

WASTE WATER DISCHARGE LICENCE REVIEW APPLICATION FOR THE BANDON AGGLOMERATION

DECEMBER 2022



ATTACHMENTS

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Waste Water Discharge Authorisation

Application Form

EPA Ref. Nº: (Office use only)

Environmental Protection Agency

PO Box 3000, Johnstown Castle Estate, Co. Wexford Lo Call: 1890 335599 Telephone: 053-9160600 Fax: 053-9160699 Web: <u>www.epa.ie</u> Email: <u>info@epa.ie</u>



ABOUT THIS APPLICATION FORM

This Application Form is for the purpose of making an application for a Waste Water Discharge Authorisation under the European Union (Waste Water Discharge) Regulations 2007 to 2020, or for the review of an existing Waste Water Discharge authorisation. It should be completed in accordance with the Guidance Document which is available on <u>www.epa.ie</u>.

A valid application for a Waste Water Discharge Authorisation must contain the information prescribed in the European Union (Waste Water Discharge) Regulations 2007 to 2020. Regulations 16 and 24 set out the statutory information requirements for a Waste Water Discharge licence (WWDL) and a Certificate of Authorisation (CoA) application respectively.

Neither this Application Form nor the guidance document purport to be and should not be considered a legal interpretation of the provisions and requirements of the European Union (Waste Water Discharge) Regulations 2007 to 2020.

While every effort has been made to ensure the accuracy of the material contained in this Application Form, the EPA assumes no responsibility and gives no guarantees, undertakings or warranties 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 this Application Form and any clarifying explanation contained in the Guidance Note, then the requirements in this Application Form should take precedence. The requirements of the Regulations shall take precedence over any considerations mentioned in this Application Form, the guidance document or on the website.

Section A:	Non-Technical Summary
Section B:	General
Section C:	Discharges & Monitoring
Section D:	Impact Assessment
Section E:	Declaration

The Application Form comprises sections A-E as follows:



SECTION A: NON-TECHNICAL SUMMARY

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

A.1 Non-Technical Summary

This part of the Application Form collects a Non-Technical Summary which identifies all environmental impacts of significance associated with the discharge of waste water from the waste water works.

A1.1 Supporting documents

Complete the following table and submit the relevant supporting document as Attachment A1 in accordance with the guidance.

Table 1 - Non-Technical Summary Document Name

Document type	Document name
Non-technical summary	Attachment A.1.1: Non-Technical Summary Attachment A.1.2: Map 1 - Area of Interest



SECTION B: GENERAL

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

B.1 Application Details

This part of the form collects contact details, the type of application, and the location and size of the agglomeration.

B.1.1 Application Type

This part of the form collects details of the type of application being made.

Table 2 – Application Type		Tick as appropriate (√)
A	Application for the review of an existing authorisation	\checkmark
В	New application for a licence in respect of which the Agency has previously granted a certificate	
С	New application for a licence for discharges (>500 P.E)	
D	New application for a certificate for discharges (< 500 P.E.)	

If A or B are applicable, provide the following information:

Current EPA Authorisation Register Number(s)	D0136-01	

If A is applicable, provide the following information:

Grounds for review on which the application is being made:

Following an examination of the Bandon Waste Water Discharge Licence (WWDL) in June 2021, the EPA concluded that the WWDL does not satisfy the environmental requirements of the WWDA 2007 regulations, as amended. The reasoning for their conclusion and recommendation for a review of the current WWDL (D0136-01) was based on the following:

- 1. The licence was granted over 3 years ago.
- 2. Planning permission has been granted for proposed development works associated with the licence.
- 3. The agglomeration is included in Irish Water's investment plan.
- 4. There has been a material change, which could not reasonably have been foreseen when the licence was granted, in relation to the receiving waters, namely, the deterioration of the status of the Bandon river (Bandon_090) from '*Good*' to '*Moderate*'.

BOS

The p.e at the time of the determination of D0136-01 in 2015 was less than 10,000 p.e. This application relates to a p.e. of 14,456 *i.e.*, > 10,000 p.e. threshold band.

As part of this WWDL Review a more onerous Ortho-P ELV of 1.6mg/l is being proposed in order to meet the Good-status 95% ile Environmental Quality Standard (EQS) downstream of the primary discharge.

The inclusion of a Total Phosphorus (TP) ELV of 2mg/l is being proposed as part of this Review due to the Upper Bandon Estuary nutrient sensitive estuary (P limited) being located *ca*. 5km downstream of the primary discharge point, and the fact that the p.e. of the agglomeration will be greater than 10,000.

As part of this WWDL Review, the Bandon IDA Laragh Agglomeration (A0362-01) will be amalgamated into the current Bandon agglomeration, and CoA A0362-01 will be surrendered.

This Review also relates to inclusion of 5 no. overflows (*i.e.*, SW016, SW017, SW018, SW019 and SW020) into the licence, and the removal of 10 no. overflows from the agglomeration (*i.e.*, SW003, SW005-SW007, SW009-SW013 and SW015).

If C or D are applicable, provide the following information:

	The Bandon WwTP Upgrade and Glasslinn Road Pumping Station Upgrade (<i>i.e.</i> , Bandon Sewerage Scheme) was completed in Q2 2021.
Date on which the waste water works became / becomes operational:	The Bandon IDA Laragh Pumping Station and rising main to Bandon was completed in Q3, 2018.
	The Bandon Watermain & Sewer Network Project is due to be completed by the end of Q1 2023.

In the case of an application for a licence (review), confirm the agglomeration population equivalent (p.e.):

Table 3 - Agglomeration p.e. thresholds

Discharges from agglomerations with a p.e. of	Tick as appropriate (✓)
more than 10,000	\checkmark
2,001 to 10,000	
1,001 to 2,000	
500 to 1,000	

B.1.2 Applicant's Details

Provide the following information: **Table 4** - Name and Address of Applicant

Name*:	Irish Water
Address:	Colvill House 24-26 Talbot Street Dublin 1
CRO Number:	530363
Tel:	+353 1 8925000
e-mail:	WasteWaterLicensingSouthern@water.ie

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

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

Table 5 – Name and Address for Correspondence

Name*:	Environmental Licensing Specialist
Address:	Colvill House 24-26 Talbot Street Dublin 1
Tel:	01 8925000
e-mail:	WasteWaterLicensingSouthern@water.ie

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

B.2. Agglomeration Details

This part of the form collects details of the agglomeration, the waste water works and any associated waste water treatment plant, capacity details and waste water inputs.

