

# Annual Environmental Report

2022



Ardfert

D0282-01

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# 1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2022 AER

This Annual Environmental Report has been prepared for D0282-01, Ardfert, in Kerry in accordance with the requirements of the wastewater discharge licence for the agglomeration. Specified reports where relevant are included as an appendix to the AER.

## 1.1 ANNUAL STATEMENT OF MEASURES

A summary of any improvements undertaken is provided where applicable.

There was no major capital or operational changes undertaken

## 1.2 TREATMENT SUMMARY

The agglomeration is served by a wastewater treatment plant(s)

- Ardfert WWTP with a Plant Capacity PE of 1200, the treatment type is 2 - Secondary treatment .

## 1.3 ELV OVERVIEW

The overall compliance of the final effluent with the Emission Limit Values (ELVs) is shown below. More detailed information on the below ELV's can be found in Section 2.

Discharge Point Reference	Treatment Plant	Discharge Type	Compliance Status	Parameters failing if relevant
TPEFF1300D0282SW001	Ardfert WWTP	Treated	Compliant	N/A

## 1.4 LICENCE SPECIFIC REPORTING

Assessment / Report

**There are no Licence Specific Reports included in this AER.**

## 2 TREATMENT PLANT PERFORMANCE AND IMPACT SUMMARY

### 2.1 ARDFERT WWTP - TREATED DISCHARGE

#### 2.1.1 INFLUENT MONITORING SUMMARY - ARDFERT WWTP

A summary of influent monitoring for the treatment plant is presented below. This monitoring is primarily undertaken in order to determine the overall efficiency of the plant in removing pollutants from the raw wastewater.

Parameters	Number of Samples	Annual Max	Annual Mean
<b>BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l</b>	6	332	160
<b>COD-Cr mg/l</b>	6	772	327
<b>pH pH units</b>	6	7.90	7.72
<b>Suspended Solids mg/l</b>	6	352	165
<b>Ammonia-Total (as N) mg/l</b>	4	53	25
<b>Hydraulic Capacity</b>	N/A	875	311

If other inputs in the form of sludge / leachate are added to the WWTP then these are included in Section 2.1.5 if applicable.

#### Significance of Results:

The annual mean hydraulic loading is less than the peak Treatment Plant Capacity. The annual maximum hydraulic loading is greater than the peak Treatment Plant Capacity. Further details on the plant capacity and efficiency can be found under the sectional 'Operational Performance Summary'. The design of the wastewater treatment plant allows for peak values and therefore the peak loads have not impacted on compliance with Emission Limit Values.

## 2.1.2 EFFLUENT MONITORING SUMMARY - TPEFF1300D0282SW001

Parameter	WWDL ELV (Schedule A)	ELV with Condition 2 Interpretation included Note 1	Interim % reduction from influent concentration	Number of sample results	Number of exceedances	Number of exceedances with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
<b>BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l</b>	25	50	N/A	6	N/A	N/A	2.89	Pass
<b>Ammonia-Total (as N) mg/l</b>	10	12	N/A	6	N/A	N/A	0.435	Pass
<b>pH pH units</b>	9	9	N/A	6	N/A	N/A	7.93	Pass
<b>ortho-Phosphate (as P) - unspecified mg/l</b>	8	9.6	N/A	6	N/A	N/A	0.944	Pass
<b>Visual Inspection Descriptive</b>	N/A	N/A	N/A	6	N/A	N/A	N/A	
<b>E. Coli no./100mls</b>	N/A	N/A	N/A	2	N/A	N/A	11041	
<b>Suspended Solids mg/l</b>	N/A	N/A	N/A	6	N/A	N/A	4.29	
<b>Faecal coliforms no./100mls</b>	N/A	N/A	N/A	1	N/A	N/A	4611	
<b>COD-Cr mg/l</b>	N/A	N/A	N/A	6	N/A	N/A	25	

Parameter	WWDL ELV (Schedule A)	ELV with Condition 2 Interpretation included Note 1	Interim % reduction from influent concentration	Number of sample results	Number of exceedances	Number of exceedances with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
<b>Enterococci (Intestinal) no./100mls</b>	N/A	N/A	N/A	2	N/A	N/A	1415	
<b>Total Oxidised Nitrogen (as N) mg/l</b>	N/A	N/A	N/A	6	N/A	N/A	4.00	

Notes:

1 – This represents the Emission Limit Values after the Interpretation provided for under Condition 2 of the licence is applied

2 – For pH the WWDA specifies a range of pH 6 - 9

### Cause of Exceedance(s):

Not applicable

### Significance of Results:

The WWTP is compliant with the ELV's set in the Wastewater Discharge Licence.

