Annual Environmental Report

2024



Newport

D0325-02

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1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2024 AER

This Annual Environmental Report has been prepared for D0325-02, Newport, 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.

Improvements to meet ELVs as specified in Schedule A and Improvements works may be required to increase the organic and hydraulic treatment capacity of the plant are currently on-going on site.

1.2 TREATMENT SUMMARY

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

• Newport (North Tipperary) WWTP with a Plant Capacity PE of 1900, 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
TPEFF2800D0325SW001	Newport (North Tipperary) WWTP	Treated	Non-Compliant	Ammonia-Total (as N) mg/l ortho-Phosphate (as P) - unspecified mg/l

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 NEWPORT (NORTH TIPPERARY) WWTP - TREATED DISCHARGE

2.1.1 INFLUENT MONITORING SUMMARY - NEWPORT (NORTH TIPPERARY) 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
Total Phosphorus (as P) mg/l	12	9.30	3.24
pH pH units	12	7.40	7.16
Suspended Solids mg/l	12	121	36
Ammonia-Total (as N) mg/l	12	69	24
COD-Cr mg/I	12	597	183
Total Nitrogen mg/l	12	67	26
BOD, 5 days with Inhibition (Carbonaceo mg/l	12	155	76
ortho-Phosphate (as P) - unspecified mg/l	12	6.17	2.29
Hydraulic Capacity	N/A	7277	1382

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 greater 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'.

2.1.2 EFFLUENT MONITORING SUMMARY - TPEFF2800D0325SW001

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)
COD-Cr mg/l	125	250	N/A	12	N/A	N/A	25	Pass
Suspended Solids mg/l	25	62.5	N/A	12	1	N/A	10	Pass
BOD, 5 days with Inhibition (Carbonaceo mg/I	25	50	N/A	12	N/A	N/A	5.75	Pass
pH pH units	9	9	N/A	12	N/A	N/A	7.34	Pass
Ammonia-Total (as N) mg/l	3	3.6	N/A	12	2	2	0.955	Fail
ortho- Phosphate (as P) - unspecified mg/l	1.5	1.8	N/A	12	4	3	1.14	Fail
Total Nitrogen mg/l	N/A	N/A	N/A	12	N/A	N/A	16	

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)
Total Phosphorus (as P) mg/l	N/A	N/A	N/A	12	N/A	N/A	1.42	

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):

Refer to Incident Section of Report

Significance of Results:

The WWTP is non compliant with the ELV's set in the Wastewater Discharge Licence. The impact on receiving waters is assessed further in Section 2.

2.1.3 AMBIENT MONITORING SUMMARY FOR THE TREATMENT PLANT DISCHARGE TPEFF2800D0325SW001

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	172490, 162161	RS25N020290	No	No	No	No	Good

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
Downstream	170251, 161858	RS25N020320	No	No	No	No	Good

The results for ambient results and / or additional monitoring data sets are included in the Appendix 7.1 - Ambient monitoring summary

Significance of Results:

The WWTP discharge was not compliant with the ELV's set in the wastewater discharge licence for the following: Ammonia-Total (as N) mg/l, ortho-Phosphate (as P) - unspecified mg/l.

The ambient monitoring results meet the required EQS. 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 BOD, Ammonia, Suspended Solids, Temperature, concentrations downstream of the effluent discharge is noted.

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 - NEWPORT (NORTH TIPPERARY) WWTP

2.1.4.1 Treatment Efficiency Report - Newport (North Tipperary) 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)	
cBOD	24389	2392	90	

Parameter	Influent mass loading (kg/year)	Effluent mass emission (kg/year)	Efficiency (% reduction of influent load)		
TN	8278	6549	21		
COD	58420	10474	82		
ТР	1034	589	43		
ss	11626	4170	64		

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

2.1.4.2 Treatment Capacity Report Summary - Newport (North Tipperary) 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.

Newport (North Tipperary) WWTP					
Peak Hydraulic Capacity (m³/day) - As Constructed					
DWF to the Treatment Plant (m³/day)	413				
Current Hydraulic Loading - annual max (m³/day)	7277				
Average Hydraulic loading to the Treatment Plant (m³/day)					
Organic Capacity (PE) - As Constructed					
Organic Capacity (PE) - Collected Load (peak week)Note1	2716				
Organic Capacity (PE) - Remaining	0				
Will the capacity be exceeded in the next three years? (Yes/No)	Yes				

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 - NEWPORT (NORTH TIPPERARY) 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	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
There were no relevant environme	ental complaints in 2024.		

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	Recurring (Y/N)	Closed (Y/N)
Abatement equipment off-line	Plant or equipment breakdown at WWTP	No	Yes
Abatement equipment off-line	Plant or equipment breakdown at WWTP	No	No
Breach of ELV	Plant or equipment calibration at WWTP	No	Yes
Abatement equipment off-line	Plant or equipment breakdown at WWTP	No	No

Incident Type	Cause	Recurring (Y/N)	Closed (Y/N)
Spillage	Inadequate Operational Procedures/Training	No	Yes
Abatement equipment off-line	Plant or equipment breakdown at WWTP	No	Yes
Abatement equipment off-line	Plant or equipment breakdown at WWTP	No	Yes
Breach of ELV	WWTP upgrade required to meet ELV	Yes	No

3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer				
Number of Incidents in 2024	8				
Number of Incidents reported to the EPA via EDEN in 2024					
Explanation of any discrepancies between the two numbers above					

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 2024 (No. of events)	Total volume discharged in 2024 (m3)	Monitoring Status
SW003	172342, 161987	Yes	Low Significance	Meeting	Unknown	Unknown	Not Monitored
SW002	171647, 161589	Yes	Low Significance	Meeting	Unknown	Unknown	Not Monitored
SW004	172356, 160723	Yes	Low Significance	Meeting	Unknown	Unknown	Not Monitored
SW006	-	Yes	TBC	Meeting	Unknown	Unknown	Monitored

The contents presented in this table include the most up to date information available at the time of writing. Any TBC SWO(s) were identified as part of the ongoing National SWO programme and will be updated in subsequent AER(s) once the information is confirmed.