B.2.1 Agglomeration name and Geographical Location

Name of Agglomeration:	Bandon
Name of townland or townlands of the agglomeration served by a waste water works to which the application relates:	Shinagh, Coolfadda, Gully, Kilbrogan Cloghmacsimon, Curryclogh Clogheenavodig, Kilbeg North, Killountain, Clancool Beg, Clancool More, Ballylangley, Laragh, Roundhill, Castlebernard, Knockbrogan, Kilbeg South, Moanarone, Knockanreagh, Clashafree and Knocknagarrane
Included on EPA Waste Water Priority List?	No
Included on European Commission infringement list?	No

B.2.2 Waste water works and associated Waste Water Treatment Plant(s)

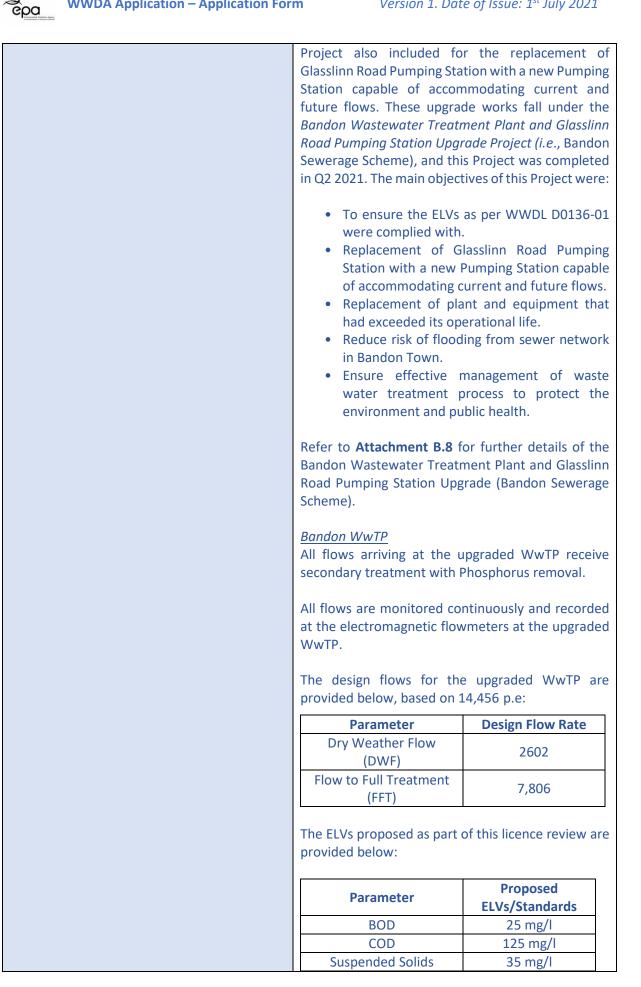
Description of the existing waste water works:Bandon Town is located in County Cork. The town straddles the River Bandon. The Bandon agglomeration covers 21 no. townlands, namely Shinagh, Coolfadda, Gully, Kilbrogan , Cloghmacsimon, Curryclogh, Clogheenavodig, Kilbeg North, Killountain, Clancool Beg, Clancool More, Ballylangley, Laragh, Roundhill, Castlebernard, Knockbrogan, Kilbeg South, Moanarone, Knockanreagh, Clashafree and Knocknagarrane.Bandon agglomeration (D0136-01) is served by a sewerage system that comprises gravity sewers, Pumping Stations, rising mains, and a Waste Water Treatment Plant (WwTP).The Bandon WwTP, which located to the east of the town on the banks of the River Bandon at NGR 150425E, 055700N, was constructed in the early 1960s and was significantly upgraded and extended
in 1993. More recently, further upgrade works were completed in Q2 2021.

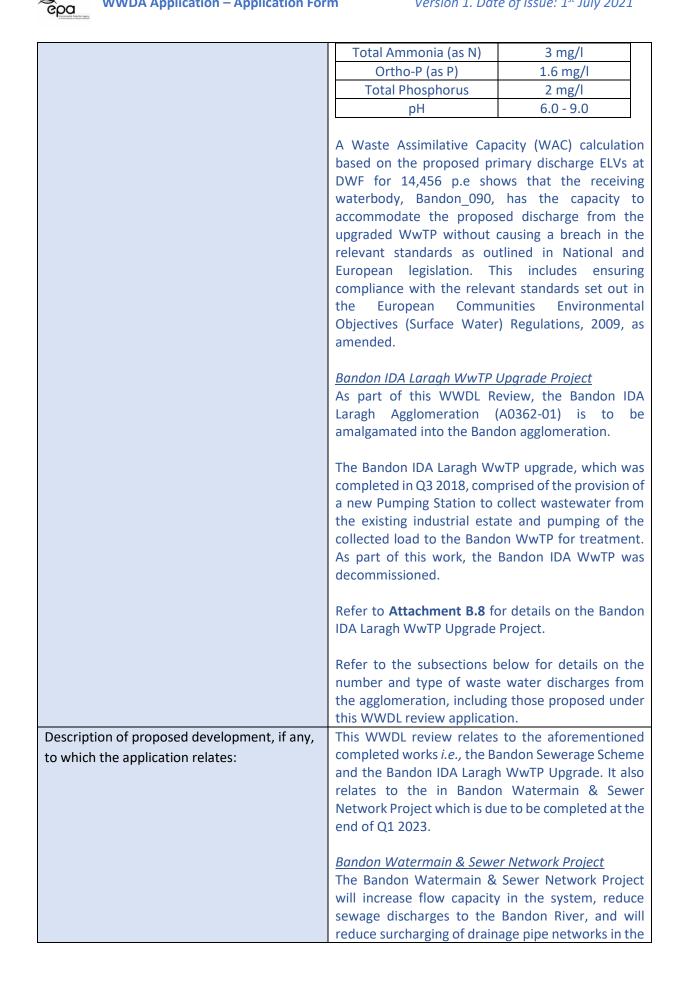
Table 7 - Waste Water Works



The upgraded Bandon WwTP has a design capacity of 14,456 p.e and therefore has adequate capacity to treat the current load of 9,744 p.e (AER, 2021). The civil and structural upgrade works completed in 2021 allows for the upgrade of the capacity of the plant to the 30-year design horizon of 18,111 p.e.
The effluent from the agglomeration arises mainly from domestic sources. There are 8 no. licensed Trade Effluent activities discharging to the agglomeration sewers under Section 16 of the Local Government (Water Pollution) Acts 1977 and 1990.
There are no IED/IPC or waste licensed activities in the vicinity with discharges to the agglomeration.
Treated effluent from the WwTP discharges to the River Bandon at NGR 150411E, 055785N which is part of the Bandon Ilen catchment area (HA 20).
A number of projects have been undertaken over recent years, or are currently being undertaken, in the Bandon agglomeration, including:
 Bandon Wastewater Treatment Plant and Glasslinn Road Pumping Station Upgrade (Bandon Sewerage Scheme). These works were completed in Q2 2021. Bandon IDA Laragh WwTP Upgrade - This Upgrade Project was completed in Q3 2018. As part of this WWDL Review, the Bandon IDA Laragh Agglomeration (A0362-01) is to be amalgamated into the Bandon agglomeration. Bandon Watermain & Sewer Network Project which includes for the removal of 10 no. Storm Water Overflows (SWOs). This Project is underway and is due to be completed by the end of Q1 2023.
Bandon Wastewater Treatment Plant and Glasslinn Road Pumping Station Upgrade (Bandon Sewerage Scheme) Upgrade works at Bandon WwTP were required to improve the treatment processes at the WwTP, thereby resulting in an improved effluent discharge quality. The upgraded plant was designed to meet the Emission Limit Values (ELVs) stipulated in the existing WWDL (D0136-01). The works included the replacement of existing plant and equipment that had exceeded their normal operational life. This







