to the Berehaven Coastal Waterbody. To provide for the protection of the receiving environment including designated shellfish waters by way of control and limitation of discharges to the marine environment.</p>
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Condition 4. Control and Monitoring

- 4.1 The licensee shall carry out such sampling, analyses, measurements, examinations, maintenance and calibrations as set out below and in accordance with *Schedule A: Discharges and Discharge Monitoring*, of this licence.
- 4.1.1 Analyses shall be undertaken by competent staff in accordance with documented operating procedures. Analysis for compliance purposes, including any sub-contracted analysis, shall be done by a competent laboratory.
- 4.1.2 Such procedures shall be assessed for their suitability for the test matrix and performance characteristics shall be determined.
- 4.1.3 Such procedures shall be subject to a programme of Analytical Quality Control, verified by a competent third party using control standards with evaluation of test responses.
- 4.2 The licensee shall ensure that:
- 4.2.1 Sampling and analysis for all parameters listed in the Schedules to this licence, and
- 4.2.2 Any reference measurement methods to calibrate automated measurement system shall be carried out by an appropriate Standard Method.
- 4.3 The licensee shall install on all emission points such sampling points or equipment, including any data-logging or other electronic communication equipment, as may be required by the Agency. All such equipment shall be consistent with the safe operation of all sampling and monitoring systems.
- 4.4 All automatic monitors and samplers shall be functioning at all times (except during maintenance and calibration) when the discharges are being made unless alternative sampling or monitoring has been agreed in writing by the Agency for a limited period. In the event of the malfunction of any continuous monitor, the licensee shall contact the Agency as soon as practicable and alternative sampling and monitoring facilities shall be put in place. Agreement for the use of alternative equipment, other than in emergency situations, shall be obtained from the Agency.
- 4.5 Monitoring and analysis equipment shall be operated and maintained as necessary so that monitoring accurately reflects the discharge (or ambient conditions where that is the monitoring objective).
- 4.6 The licensee shall clearly label and provide safe and permanent access to all on-site sampling and monitoring points and to off-site points as required by the Agency.
- 4.7 The licensee shall ensure that a person in charge or a nominated deputy shall be available to meet with authorised persons of the Agency at all reasonable times and shall allow access to the waste water works or other premises that the Agency reasonably considers may contain information pertaining to a discharge from those works.
- 4.8 The licensee shall **maintain** corrective action procedures. In the event of an incident and/or should the specified requirements of this licence not be fulfilled, the licensee shall take corrective action as soon as practicable.
- 4.9 The licensee shall **maintain** a programme for maintenance and operation of all plant and equipment to ensure that no unauthorised waste water discharges take place. This programme shall be based on the instructions issued by the manufacturer/supplier or installer of the equipment. Appropriate record keeping and diagnostic testing shall support this maintenance programme. The licensee shall clearly allocate responsibility for the planning management and execution of all aspects of this programme to appropriate personnel.

- 4.10 The location, frequency, methods and scope of monitoring, sampling and analyses, as set out in this licence, may be amended with the agreement of the Agency following evaluation of test results.
- 4.11 The licensee shall prepare a PRTR report for the primary and secondary discharges. The substances to be included in the PRTR shall be as agreed by the Agency each year by reference to EC Regulation No. 166/2006 concerning the establishment of the European Pollutant Release and Transfer Register and amending Council Directives 91/689/EEC and 96/61/EC. The PRTR shall be prepared in accordance with any relevant guidelines issued by the Agency and shall be submitted electronically in specified format and as part of the AER.
- 4.12 The licensee shall, **maintain** a Data Management System for collation, archiving, assessing and graphically presenting the monitoring data generated as a result of this licence.
- 4.13 The licensee shall carry out **monthly** monitoring of the influent stream to the waste water treatment plant for cBOD; COD; Suspended Solids in order to measure the mass loadings and removal efficiencies within the treatment plant.
- 4.14 Prior to submitting ambient monitoring data, the licensee must consult with the Agency with regard to the appropriate format for submittal.
- 4.15 Where such ambient monitoring results are available from any other statutory body, including the Agency, the licensee may submit those results in fulfilment of the requirements of *Schedule B: Ambient Monitoring*, of this licence.
- 4.16 The licensee shall provide a composite sampler on the primary waste water discharge monitoring point listed in *Schedule A.1: Primary Waste Water Discharge, and Monitoring*, of this licence. All samples shall be collected on a 24-hour flow proportional or time based composite sampling basis.
- 4.17 The licensee shall record the total effluent volume discharged over the 24-hour period in which any composite sample is collected.
- 4.18 The licensee shall provide an annual statement as to the measures taken or adopted to minimise environmental damage associated with discharges or overflows from the waste water works following anticipated events or accidents/incidents.

