



**ATTACHMENT C.1:**  
**DISCHARGES AND MONITORING**



## Waste Water Discharge Authorisation

### Attachment C.1 – Discharges & Monitoring

**Applicant Name:\***

Irish Water

**Application I.D.:\***

D0136-01

## SECTION C: DISCHARGES & MONITORING

This part of the application form collects information on the existing and proposed waste water discharges from the waste water works serving the agglomeration including proposed emission levels and monitoring results.

### Section C.1 Discharges & Monitoring

**Table C.1(a)** - Primary waste water discharge *(complete the table for existing and proposed primary discharge where relevant)*

Existing Primary Waste Water Discharge <b>(as per D0136-01)</b>						
EDEN Code (where applicable)	Unique Point Code	Discharge Location	Monitoring Location	Receiving Water Name	WFD Code Receiving Water	Type of Receiving Water
TPEFF0500D0136SW001	SW001	150411E, 055785N	150440E, 055799N	River Bandon	Bandon_090, IE_SW_20B020800	River

Proposed Primary Waste Water Discharge <b>(note: only monitoring location to be changed)</b>						
EDEN Code (where applicable)	Unique Point Code	Discharge Location	Monitoring Location	Receiving Water Name	WFD Code Receiving Water	Type of Receiving Water
TPEFF0500D0136SW001	SW001	150411E, 055785N	150436E, 055774N	River Bandon	Bandon_090, IE_SW_20B020800	River

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Proposed Discharges Emission Levels and Monitoring							
Discharges					Monitoring		
Parameter	Units	Interim emission level (or Interim % Reduction)	Proposed emission level	Emission level commencement date	Monitoring Frequency	Sampling Method	Analysis method/Technique
pH	pH Units	-	6-9	-	Daily	Continuous	pH Meter and recorder
cBOD	mg/l	-	25	-	Monthly	Composite	Standard Method
COD	mg/l	-	125	-	Monthly	Composite	Standard Method
Suspended Solids	mg/l	-	35	-	Monthly	Composite	Standard Method
Ortho-Phosphate (as P)	mg/l	-	1.6	-	Monthly	Composite	Standard Method
Total Ammonia	mg/l	-	3	31/12/2015	Monthly	Composite	Standard Method
Total Phosphorus	mg/l	-	2	-	Monthly	Composite	Standard Method
Visual Inspection	Descriptive	-	-	-	Weekly	Grab	Standard Method
Flow	m <sup>3</sup> /24 hours	-	-	-	Continuous	Online	On-line flow meter with recorder

Secondary Waste Water Discharge

Is a Secondary discharge associated with the agglomeration?	No
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If yes, complete the following table for each secondary waste water discharge.

**Table C.1(b)** - Secondary waste water discharge

Secondary Waste Water Discharge							
EDEN Code (where applicable)	Unique point Code	Discharge Location	Monitoring Location	Receiving Water Name	WFD Code Receiving Water	Type of Receiving Water	Decommissioning date if applicable
Not applicable							

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Discharges Emission Levels and Monitoring							
Discharges					Monitoring		
Parameter	Units	Interim emission level (or Interim % Reduction)	Proposed emission level	Emission level commencement date	Monitoring Frequency	Sampling Method	Analysis method/Technique
Not applicable							

**Waste water discharges from Stormwater Overflows**

Are discharges from storm water overflows associated with the agglomeration?	Yes
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If yes, complete the following table for waste water discharges from storm water overflows.

