Annual Environmental Report 2024



Letterkenny

D0009-01

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1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2024 AER

This Annual Environmental Report has been prepared for D0009-01, Letterkenny, in Donegal 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

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

• Letterkenny WWTP with a Plant Capacity PE of 40000, 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	
TPEFF0600D0009SW001	Letterkenny 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 LETTERKENNY WWTP - TREATED DISCHARGE

2.1.1 INFLUENT MONITORING SUMMARY - LETTERKENNY 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
Ammonia-Total (as N) mg/l	12	57	30
Suspended Solids mg/l	12	446	157
Total Phosphorus (as P) mg/l	12	13	4.63
BOD, 5 days with Inhibition (Carbonaceo mg/l	12	288	113
COD-Cr mg/l	12	501	222
pH pH units	12	8.20	7.66
Total Nitrogen mg/l	12	65	31
ortho-Phosphate (as P) - unspecified mg/l	12	6.84	2.87
Hydraulic Capacity	N/A	25270	10011

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 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 - TPEFF0600D0009SW001

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	17	Pass
Suspended Solids mg/l	35	87.5	N/A	12	N/A	N/A	10	Pass
Temperature °C	25	25	N/A	12	N/A	N/A	5.68	Pass
BOD, 5 days with Inhibition (Carbonaceo mg/l	25	50	N/A	12	N/A	N/A	1.64	Pass
Total Oxidised Nitrogen (as N) mg/l	15	18	N/A	12	N/A	N/A	7.54	Pass
pH pH units	9	9	N/A	12	N/A	N/A	7.00	Pass
Ammonia-Total (as N) mg/l	5	6	N/A	12	N/A	N/A	0.065	Pass

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)
ortho- Phosphate (as P) - unspecified mg/l	1	1.2	N/A	12	N/A	N/A	0.038	Pass
Nitrite (as N) mg/l	N/A	N/A	N/A	12	N/A	N/A	0.025	
Total Phosphorus (as P) mg/l	N/A	N/A	N/A	12	N/A	N/A	0.126	
Nitrate (as N) mg/l	N/A	N/A	N/A	12	N/A	N/A	7.56	
Nitrite (as NO2) mg/l	N/A	N/A	N/A	2	N/A	N/A	0.038	
Fats, Oils and Greases mg/l	N/A	N/A	N/A	1	N/A	N/A	3.54	
Conductivity @20°C µS/cm	N/A	N/A	N/A	12	N/A	N/A	525	
Nitrate (as NO3) mg/l	N/A	N/A	N/A	2	N/A	N/A	29	
Total Nitrogen mg/l	N/A	N/A	N/A	12	N/A	N/A	7.25	

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 Wastewater Treatment is compliant with the ELVs set in the Wastewater Discharge Licence.

2.1.3 AMBIENT MONITORING SUMMARY FOR THE TREATMENT PLANT DISCHARGE TPEFF0600D0009SW001

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	220354, 220354	TW06007073LS1018	No	No	No	No	Poor
Downstream	220398, 412589	TW06007073LS1004	No	No	No	Yes	Poor

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 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 BOD5 mg/l, Ortho-phosphate (as P) mg/l, Ammonia (as N) mg/l, 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 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.

2.1.4 OPERATIONAL PERFORMANCE SUMMARY - LETTERKENNY WWTP

2.1.4.1 Treatment Efficiency Report - Letterkenny 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)	
ss	587626 40560		93	
TN	115432	29148	75	
cBOD	422152	6597	98	
COD	831380	69865	92	
ТР	17322	505	97	

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

2.1.4.2 Treatment Capacity Report Summary - Letterkenny 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.

Letterkenny WWTP	
Peak Hydraulic Capacity (m³/day) - As Constructed	32400
DWF to the Treatment Plant (m³/day)	10800
Current Hydraulic Loading - annual max (m³/day)	25270
Average Hydraulic loading to the Treatment Plant (m³/day)	10010.64
Organic Capacity (PE) - As Constructed	40000
Organic Capacity (PE) - Collected Load (peak week)Note1	28448
Organic Capacity (PE) - Remaining	11552
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 - LETTERKENNY 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)
Landfill Leachate (delivered by tanker)	39305.71	Weight (Tonnes)	40000	100	Yes	Yes	Yes
Domestic /Septic Tank Sludge	49012.38	Weight (Tonnes)	40000	100	Yes	Yes	Yes
Waterworks Sludge	15782.2	Weight (Tonnes)	40000	100	Yes	Yes	Yes
Other	1563.32	Weight (Tonnes)	40000	100	Yes	Yes	Yes

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)
Uncontrolled release	Adverse Weather	No	Yes
Uncontrolled release	Inadequate Operational Procedures/Training	No	No

3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer
Number of Incidents in 2024	2
Number of Incidents reported to the EPA via EDEN in 2024	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 2024 (No. of events)	Total volume discharged in 2024 (m3)	Monitoring Status
SW018	218680, 411220	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Monitored
SW2	216298, 411296	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored
SW3	216678, 410864	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored
SW4	216700, 410885	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored
SW5	216691, 410886	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored
SW6	216691, 410886	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored

