# Annual Environmental Report

2024



Cappoquin

D0272-01

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#### 1 EXECUTIVE SUMMARY AND INTRODUCTION TO THE 2024 AER

This Annual Environmental Report has been prepared for D0272-01, Cappoquin, in Waterford 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 major capital or operational changes undertaken.

#### 1.2 TREATMENT SUMMARY

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

• CAPPOQUIN WWTP with a Plant Capacity PE of 2278, 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 |  |
|---------------------------|-----------------|----------------|-------------------|--------------------------------|--|
| TPEFF3100D0272SW001       | CAPPOQUIN 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 CAPPOQUIN WWTP - TREATED DISCHARGE

#### 2.1.1 INFLUENT MONITORING SUMMARY - CAPPOQUIN 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 |
|---|-------------------|------------|-------------|
| ortho-Phosphate (as P) - unspecified mg/l           | 12                | 5.08       | 2.67        |
| BOD, 5 days with Inhibition (Carbonaceous BOD) mg/l | 12                | 410        | 142         |
| Total Phosphorus (as P) mg/l                        | 10                | 14         | 5.86        |
| Ammonia-Total (as N) mg/l                           | 12                | 42         | 25          |
| COD-Cr mg/l   | 12                | 1312       | 460         |
| Suspended Solids mg/l                               | 12                | 621        | 220         |
| pH pH units   | 12                | 7.40       | 7.22        |
| Hydraulic Capacity                                  | N/A               | 1327       | 426         |

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 - TPEFF3100D0272SW000

| Parameter  | WWDL<br>ELV<br>(Schedule<br>A) | ELV with<br>Condition 2<br>Interpretation<br>included Note 1 | Interim %<br>reduction from<br>influent<br>concentration | Number<br>of<br>sample<br>results | Number of exceedances | Number of exceedances with Condition 2 Interpretation included | Annual<br>Mean | Overall<br>Compliance<br>(Pass/Fail) |
|--|--------------------------------|--|--|-----------------------------------|-----------------------|--|----------------|--------------------------------------|
| COD-Cr mg/l  | 125                            | 250  | N/A  | 12                                | N/A                   | N/A  | 9.41           | Pass                                 |
| Suspended Solids mg/l  | 35                             | 87.5   | N/A  | 12                                | N/A                   | N/A  | 1.55           | Pass                                 |
| Total Oxidised<br>Nitrogen (as N)<br>mg/l                    | 35                             | 42   | N/A  | 12                                | N/A                   | N/A  | 8.06           | Pass                                 |
| BOD, 5 days with<br>Inhibition<br>(Carbonaceous<br>BOD) mg/l | 25                             | 50   | N/A  | 12                                | N/A                   | N/A  | 1.14           | Pass                                 |
| Ammonia-Total<br>(as N) mg/l                                 | 10                             | 12   | N/A  | 12                                | N/A                   | N/A  | 0.080          | Pass                                 |
| pH pH units  | 9                              | 9  | N/A  | 12                                | N/A                   | N/A  | 7.38           | Pass                                 |

| Parameter   | WWDL<br>ELV<br>(Schedule<br>A) | ELV with<br>Condition 2<br>Interpretation<br>included Note 1 | Interim %<br>reduction from<br>influent<br>concentration | Number<br>of<br>sample<br>results | Number of exceedances | Number of exceedances with Condition 2 Interpretation included | Annual<br>Mean | Overall<br>Compliance<br>(Pass/Fail) |
|---|--------------------------------|--|--|-----------------------------------|-----------------------|--|----------------|--------------------------------------|
| ortho-Phosphate<br>(as P) -<br>unspecified mg/l   | 5                              | 6  | N/A  | 12                                | N/A                   | N/A  | 1.45           | Pass                                 |
| Dissolved<br>Inorganic<br>Nitrogen (as N)<br>mg/l | N/A                            | N/A  | N/A  | 12                                | N/A                   | N/A  | 8.11           |                                      |
| Faecal coliforms no./100mls                       | N/A                            | N/A  | N/A  | 8                                 | N/A                   | N/A  | 424            |                                      |
| Total Phosphorus<br>(as P) mg/l                   | N/A                            | N/A  | N/A  | 10                                | N/A                   | N/A  | 1.82           |                                      |

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 WWTP is compliant with the ELV's set in the Wastewater Discharge Licence.