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	town. Works relating to this project are due to be
	completed by the end of Q1 2023.
	The Project consists of the following:
	 The removal of 10 no. SWOs in Bandon Town and its environs. New sections of combined sewer. New sections of storm drains. New sections of water mains. Replacement of defective water mains. Associated ancillary works.
	Refer to Attachment B.8 for details of the Bandon Watermain & Sewer Network Project.
	Refer also to the subsections below for details on the operational discharges from the Bandon agglomeration, including those proposed under this WWDL review application.
Number and type of waste water discharges	Discharge Scenario as per D0136-01
from the waste water works including	Drimary Discharge (SM/001)
proposed waste water discharges:	<u>Primary Discharge (SW001):</u> Treated effluent from the WwTP discharges to the River Bandon at NGR 150411E, 055785N via 3 no. diffusers.
	<u>Secondary Discharges</u> : There are no secondary discharge points associated with the waste water works.
	<u>Overflows:</u> There are currently 14 no. overflows within the agglomeration. 2 no. of these act as Dual Function Overflows (SW002 - WwTP and SW004 – Watergate Street Pumping Station) <i>i.e.,</i> overflows which can act as a SWO or as an Emergency Overflow (EO) depending on the event.
	Of the 14 no. SWOs, 9 no. do not meet the definition of 'Storm Water Overflow' as per Regulation 3 of the Waste Water Discharge (Authorisation) Regulations, 2007, as amended and the criteria as set out in the DoEHLG 'Procedures and Criteria in Relation to Storm Water Overflows', 1995 (SW003, SW006- SW007, SW009-SW013 and SW015). 4 no. SWOs (SW002, SW004, SW008 and SW014) meet the DoEHLG criteria and 1 no. SWO (SW005) has not been assessed against the DoEHLG criteria. 9 no. overflows have already been decommissioned under the Bandon Watermain & Sewer Network



Overflow	Asset	Туре	Coords
			per
			D0136-0
SW002	WwTP	SWO/EO	150368E
			0556901
SW003*	Glasslinn	SWO	1500778
	Road PS		055316
SW004	Watergate	SWO/EO	149316
	Street PS		0551041
SW005*	Network	SWO	1492658
			055150
SW006*	Network	SWO	1495528
			0551721
SW007*	Network	SWO	149096
			0550451
SW008	Network	SWO	149738
			0551641
SW009*	Network	SWO	149281
			0550401
SW010*	Network	SWO	149250
			0550691
SW011*	Network	SWO	1499291
			0552541
SW012**	Network	SWO	149297
			0549741
SW013*	Network	SWO	149116
			0548301
SW014	Network	SWO	148826
			0544841
SW015*	Network	SWO	1485628
011010			

* Decommissioned

** To be decommissioned by end of Q1 2023

Discharges as per Subject Matter of Licence Review

054290N

Primary Discharge (SW001):

The primary discharge from the WwTP remains at the existing primary discharge location at NGR 150411E, 055785N.

Secondary Discharges:

There are no secondary discharge points associated with the waste water works.

Proposed Overflows:

Tabled below are the overflows associated with this licence review.

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Overflow	Asset	Туре	Discharge
			Coords
SW002	WwTP	SWO/EO	150368E,
			055690N
SW004	Watergate	SWO/EO	149316E,
	Street PS		055104N
SW008	Network	SWO	149738E,
			055164N
SW014	Network	SWO	148826E,
			054484N
SW016	Glasslinn	SWO/EO	150070E,
	Road PS		055290N
SW017	Laragh PS	SWO/EO	145152E,
			054669N
SW018	Network	SWO	149039E,
			054717N
SW019	Castlewoods	EO	147749E,
	PS		053889N
SW020	Kilbrogan PS	SWO/EO	148713E,
			055617N

2 no. of the existing Dual Function Overflows will be retained as part of the upgrade works (SW002 at the WwTP and SW004 at the Watergate Street Pumping Station).

2 no. existing SWOs (SW008 and SW014) will be retained as part of the network upgrade.

There are 3 no. new Dual Function Overflows (SW016, SW017 and SW020) to be added to the licence from the Glasslinn Road Pumping Station, Laragh Pumping Station, and Kilbrogan Pumping Station.

There will be 1 no. new EO from Castlewoods Pumping Station (SW019).

There will be 1 no. new network SWO (SW018).

All Storm Water Overflows have been designed to meet the definition of 'Storm Water Overflow' as per Regulation 3 of the Waste Water Discharge (Authorisation) Regulations, 2007, as amended and the criteria as set out in the DoEHLG 'Procedures and Criteria in Relation to Storm Water Overflows', 1995.

The Dual Function Overflows at the WwTP and 4 no. at Pumping Stations (*i.e.*, Watergate Street Pumping Station, Glasslinn Road Pumping Station, Laragh



	Pumping Station and Kilbrogan Pumping Station) have been designed primarily as a SWO, as per Irish Water's Standard IW-TEC-800-03 and the 1995 DoEHLG criteria, but will function as an EO should a catastrophic and highly unlikely event occur where there is a double failure mode at the WwTP or Pumping Stations <i>e.g.,</i> duty and stand-by pump fails and/or power outage and back-up generator fails or other double failure scenarios. All overflows when activated discharge to the River Bandon (Bandon_090), apart from SW017, which discharges to the Bandon_080.
Is the network assessment complete?	Yes
If the answer above is no, in what year is the assessment expected to be complete?	Not applicable

Table 8 - Waste water treatment plant associated with the waste water works

Site contact Name*:	Regional Wastewater Compliance Specialist – Southern Region
	Bandon WwTP,
Address of waste	Main Cork Road
water treatment plant	Ballylangley
(including Eircode):	Bandon
	Co. Cork
Telephone Number:	01 8925000
e-mail:	WasteWaterComplianceSouthern@water.ie
Grid ref (6E, 6N)	150425E, 055700N
Description of the treatment process	Secondary with P removal
Primary discharge point reference ID:	SW001

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

B.2.3 Supporting documents

Complete the following table and submit the relevant supporting documents in accordance with the Guidance Document:

Table 9 -	Supporting	Document	Names
Tuble 5	Supporting	Document	i turre 5

Document type	Document name
B.2 .1 Agglomeration map	Attachment B.2.1: Map 2 – Agglomeration Plan
B.2-2 Site map including discharge and monitoring points.	Attachment B.2.2: Map 3 – WwTP Site Location Plan & Layout Attachment B.2.2: Map 4 – Location of Primary Discharge Point & Sampling Point Attachment B.2.2: Map 5 – Location of Overflows Attachment B.2.2: Map 6 – Location of Ambient Monitoring Points
B.2.3 Waste water process flow	Attachment B.2.3: Waste Water Process Flow Diagram

B.2.4 Capacity of the waste water works

Table 10 - Capacity of the Waste water Works

Table 10 - Capacity of the Waste water works	
Population Equivalent of the agglomeration to which the application relates:	14,456 p.e (Design)
Maximum average weekly population equivalent of the agglomeration:	9,744 p.e (Source: 2021 AER)
Existing Organic Capacity of the waste water treatment plant - As Constructed or nominal design (p.e.)	14,456 p.e (Current WwTP Design — 10-year Design Horizon)
Proposed Organic Capacity of the waste water treatment plant - As per planning permission or design (p.e.)	14,456 p.e (WwTP Design – 10-year design)
Current Collected Load (p.e.):	9,744 p.e (Source: 2021 AER)
Remaining Organic Capacity (p.e.):	4,712 p.e.
Is the plant overloaded – organic loading?	No
Current Peak Hydraulic Capacity of the waste water works–As Constructed or nominal design (m ³ /day):	5,262 m³/day (3 x DWF) (based on 2021 PE) 7,806m³/day (Design - 3 x DWF)