## 2.1.3 AMBIENT MONITORING SUMMARY FOR THE TREATMENT PLANT DISCHARGE TPEFF1300D0282SW001

A summary of monitoring from ambient monitoring points associated with the wastewater discharge is provided in the sections below. For discharges to rivers upstream (U/S) and downstream (D/S) location data is provided. For other ambient points in lakes, coastal or transitional waters, monitoring data from the most appropriate monitoring station is selected.

The table below provides details of ambient monitoring locations and details of any designations as sensitive areas.



Ambient Monitoring Point from WWDL (or as agreed with EPA)	Irish Grid Reference	River Station Code	Bathing Water	Drinking Water	FWPM	Shellfish	WFD Ecological Status
Upstream	79037,121329	RS23T020400	No	No	No	No	Bad
Downstream	76005, 122427	RS23T020500	No	No	No	No	Poor

The table below provides a summary of monitoring results for designated ambient monitoring points. The upstream and downstream annual mean values are shown (mg/l), and the difference between both monitoring stations is given as a percentage of the Environmental Quality Standard (EQS) where relevant.

Parameter Name	Upstream Monitoring Point Location	Upstream Monitoring Point Annual Mean	Downstream Monitoring Point Location	Downstream Monitoring Point Annual Mean	EQS	% of EQS
<b>BOD - 5 days (Total) mg/l</b>	RS23T020400	1.22	RS23T020500	0.983	1.50	
<b>Ammonia-Total (as N) mg/l</b>	RS23T020400	0.071	RS23T020500	0.067	0.065	
<b>ortho-Phosphate (as P) - unspecified mg/l</b>	RS23T020400	0.037	RS23T020500	0.063	0.035	
<b>Benzo(g,h,i)perylene ng/l</b>	RS23T020400	0.707	RS23T020500	N/A	N/A	
<b>beta-Hexabromocyclododecane (HBCDD) µg/l</b>	RS23T020400	N/A	RS23T020500	N/A	N/A	
<b>Alkalinity-total (as CaCO3) mg/l</b>	RS23T020400	273	RS23T020500	286	N/A	
<b>Boron - filtered µg/l</b>	RS23T020400	22	RS23T020500	N/A	N/A	
<b>Benzo(a)pyrene ng/l</b>	RS23T020400	0.707	RS23T020500	N/A	N/A	
<b>Barium - filtered µg/l</b>	RS23T020400	5.38	RS23T020500	N/A	N/A	
<b>Anthracene ng/l</b>	RS23T020400	0.707	RS23T020500	N/A	N/A	

Parameter Name	Upstream Monitoring Point Location	Upstream Monitoring Point Annual Mean	Downstream Monitoring Point Location	Downstream Monitoring Point Annual Mean	EQS	% of EQS
Benzo(b)fluoranthene ng/l	RS23T020400	0.734	RS23T020500	N/A	N/A	
Antimony - filtered µg/l	RS23T020400	0.707	RS23T020500	N/A	N/A	
Atrazine ng/l	RS23T020400	1.41	RS23T020500	N/A	N/A	
Dissolved Oxygen % Saturation	RS23T020400	79	RS23T020500	87	N/A	
Fluoranthene ng/l	RS23T020400	0.781	RS23T020500	N/A	N/A	
Dissolved Oxygen mg/l	RS23T020400	8.38	RS23T020500	8.98	N/A	
Cadmium - filtered µg/l	RS23T020400	0.035	RS23T020500	N/A	N/A	
E. Coli no./100mls	RS23T020400	104	RS23T020500	1643	N/A	
Enterococci (Intestinal) no./100mls	RS23T020400	30	RS23T020500	1236	N/A	
Copper - filtered µg/l	RS23T020400	23	RS23T020500	N/A	N/A	
C10-C13 Chloroalkanes µg/l	RS23T020400	0.306	RS23T020500	N/A	N/A	
Faecal coliforms no./100mls	RS23T020400	131	RS23T020500	N/A	N/A	
Conductivity @20°C µS/cm	RS23T020400	589	RS23T020500	628	N/A	
Di(2-ethylhexyl) phthalate (DEHP) µg/l	RS23T020400	0.191	RS23T020500	N/A	N/A	
Chromium - filtered µg/l	RS23T020400	0.806	RS23T020500	N/A	N/A	