SWO Summary	
How much wastewater discharge by metered SWOs during the year (m3)?	Unknown
Is each SWO identified as not meeting DoEHLG Guidance included in the Programme of Improvements?	N/A

SWO Summary	
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?	N/A

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
D0325-SIP:01	Improvements to meet ELVs as specified in Schedule A	С	31/12/2015	Yes	Work ongoing on-site	2025	
D0325-SIP:02	Improvements works may be required to increase the organic and hydraulic treatment capacity of the plant to ensure compliance with condition 1.7	С	31/12/2015	Yes	Work ongoing on-site	2025	

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			
No additional improvements planned at this time.								

4.2.3 SEWER INTEGRITY RISK ASSESSMENT

N/A

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	Included in this AER				
There is no Licence Specific Report Required in this AER Annual Review.						

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?	N/A
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	N/A
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	No

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

Signed: Date: 24/07/2025

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

Head of Environmental Regulation.

7 APPENDIX

Appendix

Appendix 7.1 - Ambient monitoring summary

Ambient Points

Ambient			Receiving V	WFD Status			
Monitoring Point from WWDL (or as agreed with EPA)	Irish Grid Reference	EPA Feature Coding Tool code	Bathing Water	Drinking Water	FWPM	Shellfish	
RS25N020290	172490, 162161	RS25N020290	No	No	No	No	Good
RS25N020320	170251, 161858	RS25N020320	No	No	No	No	Good

Ambient Impact Assessment Table

Parameter Name	Upstream	Upstream	Downstream	Downstream	EQS (Mean)	%EQS	
	Monitoring	Monitoring Point	Monitoring	Monitoring Point			
	Point Location	Annual Mean	Point Location	Annual Mean			
BOD mg/l	RS25N020290	0.707	RS25N020320	0.780	1.5	4.9	
Ortho-Phosphate (as P) mg/l	RS25N020290	0.015	RS25N020320	0.007	0.035	-22.9	
Ammonia (as N) mg/l	RS25N020290	0.034	RS25N020320	0.047	0.065	20.0	
pH pH units	RS25N020290	7.925	RS25N020320	7.925			
Dissolved Oxygen %saturation	RS25N020290	98.125	RS25N020320	97.900			
Dissolved oxygen mg/l	RS25N020290	10.490	RS25N020320	10.463			
Suspended Solids mg/l	RS25N020290	5.104	RS25N020320	5.854			
Temperature °C	RS25N020290	12.500	RS25N020320	12.575			

Ambient Data Tables

				Ammonia-Total (as N)	BOD - 5 days (Total)	Dissolved Oxygen	Dissolved Oxygen	ortho-Phosphate (as P) - unspecified	рН	Suspended Solids	Temperature
Monitored Enity	Station	Monitoring Point	Sample Date	mg/l	mg/l	% Saturation	mg/l	mg/l	pH Units	mg/l	°C
Newport (Tipperary)	RS25N020290	Uppstream	23/01/2024	0.063	<1	102	11.98	<0.01	7.8	13	7.8
Newport (Tipperary)	RS25N020290	Uppstream	11/04/2024	<0.015	<1	100.9	10.97	<0.01	8	3	11.8
Newport (Tipperary)	RS25N020290	Uppstream	18/07/2024	0.03	<1	97.2	9.22	<0.01	7.9	3	17.6
Newport (Tipperary)	RS25N020290	Uppstream	07/11/2024	0.031	<1	92.4	9.79	0.04	8	<2	12.8
			Mean	0.034	0.707	98.125	10.490	0.015	7.925	5.104	12.500

				Ammonia-Total (as N)	BOD - 5 days (Total)	Dissolved Oxygen	Dissolved Oxygen	ortho-Phosphate (as P) - unspecified	рН	Suspended Solids	Temperature
Monitored Enity	Station	Monitoring Point	Sample Date	mg/l	mg/l	% Saturation	mg/l	mg/l	pH Units	mg/l	°C
Newport (Tipperary)	RS25N020320	Downstream	23/01/2024	0.12	1	100.9	11.81	<0.01	7.7	12	8
Newport (Tipperary)	RS25N020320	Downstream	11/04/2024	<0.015	<1	101	11.04	<0.01	8	3	11.7
Newport (Tipperary)	RS25N020320	Downstream	18/07/2024	0.042	<1	97.5	9.23	<0.01	7.9	7	17.8
Newport (Tipperary)	RS25N020320	Downstream	07/11/2024	0.016	<1	92.2	9.77	<0.01	8.1	<2	12.8
		_	Mean	0.047	0.780	97.900	10.463	0.007	7.925	5.854	12.575

Note: Where the concentration in the result is less than the limit of detection (LOD), a value of LOD/sqrt(2) was used in calculating the mean and 95%ile concentrations.