

Annual Environmental Report

2023



Newport

D0224-01

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7.1 AMBIENT MONITORING SUMMARY

1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2023 AER

This Annual Environmental Report has been prepared for D0224-01, Newport, in Mayo 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.

1.2 TREATMENT SUMMARY

- Currently there is no treatment provided at Newport . Please refer to section 4 for details of the Programme of Improvements.

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
TPEFF2200D0224SW001	Newport (Mayo) Septic Tank 1	Untreated	Non-Compliant	N/A
TPEFF2200D0224SW002	NEWPORT (MAYO) SEPTIC TANK 2	Untreated	Non-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

2.1.1 EFFLUENT MONITORING SUMMARY - SW001

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)
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There is no Effluent data included in the AER.

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):

There is no treatment provided at Newport

Significance of Results:

There is no effluent monitoring carried out at the WWTP

2.1.2 AMBIENT MONITORING SUMMARY FOR THE UNTREATED DISCHARGE TPEFF2200D0224SW001

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	99510, 294141	RS32N010100	No	No	No	Yes	High
Downstream	97561, 294086	TW22005284NB2002	No	No	No	Yes	High
Downstream	96139, 293892	TW22005284NB2003	No	No	No	Yes	High

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

The ambient monitoring results do not meet the required EQS at the downstream monitoring location. 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 concentrations downstream of the effluent discharge is noted.

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

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

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

2.1.3 EFFLUENT MONITORING SUMMARY - SW002

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)
There is no Effluent data included in the AER.								

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):

There is no treatment provided at Newport

Significance of Results:

There is no effluent monitoring carried out at the WWTP

2.1.4 AMBIENT MONITORING SUMMARY FOR THE UNTREATED DISCHARGE TPEFF2200D0224SW002

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	99510, 294141	RS32N010100	No	No	No	Yes	High
Downstream	96139, 293892	TW22005284NB2003	No	No	No	Yes	High
Downstream	97561, 294086	TW22005284NB2002	No	No	No	Yes	High

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

The ambient monitoring results do not meet the required EQS at the downstream monitoring location. 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, and Ammonia concentrations downstream of the effluent discharge is noted.

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

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

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

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
1	Water Pollution	0	1

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)
Uncontrolled release	Broken Sewer Pipe	No	Yes

3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer
Number of Incidents in 2023	1
Number of Incidents reported to the EPA via EDEN in 2023	1
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 2023 (No. of events)	Total volume discharged in 2023 (m3)	Monitoring Status
SW005	98187,293726	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored
SW006	98371,293886	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored
SW007	99241,293998	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored

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 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?	
The SWO Assessment included the requirements of relevant of WWDL schedules?	Unknown

SWO Summary

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

Unknown

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
D0224-SIP:01	Improvement works to increase the organic and hydraulic treatment capacity of the plant to ensure compliance with Condition 1.7 of this licence.	C	31/12/2018	Yes	At Planning Stage	2030	

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

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	Included in this AER
D0224-01-Priority Substances Assessment	Yes	No
D0224-01-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?	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	N/A

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

Signed: Date: 04/03/2024

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

Newport Ambient Monitoring Results 2023

Table 1: Upstream Monitoring Results

Date	SS (mg/l)	TON (mg/l)	Salinity (PSU)	DO (mg/l)	Ammonia N (mg/l)	BOD (mg/l)	<i>E. coli</i> (MPN/100ml)	<i>Enterococci</i> (cfu/100ml)	<i>Faecal Coliforms</i> (cfu/100ml)
16/02/2023	<5	<1	<3	12.14	<0.05	1.2	38.3	10	94
30/05/2023	<2	<0.20	<0.1	8.36	<0.02	<1.0	32	6	39
04/07/2023	<4	<0.20	<0.1	9.45	<0.02	<1.0	61	11	49
11/10/2023	<2	<0.20	<0.1	10.12	<0.02	<1.0	70	8	51

Table 2: Downstream 1 Monitoring Results

Date	SS (mg/l)	TON (mg/l)	Salinity (PSU)	DO (mg/l)	Ammonia N (mg/l)	BOD (mg/l)	<i>E. coli</i> (MPN/100ml)	<i>Enterococci</i> (cfu/100ml)	<i>Faecal Coliforms</i> (cfu/100ml)
16/02/2023	<5	<1	<3	12.51	<0.05	2.6	145	45	>100
30/05/2023	5	<0.02	5.2	8.23	<0.035	2.1	231	35	397
04/07/2023	<4	0.04	2	9.76	<0.035	<1	74	435	152
11/10/2023	12	<0.02	15.7	9.26	<0.035	<1	219	194	140

Table 3: Downstream 2 Monitoring Results

Date	SS (mg/l)	TON (mg/l)	Salinity (PSU)	DO (mg/l)	Ammonia N (mg/l)	BOD (mg/l)	<i>E. coli</i> (MPN/100ml)	<i>Enterococci</i> (cfu/100ml)	<i>Faecal Coliforms</i> (cfu/100ml)
16/02/2023	22	<1	11.81	12.78	0.38	3.4	816.4	>100	>100
30/05/2023	14	<0.02	26.0	2.0	<0.035	2.0	1	308	1
04/07/2023	<4	<0.02	19.2	9.45	<0.035	1.5	172	98	178
11/10/2023	<4	0.16	0.3	9.17	<0.035	<1	1300	137	1120

Ambient Monitoring Point from WWDL (or as agreed with EPA)	Irish National Grid Reference (Easting, Northing)	EPA Feature Coding Tool Code	Receiving Waters Designation (Yes/No)				Current WFD Status	Mean (mg/l)	
			Bathing Water	Drinking Water	FWPM	Shellfish		BOD	Ammonia (as N)
Upstream Monitoring Point	099510, 294141	IE_WE_32N010 190					Unknown	1.100	0.030
Downstream 1 Monitoring Point	096139, 293892	IE_WE_350_02 00	No	No	No	No	High	1.900	0.040
<i>Difference</i>								0.800	0.010
EQS								1.300	0.040
% of EQS								61.538%	25.000%

Ambient Monitoring Point from WWDL (or as agreed with EPA)	Irish National Grid Reference (Easting, Northing)	EPA Feature Coding Tool Code	Receiving Waters Designation (Yes/No)				Current WFD Status	Mean (mg/l)	
			Bathing Water	Drinking Water	FWPM	Shellfish		BOD	Ammonia (as N)
Upstream Monitoring Point	099510, 294141	IE_WE_32N010 190					Unknown	1.100	0.030
Downstream 2 Monitoring Point	097561, 294086	IE_WE_350_02 00	No	No	No	No	High	2.300	0.150
<i>Difference</i>								1.200	0.120
EQS								1.300	0.040
% of EQS								92.308%	300.000%