**Table C.1(c) - Storm Water Overflows (additional rows may be added as required)**

Storm Water Overflow (SWO)							
EDEN Code (Where available)	Unique Code	Discharge Location (6E, 6N)	SWO Location (6E, 6N)	Name of Receiving Water	WFD Code Receiving Water	Compliant * (Y/N)	Decommissioning date (where applicable)
TPEFF3900D 0136SW002	SW002	150368E, 055690N	150396E, 055676N	Bandon_090	IE_SW_20B020800	Y	Not applicable
TPEFF3900D 0136SW004	SW004	149316E, 055104N	149312E, 055120N	Bandon_090	IE_SW_20B020800	Y	Not applicable
TPEFF3900D 0136SW008	SW008	149738E, 055164N	149673E, 054954N	Bandon_090	IE_SW_20B020800	Y	Not applicable
TPEFF3900D 0136SW012	SW012	149297E, 054974N	149293E, 054948N	Bandon_090	IE_SW_20B020800	N	By end of Q1 2023**
TPEFF3900D 0136SW014	SW014	148826E, 054484N	148846E, 054470N	Bandon_090	IE_SW_20B020800	Y	Not applicable
<b>TBC</b>	SW016	150070E, 055290N	150091E, 055234N	Bandon_090	IE_SW_20B020800	Y	Not applicable
<b>TBC</b>	SW017	145152E, 054669N	145063E, 054831N	Bandon_080	IE_SW_20B020780	Y	Not applicable
<b>TBC</b>	SW018	149039E, 054717N	149039E, 054717N	Bandon_090	IE_SW_20B020800	Y	Not applicable
<b>TBC</b>	SW020	148713E, 055617N	148713E, 055612N	Bandon_090	IE_SW_20B020800	Y	Not applicable

\* Meeting the criteria as set out in the DoEHLG ‘Procedures and Criteria in Relation to Storm Water Overflows’, 1995

\*\* To be decommissioned under the Bandon Watermain & Sewer Network Project by end of Q1 2023.

**Emergency Overflow Point(s)**

Are discharges from emergency overflows associated with the agglomeration?	Yes
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If yes, complete the following table for waste water discharges from an emergency overflow.

**Table C.1 (d)** - Emergency Overflow (additional rows may be added as required)

Refer to **Table C.1(c)** – SW002, SW004, SW016, SW017 & SW020 are Dual Function Overflows – acts as a SWO or EO depending on the circumstances.

Emergency Overflow Point					
Name of pumping station	Unique point code	Discharge Location (6E, 6N)	Emergency Overflow Location (6E, 6N)	Name of Receiving Water	WFD Code of Receiving Water
WwTP	SW002	150368E, 055690N	150396E, 055676N	Bandon_090	IE_SW_20B020800
Watergate Street Pumping Station	SW004	149316E, 055104N	149312E, 055120N	Bandon_090	IE_SW_20B020800
Glasslinn Road Pumping Station	SW016	150070E, 055290N	150091E, 055234N	Bandon_090	IE_SW_20B020800
Bandon Laragh Pumping Station	SW017	145152E, 054669N	145063E, 054831N	Bandon_080	IE_SW_20B020780
Castlewoods Pumping Station	SW019	147749E, 053889N	147728E, 053895N	Bandon_090	IE_SW_20B020800





Emergency Overflow Point					
Name of pumping station	Unique point code	Discharge Location (6E, 6N)	Emergency Overflow Location (6E, 6N)	Name of Receiving Water	WFD Code of Receiving Water
Kilbrogan Pumping Station	SW020	148713E, 055617N	148713E, 055612N	Bandon_090	IE_SW_20B020800

## Waste Water Treatment Plant Monitoring Data

In the case of an existing associated waste water treatment plant(s), provide a summary of the sampling data pertaining to the discharge based on the samples taken in the 12 months preceding the making of the application by completing the following table.

**Table C.1(e)** - Effluent monitoring results – **November 2021 – October 2022 & as per D0136-01 Monitoring Requirements<sup>1</sup>.**

Parameter:	pH pH units	cBOD mg/l	COD mg/l	SS mg/l	Total Nitrogen mg/l	Total Phosphorous mg/l	Ammonia mg/l	Ortho- Phosphate mg/l
Number of Samples:	12	12	12	12	12	12	12	12
Max result:	7.7	18	42.0	16	41.3	3.350	12.700	2.860
Min result:	6.1	1.1	14.8	1.8	6.5	0.480	0.043	0.390
Average result	7.2	3.53	23.6	4.5	14.3	1.777	1.538	1.618
Number of exceedances of ELV:	0	0	0	0	Not Applicable	Not Applicable	1	0
Overall compliance: (%)	100%	100%	100%	100%	Not Applicable	Not Applicable	92.3%	100%

<sup>1</sup> Where the concentration in the result is less than the limit of detection (LOD), a value of LOD/sqrt(2) was applied.