# 2.1.3 AMBIENT MONITORING SUMMARY FOR THE TREATMENT PLANT DISCHARGE TPEFF3100D0272SW000

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<br>Reference | River Station<br>Code | Bathing<br>Water | Drinking<br>Water | FWPM | Shellfish | WFD Ecological<br>Status |
|--|-------------------------|-----------------------|------------------|-------------------|------|-----------|--------------------------|
| Upstream   | 209929, 98680           | RS18B022900           | No               | No                | No   | No        | Moderate                 |
| Downstream   | 209525, 92588           | RS18B023000           | No               | No                | No   | No        | Moderate                 |

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<br>Point Location | Upstream Monitoring<br>Point Annual Mean | Downstream<br>Monitoring Point<br>Location | Downstream<br>Monitoring Point<br>Annual Mean | EQS   | % of<br>EQS |
|--|---------------------------------------|--|--|---|-------|-------------|
| Ammonia-Total (as N) mg/l                              | RS18B022900                           | 0.029                                    | RS18B023000                                | 0.155   | 0.040 | 314.6       |
| ortho-Phosphate (as P) -<br>unspecified mg/l           | RS18B022900                           | 0.012                                    | RS18B023000                                | 0.010   | 0.025 | -5.4        |
| BOD, 5 days with Inhibition<br>(Carbonaceous BOD) mg/l | RS18B022900                           | 1.17                                     | RS18B023000                                | 0.707   | N/A   |             |
| Total Nitrogen mg/l                                    | RS18B022900                           | 2.90                                     | RS18B023000                                | 1.95  | N/A   |             |
| Nitrate (as N) mg/l                                    | RS18B022900                           | 2.33                                     | RS18B023000                                | 1.20  | N/A   |             |

| Parameter Name                      | Upstream Monitoring<br>Point Location | Upstream Monitoring<br>Point Annual Mean | Downstream<br>Monitoring Point<br>Location | Downstream<br>Monitoring Point<br>Annual Mean | EQS | % of<br>EQS |
|-------------------------------------|---------------------------------------|--|--|---|-----|-------------|
| Temperature °C                      | RS18B022900                           | 13                                       | RS18B023000                                | 13  | N/A |             |
| Dissolved Oxygen % O2               | RS18B022900                           | 92                                       | RS18B023000                                | 96  | N/A |             |
| Total Oxidised Nitrogen (as N) mg/l | RS18B022900                           | 2.33                                     | RS18B023000                                | 1.20  | N/A |             |
| pH pH units                         | RS18B022900                           | 7.76                                     | RS18B023000                                | 7.80  | N/A |             |
| Nitrite (as N) mg/l                 | RS18B022900                           | 0.042                                    | RS18B023000                                | 0.042   | N/A |             |

#### **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 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 Ammonia, Dissolved Oxygen % O2, pH, 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 - CAPPOQUIN WWTP

#### 2.1.4.1 Treatment Efficiency Report - CAPPOQUIN 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) |  |
|-----------|---------------------------------|----------------------------------|---|--|
| COD       | 68534                           | 1467                             | 98  |  |
| cBOD      | 21214                           | 177                              | 99  |  |
| TN        | N/A                             | N/A                              | N/A                                       |  |
| SS        | 32819                           | 241                              | 99  |  |
| ТР        | 810                             | 277                              | 66  |  |

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

#### 2.1.4.2 Treatment Capacity Report Summary - CAPPOQUIN 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.

| CAPPOQUIN WWTP                                    |      |  |  |  |
|---|------|--|--|--|
| Peak Hydraulic Capacity (m³/day) - As Constructed | 2278 |  |  |  |
| DWF to the Treatment Plant (m³/day)               |      |  |  |  |
| Current Hydraulic Loading - annual max (m³/day)   | 1327 |  |  |  |

| CAPPOQUIN WWTP  |     |  |  |  |  |
|---|-----|--|--|--|--|
| Average Hydraulic loading to the Treatment Plant (m³/day)       | 426 |  |  |  |  |
| Organic Capacity (PE) - As Constructed                          |     |  |  |  |  |
| Organic Capacity (PE) - Collected Load (peak week)Note1         |     |  |  |  |  |
| 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 - CAPPOQUIN WWTP

'Other inputs' to the waste water treatment plant are summarised in table below

| Input type           | Quantity | Unit           | P.E. | % of load<br>to WWTP | Included in<br>Influent<br>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) |
|----------------------|----------|----------------|------|----------------------|--|---|--|
| Waterworks<br>Sludge | 2250     | Volume<br>(m3) | 2278 | 1.2                  | No   | No  | 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 environmental 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 | SWO exceptional rainfall and overflow expected | No              | Yes          |