Proposed Peak Hydraulic Capacity of the waste	
water works-As per planning permission or	7,806m ³ /day (Design - 3 x DWF)
nominal design (m³/day):	
	Design: 2,602m ³ /day (based Design p.e. x 0.180
Current and proposed dry weather flow (DWF) to	m³/p.e/d)
the treatment plant (m ³ /day):	Current: 1,754m ³ /day (based on 9,744 p.e x
	0.180 m ³ /p.e/d)
Current average hydraulic loading to the	3,613 m ³ /day (Source: AER 2021)
treatment plant (m ³ /day):	
Remaining Hydraulic Capacity (m ³ /day):	4,193 m³/day
Is the plant hydraulically overloaded?	Νο

B.2.5 Waste Water Inputs

ble 11 - Waste Water Inputs to Waste Water Works
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Inputs	P.E.	% of total PE
Domestic waste water load	14,356 p.e	99%
Industrial waste water load	100 p.eª	1%
Leachate	0	0%
Waste water to be conveyed and discharged only (i.e.by pass the WWTP)	0	0%
Total	14,456 p.e ^b	100%

^a Source: The licenced industrial load to Bandon WwTP - Section 16 licenced discharges. ^b Design of WwTP

Where industrial waste water is relevant to this application, provide the following information:

Table 12 - Industrial waste water pre-treatment

А	Is the requirement for pre-treatment (Article 9 of the	
	urban waste water treatment regulations 2001 as	Not applicable
	amended) met?	

If 'No' was answered to A, provide details of the measures to be taken to comply: Not applicable

B.3 Planning documentation

B.3.1 Planning information

This part of the application form collects planning information relating to development or proposed development relevant to which the application relates.

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	Planning Authority name:	Cork County Council / An Bord Pleanála
A	Is planning permission required for development or proposed development to which the application relates?	Yes (for Bandon Sewerage Scheme and also the Bandon IDA Laragh WwTP Upgrade Project).
В	If 'Yes', has planning permission been granted?	Yes – planning permission was granted for the Bandon Sewerage Scheme on the 29 th August 2017 by Cork County Council subject to 11 no. conditions. Planning permission was granted for the Bandon IDA Laragh WwTP Upgrade Project on the 20 th January 2017 by Cork County Council subject to 6 no. conditions. This planning decision was subsequently appealed to An Bord Pleanála. A final grant of planning of planning was obtained from An Bord Pleanála (Ref: PL 04.247978) on the 15 th June 2017 subject to 6 no. conditions.
C	If planning permission is not required at A above, is the proposed development, if any, to which the application relates exempted development?	Planning permission was not required the Bandon Watermain & Sewer Network as it was classed as an exempt development.

If '*Yes*' was answered to A and B, above, the following 'Planning Granted' table should be completed. **Table 14 -** Planning granted

Planning File Reference Number:	174106
Planning Appeal Reference Number (if relevant):	Not applicable
Planning Authority Name / An Bord Pleanála:	Cork County Council
Date of Planning Decision (Final Grant):	29 th August 2017
Brief description:	The upgrade of the Cork County Council Waste Water Treatment Plant (access <i>via</i> the Main Cork Road) and Pumping Station (access <i>via</i> Mill Road). The proposed development includes the upgrade and construction of a new control building & welfare facilities, standby diesel generator units, 2 no. ESB substations, storm



	and foul pumping station, storm screen chambers and stormwater holding tank, the demolition of the existing Pumping Station and sludge dewatering building (total plan area > 100m ²) and the installation of new inlet screening and grit removal units, new odour control units and an additional Picket Fence Thickener. The development also includes the replacement of the existing sludge dewatering building, new chemical storage tank, storm separation chamber, as well as all ancillary works including pipework, minor upgrades, drainage, landscaping and all associated site development and site excavation works above & below ground.	
EIAR required with Planning Application?	No	
Confirm that the supporting documentation is provided:	 Yes – Refer to: Attachment B.3.1: Bandon Sewage Scheme - Cork County Council Planning Approval, August 2017 Attachment B.3.2: Bandon Sewage Scheme - Cork County Council Planner's Report, July 2017 	

Planning File Reference Number:	165851	
Planning Appeal Reference Number (if relevant):	PL 04.247978	
Planning Authority Name / An Bord Pleanála:	Cork County Council / An Bord Pleanála	
Date of Planning Decision (Final Grant):	15 th June 2017	
Brief description:	Upgrading the existing wastewater infrastructure to provide a Pumping Station with septicity dosing kiosk within the boundaries of the existing treatment plant. Treatment will no longer occur on site. Existing redundant treatment equipment will be decommissioned and left in suitable and safe condition.	
EIAR required with Planning Application?	No	
Confirm that the supporting documentation is provided:	 Yes – Refer to: Attachment B.3.3: Bandon IDA Laragh WwTP Upgrade Works - Planning Approval, June 2017 Attachment B.3.4: Bandon IDA Laragh WwTP Upgrade Works - Inspector's Report, May 2017 	

If 'Yes' was answered to A and 'No' was answered to B, above, the following Planning under Consideration table should be completed.

ble 15 - Planning under Consideration

Planning File Reference Number:	Not applicable
Planning Appeal Reference Number (if relevant):	
Planning Authority Name / An Bord Pleanála:	
Date of application:	
Brief description:	
EIAR required with Planning Application?	
Confirm that the supporting documentation is provided:	

If 'No' was answered to A and 'Yes' was answered to C, the following Exempted Development table should be completed.

Table 16 - Exempted Development

Reason for exemption:	The Bandon Watermain & Sewer Network works was classed as	
	exempted development under Class 58 of Schedule 2 of the Planning	
	and Development Regulations, as amended.	

B.3.2 Supporting documents

The document names for all supporting documentation should be provided in the following table.

	Document type	Document name
Planning granted	 planners letter confirming EIA is not required (if relevant) 	Not applicable
	 a copy of relevant grant of planning permission AND planners report 	 Attachment B.3.1: Bandon Sewage Scheme - Cork County Council Planning Approval, August 2017 Attachment B.3.2: Bandon Sewage Scheme - Cork County Council Planner's Report, July 2017

Table 17 - Supporting Documents



		 Attachment B.3.3: Bandon IDA Laragh WwTP Upgrade Works - Planning Approval, June 2017 Attachment B.3.4: Bandon IDA Laragh WwTP Upgrade Works - Inspector's Report, May 2017 	
Planning under consideration	 confirmation from a planning authority or An Bord Pleanála (as applicable) that an application for permission comprising or for the purposes of the waste water discharge to which the application relates, is currently under consideration by the planning authority concerned or An Bord Pleanála 	Not applicable	
	 Planners letter confirming EIA not required (if relevant) 	Not applicable	
Exempted development	 Planners letter confirming development is exempted or reference to the specific legislation for exemption 	Refer to Table 16 above for exemption details.	

B.4 Notices and Advertisements

This part of the form collects evidence of stakeholder engagement prior to making this application. The location of the site notice should be provided in the following table.