Parameter Name	Upstream Monitoring Point Location	Upstream Monitoring Point Annual Mean	Downstream Monitoring Point Location	Downstream Monitoring Point Annual Mean	EQS	% of EQS
Cypermethrin µg/l	RS23T020400	N/A	RS23T020500	N/A	N/A	
Nitrite (as N) µg/l	RS23T020400	13	RS23T020500	24	N/A	
Glyphosate ng/l	RS23T020400	134	RS23T020500	N/A	N/A	
Magnesium - filtered mg/l	RS23T020400	8.06	RS23T020500	N/A	N/A	
MCPA ng/l	RS23T020400	16	RS23T020500	N/A	N/A	
gamma-Hexabromocyclododecane µg/l	RS23T020400	N/A	RS23T020500	N/A	N/A	
Iron - filtered µg/l	RS23T020400	35	RS23T020500	N/A	N/A	
Isoproturon ng/l	RS23T020400	1.41	RS23T020500	N/A	N/A	
Mercury - filtered µg/l	RS23T020400	0.101	RS23T020500	N/A	N/A	
Nitrate (as N) mg/l	RS23T020400	4.48	RS23T020500	3.88	N/A	
Perfluorooctane sulfonic acid (PFOS) µg/l	RS23T020400	N/A	RS23T020500	N/A	N/A	
Selenium - filtered µg/l	RS23T020400	1.01	RS23T020500	N/A	N/A	
Sodium - filtered mg/l	RS23T020400	22	RS23T020500	N/A	N/A	
Total Oxidised Nitrogen (as N) mg/l	RS23T020400	4.52	RS23T020500	3.81	N/A	
True Colour mg/litre Pt Co	RS23T020400	30	RS23T020500	10	N/A	

Parameter Name	Upstream Monitoring Point Location	Upstream Monitoring Point Annual Mean	Downstream Monitoring Point Location	Downstream Monitoring Point Annual Mean	EQS	% of EQS
Strontium - filtered µg/l	RS23T020400	131	RS23T020500	N/A	N/A	
Temperature °C	RS23T020400	13	RS23T020500	13	N/A	
Suspended Solids mg/l	RS23T020400	17	RS23T020500	3.18	N/A	
Vanadium - filtered µg/l	RS23T020400	0.806	RS23T020500	N/A	N/A	
Arsenic - filtered µg/l	RS23T020400	0.707	RS23T020500	N/A	N/A	
alpha-Hexabromocyclododecane (HBCDD) µg/l	RS23T020400	N/A	RS23T020500	N/A	N/A	
Benzo(k)fluoranthene ng/l	RS23T020400	0.707	RS23T020500	N/A	N/A	
2,4-D ng/l	RS23T020400	41	RS23T020500	N/A	N/A	
Bifenox µg/l	RS23T020400	N/A	RS23T020500	N/A	N/A	
Aluminium - filtered µg/l	RS23T020400	14	RS23T020500	N/A	N/A	
Beryllium - filtered µg/l	RS23T020400	0.707	RS23T020500	N/A	N/A	
AMPA ng/l	RS23T020400	141	RS23T020500	N/A	N/A	
Dicofol µg/l	RS23T020400	N/A	RS23T020500	N/A	N/A	
Calcium - filtered mg/l	RS23T020400	96	RS23T020500	N/A	N/A	
Chloride mg/l	RS23T020400	46	RS23T020500	53	N/A	