#### **3.2.2 SUMMARY OF OVERALL INCIDENTS**

| Question   | Answer |
|--|--------|
| Number of Incidents in 2024                                    | 1      |
| Number of Incidents reported to the EPA via EDEN in 2024       | 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<br>for Storm Water<br>Overflow (chamber)<br>where applicable | Irish Grid<br>Ref.<br>(outfall) | Included in<br>Schedule of<br>the WWDL | Significance of the overflow(High / Medium / Low) | Assessed<br>against<br>DoEHLG<br>Criteria | No. of times<br>activated in<br>2024 (No. of<br>events) | Total volume<br>discharged in<br>2024 (m3) | Monitoring<br>Status |
|---|---------------------------------|--|---|---|---|--|----------------------|
| SWO05   | 210065,<br>99409                | Yes Low Significance                   |   | Meeting<br>Criteria                       | Unknown   | Unknown                                    | Not<br>Monitored     |
| SWO06   | 210222,<br>98168                | Yes                                    | Low Significance                                  | Meeting<br>Criteria                       | Unknown   | 8351                                       | 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)?                                   | 8351 |
| 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?                           | 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<br>Improvement<br>Programmes (under<br>Schedule A and C of<br>WWDL) | Description   | Licence<br>Schedule | Licence<br>Completion<br>Date | Date<br>Expired?<br>(N/NA/Y) | Status of<br>Works | Timeframe for<br>Completing<br>the Work | Comments |
|---|---|---------------------|-------------------------------|------------------------------|--------------------|---|----------|
| D0272-SIP:01  | Provision of new secondary waste water treatment plant and ancillary works                            | С                   | 30/06/2015                    | Yes                          | Works<br>Completed |   |          |
| D0272-SIP:02  | Provision of Twig Lane Pumping Station, storm water detention tank and outfall associated with SW005. | С                   | 30/06/2015                    | Yes                          | Works<br>Completed |   |          |
| D0272-SIP:03  | Provision of upgrade collection system for Cappoquin  | С                   | 30/06/2015                    | Yes                          | Works<br>Completed |   |          |
| D0272-SIP:04  | SW000 Primary Discharge<br>Point to be Discontinued   | С                   | 30/06/2015                    | Yes                          | Works<br>Completed |   |          |
| D0272-SIP:05  | SW002 Secondary Discharge<br>Point to be Discontinued   | С                   | 30/06/2015                    | Yes                          | Works<br>Completed |   |          |

| Specified<br>Improvement<br>Programmes (under<br>Schedule A and C of<br>WWDL) | Description   | Licence<br>Schedule | Licence<br>Completion<br>Date | Date<br>Expired?<br>(N/NA/Y) | Status of<br>Works | Timeframe for<br>Completing<br>the Work | Comments   |
|---|---|---------------------|-------------------------------|------------------------------|--------------------|---|--|
| D0272-SIP:06  | SW003 Secondary Discharge<br>Point to be discontinued   | С                   | 30/06/2015                    | Yes                          | Works<br>Completed |   |  |
| D0272-SIP:07  | SW004 Secondary Discharge<br>Point to be discontinued   | С                   | 30/06/2015                    | Yes                          | Not Started        |   | TA submitted in<br>2020 to remove<br>SW004 from<br>WWDA as not an<br>IW asset. |
| D0272-SIP:08  | SW005 Provision of storm water overflows to comply with the criteria outlined in the DoECLG 'Procedures and Criteria in relation to Storm Water Overflows' (1995).                | С                   | 30/06/2015                    | Yes                          | Works<br>Completed |   |  |
| D0272-SIP:09  | SW006 Provision of storm<br>water overflows to comply with<br>the criteria outlined in the<br>DoECLG 'Procedures and<br>Criteria in relation to Storm<br>Water Overflows' (1995). | С                   | 30/06/2015                    | Yes                          | Works<br>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<br>Identifier | Improvement Description / or any Operational Improvements | Improvement<br>Source | Expected Completion<br>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 |
|---|---------------------|----------------------|
| D0272-01-Priority Substances 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?  | Yes                                    |
| List reason e.g. additional SWO identified   | To remove SW004 from the licence       |
| 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   | Yes                                    |
| List reason e.g. changes to monitoring requirements  | Ambient Monitoring<br>Location Changes |
| Have these processes commenced?  | Yes                                    |
| 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: 28/04/2025

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**

There are no Appendices included