Table 18 - Site notice location

Grid co-ordinates (6E, 6N)		
Entrance to Bandon WwTP	150439E	055663N
along N71:		

B.4.1 Supporting documents

The document names for all supporting documentation should be provided in the following table:

Document type	Document name
Newspaper notice:	Attachment B.4.1: Newspaper Notice
Site notice:	Attachment B.4.2: Site Notice

Table 19 - Names of Supporting Document(s) on Notices and Advertisements



Map of site notice location:	Attachment B.4.3: Map 7 – Site Notice Location
Water Services Authority notice:	Not applicable as Irish Water are the Water Services Authority
EIA Portal Confirmation notice:	Attachment B.4.4: EIA Portal Confirmation Notice

B.5 Preliminary examination/EIA Screening/EIAR

This part of the application form collects information in relation to EIA and the development /proposed development comprising or for the purposes of the waste water discharge.

Table 20 - EIA related information.

A	Having regard to B.3, is this application accompanied by an EIAR?	Yes, the Bandon WwTP has a capacity of greater than 10,000 p.e. as defined in Article 2, point (6), of the Urban Waste Water Treatment Directive (<i>i.e.</i> , Bandon 14,456 p.e). Therefore, a mandatory EIA, and the preparation of an EIAR is required to inform the
		WWDA process. See Attachment B.5 – Environmental Impact Assessment Report, December 2022.
В	Is the application in respect of the waste water discharge from a waste water treatment plant with a capacity of greater than 10,000 population equivalents as defined in Article 2, point (6), of the Urban Water Water Treatment Directive	Yes
С	Are there other competent authorities conducting EIA for the development or proposed development to which this application relates?	No
D	If ' <i>Yes</i> ' to C, provide the name of the competent authority and consent reference	Not applicable

If the answer to either A or B is 'Yes', the EIAR must accompany the application.

B.5.1 Supporting documents

The names assigned to the documents should be provided in the following table:

Document type	Document name	
EIAR	Attachment B.5: Environmental Impact Assessment Report, December 2022	
Preliminary examination / EIA screening report	Not applicable	

B.6. Compliance with EU Directives & National Regulations

This part of the application form collects details on compliance with relevant EU Directives and national Regulations.

B.6.1 Supporting document

The EPA template provided should be completed. The name assigned to the document should be provided in the following table:

Document type	Document name
Compliance with EU Directives & National Regulations	Attachment B.6: Compliance with EU Directives & National Regulations

B.7 Foreshore Act Licences.

This part of the application form collects information relating to Foreshore Act Licences where relevant.

Is Foreshore Act Licence required for development or	Neteralizable
proposed development the subject of this application?	Not applicable

If yes, and the Foreshore Act Licence is relevant to this application, provide the following information:

	Foreshore Act Licence Competent Authority name:	Not applicable
A	Has a Foreshore Act Licence being granted?	
В	If no to A, is a Foreshore Act Licence application under consideration by the relevant competent authority?	

Table 23 - Foreshore Act Licence



С	Was EIA carried out or will be carried out by the	
	Foreshore Act Licence competent authority?	
D	If 'Yes' to C, confirm that the same EIAR was submitted	
	to Foreshore competent authority as accompanied	
	this WWDA application:	
Е	If <i>'Yes'</i> to A, provide:	
	- Licence Reference Number; and	
	- date of grant of consent:	
G	If 'Yes' to B, provide application reference number	

B.7.1 Supporting documents

The name(s) assigned to all supporting documentation should be provided in the following table:

Table B22 - Supporting documents

	Document type	Document name
If <i>'Yes'</i> to A	Foreshore Act Licence:	Not applicable
If <i>'Yes'</i> to C	Foreshore Act Licence report:	Not applicable

B.8 Programme of Improvements

For licence review applications, provide information on current licence requirements with respect to specified improvement works (B.8.1) and Condition 5 improvement programme (B.8.2).

For all applications, provide information on planned improvements (B.8.3). Supporting information can be uploaded / attached to this part of the application form.

B.8.1 Specified Improvement Programme

In the case of a licence review are there specified improvement	
works in Schedule A and C of current licence?	Yes

If 'Yes', the following table should be completed for each specified improvement works.

|--|

Specified Improvement Programmes: (under Schedule A and C of WWDL)	SIP01: Provide nutrient removal to meet ELVs specified in Schedule A. SIP02: Upgrade the WWTP to comply with ELVs specified in Schedule A.
Date for completion of Improvement Programme in the licence:	SIP01 – SIP02: 31 st December 2015
Has the date for completion expired? (Enter N, N/A or Y)	Y
Status of works: e.g. (i) Not Started; (ii) At planning stage; (iii) Work ongoing on-site; (iv) Commissioning phase; (v) Completed; (vi) Delayed	SIP01: Completed SIP02: Completed
Irish Water's expected timeframe for completing the work	Not applicable – works completed
Comments: Refer to Attachment B.8: Improvement Programme.	

B.8.2 Condition 5 Improvement programme

Provide details of the Condition 5 improvement programme by completing the following table:

Improvement identifier:	Not applicable
Improvement description:	
Improvement source: (e.g. WWTP assessment, Sewer assessments, Secondary discharges assessment SWO assessment, Drinking Water Abstraction Risk Assessment, Shellfish Impact Risk Assessment, Pearl Mussel Impact Assessment, Improved Operational Control, Incident Reduction, Elimination/Reduction of Priority Substances, Process Optimisation)	
Status of works:	
Expected Completion date:	
Comments:	

B.8.3 Planned programme of improvements

Provide information on planned programme of improvements by completing the following table:

Waste water discharge reference code:	D0136-SIP:01 & D0136-SIP:02
Type: (primary discharge / secondary discharge/ storm water overflow)	Primary Discharge & Network
Improvement works description:	 Upgrade works at Bandon WwTP were required to improve the treatment processes at the WwTP, thereby resulting in an improved effluent discharge quality. The upgraded plant was designed to meet the Emission Limit Values (ELVs) stipulated in the existing WWDL (D0136-01). The works included the replacement of existing plant and equipment that had exceeded their normal operational life. This Project also included for the replacement of Glasslinn Road Pumping Station with a new Pumping Station capable of accommodating current and future flows. These upgrade works fall under the Bandon Wastewater Treatment Plant and Glasslinn Road Pumping Station Upgrade Project (<i>i.e.</i>, Bandon Sewerage Scheme), and this Project was completed in Q2 2021. The main objectives of this Project were: To ensure the ELVs as per WWDL D0136-01 were complied with. Replacement of Glasslinn Road Pumping Station capable of accommodating current and future flows. Replacement of plant and equipment that had exceeded its operational life. Replacement of plant and equipment that had exceeded its operational life. Reduce risk of flooding from sewer network in Bandon Town. Ensure effective management of waste
	water treatment process to protect the environment and public health.
Expected completion date:	Completed in Q2 2021
Planning status: (grant of permission / exempted development)	Planning permission was granted for the Bandon Sewerage Scheme on the 29 th August 2017 by Cork County Council subject to 11 no. conditions.