Parameter Name	Upstream Monitoring Point Location	Upstream Monitoring Point Annual Mean	Downstream Monitoring Point Location	Downstream Monitoring Point Annual Mean	EQS	% of EQS
Dissolved Organic Carbon mg/l	RS23T020400	3.46	RS23T020500	N/A	N/A	
Diuron ng/l	RS23T020400	3.54	RS23T020500	N/A	N/A	
Conductivity @25°C µS/cm	RS23T020400	690	RS23T020500	737	N/A	
Cobalt - filtered µg/l	RS23T020400	0.707	RS23T020500	N/A	N/A	
Perfluorooctanoic acid (PFOA) µg/l	RS23T020400	N/A	RS23T020500	N/A	N/A	
Nickel - filtered µg/l	RS23T020400	1.06	RS23T020500	N/A	N/A	
Indeno(1,2,3-c,d)pyrene ng/l	RS23T020400	0.707	RS23T020500	N/A	N/A	
Molybdenum - filtered µg/l	RS23T020400	5.00	RS23T020500	N/A	N/A	
Mecoprop ng/l	RS23T020400	3.54	RS23T020500	N/A	N/A	
Lead - filtered µg/l	RS23T020400	0.208	RS23T020500	N/A	N/A	
Manganese - filtered µg/l	RS23T020400	6.80	RS23T020500	N/A	N/A	
Linuron ng/l	RS23T020400	3.54	RS23T020500	N/A	N/A	
Fluoride mg/l	RS23T020400	0.141	RS23T020500	N/A	N/A	
Zinc - filtered µg/l	RS23T020400	2.25	RS23T020500	N/A	N/A	
Simazine ng/l	RS23T020400	1.41	RS23T020500	N/A	N/A	

Parameter Name	Upstream Monitoring Point Location	Upstream Monitoring Point Annual Mean	Downstream Monitoring Point Location	Downstream Monitoring Point Annual Mean	EQS	% of EQS
<b>Total Hardness (as CaCO<sub>3</sub>) mg/l</b>	RS23T020400	312	RS23T020500	338	N/A	
<b>Sum 4_IWW: Benzo[b]fluoranthene+Benzo[k]fluoranthene ng/l</b>	RS23T020400	1.41	RS23T020500	N/A	N/A	
<b>Terbutryn ng/l</b>	RS23T020400	3.34	RS23T020500	N/A	N/A	
<b>Uranium - filtered µg/l</b>	RS23T020400	8.64	RS23T020500	N/A	N/A	
<b>Potassium - filtered mg/l</b>	RS23T020400	3.46	RS23T020500	N/A	N/A	
<b>Thallium - filtered µg/l</b>	RS23T020400	0.141	RS23T020500	N/A	N/A	
<b>pH pH units</b>	RS23T020400	7.87	RS23T020500	7.99	N/A	

### Significance of Results:

The WWTP discharge was compliant with the ELV's set in the wastewater discharge licence.

The ambient monitoring results do not meet the required EQS at the upstream and the downstream monitoring locations. The EQS relates to the Oxygenation and Nutrient Conditions set out in the Surface Water Regulations 2009.

Based on ambient monitoring results a deterioration in Ortho P, concentrations downstream of the effluent discharge is noted.

A deterioration in water quality has been identified, however it is not known if it is or is not caused by the WWTP.

Other causes of deterioration in water quality in the area are unknown.

The discharge from the wastewater treatment plant does not have an observable negative impact on the Water Framework Directive status.

## 2.1.4 OPERATIONAL PERFORMANCE SUMMARY - ARDFERT WWTP

### 2.1.4.1 Treatment Efficiency Report - Ardfert WWTP

Treatment efficiency is based on the removal of key pollutants from the influent wastewater by the treatment plant. In essence the calculation is based on the balance of load coming into the plant versus the load leaving the plant. The efficiency is presented as a percentage removal rate.

A summary presentation of the efficiency of the treatment process including information for all the parameters specified in the licence is included below:

Parameter	Influent mass loading (kg/year)	Effluent mass emission (kg/year)	Efficiency (% reduction of influent load)
TN	N/A	N/A	N/A
TP	N/A	N/A	N/A
COD	30985	2248	93
SS	15666	392	98
cBOD	15152	264	98

Note: The above data is based on sample results for the number of dates reported

### 2.1.4.2 Treatment Capacity Report Summary - Ardfert WWTP

Treatment capacity is an assessment of the hydraulic (flow) and organic (the amount of pollutants) load a treatment plant is designed to treat versus the current loading of that plant.

