# Annual Environmental Report





Clogheen

D0453-01

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# **1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2020 AER**

This Annual Environmental Report has been prepared for D0453-01, Clogheen, in Tipperary 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 were no Capital Works or any Operational Improvements undertaken in 2020.

## **1.2 TREATMENT SUMMARY**

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

• CLOGHEEN WWTP - 2020 with a Plant Capacity PE of 1000, the treatment type is 3P - Tertiary P removal

## **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
TPEFF2900D0453SW001	CLOGHEEN WWTP - 2020	Treated	Compliant	N/A

## **1.4 LICENCE SPECIFIC REPORTING INCLUDED IN AER**

Assessment / Report

Included in AER

There are no Licence Specific Reports included in the AER.

# **2 TREATMENT PLANT PERFORMANCE AND IMPACT SUMMARY**

## 2.1 CLOGHEEN WWTP - 2020 - TREATED DISCHARGE

## 2.1.1 INFLUENT MONITORING SUMMARY - CLOGHEEN WWTP - 2020

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	
Total Phosphorus (as P) mg/l	11	9.6	4.9	
COD-Cr mg/l	11	1321	492.68	
Total Nitrogen mg/l	11	85.4	42.19	
Suspended Solids mg/l	11	725	189.68	
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/I	11	525	220.57	
Hydraulic Capacity	N/A	490	109	

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 less 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 tretament 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 - TPEFF2900D0453SW003

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 with Condition 2 Interpretation included	Annual Mean	Overall Compliance (Pass/Fail)
COD-Cr mg/l	125	250	N/A	11	N/A	N/A	18.96	Pass
Suspended Solids mg/l	30	75	N/A	11	N/A	N/A	3.67	Pass
BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l	20	40	N/A	11	N/A	N/A	2.36	Pass
pH pH units	9	9	N/A	11	N/A	N/A	7.25	Pass
Ammonia-Total (as N) mg/l	5	6	N/A	11	N/A	N/A	0.56	Pass
ortho-Phosphate (as P) - unspecified mg/l	1	1.2	N/A	11	N/A	N/A	0.27	Pass
Total Nitrogen mg/l	N/A	N/A	N/A	11	N/A	N/A	14.39	
Total Phosphorus (as P) mg/l	N/A	N/A	N/A	11	N/A	N/A	0.39	

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

#### 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 TPEFF2900D0453SW003

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 Status
Upstream	200509, 114072	RS16T010310	No	No	Yes	No	Good
Downstream	200618, 114130	RS16T010320	No	No	Yes	No	Good

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
BOD - 5 days (Total) mg/l	RS16T010310	2	RS16T010320	2	1.5	0

Parameter Name	Upstream Monitoring Point Location	Upstream Monitoring Point Annual Mean	Downstream Monitoring Point Location	Downstream Monitoring Point Annual Mean	EQS	% of EQS
Ammonia-Total (as N) mg/l	RS16T010310	0.03	RS16T010320	0.03	0.065	0
ortho-Phosphate (as P) - unspecified mg/l	RS16T010310	0.028	RS16T010320	0.03	0.035	7.6
Temperature °C	RS16T010310	10.767	RS16T010320	10.767		
pH pH units	RS16T010310	8.063	RS16T010320	8.093		
Total Nitrogen mg/l	RS16T010310	2.2	RS16T010320	2.633		
Dissolved Oxygen mg/l	RS16T010310	10.5	RS16T010320	10.43		
Dissolved Oxygen % O2	RS16T010310	94.433	RS16T010320	93.55		

#### Significance of Results:

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

The ambient monitoring results does not meet the required EQS. The EQS relates to the Oxygenation and Nutrient Conditions set out in the Surface Water Regulations 2009.

The discharge from the wastewater treatment plant does not have an observable impact on the water quality.

A deterioration in water quality has been identified, however it is not known if it 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 - CLOGHEEN WWTP - 2020

#### 2.1.4.1 Treatment Efficiency Report - CLOGHEEN WWTP - 2020

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)	
ТN	1373	469	66	
ТР	160	13	92	
SS	6174	120	98	
cBOD	7180	77	99	
COD	16037	617	96	

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

#### 2.1.4.2 Treatment Capacity Report Summary - CLOGHEEN WWTP - 2020

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.