Prioritised for funding:	Yes
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Waste water discharge reference code:	Not applicable
Type: (primary discharge / secondary discharge/ storm water overflow)	Network Works
Improvement works description:	The Bandon IDA Laragh WwTP upgrade comprised of the provision of a new Pumping Station to collect wastewater from the existing industrial estate and pumping of the collected load to the Bandon WwTP for treatment. As part of this work, the Bandon IDA WwTP was decommissioned.
Expected completion date:	Completed in Q3 2018
Planning status: (grant of permission / exempted development)	Planning permission was granted for the Bandon IDA Laragh WwTP Upgrade Project on the 20 th January 2017 by Cork County Council subject to 6 no. conditions. This planning decision was subsequently appealed to An Bord Pleanála. A final grant of planning of planning was obtained from An Bord Pleanála (Ref: PL 04.247978) on the 15 th June 2017 subject to 6 no. conditions.
Prioritised for funding:	Yes

Waste water discharge reference code:	Not applicable
Туре:	
(primary discharge / secondary discharge/ storm	Network Works including SWOs
water overflow)	



Improvement works description:	 The Bandon Watermain & Sewer Network Project will increase flow capacity in the system, reduce sewage discharges to the Bandon River and will reduce surcharging of drainage pipe networks in the town. Works relating to this project are due to be completed by the end of Q1 2023. The existing Bandon agglomeration contains 14 SWOs on the sewer network which frequently discharge untreated wastewater to the River Bandon in the absence of any stormwater storage. The removal of storm water overflows in the existing network and installation of new combined sewers as part of the Bandon Watermain and Sewer Network Project will result in an increased flow to the Glasslinn Road Pumping Station during flood conditions. The project consists of the following: The removal of 10 no. storm water overflows in Bandon Town and its environs. New sections of storm drains. New sections of water mains. Replacement of defective water mains. Associated ancillary works.
Expected completion date:	End of Q1 2023
Planning status: (grant of permission / exempted development)	Exempted development
Prioritised for funding:	Yes

B.8.4 Supporting documents

Attachment B8 should be submitted in accordance with the Guidance Document as supporting information and the name assigned to it provided in the following table:

 Table 26 - Supporting documents

Document type	Document name
Improvement programme	Attachment B.8: Improvement Programme

B.9 Fees

State the appropriate fee as per Columns 2 or 3 of the Third Schedule of the European Union (Waste Water Discharge) Regulations 2007 to 2020.

Table 27 - Fee

Class of Waste Water	Fee accompanying application / review	
Discharges from agglomerations(tick [*] one aswith a population equivalent of:appropriate)		application (in €)
- more than 10,000	\checkmark	
- 2,001 to 10,000		
- 1,001 to 2,000		€22,500
- 500 to 1,000		
- less than 500		

SECTION C: DISCHARGES & MONITORING

C.1. Discharges & Monitoring

The Discharges & Monitoring template should be downloaded from the EPA website (<u>www.epa.ie</u>), completed and submitted in accordance with the Guidance Document.

C.1.1 Supporting document

Attachment C.1 should be submitted in accordance with the Guidance Document as supporting information and the name assigned to it provided in the following table:

 Table 28 - Discharges & Monitoring

Document type	Document name	
Discharges & Monitoring	Attachment C.1: Discharges and Monitoring	

C.2. Measures to Prevent Unintended Discharges

Existing and proposed measures should be identified in the table below. Additional measures may be added to this table as required.

Measures to prevent unintended discharges	Existing (Y/N)	Proposed (Y/N)	Applicability	Surveillance measure
Accident prevention procedure:	Y	Not applicable	WwTP and network PSs	Auto switch-over of pumps. Permanent generator at WwTP. Permanent generator at new Glasslinn Road PS. Connection for generator available at Castlewoods and Kilbrogan PSs.
Emergency Response Plan and Procedures:	Y	Not applicable	WwTP	Alarms for WwTP fed to SCADA with alarms sent to operators. SCADA connected to IW Central SCADA System.

			Network PSs	High level/pump failure/power outage alarms at network PSs with alerts sent to operator.
	Waste w	vater treatmo	ent plant	
Measures to prevent unintended discharges	Existing (Y/N)	Proposed (Y/N)	Applicability	Surveillance measure
Alarms / telemetry on waste water treatment plant:	Y	Not applicable	WwTP	Alarms for WwTP fed to SCADA with alarms sent to operators.
Standby pumps at waste water treatment plant:	Y	Not applicable	WwTP	WwTP fed by Glasslinn Road PS – standby pumps provided at PS. All process pumps are duty/standby.
Standby equipment or provisions in the event of interruption of the power supply such as a portable generator or equipment with automatic switchover:	Y	Not applicable	WwTP	Permanent generator at WwTP. All critical equipment has standby units (blowers / pumps).
Storage capacity at intake to the waste water treatment plant (SWO tank):	Y	Not applicable	WwTP	New reinforced concrete storm tank providing 900m ³ storage.
Groundwater monitoring:	N	N	Not Applicable	Not Applicable
		Network		
Measures to prevent unintended discharges	Existing (Y/N)	Proposed (Y/N)	Applicability	Surveillance measure
Alarms / telemetry on pumping stations:	Y	Not applicable	All 5 no. PSs	High level/pump failure/power outage alerts with notification sent to operator.
Alarms / telemetry on emergency overflows:	Y	Not applicable	All 5 no. PSs	High level/pump failure/power outage alerts with notification sent to operator.
Standby pumps at pumping stations:	Y	Not applicable	All 5 no. PSs	Auto change-over of pumps.
Standby equipment or provisions in the event of interruption of the power supply:	Y	Not applicable	Glasslinn Road PS	Provision of permanent generator.

			Kilbrogan PS / Castlewoods PS	Connection for generator available.
			Glasslinn Road PS	Storm PS wet well capacity is 250m ³ which provides >2 hours DWF backup storage.
Storage capacity at pump stations:	Y	Not applicable	Laragh PS	The storage capacity of the on-site tank is 80m ³ . This provides a minimum of 24 hours future dry weather flow storage and up to 84 hours existing average flow storage.
Monitoring telemetry on SWOs:	N	N	Not applicable	Not applicable
Additional measures:	Y	Not	Glasslinn Road PS Watergate Street PS	Daily inspection visit by caretaker. Overflows are monitored by flowmeter.
		applicable	Laragh PS Castlewoods PS Kilbrogan PS	Inspection visit by caretaker 2-3 times per week.

C.2.1 Supporting documents

Attachment C2 should be submitted (in accordance with the Guidance Document) as supporting information and the name assigned to it provided in the following table:

 Table 30 - Supporting documents

Document type	Document name
Measures to prevent unintended discharges	Attachment C.2: Measures to Prevent Unintended Discharges

SECTION D: IMPACT ASSESSMENT

D.1. Receiving Waters

Complete the tables, below, as appropriate, for primary discharge, secondary discharge and storm water overflow(s) (SWO).

Table 31 - Receiving waters of Primary Discharge

Type (river, lake, groundwater, coastal, transitional):	River
Name and WFD reference:	Bandon_090 (IE_SW_20B020800)
WFD Risk:	At Risk
WFD Status & year:	Good (2016-2021) (Note: Previously Moderate status (2013-2018))
WFD Objective & timeframe for achievement:	Maintain Good Status (2027)
Is the agglomeration identified as a significant pressure?	Yes, due to current overflows. However, it is noted in the 3 rd Cycle Draft Bandon Ilen Catchment Report (HA 20), that this agglomeration is scheduled to be upgraded on Irish Water's Capital Investment Programme.
Has the discharges contributed to a deterioration in the quality of the water body?	The WwTP discharge is compliant with the ELV's set in the wastewater discharge licence and does not have an observable negative impact on the water quality downstream (Source: AER, 2021). However as noted above, SWOs are identified as a significant pressure on the receiving waterbody. The removal of 10 no. overflows and the improvements to the network will significantly reduce the number of intermittent discharges entering the river, as well as improving the quality of discharges, addressing this localised pressure on the River Bandon.
Protected areas in the vicinity of the discharges:	The Upper Bandon Estuary nutrient sensitive estuary (P limited) is located <i>ca.</i> 5km downstream of the primary discharge point. Based on the distance of this estuary waterbody downstream of the agglomeration, along with the fact that the p.e. of the agglomeration is greater than 10,000, a TP ELV of 2mg/l is proposed. It should be noted that this downstream waterbody is not TN limiting as per the EPA's Urban Waste Water Treatment Directive (UWWTD) (91/271/EEC) Article 5 Report (<i>i.e.</i> , Review of nutrient sensitive areas (freshwater and marine) as required by the

