

Annual Environmental Report

2019



Kilkee

D0078-01

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1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2019 AER

This Annual Environmental Report has been prepared for D0078-01, Kilkee, in Clare 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 Kilkee. 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
TPEFF0300D0078SW001	KILKEE WWTP	Untreated	The Kilkee agglomeration is not served by a wastewater treatment plant. There is no effluent data available. Monitoring is not undertaken as there is currently no treatment at this agglomeration.	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

2.1.1 INFLUENT & EFFLUENT MONITORING SUMMARY

There is no influent data available. Monitoring is not undertaken as there is currently no treatment at this agglomeration

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)
There is no Effluent data included in the AER. Monitoring is not undertaken as there is currently no treatment at this agglomeration								

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):

The agglomeration is not served by a wastewater treatment plant.

Significance of Results:

N/A

2.1.2 AMBIENT MONITORING SUMMARY FOR THE UNTREATED DISCHARGE TPEFF0300D0078SW001

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
Downstream	86242 159547	CW03004135SP1002	Yes	No	No	No	Unassigned
Downstream	86272, 159591	CW03004135SP1001	Yes	No	No	No	Unassigned

The results for ambient results and / or additional monitoring data sets are included in the **Appendix 7.1 - Ambient monitoring summary**. **NOTE: CW03004135SP1002 is the only location monitored in Kilkee Bay**

Significance of Results:

The agglomeration is not served by a WWTP.

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

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
8	Blocked Sewer	0	8

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)
Uncontrolled release	Network Infrastructure	1	No	Yes
Uncontrolled release	Plant or equipment breakdown at WWTP	1	No	No

3.2.2 SUMMARY OF OVERALL INCIDENTS

Question	Answer
Number of Incidents in 2019	2
Number of Incidents reported to the EPA via EDEN in 2019	2
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 2019 (No. of events)	Total volume discharged in 2019 (m3)	Monitoring Status
TBC	88288, 159550	No	Unknown	Meeting	Unknown	Unknown	Not Monitored
TBC	88288, 159550	No	Unknown	Meeting	Unknown	Unknown	Not 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?	N/A
The SWO Assessment included the requirements of relevant of WWDL schedules?	N/A
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 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/NAY)	Status of Works	Timeframe for Completing the Work	Comments
D0078-SIP:01	Construction and operation of a secondary WWTP.	C	31/12/2015	Yes	At Planning Stage	31/12/2023	

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

4.2.2 IMPROVEMENT PROGRAMME SUMMARY

Improvement Identifier	Improvement Description / or any Operational Improvements	Improvement Source	Expected Completion Date	Comments
There are no Improvements 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
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?	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: 05/03/2020

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

Ambient Monitoring Kilkee 2019

Parameter	Biological Oxygen Demand	Dissolved Oxygen % Saturation	Ammonia N	Dissolved Oxygen	pH	Temperature	Total Oxidised Nitrogen N	Faecal Coliforms	Enteroco/E Coli	Visual Inspection					
Max.	--	120	--	--	9	--	--	--	--	--					
Min.	--	80	--	--	6	--	--	--	--	--					
Test Method	--	--	--	--	--	--	--	--	--	--					
Station	Station Reference	Sample Reference	Sample Date	Analyst Conclusion	mg/l	% O2	mg/l	mg/l	pH units	Degrees C	mg/l	no./100mls	fu/100ml	no./100ml	Descriptive
Kilkee Bay 1	CW03004135SP1002	19-935256	28-Feb-2019	-	<1	101	0.014	11.3	8	9.2	0.108	6	< 1	1	Overcast, 9 degrees air temp, 8km/hr wind, light breeze
Kilkee Bay 1	CW03004135SP1002	19-938610	14-Mar-2019	-	<1	105	0.022	9.75	8.1	10.7	0.212				Windy 32km/hr winds from west; sample taken from surrogate site as weather was bad all week and site is very rough, high tide, cloudy, 11 degrees air temp. As it was a repeat sample it had to be take
Kilkee Bay 1	CW03004135SP1002	19-940521	25-Mar-2019	-	<1	101.1	0.012	9.42	8.1	11.2	0.145				9 degrees air temp, partly cloudy, sunny, 6km/hr winds light from North, High swells, high tide
Kilkee Bay 1	CW03004135SP1002	19-947434	17-Apr-2019	-	<1	128.2	0.013	11.7	8.3	11.2	0.056				Cloudy, moderate breeze 27km/hr from southeast; Dry weather and nothing unusual observed at site, tide was low.
Kilkee Bay 1	CW03004135SP1002	947434	17-Apr-2019	-	<1	128.2	0.013	11.7	8.3	11.2	0.056				Cloudy, moderate breeze 27km/h from Southeast. Dry weather and nothing unusual observed at site, tid
Kilkee Bay 1	CW03004135SP1002	19-957555	27-May-2019	-	<1	103.3	0.01	8.94	8.3	13.7	0.024	100	< 1	100	13C, 26km/hr moderate west wind, bad weather with large swells, surrogate site used for sampling
Kilkee Bay 1	CW03004135SP1002	965225	25-June-2019	-	<1	107.5	0.011	9.09	8.3	15.5	0.016				Dry, overcast, slight wind, nothing unusual at site 0
Kilkee Bay 1	CW03004135SP1002	972632	23-July-2019	-	<1	105.1	0.019	8.21	8.3	18.8	0.018				26km/h from south, sunny, windy, overcast, choppy - large swells
Kilkee Bay 1	CW03004135SP1002	979894	21-Aug-2019	-	<1	98.5	<0.01	8.19	8.2	15.8	0.022	50	50	60	Raining, windy, 100% cloud cover. 40km/h wind therefore had to take surrogate sample. Strong winds.
Kilkee Bay 1	CW03004135SP1002	990117	27-Sep-2019	-	1	96.9	0.01	7.89	8.2	15.4	0.024				14C, overcast, dry, 40-50km/h winds, therefore sample taken from pier due to large swells and waves.
Kilkee Bay 1	CW03004135SP1002	998588	24-Oct-2019	-	<1	98.6	0.01	10.2	7.9	13.2	0.07				Overcast, drizzling, 20-30km/h winds therefore sample taken from pier due to large swells and waves
Kilkee Bay 1	CW03004135SP1002	1003278	12-Nov-2019	-	<1	100.5	0.012	11	8.1	11	0.091	10	40	10	9 degrees, cloudy, 39km/hr winds, Moderate north west.
Kilkee Bay 1	CW03004135SP1002	1011316	10-Dec-2019	-	1	100.5	0.055	9.02	8	11	0.354				Weather: strong winds therefore took surrogate sample. Raining, dull, overcast. Well mixed- abundant

D0078-01		Kilkee		Receiving Waters Designation (Yes/No)				Mean (mg/l)		
Ambient Monitoring Point from WWDL (or as agreed with EPA)	Irish National Grid Reference (Easting, Northing)	EPA Feature Coding Tool code	Bathing Water	Drinking Water	FWPM	Shellfish	Current WFD Status	cBOD	o-Phosphate (as P)	Ammonia (as N)
Upstream Monitoring Point										
Downstream Monitoring Point	862425; 159547	CW03004135SP1002	Yes	No	No	Yes	Unassigned	1.000		0.017
<i>Difference</i>								1.000	0.000	0.050
EQS								2.600	0.075	0.140
% of EQS								38.462%	0.000%	12.143%