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
SW7	217342, 410951	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored
SW8	217142, 412030	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored
SW9	217173, 412123	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored
твс	217735, 411666	Yes	Medium Significance	Meeting Criteria	Unknown	Unknown	Not Monitored
твс	217328, 410871	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Monitored
твс	217741, 411223	Yes	Medium Significance	Not Meeting Criteria	Unknown	Unknown	Monitored
твс	217917, 411782	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored
твс	218204, 412118	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not Monitored
твс	-, -	Yes	Low Significance	Meeting Criteria	Unknown	Unknown	Not 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)?	57961
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?	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
D0009-SIP:01	Cessation of hydraulic bypass system at the WWTP	С	31/12/2012	Yes	Works Completed		
D0009-SIP:02	Installation of new outfall diffuser at primary discharge point	С	31/12/2012	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
D0009-SIP:03	Installation of new storm water storage tanks at Ballyraine	С	31/12/2012	Yes	Works Completed		
D0009-SIP:04	SW016 to cease, or be upgraded to SWO as per DoEHLG criteria	А	31/12/2013	Yes	Works Completed		
D0009-SIP:05	SW017 to cease, or be upgraded to SWOs as per DoEHLG criteria	А	31/12/2013	Yes	Works Completed		
D0009-SIP:06	SW002 to cease, or be upgraded to SWO as per DoEHLG criteria	А	31/12/2013	Yes	Works Completed		
D0009-SIP:07	SW003 to cease, or be upgraded to SWO as per DoEHLG criteria	А	31/12/2013	Yes	Works Completed		
D0009-SIP:08	SW004 to cease, or be upgraded to SWO as per DoEHLG criteria	А	31/12/2013	Yes	Works Completed		
D0009-SIP:09	SW005 to cease, or be upgraded to SWO as per DoEHLG criteria	А	31/12/2013	Yes	Works Completed		
D0009-SIP:10	SW006 to cease, or be upgraded to SWO as per DoEHLG criteria	А	31/12/2013	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
D0009-SIP:11	SW007 to cease, or be upgraded to SWO as per DoEHLG criteria	А	31/12/2013	Yes	Works Completed		
D0009-SIP:12	SW008 to cease, or be upgraded to SWO as per DoEHLG criteria	А	31/12/2013	Yes	Works Completed		
D0009-SIP:13	SW009 to cease, or be upgraded to SWO as per DoEHLG criteria	А	31/12/2013	Yes	Works Completed		
D0009-SIP:14	Upgrading of Storm Water Overflows to comply with DoEHLG criteria	С	31/12/2013	Yes	Works Completed		
D0009-SIP:15	WWTP upgrade and improvement works	С	31/12/2012	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
No additional improve	ments 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
D0009-01-Priority Substances Assessment	Yes	No
D0009-01-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	No

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

Signed: Date: 08/04/2025

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

Letterkenny WWTP

Ambient Monitoring Points from	Irish Grid Reference	EPA Feature Coding Tool code		Receiving Wa	ters Designation (Y/I	1)	WFD Status
WWDL (or as agreed by EPA)			Bathing Water	Drinking Water	FWPM	Shellfish	
Upstream Monitoring Station	220354E 220354N	TW06007073LS1018	No	No	No	No	Poor
Downstream Monitoring Station	220398E 412589N	TW06007073LS1004	No	No	No	Yes	Poor

Parameter Name	Upstream Monitoring Point	Upstream Monitoring Point	Downstream Monitoring Point	Downstream Monitoring Point	EQS (mean)	% EQS
	Location	Annual Mean	Location	Annual Mean		
cBOD mg/l	220354E 220354N	5	220398E 412589N	3	1.5	-133
Ortho-Phosphate (as P) mg/l	220354E 220354N	0.060	220398E 412589N	0.050	0.035	-28.5
Ammonia (as N) mg/l	220354E 220354N	0.73	220398E 412589N	0.715	0.065	-23

County	Licence Ref.	Agglomeration	Receiving Water	Monitoring Location	Monitoring Result Source	Date																																
							рН	Temperatur e (°C)	BOD mg/I	COD mg/l	SS mg/l	Total Nitrogen (as N) mg/l	Total Phosphorus (as P) mg/l	Ammonia (as N) mg/l	Orthophosp hate (as P) mg/I	Dissolved Oxygen mg/l	Dissolved Oxygen %Sat	Oxidised Nitrogen	Dissolved Inorganic Nitrogen (as N) mg/l	Faecal Coliforms cfu/100ml		Intestinal Enterococci cfu/100ml	Visual Inspection	SSRS	Water level	Conductivity	Chloride	Fluoride	Ammonium (NH4)	Major anions	Major Cations	Priority Sub	Metals & Organic Compounds	Salinity	Nitrate	Nitrite	Chlorophyll (ug/l)	Chlorophyll (mg/m3)
Donegal	D0009-01	Letterkenny	Swilly Estuary	Number of samples Required			4	1 0	4	0	0	4	0	4	4	4		4	4	0	0	0	4	- 0	4	4	0	0	0	0	0	0	0	0	0	0	0	0
Issued on	30/03/2010			Upstream: SW1u (E220354 N412312)																																	1	T
				Downstream:SW1d (E220398 N412589)																																		
				Letterkenny - Upstream	Email	10-Sep-24	8.1	NT	3	NT	NT	1.76		1.25	0.05		88.3	NT	1.76	NT	NT	NT												NT			1	NT
				Letterkenny - Downstream	Email	10-Sep-24	8.2	NT	3	NT	NT	1.58		1.19	0.04		88.6	NT	1.58	NT	NT	NT												NT			3.22	NT
				Letterkenny - Upstream	Email	19-Nov-24	7.4	NT	7	NT	NT	0.5		0.21	0.07		96.8	NT	0.5	NT	NT	NT												NT			1	NT
				Letterkenny - Downstream	Email	19-Nov-24	7.5	NT	3	NT	NT	0.5		0.24	0.06		96.5	NT	0.5	NT	NT	NT												NT			1.8	NT
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