	Urban Waste Water Treatment Directive (91/271/EEC), 2020) and therefore a TN ELV is not required.
	The River Bandon downstream of the agglomeration is not a designated Freshwater Pearl Mussel (FWPM) catchment under the European Communities Environmental Objectives (Freshwater Pearl Mussel) Regulations (2009), as amended. It should be noted however that FWPM are known from the Bandon River SAC further upstream of the agglomeration and there may be <i>ex-situ</i> populations downstream of the SAC, but upstream of Bandon. Connectivity to the operational discharges is indirectly established to the Bandon River SAC population due to the role salmonid species play in the FWPM life cycle.
	The River Bandon is a not a designated salmonid waterbody. However, it is important for fishing and is primarily a salmon and sea trout river but also has resident brown trout and there are a number of angling associations in the area.
	The Bandon River SAC is located <i>ca</i> . 29km upstream of primary discharge. The Courtmacsherry Bay SPA is located <i>ca</i> . 10km south of primary discharge, Clonakilty Bay SPA is located <i>ca</i> . 16km southwest of primary discharge and Sovereign Islands SPA is located <i>ca</i> . 29km downstream of primary discharge.
	There are no pNHAs in the immediate vicinity of the operational discharges. The nearest pNHAs downstream of the operational discharges are the Bandon Valley above Inishannon which extends from <i>ca</i> . 1.3km downstream of the primary discharge point for <i>ca</i> . 5km and Bandon Valley West of Bandon pNHA which extends from <i>ca</i> . 3km upstream of the primary discharge point for <i>ca</i> . 3km.
	The Bandon_100, located <i>ca</i> . 1.8km downstream of the primary discharge point, is designated as a drinking water river in accordance with European Communities (Drinking Water) (No. 2) Regulations 2007 (SI no. 278 of 2007).
Are there drinking water abstraction points downstream of waste water discharge points?	There is a drinking water abstraction point at Innishannon located <i>ca.</i> 4.5km downstream of the primary discharge point. A Drinking Water Risk Assessment was carried out by Irish Water and was included in the 2015 AER, and it was determined that the overall risk of the WwTP on the Drinking Abstraction is classified as Low Risk. It is considered based on the Bandon WwTP and Glasslinn Road Pumping Station Upgrade which was completed to improve the treatment processes at the WwTP, thereby resulting in an improved effluent discharge quality, along with the removal of 10 no. SWOs from the agglomeration by the end of Q1 2023, and the assimilative capacity in the receiving waters, that the overall

	risk of the WwTP to this Drinking Abstraction remains as a Low Risk, even based on the WwTPs increased loadings.
European sites hydrologically connected:	The Bandon River SAC is located <i>ca</i> . 29km upstream of the primary discharge point. The Sovereign Islands SPA is <i>ca</i> . 29km downstream of primary discharge in the Western Celtic Sea.
Trophic status of transitional / coastal waters:	The nearest transitional waterbody is <i>ca</i> . 5.1km downstream of the primary discharge (Upper Bandon Estuary – Eutrophic).
Is there a groundwater protection scheme in place or to be provided in the vicinity of such discharge?	Not Applicable
Status of adjacent waterbodies:	Upstream: Bandon_080: Good (2016-2021)
(e.g. upstream and downstream of	Downstream: Bandon_100: Good (2016-2021)
the receiving waterbody)	(Note: Both previously Moderate status (2013-2018)
95%ile River Flow upstream of primary discharge point: (if applicable)	1.57m ³ /s (Source: EPA Estimated 95%ile flow (up to 2018 data))
Receiving water monitoring stations: (code and distance from primary discharge point)	U/S RS20B020800 – ca. 120m u/s of primary discharge point (aSW1u) D/S RS20B020850– ca. 1.8km d/s of primary discharge point (aSW1d)

Refer to **Attachment D.1: Map 8** which displays the receiving water designations in proximity to the discharges from the WwTP.

Та	ble 32 - Receiving waters of second	lary discharges

Type (freshwater, lake etc.)	Not applicable
Name and WFD Ref.	Not applicable
WFD Risk	Not applicable
WFD Status (year)	Not applicable
WFD Objective (year)	Not applicable
Is the agglomeration identified as a significant pressure?	Not applicable
Have the discharges contributed to a deterioration in the quality of the water body?	Not applicable

Protected areas downstream	Not applicable
Are there drinking water	Neteralizable
abstraction points downstream of waste water discharge points?	Not applicable
European sites hydrologically	
connected	Not applicable
Trophic status of transitional / coastal waters	Not applicable
Is there a groundwater protection	
scheme in place or to be provided	Not applicable
in the vicinity of such discharge?	
Status of adjacent waterbodies	
(e.g. upstream and downstream of	Not applicable
the receiving waterbody)	
95%ile River Flow upstream of	
secondary discharge point (if	Not applicable
applicable)	
Receiving water	
monitoring stations upstream and	Not applicable
downstream (code and distance	Not applicable
from secondary discharge point	

 Table 33- Receiving waters of discharges from SWOs⁴

Receiving Waters name and code	WFD status	No. of compliant SWOs ¹	No. of SWOs under assessment or remediation	Is the SWOs identified as a significant pressure?	WFD objective and date
Bandon_080	Good (2016- 2021)	1 ^{1, 4}	0	No	Maintain Good Status (2027)
Bandon_090	Good (2016- 2021)	7 ^{2,4}	0	No	Maintain Good Status (2027)
Bandon_090	Good (2016- 2021)	0	To be decommissioned by end of Q1 2023	Yes ³	Maintain Good Status (2027)

¹ Meeting with DoECLG criteria set out in '*Procedures and Criteria in Relation to Storm Water Overflows*'. ¹ SW017

² SW002, SW004, SW008, SW014, SW016, SW018 and SW020

 3 SW012 $\,$ - Currently a significant pressure however this overflow will be decommissioned by the end of Q1 2023

 4 SWOs remaining in the agglomeration after the completion of the Bandon Watermain & Sewer Network Project – Due to their design these overflows will not be a significant pressure on the catchment.