Ardfert WWTP	
Peak Hydraulic Capacity (m <sup>3</sup> /day) - As Constructed	810
DWF to the Treatment Plant (m <sup>3</sup> /day)	270
Current Hydraulic Loading - annual max (m <sup>3</sup> /day)	875

Ardfert WWTP	
Average Hydraulic loading to the Treatment Plant (m <sup>3</sup> /day)	311
Organic Capacity (PE) - As Constructed	1200
Organic Capacity (PE) - Collected Load (peak week) <sup>Note1</sup>	930
Organic Capacity (PE) - Remaining	270
Will the capacity be exceeded in the next three years? (Yes/No)	No

Nominal design capacities can be based on conservative design principles. In some cases assessment of existing plants has shown organic capacities significantly higher than the nominal design capacity. Accordingly plants that appear to be overloaded when comparing a collected peak load with the nominal design capacity can be fully compliant due to the safety factors in the original design.

## 2.1.5 SLUDGE / OTHER INPUTS - ARDFERT WWTP

'Other inputs' to the waste water treatment plant are summarised in table below

Input type	Quantity	Unit	P.E.	% of load to WWTP	Included in Influent Monitoring (Y/N)?	Is there a leachate/sludge acceptance procedure for the WWTP?	Is there a dedicated leachate/sludge acceptance facility for the WWTP? (Y/N)
There is no Sludge and Other Input data for the Treatment Plant included in the AER.							



## 3 COMPLAINTS AND INCIDENTS

### 3.1 COMPLAINTS SUMMARY

A summary of complaints of an environmental nature related to the discharge(s) to water from the WWTP and network is included below.

Number of Complaints	Nature of Complaint	Number Open Complaints	Number Closed Complaints
<b>There were no relevant environmental complaints in 2022.</b>			

### 3.2 REPORTED INCIDENTS SUMMARY

Environmental incidents that arise in an agglomeration are reported on an on-going basis in accordance with our waste water discharge licences. Where an incident occurs and it is reportable under the licence, it is reported to the Environmental Protection Agency through their Environmental Data Exchange Network, or in some instances by telephone. Some incidents which arise in the agglomeration are recorded by Uisce Éireann but may not be reportable under our licence for example where the incident does not have an impact on environmental performance.

A summary of reported incidents is included below.

#### 3.2.1 SUMMARY OF INCIDENTS

Incident Type	Cause	No. of incident occurrences	Recurring (Y/N)	Closed (Y/N)
<b>There were no reportable incidents in 2022.</b>				

### 3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer
Number of Incidents in 2022	0
Number of Incidents reported to the EPA via EDEN in 2022	0
Explanation of any discrepancies between the two numbers above	N/A

## 4 INFRASTRUCTURAL ASSESSMENTS AND PROGRAMME OF IMPROVEMENTS

### 4.1 STORM WATER OVERFLOW IDENTIFICATION AND INSPECTION REPORT

A summary of the operation of the storm water overflows and their significance where known is included below:

#### 4.1.1 SWO IDENTIFICATION

WWDL Name / Code for Storm Water Overflow (chamber) where applicable	Irish Grid Ref. (outfall)	Included in Schedule of the WWDL	Significance of the overflow(High / Medium / Low)	Assessed against DoEHLG Criteria	No. of times activated in 2022 (No. of events)	Total volume discharged in 2022 (m3)	Monitoring Status
SW002	78112,121203	Yes	Low Significance	Not Meeting Criteria	Unknown	Unknown	Not Monitored
SW004	76593,121678	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Monitored
TBC	TBC,TBC	No	TBC	Not yet Assessed	Unknown	Unknown	TBC

Any TBC SWO(s) were identified as part of the on-going National SWO programme and will be updated in subsequent AER(s) once the information is confirmed.

SWO Summary	
How much sewage was discharged via monitored SWOs in the agglomeration in the year (m3)?	Unknown
Is each SWO identified as not meeting DoEHLG Guidance included in the Programme of Improvements?	Yes
The SWO Assessment included the requirements of relevant of WWDL schedules?	Yes

## SWO Summary

Have the EPA been advised of any additional SWOs / changes to Schedule C3 and A4 under Condition 1.7?