CLOGHEEN WWTP - 2020			
Peak Hydraulic Capacity (m³/day) - As Constructed	675		
DWF to the Treatment Plant (m³/day)			
Current Hydraulic Loading - annual max (m³/day)	490		

CLOGHEEN WWTP - 2020					
Average Hydraulic loading to the Treatment Plant (m³/day)	109				
Organic Capacity (PE) - As Constructed					
Organic Capacity (PE) - Collected Load (peak week) <sup>№ote1</sup>					
Organic Capacity (PE) - Remaining					
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 - CLOGHEEN WWTP - 2020

'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	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 is included below.

Number of Complaints	Nature of Complaint	Number Open Complaints	Number Closed Complaints					
There were no relevant environmental complaints in 2020.								

## **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 Irish Water 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)				
There were no reportable incidents in 2020.								

## **3.2.2 SUMMARY OF OVERALL INCIDENTS**

Question	Answer
Number of Incidents in 2020	0
Number of Incidents reported to the EPA via EDEN in 2020	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	Irish Grid Ref.	Included in Schedule A4 of the WWDL	Significance of the overflow(High / Medium / Low)	Assessed against DoEHLG Criteria	No. of times activated in 2020 (No. of events)	Total volume discharged in 2020 (m3)	Monitoring Status
SW4	200537, 114125	Yes	Low	Meeting	Unknown	0	Monitored

SWO Summary	
How much sewage was discharged via SWOs in the agglomeration in the year (m3)?	Unknown
Is each SWO identified as not meeting DoEHLG Guidance included in the Programme of Improvements?	No
The SWO Assessment included the requirements of relevant of WWDL schedules?	Yes
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 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
D0453-SIP:01	SW3 to discontinue	A	31/12/2011	Yes	Works Completed		

A summary of the status of any improvements identified by under Condition 5.2 is included below.

## 4.2.2 IMPROVEMENT PROGRAMME SUMMARY

Improvement	Improvement Description / or any Operational	Improvement	Expected Completion	Comments
Identifier	Improvements	Source	Date	
There are no Improven	nents Programme for this Agglomeration.			

## 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 Table.

# **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 list of the various reports required for this agglomeration and a brief summary of their recommendations.

5.a Licence Specific Reports Summary Table

Licence Specific Report	Required by licence	Year included in AER	Included in this AER	Reference to relevant section of AER
Priority Substances Assessment	Yes		No	

## **5.1 PRIORITY SUBSTANCES ASSESSMENT**

# **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	No
List reason e.g. changes to monitoring requirements	N/A
Have these processes commenced?	N/A
Are all outstanding reports and assessments from previous AERs included as an appendix to this AER	Yes

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

Signed: Date: 01/06/2021

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

Katherine Walshe

Acting Head of Environmental Regulation.

# **7** APPENDIX

#### Appendix

Appendix 7.1 - Ambient monitoring summary

#### Clogheen Ambient Monitoring Data 2020

							Parameter	Ammonia N	<b>Biological Oxyg</b>	COD Chemical	Dissolved Oxyg	Ortho-Phospha	рН	Suspended Sol	Temperature	TN
							Max.									
							Min.									
							Test Method									
Entity	Station	Station Reference	Easting	Northing	Sample Refere	r Sample Date	Analyst Conclu:	mg/l	mg/l	mg/l	mg/l	mg/l	pH units	mg/l	Degrees C	mg/l
Tar River	Upstream @ Clogheen WWTP	RS16T010310	200509	114072	2055	21/01/2020	-	0.03	2		11.13	0.038	8.2		7.2	1.4
Tar River	Downstream @ Clogheen WWTP	RS16T010320	200618	114131	2055	21/01/2020	-	0.03	2		11.49	0.038	8.2		6.6	2.7
Tar River	Upstream @ Clogheen WWTP	RS16T010310	200509	114072	2055	06/05/2020	-	0.03	2		11.03	0.016	8.29		10.5	2.2
Tar River	Downstream @ Clogheen WWTP	RS16T010320	200618	114131	2055	06/05/2020	-	0.03	2		10.54	0.016	8.38		11.4	2.2
Tar River	Upstream @ Clogheen WWTP	RS16T010310	200509	114072	2055	26/08/2020	-	0.03	2		9.34	0.029	7.7		14.6	3
Tar River	Downstream @ Clogheen WWTP	RS16T010320	200618	114131	2055	26/08/2020	-	0.03	2		9.26	0.037	7.7		14.3	3
Tar River	Upstream @ Clogheen WWTP	RS16T010310	200509	114072	2055	08/10/2020	-	0.03	2		9.98	0.03	7.4		11.2	3
Tar River	Downstream @ Clogheen WWTP	RS16T010320	200618	114131	2055	08/10/2020	-	0.04	2		10.24	0.035	7.4		11.2	3
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