Table 94 Amstern Homeoning - upstream monitoring point				
EDEN Code (where applicable):	RS20B020800			
Licence Code:	aSW1u			
Monitoring Location:	150362E 055674N			
Point Type:	River			
Name of Receiving Water	Bandon_090			

Table 34 - Ambient monitoring – upstream monitoring point

 Table 35 - Ambient Monitoring – upstream monitoring results (Data Source: Catchments.ie, samples)
 taken at RS20B020800 from Jan 2020 – May 2022)

Parameter	pH (pH Unit)	BOD (mg/l)	Ortho-phosphate (mg/l)	Total Ammonia (mg/l)	DO (mg/l)	DO (%sat)	Temp (°C)
Number of Samples	11	11	11	11	11	11	11
Max result	8.10	5.70	0.086	0.077	12.1	109	17.0
Min result	6.90	0.71	0.011	0.014	9.0	94	9.0
Average result	7.64	1.30	0.033	0.033	10.6	102	13.5
Mean EQS as per S.I. No. 288/2022*	6-9	≤1.5	≤ 0.035	≤0.065			
95%ile EQS as per S.I. No. 288/2022 Good Status *	6-9	≤2.6	≤ 0.075	≤0.14			
Overall compliance with relevant Mean EQS Good Status *	Yes	Yes	Yes	Yes			
Overall compliance with relevant 95%ile EQS Good Status *	Yes	Yes	Yes	Yes			

*EQS under S.I. No. 288 of 2022 Note: Where data was reported as less than the limit of detection, LOD/sqrt(2) was applied

Table 36 - Ambient monitoring results – downstream

EDEN Code (where applicable):	RS20B020850		
Licence Code:	aSW1d		
Monitoring Location:	151648E 056935N		
Point Type:	River		
Name of Receiving Water	Bandon_100		

Table 37 - Ambient Monitoring – downstream monitoring results (Data Source: Catchments.ie, samples taken at RS20B020850 from Jan 2020 – June 2022)

Parameter	pH (pH Unit)	BOD (mg/l)	Ortho- phosphate (mg/l)	Total Ammonia (mg/l)	DO (mg/l)	DO (%sat)	Temp (°C)
Number of Samples	15	15	15	15	-	15	15
Max result	8.60	6.20	0.707	0.197	-	131	19.8
Min result	7.30	0.71	0.016	0.005	-	10	7.1
Average result	7.78	1.89	0.074	0.036	-	98	12.4
Mean EQS as per S.I. No. 288/2022*	6-9	≤1.5	≤ 0.035	≤0.065			
95%ile EQS as per S.I. No. 288/2022 Good Status *	6-9	≤2.6	≤ 0.075	≤0.14			
Overall compliance with relevant Mean EQS Good Status *	Yes	No	No	Yes			
Overall compliance with relevant 95%ile EQS Good Status	Yes	Yes	Yes	Yes			

*EQS under S.I. No. 288 of 2022 Note: Where data was reported as less than the limit of detection, LOD/sqrt(2) was applied

(where	Licence Code	Monitorin	g Location	Point Type	Name of Receiving Water
RS20B020800	aSW1u	150362E	055674N	River	Bandon_090
RS20B020850	aSW1d	151648E	056935N	River	Bandon_100

 Table 38 - Proposed Receiving Water Monitoring (as per D0136-01)

Table 39 - Proposed Monitoring Regime	(as per D0136-01 with proposed TP included)
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Parameter	Units	Monitoring Frequency	Analysis method/Technique
рН	pH Unit	Bi-monthly	pH Meter and Recorder
BOD	mg/l	Bi-monthly	Standard Method
Orthophosphate (as P)	mg/l	Bi-monthly	Standard Method
Total Ammonia	mg/l	Bi-monthly	Standard Method
Total Phosphorus	mg/l	Bi-monthly	Standard Method
Suspended Solids	mg/l	Bi-monthly	Standard Method
COD	mg/l	Bi-monthly	Standard Method
Visual inspections	Descriptive	Bi-monthly	Standard Method

D.2 Assessment of impact on receiving waters

This part of the application form collects reports on the assessment of the impact of existing and proposed waste water discharges on the environment including any environmental medium other than that into which the discharges take place or are to take place. The impact assessment reports address at least the impact on the quality of receiving waters (surface water or groundwater) and may, as appropriate, address European sites.

Where a Natura Impact Statement (NIS) does not accompany the application, you are required to provide an Appropriate Assessment (AA) screening report.

	Yes, Attachment D.2.2: AA Screening &
Is this application accompanied by an NIS?	Natura Impact Statement Report, December
	2022

D.2.1 Supporting document

The impact Assessment Report should be submitted (as Attachment D2) in accordance with the guidance and the name assigned to the attachment(s) provided in the table below.

Document type	Document name
Impact assessment report	Attachment D.2.1: Impact Assessment Report, December 2022
Natura Impact Statement	Attachment D.2.2: AA Screening & Natura Impact Statement Report, December 2022
EIAR	Attachment B.5: Environmental Impact Assessment Report, December 2022
Waste Assimilative Capacity	Attachment D.2.3: Waste Assimilative Capacity, October 2022
Priority Substance Assessment Report	Attachment D.2.4: Priority Substance Assessment Report, November 2022

Table 40 - Assessment Reports.

D.3 Closing Remarks

This part of the application form is a short statement summarising the environmental outcome of your application and assessment.

State the environmental outcome of your application and assessment and reasons for same:

Answer here:

The Bandon WwTW has been designed to ensure that emissions from the agglomeration will not result in the contravention of EU Directives and National Regulations.

The proposed effluent standards for the Bandon WwTP give effect to the principle of the Combined Approach as defined in Waste Water Discharge (Authorisation) Regulations, 2007 to 2020 in that they accommodate the Urban Waste Water Regulations and the WFD status and the relevant designations /status of the receiving waterbody, the River Bandon.

The Storm Water Overflows from the agglomeration have been designed to meet the definition of *'Storm Water Overflow'* as per Regulation 3 of the Waste Water Discharge (Authorisation) Regulations, 2007, as amended, and the criteria as set out in the DoEHLG *'Procedures and Criteria in Relation to Storm Water Overflows'*, 1995. Provision has been made for a standby power supply at the Glasslinn Road Pumping Station and at the WwTP to provide for continued operation of the pumping equipment and treatment processes in the event of an interruption in the power supply. There is also the connection for a generator available at Castlewoods Pumping Station and Kilbrogan Pumping Station. The above, along with the removal of 10 no. SWOs from the Bandon agglomeration, will ensure the protection of the receiving aquatic environment.

Based on the above, and the WAC calculations, along with the conclusions of the EIAR, NIS, Priority Substances Assessment Report and Impact Assessment Report, which support this review application, it is considered that the operational discharges from the Bandon agglomeration will have no significant effects on the receiving aquatic environment, alone or in combination with other plans and projects.

In summary, Irish Water is committed to ensuring that the Bandon WwTW operates in a manner that supports the achievement of the water body objectives under the WFD, and their obligations under the Birds and Habitats Directives, and all applicable Directives and National Regulations.

The upgrade works to the WwTP and associated proposed effluent discharge standards (*i.e.*, BOD 25mg/I, COD 125mg/I, Suspended Solids 35mg/I, Total Phosphorus 2mg/I, Total Ammonia 3mg/I, and Ortho-P 1.6mg/I) and the operational design of the overflows will ensure that the operational discharges from the agglomeration (i) contribute towards maintaining at least Good status (2016-2021 WFD status) of the Bandon_090 and Bandon_080 and (ii) will ensure that there is no environmental risk posed to the receiving water environment and its associated designation as a result of the discharges from the agglomeration.

SECTION E: DECLARATION

E.1. Declaration

The Signed Declaration template should be downloaded from the EPA website (<u>www.epa.ie</u>), completed and submitted in accordance with the Guidance Document.

E.1.1 Supporting documentation

The name assigned to the Signed Declaration document should be provided in the following table:

Table 41	- Signed	Declaration	document name
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Document type	Document name
Declaration	Attachment E.1: Signed Declaration

END