<p>Reason: To provide for the protection of the receiving environment by way of control and monitoring of discharges.</p>
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Condition 5. Programmes of Improvements

- 5.1 The licensee shall, as a part of the second AER (required under **Condition 6.8**), prepare and submit to the Agency a programme of improvements to maximise the effectiveness and efficiency of the waste water works in order to:
- 5.1.1 Achieve improvements in the quality of all discharges from the works;
 - 5.1.2 Meet the emission limit values specified in *Schedule A: Discharges and Discharge Monitoring*, of this licence;
 - 5.1.3 Give effect to Regulation 2 of the European Union (Waste Water Discharge) Regulations 2007 to 2020, as amended;
 - 5.1.4 Reduce Total Phosphorus loadings in the discharge to the maximum practicable extent;
 - 5.1.5 Reduce Total Nitrogen loadings in the discharge to the maximum practicable extent;
 - 5.1.6 Meet the obligations of **Condition 1.7**;
 - 5.1.7 Identify measures to minimise any environmental damage associated with discharges or overflows from the waste water works following anticipated events or accidents/incidents.
- 5.2 The programme of improvements referred to in **Condition 5.1** shall include an assessment of:
- 5.2.1 The waste water treatment plant, having regard to the effectiveness of the treatment provided by reference to the following:
 - 5.2.1.1 The existing level of treatment, capacity of treatment plant and associated equipment;
 - 5.2.1.2 The emission limit values specified in *Schedule A: Discharges and Discharge Monitoring*, of this licence;
 - 5.2.1.3 Designations of the receiving water body;
 - 5.2.1.4 Water quality objective for the receiving water body;
 - 5.2.1.5 The standards and volumetric limitations applied to any industrial waste water that is licensed to discharge to the waste water works.
 - 5.2.2 The integrity of the waste water works having regard to:
 - 5.2.2.1 Capacity of the waste water works;
 - 5.2.2.2 Leaks from the waste water works;
 - 5.2.2.3 Infiltration by surface water;
 - 5.2.2.4 Infiltration by groundwater;
 - 5.2.2.5 Such other aspects of the works as may be specified by the Agency.
 - 5.2.3 All storm water overflows associated with the waste water works to determine the effectiveness of their operation and in particular to identify improvements necessary to comply with the requirements of this licence.
 - 5.2.4 Review the Operation and Maintenance Programme required by **Condition 4.9** as part of the assessments required under **Condition 5.2.1** to **5.2.3** to prevent incidents associated with discharges from the waste water works.

- 5.3 The programme of improvements shall include a plan for implementation for each individual improvement identified. The plan for implementation shall in the case of the assessment carried out under Condition 5.2:
- 5.3.1 Identify, evaluate and describe the works necessary to implement those works listed under *Schedule C: Specified Improvement Programme*, of this licence;
 - 5.3.2 Clearly identify and describe the improvement and the timeframe for implementation;
 - 5.3.3 Specify the parametric emissions that will be affected by the implementation of the improvement;
 - 5.3.4 Identify the anticipated improvements in the quality of the receiving waters as a result of the implementation of the improvement.
- 5.4 The licensee shall put in place a programme of measures for the gathering, recording and retention of information in relation to the infrastructural components of the waste water works. This information shall be in the form of "As-Constructed" drawings and electronic mapping tools, or in any other format as required by the Agency.

<p>Reason: To provide for the improvement of the waste water works on a planned basis having regard to the need for on-going assessment, recording and reporting of matters affecting the receiving water environment.</p>

Condition 6. Notifications, Records and Reports

- 6.1 The licensee shall notify the Agency's headquarters in Wexford, or to such other Agency office, as soon as practicable after the occurrence of any incident (as defined in this licence). This notification shall be in such format as specified in Guidance to Licensees/COA holders on the Notification, Management and Communication of Environmental Incidents issued by the Agency and as a minimum shall include the following: the date, time, location, details, nature, cause, extent and ranking of the incident, details on any vulnerable receptors, corrective action taken and plans to prevent a reoccurrence, and the steps taken to minimise any discharges and to carry out any necessary environmental cleanup. The following shall also be notified, as soon as practicable after the occurrence of any incident:
- 6.1.1 **Department of Agriculture, Food and the Marine** in the case of discharges to receiving waters.
- 6.1.2 **Marine Institute (MI), Sea Fisheries Protection Authority (SFPA), Food Safety Authority of Ireland (FSAI) and An Bord Iascaigh Mhara (BIM)** in the case of discharges to or likely to impact a designated shellfish water.
- 6.2 The licensee shall record all complaints of an environmental nature related to the discharges to waters from the waste water works in accordance with the national environmental complaints procedure. Each such record shall give details of the date and time of the complaint, the name of the complainant (if provided), and the nature of the complaint. A record shall also be kept of the response made in the case of each complaint.
- 6.3 The licensee shall record all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this licence.
- 6.4 The licensee shall as a minimum keep the following documents at the headquarters of the licensee or such office as may be agreed by the Agency:
- 6.4.1 The licence application and all associated documentation;
- 6.4.2 The licences relating to the discharges to waters from the waste water works;
- 6.4.3 The previous year's AER;
- 6.4.4 Records of all risk assessments, sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this licence and guidance produced by the Agency;
- 6.4.5 Relevant correspondence with the Agency;
- 6.4.6 Up to date drawings/plans showing the location of key process and environmental infrastructure, including monitoring locations and discharge points;
- 6.4.7 Up to date operational procedures for all monitoring and control equipment necessary to give effect to this licence.
- This documentation shall be available to the Agency for inspection at all reasonable times and shall be submitted to the Agency, as required, in such a format as may be requested, including electronic submittal of the information or a summary of such information.
- 6.5 The licensee shall, within six months of date of grant of this licence, ensure that a documented Emergency Response Procedure is in place, that addresses any emergency situation that may originate on-site. This procedure shall include provision for minimising the effects of any emergency on the environment. This procedure shall be reviewed annually and updated as necessary.
- 6.6 The licensee shall **maintain** a Public Awareness and Communications Programme to ensure that members of the public **can obtain** at all reasonable times, environmental information relating to the discharge.