No

## 4.2 REPORT ON PROGRESS MADE AND PROPOSALS BEING DEVELOPED TO MEET THE IMPROVEMENT PROGRAMME REQUIREMENTS.

### 4.2.1 SPECIFIED IMPROVEMENT PROGRAMME SUMMARY

A wastewater discharge licence may require a number of reports on specific subject areas to be prepared for the agglomeration in question. These reports are submitted to the EPA as part of the Annual Environmental Report. This section provides a list of the various reports required for this agglomeration and a brief summary of their recommendations.

Specified Improvement Programmes (under Schedule A and C of WWDL)	Description	Licence Schedule	Licence Completion Date	Date Expired? (N/NA/Y)	Status of Works	Timeframe for Completing the Work	Comments
<b>D0282-SIP:01</b>	Build and commission a new wastewater treatment plant to ensure compliance with the ELVs specified in Schedule A: Discharges and Discharge Monitoring of this licence.	C	01/05/2018	Yes	Works Completed		
<b>D0282-SIP:02</b>	Improvement works to ensure compliance with Condition 1.7	C	01/05/2018	Yes	Works Completed		
<b>D0282-SIP:03</b>	Primary Discharge Point SW001 to be Discontinued	C	01/05/2018	Yes	Works Completed		

Specified Improvement Programmes (under Schedule A and C of WWDL)	Description	Licence Schedule	Licence Completion Date	Date Expired? (N/NA/Y)	Status of Works	Timeframe for Completing the Work	Comments
<b>D0282-SIP:04</b>	Storm Water Overflow SW002 to be discontinued	C	01/05/2018	Yes	Works Completed		

A summary of the status of any other improvements identified by under Condition 5 assessments- is included below.

#### 4.2.2 IMPROVEMENT PROGRAMME SUMMARY

Improvement Identifier	Improvement Description / or any Operational Improvements	Improvement Source	Expected Completion Date	Comments
<b>No additional improvements planned at this time.</b>				

#### 4.2.3 SEWER INTEGRITY RISK ASSESSMENT

The utilisation of multiple capital maintenance programmes and the outputs of the workshops with the Local Authority Operations Staff held under the programme can be used to satisfy the requirements of Condition 5 regarding network integrity. Improvement works identified by way of these programmes and workshops will be included in the Improvements Summary Tables 4.2.1 and 4.2.2.

## 5 LICENCE SPECIFIC REPORTS

A wastewater discharge licence may require a number of reports on specific subject areas to be prepared for the agglomeration in question. These reports are submitted to the EPA as part of the Annual Environmental Report. This section provides a list of the various reports required for this agglomeration and a brief summary of their recommendations.

Licence Specific Report	Required by licence	Year included in AER	Included in this AER
Priority Substances Assessment	Yes	2015	No
Shellfish Impact Assessment	Yes		No

## 6 CERTIFICATION AND SIGN OFF

### 6.1 SUMMARY OF AER CONTENTS

Parameter	Answer
Does the AER include an Executive Summary?	Yes
Does the AER include an assessment of the performance of the Waste Water Works (i.e. have the results of assessments been interpreted against WWDL requirements and or Environmental Quality Standards)?	Yes
Is there a need to advise the EPA for Consideration of a Technical Amendment/Review of the Licence?	No
List reason e.g. additional SWO identified	N/A
Is there a need to request/advise the EPA of any modification to the existing WWDL with respect to condition 4 changes to monitoring location, frequency etc	Yes
List reason e.g. changes to monitoring requirements	Ambient Monitoring Location Changes
Have these processes commenced?	No
Are all outstanding reports and assessments from previous AERs included as an appendix to this AER	N/A

I certify that the information given in this Annual Environmental Report is truthful, accurate and complete:

Signed:    Date: 22/05/2023

This AER has been produced by Uisce Éireann's Environmental Information System (EIMS) and has been electronically signed off in that system for and on behalf of ,

Eleanor Roche

Acting Head of Environmental Regulation.



## **7 APPENDIX**

There are no Appendices included