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- 6.7 Unless otherwise agreed by the Agency, all reports and notifications submitted to the Agency shall:
- 6.7.1 Be sent to Administration, Office of Environmental Enforcement (OEE) at the Agency's Headquarters or to such other Agency office agreed by the Agency;
 - 6.7.2 Comprise one original and two copies unless additional copies are required by the Agency;
 - 6.7.3 Be formatted in accordance with any written instruction or guidance issued by the Agency;
 - 6.7.4 Include whatever information may be required by the Agency;
 - 6.7.5 Be identified by a unique code, indicate any modification or amendment, and be correctly dated to reflect any such modification or amendment;
 - 6.7.6 Be accompanied by a written interpretation setting out their significance in the case of all monitoring data; and
 - 6.7.7 Be transferred electronically to the Agency's computer system if required by the Agency.
- 6.8 The licensee shall submit to the Agency, by the 28th February of each year, an AER covering the previous calendar year. This report, which shall be to the satisfaction of the Agency, shall include as a minimum the information specified in *Schedule D: Annual Environmental Report*, of this licence and shall be prepared in accordance with any relevant guidelines issued by the Agency. The content of the AER may be revised subject to the agreement of the Agency.
- 6.9 All reports shall be certified accurate and representative by an employee of Irish Water or a nominated, suitably qualified and experienced deputy.
- 6.10 The licensee shall notify the Agency, as soon as is practicable, where a discharge from the waste water works has ceased permanently.

Reason: To provide for the collection and reporting of adequate information on the activity.

Condition 7. Financial Charges and Provisions

7.1 Agency Charges

7.1.1 The licensee shall pay to the Agency such sum, as the Agency from time to time determines, having regard to variations in the extent of reporting, auditing, inspection, sampling and analysis or other functions carried out by the Agency, towards the cost of monitoring the discharge as the Agency considers necessary for the performance of its functions under the European Union (Waste Water Discharge) Regulations 2007 to 2020, as amended. All such payments shall be made within one month of the date upon which demanded by the Agency.

7.1.2 In the event that the frequency or extent of monitoring, investigations or other functions carried out by the Agency needs to be increased, the licensee shall contribute such sums as determined by the Agency to defray its costs in regard to items not covered by the said annual contribution.

<p>Reason: To provide for the adequate financing for monitoring and financial provisions for measures to protect the environment.</p>
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SCHEDULE A: DISCHARGES & DISCHARGE MONITORING

A.1: Primary Waste Water Discharge & Monitoring

A.1.1 Primary Waste Water Discharge					
EDEN Code	Licence Code	Discharge Location	Monitoring Location	Receiving Water Name	WFD Code Receiving Water
TPEFF3900D0297SW007	SW001	E 67756 N 45122	E 68111 N 45853	Berehaven	IE_SW_180_0000

Discharge Emission Limit Values and Monitoring					
Parameter	Discharges		Monitoring		
	Units	ELV (or % Reduction) Note 1	Monitoring Frequency	Sampling Method	Analysis Method / Technique
Flow Rate	<i>m³/24 hours</i>	-	Continuous	Online	Online Flow Probe Meter with Recorder
pH	<i>pH units</i>	6-9	Continuous	Continuous	pH Meter and recorder
Suspended Solids	%	50 % Reduction	Monthly	Composite	Standard Method
Visual Inspection	<i>Descriptive</i>	-	Daily	Grab	Standard Method
BOD, 5 days with Inhibition (Carbonaceous BOD)	%	20 % Reduction	Monthly	Composite	Standard Method
Dissolved Inorganic Nitrogen (as N)	<i>mg/l</i>	54	Monthly	Composite	Standard Method
	<i>kg/day</i>	26.35			

Note 1 Where a % Reduction figure is specified, this refers to the minimum percentage reduction relative to the influent load.

A.2: Secondary Waste Water Discharges & Monitoring

There shall be no Secondary Waste Water Discharges associated with this agglomeration.

A.3: Storm Water Overflows

A.3.1 Storm Water Overflows					
EDEN Code	Licence Code	Discharge Location	Storm Water Overflow Location	Name of Receiving Water	WFD Code Receiving Water
TPEFF0500D0297SW002	SW002	E 68347 N 46339	E 68345 N 46311	Berehaven	IE_SW_180_0000
TPEFF0500D0297SW003	SW003	E 68614 N 46024	E 68613 N 46026	Berehaven	IE_SW_180_0000
TPEFF0500D0297SW004	SW004	E 67654 N 45745	E 67676 N 45752	Berehaven	IE_SW_180_0000
TPEFF3900D0297SW011	SW005	E 67754 N 45853	E 67754 N 45853	Berehaven	IE_SW_180_0000
TPEFF3900D0297SW012	SW006	E 67756 N 45122	E 67756 N 45122	Berehaven	IE_SW_180_0000

A.4 Interpretation of Discharge Monitoring Results

A.4 Interpretation of Discharge Monitoring Results			
No. of Samples taken in any one year ^{Note 1}	Max. number of samples which may exceed ELV	No. of Samples taken in any one year ^{Note 1}	Max. number of samples which may exceed ELV
4-7	1	172-187	14
8-16	2	188-203	15
17-28	3	204-219	16
29-40	4	220-235	17
41-53	5	236-251	18
54-67	6	252-268	19
68-81	7	269-284	20
82-95	8	285-300	21
96-110	9	301-317	22
111-125	10	318-334	23
126-140	11	335-350	24
141-155	12	351-365	25
156-171	13		

Note 1: Where the licensee has taken samples which exceed the number specified in this Schedule, the licensee shall submit to the Agency all results of analysis.

SCHEDULE B: AMBIENT MONITORING

B.1: Groundwater Monitoring

There is no ground water monitoring required in this licence.

B.2: Receiving Water Monitoring

B.2.1 Receiving Water Monitoring							
EDEN Code	Licence Code	Monitoring Location				Point Type	Name of Receiving Water
CW05003196BV1001	SW001	E	68110.69	N	45852.81	Coastal	Berehaven
CW05003196BV1002	SW001	E	67933.48	N	44983.71	Coastal	Berehaven
CW05003196BV1009	SW001	E	67469.23	N	44820.26	Coastal	Berehaven

Parameter	Units	Monitoring Frequency	Analysis Method / Technique
As required by the Agency	As approved by the Agency	As required by the Agency	As required by the Agency

SCHEDULE C: SPECIFIED IMPROVEMENT PROGRAMME

C.1: Specified Improvement Programme

There is no specified improvement programme required in this licence.

C.2: Discharges to be Discontinued

C.2 Discharges to be Discontinued				
EDEN Code	Licence Code	Type	Action	Discontinuation Date
TPEFF0500D0297SW000	SW000	Primary Discharge Point	Discontinue	On grant of this licence
TPEFF0500D0297SW002	SW002	Storm Water Overflow	Convert to Storm Water Overflow	On grant of this licence
TPEFF0500D0297SW003	SW003	Storm Water Overflow	Convert to Storm Water Overflow	On grant of this licence
TPEFF0500D0297SW004	SW004	Storm Water Overflow	Convert to Storm Water Overflow	On grant of this licence
TPEFF0500D0297GW005	GW005	Secondary Discharge Point	Discontinue	On grant of this licence
TPEFF0500D0297GW006	GW006	Secondary Discharge Point	Discontinue	On grant of this licence

SCHEDULE D: ANNUAL ENVIRONMENTAL REPORT

D.1 Annual Environmental Report Content

Discharges from the agglomeration.

Summary report on monthly influent monitoring.

Data collection and reporting requirements under the Urban Waste Water Treatment Directive.

Complaints summary.

Pollutant Release and Transfer Register - report for previous year.

Pollutant Release and Transfer Register - proposal for current year.

Ambient monitoring summary.

Storm water overflow identification and inspection report.

Reported incidents summary.

Report on progress made and proposals being developed to meet the improvement programme requirements.

Development/Infrastructural works summary (completed in previous year or prepared for current year).

Statement of measures related to the prevention of environmental damage associated with discharges or overflows.

Any other items specified by the Agency.

Sealed by the seal of the Agency on this the day of 20XX

**PRESENT when the seal of the Agency
was affixed hereto:**

XXXXXX Director/Authorised Person